Cape Cod Mosquito Control Project

Presenter
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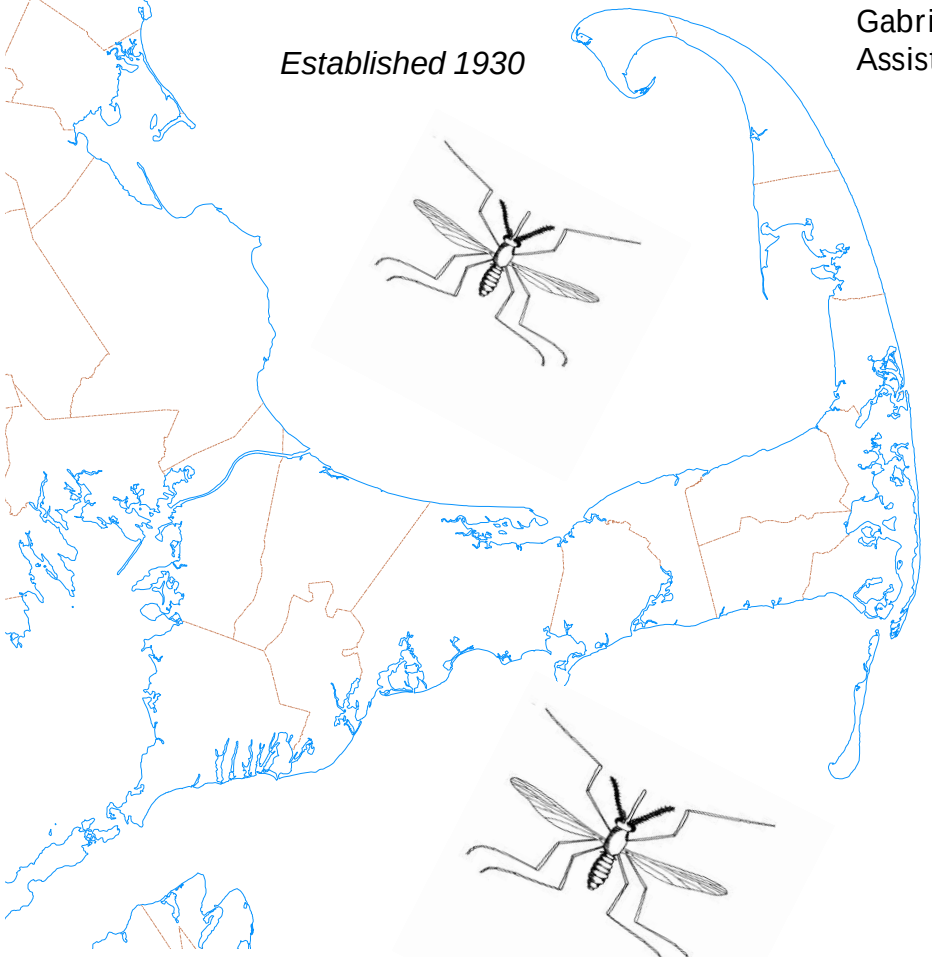
Assistant Superintendent

