

### COUNCIL STAFF REPORT

Item Schedule:

Briefing: October 15, 2024

Potential Action: n/a

Public Hearing: October 15, 2024

CITY COUNCIL of SALT LAKE CITY

**TO:** City Council Members

**FROM:** Austin Kimmel

**Public Policy Analyst** 

**DATE:** October 15, 2024

RE: MOSQUITO ABATEMENT DISTRICT PROPERTY TAX REPORT

**Proposed Tax Increase in 2025** 

#### **ISSUE AT-A-GLANCE**

Salt Lake City Mosquito Abatement District (SLCMAD) is reporting on its plan to increase property taxes for Salt Lake City residents, intended to take effect in 2025. SLCMAD states that the tax increase is necessary due to inflationary increases on supplies and mosquito abatement services, to fund the construction of new infrastructure and facilities (Phase II), the acquisition of a helicopter for in-house aerial treatment applications, and day-to-day operational expenses.

The increase would generate \$1,370,667 in additional revenue for the District and is needed because the annual "new growth" revenue has not kept pace with inflation. Although the percentage increase to the certified tax rate is high, 19.7%, the impact to an average valued-residential property is \$0.83 cents per month or \$9.95 per year. For businesses, the impact for each \$1 million in value is \$2.42 per month or \$29.00 per year.

	Current	Proposed				
	2024	2025		Difference		
Certified Tax Rate:	0.000147	0.000176		0.000029	19.7%	
Total Tax Revenue	7,029,062	8,399,	729	1,370,667	19.5%	
Increase to Property Owners	- ANNUAL					
Residential Property -						
Average Value of \$623,900	\$ 50.44	\$ 60	).39	\$ 9.95	19.7%	Note: monthly increase is \$0.83
Commercial Property-						
Average Value of \$1m	\$ 147.00	\$ 176	6.00	\$ 29.00	19.7%	Note: monthly increase is \$2.42



The 2025 proposed budget that the District submitted is anticipating a relatively flat budget through the coming fiscal year (calendar year 2025), because any property tax revenue from the increase would affect their 2026 fiscal year.

A few options for smaller increases to the certified tax rate were considered, but after additional review, the Board supported the current proposal a larger increase. The proposed budget would also and recognize interest income benefits from investing the money as well.

The Salt Lake City Council serves as the appointing Legislative body, which appoints members to the SLCMAD Board. According to State Code, information is shared with the Council as the elected officials, but the Council's roles is not to make final policy or budget decisions for the District. Those decisions, along with its operations, are made by SLCMAD Board of Trustees and staff.

**Goal of the briefing:** to fulfill requirements set forth by state law, which mandate that the Salt Lake City Mosquito Abatement District inform the City Council of its intention to pursue a tax increase. State Code also requires that the Council take an opportunity for public comment before proceeding with a public hearing and vote by the District Board of Trustees.

#### **POLICY QUESTIONS**

- 1. Although the District has the authority to propose and execute property taxes, the Council may raise some questions about timing. Several other tax increases are on the horizon from other taxing entities (County, School, sales tax, etc.), and the Council has considered the impact of all these on property owners.
- 2. The Council may ask about changes the District is making to operations, how the helicopter and other purchases may affect their budget, including any efficiencies or cost-savings that could be realized.
- 3. The Council may ask for an update on construction plans, Phase II.
- 4. The Council could ask the District to expand on how it intends to notify Salt Lake City residents of its proposed tax rate increase and opportunities for input.

#### ADDITIONAL AND BACKGROUND INFORMATION

The proposed 2025 tax increase would provide SLCMAD with additional revenue to increase the efficiency and effectiveness of mosquito control efforts in Salt Lake City while keeping up with inflation. SLCMAD states that it has experienced cost challenges due to inflation and double-digit increases in the consumer price index (CPI) at a rate of 19.4%. While the city has experienced new growth, SLCMAD states that new growth has only captured a 6.63% increase in revenues over the last three years.

In addition to the challenges faced by rising costs, SLCMAD plans to boost its capabilities by expanding its facilities and developing a new in-house aerial operation program. The expanded facilities would allow the District to increase its surveillance and control programs, provide laboratory and field research capabilities, and house its future aerial operations.

SLCMAD currently relies on contracted aerial services based out of Ogden Airport, which uses fixed-wing aircraft for mosquito control operations. However, the District plans to transition to an in-house aerial program by purchasing a helicopter and increasing unmanned aerial systems. SLCMAD expects this will provide the District with greater control over treatment applications compared to that of fixed-wing aircraft, leading to more targeted and effective mosquito control efforts which will reduce adult mosquito control applications.

The Salt Lake City Mosquito Abatement District (SLCMAD) is a Special Service District with its own mission, bylaws, taxing status, and governing authority. Its board members are appointed by the City Council, and as a non-elected Board, the Salt Lake City Council serves as its legislative body. The SLCMAD Board of Trustees is responsible for overseeing the District's budget, mission, and daily mosquito abatement activities related to public health and nuisance hazards. It may also take all necessary and proper steps to exterminate of mosquitoes, flies, crickets, grasshoppers, and other insects and to abate as nuisances all stagnant pools of water or other breeding places.

### Salt Lake City Mosquito Abatement District Tax Increase Formulas

Determining Tax Increase Amounts			
2024 Salt Lake County Assessor Average Home Value in SLC	\$623,900.00		
Utah Residential Exemption (45%) Discount	0.45		
Discount Amount (Home Value x 0.45)	\$280,755.00		
Taxable Value	\$343,145.00		
2024 Certified Tax Rate (Adopted 20 June 2024)	0.000147		
Annual Residential Tax to SLCMAD (Taxable Value x CTR)	\$50.44		
Monthly Residential Tax to SLCMAD (Annual Tax / 12)	\$4.20		
2024 PROPOSED Tax Increase Percentage (19.5%)	0.195		
2024 Additional Annual Residential Tax (Annual Residential Tax * 0.195)	\$9.84		
Total New Annual Residential Tax (Annual Residential Tax + Additional Annual Tax)	\$60.28		
Total New Monthly Residential Tax to SLCMAD (New Annual Tax / 12)	\$5.02		

Determining New Certified Tax Rates (Monthly)				
2024 Taxable Value	\$343,145.00			
2024 Current Annual Tax	\$50.44			
Current CTR (Annual Tax / Taxable Value)	0.000147			
2024 PROPOSED Annual Residential Tax	\$60.28			
New PROPOSED CTR (Annual Tax / Taxable Value)	0.000176			
Determining New Revenue Amounts				
(Annual Budget)				
2024 Certified Tax Rate (Adopted 20 June 2024)	0.000147			
2024 Final Budget Revenue (Adopted 20 June 2024)	\$7,029,062.00			
2024 PROPOSED Tax Increase Percentage (19.5%)	0.195			
2024 PROPOSED Additional Revenues (Final Budget Revenue * Proposed Tax Increase %)	\$1,370,667.09			
2025 NEW PROPOSED Budget Revenues (2024 Final Budget Revenue + Proposed Additional)	\$8,399,729.09			



