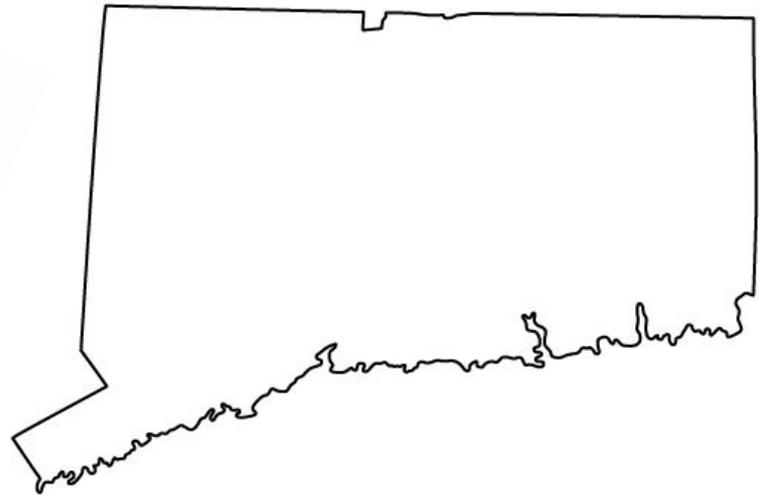
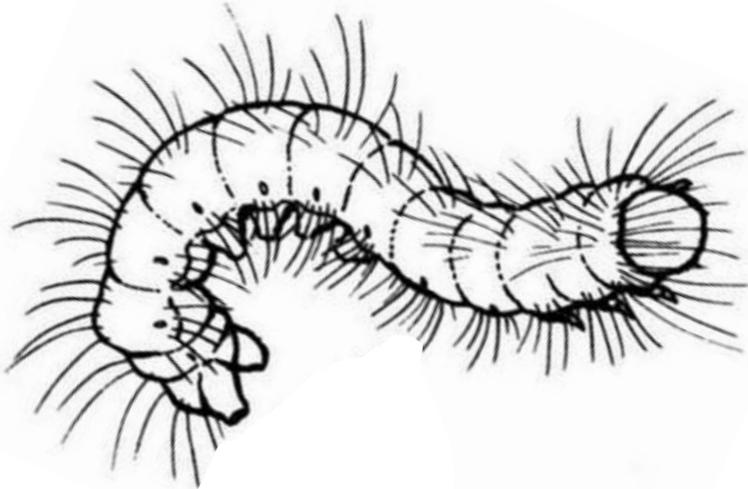
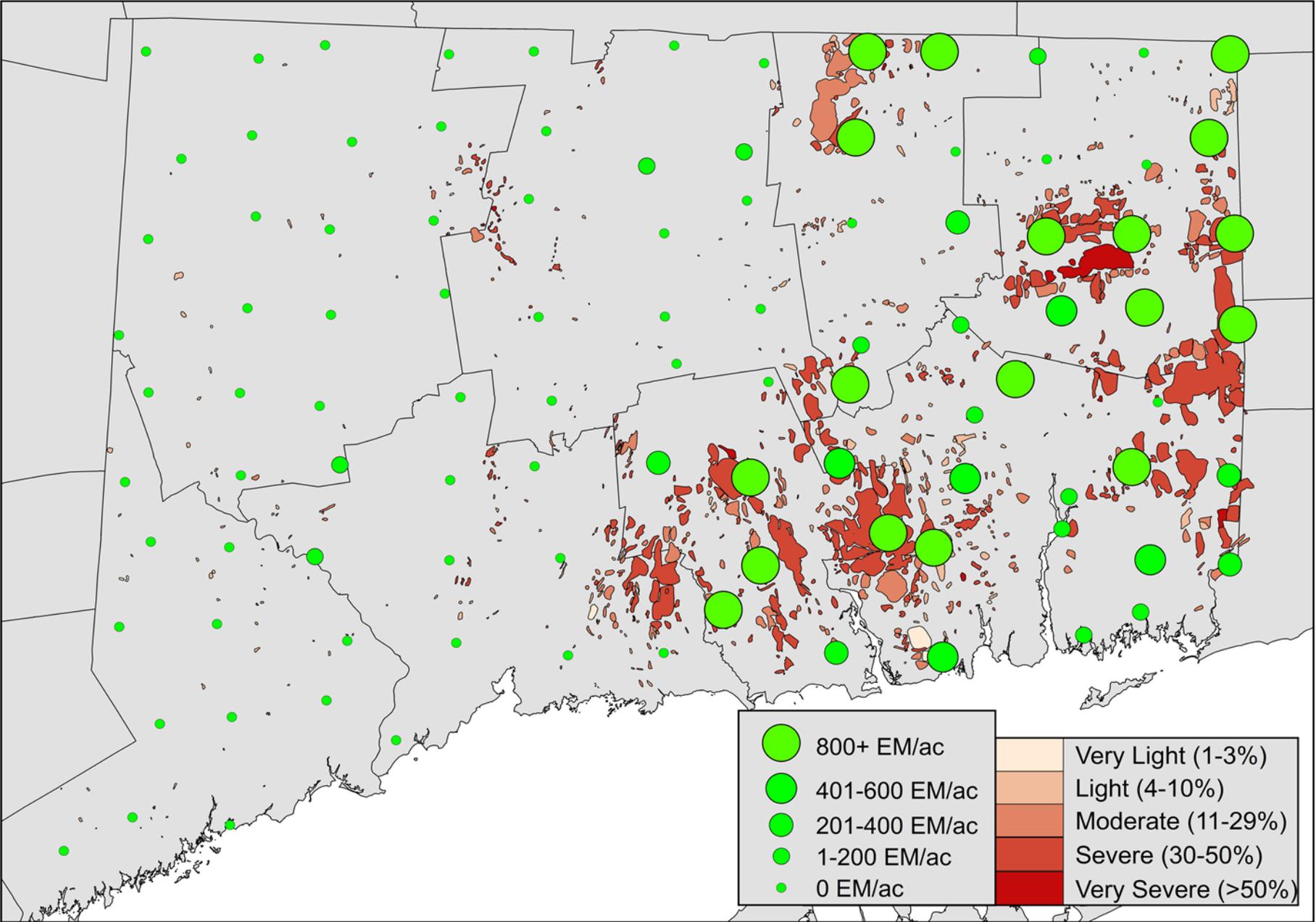


