

# SALT LAKE CITY MOSQUITO ABATEMENT DISTRICT

## Executive Director's Report

May 2023

### 1. Personnel:

| Personnel |          |
|-----------|----------|
| Staff     | Seasonal |
| 12        | 26       |

| Type of Work              | 2023            | 3 - Year Average |
|---------------------------|-----------------|------------------|
| Adulticiding              | 12.25           | 3.08             |
| Wetlands / Rural          | 633.75          | 569.17           |
| Fish Culture              | 116.00          | 168.25           |
| Catch Basins / Gutters    | 200.00          | 276.67           |
| Tree Holes                | 121.25          | 165.17           |
| Prison                    | 36.75           | 0.00             |
| Service Request           | 14.00           | 31.00            |
| Traps                     | 368.25          | 385.33           |
| Laboratory                | 377.25          | 304.83           |
| Office / Administration   | 1,010.00        | 714.92           |
| Equipment Maintenance     | 303.00          | 299.67           |
| Facility Maintenance      | 322.25          | 264.17           |
| Training                  | 619.25          | 528.17           |
| Education                 | 65.50           | 1.50             |
| Unmanned Aerial System    | 170.75          | 0.00             |
| Other / Errands           | 193.00          | 158.83           |
| Comp. Time Used           | 10.00           | 67.83            |
| Vacation                  | 51.25           | 53.42            |
| Additional Hours/Overtime | 0.00            | 67.50            |
| Holiday                   | 0.00            | 32.00            |
| Sick Leave                | 30.00           | 47.83            |
|                           |                 |                  |
| <b>Total</b>              | <b>4,654.50</b> | <b>4,139.34</b>  |

### 2. Office Activities:

- Laboratory Director Bibbs met with Dr. Brad Willenberg from the University of Florida regarding a grant partnership through the AMCARF on 1 May 2023.

- Education Specialist Rehbein attended a Spring Into Safety Prime Time Safety Moment and a Loss Prevention webinar through the ULGT on 1 May 2023.
- Laboratory Director Bibbs and Education Specialist Rehbein conducted interviews for PHEFA EntSoc students on 2 May 2023.
- Executive Director Faraji, Assistant Director White, and Urban Field Supervisor Sorensen visiting with the Department of Public Safety and met with mechanics and pilots in regards to helicopter services on 2 May 2023.
- Executive Director Faraji and Education Specialist Rehbein met with Public Health Entomology for All students through the Entomological Society of America on 2 May 2023.
- Executive Director Faraji, Assistant Director White, aUrban Field Supervisor Sorensen, and Trustee Vickers conducted Architect interviews on 3 May 2023.
- Executive Director Faraji met with a PhD student from Dr. Cagan Sekercioglu's laboratories in regards to ornithological partnerships on 4 May 2023.
- Laboratory Director Bibbs attended a conference call with Dr. Eric Stapleton-Hass from Alameda MCD regarding a salinity project on mosquitos on 4 May 2023.
- Laboratory Director Bibbs conducted a phone call with Clarke Mosquito Control regarding laboratory setup on 5 May 2023.
- Education Specialist Rehbein, Urban Field Supervisor Sorensen, and Assistant Director White met with Bell Helicopters on 5 May 2023.
- Education Specialist Rehbein met with DOC and USCF staff about grant updates on 5 May 2023.
- Executive Director Faraji attended an Entomological Society of America section meeting for MUVE on 8 May 2023.
- Education Specialist Rehbein attended a webinar through the Ecological Society of America and Engineers & Scientists Acting Locally called Protecting Wetlands for Health Communities and Ecosystems on 8 May 2023.
- Laboratory Director Bibbs conducted a conference call with Benton County MCD regarding insectaries on 9 May 2023.
- Education Specialist Rehbein presented to three 3<sup>rd</sup> grade classes at Liberty Elementary School on 9 May 2023.
- Laboratory Director Bibbs and Assistant Director White attended a Cross COE IRM working group meeting on 11 May 2023.
- Education Specialist Rehbein met with Hogle Zoo staff regarding joint projects and mosquito surveillance/control on 11 May 2023.
- Education Specialist Rehbein attended a meeting with DOC Prison staff on 11 May 2023 and conducted an interview with KSL.
- The District hosted the annual Utah Mosquito Abatement Association Workshop meetings on 12 May 2023.
- Executive Director Faraji, Assistant Director White, Laboratory Director Bibbs, and Biologist Byers met with Dr. Graham Goodman from USU regarding collaborations on 12 May 2023.
- Executive Director Faraji, CFO Fairbanks, Education Specialist Rehbein, Trustee Mooers, and Trustee Vickers attended the AMCA Washington Conference on 16-18 May 2023.
- Executive Director Faraji and CFO Fairbanks met with Curtis Tonks from the ULGT regarding insurance policies on 22 May 2023.
- Education Specialist Rehbein attended a virtual Vector Biology seminar through PacVec on 24 May 2023.
- Assistant Director White met with Dr. Reiskind UNC regarding dog heartworm studies on 26 May 2023.
- Announou Sissoko from Mali visited the District on 27 May through 12 June 2023 to learn about integrated mosquito management.

