

Anastasia Mosquito Control District

of St. Johns County

www.amcdsjc.org



District Board Meeting

March 9, 2023

Thursday at

5:00 P.M

ANASTASIA MOSQUITO CONTROL DISTRICT ST. JOHNS COUNTY



PROPOSED AGENDA
Thursday, March 9, 2023
5:00 P.M.

Invocation and Pledge: *Commissioner*

Consent Items: APPROVAL OF:

1. Treasurer's Report
2. Vouchers (*Cancelled Checks*)
3. Chemical Inventory
4. Minutes: Regular Board Meeting, February 9, 2023 at 5:00 P.M.
5. Commissioner Mrs. Gleason's visit to Lee CMCD & Collier CMCD Aerial Workshop (April 17th – 20th)
6. Updated Job Description of Assistant Director

Unfinished Business:

1. SIT Building Project Update ~ *Mr. Glenn Harrell, President of the Harrell Construction Company (10 min)*
2. Financial Monthly Report ~ *Mr. Scott Hanna, C.F.O (10 min)*
3. Reviewing Related Policy from Commissioners Handbook ~ *Mrs. Martha Gleason, Commissioner*
4. Budget Amendments ~ *Mr. Scott Hanna, C.F.O (5 min)*

New Business:

1. AMCA Annual Report Meeting Reports, Commissioner & Legislation Sessions, and Other Reports ~ *Mrs. Trish Becker, Commissioner & Dr. Rui-De Xue, Director (10 min)*
2. Update about Special District Accountability Audit, Preparations & Progress ~ *Dr. Rui-De Xue (10 min)*
3. Update about Annual Program Report & 18th Arbovirus Workshop ~ *Dr. Rui-De Xue (10 min)*

Reports

1. Director
2. Attorney

Commissioner Comments:

Attachments: FOR INFORMATION PURPOSES ONLY

1. None

Consents

ANASTASIA MOSQUITO CONTROL DISTRICT OF ST. JOHNS COUNTY

TREASURER'S REPORT

February 2023 Reconcile

Report for March 2023 Meeting

Cash Balances Ending:

2/28/23

Local Fund	\$	5,581,570.00	
S.B.A. Fund	\$	7,136,731.57	*Pro Forma Est.
Bank of America	\$	393,381.87	(E-Pay Account)
Total Funds as of 02/28/23	\$	13,111,683.44	

Source of Income Local/ SBA Fund:

2/28/23

Taxes	\$	917,937.43	(Gross before Commission)
SBA Fund- Return on Investment	\$	27,961.16	*Pro Forma Est.
Local Fund, Interest	\$	1,945.72	
Grant Money	\$	44,068.32	DOD Grant
Misc.	\$	4,505.28	
Total Deposits by 02/28/23	\$	996,417.91	

CHEMICAL & INSECTICIDE INVENTORY

Report for March 2023 Meeting

Summary

VOUCHERS PRESENTED

Report for March 2023 Meeting

Local Fund Several

9:40 AM

03/01/23

Anastasia Mosquito Control District
Reconciliation Summary
110 · Wells Fargo Bank - Local, Period Ending 02/28/2023

	Feb 28, 23
Beginning Balance	5,091,235.95
Cleared Transactions	
Checks and Payments - 45 items	-398,533.50
Deposits and Credits - 16 items	911,376.88
Total Cleared Transactions	512,843.38
Cleared Balance	<u>5,604,079.33</u>
Uncleared Transactions	
Checks and Payments - 5 items	-22,509.33
Total Uncleared Transactions	-22,509.33
Register Balance as of 02/28/2023	<u>5,581,570.00</u>
New Transactions	
Checks and Payments - 5 items	-94,787.59
Total New Transactions	-94,787.59
Ending Balance	<u><u>5,486,782.41</u></u>

Anastasia Mosquito Control District

Reconciliation Detail

110 - Wells Fargo Bank - Local, Period Ending 02/28/2023

Type	Date	Num	Name	Clr	Amount	Balance
Beginning Balance						5,091,235.95
Cleared Transactions						
Checks and Payments - 45 items						
Bill Pmt -Check	12/08/2022	8280	Wayne Flowers	X	-250.00	-250.00
Bill Pmt -Check	01/18/2023	8300	Duval Fixtures, Inc.	X	-2,528.36	-2,778.36
Bill Pmt -Check	01/23/2023	8304	Laboratory Builders, ...	X	-11,930.00	-14,708.36
Bill Pmt -Check	01/23/2023	8303	Burchfield Electric, I...	X	-3,795.00	-18,503.36
Bill Pmt -Check	01/24/2023	8306	Faye Goolrick	X	-4,050.00	-22,553.36
Bill Pmt -Check	01/26/2023	8307	Percival Scientific, Inc.	X	-26,019.24	-48,572.60
Bill Pmt -Check	01/31/2023	Direct ...	Decyo McDuffie	X	-137.26	-48,709.86
General Journal	02/01/2023	9-#419	Panagiota Becker	X	-1,080.40	-49,790.26
General Journal	02/01/2023	Direct ...	Catherine Brandhorst	X	-100.00	-49,890.26
General Journal	02/01/2023	Direct ...	Panagiota Becker	X	-100.00	-49,990.26
General Journal	02/01/2023	Direct ...	Gayle Gardner	X	-100.00	-50,090.26
General Journal	02/01/2023	Direct ...	Martha Gleason	X	-100.00	-50,190.26
General Journal	02/01/2023	Direct ...	Gina LeBlanc	X	-100.00	-50,290.26
General Journal	02/01/2023	Direct ...	Ruide Xue	X	-50.00	-50,340.26
General Journal	02/02/2023	9-#420	Payroll	X	-54,525.37	-104,865.63
General Journal	02/02/2023	9-#420	Payroll	X	-18,112.08	-122,977.71
General Journal	02/02/2023	9-#420	Payroll	X	-1,337.00	-124,314.71
General Journal	02/02/2023	9-#420	Payroll	X	-875.00	-125,189.71
Bill Pmt -Check	02/02/2023	8308	Sunbelt Rentals	X	-806.92	-125,996.63
Bill Pmt -Check	02/06/2023	8309	Harrell Construction ...	X	-23,717.79	-149,714.42
Bill Pmt -Check	02/07/2023	Direct ...	Game Time	X	-104,736.49	-254,450.91
Bill Pmt -Check	02/07/2023	8312	Oliver Enterprises	X	-7,500.00	-261,950.91
Bill Pmt -Check	02/07/2023	8313	Ameris Bank	X	-2,433.70	-264,384.61
General Journal	02/07/2023	9-#422	Steven Peper	X	-501.00	-264,885.61
General Journal	02/07/2023	9-#422	Whitney Qualls	X	-116.00	-265,001.61
General Journal	02/07/2023	9-#422	Kai Blore	X	-64.00	-265,065.61
General Journal	02/08/2023	9-#421	Ralph Bruner	X	-296.05	-265,361.66
Bill Pmt -Check	02/09/2023	8315	Festhaus	X	-1,650.00	-267,011.66
Bill Pmt -Check	02/09/2023	8314	Happy Heart Farms	X	-150.00	-267,161.66
Bill Pmt -Check	02/10/2023	Phone...	Bank of America	X	-9,895.02	-277,056.68
Bill Pmt -Check	02/10/2023	Direct ...	Decyo McDuffie	X	-109.80	-277,166.48
Bill Pmt -Check	02/11/2023	ACH ...	Paypal	X	-1.99	-277,168.47
Bill Pmt -Check	02/14/2023	8318	Miles Maxcer	X	-10,930.08	-288,098.55
Bill Pmt -Check	02/14/2023	WIRE	ID.Vet	X	-5,171.00	-293,269.55
Bill Pmt -Check	02/14/2023	WIRE	H.E.R.O.S.	X	-2,400.00	-295,669.55
General Journal	02/16/2023	9-#480	Payroll	X	-53,427.13	-349,096.68
General Journal	02/16/2023	9-#480	Payroll	X	-18,195.72	-367,292.40
General Journal	02/16/2023	9-#480	Payroll	X	-1,887.00	-369,179.40
General Journal	02/16/2023	9-#480	Payroll	X	-875.00	-370,054.40
General Journal	02/17/2023	9-#420	Morgan Duett	X	-140.00	-370,194.40
General Journal	02/24/2023	9-#419	Panagiota Becker	X	-549.81	-370,744.21
General Journal	02/24/2023	9-#419	Steven Peper	X	-25.00	-370,769.21
General Journal	02/27/2023	9-#417	Florida Retirement S...	X	-25,443.93	-396,213.14
Bill Pmt -Check	02/27/2023	Phone...	Bank of America	X	-1,175.91	-397,389.05
Bill Pmt -Check	02/28/2023	Direct ...	Decyo McDuffie	X	-1,144.45	-398,533.50
Total Checks and Payments					-398,533.50	-398,533.50
Deposits and Credits - 16 items						
General Journal	01/27/2023	9-#426	MISC.	X	451.76	451.76
General Journal	02/01/2023	9-#420	MISC.	X	2,584.92	3,036.68
General Journal	02/01/2023	9-#482	Dennis Hollingsworth	X	9,803.31	12,839.99
Bill Pmt -Check	02/06/2023	8311	VyStar Credit Union	X		12,839.99
Deposit	02/08/2023		wells Fargo	X	1,945.72	14,785.71
Bill Pmt -Check	02/09/2023	8317	Miles Maxcer	X		14,785.71
Bill Pmt -Check	02/09/2023	8316	Miles Maxcer	X		14,785.71
General Journal	02/10/2023	9-#425R	SmartCage-UF	X	4,753.00	19,538.71
General Journal	02/21/2023	9-#420	Dennis Hollingsworth	X	889,961.16	909,499.87
General Journal	02/24/2023	9-#419	Workshop reimb	X	47.76	909,547.63
General Journal	02/24/2023	9-#419	Workshop reimb	X	95.52	909,643.15
General Journal	02/24/2023	9-#419	Workshop reimb	X	288.54	909,931.69
General Journal	02/24/2023	9-#419	Workshop reimb	X	288.54	910,220.23
General Journal	02/24/2023	9-#419	Tomomi Hirokawa	X	385.55	910,605.78

Type	Date	Num	Name	Clr	Amount	Balance
General Journal	02/24/2023	9-#419	Decyo McDuffie	X	385.55	910,991.33
General Journal	02/26/2023	9-#419	Tomomi Hirokawa	X	385.55	911,376.88
Total Deposits and Credits					911,376.88	911,376.88
Total Cleared Transactions					512,843.38	512,843.38
Cleared Balance					512,843.38	5,604,079.33
Uncleared Transactions						
Checks and Payments - 5 items						
Bill Pmt -Check	02/13/2023	8319	Color Reflections		-7,423.50	-7,423.50
Bill Pmt -Check	02/13/2023	8320	CustomAquarium.com		-2,790.00	-10,213.50
Bill Pmt -Check	02/16/2023	8321	Augustine Alarm, Fir...		-550.00	-10,763.50
Bill Pmt -Check	02/23/2023	8322	Creative Graphic De...		-5,762.50	-16,526.00
Bill Pmt -Check	02/24/2023	8323	NLINDAHL Design L...		-5,983.33	-22,509.33
Total Checks and Payments					-22,509.33	-22,509.33
Total Uncleared Transactions					-22,509.33	-22,509.33
Register Balance as of 02/28/2023					490,334.05	5,581,570.00
New Transactions						
Checks and Payments - 5 items						
Bill Pmt -Check	03/01/2023	8324	Humidifirst		-18,500.00	-18,500.00
General Journal	03/02/2023	9-#477	Payroll		-54,936.79	-73,436.79
General Journal	03/02/2023	9-#477	Payroll		-18,463.80	-91,900.59
General Journal	03/02/2023	9-#477	Payroll		-1,887.00	-93,787.59
General Journal	03/02/2023	9-#477	Payroll		-1,000.00	-94,787.59
Total Checks and Payments					-94,787.59	-94,787.59
Total New Transactions					-94,787.59	-94,787.59
Ending Balance					395,546.46	5,486,782.41

2:29 PM

02/27/23

Anastasia Mosquito Control District
Reconciliation Summary
115 · SBA, Period Ending 02/28/2023

	<u>Feb 28, 23</u>
Beginning Balance	7,108,770.41
Cleared Transactions	
Deposits and Credits - 1 item	<u>27,961.16</u>
Total Cleared Transactions	<u>27,961.16</u>
Cleared Balance	<u>7,136,731.57</u>
Register Balance as of 02/28/2023	7,136,731.57
Ending Balance	7,136,731.57