### Salt Lake City Mosquito Abatement District



2024 Amended Budget & 2025 Proposed Budget (20 June 2024)

GENERAL FUND BUDGET					
	2024 Adopted (Dec 2023)	2024 Amended (Jun 2024)	2025 Proposed (Jun 2024)		
Revenues					
3810 Previous Year Fund Balance	816,644	0	1,407,857		
3110 Property Tax	6,819,257	6,819,257	7,029,062		
3115 Fee in Lieu	260,000	260,000	260,000		
3610 Interest Earnings	360,000	367,000	367,000		
3640 Sale of Fixed Assets	5,000	25,000	5,000		
3650 Prison Abatement Services	300,000	300,000	300,000		
3690 Miscellaneous Revenue	1,000	1,000	1,000		
3691 RDA SLC	150,000	253,000	253,000		
3693 RDA Adjustment (Book Entry Only)	561,000	2,000,000	2,000,000		
3695 Grants	380,000	109,000	100,000		
3696 Grant: CDC/CSU/RaHP VEC	0	280,000	197,500		
3811 Transfer from CPF	0	0	0		
Total Anticipated Revenues	9,652,901	10,414,257	11,920,419		
Disbursements					
Administration	3,340,000	4,841,800	4,917,729		
Shop & Equip. Maintenance	916,000	913,600	685,500		
Spraying	1,201,000	1,251,000	1,401,000		
Contribution to Fund Balance	895,901	1,407,857	1,616,190		
Transfer to Capital Projects Fund	3,300,000	2,000,000	3,300,000		
Total	9,652,901	10,414,257	11,920,419		

### Salt Lake City Mosquito Abatement District General Fund

2024 / 2025 Budgets (20 June 2024)

GENERAL FUND BUDGET DISBURSEMENT BREAKDOWN				
	2024 Budgeted (December 2023)	2024 Amended (June 2024)	2025 Proposed (June 2024)	
Administration		,	,	
41110 Salaries & Wages	1,722,000	1,752,000	1,814,079	
41130 FICA Taxes	132,000	135,000	139,000	
41131 Retirement & 401(k)	307,400	307,400	310,000	
41132 Medical Insurance	260,000	255,000	265,000	
41133 Disability Insurance 41135 Workers Compensation Insurance	8,600 30,000	8,400 15,000	8,650 16,000	
41136 Unemployment Insurance	1,000	1,000	1,000	
41210 Memberships/Permits/Subscriptions	18,000	18,000	18,000	
41220 Public Notices	1,000	10,000	1,000	
41230 Travel & Conventions	70,000	70,000	70,000	
41240 Office Supplies/Equipment/Printing/Postage	8,000	8,000	8,000	
41250 Office Equipment Maintenance & Repair	4,000	4,000	5,000	
41252 Computer/GPS/IT Software/Hardware	40,000	41,000	45,000	
41254 Drones	25,000	25,000	25,000	
41280 Telephone / Internet	17,000	17,000	17,000	
41282 Mobile Telephones 41311 Financial Audit	20,000	20,000	20,000	
41311 Financial Audit 41312 Legal Services / Professional Services	10,000 14,000	10,000 14,000	10,000 14,000	
41330 Education	18,000	18,000	18,000	
41335 Aerial Operations	0	40,000	40,000	
41510 Liability Insurance	26,000	26,000	26,000	
41511 Property/Fire/Inland Marine Insurance	36,000	36,000	36,000	
41530 Interest Expense	1,000	1,000	1,000	
41600 Credit Card Bank Rebates	-8,000	-8,000	-8,000	
41610 Miscellaneous Expense	4,000	4,000	4,000	
41611 Board Meetings	4,000	4,000	4,000	
41745 RDA Adjustment Expense (Book Entry Only)	561,000	2,000,000	2,000,000	
41750 DSLASA	10,000	10,000	10,000	
	0.040.000			
Total Administration	3,340,000	4,841,800	4,917,729	
Shop and Equipment Maintenance				
Shop and Equipment Maintenance 42250 Equipment Maintenance & Repairs	25,000	25,000	25,000	
Shop and Equipment Maintenance 42250 Equipment Maintenance & Repairs 42251 Gasoline, Fuels and Oils			25,000 30,000	
Shop and Equipment Maintenance 42250 Equipment Maintenance & Repairs	25,000 30,000	25,000 30,000	25,000 30,000 17,000	
Shop and Equipment Maintenance 42250 Equipment Maintenance & Repairs 42251 Gasoline, Fuels and Oils 42252 Shop Supplies 42253 Uniforms 42254 Safety & Welfare Expense	25,000 30,000 17,000 15,000 12,000	25,000 30,000 17,000 15,000 10,000	25,000 30,000 17,000 15,000	
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Shop and Equipment Maintenance 42250 Equipment Maintenance & Repairs 42251 Gasoline, Fuels and Oils 42252 Shop Supplies 42253 Uniforms 42254 Safety & Welfare Expense 42255 Equipment Lease 42260 Building Maintenance and Repairs 42270 Electrical Power 42271 Natural Gas Heating 42272 Garbage Removal 42273 Water & Sewer 42510 Vehicle Insurance (Liability) 42610 Miscellaneous Shop & Equipment Expense 42620 Security Alarm Monitoring 42740 Equipment & Vehicles 42741 Scientific Research Publication 42750 CDC/CSU/RaHP VEC Grant 42751 Grants & Research 42752 Laboratory & Surveillance 42753 Molecular Laboratory 42755 Fish Rearing & Maintenance 42760 Beehive Expense  Total Shop and Equipment Maintenance  Spraying 43410 Spraying Materials 43621 Contracted Airplane Spraying 43740 Small Spraying Equipment Total Spraying	25,000 30,000 17,000 15,000 12,000 1,000 35,000 45,000 40,000 3,000 7,000 5,000 1,000 3,000 45,000 40,000 40,000 40,000 40,000 40,000 40,000 40,000 40,000 40,000 40,000 40,000 40,000 40,000 40,000 40,000 41,000 41,000 41,000 41,000 41,000 41,000 41,000 41,000 41,000 41,000	25,000 30,000 17,000 15,000 1,000 1,000 35,000 42,000 43,000 3,000 7,000 5,000 0 3,000 175,000 10,000 280,000 47,000 47,000 4,000 4,000 1,000 913,600 1,000 250,000 1,000 1,000	25,000 30,000 17,000 15,000 10,000 1,000 35,000 42,000 43,000 7,000 5,000 0 3,000 45,000 100,000 45,000 47,000 47,000 47,000 47,000 47,000 47,000 41,000 1,000 1,000 1,000 1,000 1,000	