- Executive Director Faraji met with representative from MHTN Architects on 30 May 2023.
- Education Specialist Rehbein attended a meeting with EntSoc staff regarding PHEFA on 30 May 2023.
- Executive Director Faraji conducted the Accredited Public Health Entomology Certification test for David Wright and Dan McBride on 31 May 2023.
- Education Specialist Rehbein met with DOC Prison staff to discuss pesticide applicator testing and repellents on 31 May 2023.

### 3. Shop/Field Activities:

- Vector surveillance is fully operational.
- Nzi and H-Traps have been placed at the Prison for Tabanid surveillance/control.
- Community garden fabrication is undergoing.
- Education Specialist / Safety Officer Rehbein conducted a safety meeting on heat illness on 26 May 2023.
- All equipment calibrations have been completed.
- Prison treatments continue with Rural crew assistance.
- All seasonal interviews have been completed.
- Drone applications continue.

### 4. Field Data:

#### Control:

#### ACRES TREATED

|                   | Adulticide |           | Larvicide |        | Total     |
|-------------------|------------|-----------|-----------|--------|-----------|
|                   | Ground     | Aerial    | Ground    | Aerial |           |
| May's Total       | 0.00       | 15,138.00 | 612.00    | 256.00 | 16,006.00 |
| May's 3 Year Avg. | 650.70     | 6,826.67  | 287.63    | 843.67 | 8608.67   |

#### Service Requests:

#### MOSQUITO SERVICE OPPORTUNITIES RECEIVED BY MONTH

|             | March | April | May   | June  | July  | Aug.  | Sept. | Oct.  | Total  |
|-------------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| 2023        | 1     | 14    | 35    |       |       |       |       |       |        |
| 3-Year Avg. | 3.33  | 10.00 | 30.00 | 41.33 | 29.00 | 25.33 | 17.33 | 26.67 | 183.00 |

## Inspection and Surveillance:

| <b>Larval Collections</b> |            |                       |
|---------------------------|------------|-----------------------|
| <b>Species</b>            | <b>May</b> | <b>5-Year Average</b> |
| <i>Ae. campestris</i>     | 0          | 1.2                   |
| <i>Ae. dorsalis</i>       | 70         | 71.4                  |
| <i>Ae. fitchii</i>        | 0          | 0                     |
| <i>Ae. increpitus</i>     | 7          | 5.6                   |
| <i>Ae. nigromaculis</i>   | 0          | 0.8                   |
| <i>Ae. niphadopsis</i>    | 0          | 0                     |
| <i>Ae. sierrensis</i>     | 0          | 2                     |
| <i>Ae. varipalpus</i>     | 0          | 0                     |
| <i>Ae. vexans</i>         | 0          | 2.4                   |
| <i>Cx. erythrothorax</i>  | 0          | 0.6                   |
| <i>Cx. pipiens</i>        | 6          | 22.4                  |
| <i>Cx. tarsalis</i>       | 64         | 69.6                  |
| <i>Cs. incidens</i>       | 7          | 22.8                  |
| <i>Cs. Inornata</i>       | 22         | 41                    |
| <i>An. Freeborni</i>      | 1          | 0.2                   |
| <b>Total</b>              | <b>177</b> | <b>240.0</b>          |

## 5. Weather:

May's weather was warmer (by 5.7°) and drier (by 1.3") than normal.

### Temperature:

|       | <b>Monthly Avg.</b> | <b>Normal</b> | <b>High</b> | <b>Low</b> |
|-------|---------------------|---------------|-------------|------------|
| April | 50.3°               | 51.8°         | 87°         | 27 °       |
| May   | 67.2°               | 61.5°         | 88°         | 43 °       |

<https://w2.weather.gov/climate/index.php?wfo=slc>

### Precipitation:

|       | <b>Total for Month</b> | <b>Normal</b> | <b>Most in 24 hours</b>   |
|-------|------------------------|---------------|---------------------------|
| April | 1.69"                  | 2.16"         | 0.55" on 3 <sup>rd</sup>  |
| May   | 0.52"                  | 1.82"         | 0.18" on 14 <sup>th</sup> |