2019: Expectations for Gypsy Moth (and some other stuff)



2016-2017 Gypsy Moth Egg Mass 7-Mile Grid Survey Results























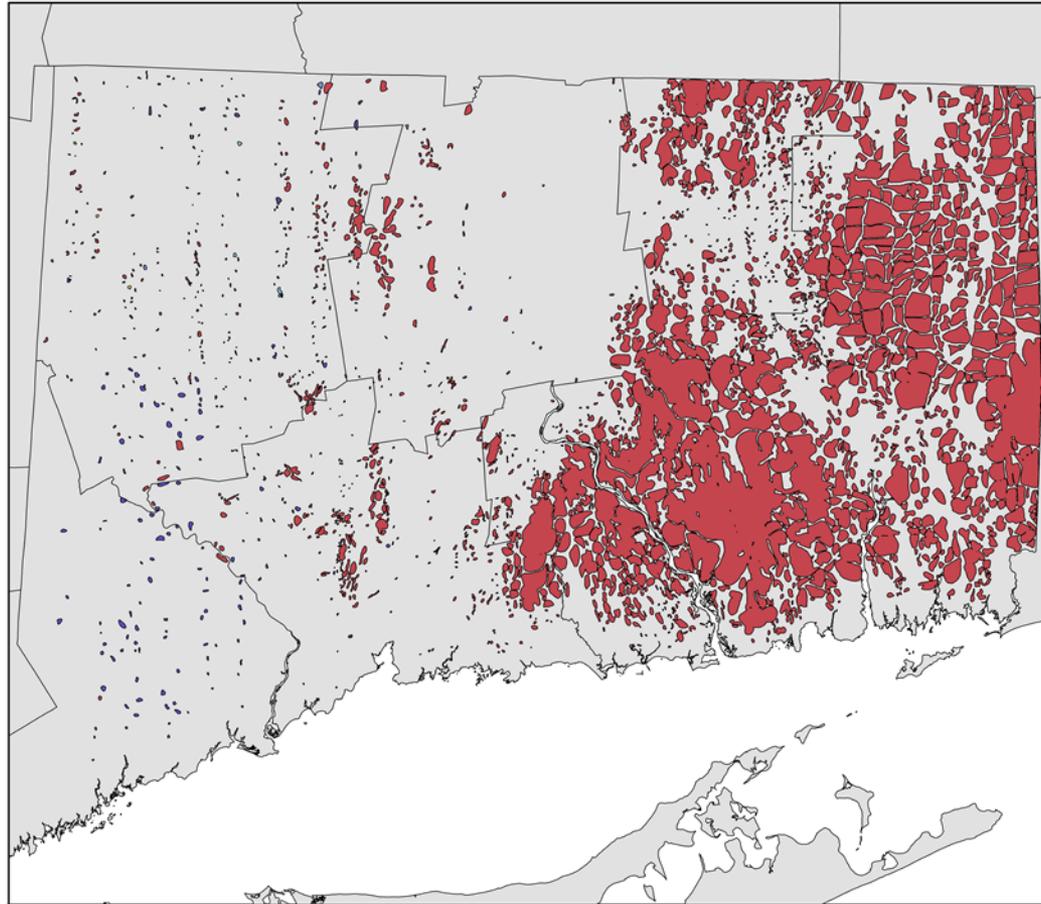
**What the forest SHOULD look like
Bluff Point Coastal Reserve, Groton CT**