### Salt Lake City Mosquito Abatement District Capitol Projects Fund

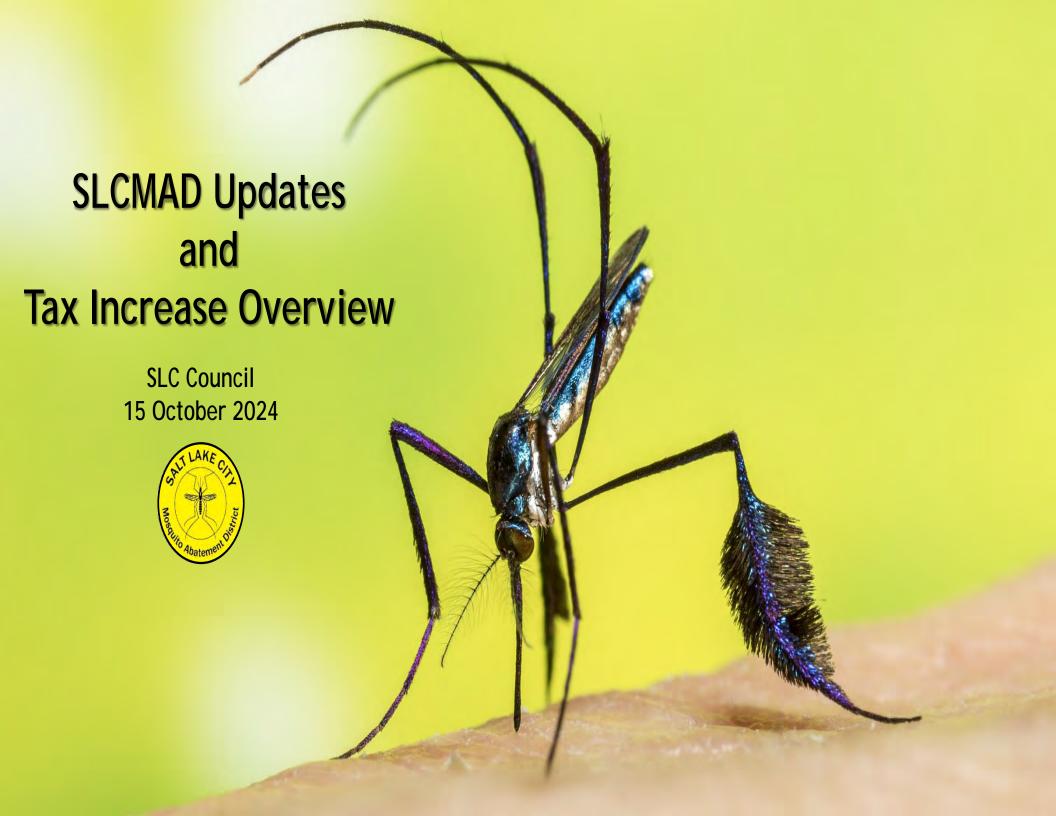
2024 / 2025 Budgets (20 June 2024)

CAPITAL PROJECTS FUND					
	2024 CPF Budgeted (Dec. 2023)	2024 CPF Amended (Jun. 2024)	2025 CPF Proposed (Jun. 2024)		
Revenues					
Use of Previous Year Fund Balance	11,118,324	11,277,836	10,031,686		
45-3610 Interest	300,000	475,000	500,000		
45-3810 Transfer from General Fund	3,300,000	2,000,000	3,300,000		
Total Revenue	14,718,324	13,752,836	13,831,686		
Disbursements					
4540745 New Facility Construction	2,500,000	2,500,000	500,000		
4540746 New Facility Equipment	10,000	10,000	10,000		
4540820 Transfer to LBA - Bond Expenses	1,211,150	1,211,150	1,212,125		
4540815 Transfer to General Fund	0	0	0		
Total Disbursements	3,721,150	3,721,150	1,722,125		
Committed Reserves					
Extra-Ordinary Control	300,000	300,000	300,000		
Vacation/Sick Leave/Retirement	235,000	270,000	280,000		
Long-Term Facility Maintenance	75,000	75,000	75,000		
Emergency Equip/Vehicle Replacement	100,000	100,000	100,000		
Facility Building Additions	30,000	30,000	30,000		
Contingencies	35,000	0	0		
Total Dedicated Reserves	775,000	775,000	785,000		
Remaining Fund Balance	10,222,174	9,256,686	11,324,561		
Total Disbursements/Reserves/Fund	14,718,324	13,752,836	13,831,686		

### Salt Lake City Mosquito Abatement District Local Building Authority

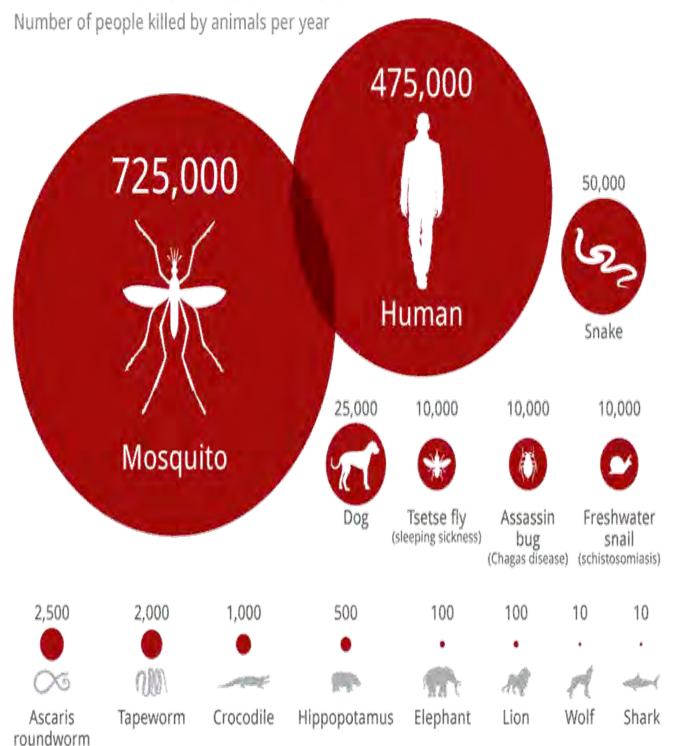
2024 / 2025 Budgets (20 June 2024)

LOCAL BUILDING AUTHORITY					
	2024 Budgeted (Dec. 2023)	2024 Amended (Jun. 2024)	2025 Proposed (Jun. 2024)		
Revenues					
Transfer from Capital Projects Fund					
Transferred to pay Bond & Expenses	1,211,150	1,211,150	1,212,125		
Interest Income	2,000	5,000	5,000		
Use of Previous Fund Balance	2,035	2,309	7,309		
Total Revenue	1,215,185	1,218,459	1,224,434		
Disbursements					
Bond Payments:					
3-7200 2017 Bond Interest Payments	364,000	364,000	351,600		
3-7220 2017 Bond Principal Payments	305,000	305,000	315,000		
3-7260 2020 Bond Interest Payments	162,150	162,150	150,525		
3-7270 2020 Bond Principal Payment	380,000	380,000	395,000		
Total Disbursements	1,211,150	1,211,150	1,212,125		
Contribution to Fund Balance	4,035	7,309	12,309		
Total Disbursements/Reserves/Fund	1,215,185	1.218.459	1,224,434		





