

Asian Gypsy Moth

2018 California Update



Plant Health and Pest Prevention Services
California Department of Food and Agriculture





Pest Exclusion Exterior Program



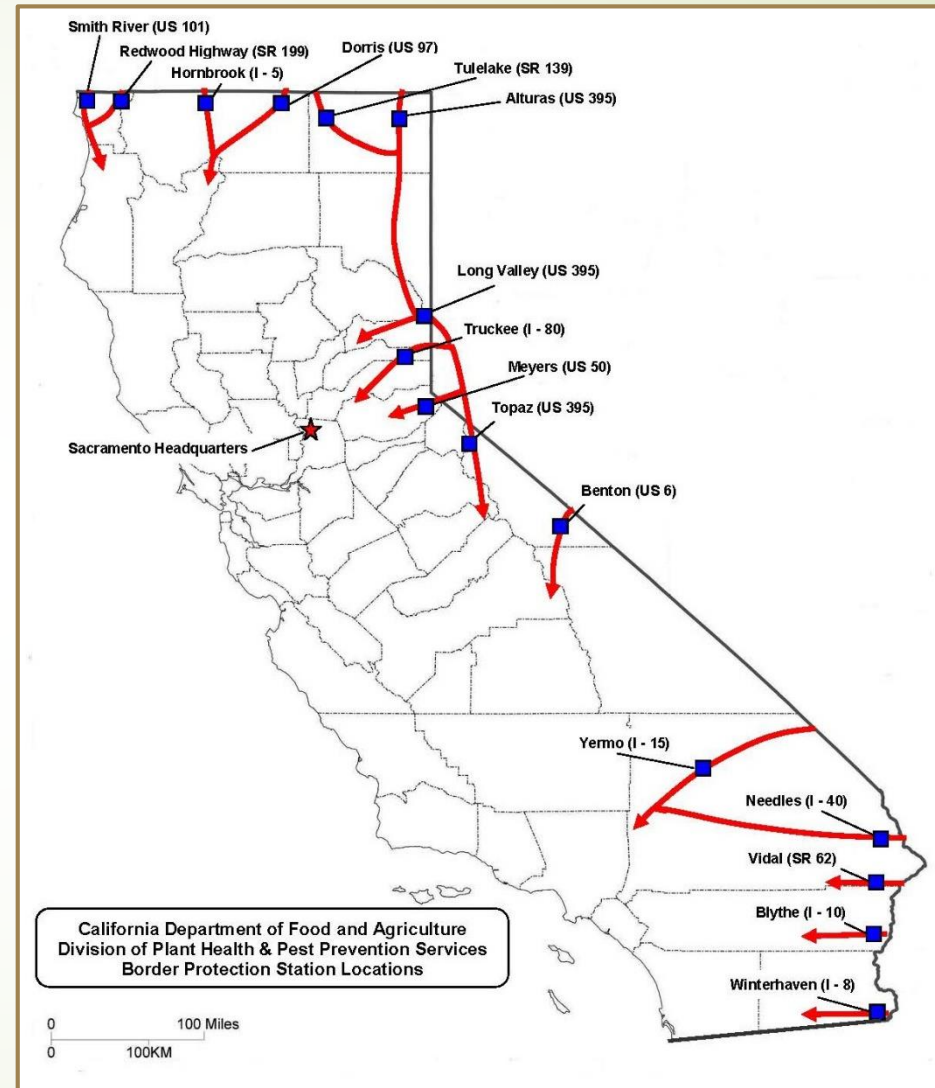
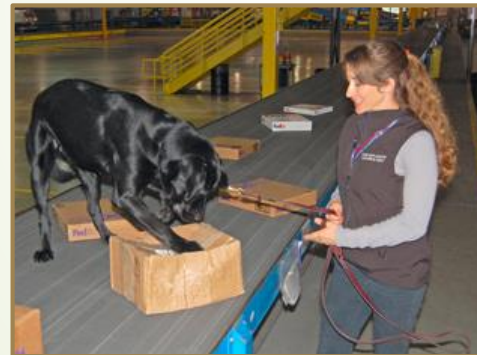
- Operates 16 border inspection stations



- Ensures vehicles entering California are in compliance with quarantine laws and regulations