**What the forest DID look like
Green Fall Pond, Voluntown, CT**



2017 Connecticut ADS Data



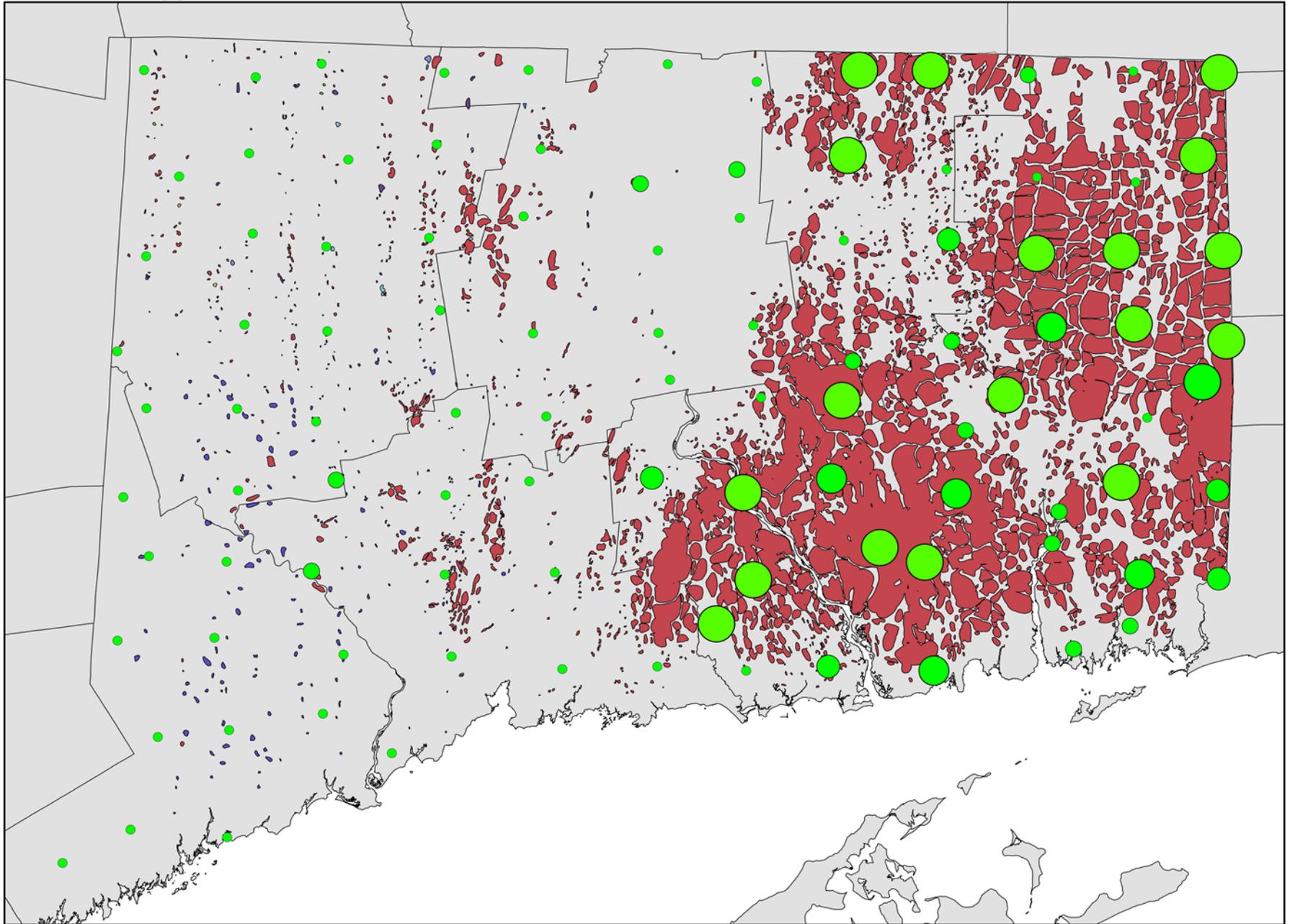
Legend

2017 CT ADS Data

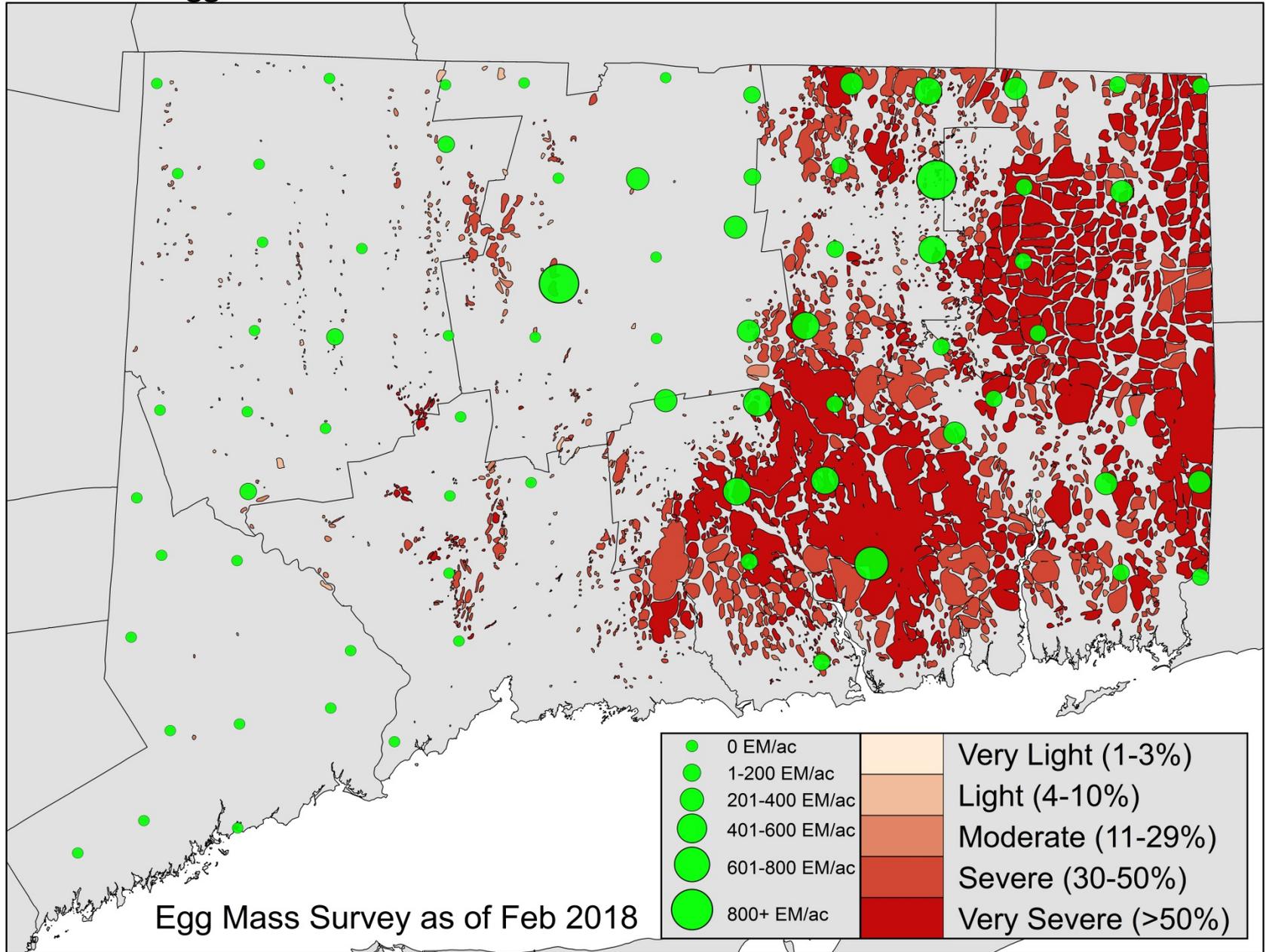
	Gypsy Moth		Logging Damage
	Emerald Ash Borer		Needlecast
	Elongate Hemlock Scale		Unknown
	Hemlock Woolly Adelgid		White Pine Needle Damage
	Locust Leafminer		

County	Acres	Percentage
Fairfield	545.64	0.14
Hartford	49,324.62	10.30
Litchfield	15,240.08	2.50
Middlesex	181,650.77	64.60
New Haven	41,558.15	10.70
New London	402,465.93	94.50
Tolland	160,146.39	60.00
Windham	324,072.88	97.00
total	1,175,004.28	37.00