### The World's Deadliest Animals



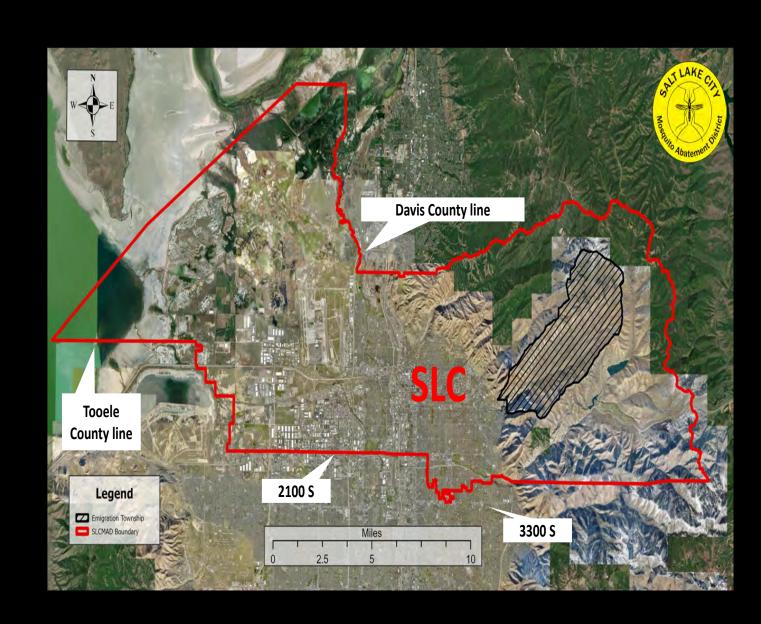
### **SLCMAD**

1923

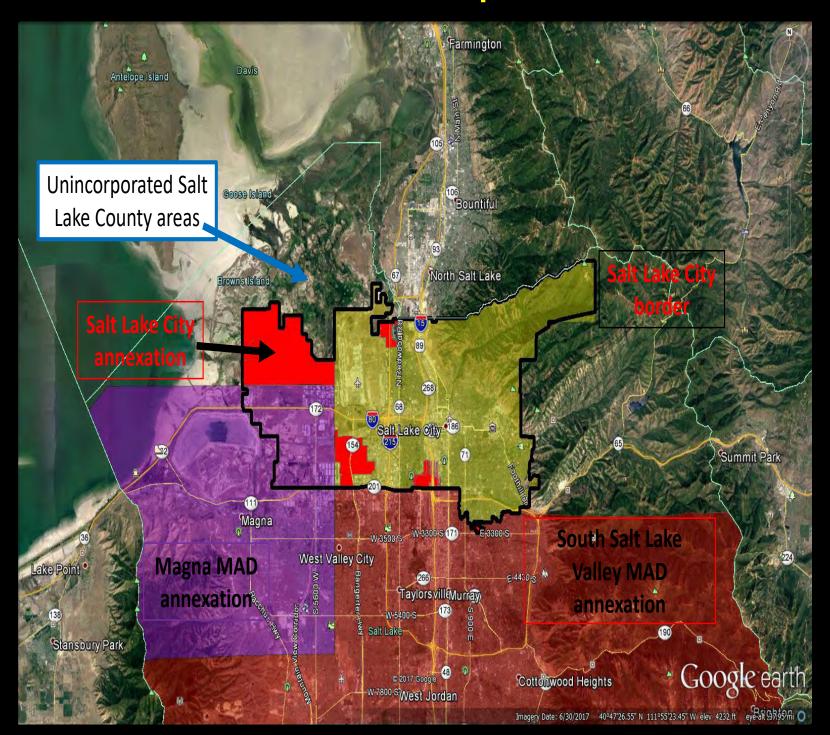
Independent Tax Special District

~180 miles<sup>2</sup> (Service Area)

~240 miles<sup>2</sup> (Greater Boundary)



# **Annexation Updates**





### **SLCMAD** Board of Trustees



Dr. Shireen Mooers
Board Chair (D6)
Retired Pediatrician



Amanda Barth Board Vice Chair (D7) Utah Rare Insect Coord.



Luz Escamilla
District 1
Utah State Senator



Van Turner
District 2
Businessman/Past Council



Neil Vickers, PhD
District 6
UoU Bio Professor

### Past Notable Board of Trustees



Ray Uno Judge



Dr. Dagmar Vitek Medical Director SLCHD



Karen Okabe Deputy Mayor SLCO

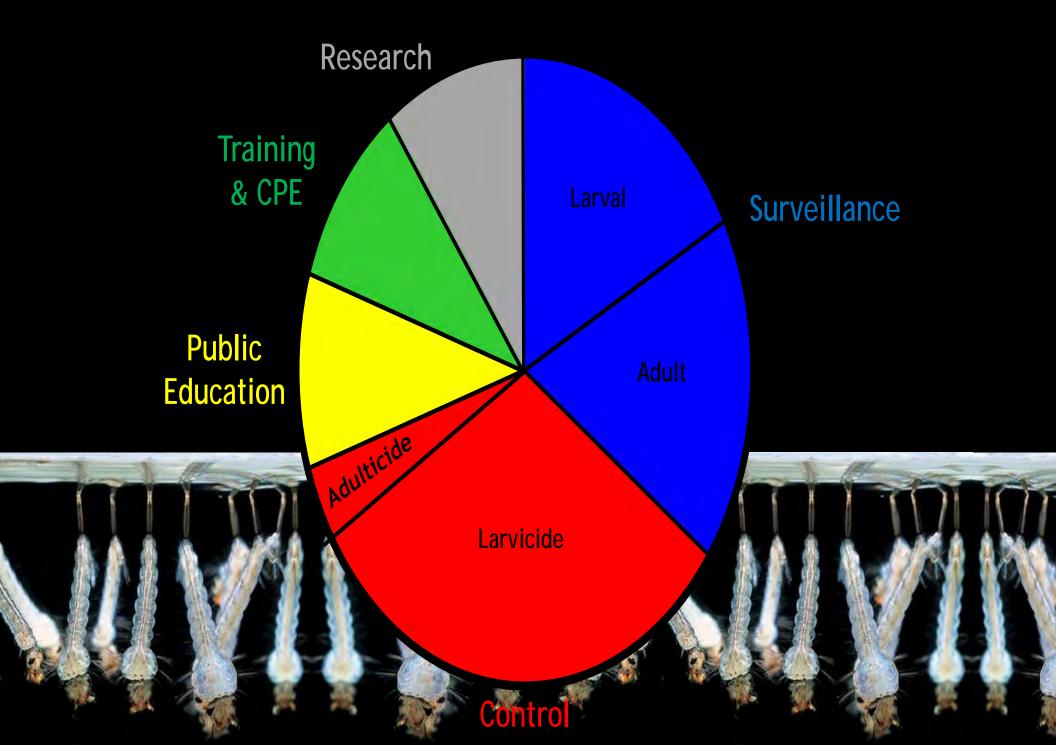


Carlton Christensen UTA, RDA, Past Council



LaVone Liddle Judge

# Integrated Mosquito Management



### Surveillance

#### PLOS NEGLECTED TROPICAL DISEASES

#### OPEN ACCESS

Citation: Bibbs CS, Reissen N, Dewsnub MA, Sorensen RB, Faraji A, White GS (2024) Do it yourself: 3D-printed miniature CDC trap for adult mosquito (Diplera: Culicidae) surveillance. PLoS Negl Trop Dis 18(1): e0011899. https://doi.org/ 10.13/1/journal.pnld.0011899 RESEARCH ARTICLE

