

Two Alien Beetles Expand Their Distributional Range in Connecticut

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Foreign Insects Recently Found in Connecticut

1998—Cedar Longhorned Beetle	2007—Carex Mealybug
2000—Giant Resin Bee	2007—Roesel's Katydid
2002—Small Hive Beetle	2008—Brown Marmorated Stink Bug
2004—Soybean Aphid	2009—Bull Mason Bee
2004—Viburnum Leaf Beetle	2010—Yellow-Footed Ant
2004—Wool Carder Bee	2010—European Wood-Wasp
2005—Winter Moth	2011—Spotted Wing Drosophila
2005—Horn-faced Bee	2012—Emerald Ash Borer
2006—Pine Shoot Beetle	2013—Daylily Leafminer
2006—Swede Midge	2014—Eurasian Wood-Boring Sawfly
2007—Banded Elm Bark Beetle	2015—Tree-of-Heaven Jewel Beetle

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Japanese Cedar Longhorned Beetle

(*Callidiellum rufipenne*)



- Native range is eastern Asia
- First found in Connecticut in 1998
- First time found in live (but stressed) woody plants in the family Cupressaceae
- Principal wild reservoir is eastern red cedar
- Survey was conducted from 1999 to 2005 to determine range in the Northeast

Life History and Damage

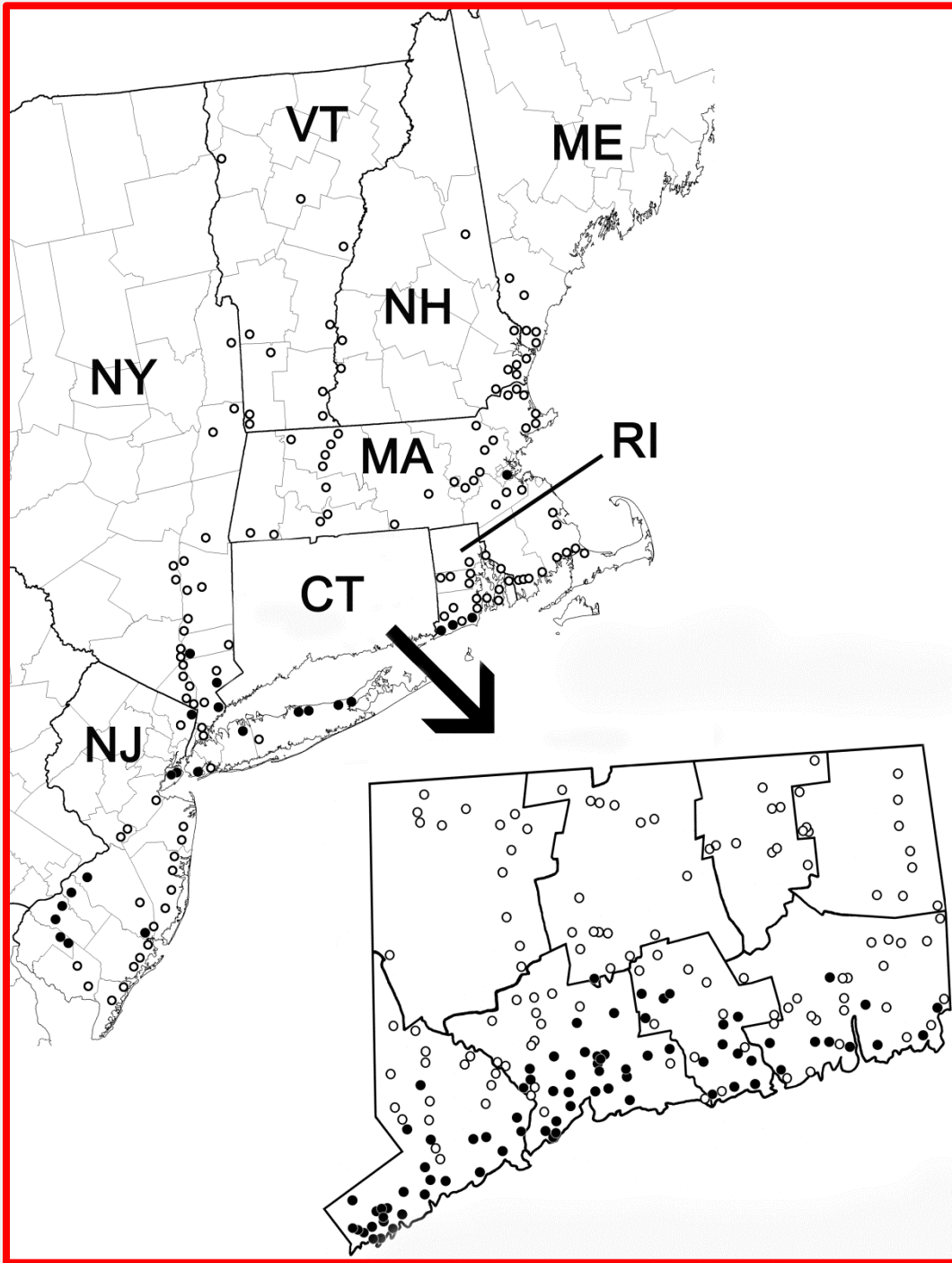


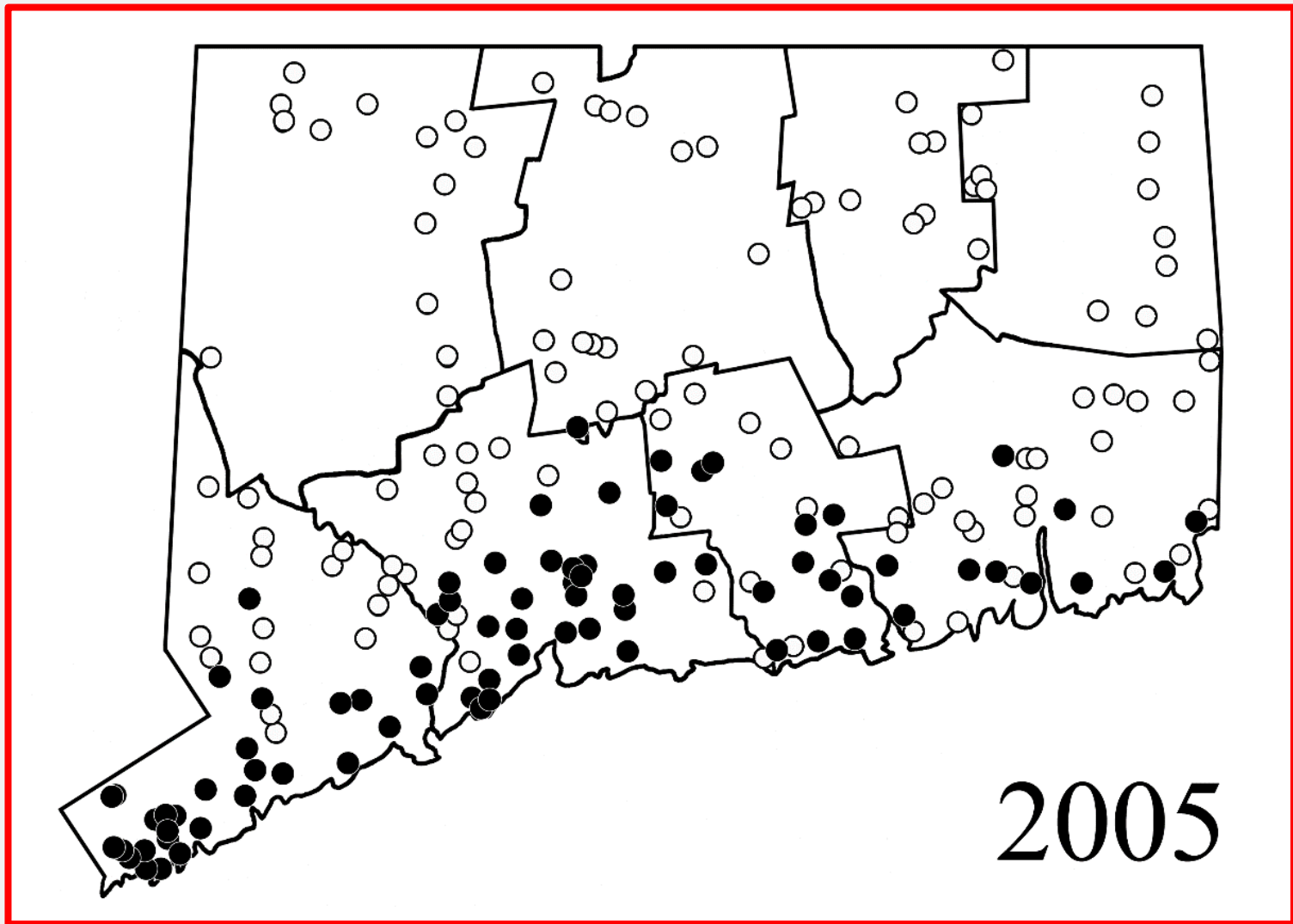
Sampling Techniques-First Survey