Established 1930



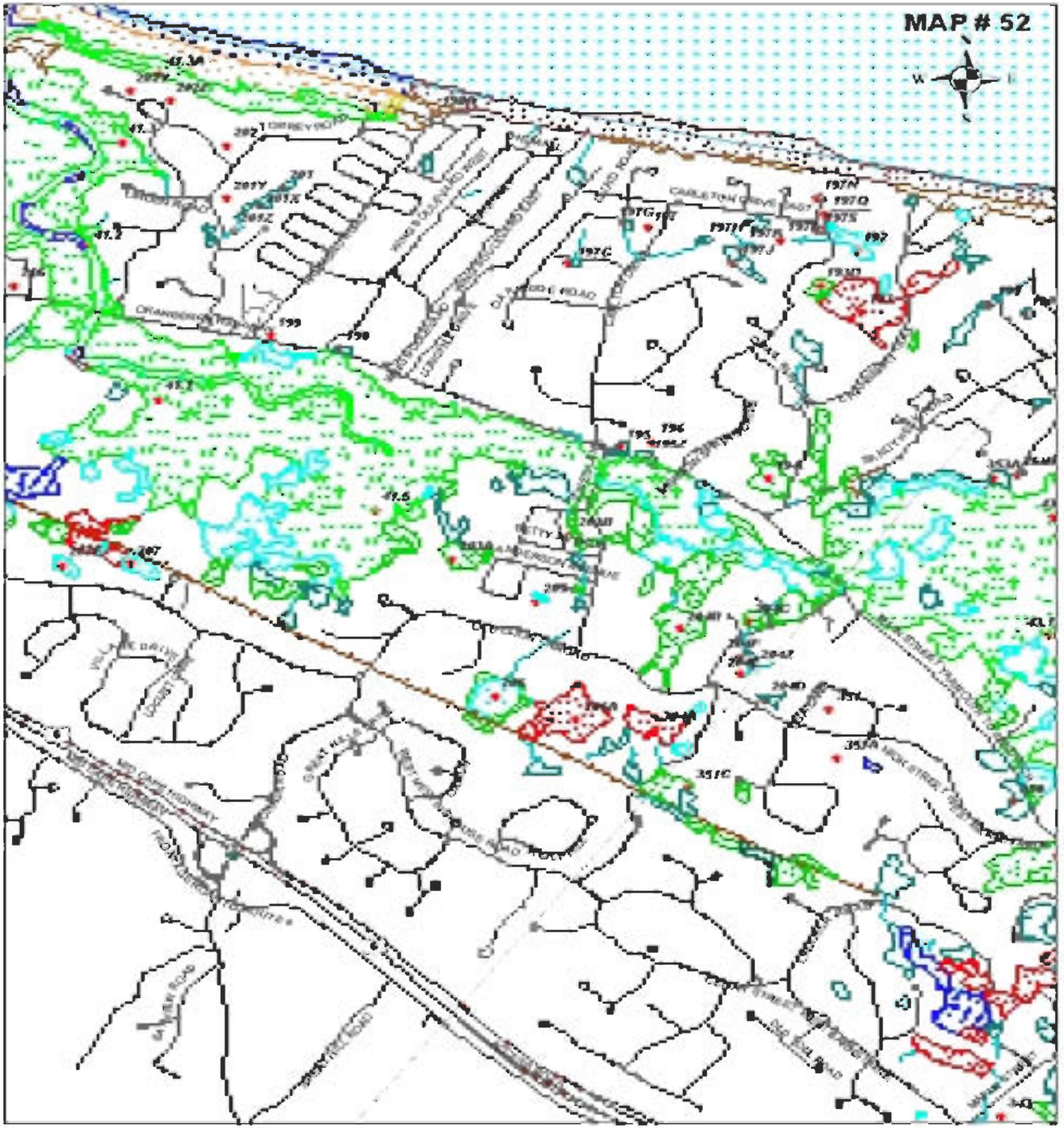
Mosquito Life Cycle

Egg

Larva

Pupa

CDC


MAP # 52

Mosquito Habitats

Swamps and standing water

Floodwater

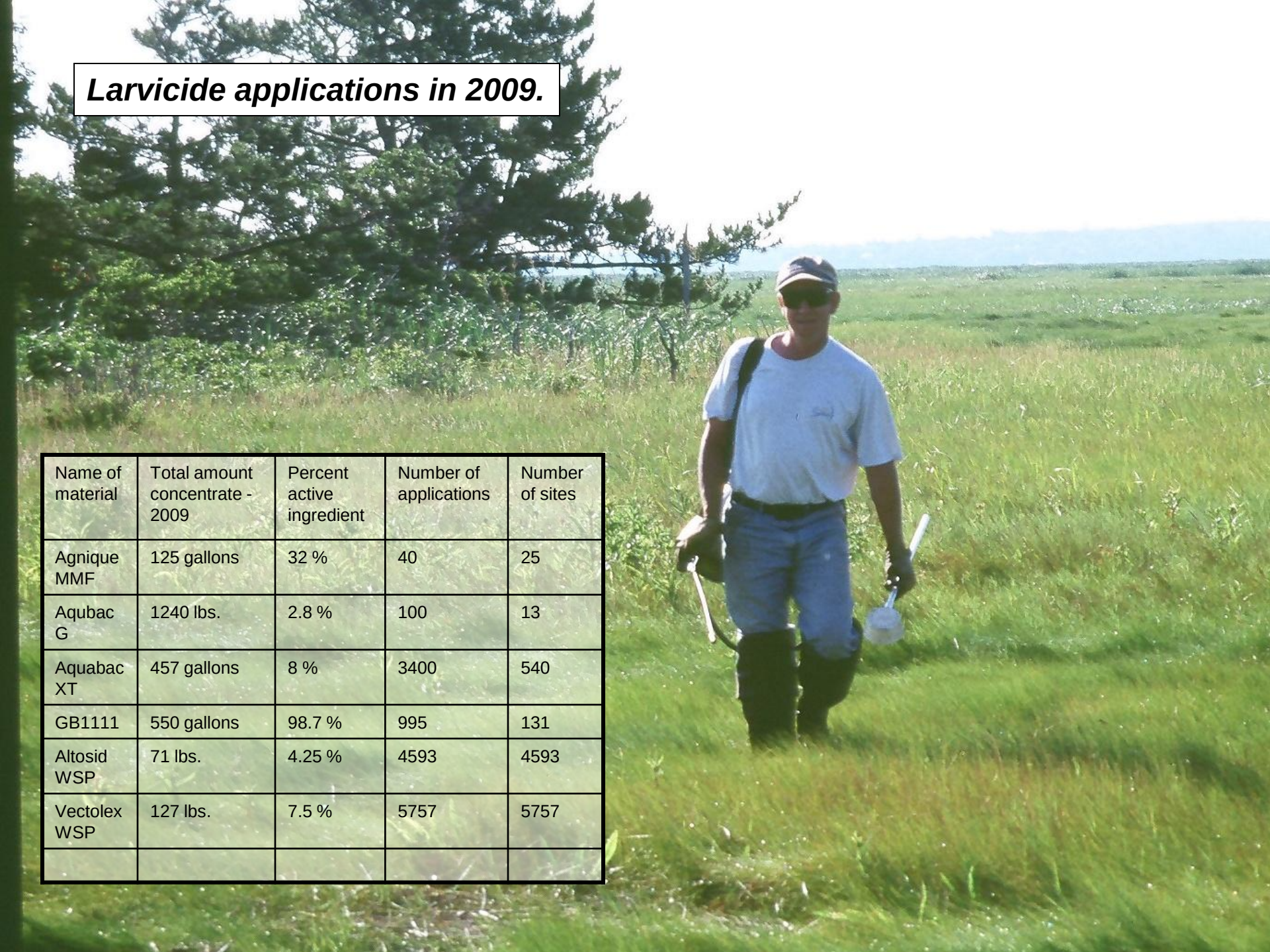
CDC

Brush paths for access for maintenance and treating.

500,000 feet of access paths completed in 2009.

In 2009, crews opened
359 pipes and culverts.

Larvicide applications in 2009.



Name of material	Total amount concentrate - 2009	Percent active ingredient	Number of applications	Number of sites
Agnique MMF	125 gallons	32 %	40	25
Aqubac G	1240 lbs.	2.8 %	100	13
Aquabac XT	457 gallons	8 %	3400	540
GB1111	550 gallons	98.7 %	995	131
Altosid WSP	71 lbs.	4.25 %	4593	4593
Vectolex WSP	127 lbs.	7.5 %	5757	5757