Do it yourself: 3D-printed miniature CDC trap for adult mosquito (Diptera: Culicidae) surveillance

Christopher S. Bibbso\*, Nadja Reissen, M. Andrew Dewsnup, R. Bradley Sorensen, Ary Faraji, Gregory S. White

Journal of the American Mosquito Control Association, 39(4):231–235, 2023 Copyright © 2023 by The American Mosquito Control Association, Inc.

DO IT YOURSELF: A MODERNIZED GRAVID TRAP DESIGN FOR MOSQUITO SURVEILLANCE

M. ANDREW DEWSNUP, THOMAS D. WIDMER, ELLA J. BRANHAM, ARY FARAJI, GREGORY S. WHITE AND CHRISTOPHER S. BIBBS<sup>1</sup>

### scientific reports

Infrared light sensors permit rapid recording of wingbeat frequency and bioacoustic species identification of mosquitoes

Dongmin Kim<sup>1</sup>, Terry J. DeBriere<sup>2</sup>, Satish Cherukumalli<sup>2</sup>, Gregory S. White<sup>3</sup> & Nathan D. Burkett-Cadena<sup>163</sup>

Journal of Insect Science, (2020) 20(1): \$\frac{1}{3}.1-7 \text{doi: 10.1093/jrsess/fier131}



Mueller Park

Trap Comparison for Surveillance of the Western Tree Hole Mosquito (Diptera: Culicidae)

Luis Fernando Chaves, <sup>1,o</sup> Nadja Reissen, <sup>2</sup> Gregory S. White, <sup>2</sup> Scott Gordon, <sup>3</sup> and Ary Faraji<sup>2,4,o</sup>

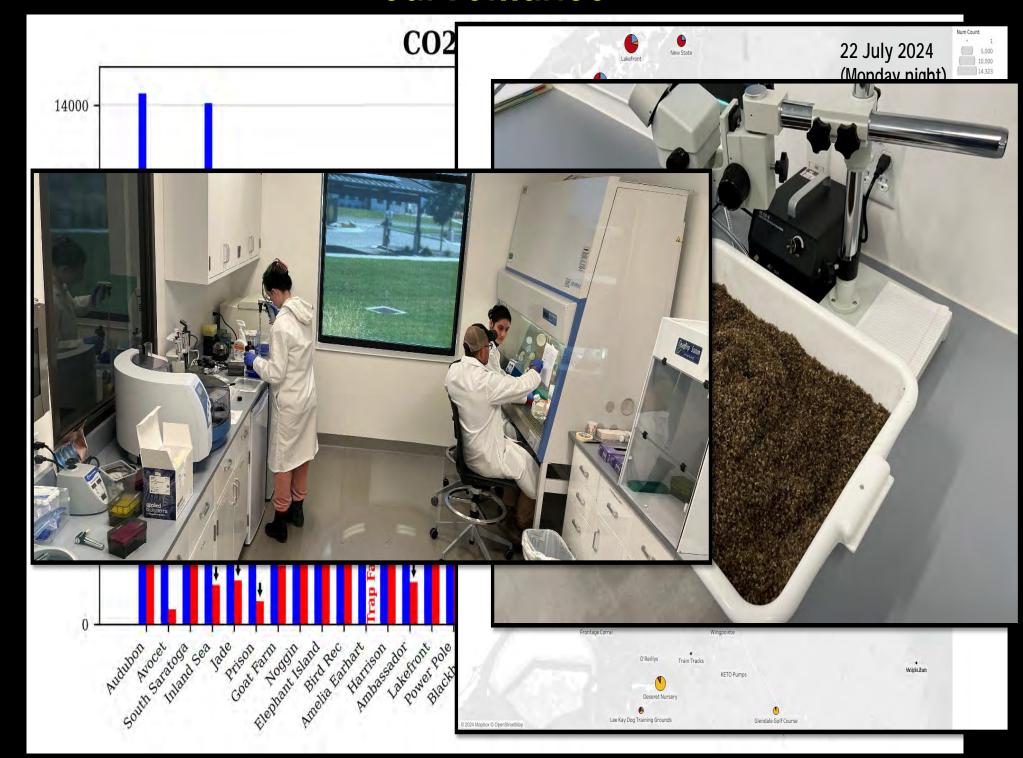
Instituto Costamiconse de Investigación y Enseñanza en Nutrición y Salud (INCIENSA), Ties Rics, Cartago, Apartado 4:2250, Costa Rica, "Salt Lake City Mosquito Abatement District, 2215 North 2200 West, Salt Lake City, UT 04116, "Biogents AG, Weissenburgstz 22 Sottés Regensburg, Germany, and "Corresponding author e-mail" any@sicinad.oru

Subject Editor: Phyllis Wointnub

Becerved 5 November 2019; Editorial decision 20 December 2019



# Surveillance



### Control - Urban

Tree Hole Program

Catch Basin Program

Biological Control Program









### **Control - Rural**



Orientation

**Student Orientation & Transition Services** 

Statewide First Semester Guides Exploratory Eastern

Blanding

Online Out of State Inte

### **Aviation Management - Unmanned Aerial Systems**

By College of Agriculture and Applied Sciences Academic Advisors - Fall 2023

To learn more about this degree, including career options, admissions requirements, and the Degree Information website below. This First Year Semester Guide has suggested Degree Information

Degree Journal of Economic Enfomology, 114/51, 2021, 1896-1909

e ones required for your major. Do everything you waitlist. If the class doesn't have a waitlist opt duate. You should take one or more of these courses each semester until the management of the semester until the semester until the management of the semester until the management of the semester until the semester un eved to graduate. You should take one or more of these courses each semester until the

**Degree Recommended Courses** 

Ary Faraji 19.0 Eric Haas Stapleton, Brad Sorensen, Marty Scholl, Gary Gov Fritz, Schon, Nicholas Lefkow, Colin Lewis, Bradley Fritz, Joel Buettner, and Greg Williams, and Greg William

Clint Hoffman, and Greg Williams, and Greg Williams, and Greg Williams

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ENTOMOLOGICAL
ENTOMOLOGICAL
SOCIETY OF AMERICA
SHARING INSECT SCIENCE GLOBALLY
SHARING INSECT SCIENCE