2:29 PM

02/27/23

Anastasia Mosquito Control District
Reconciliation Detail
115 · SBA, Period Ending 02/28/2023

Type	Date	Num	Name	Clr	Amount	Balance
Beginning Balance						7,108,770.41
Cleared Transactions						
Deposits and Credits - 1 item						
Deposit	02/28/2023			X	27,961.16	27,961.16
Total Deposits and Credits					27,961.16	27,961.16
Total Cleared Transactions					27,961.16	27,961.16
Cleared Balance					27,961.16	7,136,731.57
Register Balance as of 02/28/2023					27,961.16	7,136,731.57
Ending Balance					27,961.16	7,136,731.57



State Board of Administration
Local Government Surplus Funds Trust Fund
Participant Statement

AGENCY ACCOUNT 101071

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02/01/2023 - 02/28/2023

ANASTASIA MOSQUITO CONTROL DIS
 OF ST JOHNS COUNTY
 120 EOC DRIVE
 ST. AUGUSTINE, FL 32092

Participant Return: 4.72%

Date	Transaction Type	Description	Amount	Balance
02/01/23	BEGINNING BALANCE		\$	7,108,770.41
02/28/23	EARNED INCOME	INTEREST	* \$ 27,961.16	\$ 7,136,731.57

* Pro Forma Estimate Based on the 30-Day SEC Yield 4.72

** Stmt. was not available as of Board Book Delivery Date

9:29 AM

03/01/23

Anastasia Mosquito Control District
Reconciliation Summary
112 · Bank of America, Period Ending 02/28/2023

	Feb 28, 23
Beginning Balance	459,457.65
Cleared Transactions	
Checks and Payments - 42 items	-103,230.87
Deposits and Credits - 2 items	37,155.09
Total Cleared Transactions	-66,075.78
Cleared Balance	<u>393,381.87</u>
Uncleared Transactions	
Checks and Payments - 1 item	-733.44
Total Uncleared Transactions	-733.44
Register Balance as of 02/28/2023	<u>392,648.43</u>
New Transactions	
Checks and Payments - 1 item	-1,595.00
Total New Transactions	-1,595.00
Ending Balance	<u><u>391,053.43</u></u>

Anastasia Mosquito Control District Reconciliation Detail

112 · Bank of America, Period Ending 02/28/2023

Type	Date	Num	Name	Clr	Amount	Balance
Beginning Balance						459,457.65
Cleared Transactions						
Checks and Payments - 42 items						
Bill Pmt -Check	02/02/2023	E-Pay	Nationwide Retirem...	X	-1,195.00	-1,195.00
Bill Pmt -Check	02/03/2023	E-Pay	Clarke Mosquito Pro...	X	-21,069.40	-22,264.40
Bill Pmt -Check	02/03/2023	E-Pay	The Home Depot	X	-7,576.72	-29,841.12
Bill Pmt -Check	02/03/2023	E-Pay	FPL - EDU CENTER	X	-818.45	-30,659.57
Bill Pmt -Check	02/03/2023	E-Pay	COPYFAX	X	-221.99	-30,881.56
Bill Pmt -Check	02/03/2023	E-Pay	WM Waste Manage...	X	-194.27	-31,075.83
Bill Pmt -Check	02/03/2023	E-Pay	Augustine Alarm, Fir...	X	-174.96	-31,250.79
Bill Pmt -Check	02/03/2023	E-Pay	Hagan Ace Mgmt. C...	X	-33.94	-31,284.73
Bill Pmt -Check	02/03/2023	E-Pay	Legal Shield	X	-31.90	-31,316.63
Bill Pmt -Check	02/10/2023	E-Pay	FPL - EOC DR-Main...	X	-2,088.40	-33,405.03
Bill Pmt -Check	02/10/2023	E-Pay	A/C Designs	X	-1,898.84	-35,303.87
Bill Pmt -Check	02/10/2023	E-Pay	Lewis Longman & W...	X	-1,500.00	-36,803.87
Bill Pmt -Check	02/10/2023	E-Pay	FPL - EOC DR - Re...	X	-1,382.98	-38,186.85
Bill Pmt -Check	02/10/2023	E-Pay	Bragg Avionics, Inc.	X	-1,350.00	-39,536.85
Bill Pmt -Check	02/10/2023	E-Pay	Florida Janitor & Pa...	X	-665.83	-40,202.68
Bill Pmt -Check	02/10/2023	E-Pay	ULINE	X	-172.48	-40,375.16
Bill Pmt -Check	02/10/2023	E-Pay	Tractor Supply Credi...	X	-108.94	-40,484.10
Bill Pmt -Check	02/10/2023	E-Pay	AFLAC	X	-52.08	-40,536.18
Bill Pmt -Check	02/10/2023	E-Pay	Craft's Trophies & A...	X	-12.00	-40,548.18
Bill Pmt -Check	02/15/2023	E-Pay	Preferred Governme...	X	-6,545.00	-47,093.18
Bill Pmt -Check	02/15/2023	E-Pay	Fisher Scientific	X	-4,544.46	-51,637.64
Bill Pmt -Check	02/15/2023	E-Pay	COMCAST TV-Inter...	X	-613.27	-52,250.91
Bill Pmt -Check	02/15/2023	E-Pay	Comcast Business -...	X	-505.44	-52,756.35
Bill Pmt -Check	02/15/2023	E-Pay	CINTAS- 120 EOC- ...	X	-439.15	-53,195.50
Check	02/15/2023		Bank of America	X	-384.93	-53,580.43
Bill Pmt -Check	02/15/2023	E-Pay	Augustine Alarm, Fir...	X	-370.00	-53,950.43
Bill Pmt -Check	02/15/2023	E-Pay	UHS Premium Billing	X	-208.82	-54,159.25
Bill Pmt -Check	02/15/2023	E-Pay	Florida Janitor & Pa...	X	-200.84	-54,360.09
Bill Pmt -Check	02/15/2023	E-Pay	St. Johns County So...	X	-35.00	-54,395.09
Bill Pmt -Check	02/15/2023	E-Pay	Feedin' Time	X	-21.99	-54,417.08
Bill Pmt -Check	02/16/2023	E-Pay	Nationwide Retirem...	X	-1,495.00	-55,912.08
Bill Pmt -Check	02/17/2023	E-Pay	Kristopher Arheart	X	-4,061.25	-59,973.33
Bill Pmt -Check	02/17/2023	E-Pay	Bragg Avionics, Inc.	X	-400.00	-60,373.33
Bill Pmt -Check	02/17/2023	E-Pay	Florida Janitor & Pa...	X	-39.86	-60,413.19
Bill Pmt -Check	02/21/2023	Phone...	Blue Cross Blue Shi...	X	-38,690.24	-99,103.43
Bill Pmt -Check	02/22/2023	E-Pay	United Concordia	X	-2,012.31	-101,115.74
Bill Pmt -Check	02/22/2023	E-Pay	Verizon Wireless Ce...	X	-1,095.39	-102,211.13
Bill Pmt -Check	02/22/2023	E-Pay	Ann Simpson	X	-600.00	-102,811.13
Bill Pmt -Check	02/22/2023	E-Pay	Staples Credit Plan	X	-249.95	-103,061.08
Bill Pmt -Check	02/22/2023	E-Pay	TPH The Parts House	X	-110.64	-103,171.72
Bill Pmt -Check	02/22/2023	E-Pay	LOCALiQ	X	-42.16	-103,213.88
Bill Pmt -Check	02/22/2023	E-Pay	Turner Ace Hardwar...	X	-16.99	-103,230.87
Total Checks and Payments					-103,230.87	-103,230.87
Deposits and Credits - 2 items						
General Journal	02/01/2023	9-#418	St. John's County T...	X	661.39	661.39
General Journal	02/01/2023	9-#418	Bank of America	X	36,493.70	37,155.09
Total Deposits and Credits					37,155.09	37,155.09
Total Cleared Transactions					-66,075.78	-66,075.78
Cleared Balance					-66,075.78	393,381.87
Uncleared Transactions						
Checks and Payments - 1 item						
Bill Pmt -Check	02/27/2023	Online...	Guardian		-733.44	-733.44
Total Checks and Payments					-733.44	-733.44
Total Uncleared Transactions					-733.44	-733.44
Register Balance as of 02/28/2023					-66,809.22	392,648.43

Type	Date	Num	Name	Clr	Amount	Balance
New Transactions						
Checks and Payments - 1 item						
Bill Pmt -Check	03/02/2023	E-Pay	Nationwide Retirem...		-1,595.00	-1,595.00
Total Checks and Payments					-1,595.00	-1,595.00
Total New Transactions					-1,595.00	-1,595.00
Ending Balance					-68,404.22	391,053.43



P.O. Box 15284
Wilmington, DE 19850

ANASTASIA MOSQUITO CONTROL DISTRICT OF
ST. JOHNS COUNTY
LOCAL GOVERNMENT
120 EOC DR
ST AUGUSTINE, FL 32092-0927

Customer service information

- Customer service: 1.888.400.9009
- bankofamerica.com
- Bank of America, N.A.
P.O. Box 25118
Tampa, Florida 33622-5118

Your Full Analysis Business Checking

for February 1, 2023 to February 28, 2023

Account number: 8981 0275 2170

ANASTASIA MOSQUITO CONTROL DISTRICT OF ST. JOHNS COUNTY LOCAL GOVERNMENT

Account summary

Beginning balance on February 1, 2023	\$459,457.65
Deposits and other credits	37,369.79
Withdrawals and other debits	-103,060.64
Checks	-0.00
Service fees	-384.93
Ending balance on February 28, 2023	\$393,381.87

of deposits/credits: 5
 # of withdrawals/debits: 45
 # of days in cycle: 28
 Average ledger balance: \$440,833.78

Anastasia Mosquito Control District

VOUCHERS (Electronic Bill Pay & Canceled Checks)