Container Habitats

Treeholes

Man-made

CDC

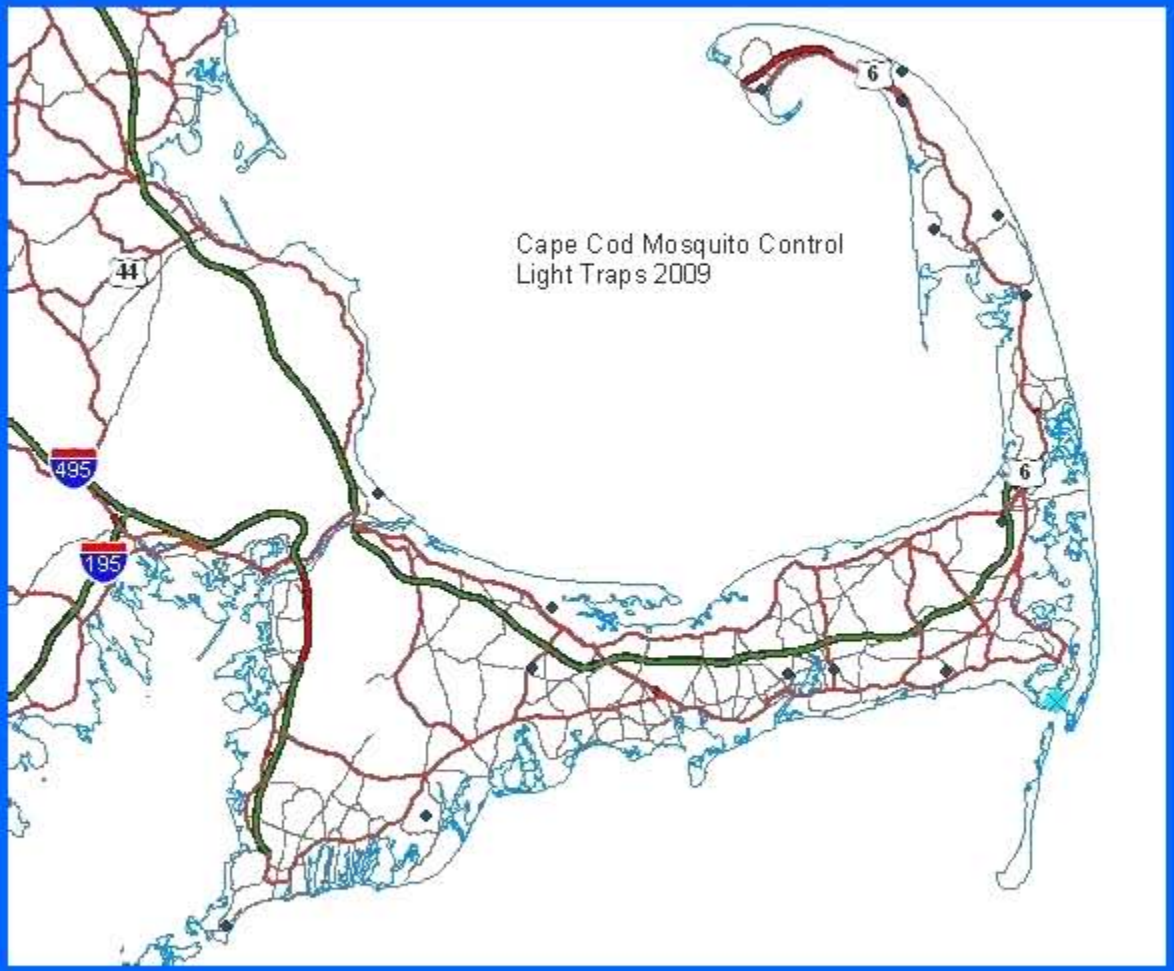
MALETTI

Mechanized ditch maintenance.
1,000 feet inland ditches
and 1,000 feet saltmarsh ditches cleaned in 2009.

Brush paths for access for maintenance and treating.

500,000 feet of access paths completed in 2009.

Light trap baited with carbon dioxide used to monitor mammal-biting mosquitoes.