2016/2017 Egg Masses & 2017 Defoliation



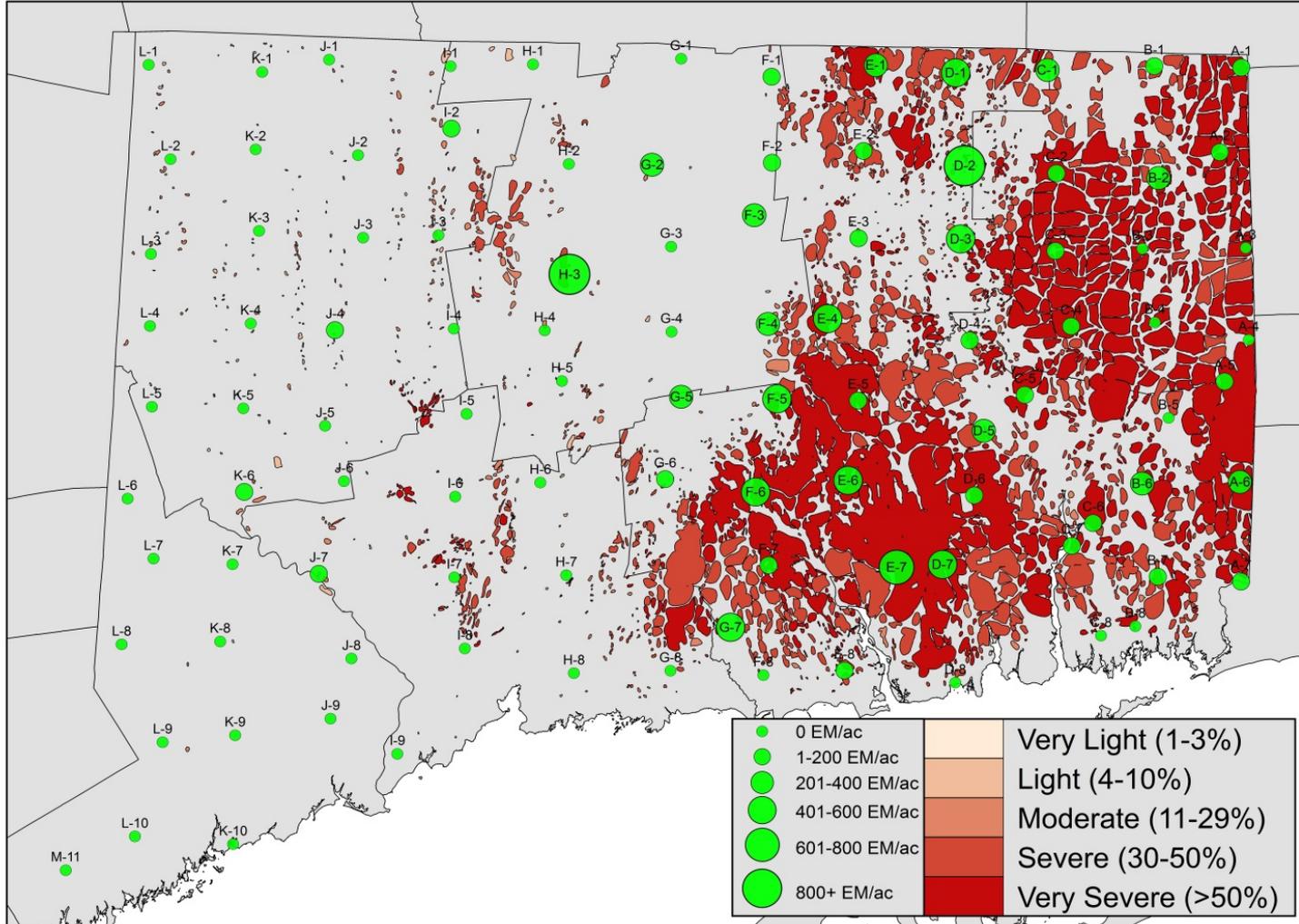
2017-2018 Egg Mass & 2017 defoliation



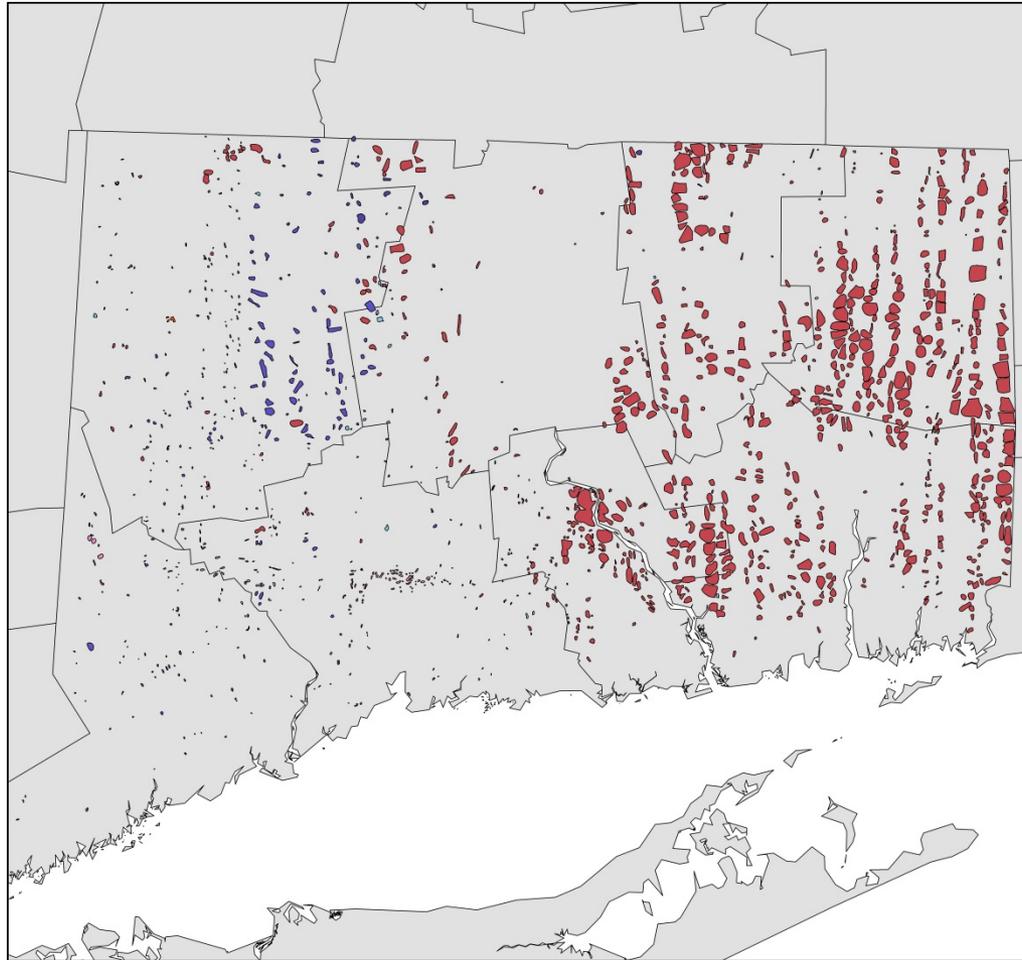
Gypsy moth:

