Binational Project

CDC-Mexican Health Ministry (CENAPRECE)

City of McAllen & City of Reynosa

Mosquito Density Charts by Week
OVERVIEW

IMPLEMENTED IN THE SOUTHERN OF THE CITY OF McALLEN INCLUDING AIRPORT AND SURROUNDING AREAS. (4 COLONIAS)

• ASSESSMENT OF 70-80 AGO TRAPS (ADULTS)
• ASSESSMENT OF 300-310 OVIPOSITION TRAPS (EGGS)

IMPLEMENTED IN THE NORTHERN AREA OF THE CITY OF REYNOSA, TAMPS., MEXICO. (3 COLONIAS)

• ASSESSMENT OF 70-80 AGO TRAPS (ADULTS)
• ASSESSMENT OF 300-320 OVIPOSITION TRAPS (EGGS)

• MAPS & CHARTS

• BINATIONAL SESSIONS TO DISCUSS RESULTS OF THE FIRST JOINT PROJECT
AIMS OF THE PROJECT

• Comparison study between two border areas of Mexico and U.S. as an extension of surveillance approaches from Mexico to the U.S.

• Evaluations of adult densities between the two cities and Aedes species identification using a single surveillance approach. (AGO TRAPS)

• Comparison study between two cities using OVITRAPS as a way to estimate population densities of mosquitoes.

• Temporal mosquito dynamics between the two cities during a six month study. (26 weeks)

• Establish baseline studies to conduct potential assessment of mosquito control interventions. (Insecticide Application)
Community Participation and Media Support for the Project
(McAllen, Texas)

Students from The University of Texas Rio Grande Valley in collaboration with the City of McAllen are conducting a research project consisting of monitoring mosquito populations in the area. Community participation will be an important part of the project since traps will be located within your neighborhood. Students will be in charge of maintaining mosquito traps and collecting data. The traps are harmless to people, animals, and the environment. If you would like to participate, or get more information, please call the City of McAllen Health & Code Enforcement at: (956) 681-1900

https://youtu.be/qM41XJ-z7l4?list=UUYzSBNey7F3Uwf9Vkg7cK5w
CITY OF McALEN AIRPORT AND SURROUNDING SAMPLING SITES

- Bentsen lakes

Red Dots Represent AGO Trap Locations
Green Sites Represent OVITRAP Locations
(Approximately 100 meters distance between traps)
CITY OF REYNOSA SAMPLING SITES IN 2 COLONIAS

Black Dots Represent AGO Traps
Red & Green Sites: OVITRAP Locations
(Approximately 100 meters distance between traps)
## McAllen AGO Traps Site 1

**Date:** 3/29/2017  
**Inspector:** Ae. Albo

<table>
<thead>
<tr>
<th>AGO Trap ID</th>
<th>Address</th>
<th>Ae. aegypti</th>
<th>Ae. albo.</th>
<th>Blood Fed Y/N</th>
<th>Notes</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Hermosa</td>
<td>Female</td>
<td>Male</td>
<td>Female</td>
<td>Male</td>
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<tr>
<td>AGO-001</td>
<td>2720 S 22nd St</td>
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<td>AGO-002</td>
<td>2816 S 22nd St</td>
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<tr>
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<tr>
<td>AGO-008</td>
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<td>AGO-009</td>
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<td>AGO-014</td>
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<tr>
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<td>23</td>
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<td>5</td>
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<td>AGO-017</td>
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<td>5</td>
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**Total**  
610 122 27 4 300

**Average**  
27.727 5.5455 1.2273 0.1818 13.636

**Median**  
23 4 1 0 12

**Standard Deviation**  
18.535 5.8613 1.6884 0.5011 14.295

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Adult Mosquito Data Sheet from AGO Traps in McAllen and Reynosa
Week 1 Mosquito Average Density

Week 2 Mosquito Average Density

SITE1
SITE2
SITE3
SITE4

0 5 10 15 20 25 30

Other
Ae. albo. - Male
Ae. albo. - Female
Ae. Aegypti - Male
Ae. Aegypti - Female
<table>
<thead>
<tr>
<th>Site</th>
<th>Week 3 Mosquito Average Density</th>
<th>Week 4 Mosquito Average Density</th>
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<tbody>
<tr>
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<tr>
<td>SITE2</td>
<td></td>
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<tr>
<td>SITE3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SITE4</td>
<td></td>
<td></td>
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</tbody>
</table>

- **Week 3**
  - **SITE1**: Other: 0, Ae. albo. - Male: 10, Ae. albo. - Female: 2, Ae. Aegypti - Male: 8, Ae. Aegypti-Female: 8
  - **SITE2**: Other: 0, Ae. albo. - Male: 10, Ae. albo. - Female: 2, Ae. Aegypti - Male: 8, Ae. Aegypti-Female: 8
  - **SITE3**: Other: 0, Ae. albo. - Male: 10, Ae. albo. - Female: 2, Ae. Aegypti - Male: 8, Ae. Aegypti-Female: 8
  - **SITE4**: Other: 0, Ae. albo. - Male: 10, Ae. albo. - Female: 2, Ae. Aegypti - Male: 8, Ae. Aegypti-Female: 8

- **Week 4**
  - **SITE1**: Other: 0, Ae. albo. - Male: 10, Ae. albo. - Female: 2, Ae. Aegypti - Male: 8, Ae. Aegypti-Female: 8
  - **SITE2**: Other: 0, Ae. albo. - Male: 10, Ae. albo. - Female: 2, Ae. Aegypti - Male: 8, Ae. Aegypti-Female: 8
  - **SITE3**: Other: 0, Ae. albo. - Male: 10, Ae. albo. - Female: 2, Ae. Aegypti - Male: 8, Ae. Aegypti-Female: 8
  - **SITE4**: Other: 0, Ae. albo. - Male: 10, Ae. albo. - Female: 2, Ae. Aegypti - Male: 8, Ae. Aegypti-Female: 8
UTRGV, MCALLEN & REYNOSA

Mosquito Identification and Biology Training by UTEP

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asalazar@mcallen.net

CDC-Mexican Health Ministry (CENAPRECE)