Cape Cod Mosquito Control
Light Traps 2009
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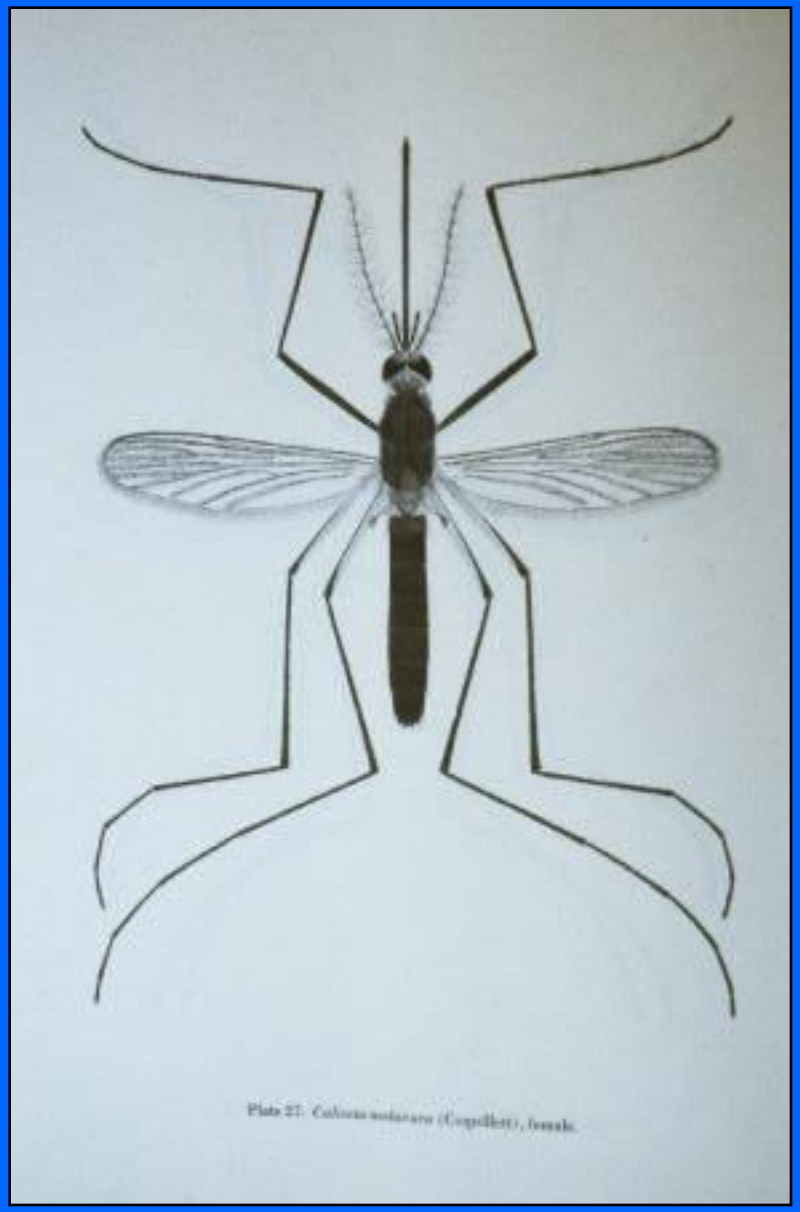
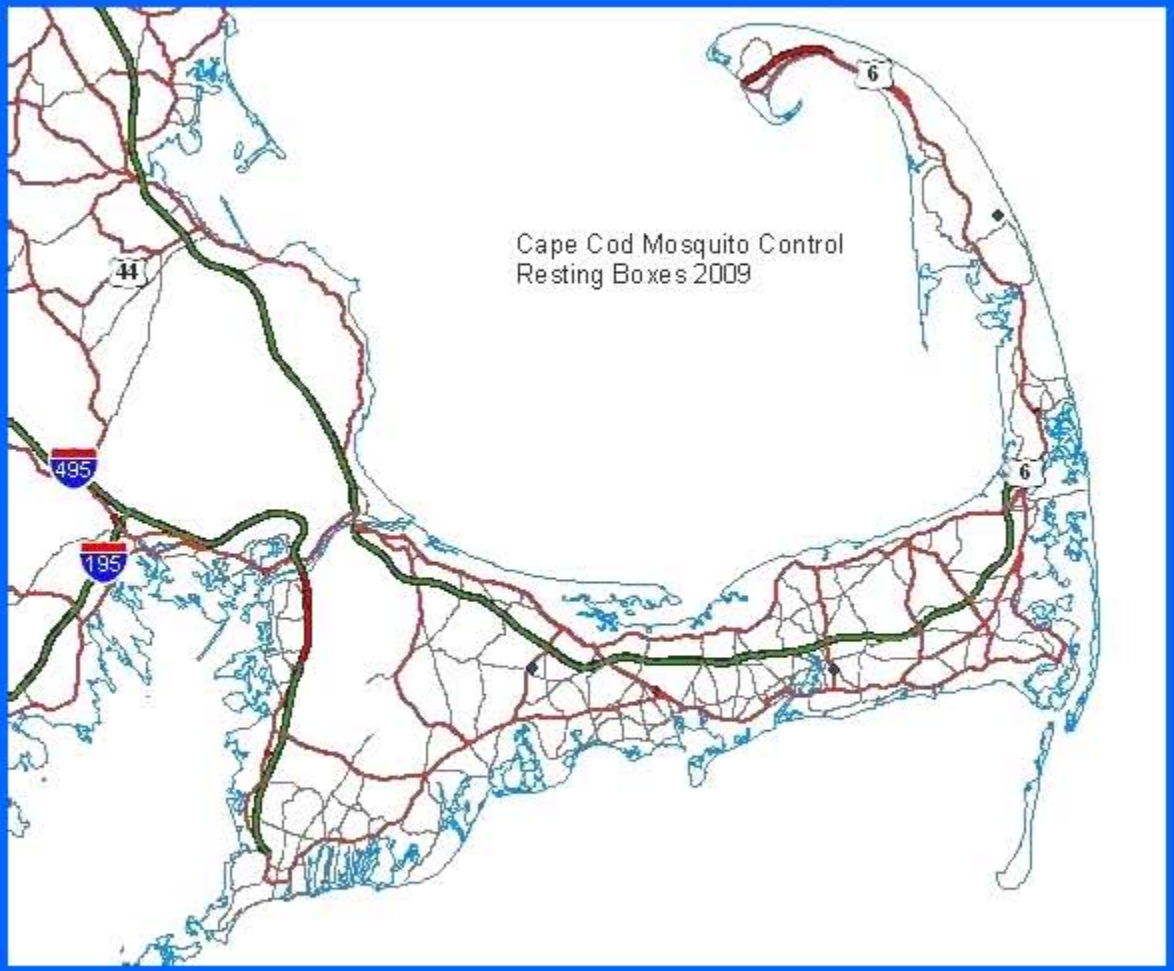
***Culiseta melanura*, enzootic vector Eastern Equine Encephalitis virus.**



Resting box used around red maple/white cedar swamps to monitor *Culiseta melanura*.