Pest Exclusion

- Border Stations
- Dog Teams
- Aircraft Inspections



Gypsy Moth Detection Trapping

➤ Statewide Trapping

- 2 traps/sq. mile in all urban and rural residential areas throughout state
- At least one trap per high-hazard site such as campgrounds, recreational areas, mobile home and RV parks, state parks, federal parks and monuments, moving companies, etc.
- ~ 20,000 traps total

➤ Asian Gypsy Moth Trapping

- 10 deep-water port locations statewide identified as high-risk points of entry for Asian gypsy moth
- A 1-mile radius around each port is trapped at 25 traps/sq. mile
- An additional 5 traps/sq. mile placed along waterways and railways in the vicinity of major transportation hubs receiving foreign containers
- ~ 2,000 traps total

California Gypsy Moth Detections 2010-2018

Year	EGM	AGM
2018	1	1
2017	1	1
2016	9	0
2015	9	0
2014	5	0
2013	2	0
2012	0	1
2011	1	0
2010	1	0

EGM Delimitation Trapping

GYPSY MOTH DELIMITATION SURVEY

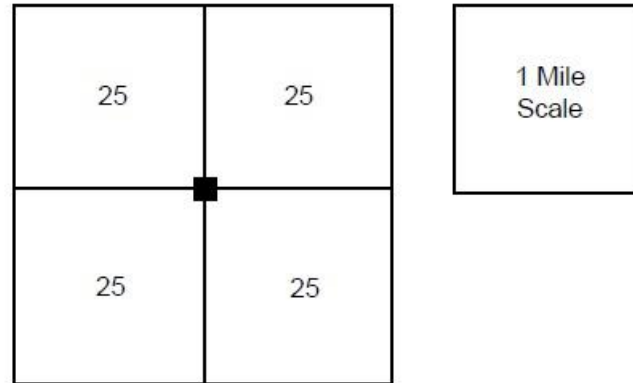


FIGURE 2.

AGM Delimitation Trapping

25	25	25	25	25	25	25	25	25	25
25	25	25	25	25	25	25	25	25	25
25	25	25	25	25	25	25	25	25	25
25	25	25	49	49	49	49	25	25	25
25	25	25	49	49	49	49	25	25	25
25	25	25	49	49	49	49	25	25	25
25	25	25	49	49	49	49	25	25	25
25	25	25	25	25	25	25	25	25	25
25	25	25	25	25	25	25	25	25	25
25	25	25	25	25	25	25	25	25	25