From 02/01/2023 through 02/28/23

Date	Num	Name	Memo	Clr	Amount	Balance
110 · Wells Fargo Bank - Local						5,042,977.85
110-A · QuickBooks Bill Pay						-8,924,378.32
Total 110-A · QuickBooks Bill Pay						-8,924,378.32
110 · Wells Fargo Bank - Local - Other						13,967,356.17
02/01/2023	9-#482	Dennis Hollingsworth	Dist. #1 Inter...	X	9,803.31	13,977,159.48
02/01/2023	9-#420	MISC.		X	2,584.92	13,979,744.40
02/01/2023	Direct...	Panagiota Becker	February 202...	X	-100.00	13,979,644.40
02/01/2023	Direct...	Catherine Brandhorst	February 202...	X	-100.00	13,979,544.40
02/01/2023	Direct...	Gayle Gardner	February 202...	X	-100.00	13,979,444.40
02/01/2023	Direct...	Martha Gleason	February 202...	X	-100.00	13,979,344.40
02/01/2023	Direct...	Gina LeBlanc	February 202...	X	-100.00	13,979,244.40
02/01/2023	9-#419	Panagiota Becker	Out of Pocke...	X	-1,080.40	13,978,164.00
02/01/2023	Direct...	Ruide Xue	Dodd Short C...	X	-50.00	13,978,114.00
02/02/2023	9-#420	Payroll	Taxes Withheld	X	-18,112.08	13,960,001.92
02/02/2023	9-#420	Payroll	Bank Accoun...	X	-1,337.00	13,958,664.92
02/02/2023	9-#420	Payroll	Credit Union	X	-875.00	13,957,789.92
02/02/2023	9-#420	Payroll	Net Pay to B...	X	-54,525.37	13,903,264.55
02/02/2023	8308	Sunbelt Rentals	Invoice #130...	X	-806.92	13,902,457.63
02/06/2023	8309	Harrell Construction...	AMCD Comp...	X	-23,717.79	13,878,739.84
02/06/2023	8311	VyStar Credit Union	VOID: H.S.A ...	X	0.00	13,878,739.84
02/07/2023	Direct...	Game Time	Invoice #PJI-...	X	-104,736.49	13,774,003.35
02/07/2023	8312	Oliver Enterprises	Invoice #202...	X	-7,500.00	13,766,503.35
02/07/2023	8313	Ameris Bank	H.S.A Kyle ...	X	-2,433.70	13,764,069.65
02/07/2023	9-#422	Steven Peper	Dodd Short C...	X	-501.00	13,763,568.65
02/07/2023	9-#422	Kai Blore	Dodd Short C...	X	-64.00	13,763,504.65
02/07/2023	9-#422	Whitney Qualls	Dodd Short C...	X	-116.00	13,763,388.65
02/08/2023	9-#421	Ralph Bruner	Hotel Reimb,...	X	-296.05	13,763,092.60
02/08/2023		wells Fargo	Deposit	X	1,945.72	13,765,038.32
02/09/2023	8314	Happy Heart Farms		X	-150.00	13,764,888.32
02/09/2023	8315	Festhaus	Invoice #AM...	X	-1,650.00	13,763,238.32
02/09/2023	8317	Miles Maxcer	VOID: Harve...	X	0.00	13,763,238.32
02/09/2023	8316	Miles Maxcer	VOID: Harve...	X	0.00	13,763,238.32
02/10/2023	Direct...	Decyo McDuffie		X	-109.80	13,763,128.52
02/10/2023	9-#42...	SmartCage-UF	Grant Money ...	X	4,753.00	13,767,881.52
02/10/2023	Phon...	Bank of America	4356 2200 0...	X	-9,895.02	13,757,986.50
02/11/2023	ACH ...	Paypal		X	-1.99	13,757,984.51
02/13/2023	8319	Color Reflections	Invoice #518...		-7,423.50	13,750,561.01
02/13/2023	8320	CustomAquarium.c...	Invoice #2790		-2,790.00	13,747,771.01
02/14/2023	WIRE	ID.Vet		X	-5,171.00	13,742,600.01
02/14/2023	8318	Miles Maxcer	Harvester An...	X	-10,930.08	13,731,669.93
02/14/2023	WIRE	H.E.R.O.S.		X	-2,400.00	13,729,269.93
02/16/2023	9-#480	Payroll	Taxes Withheld	X	-18,195.72	13,711,074.21
02/16/2023	9-#480	Payroll	Bank Accoun...	X	-1,887.00	13,709,187.21
02/16/2023	9-#480	Payroll	Credit Union	X	-875.00	13,708,312.21
02/16/2023	9-#480	Payroll	Net Pay to B...	X	-53,427.13	13,654,885.08
02/16/2023	8321	Augustine Alarm, Fi...	18081		-550.00	13,654,335.08
02/17/2023	9-#420	Morgan Duett	Reimb. Flight...	X	-140.00	13,654,195.08
02/21/2023	9-#420	Dennis Hollingsworth	Distrib. #7 Y...	X	889,961.16	14,544,156.24
02/23/2023	8322	Creative Graphic D...	Invocie #021...		-5,762.50	14,538,393.74
02/24/2023	8323	NLINDAHL Design ...	Invoice #2302		-5,983.33	14,532,410.41
02/24/2023	9-#419	Tomomi Hirokawa	February 202...	X	385.55	14,532,795.96
02/24/2023	9-#419	Decyo McDuffie	February 202...	X	385.55	14,533,181.51
02/24/2023	9-#419	Workshop reimb	Wellman, An...	X	95.52	14,533,277.03
02/24/2023	9-#419	Workshop reimb	Loomis, Rich...	X	288.54	14,533,565.57
02/24/2023	9-#419	Workshop reimb	Floater, M, V...	X	47.76	14,533,613.33
02/24/2023	9-#419	Workshop reimb	Rehbein, Mic...	X	288.54	14,533,901.87
02/24/2023	9-#419	Panagiota Becker	Out of Pocke...	X	-549.81	14,533,352.06
02/24/2023	9-#419	Steven Peper	Society of Qu...	X	-25.00	14,533,327.06
02/26/2023	9-#419	Tomomi Hirokawa	March 2023 ...	X	385.55	14,533,712.61
02/27/2023	9-#417	Florida Retirement ...	FRS Februar...	X	-25,443.93	14,508,268.68

9:57 AM

03/01/23

Accrual Basis

Anastasia Mosquito Control District
VOUCHERS (Electronic Bill Pay & Canceled Checks)
From 02/01/2023 through 02/28/23

<u>Date</u>	<u>Num</u>	<u>Name</u>	<u>Memo</u>	<u>Clr</u>	<u>Amount</u>	<u>Balance</u>
02/27/2023	Phon...	Bank of America	4356 2200 0...	X	-1,175.91	14,507,092.77
02/28/2023	Direct...	Decyo McDuffie		X	-1,144.45	14,505,948.32
Total 110 · Wells Fargo Bank - Local - Other					538,592.15	14,505,948.32
Total 110 · Wells Fargo Bank - Local					538,592.15	5,581,570.00
TOTAL					538,592.15	5,581,570.00

**ANASTASIA MOSQUITO CONTROL DISTRICT OF ST. JOHNS COUNTY
CHEMICAL & FUEL INVENTORY
MONTH OF JANUARY 2023**

DISTRICT TOTALS

CHEMICAL DESCRIPTION (Indicate lbs., gals. or ea.)		BEGINNING PHYSICAL COUNT	AMOUNT PURCHASED	TRANSFER IN	TRANSFER OUT	AMOUNT AVAILABLE	AMOUNT USED	ENDING "BOOK" BALANCE	PHYSICAL COUNT
WSP	EA.	41,084.00				41,084.00	1592.00	39,492.00	39,492.00
KR	LBS.	1,755.00				1,755.00	0.00	1,755.00	1,755.00
KRG	LBS.	26,440.00				26,440.00	0.00	26,440.00	26,440.00
XT	GALS.	238.01				238.01	9.63	228.38	228.38
R 20-20	GALS.	299.30				299.30	0.00	299.30	299.30
KS (Doughnuts)	EA.	3,338.00				3,338.00	0.00	3,338.00	3,338.00
AR	GALS.	140.34				140.34	1.45	138.89	138.89
	GALS.	381.00				381.00	0.00	381.00	381.00
OMIST TWO	GALS.	76.00	220.00			296.00	0.00	296.00	296.00
	GALS.	510.00				510.00	0.00	510.00	510.00
DT	EA.	8,743.00				8,743.00	0.00	8,743.00	8,743.00
ELLETS	LBS.	44.00				44.00	0.00	44.00	44.00
MBG	LBS.	9,890.00				9,890.00	0.00	9,890.00	9,890.00
P	GALS.	78.59				78.59	0.03	78.56	78.56
C 12AS	GALS.	0.00				0.00	0.00	0.00	0.00
E	GALS.	2,124.00	2,489.00			4,613.00	737.12	3,875.88	3,862.00
	GALS.	3,855.00				3,855.00	282.59	3,572.41	3,616.00
TOTALS		98,996.24	2709.00	0.00	0.00	101,705.24	2,622.83	99,082.41	99,112.13

CHECKED BY:  Weaver
 CHECKED BY: 
 CHECKED BY:  Rude


DATE: 2/2/2023
 DATE: 2/3/23
 DATE: 2/7/23

BASE=	99,112.13
Total	99,112.13

ANASTASIA MOSQUITO CONTROL DISTRICT OF ST. JOHNS COUNTY
 CHEMICAL & FUEL INVENTORY
 VALUE
 MONTH OF JANUARY 2023

CHEMICAL DESCRIPTION (indicate lbs., gals. or ea.)	PHYSICAL COUNT	ACTUAL COST PER LB/GAL/EA	TOTAL INVENTORY VALUE	INVOICE DATE	PURCHASED FROM
ALTOCID WSP	EA. 15,492.00	\$0.8600	\$13,323.12	10/30/20	VESERIS
ALTOCID WSP	EA. 24,000.00	\$0.8800	\$21,120.00	12/16/21	VESERIS
ALTOCID XR	LBS. 875.00	\$3.42	\$2,992.24	10/30/20	VESERIS
ALTOCID XR	LBS. 880.00	\$3.45	\$3,036.00	12/16/21	VESERIS
ALTOCID XRG	LBS. 10,440.00	\$8.9500	\$93,438.00	10/30/20	VESERIS
ALTOCID XRG	LBS. 16,000.00	\$9.0400	\$144,640.00	12/16/21	VESERIS
AQUABAC XT	GALS. 228.38	\$35.0000	\$7,993.30	1/31/22	VESERIS
AQUABAC XT	GALS. 0.00	\$0.0000	\$0.00		VESERIS
AQUALUER 20-20	GALS. 79.30	\$121.5400	\$9,638.12	5/10/21	ALLPRO
AQUALUER 20-20	GALS. 220.00	\$121.5400	\$26,738.80	8/9/22	ALLPRO
B. t. i. DUNKS (Doughnuts)	EA. 3,338.00	\$1.0510	\$3,508.24	9/1/22	TARGET
B. t. i. DUNKS (Doughnuts)	EA. 0.00	\$0.0000	\$0.00		TARGET
COCO BEAR	GALS. 28.39	\$20.4800	\$591.67	7/16/18	CLARKE
COCO BEAR	GALS. 110.00	\$28.4100	\$3,125.10	6/13/22	CLARKE
DUET	GALS. 216.00	\$214.7300	\$46,381.68	8/24/21	CLARKE
DUET	GALS. 165.00	\$223.5300	\$36,882.45	12/6/22	CLARKE
MOSQUITOMIST TWO	GALS. 21.00	\$73.3400	\$1,540.14	11/17/20	CLARKE
MOSQUITOMIST TWO	GALS. 55.00	\$95.7700	\$5,267.35	12/6/22	CLARKE
MOSQUITOMIST TWO	GALS. 220.00	\$95.7700	\$21,069.40	1/4/23	CLARKE
NALED	GALS. 120.00	\$214.7300	\$25,767.60	8/24/21	CLARKE
NALED	GALS. 390.00	\$2.0000	\$780.00	10/19/21	Osceola Co.
NATULAR DT	EA. 8,743.00	\$0.4168	\$3,644.08	9/9/16	CLARKE
STRIKE PELLETS	LBS. 44.00	\$184.1500	\$8,102.60	5/10/10	ADAPCO
SUSTAIN MBG	LBS. 8,890.00	\$7.1000	\$70,219.00	7/12/22	ALLPRO
SUSTAIN MBG	LBS. 0.00	\$0.0000	\$0.00		ALLPRO
TALSTAR P	GALS. 78.58	\$63.6400	\$4,999.56	9/13/22	VESERIS
TALSTAR P	GALS. 0.00	\$0.0000	\$0.00		VESERIS
VECTOBAC 12AS	GALS. 0.00	\$0.0000	\$0.00		ADAPCO
GASOLINE	GALS. 1,373.00	\$3.0479	\$4,184.77	10/31/22	L. V. HIERS
GASOLINE	GALS. 2,489.00	\$3.2699	\$8,138.78	1/19/23	L. V. HIERS
JET A	GALS. 3,616.00	\$3.9200	\$14,174.72	9/28/22	Avfuel
JET A	GALS. 0.00	\$0.0000	\$0.00		Avfuel
TOTAL	99,112.13	\$1,538.30	\$581,296.71		

Subtract Green first

PREPARED BY:  DATE: 2/2/2023

COST FIGURES REVIEWED BY:  DATE: 2/3/23

REVIEWED BY:  DATE: 2/2/23

Invoice



LV Hiers Inc Stone Transport Svc LLC
PO Box 1229
Macclenny, FL 32063
9042592314

Invoice Number: 0444866-IN
Invoice Date: 1/19/2023
Due Date: 1/19/2023
Order Number:
Order Date
Salesperson: AS
Customer Number: ANAMOS

Sold To:
 Anastasia Mosquito Control
 District of St. John's County
 120 EOC Drive
 SAINT AUGUSTINE, FL 32092
 904.471.3107

Ship To:
 Anastasia Mos. Ctrl - EOC Dr.
 District of St. John's County
 120 EOC Drive
 ST. AUGUSTINE, FL 32080

Confirm To: ***** If you havent done so, please send your 2023 Sales Tax Exemption Certificate to invoicing@lvhiers.com (if applicable). *****

Customer P.O.	Ship VIA	BOL #	Terms
	STS	586438	Due Immediately

Item Number	Unit	Ordered	Shipped	Back Ordered	Price	Amount
E10UNL	GAL	2,489.00	2,489.00	0.00	2.8906	7,194.70
E10 Regular Unl. Gas 87 Octane			Whse: 000			
FL STATE EXCISE TAX					0.20200	502.78
FL POLLUTION TAX					0.02070	51.52
FET - L.U.S.T. Fee					0.00100	2.49
FL INSP FEE					0.00120	2.99
Federal Oil Spill Tax					0.00190	4.73
Federal Superfund Fee					0.00350	8.71
ST JOHNS LOCAL OPT TAX					0.14900	370.86
					3.26990	8,138.78

\$ 3,269.9

*** A CONVENIENCE FEE OF 3% MAY BE ADDED TO CREDIT CARD PAYMENTS.**
*** A LATE FEE OF 1% OR \$30.00, THE GREATER OF WHICH, WILL BE CHARGED ON ALL PAST DUE INVOICES.**

The undersigned Buyer grants to the Seller, L. V. Hiers, Inc. a Security Interest under the Uniform Commercial Code for the goods sold under this Invoice. If payment is not made as agreed then the Seller may peacefully repossess same and/or take legal action to recover such goods as well as to collect the amount due under this invoice together with reasonable attorney's fees, costs and out-of-pocket expenses.

