

Pennsylvania 2007 State Report

Overview

- Funding
- Surveillance
- Control
- Virus testing
- 2008

Funding

- Budget of roughly \$7 million
- Allocated \$5.2 million in grants to counties



Surveillance

- Gravid traps, CO₂-baited light traps, and larval dipping, plus a variety of other surveillance tools were primarily used



Surveillance Tools

Surveillance tool	# of collections
Gravid trap	16,564
Dipping sample	7,350
CO ₂ -baited light trap	5,688
Aspiration	101
Oviposition	53
Magnet	36
Resting Box	34
BG Sentinel	14
Landing count	4
Fay-Prince	2

Surveillance and Identification

- 30,000 successful mosquito collections
- Collected 777,817 specimens
- 44 species
- Top 15 species represented 98.6% of total specimens collected



Top 10 Species Collected In 2007

(larvae and adults combined)

Species	Total collected
<i>Culex restuans</i>	250,624
<i>Culex pipiens</i>	217,273
<i>Aedes vexans</i>	47,441
<i>Ochlerotatus japonicus</i>	43,264
<i>Ochlerotatus trivittatus</i>	38,873
<i>Coquillettidia perturbans</i>	26,800
<i>Ochlerotatus triseriatus</i>	15,140
<i>Ochlerotatus canadensis</i>	14,911
<i>Psorophora ferox</i>	11,762
<i>Culex salinarius</i>	9,471

Avian Surveillance

- Dead bird surveillance and testing was limited to Corvids and Raptors
- Database for recording other species of dead birds
- 859 birds were sighted
- 122 were collected



Control



Control

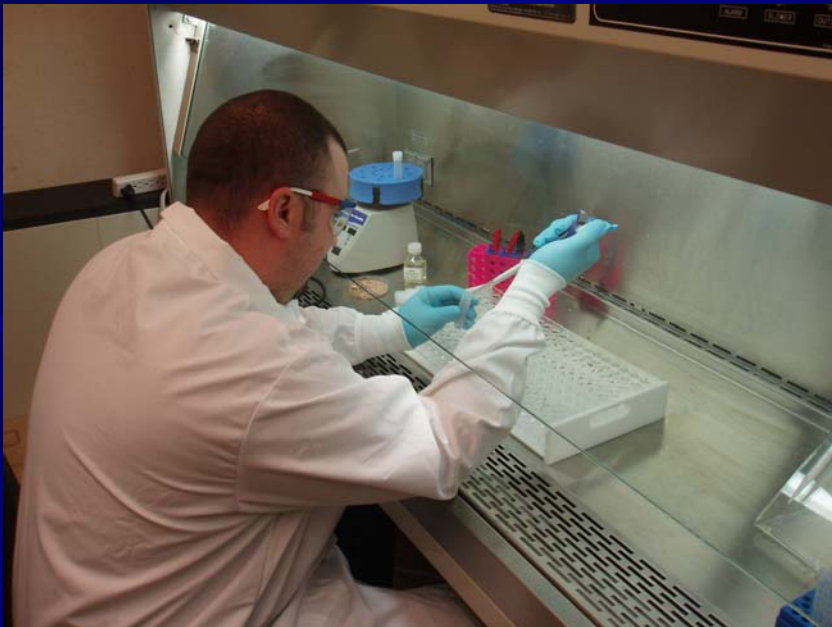
Emphasis is on larval control

- Treated at least 129,193 catch basins
- Made 6,200 other larval applications
- Made 501 adult applications (ULV and Barrier)
- Made 4 aerial larviciding applications

WNV Testing (Mosquitoes)

- Tested 457,453 specimens
(84% *Culex*)
- 244 positive pools

Species	# positives
<i>Cx. pipiens</i>	145
<i>Cx. restuans</i>	57
<i>Cx. spp.</i>	39
<i>Cx. salinarius</i>	2
<i>Ae. vexans</i>	1



Additional Virus Testing Results

- 92 dead birds tested for WNV– 10 positive corvids
- 4 WNV sentinel chicken flocks – no positives
- Limited testing of LAC and EEE did not yield any positive results

Human Testing

- 9 human WNV cases plus 2 positive blood donors
- 1 human Chikungunya case
- 12 human Dengue cases
- Lyme disease – results not tabulated yet for 2007. PA usually in top 3 for human cases.

2008

- Dept. of Environmental Protection mosquito lab will supplement Dept. of Health lab with additional PCR testing of mosquito samples
- Will discontinue use of sentinel chickens
- Will continue testing Corvids and Raptors

Acknowledgements

- 172 Field staff (collection and control)
- DEP lab staff (Richard Dietsch, Bryn Witmier, Denny Keen, and seasonal staff)
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- James Haefner for managing state-wide online database, making it easy to enter and extract data.