

SALT LAKE CITY MOSQUITO ABATEMENT DISTRICT

Executive Director's Report

December 2024

1. Personnel:

Personnel	
Staff	Seasonal
12	4

Type of Work	2024	3 - Year Average
Adulticiding	0.00	0.00
Wetlands / Rural	.50	1.33
Fish Culture	67.00	40.08
Catch Basins / Gutters	0.00	0.00
Tree Holes	0.00	0.00
Prison	18.00	0.50
Service Request	0.00	0.00
Traps	12.00	18.58
Laboratory	198.25	187.50
Office / Administration	870.50	811.92
Equipment Maintenance	245.00	233.67
Facility Maintenance	206.25	163.50
Training	52.25	2.33
Education	66.50	19.92
Unmanned Aerial System	4.00	9.50
CSU Grant	19.00	55.67
Other Grants	Not Recorded	0.00
Other / Errands	33.00	124.17
Comp. Time Used	146.25	80.58
Vacation	96.75	123.25
Additional Hours	0.00	5.08
Holidays	276.00	80.00
Sick Leave	46.25	70.08
Total	2,357.50	2,027.66

2. Office/Lab Activities:

- Executive Director Faraji attended a bi-weekly meeting of the Rockies and High Plains Vector-borne Diseases Center on 2 December 2024.
- Executive Director Faraji and members of staff attended an American Mosquito Control Association webinar on 3 December 2024.
- Executive Director Faraji attended a webinar by the Pacific Southwest Center of Excellence in Vector-Borne Diseases on 3 December 2024.
- Executive Director Faraji attended a virtual meeting with Dr. Ivy Hurwitz at the University of New Mexico on 3 December 2024.
- Executive Director Faraji attended the monthly managers meeting for the Utah Mosquito Abatement Association in Tooele on 4 December 2024.
- Members of the staff and Board attended the District annual holiday luncheon on 4 December 2024 at the facility.
- Executive Director Faraji and members of staff attended the weekly meeting of the Owner/Architect/Engineers on 4 December 2024.
- Executive Director Faraji attended a virtual meeting with Dr. Alex Ko regarding the Medical/Urban/Veterinary Entomology branch of the Entomological Society of America on 5 December 2024.
- Executive Director Faraji conducted his airport badging for Salt Lake City International Airport on 6 December 2024.
- Executive Director Faraji, Assistant Director White, and Education Specialist Rehbein visited a local horse stable on 6 December 2024.
- Executive Director Faraji attended and presented the keynote address for the Louisiana Mosquito Control Association on 11 December 2024.
- Executive Director Faraji attended the MSc committee meeting for Melissa Clawson at Texas Tech University on 18 December 2024.
- Members of staff attended the Utah Mosquito Abatement Association annual holiday luncheon on 18 December 2024.
- Executive Director Faraji and members of staff attended the weekly meeting of the Owner/Architect/Engineers on 18 December 2024.

Assistant Director White:

Listen to AMCA webinar about insecticide resistance – 12/3
Work on IVCC proposal about using UAVs in Kenya – 12/4 to 12/12
Review CO2 regulator paper – 12/5
Received AMCA Research Grant with Norah Saarman – 12/5
Attend DSLASA quarterly meeting – 12/10
Review Mendoza ULV modeling paper – 12/19
Collect MAKD data from Teton County – 12/20
Work on UAV part 107 certificate (UAV pilot certificate) – 12/17 to 12/31
Help Thomas and Ella with mosquito processing questions – 12/27 to 12/31

Call with Jason Bird about drone ULV potential – 12/2
RaHP calls – 12/2, 12/9, 12/16, 12/17
Call with Qiagen Technical Rep about RNA extraction – 12/3
UMAA Managers Meeting – 12/4
Call with Peter Brake about drone ULV potential – 12/4
Call with Haley Johnson from Valent about drone ULV applications – 12/9

CFO Fairbanks:

- 6 December 2024: Talked with John about Medicare insurance and briefly discussed his possible retirement.
- 9 December 2024: Participated in a webinar for my CPA continuing education credits on Creative Leadership.
- 10 December 2024: Participated in a webinar for my CPA continuing education credits on Microsoft Excel Basics.
- 24 December 2024: After submitting the required 80 hours of continuing education, I renewed my CPA license.
- 5 December 2024: Met with Curtis Tonks, ULGT, about the helicopter insurance quote.

Aerial Operations Supervisor Sorensen:

Worked on feasibility study of ULV treatments from UAS

Worked on construction project needs

Worked on ordering items for helicopter program

Looked up info on UAS from new manufacturer (j100)

Minor maintenance and cleaning on drone trucks

Completed EuroSafety online ground training for the H125

Finalized Building Permits with SLC

Eckman started prepping site for construction, but wont really start until Jan.