Net Invoice: 8,138.78
 Less Discount: 0.00
 Freight: 0.00
 Sales Tax: 0.00
Invoice Total: 8,138.78

Signature: _____ **Print Name:** _____



P.O. Box 1229
 Macclenny, FL 32063-1229
 904-259-2314
 orders@lvhiers.com

44486E

SOLD TO:

Anastasia
 Mosquito
 Control

SHIP TO:

Ag Center Dr
 St Johns

DATE 1/19/23

CASH
 CREDIT

DEP Facility # _____

Bill of Lading # 58643E	Cust. Order No.
----------------------------	-----------------

Please identify your payment of this invoice by Number and Date and send to address shown above. Make check payable to: L.V. Hiers, Inc.

Multiple Tanks at Site Temporary Construction Tank Mobile Tank Agricultural Use

PACKAGES No. Style	PRODUCT DELIVERED	QTY	Tax Included In Price			Posted Price	Net Price	TOTAL AMOUNT
			Fed.	State	Local			
	87 Octane Regular Unleaded Gasoline, 10% Ethanol	2480						
	93 Octane Premium Unleaded Gasoline, 10% Ethanol							
	89 Octane Marine Gasoline, Non-Ethanol							
	Ultra Low Sulfur Diesel #2 - "UNDYED DIESEL FUEL. DOES NOT CONTAIN VISIBLE EVIDENCE OF DYE."							
	Dyed Ultra Low Sulfur Diesel #2 - "DYED DIESEL FUEL. NONTAXABLE USE ONLY. PENALTY FOR TAXABLE USE. DOES NOT MEET FEDERAL REQUIREMENTS FOR USE AS ON HIGHWAY DIESEL FUEL."							

Flammable Liquid UN1203 Gasoline _____
 Combustible Liquid UN1993 _____
 In Case of Leak, Fire or Spill Call 904-259-2314 904-237-0062
 D.O.T. Emergency Response Guide Handbook

The undersigned Buyer grants to the Seller, L. V. Hiers, Inc. a Security Interest under the Uniform Commercial Code for the goods sold under this invoice. If payment is not made as agreed then the Seller may peacefully repossess same and/or take legal action to recover such goods as well as to collect the amount due under this invoice together with reasonable attorney's fees, costs and out-of-pocket expenses.

DELIVERED BY: 	RECEIVED BY:
-------------------	------------------

Unless otherwise noted a 1% fee will be charged on all past due invoices.
 A 3% fee will be added to all credit card payments
 ERRORS IN PRICE, EXTENSION AND ADDITION SUBJECT TO CORRECTION

SUB TOTAL _____
 Sales Tax _____
 TOTAL _____



INVOICE

www.clarke.com
 TOLL-FREE: 800-323-5727
 PHONE: 630-894-2000
 AR Email: accountsreceivable@clarke.com,
 AR Dept. Ext.: 3139

Payment Instructions: Clarke Mosquito Control Products, Inc.
ACH Banking: Bank of America - Account: 8666607212 - Routing: 071000039
Payment Online: Visit our website at <https://www.clarke.com/billpay>
Paper Check: 16277 Collections Center Drive, Chicago, IL 60693

Customer #: A07800

Invoice #: 5103095
 Invoice Date: 01/04/23
 Terms: Net 37 Days
 Due Date: 02/10/23

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Anastasia Mosquito Control District
 Dr. Rui-De Xue
 120 EOC Drive
 St Augustine, FL 32092

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Anastasia Mosquito Control District
 Dr. Rui-De Xue
 120 EOC Drive
 St Augustine, FL 32080-6531

Your Order No. CHERRIEF/EMAIL

Order #	Order Date	Ship Date	Carrier	Consultant	
0000158566	12/05/22	01/04/23	Best Way	Cherrief Jackson	
Item #	Item Description	Qty Ordered	Qty Shipped	Unit price	Extended Price
11133	MOSQ. TWO 55GAL	5	4 drn	5,267.3500	21,069.40

W9's can be found on our website at www.clarke.com

Order total: 21,069.40
 Invoice Total: 21,069.40

Clarke manufactured pesticide products referenced on this invoice meet the quality standards described in Title 40, Chapter I of the Code of Federal Regulations, Part 158, section 175. For a certificate of analysis for each production lot on this invoice, please call (630) 671-3123.

\$95.77

Clarke Mosquito Control Products, Inc. is a Clarke Company

**** Fraud Alert: Our banking details have not changed. Please call 800-323-5727 x3139 if you are asked to change banking information.**

Total: 21,069.40

Clarke will charge applicable sales taxes unless a valid exemption certificate is Emailed to: accountsreceivable@clarke.com or faxed to: 630-672-7439

* A 15% restocking fee plus freight costs may be assessed to any returned items. Items must be returned within 120 days of shipment and in an acceptable condition.

ANASTASIA MOSQUITO CONTROL DISTRICT OF ST. JOHNS COUNTY
CHEMICAL & FUEL INVENTORY
 MONTH OF JANUARY 2023

DRIVE
 BY: DENA OLIVA

CHEMICAL DESCRIPTION (Indicate lbs., gals. or ea.)		BEGINNING PHYSICAL COUNT	AMOUNT PURCHASED	TRANSFER IN	TRANSFER OUT	AMOUNT AVAILABLE	AMOUNT USED	ENDING "BOOK" BALANCE	PHYSICAL COUNT
WSP	EA.	41,084.00				41,084.00	1592.00	39,492.00	39,492.00
KR	LBS.	1,755.00				1,755.00	0.00	1,755.00	1,755.00
KRG	LBS.	26,440.00				26,440.00	0.00	26,440.00	26,440.00
XT	GALS.	238.01				238.01	9.63	228.38	228.38
R 20-20	GALS.	299.30				299.30	0.00	299.30	299.30
DKS (Doughnuts)	EA.	3,338.00				3,338.00	0.00	3,338.00	3,338.00
AR	GALS.	140.34				140.34	1.45	138.89	138.89
	GALS.	381.00				381.00	0.00	381.00	381.00
OMIST TWO	GALS.	76.00	220.00			296.00	0.00	296.00	296.00
	GALS.	510.00				510.00	0.00	510.00	510.00
DT	EA.	8,743.00				8,743.00	0.00	8,743.00	8,743.00
ELLETS	LBS.	44.00				44.00	0.00	44.00	44.00
MBG	LBS.	9,890.00				9,890.00	0.00	9,890.00	9,890.00
P	GALS.	78.59				78.59	0.03	78.56	78.56
C 12AS	GALS.	0.00				0.00	0.00	0.00	0.00
E	GALS.	2,124.00	2,489.00			4,613.00	737.12	3,875.88	3,862.00
	GALS.	3,855.00				3,855.00	282.59	3,572.41	3,616.00
TOTALS		98,996.24	2709.00	0.00	0.00	101,705.24	2,622.83	99,082.41	99,112.13

**ANASTASIA MOSQUITO CONTROL DISTRICT OF ST. JOHNS COUNTY
 CHEMICAL & FUEL INVENTORY
 January 2023**

ena Oliva

DESCRIPTION (Units, gals. or ea.)	BEGINNING PHYSICAL COUNT	AMOUNT PURCHASED	TRANSFER IN	TRANSFER OUT	AMOUNT AVAILABLE	AMOUNT USED	ENDING "BOOK" BALANCE	PHYSICAL COUNT	O (U
EA.	41,084.00				41,084.00	1,592.00	39,492.00	39,492.00	
EA.	1,755.00				1,755.00	0.00	1,755.00	1,755.00	
LBS.	26,440.00				26,440.00	0.00	26,440.00	26,440.00	
GALS.	238.01				238.01	9.63	228.38	228.38	
GALS.	299.30				299.30	0.00	299.30	299.30	
EA.	3,338.00				3,338.00	0.00	3,338.00	3,338.00	
GALS.	140.34				140.34	1.45	138.89	138.89	
GALS.	381.00				381.00	0.00	381.00	381.00	
TWO	GALS.	76.00	220.00		296.00	0.00	296.00	296.00	
GALS.	510.00				510.00	0.00	510.00	510.00	
EA.	8,743.00				8,743.00	0.00	8,743.00	8,743.00	
LBS.	44.00				44.00	0.00	44.00	44.00	
LBS.	9,890.00				9,890.00	0.00	9,890.00	9,890.00	
GALS.	78.59				78.59	0.03	78.56	78.56	
GALS.					0.00	0.00	0.00	0.00	
EOC DR.)	GALS.	2,124.00	2,489.00		4,613.00	737.12	3,875.88	3,862.00	
GALS.	3,855.00				3,855.00	282.59	3,572.41	3,616.00	
TOTALS	98,996.24	2,709.00	0.00	0.00	101,705.24	2,622.83	99,082.41	99,112.13	

Treatment Summary

From Date : 01-01-2023

To Date : 01-31-2023

Zone : All

Material : All

Task : All

Printed on 2023-02-01 07:31:42 EST

Material	Amount	Area Treated	Application Rate	Times
Altosid WSP	1592 ea	4.93 acre	322.68 ea / acre	14 times
Aquabac XT	1233 fl oz	77.06 acre	16 fl oz / acre	10 times
Cocobear	186 fl oz	0.48 acre	384.02 fl oz / acre	6 times
Talstar P	0.03 gal	0.09 acre	0.34 gal / acre	1 times

AMCD

Product Totals For Sites

Date Range From : 01/01/2023 12:00:00AM To : 01/31/2023 11:59:59PM

Pump - Hose	Transactions	Total Quantity
Product : 01 Unleaded		
Site Id : 003 Anasatisia Moquito Control		
01-1	55	737.123
Totals For Site :	55	737.123
Totals For Product :	55	737.123
Product : 02 Jet-A		
Site Id : 003 Anasatisia Moquito Control		
02-1	10	282.590
Totals For Site :	10	282.590
Totals For Product :	10	282.590

January mileage 2023

NAME	VEHICLE	MILEAGE
Ford Tractor	686	1,402
ATV	934	898
Backhoe	1018	869
ATV	1109	573
Service (TF)	1132	79,585
Fog MM2	1133	89,573
Service (TF)	1173	89,000
Fog MM2	1195	95,318
Service	1196	108,500
Surveillance	1197	77,071
Service	1198	78,002
Fog MM2	1199	60,083
Fog MM2	1200	82,111
Service	1201	79,000
Service	1202	44,800
Service	1203	73,659
Gator	1223	741
ATV	1273	0
Sevice	1342	108,295
Service Truck	1343	87,367
Polaris 4 Wheeler	1366	188
ATV	1367	180
Surveillance (Air Boat)	1410	118,991
Air Boat	1422	170
Dena Autry	1425	73,556
Service	1426	101,829
Phil Vaughn	1462	68,155
Holly Usina	1463	79,066
Ford Explorer	1479	64,841
Spare Dual	1484	66,487
Spare Dual	1485	68,746
David Strickland	1493	58,231
Jennifer	1494	60,231
Fork Lift	1536	228
Jerry Iser	1544	69,196
Dazmond Hackney	1546	53,717
Kyle Arber	1548	4,476
Cathy Hendricks	1550	66,955
Mike Phillips	1611	15,649
Jeremy Wohlforth	1613	29,888
Ruide Xue	1615	19,094
Service Expedition	1630	8,420
Dual Duty	1633	8,590
Gator	1666	177
Pending Dual Duty	1692	5,204
Maverick	1708	7,024
ATV	1718	6
ATV	1719	6

Anastasia Mosquito Control District of St. Johns County

120 EOC Drive, St. Augustine, FL 32092
Telephone: (904)-471-3107 * Fax (904) 471-3189 * Web: www.amcdsjc.org

BOARD OF COMMISSIONERS

Gayle Gardner, Chairperson
Trish Becker, Vice-Chairperson
Gina LeBlanc, Secretary/Treasurer
Catherine Brandhorst, Commissioner
Martha Gleason, Commissioner



DISTRICT DIRECTOR

Dr. Rui-de Xue



Thursday, February 9, 2023

Next Meeting(s): Thursday, March 9, 2023 – 5:00 PM

MINUTES

The regular Board meeting for the Anastasia Mosquito Control District of St. Johns County was held on Thursday, February 9, 2023, at 5:00 P.M.