OXFORD

CREDITS COURSE

**COURSE OPTIONS** 

### Grants



CSU, partners land \$8.75M for center on vector-borne diseases like West Nile virus



#### **Investigators**

#### **Directors**



# Brian Foy, Ph.D. RaHP VEC Ga-DirectoriCa-Principal Investigator Professor, Colorado State University — About Dr. Foy Brian brings extensive experience in field entomology and testing novel strategies for vector control of domestic arboviral vectors. As the program co-director, Dr. Foy is involved in all aspects of RaHP VEC. Foy Lab Website



# Arj Faraji, Ph.D., BCE Executive Director, Solt Loke City Mosquito Abotement District (SLCMAD) — About Dr. Faraji Ary has over 20 years of experience in vector management, including surveillance, various forms of adult and larval control, and conducting vector training workshops. He applies this programmatic knowledge and perspective across RaHP VEC activities. + Current Activities



#### Greg White, Ph.D.

+ Current Activities

Assistant Director, Salt Lake City Mosquito Abatement District (SLCMAD)

- About Dr. White

Greg has worked in the field of vector control for over 15 years. He has experience in mosquita and arbovirus surveillance, insecticide resistance management, avaluating insecticide applications, fifth fly and billing midge management, and performing vector control in multiple states.

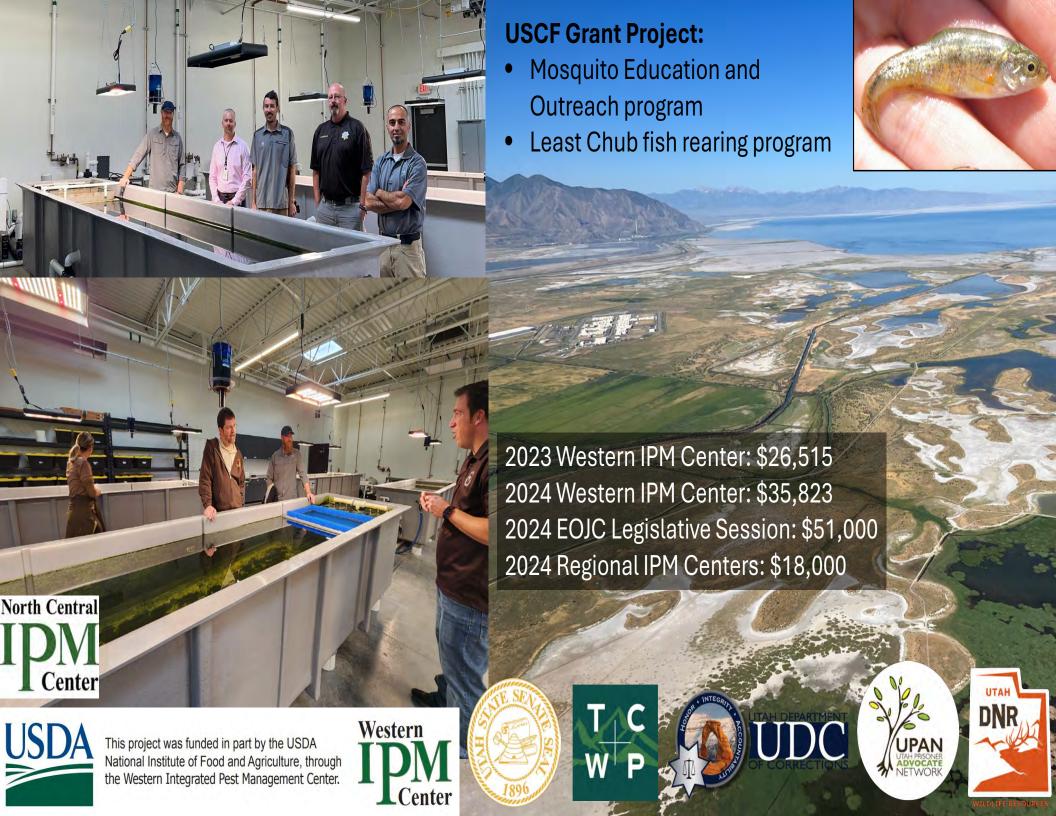
+ Current Activities

**CDC Funded** 

2023-2028

\$1,013,794







### Research Projects













Journal of Medical Entomology, 50(2), 2021, 767-772

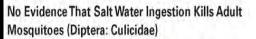
doi: 10.1003/pmc/(jua/214

Advance Access Publication Date: 20 October 2020

Vector Control, Pest Management, Resistance, Repellents

Research

OXFORD



Donald A. Yee, <sup>17</sup> Catherine Dean, <sup>1</sup> Cameron Webb, <sup>2,5</sup> Jennifer A. Henke, <sup>4</sup> Gabriela Perezchica-Harvey, <sup>4</sup> Gregory S. White, <sup>5</sup> Ary Faraji, <sup>5</sup> Joshua D. Macaluso, <sup>6</sup> and Rebecca Christofferson<sup>6</sup> Scientific reports

Personal Heterodissemination: precision insecticide delivery to mosquito larval habitats by cohabiting vertebrates

| Sik Unluh | 5, Ary Faraji | 7, Vi Wang', | Ilia Rochlin' & Randy Gaugler'

Home > Parasites & Vectors > Article

Diuresis and α-glucosidase inhibition by erythritol in Aedes aegypti (Diptera:
Culicidae) and viability for efficacy against mosquitoes

Research | Open access | Published: 20 February 2024

Irvane E. Nelson, Kobi A. Baker, Ary Faraji, Gregory S. White & Christopher S. Bibbs 🖂



Aims and scope >

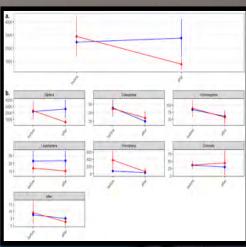
## Research Projects

Non-target impact studies



Modeling/drift/deposition





Where do the droplets go? Evaluating risk of aerial ultra-low volume insecticide treatments for adult mosquito management using dispersion modeling

Daniel L. Mendozal\*, Christopher S. Bibbs², M. Andrew Dewsnup², Ilia Rochlin², Gregory S. White², Jane A. S. Bonds³, Robert K. D. Peterson, Ary Faraji²





Revier

Are Adult Mosquito Control Products (Adulticides) Harmful? A Review of the Potential Human Health Impacts from Exposure to Naled and Dichlorvos (DDVP)

Daniel L. Mendoza 1,40, Robert K. D. Peterson 20, Jane A. S. Bonds 3, Gregory S. White 4 and Ary Faraji 4