12/2 Virtual Meeting with Jason Bird and Greg White about ULV by UAS

12/4 Virtual Meeting with Peter Brake – Frontier Precision

12/4 Construction Meeting with Architects, Owners Rep, and General Contractor

12/5 Curtis Tonks brought by helicopter insurance info

12/9 Phone Call with Haley Johnson – Valent Bioscience

12/18 Construction Meeting with Architects, Owners Rep, and General Contractor

Talked about fuel tank with Ted Soffe - Westech

12/19 Board Meeting

Laboratory Director Bibbs:

Dec 2	Review on IVCC collaboration submission w/ Kenya; larvicide repellency manuscript edits w/ Kai; recommendation letter Irvane Nelson for German Academic Exchange Service
Dec 3	Study 6726 (Methoprene bioassays in varying cup materials) data entry, probit analysis, and final report drafted for CLS
Dec 4	Finalizing CV and personal statement for ESA: PAB early career award application;
Dec 5	Public Health Career Fair (University of Utah)
Dec 6	Call w/ Ilia on Mali project; Call w/ CLS on Methoprene projects; regulator evaluation manuscript edits and submission; larvicide oviposition manuscript edits (w/ Kai); Tox manuscript edits
Dec 9	Writing training and manuscript edits w/ Kai and James; AMCARE update call w/ Brad Willenberg, AMCARE final report; Ent Soc Pacific Branch abstract submissions for 2025; heartworm paper edits for Nate-alie
Dec 10	License exams (core, public health, demonstration); review for JAMCA; drafting a "capacity" profile for SLCMAD facilities
Dec 11	Finalized submission packet for MDPI-Insects Young Investigator award application; Rowland Hall high school internship meeting w/ Michele
Dec 12	Resubmitting JIS manuscript for mosquito estimation methods; Call w/ Ella (USM) and St. Tammany Parish

Dec 13	Helping Ella (MSU) with travel grants and conference abstracts; helping Amy with Methoprene historical review, public health significance of larvicides, and resistance monitoring literature; Recommendation letter for Maggie Liu (UC Davis Undergraduate Research Program)
Dec 16	BYU rec letter for Christian Furness; reviewer comments and manuscript edits for naled modeling manuscript (J ASABE) and naled bee study (Sci Tot Environ)
Dec 17	Info call w/ Ted Burgess (UF); sorting mosquitoes for anthrone and plant DNA assays; scanning and copy-editing <i>An. gambiae</i> in Brazil book
Dec 23	Manuscript review for J Pest Science; final edits and submission for larvicide ovideterrent manuscript
Dec 24	Anthrone and plant DNA extraction tests with Ella/Thomas; honey bee paper edits for Sci Total Environ (w/ Jenna); interview prep materials for Michele (EntSoc mentee program); final edits and submission for Tox predation manuscript for J Animal Ecology

Molecular Biologist Byers:

Improved my skills with Google earth to create effective location graphics for presentations
 Started utilizing Zotero for improved citation management
 Expanded my ImageJ skills to help Ella quantify UV absorbance of plants
 Figured out and used the new plate reader

Presented summary of RaHPVec aerial evaluation to RaHPVec collaborators 12/16
 Met with Ted Burgess and Chris about collaborating on *Dirofilaria* work and on DNA analysis of sugar meals 12/17

Education Specialist Rehbein:

- Dr. Rehbein submitted an abstract to present at the UPHA conference next spring on 2 December.
- Dr. Rehbein worked on edits for the *Dirofilaria* manuscript on 3 December.
- Dr. Rehbein, Dr. White, and Dr. Faraji went to Double Diamond Hill Ranch to shoot some mosquito control operation photos on horseback on 6 December.
- Dr. Rehbein submitted an abstract for the EntSoc Pacific Branch meeting in 2025 on 12 December.
- Dr. Rehbein was invited to sign up as a co-organizer of the City Nature Challenge event for 2025 with Ellen Eiriksson (NHMU) on 13 December.
- Dr. Rehbein continued to work on tasks for the 2024 Western IPM Center grant prison project throughout the month (edits/reviewing presentations, transcripts for later recording, least chub fish prep, etc.).
- Dr. Rehbein continued creating social media outreach and content, as well as some updated outreach materials for the following mosquito season throughout the month.
- Dr. Rehbein attended an AMCA webinar on 3 December.
- Dr. Rehbein attended a PacVec seminar on 3 December.
- Dr. Rehbein and Dr. Bibbs attended and tabled at the Public Health Career Fair at the University of Utah on 5 December.
- Dr. Rehbein and Dr. Bibbs had a phone call with Laura Johnson, internship program coordinator, from Rowland Hall on 11 December to discuss getting their high school student involved at SLCMAD.

- Dr. Rehbein and Evelyn Acosta met with Craig Wallentine (UPHE) and Tena Rohr (Audubon) to discuss the least chub and ways to use it as a biological control in the future on 13 December.
- Dr. Rehbein attended a Jordan River Commission Technical Advisory Committee meeting on 19 December.

Rural Field Supervisor Hardman:

Work on U of U blower, work on herd seeder plates and dipper clips, clean, prep and paint trailers F and J, clean and replace trailer locks
Regular winter clean up

3. Shop/Field/Dormitory Activities:

- Winter maintenance continues.
- Boilers have been serviced.
- Most seasonal staff were off during the month of December but some will return to work part-time to assist with insectary and other duties.

4. Weather:

December's weather was Warmer (by 5.2°) and drier (by 0.28") than normal.

Temperature:

	Monthly Avg.	Normal	High	Low
November	40.9°	41.7°	69°	25 °
December	37.4°	32.2°	54°	23 °

<https://www.weather.gov/wrh/Climate?wfo=slc>

Precipitation:

	Total for Month	Normal	Most in 24 hours
November	1.22"	1.32"	0.50" on 12 th
December	1.12"	1.40"	0.29" on 25 th

<https://www.weather.gov/wrh/Climate?wfo=slc>

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

	Nov 1	Dec 1	Jan 1
2023 & 2024	4,192.1	4,192.3	4,192.6
2024 & 2025	4,192.2	4,192.2	4,192.5

<https://waterdata.usgs.gov/monitoring-location/10010000/#parameterCode=62614&period=P7D&showMedian=true>