Board members in attendance:

Mrs. Gayle Gardner, Chairperson
Mrs. Trish Becker, Vice-Chairperson
Mrs. Gina LeBlanc, Commissioner
Mrs. Catherine Brandhorst, Commissioner (Attended Via Telephone)
Mrs. Martha Gleason, Commissioner

Also in attendance:

Dr. Rui-De Xue, Director
Mr. Wayne Flowers, Attorney (Attended Via Telephone)

Chairperson Gardner called the meeting to order.

Commissioner Gleason led the invocation and the Pledge of Allegiance to the flag.

ROLL CALL: Chairperson Gardner noted ~ All were present, Commissioner Brandhorst requested to attend via telephone due to a family emergency, she arrived at 5:06 P.M.

EXTRA: The AMCD February 9, 2023 Board meeting experienced technical difficulties with the conference phone and mics. The issues were temporarily resolved and the meeting resumed at 5:18 P.M.

CITIZEN PARTICIPATION: For Items not on the Agenda ~ **NONE**

APPROVAL OF AGENDA: Chairperson Gardner called for approval of the Agenda.

A. A motion was made to approve the Agenda as presented.

- Motioned by: Commissioner LeBlanc
- Seconded by: Commissioner Becker
- VOTE accepted unanimously by all commissioners
- **MOTION PASSED UNANIMOUSLY**

APPROVAL OF CONSENT AGENDA: Chairperson Gardner called for approval of the Consent Agenda.

○ **THERE WAS NO MOTION ON THIS ITEM**

3. **Item 3:** Quarterly Budget Analysis ~Mr. Scott Hanna C.F.O./ Accountant

- Mr. Hanna mentioned he was asked to present a more detailed version of the Quarterly Budget Analysis, month to month, to add more clarification. Mr. Hanna explained government budgets are normally presented differently because they have the concept of interperiod equity where they look at all the current year revenues equal the current year expenditures. He explained at AMCD our revenues and expenditures are seasonal, which means one quarter the District will have a lot more revenues or expenditures than the other quarters. He explained that's why it's usually presented a quarterly budget but he is more than happy to present it month by month.

4. **Item 4:** Budget Amendment ~Mr. Scott Hanna C.F.O/ Accountant

- Mr. Hanna mentioned the budget amendment was pulled for discussion to add some clarification. Mr. Hanna explained usually budget amendments are to amend over spending, however, the District earned more revenue than the budget originally anticipated.

A. A motion was made to approve the budget amendment as presented.

- Motioned by: Commissioner Gleason
- Seconded by: Commissioner Becker
- VOTE accepted by: ALL Commissioners
- **MOTION PASSED UNANIMOUSLY**

NEW BUSINESS

Item 1: Update about State Auditing on Special District Accountability ~ *Dr. Rui-De Xue (10 min)*

- Dr. Xue stated he spoke with the auditor, Mr. Craig, on the phone and they reviewed online documents and were able to pull about 70-80% of the information needed from our website. He also mentioned the auditor would like to see the five (5) year work plan on our website. Dr. Xue explained the next step in the audit is for the auditor to visit the District and speak with related staff/Commissioners, please let him know if you would like to meet with the auditor.

Item 2: The Florida Mosquito Control Association (FMCA) Tallahassee Legislation Items and Participants ~ *Dr. Rui-De Xue (10 min)*

- Dr. Xue gave an overview of the FMCA talking points for the Tallahassee Legislation meeting, there is a \$2.66 million budget for mosquito control programs; which includes \$230,000 to support research positions at the Florida Medical Entomology Laboratory (FMEL), and \$500,000 for competitive research grants administered by DACS, and Commissioner Gleason will be team leader and reach out to legislation to make appointments.

Item 3: The American Mosquito Control Association (AMCA) Washington DC Legislation Items and Participants ~ *Dr. Rui-De Xue (10 min)*

- Dr. Xue stated that the Washington, DC meetings begin Monday, May 15th – 17th, 2023 and end Wednesday, May 17th by the end of the day; each person's hotel would be \$250 a night plus tax and a registration fee of \$125 each. Dr. Xue then asked which Commissioners are interested in attending. Commissioner Brandhorst, Becker, Gardner and Gleason requested to attend.

A. A motion was made to allow four (4) Commissioners to attend the AMCA Washington DC Conference.

- Motioned by: Commissioner Becker
- Seconded by: Commissioner Gleason

Chairperson Gardner adjourned the meeting at 6:33 P.M.

ATTEST _____
Chairperson, Commissioner Gayle Gardner Secretary/Treasurer, Commissioner Gina LeBlanc

These minutes are not intended to be a verbatim transcript of this meeting and could easily be misinterpreted by a reader who was not present. To obtain a full and accurate record of the meeting, an individual should view/listen to the entire proceedings via the District's DVD visual/recording system.

Anastasia Mosquito Control District of St. Johns County

120 EOC Drive, St. Augustine, Florida 32092

PH: (904) 471-3107 • Fax (904) 471-3189 • Web Address: www.amcdsjc.org

MEMO

BOARD OF COMMISSIONERS:

*Gayle Gardner, Chairperson
Trish Becker, Vice-Chairperson
Gina LeBlanc, Secretary/Treasurer
Catherine Brandhorst, Commissioner
Martha Gleason, Commissioner*



DISTRICT DIRECTOR:

Dr. Rui-De Xue

TO: Board of Commissioners

FROM: Dr. Rui-De Xue, Director

CC: Mrs. Martha Gleason, Commissioner

DATE: 2/24/2023

RE: Approval of Commissioner Mrs. Martha Gleason to visit Collier and Lee County Mosquito Control District and attend the Lee CMCD aerial workshop, April 17-20

Based on the Districts Commissioner Handbook requirements and policy, any Commissioner that travels out of St. Johns County for business needs to be approved by the Board.

Commissioner Mrs. Gleason will travel with staff to visit Collier and Lee County MCD and attend Lee CMCD aerial workshop, April 17-20, 2023. The estimated cost will be around \$700 (registration fee, 3-night hotel, and 3 per diem).

Thank you.

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MEMO

BOARD OF COMMISSIONERS:

Gayle Gardner, Chairperson
Trish Becker, Vice-Chairperson
Gina LeBlanc, Secretary/Treasurer
Catherine Brandhorst, Commissioner
Martha Gleason, Commissioner



DISTRICT DIRECTOR:

Dr. Rui-De Xue

TO: Board of Commissioners

FROM: Dr. Rui-De Xue, Director

CC: Heather Keating, Administrative Assistant

DATE: 2/24/2023

RE: Approval of updated job description for Assistant Director

AMCD Board of Commissioners approved to update/develop a new job description for the Assistant Director position.

Staff collected job descriptions of assistant directors from Collier, Pasco, Manatee, and Indian River MCDs and updated/developed a job description for the AMCD Assistant Director position for Board approval.

After the Board approves the job description, staff will post the job opportunity, collect applications, conduct interviews, and fill the assistant director position.

Thank you.

ASSISTANT DIRECTOR

Job Description

<u>Job Title</u>	<u>Department</u>	<u>Status</u>	<u>Reports to</u>
Assistant Director	Administration	Exempt	Executive Director

Purpose of Job: (Basic Function)

Under the authority of the Executive Director, Assistant Director helps the Executive Director to plan, organize, and direct the overall operation of the District and does related work as required. The Assistant Director also works in conjunction with the Business Manager, Entomologist /Scientific Manager, Chief Financial Officer (C.F.O.), Operation Supervisor, and Aviation Manager to assure the scientific-technical and control operations are carried out in accordance and conformance with established District, local, regional, and state policies and regulations.

RESPONSIBILITIES: (Main Duties)

- Determines scientific-technical operations in conjunction with the Entomologist/Scientific Manager
- Defines and administers the Good Laboratory Practice (GLP) organizational chart and structure, and assignment functions
- Assist the Executive Director to apply for Federal, State, and industry grants in relation to District mission and operation
- Execute the District's mission and purpose, including business, operational, public education and information and maintenance functions when the Executive Director absent.
- Assist to the Executive Director to prepare for the annual budget, including analysis and justifications; Conjunction with Business Manager and Chief Financial Officer to establishes and maintains an accounting system, develops related procedures and maintains budgetary controls over all expenditures;
- Assist to the Executive Director to prescribes and implements general rules, regulations, safety, and administrative policies;
- Assist to the Executive Director to analysis/recommend salary structure and maintains employee relations program;
- Assist to the Executive Director to develops and implements a formal program with written procedures for review and evaluation of employee work performance.
- Assist to the Executive Director to confers with general counsel and secures legal assistance as needed;

With cooperation from the Entomologist/Scientific Manager develops and oversees a system of planning, directing and conducting training programs for District personnel;

- Conjunction with Business Manager and C.F.O. to oversees all purchases for the District, as well as bid proposals, (RFP'S) contracts and coordinates all insurance policies;
- Determines, in conjunction with the Entomologist/Scientific Manager, the types/kinds of chemical applications used in the District's operational program and procedures and protocols for use;
- Keeps informed of local, regional, state or federal legislation that may have an impact on District functions;
- Serves as interagency spokesperson and representative for the District in meetings with various associated agencies, civic groups, and political entities as designated by the Director;
- Assist to the Director to participate actively in the programs of professional societies and associations affiliated with vector control or special district matters; and
- Performs other related work as required by the Executive Director.

NON-ESSENTIAL DUTIES AND RESPONSIBILITIES:

- Assist the District in any necessary duties to achieve District goals. Perform other related duties as assigned by the Executive Director.

QUALIFICATIONS:

- The successful applicant will have a M.S. degree or higher in Business Administration/Management, Public Administration, Biological Sciences or a closely related field from an accredited college or university and have 3 to 5 years of responsible experience as a public administrator in the public sector, including managerial and supervisory experience within a professional /technical service organization.

MINIMUM QUALIFICATIONS:

- Possess a current Florida Driver's License with no serious infractions, alcohol related violations or speeding /traffic violations within the past three years.
- Possess a Florida Public Health Pest Control License or receive the FPHPCL within 6- month employments.
- Possess a Florida DACS's Certificate for Director III in mosquito control within 6-month employments.

- Communicate effectively, verbally and in writing: understand and carry out verbal and written instructions in English.
- Posses and demonstrate a proficiency in varied computer software systems, including a strong background in word processing and database applications.
- Pass standard drug testing and background checks.
- Effectively solve problems with the following: Public, staff and members of Federal, State and Local agencies.
- Negotiate effectively.
- React appropriately to problems and render sound decisions.

SALARY RANGE: \$90,000 TO \$130,000 ANNUALLY WITH FULL BENEFITS

Unfinished Business #1

Anastasia Mosquito Control District of St. Johns County

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MEMO

DISTRICT DIRECTOR

Dr. Rui-De Xue



BOARD OF COMMISSIONERS:

Jeanne Moeller, Chairperson
Trish Becker, Vice-Chairperson
Gayle Gardner, Secretary/Treasurer
Catherine Brandhorst, Commissioner
Gina LeBlanc, Commissioner

TO: Board of Commissioners

FROM: Dr. Rui-De Xue, Director

CC: Mr. Richard Weaver, Business Manager

DATE: 2/24/2023

RE: SIT (Sterile Insect Technology) Building Update

Mr. Glenn Harrell, President of the Harrell Construction Company will give a progress update on the SIT (Sterile Insect Technology) building.



4185 Sunbeam Road, Bldg 200, Jacksonville, FL 32257
904-739-5700 Phone 904-739-5959 Fax

Transmittal

To: Board of Directors & Management	From: Glen Harrell
Company: AMCD	Pages: 1 of 1
Phone:	Date: 3/2/2023
Re: AMCD SIT Building Schedules	CC: Thompson, Super, File

Schedule Updates **Specification** **Change Order** **Attached** **Under Separate Cover**

We continue to suffer from supply chain delays, shortages and back orders as previously discussed. While we have been able to maintain our schedule until recently, we are losing ground due to delays in delivery for electrical lugs and breakers. These items will keep us from powering up the building thereby delaying completion. We are taking alternate action to provide temp. dehumidification so that we can move the project forward by installing flooring and cabinets..

The clean room doors will not be delivering until early June. We have attached a copy of our preliminary finishing schedule for your use.