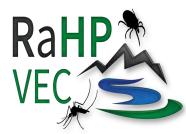
Disease Ecology

ECOSPHERI

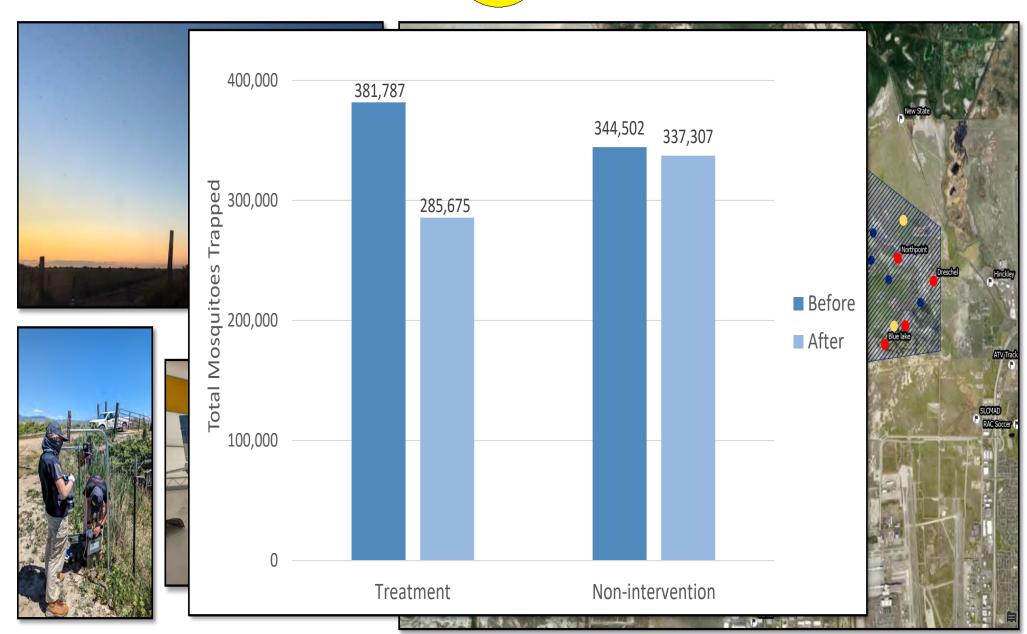
Effects of aerial adulticiding for mosquito management on nontarget insects: A Bayesian and community ecology approach

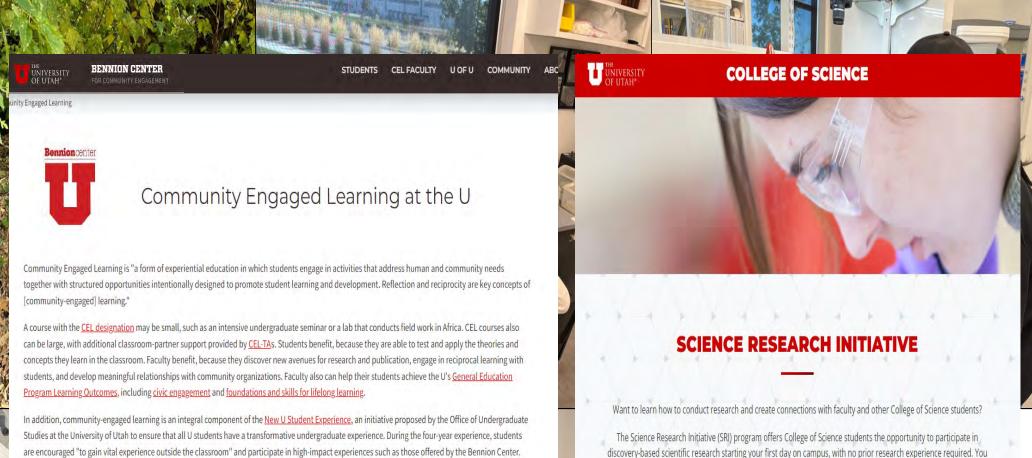
# Evaluation of Aerial Adulticide Applications











are encouraged "to gain vital experience outside the classroom" and participate in high-impact experiences such as those offered by the Bennion Center.

Faculty may apply for CEL designation for courses that combine instruction with community engagement in ways that encourage civic responsibility and critical reflection, foster community-based scholarship, emphasize civic engagement, and promote collaboration with community partners on projects that meet the course's academic goals and advance the community partner's mission.

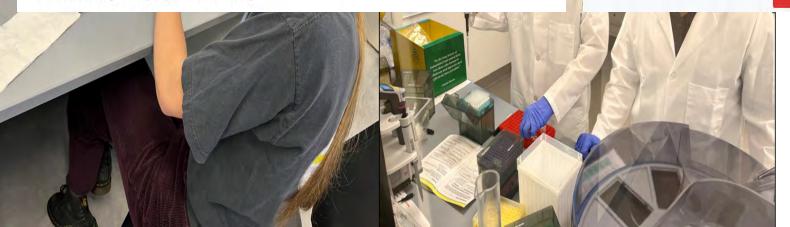
Learn more about how U students benefit from community-engaged learning



will gain research skills that will help you in science classes, learn with College of Science peers, and connect with faculty

across the University. The SRI will jumpstart your path of academic success, and give you needed skills to prepare for an

internship or a career - whether that's in a research lab, an office, or one of the many other opportunities open to our graduates. Find out more below, or email us for more information.





# Tax Increase Purpose

**Consumer Price Index and Inflation** 

Shorter tax increase cycles & smaller %

**Enhancement of aerial operations** 

Phase II construction



# Tax Revenue, New Growth, CPI

Year	Tax Revenue	New Growth	% New Growth	% Wasatch Front CPI	Difference
2021	\$3,736,002	\$51,874	1.41	6.0	-4.59
2022	\$6,621,359	\$83,355	2.23	9.6	-7.37
2023	\$6,819,257	\$197,898	2.99	3.8	-0.81
2024	\$7,029,062	\$209,805	3.08	3.8	-0.72
		Total	9.71	23.2	-13.49

