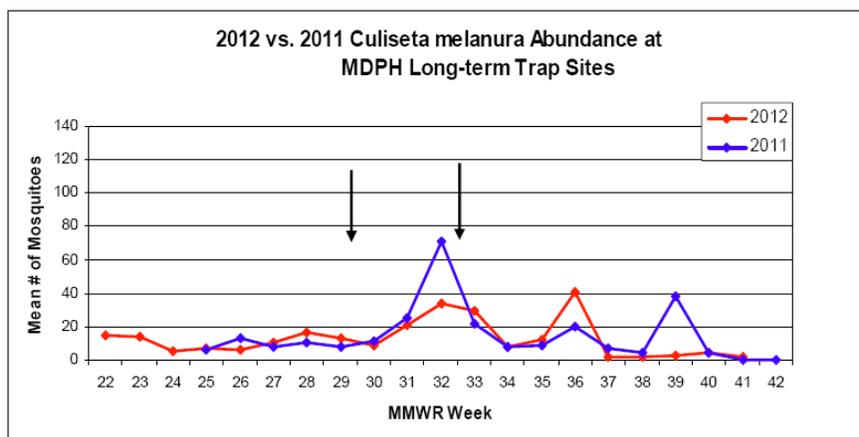


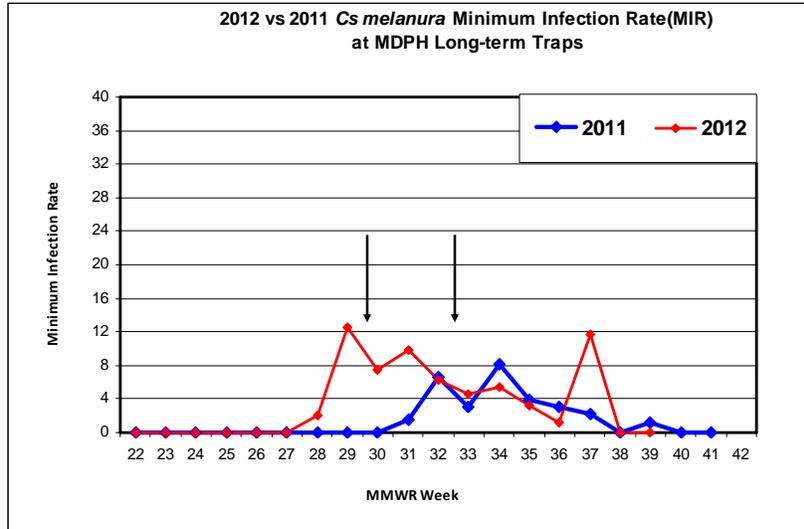
2012 Aerial Sprays

Culiseta melanura Population



Notes: First arrow indicates aerial adulticide application, July 20-22.
Second arrow indicates aerial adulticide application, August 13.

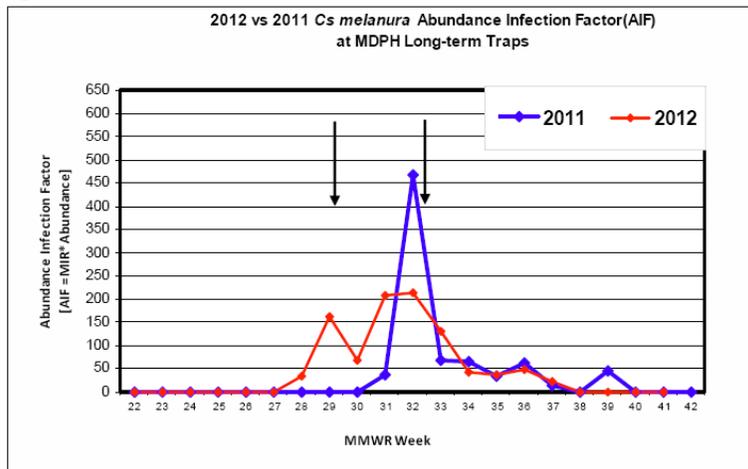
EEE Infection Rate in Mosquitoes



Notes: First arrow indicates aerial adulticide application, July 20-22.
 Second arrow indicates aerial adulticide application, August 13.

Abundance Infection Factor

Infection Rate X Population = Abundance Infection Factor



Notes: First arrow indicates aerial adulticide application, July 20-22.
 Second arrow indicates aerial adulticide application, August 13.