Thank you for your support on this project.

Glen L. Harrell, Jr.

President

Unfinished Business #2

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MEMO

BOARD OF COMMISSIONERS:

*Gayle Gardner, Chairperson
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Gina LeBlanc, Secretary/Treasurer
Catherine Brandhorst, Commissioner
Martha Gleason, Commissioner*



DISTRICT DIRECTOR:

Dr. Rui-De Xue

TO: Board of Commissioners

FROM: Dr. Rui-De Xue, Director

CC: Mr. Scott Hanna, C.F.O

DATE: 2/24/2023

RE: Financial Monthly Report

Mr. Scott Hanna will discuss the financial monthly report.

Thank you.

Unfinished Business #3

Print

Close

From: Martha Gleason (martha.g.gleason@gmail.com)

Date: Tue, 24 Jan 2023 15:12:48 -0500

To: Rui-de Xue

Subject: Re: Item for agenda

Agreed. I forgot Mr. Flowers was not going to be in person at next month's meeting. Thank you for following up.

On Tue, Jan 24, 2023 at 2:53 PM Rui-de Xue <xueamcd@gmail.com> wrote:

I checked with Ms. Gardner. She suggested to list the re-election item on March 9's agenda when Attorney Mr. Flowers presents.

Thanks. Rudy

Sent from my iPhone

Print

Close

From: Martha Gleason (martha.g.gleason@gmail.com)
To: rxue@amcdf.org
Cc: Wayne Flowers
Subject: Re: FW: Proposed agenda for Feb 9 at 5pm Board meeting

Date: Mon, 23 Jan 2023 21:22:41 -0500

Hello Dr. Xue,

If my interpretation of the Board officer Election rules is accurate, I would like to add that to the February agenda. I would request clarification of the rules noted on the record.

If I'm accurate, I would request a revote for Vice Chair, and Secretary/Treasurer as that would be the right thing to do, but I would not want to engender animosity.

Thank you,
Martha

On Mon, Jan 23, 2023 at 4:49 PM Dr. Rui-De Xue <rxue@amcdf.org> wrote:

----- Original Message -----

From: Dr. Rui-De Xue [<mailto:rxue@amcdf.org>]

To: <ggardner@amcdf.org>, <equ6@aol.com>, <tbecker4amcd@protonmail.com>, <ginaleblanc492@yahoo.com>, <cbrandhorst@amcdf.org>, <mgleason@amcdf.org>, <wflowers@llw-law.com>

Cc: <wqualls@amcdf.org>, <rweaver@amcdf.org>, <shanna@amcdf.org>, <hkeating@amcdf.org>, <amckinney@amcdf.org>, <rstockley@amcdf.org>, <dsmith@amcdf.org>, <doliva@amcdf.org>, <kblore@amcdf.org>, <speper@amcdf.org>, <mfarooq@amcdf.org>, <tballantyne@amcdf.org>, <ssmolero@amcdf.org>, <rbruner@amcdf.org>, <mduett@amcdf.org>, <varyaprema@amcdf.org>, <ezeszutko@amcdf.org>, <ckuppe@amcdf.org>, <osypes@amcdf.org>

Sent: Mon, 23 Jan 2023 08:55:46 -0500

Subject: Proposed agenda for Feb 9 at 5pm Board meeting

Dear Commissioner and Chairperson Ms. Gardner:

Following collected items are proposed for Feb 9's Board meeting. If you and other Board members have any inputs, please let me know. We have started to collect and prepare for the documentations for the Board books and plan to deliver the board books on Feb 2 at noon.

Thanks and best regards.

Rudy Xue, Ph.D.
Director

Feb Board meeting
Feb 9 at 5pm
Proposed Agenda

Invocation and Pledge: Commissioner Mrs. Brandhorst

Consent items: Approval of:

1. Treasurer's report
2. Cancelled checks

Print

Close

From: Martha Gleason (martha.g.gleason@gmail.com)
To: Wayne Flowers
Cc: Rui-de Xue
Subject: Board officer elections

Date: Mon, 23 Jan 2023 14:40:51 -0500

Hello Wayne and Rui-De,

While I'm fine with results of Board elections, please note that page 3-5 of the Commissioners Handbook indicates that the only person subject to the 1 year of service on the Board is the Board Chairperson. Gayle Gardner was going to nominate me for Secretary/Treasurer and she was cutoff by Commissioner Becker citing this rule.

If there is another section I have missed, please point me to it. Otherwise, please let all Commissioners know of the misreading of this section.

Sincerely,
Martha Gleason
AMCD Commissioner

GUIDELINES FOR COMMISSIONERS

6 BOARD CHAIRPERSON QUALIFICATIONS

Any Commissioner nominated or otherwise considered by the Board for election to serve as Board Chair must first have completed at least one year of service as a Commissioner for the Anastasia Mosquito Control District prior to assuming the position of Board Chair. In the unlikely event that no sitting Commissioner has at least one year of experience at the time a Board Chair is elected, this policy will be waived.

CHAIRPERSON'S DUTIES

The Chairperson presides at all Board meetings and is also the spokesperson for the Board. He/she executes documents on behalf of the Board, and signs contracts, resolutions and reports to various agencies. In all other matters, the Chairperson has the same duties and responsibilities as any other commissioner and exercises the right to vote on all issues that come before the Board. It has been the practice to elect a Chairperson, Vice-Chairperson and Secretary/Treasurer at the regular board meeting in January of each year. In the absence of the Chairperson, the Vice-Chairperson performs the same duties.

7 DECORUM AND CIVILITY

I. PROMOTION OF DECORUM AND CIVILITY

The Board of Commissioners ("Board") recognizes that promoting and preserving decorum and civility best enables the Board to fairly and expeditiously conduct the business of the Anastasia Mosquito Control District ("AMCD").

While the Board is in session, the Chair shall preserve order and decorum. A Commissioner shall neither by conversation nor otherwise delay or interrupt the proceedings or the peace of the Board, nor disturb any Commissioner while speaking or refuse to obey the orders of the Board or its Chair.

II. MANNER OF SPEAKING

No Commissioner shall speak on any questions or discuss any matter, nor interrupt another, nor make a motion without first being recognized by the Chair. When two or more Commissioners seek recognition by the Chair, the Chair shall name the Commissioner who is to speak first. No Commissioner shall be interrupted by another without the consent of

BACK to "TOC"

⁶ Policy 2012-04, As approved by the Board of Commissioners on December 12, 2012, Policy 2012-04

⁷ As approved by the Board of Commissioners on 9-8-16

Unfinished Business #4



Florida Department of Agriculture and Consumer Services
Division of Agricultural Environmental Services

ARTHROPOD CONTROL BUDGET AMENDMENT

Submit to:
Mosquito Control Program
3125 Conner Blvd, Suite E
Tallahassee, FL 32399-1650

NICOLE "NIKKI" FRIED
COMMISSIONER

Rule 5E-13.027, F.A.C.
Telephone: (850) 617-7911; Fax (850) 617-7939

A STATEMENT EXPLAINING AND JUSTIFYING THE PROPOSED CHANGES SHOULD ACCOMPANY EACH APPLICATION FOR BUDGET AMENDMENT. USE PAGE TWO FOR THIS PURPOSE.

Amendment No. 2022-04

Fiscal Year: 2022-2023

Date: 3/9/2023

Amending: Local Funds X State Funds (Check appropriate fund account to be amended. Use a separate form for each fund). The Board of Commissioners for Anastasia Mosquito Control District hereby submits to the Department of Agriculture and Consumer Services, for its consideration and approval, the following amendment for the current fiscal year as follows:

ESTIMATED RECEIPTS

NOTE: The budget cannot be amended to show an increase in receipts over the amount budgeted unless authorized.

Total Available Cash and Receipts	Reserves	Present Budget	Increase Request	Decrease Request	Revised Budget
\$ 16,729,050.87	\$ 5,791,636.05	\$ 16,729,050.87	\$ 58,884.91	\$ -	\$ 16,787,935.78

NAME SOURCE OF INCREASE: (Explain Decrease) _____

BUDGETED RECEIPTS

ACCT NO	Description	Present Budget	Increase Request	Decrease Request	Revised Budget
311	Ad Valorem (Current/Delinquent)	\$ 7,394,483.00	\$ -	\$ -	\$ 7,394,483.00
334.1	State Grant	\$ -	\$ -	\$ -	\$ -
362	Equipment Rentals	\$ -	\$ -	\$ -	\$ -
337	Grants and Donations	\$ 290,000.00	\$ -	\$ -	\$ 290,000.00
361	Interest Earnings	\$ 59,083.82	\$ 58,884.91	\$ -	\$ 117,968.73
364	Equipment and/or Other Sales	\$ -	\$ -	\$ -	\$ -
369	Misc./Refunds (prior yr expenditures)	\$ 25,000.00	\$ -	\$ -	\$ 25,000.00
380	Other Sources	\$ -	\$ -	\$ -	\$ -
389	Loans	\$ -	\$ -	\$ -	\$ -
TOTAL RECEIPTS		\$ 7,768,566.82	\$ 58,884.91	\$ -	\$ 7,827,451.73
Beginning Fund Balance		\$ 8,960,484.05	\$ -	\$ -	\$ 8,960,484.05
Total Budgetary Receipts & Balances		\$ 16,729,050.87	\$ 58,884.91	\$ -	\$ 16,787,935.78

BUDGETED EXPENDITURES

NOTE: Total increase must equal total decrease, unless the total "Present Budget" is revised.

ACCT NO	Uniform Accounting System Transaction	Present Budget	Increase Request	Decrease Request	Revised Budget
10	Personal Services	\$ 2,390,263.00	\$ -	\$ -	\$ 2,390,263.00
20	Personal Services Benefits	\$ 1,291,192.00	\$ -	\$ -	\$ 1,291,192.00
30	Operating Expense	\$ 560,645.00	\$ -	\$ -	\$ 560,645.00
40	Travel & Per Diem	\$ 52,723.00	\$ 10,000.00	\$ -	\$ 62,723.00
41	Communication Services	\$ 30,574.52	\$ -	\$ -	\$ 30,574.52
42	Freight Services	\$ 5,500.00	\$ -	\$ -	\$ 5,500.00
43	Utility Service	\$ 58,000.00	\$ 18,216.13	\$ -	\$ 76,216.13
44	Rentals & Leases	\$ 1,000.00	\$ -	\$ -	\$ 1,000.00
45	Insurance	\$ 170,000.00	\$ 30,668.78	\$ -	\$ 200,668.78
46	Repairs & Maintenance	\$ 200,150.00	\$ -	\$ -	\$ 200,150.00
47	Printing and Binding	\$ 500.00	\$ -	\$ -	\$ 500.00
48	Promotional Activities	\$ 20,000.00	\$ -	\$ -	\$ 20,000.00
49	Other Charges	\$ 6,325.00	\$ -	\$ -	\$ 6,325.00
51	Office Supplies	\$ 22,000.00	\$ -	\$ -	\$ 22,000.00
52.1	Gasoline/Oil/Lube	\$ 137,000.00	\$ -	\$ -	\$ 137,000.00
52.2	Chemicals	\$ 739,505.00	\$ -	\$ -	\$ 739,505.00
52.3	Protective Clothing	\$ 2,500.00	\$ -	\$ -	\$ 2,500.00
52.4	Misc. Supplies	\$ 195,674.30	\$ -	\$ -	\$ 195,674.30
52.5	Tools & Implements	\$ 5,000.00	\$ -	\$ -	\$ 5,000.00
54	Publications & Dues	\$ 30,240.00	\$ -	\$ -	\$ 30,240.00
55	Training	\$ 39,000.00	\$ -	\$ -	\$ 39,000.00
60	Capital Outlay	\$ 3,900,847.00	\$ -	\$ -	\$ 3,900,847.00
71	Principal	\$ -	\$ -	\$ -	\$ -
72	Interest	\$ -	\$ -	\$ -	\$ -
81	Aids to Government Agencies	\$ -	\$ -	\$ -	\$ -
83	Other Grants and Aids	\$ -	\$ -	\$ -	\$ -
89	Contingency (Current Year)	\$ 1,078,776.00	\$ -	\$ -	\$ 1,078,776.00
99	Payment of Prior Year Accounts	\$ -	\$ -	\$ -	\$ -
TOTAL BUDGET AND CHARGES		\$ 10,937,414.82	\$ 58,884.91	\$ -	\$ 10,996,299.73
0.001	Reserves - Future Capital Outlay	\$ 3,700,225.05	\$ -	\$ -	\$ 3,700,225.05
0.002	Reserves - Self-Insurance	\$ -	\$ -	\$ -	\$ -
0.003	Reserves - Cash Balance to be Carried Forward	\$ 1,961,411.00	\$ -	\$ -	\$ 1,961,411.00
0.004	Reserves - Sick and Annual Leave	\$ 130,000.00	\$ -	\$ -	\$ 130,000.00
TOTAL RESERVES		\$ 5,791,636.05	\$ -	\$ -	\$ 5,791,636.05
TOTAL BUDGETARY EXPENDITURES and BALANCES		\$ 16,729,050.87	\$ 58,884.91	\$ -	\$ 16,787,935.78
ENDING FUND BALANCE		\$ -	\$ -	\$ -	\$ -