Figure 17. Precision delimiting grid showing trap densities per sq. mile

Gypsy Moth 2017

Santa Cruz County

Santa Cruz

- 1 AGM

Soquel

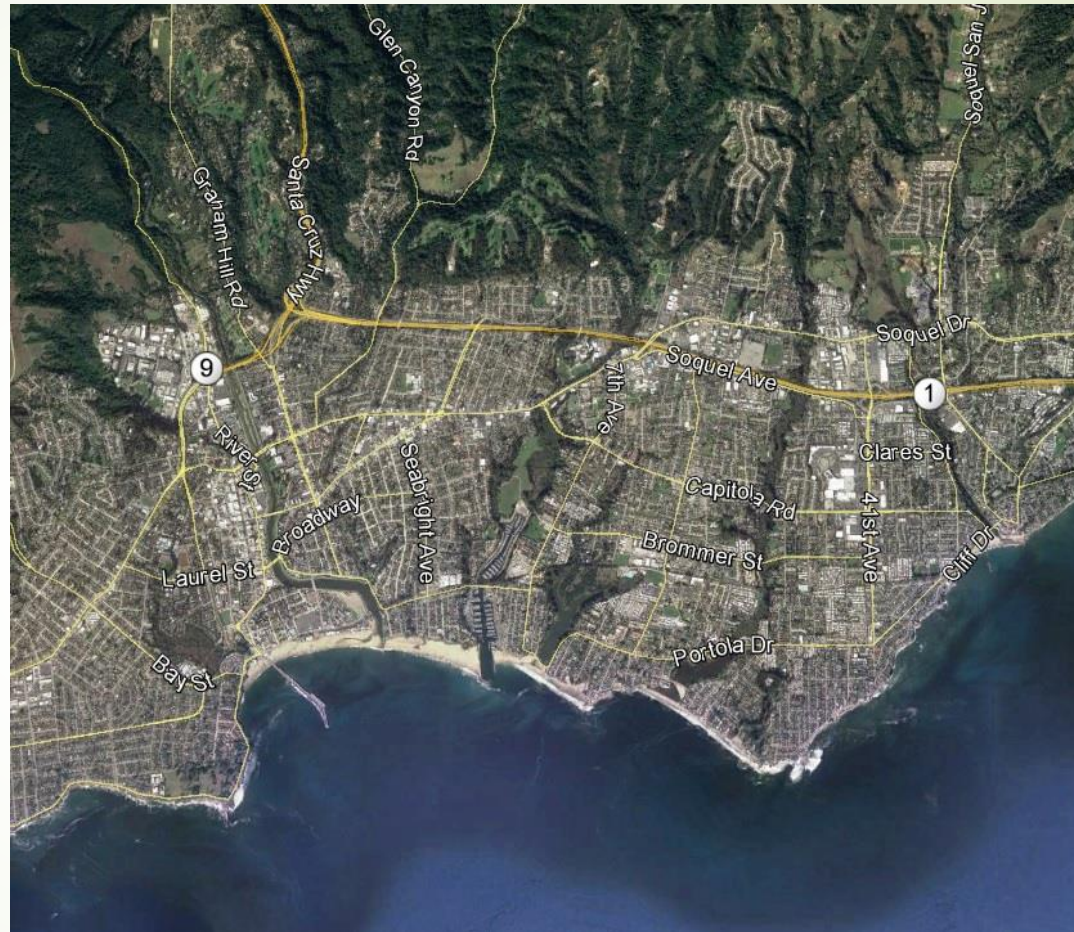
- 1 EGM

Gypsy Moth 2018

Santa Cruz County

Santa Cruz

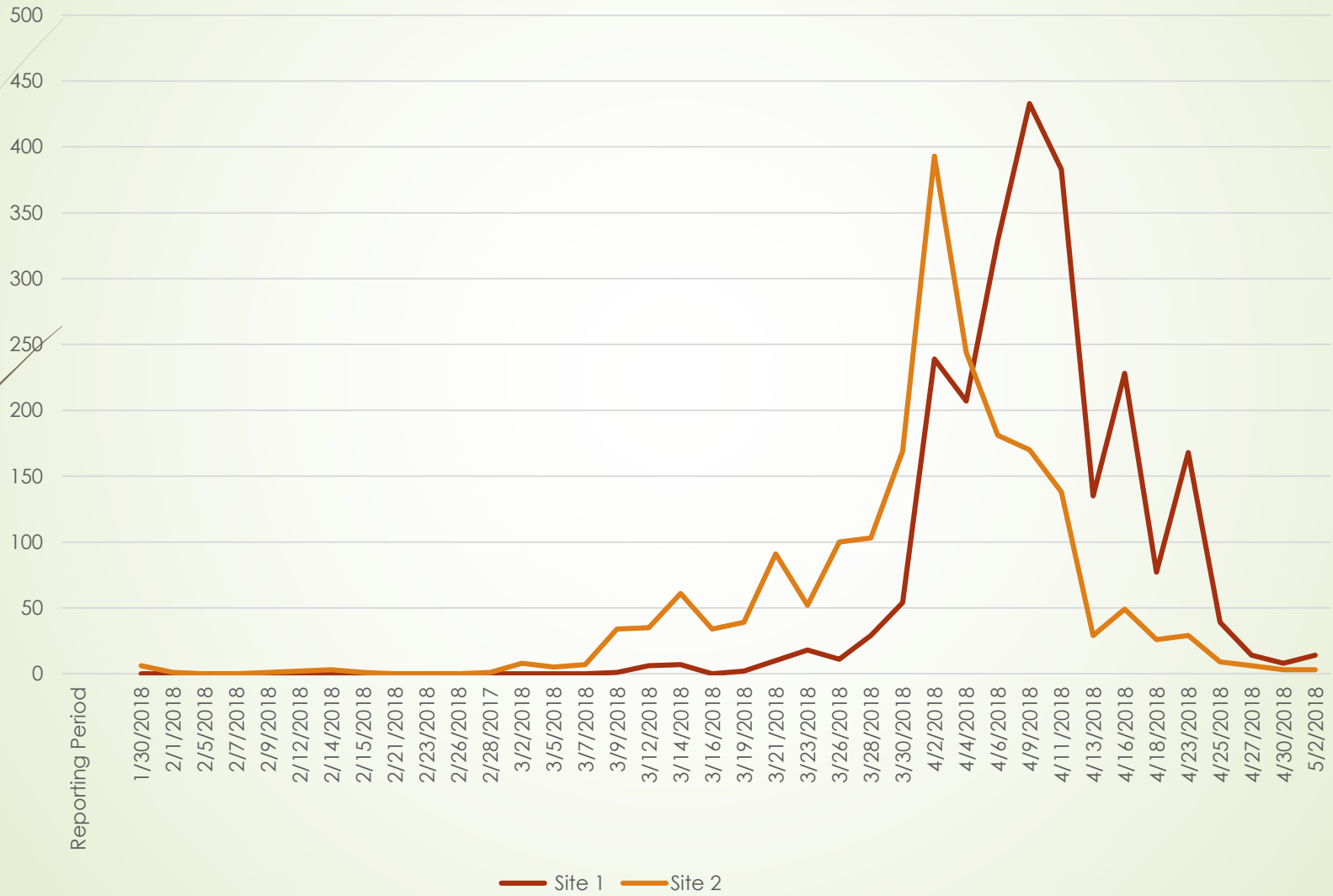
- 1 AGM
- ~1/3 mile from 2017 AGM detection