Wild hosts, such as eastern red cedar, are common throughout most of the state



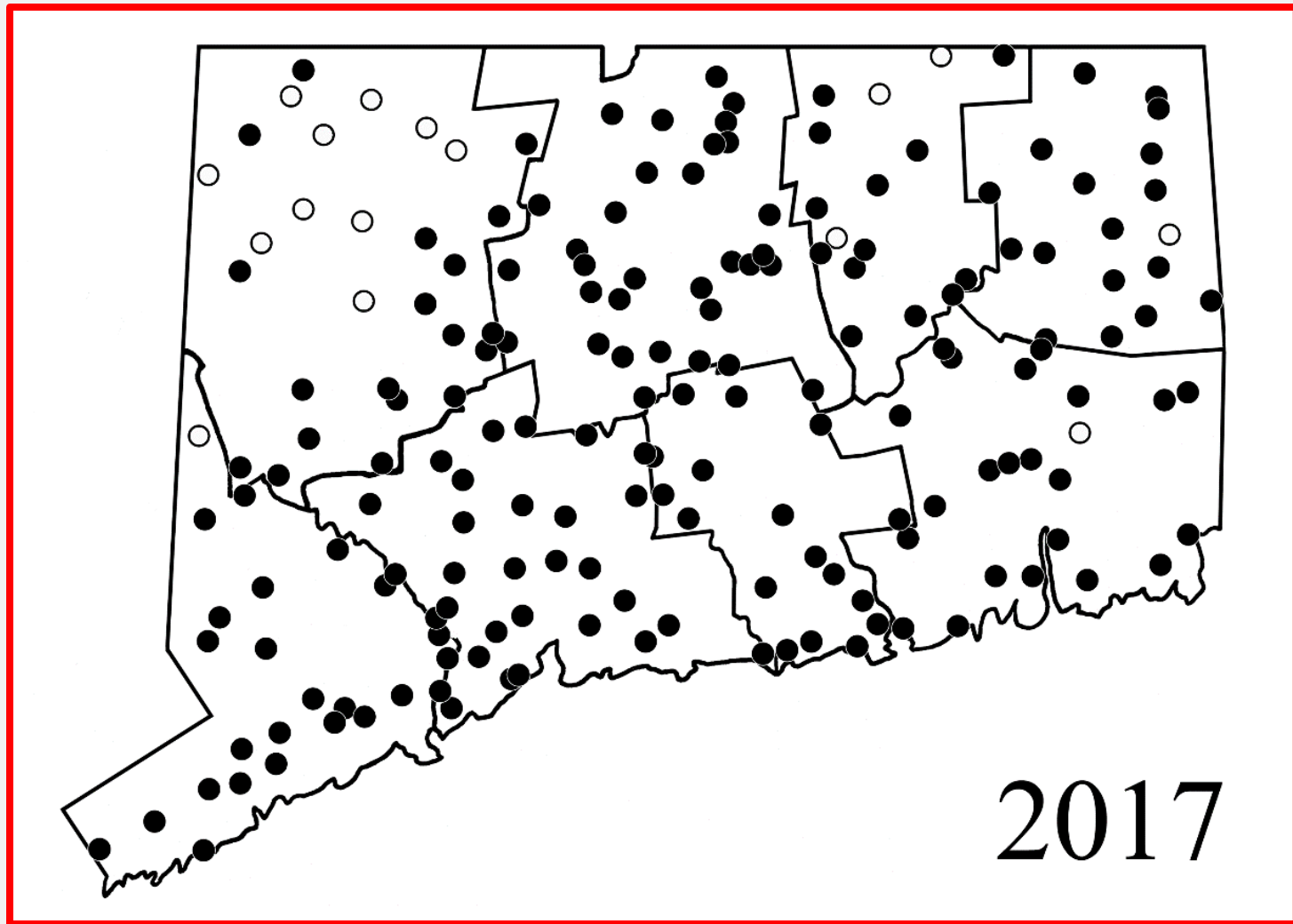


Adults trapped or reared in 58 towns in southern Connecticut

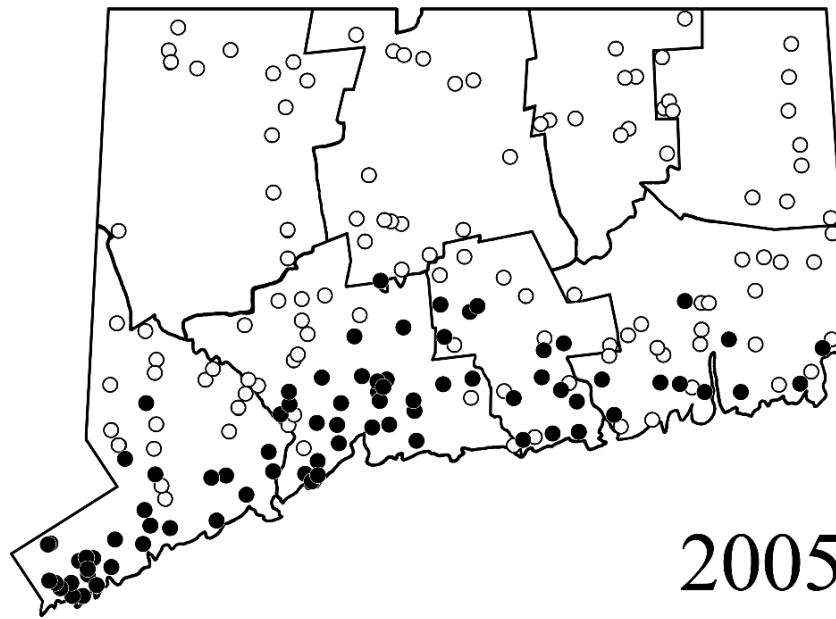


New Method

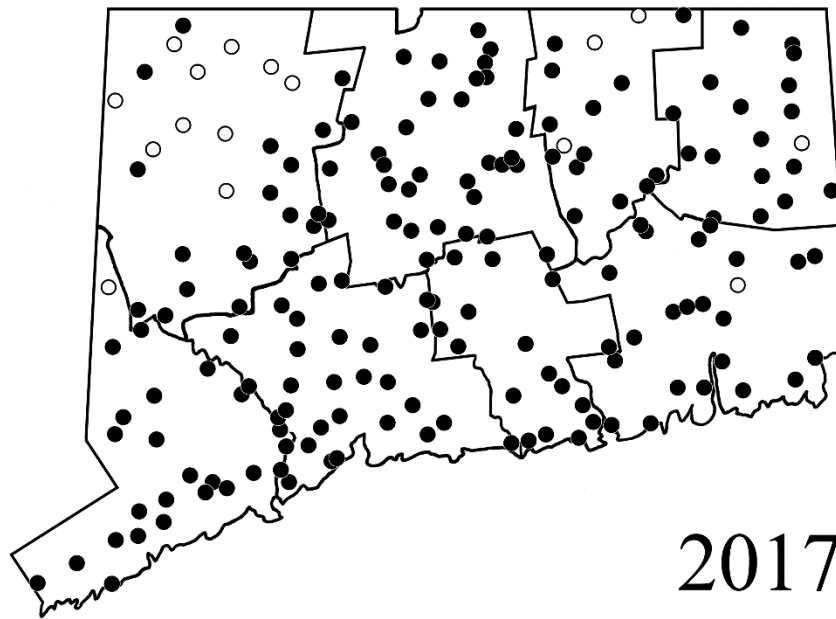
Cross-vane panel trap with lures of six-carbon ketones and ethanol; low-toxicity antifreeze (propylene glycol) in collection cup killed adults that were trapped