APPROVED: _____
Chairman of the Board, or Clerk of Circuit Court

DATE _____

APPROVED: _____
Mosquito Control Program

DATE _____

COMPUTATIONS

LOCAL FUND

I) **Balance of Sources and Uses of Funds** (Additional Revenues, above budget, matched to Expenditures)

Receipts:

Revenue: Interest Earnings 58,884.91

58,884.91

Expenditures:

Travel & Per Diem (10,000.00)

Insurance (30,668.78)

Utility Service (18,216.13)

Budget Amendment (Net Effect)

-

ANASTASIA MOSQUITO CONTROL DISTRICT OF ST. JOHNS COUNTY
FISCAL YEAR ENDING SEPTEMBER 30, 2023

LOCAL FUND BUDGET AMENDMENT NUMBER 2023-04

JOURNAL ENTRIES:

BUDGET AMENDMENT ADJUSTMENT ENTRIES:

Dr) EXPENDITURES: Travel & Per Diem	\$	10,000.00	
EXPENDITURES: Insurance	\$	30,668.78	
EXPENDITURES: Utility Service	\$	18,216.13	
Cr) REVENUE: Interest Earned			\$ 58,884.91
	\$	58,884.91	\$ 58,884.91

New Business

#1

Anastasia Mosquito Control District of St. Johns County

120 EOC Drive, St. Augustine, Florida 32092

PH: (904) 471-3107 • Fax (904) 471-3189 • Web Address: www.amcdsjc.org

MEMO

BOARD OF COMMISSIONERS:

*Gayle Gardner, Chairperson
Trish Becker, Vice-Chairperson
Gina LeBlanc, Secretary/Treasurer
Catherine Brandhorst, Commissioner
Martha Gleason, Commissioner*



DISTRICT DIRECTOR:

Dr. Rui-De Xue

TO: Board of Commissioners

FROM: Dr. Rui-De Xue, Director

CC: Mrs. Trish Becker, Commissioner

DATE: 2/24/2023

RE: Commissioner Becker and Dr. Rui-De Xue will report about the AMCA meeting

Commissioner Mrs. Becker and Dr. Rui- De Xue will give report about the AMCA meeting.

Thank you.

New Business

#2

Good Afternoon Dr. Xue,

Thanks you for the materials you've provided.

I am reaching out as we're looking to set up virtual or phone interviews within the next week or two. We have some of the publicly available and shared information to prepare for our discussion. I've attached an excel table we are required to fill out as part of this review effort, which we will ask you to confirm during our interview. We want to know if our data is incorrect. Please feel free to edit the attached spreadsheet and we can discuss any changes during the interview.

If you would, please let me know of your availability for any of the following time slots, or do suggest another time that works for you. We are blocking out an hour but should not need the full hour.

- Wednesday, February 22nd, 11AM-12PM
- Wednesday, February 22nd, 2PM-3PM
- Thursday, February 23rd, 11AM-12PM
- Thursday, February 23rd, 2PM-3PM

Thanks for your help with this. I look forward to hearing from you.

CJD
Craig Diamond
Regional Manager, Economics



The Balmoral Group
113 S. Monroe Street | Tallahassee, FL 32301
Phone: 850-201-7165 | Fax: 850-201-7101
Visit our [website](#) for more information!

Virtual interview was conducted on Feb 22 at 11am.
Dr. Xue, Dr. Qualls, Mr. Weaver & Mr. Hanna attended
the interview. Their side had 4 people include Mr.
Doug Carlson, former Director of Indian River Mosquito
Control District.
Dr. Xue filled the forms &
Sent back to Mr. Diamond.

Purdie Xue
2-22-23

Name of District	Current District Charter/Legal Authority and Amendments (a full version of the currently applicable charter or other legal authority must be provided)
Anastasia Mosquito Control District of St. Johns County	https://amcdsjc.org/wp-content/uploads/2020/10/Chpt-99-449-Laws-of-Fla-01388127xBA9D6.pdf https://amcdsjc.org/wp-content/uploads/2020/08/Charter.pdf https://www.ethics.state.fl.us/Research/EthicsLaws.aspx

Link to District's Website	Email Address for the District's Point of Contact
<u>Anastasia Mosquito Control mosquito born diseases, St. Augustine, FL, St Johns County (amcdsjc.org)</u>	<u>rxue@amcdfi.org</u>

Address of District Headquarters	County or Counties in Which District Resides
120 EOC Drive St. Augustine, FL 32092	St. Johns

Square Mileage of the District	Link to a Map of the District
All 609 square miles of St. Johns County	https://irp.cdn-website.com/ed388134/files/uploaded/2022_Precinct_Map_24x29.pdf

Description of District's Purpose(s)	Description of District's Goals
<p>The Anastasia Mosquito Control District (AMCD) started its humble beginnings in 1948. The District was formed from the desire of the people of Anastasia Island to live mosquito free deciding to tax themselves to provide funds for a mosquito control program.</p>	<p><i>Prevent and control mosquitoes and mosqu</i></p>

List of Services Provided by the District	List of Non-District, Local Government Agencies That Are Assisted by the District
Surveillance, larviciding, adulticiding, public education, and evaluation of products for mosquito surveillance and control	<i>Assist African malaria control, national and</i>

Number of District Board Commissioners	Number of Vacancies on District Board of Commissioners
5 Commissioners + 3 Appointed SM	0

Did the District Board Hold at Least One Meeting Per Month in FY 2022?	Millage Rate(s) for Tax Year 2022
Yes, November meeting was cancelled due to the Florida Mosquito Control Association meeting and 2-3 meetings in September	0.19

Number of Real Property Parcels Subject to District Millage for Tax Year 2022	Taxable Value of Parcels for Tax Year 2022
Is a GIS shapefile or KMZ file available of the district? If not, is the country boundary a sufficient boundary for the District?	39,568,169,333

Number of Tangible Personal Property Accounts Subject to District Millage for Tax Year 2022	Taxable Value of Accounts for Tax Year 2022
1,357,070,893	39,375,930,038

Amount of Revenue from Millage for FY 2022	Amount of Revenue From Other Sources for FY 2022
\$6,600,191.00	\$432,500.00

Total Revenue From All Sources for FY 2022	Amount of Administrative Costs for FY 2022
\$7,032,691.00	\$1,927,926.00

Amount of Direct Program and Activity Costs for FY 2022	Amount of Other Expenditures
\$5,902,757.00	\$861,375.00

Amount of Long-Term Debt in FY 2022	Total Amount of Expenditures for FY 2022
\$0.00	\$8,692,058.00

Number of Paid, In-House Staff in FY 2022	Number of Contracted Staff in FY 2022
28 full time and 7 seasonal full time (6 months only)	4 grant contracted position

Number of Volunteers in FY 2022	Number of Major Equipment/Vehicles Owned, Leased, and/or Rented in FY 2022
<i>5 adjunct and 4 high school students. They</i>	<i>40 vehicles, 3 helicopters, 1 airboat</i>

Number of Facilities Owned, Leased, or Rented in FY 2022	Does the District Have Performance Measures and Standards?
<i>8 buildings, 3 outdoor enclosures</i>	Yes

Link to District Performance Measures and Standards

mosquito control operations, St. Augustine, FL, ground and aerial operations, surveillance (amcdsjc.org)

New Business

#3

Anastasia Mosquito Control District of St. Johns County

120 EOC Drive, St. Augustine, Florida 32092

PH: (904) 471-3107 • Fax (904) 471-3189 • Web Address: www.amcdsjc.org

MEMO

BOARD OF COMMISSIONERS:

*Gayle Gardner, Chairperson
Trish Becker, Vice-Chairperson
Gina LeBlanc, Secretary/Treasurer
Catherine Brandhorst, Commissioner
Martha Gleason, Commissioner*



DISTRICT DIRECTOR:

Dr. Rui-De Xue

TO: Board of Commissioners

FROM: Dr. Rui-De Xue, Director

CC: Heather Keating, Administrative Assistant

DATE: 2/24/2023

RE:

Attached is a draft copy of the 2022 Annual Program Report and a draft 18th Workshop Program Agenda.

Thank you.

Reports

Director report (Feb 2023)

Program Management: Customer & professional service and service request process: AMCD answered several service requests in Feb. Scientists reviewed 8 manuscripts. Dr. Xue attended AMCA monthly Board zoom meeting, and Clarke Mosquito Control meeting. Dr. Qualls attended the ESA zoom meeting about intern training. Dr. Peper works on the Wing Beats adv for the FMCA, Dr. Qualls works for the Dodd short course, and Dr. Xue works on the JFMCA. Dr. Farooq works on equipment demo with industry.

Surveillance: Sentinel chickens have been ordered and chicken cages and supply have been fixed and ready to use. BG sentinel traps with BG lures and dry ice for mosquitoes and arbovirus surveillance were continued at once a week. The Culex and Anopheles adult mosquitoes were caught by BG traps baited with dry ice & CDC light traps.

Ground and aerial operation: Positive larval dips were founded from a few site and MC Technicians treated larvae directly when they found. No ULV spraying was conducted. More detail data will be provided in early March.

Applied research: District submitted the CDC's 5-year grant application and NACCHO training grant application. All research projects have been restarted. Annual program report has been worked out.

Education: Four Board members and 17 employees attended the FMCA Dodd short courses. Annual workshop program has been updated and CEU's credits have been approved by the DACS. St. Augustine High School Aerial Academy students plan to take a tour of AMCD facility on Feb 28. Face book, twitter, and website have been updated at weekly.

Business Management & Administration:

Serve to the Board of Commissioners: Staff prepared for Feb 9'ss Board meeting, Board meeting minutes, proposed and final agenda, assisted Board members for the FMCA legislation and AMCA legislation meeting.

Budget and Auditor: Auditor has started collecting financial data and prepares for annual auditor report in May Board meeting.

Contract: SIT building is still under process.

HR & Policy: Employee handbook has been approved by the Board on Feb 9's meeting. Three students from UNF applied for internship and scheduled for interview in March. The employee annual performance evaluation has been done.

Meeting:

Feb 1- 2. Attended Dodd short course. Four Commissioners and 17 employees attended different courses.

Feb 3. Met Dr. Dan Hanh at UF about collaboration of SIT. Met Dr. Phil Koehler about graduate student project. Met Dr. Rachel Mallinger about mosquito as pollination at UF.

Feb 6. AMCD hosted Florida pest control training. Reviewed a manuscript for the JME.

Feb 7. 10:30am. Met Chairperson Ms. Gardner about proposed agenda. Tele-conversation with Commissioner Brandhorst about her calling in.

Feb 8. 1pm. Met Commissioner Mrs. Gleason and Mr. Hanna about financial report and proposed agenda. Reviewed a manuscript for Plants.

Feb 9. 7:30am. Attended Kiwanis Club meeting about school board items. Reviewed a manuscript for J. Pure Applied Microbiology about bacteria for larvicide. 5pm. Attended Board meeting.

Feb 13. Reviewed a manuscript for Pest Management Science.

Feb 14-17. Attended Clarke Mosquito control training.

Feb 16. AMCD sent 3 employees to attend UF/EPI research day.

Feb 21. Attended USDA/ARS stockholder zoom meeting.

Feb 22. Am. Attended AMCD employee training. 11am. Attended the interview by virtual with the Balmoral Group for auditing. Dr. Qualls, Mr. Weaver, and Mr. Hanna attended.

Feb 23. 7:30am. Attended Kiwanis Club meeting about homeless at St. Augustine. 12pm. Attended AMCA executive committee meeting.

Feb 27-March 3. Attended AMCA annual meeting. Commissioners Gardner, Becker, Dr. Qualls, Dr. Peper, and Dr. Farooq attended the meeting in Reno.