- **2017: 1,175,000 acres defoliated/severely defoliated**
- **Moderate number of egg masses, due to fungal infection of larvae**
- **2018: 287,000 acres affected; 28,000 acres mortality**

2017-2018 Gypsy Moth Egg Mass 7-Mile Grid Survey Results



2018 Connecticut ADS Data

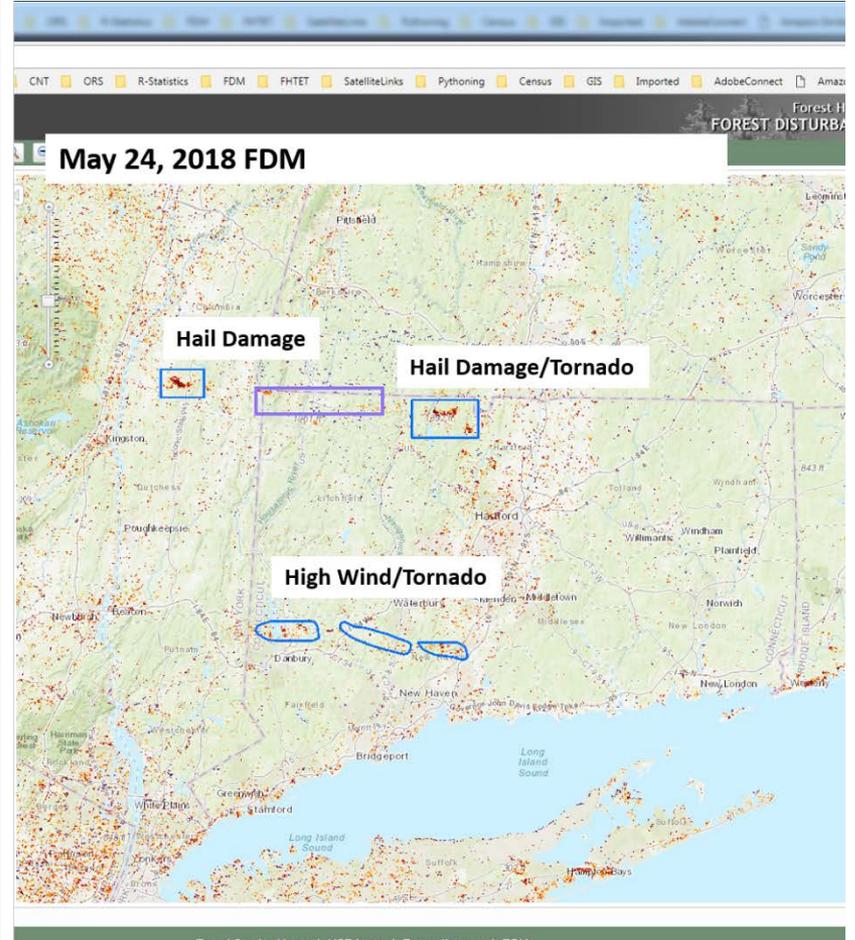
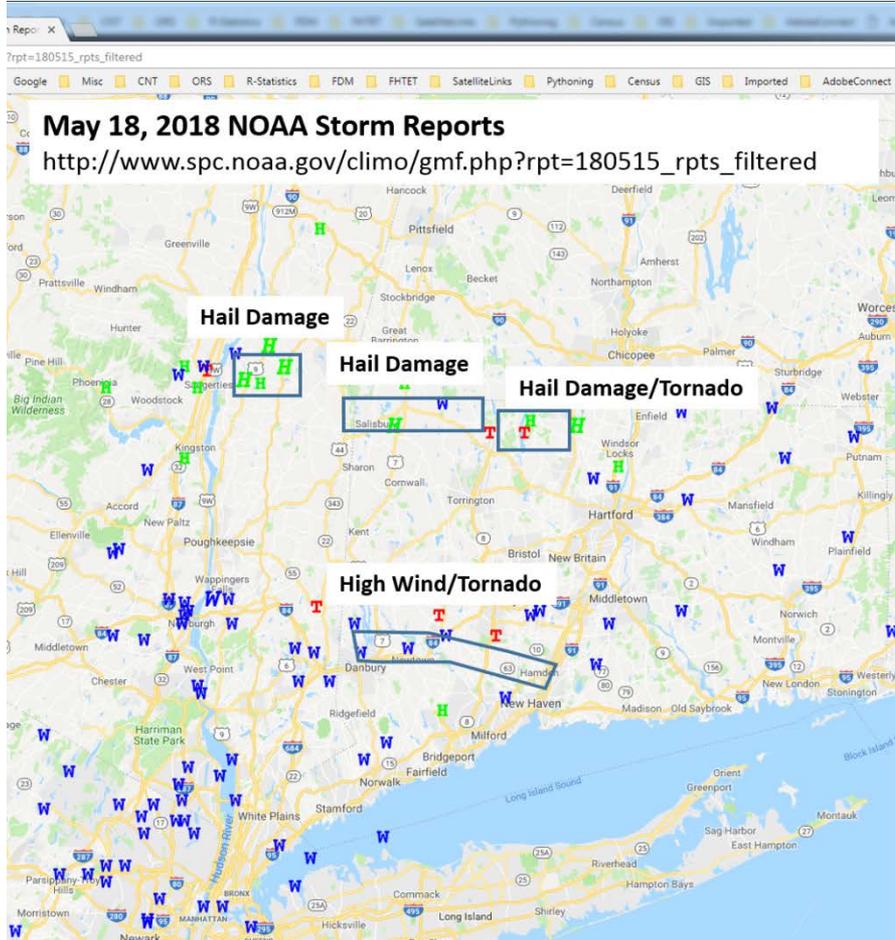