## **Aerial Operations Enhancement**

Fixed wing operation in Ogden

Antiquated aircraft

Multiple transfer points



Helicopter increases accuracy, efficiency, and efficacy



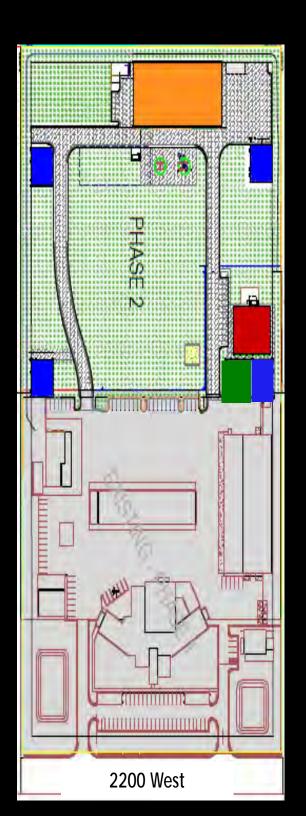
### **Phase II Construction**

Additional Laboratory/Insectary

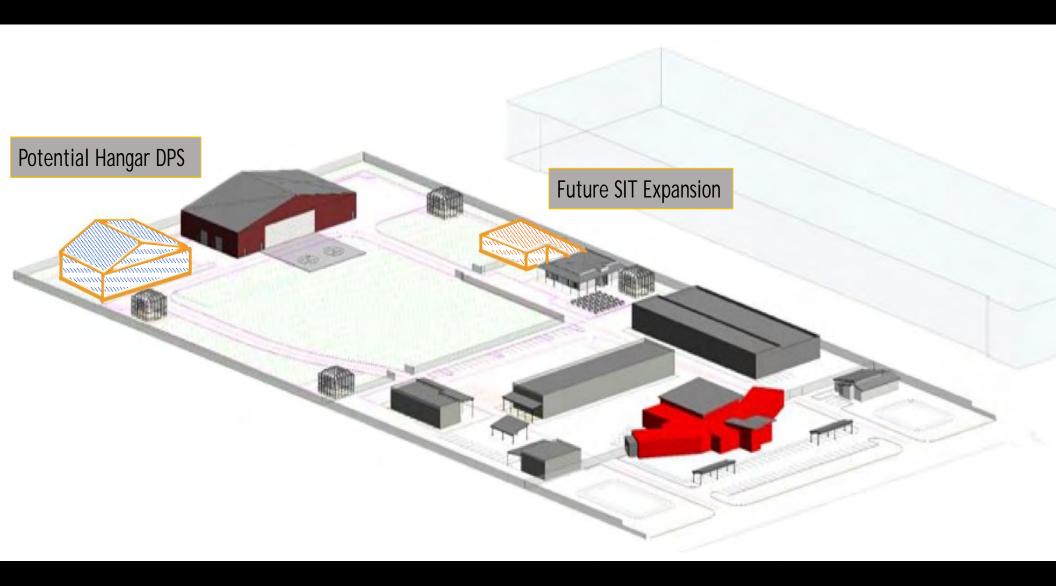
4 Adult Bioassay Cages (ABC's)

25 Larval Bioassay Vaults (LBV's)

Helicopter Hangar



# Phase II Construction



### **Financial Advisor Forecasting**



Salt Lake Mosquito Abatement District

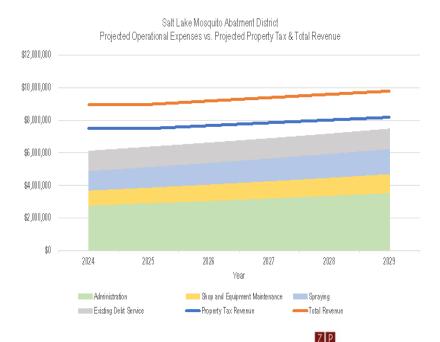
Zions Public Finance, Inc.

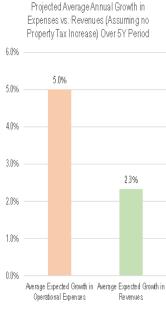


### **Operational Considerations**

Funds are well managed, yet Salt Lake Mosquito Abatement District (SLMAD) would likely require a future property tax increase regardless of its future capital program as new growth tapers.

ZIONS PUBLIC FINANCE, INC.





### Scenario Analysis

Tools to achieve the vision.

Strong Fund Balance

Beneficial Interest Income Environment

Specific Debt Tools

Salt Lake Mosquito Abatement District Scenario Analysis	Scenario 1 - Hold Funds @ PTIF, Bond for Needed A mount, Hold Interest Income @ PTIF	Scenario 2 - Expend All Funds @ PTIF, Bond for Remaining Amount	Scenario 3 - Hold Funds @PTIF, Bond for Needed Amount, Deploy Interest Income to SLMAD Fund	Scenario 4 - Hybrid of 2 & 3	Scenario 5 - Hold Funds @PTIF, Bond for Needed Amount, Deploy Interest Income to SLMAD Fund, Tax Increase fixed at 19.5%
Amountfrom PTF Expended (\$	\$0	\$9,000,000	\$0	\$4,500,000	\$0
New Bond Amount (\$)	\$20,000,000	\$12,000,000	\$20,000,000	\$16,000,000	\$20,000,000
Projected Tax Rate Without Increase	0.0001590	0.0001590	0.0001590	0.0001590	0.0001590
Projected Tax Rate With Increase	0.0001923	0.0001789	0.0001875	0.0001829	0.000 1900
Change in Levy	0.0000333	0.0000199	0.0000285	0.0000239	0.0000310
Property Tax Rate Increase (%)	20.95%	12.50%	17.90%	15.00%	19.50%
Calculated Annual Tax Impact on \$400,000 Primary Residence (\$)	\$10.29	\$7.13	\$9.15	\$8.06	\$9.75
Calculated Annual Tax Impact on \$400,000 Primary Residence (%)	29.4%	20.4%	26.2%	23.1%	26.2%
Calculated Monthly Tax Impact on \$400,000 Primary Residence (\$)	\$0.86	\$0.59	\$0.76	\$0.67	\$0.81
New Principal and Interest Expense	\$1,534,485	\$920,691	\$1,534,485	\$1,227,588	\$1,534,485
New Revenue from Property Tax Increase	\$2,058,489	\$1,425,789	\$1,830,118	\$1,612,978	\$1,949,919
Net New Revenue	\$524,004	\$505,098	\$295,633	\$385,390	\$415,434
Interest Income Scenarios					
Avg. Ann. Interest Income Earnings on \$9 M@ PTIF Assuming Rates Unchanged, No Compounding	\$495,000	\$0	\$495,000	\$247,500	\$495,000
Avg. Ann. Interest Income Earnings on \$9M @PTIF Assuming ZPF VSLMAD Scenario, No Compounding	\$368,571	\$0	\$368,571	\$187,500	\$332,100
Awg. Ann. Interest Income Earnings on \$9 M@ PTIF Assuming Fed Dots, Income Reinvested, No Compounding	\$242,143	\$0	\$242,143	\$121,071	\$242,143
Total Interest Income Earnings @ PT IF Assuming Rates Unchanged, No Compounding	\$10,395,000	\$0	\$10,395,000	\$5,197,500	\$10,395,000
Total Interest Income Earnings @ PT IF Assuming ZPFI/SLMAD Scenario, No Compounding	\$7,740,000	\$0	\$7,740,000	\$3,937,500	\$7,740,000
Total Interest Income Earnings @ PT IF Assuming Fed Dots, No Compounding	\$5,085,000	\$0	\$5,085,000	\$2,542,500	\$5,085,000

Legend Recommended Scenario



# **Projected Annual Property Taxes**

	Current 2024 Rate (0.000147)	~Proposed 2025 Rate (0.000176)	Price Increase
\$623,900 House (\$343,145 taxable value)	\$50.44 year (\$4.20 month)	\$60.39 year (\$5.03 month)	\$9.95 (\$0.83 month)
\$1,000,000 Business	\$147.00 year	\$176.00 year	\$29.00 (\$2.42 month)