Cape Cod Mosquito Control
Resting Boxes 2009
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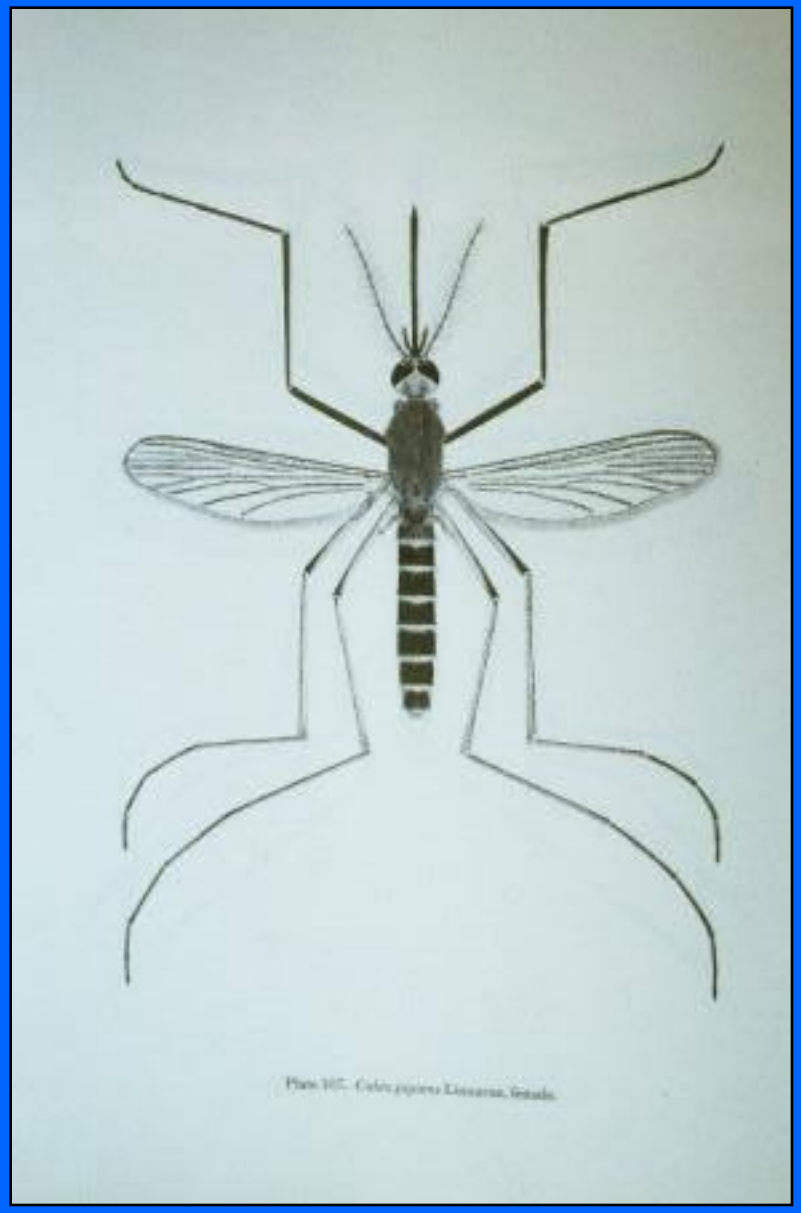