Legend

 Gypsy Moth	 Elongate Hemlock Scale	 Imported Willow Leaf Beetle
 Emerald Ash Borer	 Fire	 Logging Damage
 Anthracnose	 Flooding-High Water	 Needlecast
 Ash Yellows	 Hemlock Woolly Adelgid	 Wind-Tornado/Hurricane

What's bugging us:

DCA	Acres
Gypsy Moth	287,013
EAB	19,915
Wind/Tornado	3,280
HWA	2,841
Logging	1,658
Anthraco nose	307
Fire	192
Needlecast	105
EHS	79
Flooding	27
Ash yellows	22
Willow leaf beetle	4
TOTAL	315,445



The approaching disaster...





EAB:

- **First detection: New Haven County in 2012**
- **Now confirmed in 136 towns in all 8 counties**
- **2018: almost 20,000 acres mapped**
- **At the “tipping point” for public notice in most urban/suburban landscapes**



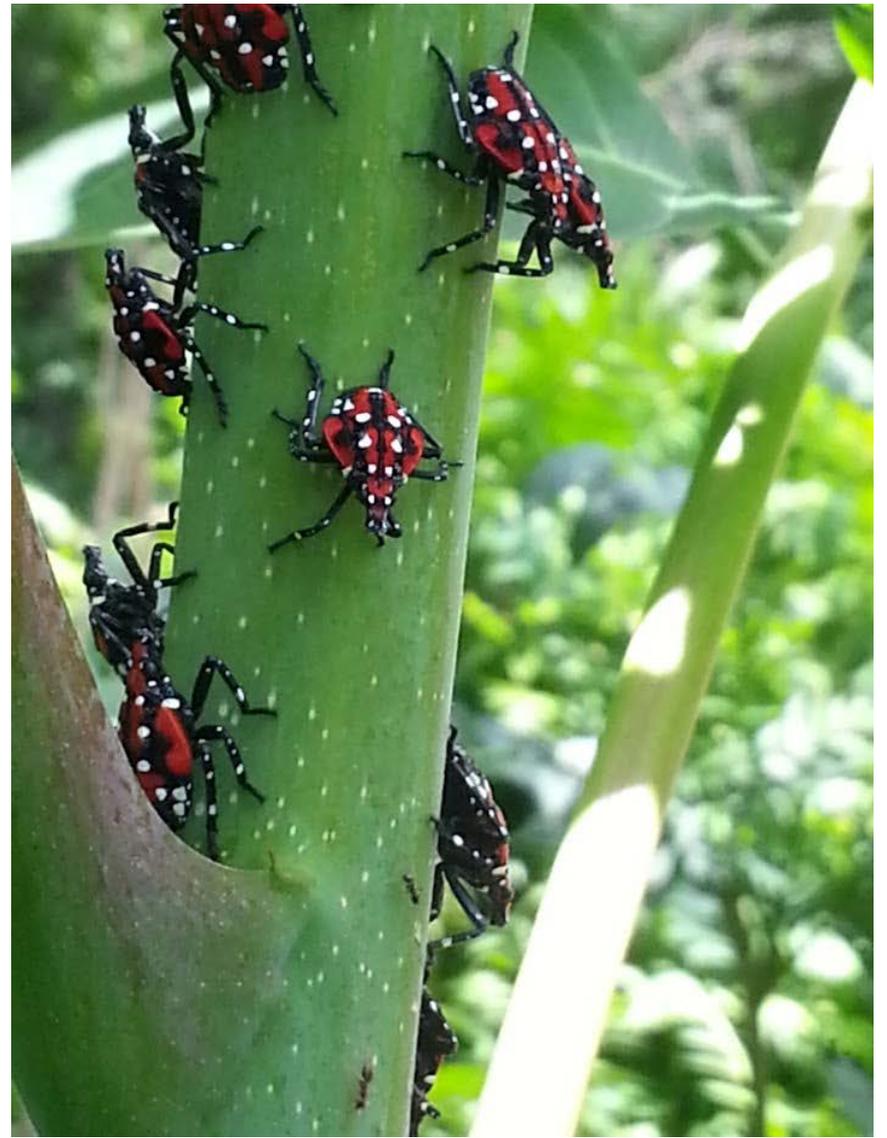
Adult Spotted Lantern Fly

Spotted Lantern Fly:

- **Infestations in PA, VA, MD, DE, NJ**
- **Interceptions in DE, NY (dead), and NJ (live but eradicated)**
- **Favored host is tree of heaven, but has a wide agricultural host range**



Adult Spotted Lantern Fly at rest



Second and third instar nymphs



Sticky band trap



Find the egg mass!

Spotted Lantern Fly:

- CAES.stateEntomologist@ct.gov
- ReportSLF@ct.gov
- Reported on October 11, 2018
- Very reliable respondent, well-informed and aware of invasives (DEEP employee at Sessions Woods!)