2012 First Spray Efficacy

Reductions reported: Aerial Adulticide Application July 20-22,2012

Species	Bristol MCP	Plymouth MCP 7/20 spray	Plymouth MCP 7/21 spray	DPH	
Total	58%	81%	no control	42%	
Cs. melanura	71%	36%	no control	80%	
Cq. perturbans	81%	81%	14%	41%	
Oc. canadensis	no control	84%	no control	17%	
Ae. vexans	no control		no control		
Other				9%	

2012 Second Spray Efficacy

as measured by DPH longterm traps

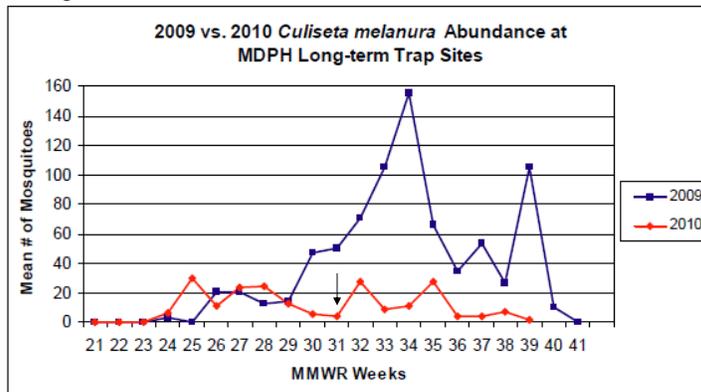
Preliminary Efficacy Determinations:

<u>Species</u>	<u>Percent Reduction</u>
Total	36-47%
Cs. melanura	62 -73%
Cq. perturbans	46-60%
Ae vexans	no control,
Oc. canadensis	no control

2010 Aerial Spray

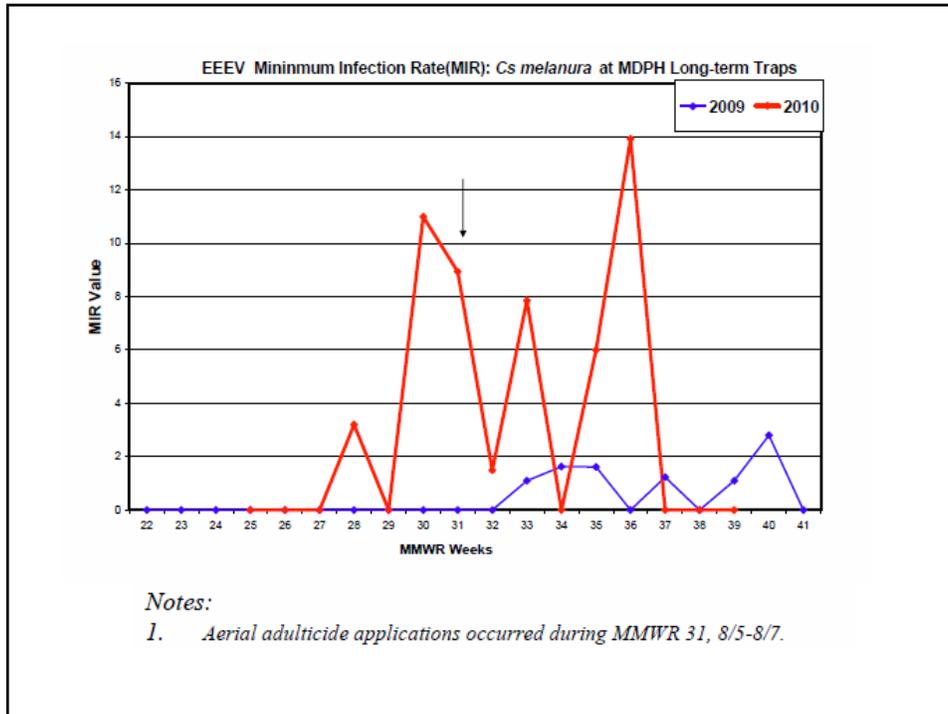
Culiseta melanura Population

Figure 3:



Notes:

1. Aerial adulticide applications occurred during MMWR 31, 8/5-8/7.



2010 Spray Efficacy

As measured by 3 different agencies

Aerial adulticide Event, Aug 5-7, 2010: Efficacy Results reported by:

1. Plymouth County Mosquito Control

Results:

Overall Total control: 80.84%
Cs. melanura control: 68.95%
Cq. perturbans control: 87.71%

2. Bristol County Mosquito Control Project

Results:

Ae vexans 100.0 %
Cs melanura 96.2
Cq perturbans 87.0
Oc canadensis 100.0 %
 Overall (Total Mosquitoes) 87.0%

3. MDPH State Laboratory Institute

Results:

Overall control – 77%
Coquillettidia perturbans control - 89%
Culiseta melanura – 39%
Ochlerotatus canadensis control – Insufficient collections
Aedes vexans control – Insufficient collections