A Web-Based Review of Environmental Health Vector Control Services in the US

Georgia Mosquito Control Association Annual Meeting, 2018

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What we will discuss:

- Purpose – why we did this
- Method – how we did this
- Discoveries – what we found
- Conclusion – why it matters
Purpose – why we did this

- Who was doing vector control (VC) in the US?
- What kind of services were they performing?
- Are there differences in the approach different types of programs take?
- What about other vectors?
Method – how we did this

- Performed web searches of 1,210 vector control programs

- Web presence
- Who operated the program
- Public outreach
- Inspections
- Source reduction
- Mosquito surveillance
- Larval control
- Adult control
- Pesticide resistance testing
- Response plan
- IPM
- Rodent control
- Tick control
Discoveries –what we found

Vector Control Services by Program Type

- Local Health Departments: 42%
- Mosquito Control Districts: 28%
- Public Works: 20%
- Other: 10%
- Environmental Health: 37%
- Non-Environmental Health: 5%
Discoveries – what we found

Number of Programs Performing Services

<table>
<thead>
<tr>
<th>Program</th>
<th>Mosquito Control Program Services</th>
<th>Other Vector Services</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Public Outreach and Education</td>
<td>Service Calls and Site Inspection</td>
</tr>
<tr>
<td>Mosquito control district</td>
<td>153</td>
<td>155</td>
</tr>
<tr>
<td>Local health department</td>
<td>108 (85)</td>
<td>162 (130)</td>
</tr>
<tr>
<td>(environmental health)*</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Public works</td>
<td>76</td>
<td>56</td>
</tr>
<tr>
<td>Other</td>
<td>27</td>
<td>21</td>
</tr>
</tbody>
</table>

*Environmental health programs are included in the local health department totals.
Discoveries – what we found

<table>
<thead>
<tr>
<th>Program</th>
<th>Mosquito Surveillance</th>
<th>Larval Control</th>
<th>Adult Control</th>
<th>Resistance Testing</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mosquito Control District</td>
<td>76%</td>
<td>73%</td>
<td>78%</td>
<td>22%</td>
</tr>
<tr>
<td>EHVC</td>
<td>79%</td>
<td>34%</td>
<td>23%</td>
<td>5%</td>
</tr>
<tr>
<td>Public Works</td>
<td>30%</td>
<td>38%</td>
<td>95%</td>
<td>&lt;1%</td>
</tr>
</tbody>
</table>
Discoveries –what we found

Location of EH-Run VC Programs

EHVC Programs | All Other VC Programs
Limitations

- Snapshot
- Convenience Survey
- Online presence varied greatly between programs
Conclusion – why it matters

- Environmental Health VC programs might make up the largest proportion of all US VC programs types

- VC programs can be strengthened by
  - Environmental Health professionals becoming more active in VC associations
  - Environmental Health VC programs promoting their services by providing information online
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Thank you!

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