Egg Masses to Determine Hatch Dates 2017-2018



Larval Emergence





1/30/2018	0	6
2/1/2018	0	1
2/5/2018	0	0
2/7/2018	0	0
2/9/2018	0	1
2/12/2018	0	2
2/14/2018	0	3
2/15/2018	0	1
2/21/2018	0	0
2/23/2018	0	0
2/26/2018	0	0
2/28/2017	0	1
3/2/2018	0	8
3/5/2018	0	5
3/7/2018	0	7
3/9/2018	1	34
3/12/2018	6	35
3/14/2018	7	61
3/16/2018	0	34
3/19/2018	2	39
3/21/2018	10	91
3/23/2018	18	52
3/26/2018	11	100
3/28/2018	29	103
3/30/2018	54	169
4/2/2018	239	393
4/4/2018	207	244
4/6/2018	329	181
4/9/2018	433	170
4/11/2018	383	138
4/13/2018	135	29
4/16/2018	228	49
4/18/2018	77	26
4/23/2018	168	29
4/25/2018	39	9
4/27/2018	14	6
4/30/2018	8	3
5/2/2018	14	3
Total	2412	2033



Proposed EAB deregulation

- CDFA concurs with the USDA proposal to deregulate emerald ash borer (EAB). Despite regulations that have been in place since 2003, this beetle has continued to spread and is now found in 31 states. Federal economic resources would be better spent on mitigation of the impact of this pest, including biological control.
- Although California has intercepted dead EAB in commercial cargo aircraft, the beetle has never been found in, and is not considered to be present in the environment of the state.



Proposed EAB deregulation

- Known hosts of EAB include ash (*Fraxinus species*), white fringetree (*Chionanthus virginicus*), and olive (*Olea europaea*). EAB can complete development on all of these. California has five native species of ash that could be significantly affected by the introduction of EAB to California. These include California ash (*Fraxinus dipetala*), single leaved ash (*Fraxinus anomala*), Oregon ash (*Fraxinus latifolia*), chaparral ash (*Fraxinus parryi*), and Arizona ash (*Fraxinus velutina*). These native trees are important components of California ecosystems that provide wildlife habitat, bank stabilization, and other valuable services. The destruction of these trees in California ecosystems is expected to have significant environmental impacts.



Proposed EAB deregulation

- ▶ Olive is both an important crop and popular ornamental in California. The 2015 value of the state's olive crop was \$160 million. The loss of olive trees would have a severe economic impact.
- ▶ Due to the potential environmental and economic impacts that EAB poses to California, CDFA intends to promulgate a state exterior quarantine for this pest. This will allow California to protect its agriculture and environment from the risk of introduction of EAB posed by a variety of pathways, including bulk shipments of ash logs that transit California for export.

The End

HOW YOU CAN HELP – REPORT!



1-800-491-1899

<http://www.cdfa.ca.gov/phpps/ReportaPest/>