<https://w2.weather.gov/climate/index.php?wfo=slc>

### Great Salt Lake (elevation in feet above sea level):

|      | <b>April 1</b> | <b>May 1</b> | <b>June 1</b> |
|------|----------------|--------------|---------------|
| 2022 | 4,191.1        | 4,191.0      | 4,190.8       |
| 2023 | 4,191.4        | 4,192.6      | 4,193.8       |

<https://waterdata.usgs.gov/monitoring-location/10010024/#parameterCode=62614&period=P7D>

| Arbovirus           | Corresponding Author  | Other Authors  | Date Submitted | Reviewer 1        | Status         | Reviewer 2        | Status         | Decision     | Date      | Accepted  |
|---------------------|-----------------------|--|----------------|-------------------|----------------|-------------------|----------------|--------------|-----------|-----------|
| Everglades Virus    | Nathan Burkett-Cadena | Durland Fish, Scott Weaver, Amy Vittor   | 3-Mar-23       | XXX - recommended | Minor Revision | XXX               | Minor Revision | Minor Accept | 10-Apr-23 | 27-May-23 |
| Cache Valley Virus  | Amanda Calvert        | Holly Hughes, Joan Kenney  | 8-Mar-23       | XXX               | Minor Revision | XXX               | Minor Revision | Minor Accept | 10-Apr-23 | 26-Apr-23 |
| Jamestown Canyon    | Phil Armstrong        | John Shepard   | 16-Mar-23      | XXX               | Minor Revision | XXX               | Minor Revision | Minor Accept | 1-May-23  | 27-May-23 |
| Bourbon Heartland   | Alex Ciota            | Alan Dupuis, Rachel Lange  | 21-Mar-23      | XXX               | Minor Revision | XXX               | Minor Revision | Minor Accept | 20-Apr-23 | 3-May-23  |
| La Crosse           | Corey Day             | Brian Byrd, Rebecca Trout  | 23-Mar-23      | XXX               | Accept         | XXX               | Minor Revision | Minor Accept | 11-Apr-23 | 27-May-23 |
| Powassan            | Doug Brackney         | Chantal Vogel  | 24-Mar-23      | XXX - recommended | Minor Revision | XXX               | Minor Revision | Minor Accept | 27-May-23 |           |
| Colorado Tick Fever | Greg Ebel             | Brian Foy, Emma Harris   | 24-Apr-23      | XXX - recommended | Accept         | XXX - recommended | Minor Revision | Minor Accept | 27-May-23 |           |
| ORB (EHD, BT, AHS)  | Lee Cohnstaedt        | Amy Hudson, Bethany McGregor, Philip Schults, Marion England, Constance Silbernagel, Christie Mayo, Molly Carpenter, Tyler Sherman, Lee Cohnstaedt | 4-May-23       | XXX - recommended | Minor Revision | XXX - recommended | Major Revision | Minor Accept | 27-May-23 |           |
| Rift Valley Fever   | Seth Gibson           | Seth Gibson, Ken Linthicum, Dana Mitzel, Leela Noronha, Chad Mire, Lee Cohnstaedt, William Wilson  | 1-May-23       | XXX               | Accept         | XXX               | Minor Revision | Minor Accept | 4-Jun-23  |           |
| Snowshoe Hare       | Tom Yuill             | Mike Drebot? Barry Beaty?  | 1-Jun-23       | XXX               | Major Revision | XXX               |                |              |           |           |

|                       |                                     |                                  |   |
|-----------------------|-------------------------------------|----------------------------------|---|
| Japanese Encephalitis | Cameron Webb<br>Andrew van den Hurk | Aussies                          | Authors are NOT responding to emails. <b>DROPPED like Vegemite</b>  |
| Murray Valley         | Cameron Webb<br>Stephen Doggett     | Aussies                          | Authors are NOT responding to emails. <b>DROPPED like Vegemite</b>  |
| Kunjin virus          | Cameron Webb<br>Stephen Doggett     | Aussies                          | Authors are NOT responding to emails. <b>DROPPED like Vegemite</b>  |
| Highlands J           | Ann Powers                          | CDC; Scott O'Neill? John Howard? | Ann Powers never responded to anything. <b>DROPPED like funding</b>   |
| Venezuelan            | Patricia Aguilar                    | UTMB                             | No response to emails since January 2023.<br>Responded on 3 April 2023 saying "We have published a review on VEEV before for another journal, so I am afraid writing a review on the same topic is not ideal since there has not been a significant new development in the field." <b>DROPPED like a bad relationship</b> |