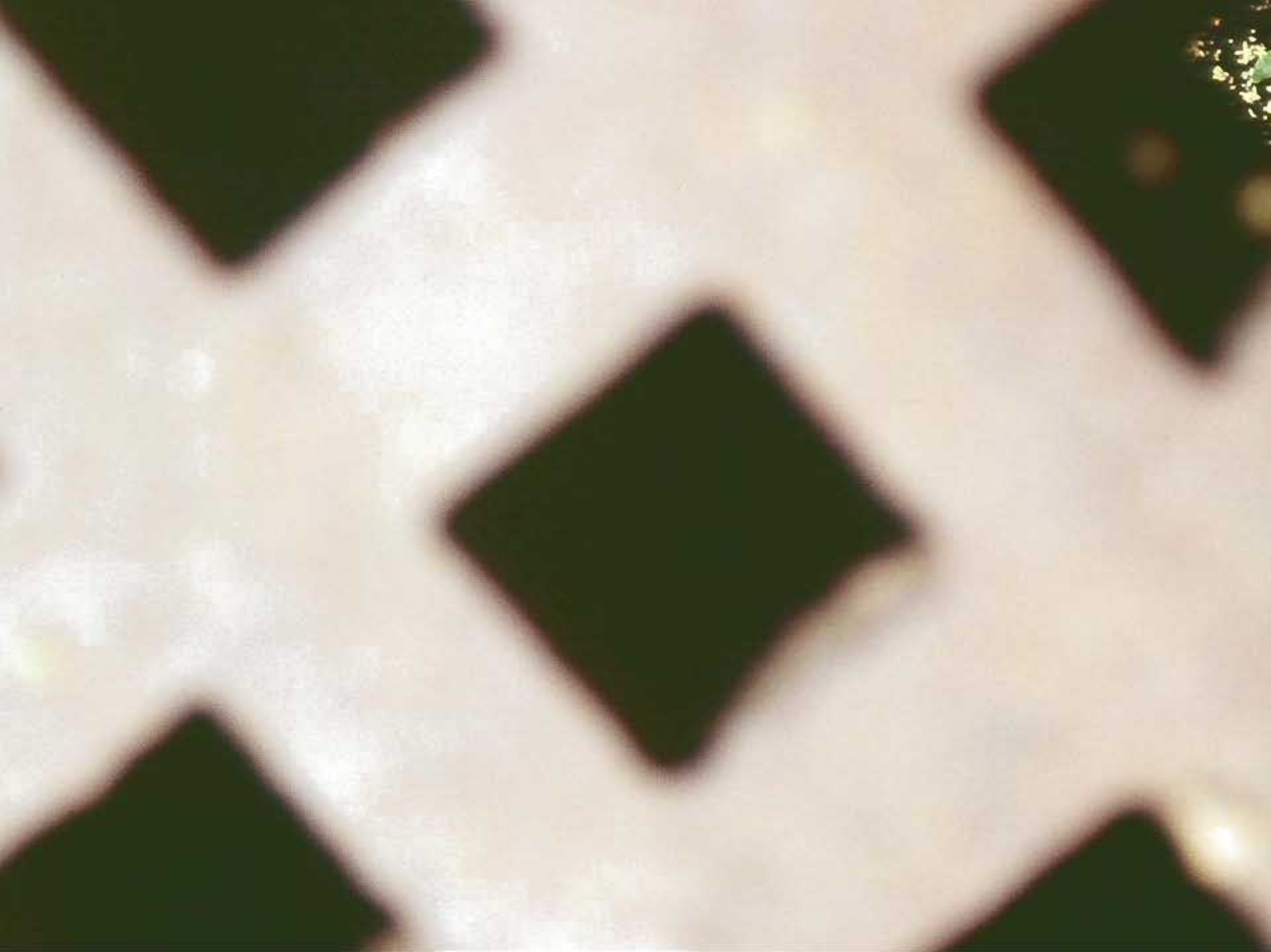
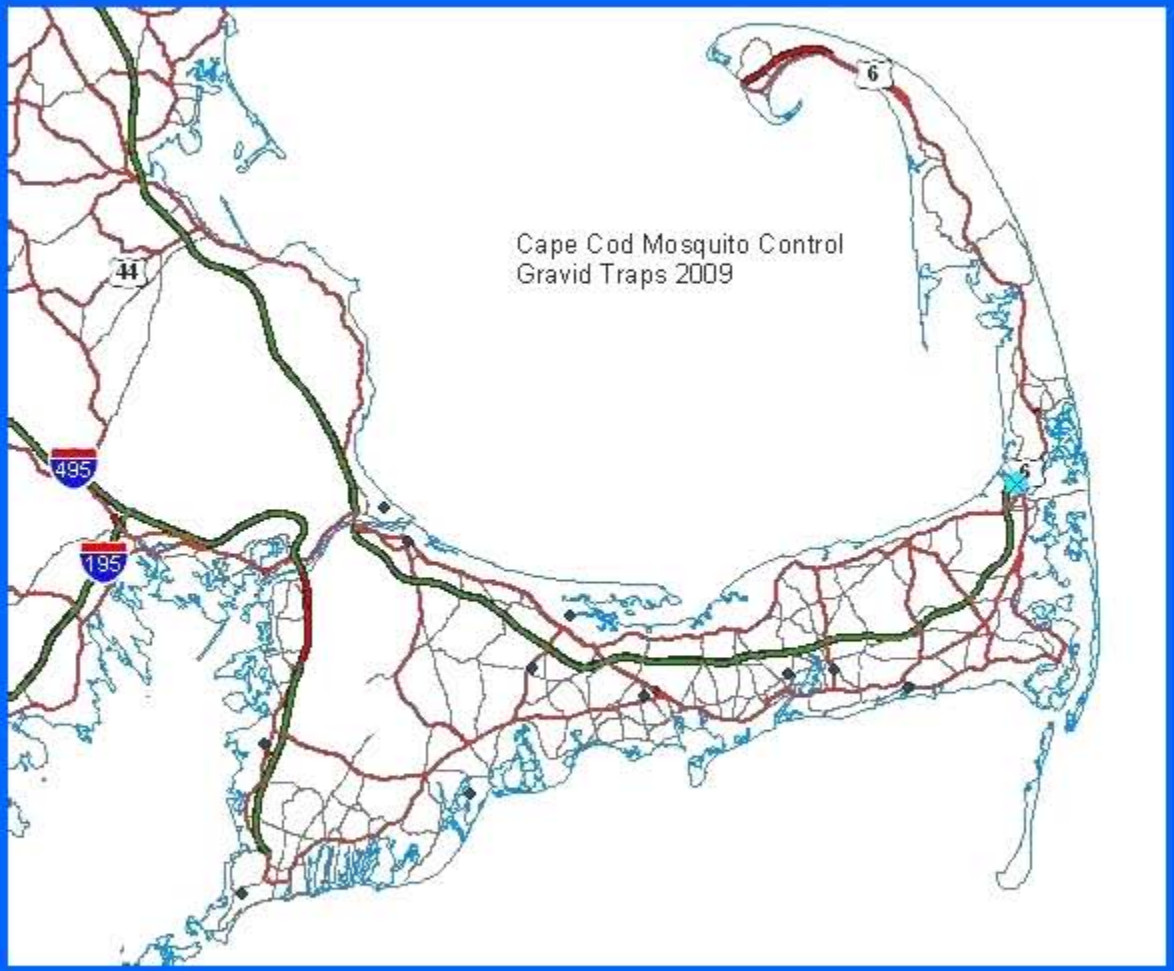
***Culex pipiens*, the common house mosquito.**
vector of West Nile Virus.