- Preliminary inspection on October 12, 2018
 - Some TOH and wild grape nearby; no evidence of infestation on the immediate property



SLF follow-up:

- **Hosted visiting in-laws from Emmaus PA in previous weeks; insect probably was a hitchhiker in the grille of the car**
- **Also inspection of previous residence where in-laws had visited**
- **¼-mile delimitation survey October 23 (CAES, CT-DEEP, USDA-APHIS-PPQ, USDA-APHIS-ALB)**
- **No SLF found!**

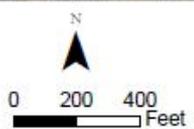


United States
Department of
Agriculture

Spotted Lanternfly (*Lycorma delicatula*) CT Delimit Survey -- Quarter Mile -- October 2018



	1/4 Mile buffer		Sub-grid boundary
	U.S. National Grid boundary		Town boundary

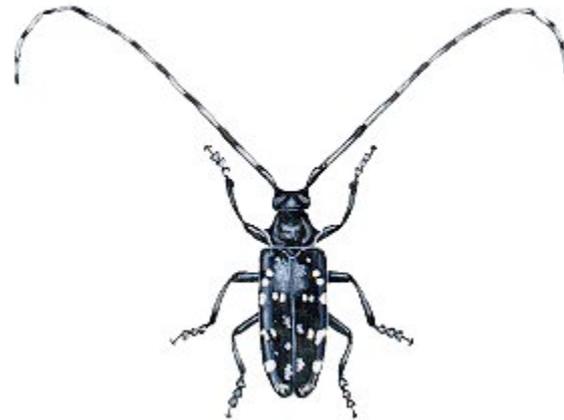


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Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

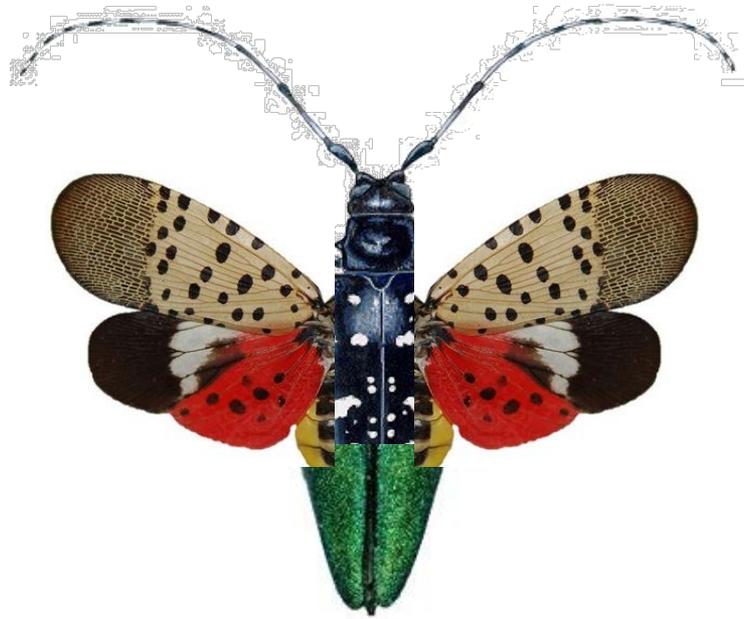
Just to complicate things...

- **East Asian Longhorned tick detected in CT**
 - Primarily a livestock pest, also on deer, etc.
 - The latest thing to be confused with ALB...



New pest on the horizon:

- **Asian Spotted Borer:**



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