- Adults trapped or reared in 157 of 165 (95.2%) of towns sampled
- Of 187 traps deployed, 171 (91.4%) captured one or more adults



2005



2017



Viburnum Leaf Beetle

(*Pyrrhalta viburni*)



- Native range is Europe
- First found in Connecticut in 2004
- Larvae and adults eat both ornamental and wild viburnum
- Survey was conducted in 2009 and 2010 to determine range in Connecticut

Life History



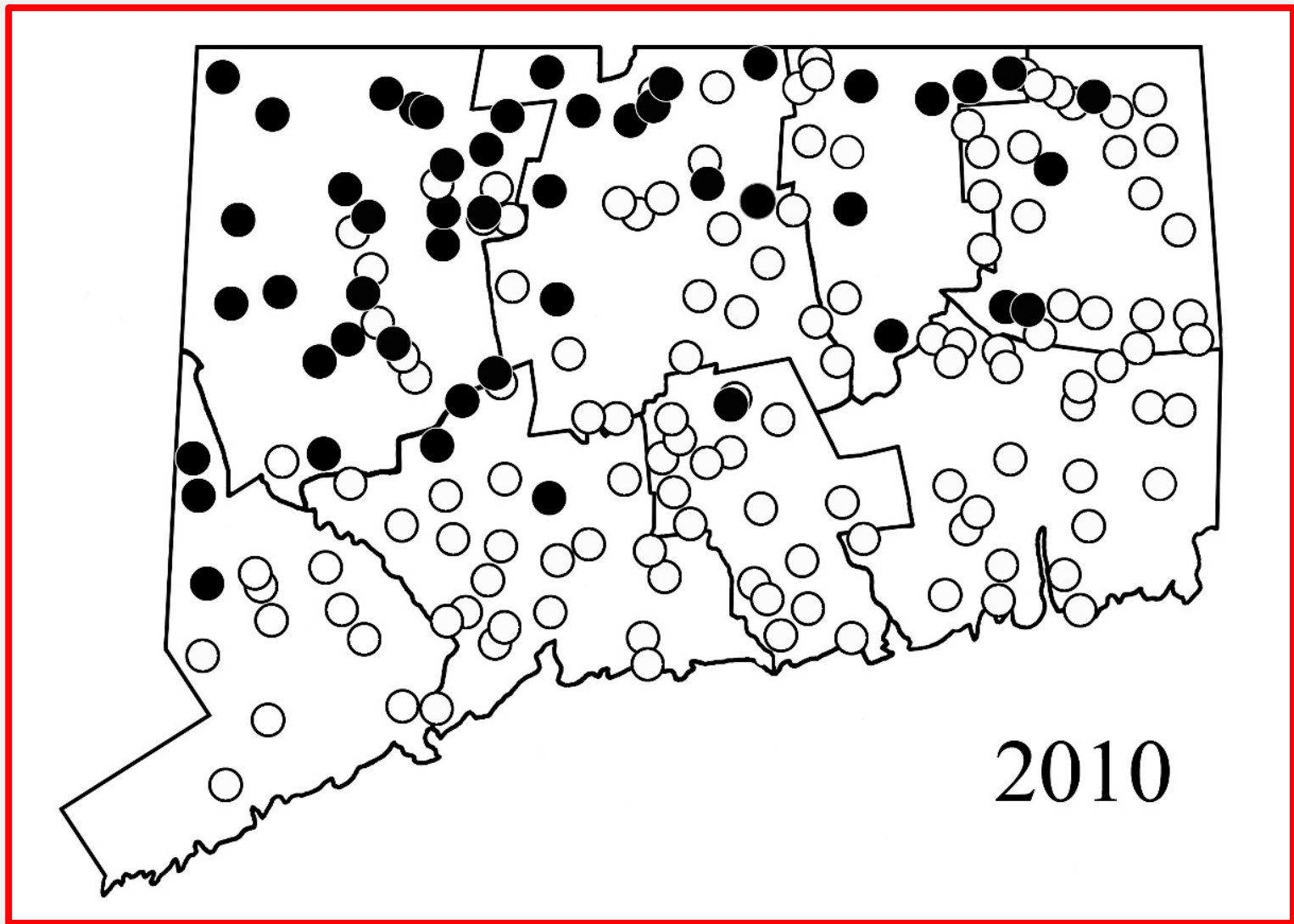
Damage



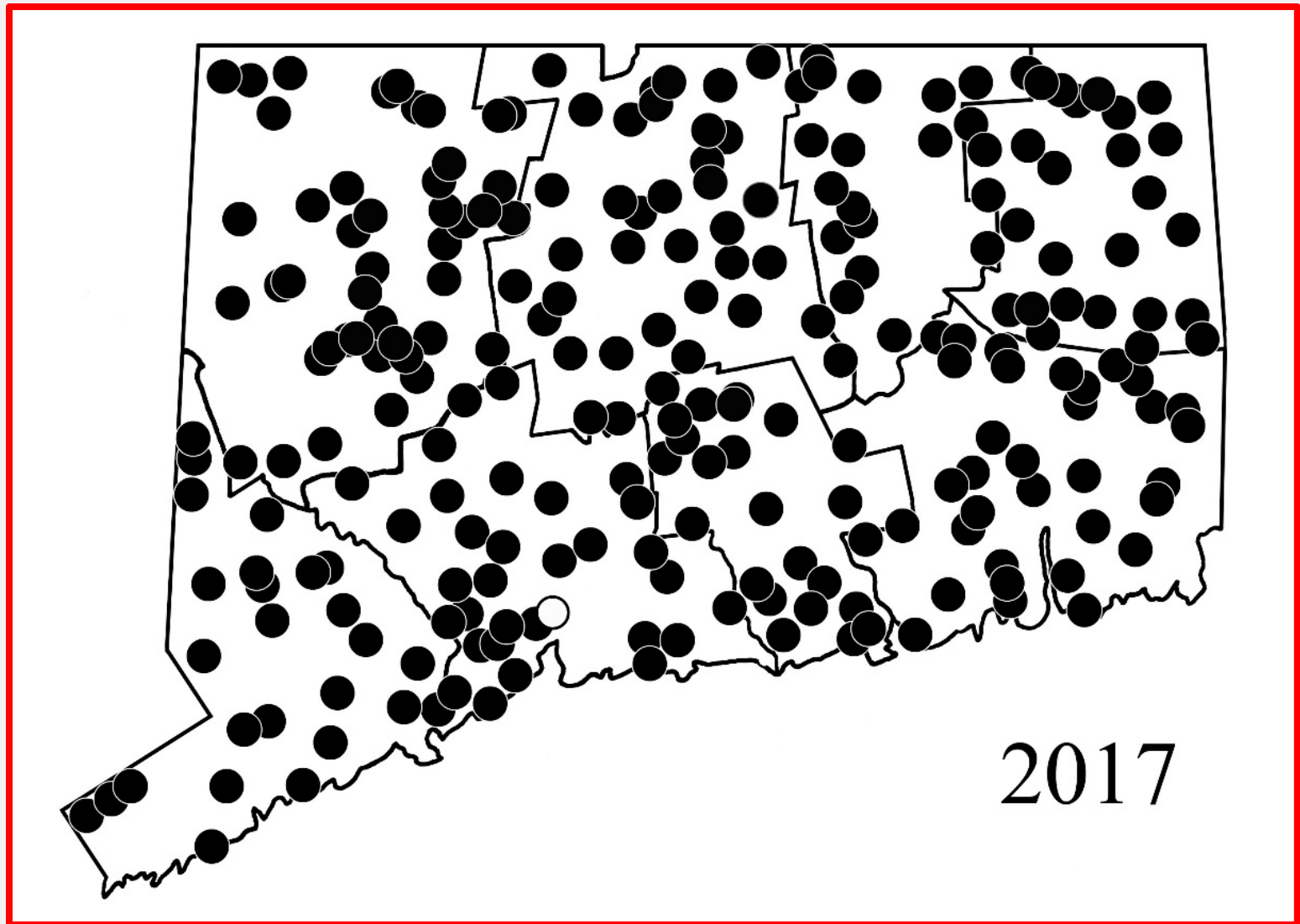
Sampling Technique



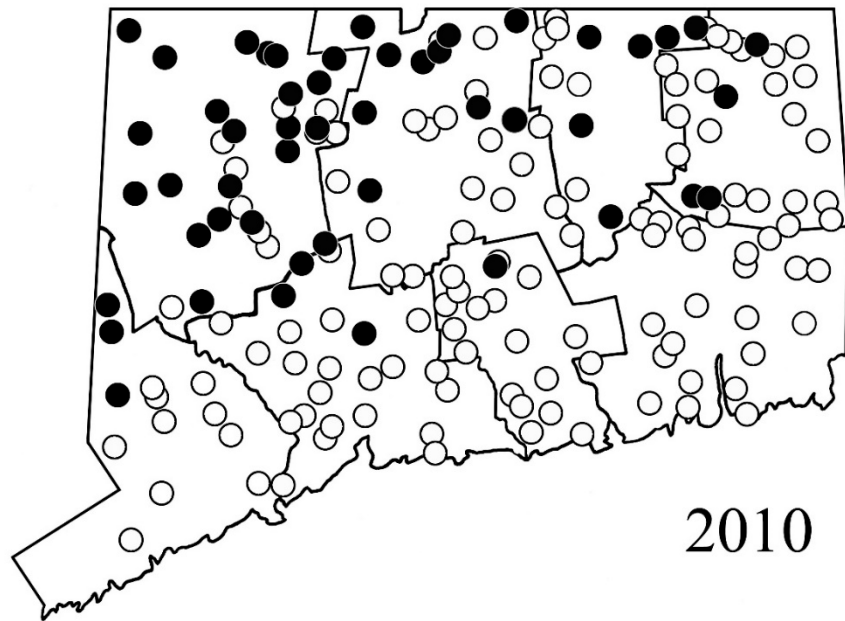
Adults dislodged from
viburnum bushes by
striking branches



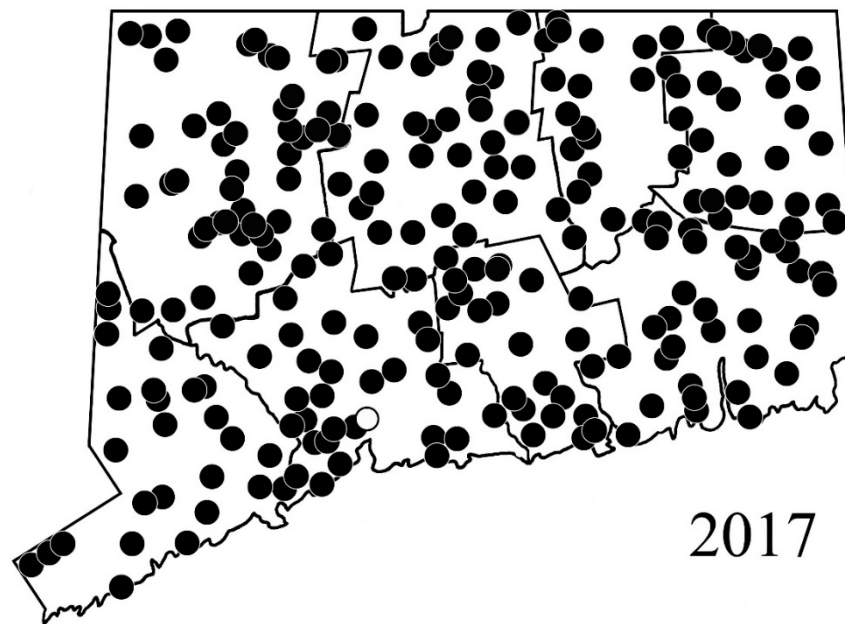
- 51 of 181 (28.2% of total) sites sampled had the VLB
- Positive sites were mainly in the northern one-half of Connecticut



247 of 248 (99.6% of total) sites sampled in 2016-2017 had the VLB



2010



2017

From 2010 to 2016-2017, the viburnum leaf beetle spread throughout the state. Wild and cultivated viburnums are now at risk of attack statewide.