Make sure the water in a bird bath is changed regularly.
After a week in the summer,
a bird bath becomes mosquito larval habitat.



Gravid trap are used to monitor *Culex* populations. Highly organic hay infusion is put in the rubber container to attract egg-laying females.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Gravid Traps 2009
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Massachusetts Arbovirus Surveillance - Mosquitoes

The first positive mosquito sample for EEE was identified in Freetown on 7/16/09. The first positive mosquito sample for WNV was identified in Walpole on 7/21/09. For information on protection from mosquito bites, please return to the arbovirus information website.

Please click on a county name below to view positive results by town.

Test Results - By County		
Barnstable	Bristol	Essex
Middlesex	Norfolk	Plymouth
Suffolk	Worcester	

Barnstable County

City or Town	Date Collected	Species	Virus Result
Bourne	8/25/2009	Culex pipiens/restuans complex	WNV

Mosquitoes trapped in Barnstable County submitted to the Massachusetts Department of Public Health for arbovirus testing, 2007, 2008, and 2009.

Mosquito Species	**Number Submitted 2007**	**Number Submitted 2008**	**Number Submitted 2009**
Aedes vexans	14	0	0
Anopheles punctipennis	2	0	0
Coquilletidia peturbans	205	0	0
Culiseta melanura	592	638	560
Culiseta moristans	62	48	29
Culex pipiens/restuans	2299	3082	3662
Culex salinarius	100	0	0
Ochlerotatus canadensis	75	0	0
Ochlerotatus cantator	0	0	0
Ochlerotatus excrusians	121	0	0
Ochlerotatus japonicus	62	33	40
Ochlerotatus sollicitans	0	0	0
Ochlerotatus triseriatus	103	114	10
Uranotaenia sapphirina	4	0	0
Total	3739	3915	4301