February 1, 2023

Dr. Rui-De Xue, Executive Director
Anastasia Mosquito Control District
120 EOC Drive
St. Augustine, FL 32092

Dear Dr. Xue:

As mandated by chapter 189.04(2), Florida Statutes, rather than conducting your own election, you requested this office to handle the 2022 elections for the Anastasia Mosquito Control District.

The Anastasia Mosquito Control District is a countywide district and the races for the District appear on every ballot in the county. In the 2022 General Election, no additional election costs were incurred specifically due to your District's election being conducted by the Supervisor of Elections Office; therefore, there is no charge to the Anastasia Mosquito Control District for your 2022 General Election. This information is for your records only.

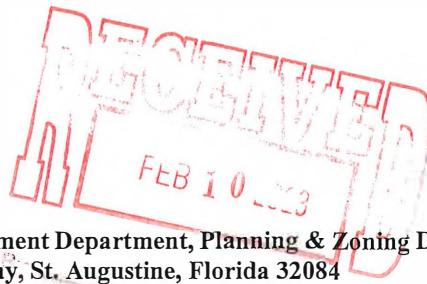
Thank you for your cooperation, and please call me if you have any questions.

Sincerely,



Vicky Oakes
Supervisor of Elections

VO/ml



St. Johns County Growth Management Department, Planning & Zoning Division
4040 Lewis Speedway, St. Augustine, Florida 32084
Phone: (904) 209-0675 E-mail: plandept@sjcfl.us

ADJACENT PROPERTY OWNER NOTICE

TO: All property owners within 300 feet of the land described herein.
FROM: St. Johns County Planning & Zoning Division, Growth Management Department
SUBJECT: File number: PUD-2022000016
Project Name: St. Johns Commerce Park

You have received this notice because you own property within a 300-foot radius of the subject property depicted on the attached map(s). This is notice of a public hearing scheduled for the request as described below.

APPLICATION FILED BY: Brad Wester
One Independent Drive, Suite 1200
Jacksonville, FL 32202

LOCATION OF PROPERTY: unaddressed parcels located at the SW Corner of EOC Drive and Agricultural Center Dr

REQUESTED CHANGE: Request to rezone approximately 40.33 acres of land from Open Rural (OR) to Planned Unit Development (PUD) to allow for up to 310,350 sq ft of commercial/office uses and industrial warehouse type uses.

NOTICE OF PUBLIC HEARING: Notice is hereby given that a Public Hearing will be held on 3/16/2023 at 1:30 pm before the Planning and Zoning Agency in the St. Johns County Auditorium located at 500 San Sebastian View, St. Augustine, Florida and on 4/18/2023 at 9:00 am before the Board of County Commissioners in the St. Johns County Auditorium located at 500 San Sebastian View, St. Augustine, Florida to consider the above described application.

If a person decides to appeal any decision made with respect to any matter considered at such meeting or hearing, he or she will need a record of the proceedings, and for such purpose, he or she may need to ensure that a verbatim record of the proceedings is made, which record includes the testimony and evidence upon which the appeal is to be based.

Not less than 15 days in advance of this hearing date, sign(s) will be posted on the subject property on each street side of the property. If no street frontage is available, sign(s) will be posted on the nearest street frontage with a note providing the location of the subject property. The sign(s) shall provide the request and a phone number where additional information may be obtained. In the event that no signs are observed, citizens are asked to notify the Planning & Zoning Division.

Please be advised you may attend the meeting indicated in the notice and state your opinions, or you may reply by mail to: St. Johns County Planning & Zoning Division, 4040 Lewis Speedway, St. Augustine, Florida 32084 or by e-mail to: plandept@sjcfl.us. Your response will be acknowledged at said Public Hearing.

This matter is subject to court imposed quasi-judicial rules of procedures. Decisions must be made on Competent Substantial Evidence, which are fact-based testimony and evidence presented as a part of the hearing. Acceptable citizen testimony includes, but is not limited to: first-hand knowledge of the area; observed



St. Johns County Growth Management Department, Planning & Zoning Division
4040 Lewis Speedway, St. Augustine, Florida 32084
Phone: (904) 209-0675 E-mail: plandept@sjcfl.us

By: _____

ADJACENT PROPERTY OWNER NOTICE

TO: All property owners within 300 feet of the land described herein.
FROM: St. Johns County Planning & Zoning Division, Growth Management Department
SUBJECT: File number: CPA(SS)-2022000010
Project Name: St. Johns Commerce Park

You have received this notice because you own property within a 300-foot radius of the subject property depicted on the attached map(s). This is notice of a public hearing scheduled for the request as described below.

APPLICATION FILED BY: Brad Wester
One Independent Drive, Suite 1200
Jacksonville, FL 32202

LOCATION OF PROPERTY: unaddressed parcels located at the SW Corner of EOC Drive and Agricultural Center Dr

REQUESTED CHANGE: Request for a Small-Scale Comprehensive Plan Amendment to change the Future Land Use Map designation of approximately 20.41 acres of land from Rural/Silviculture (R/S) and Residential-B (Res-B) to Mixed Use District (MD).

NOTICE OF PUBLIC HEARING: Notice is hereby given that a Public Hearing will be held on 3/16/2023 at 1:30 pm before the Planning and Zoning Agency in the St. Johns County Auditorium located at 500 San Sebastian View, St. Augustine, Florida and on 4/18/2023 at 9:00 am before the Board of County Commissioners in the St. Johns County Auditorium located at 500 San Sebastian View, St. Augustine, Florida to consider the above described application.

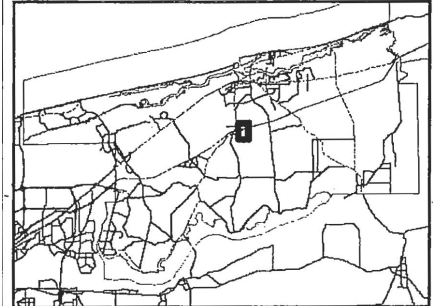
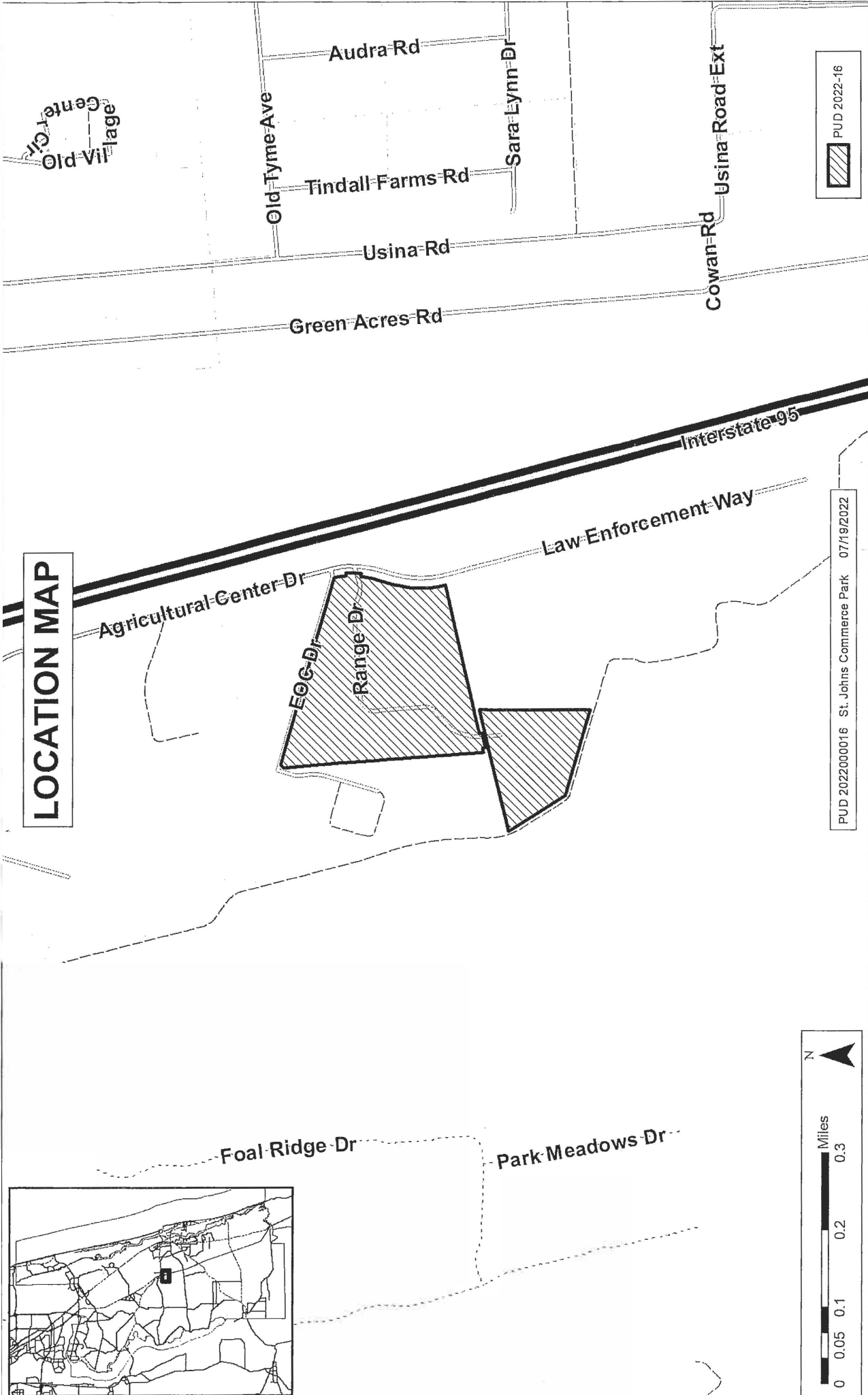
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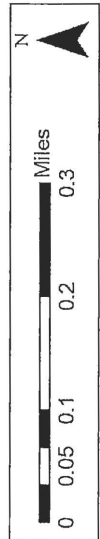
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LOCATION MAP



PUD 2022-16

PUD 2022000016 St. Johns Commerce Park 07/19/2022



Attachments

ANASTASIA MOSQUITO CONTROL DISTRICT



OF ST. JOHNS COUNTY

ANNUAL PROGRAM REPORT FOR 2022

As an essential business AMCD
continued all operations through the
Covid-19 pandemic.

120 EOC Drive,
St. Augustine,
FL 32092

(904) 471-3107

www.amcdsjc.org



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Message from Chairperson of the Board of Commissioners

As Chair for 2022 and my retirement from AMCD effective 12/31, I am going to take this opportunity to highlight some of our successes over the last years. Please know that none of this could have been achieved without my fellow board members both past and present. Our professional staff have also been supportive of the changes and without their hard work and dedication none of this would have become a reality.

*Each year we answer approximately 5,000 service call and have had only 1 local- acquired human mosquito-borne disease in 19 years!

*We have received more than \$2 millions in funds from Federal, State, local and industry partners.

*Our annual workshop attract more than 220 participants both statewide, nationally and internationally.

*We have been recognized as one of the training centers by the American Mosquito Control Association, CDC/ Southeastern Centers of Excellence. National Association of City and County Health Officials and the Entomological Society of America.

*Our staff has authored or coauthored more than 200 publications or book chapters. We are the number one cited district for operational vector control.

*Our employees have received 18 State and National Awards.

*Lastly we have built a state of the art scientific agency on our 18 acres.

*Our last build outs are our Educational Center that the SJC School Board stated that this is a huge benefit to the schools and to our community.

*The SIT LAB is our last project and will help change the way mosquito control agencies do business in the future.

I am proud of our district and its past successes. I know future boards will continue to support our staff and keep our residents informed and safe from mosquito-borne diseases. It was my pleasure to represent the residents of SJC for the last 16 years.



Mrs. Jeanne Moeller

Message from The Director

In 2022 AMCD had the longest and toughest season with response efforts to control mosquitoes and mosquito-borne diseases due to hurricane Ian and Nicole. The 1st locally-acquired human case of WNV happened since 2003. This year, there were two imported dengue fever cases, two imported malaria cases, a positive WNV horse, a positive EEE horse, several sentinel chickens positive for WNV and a positive mosquito pool in St. Johns County. It was an unusual outbreak of salt marsh mosquito populations and it happened on Anastasia Island and St. Augustine South areas after the Thanksgiving holiday. AMCD's aerial capability was fully operational for surveillance and control of the mosquito outbreak and also assisted the county's agencies to respond and inspect St. Johns County for damage assessments after the hurricanes. AMCD successfully held the 17th Arbovirus Surveillance and Mosquito Control Workshop with more than 200 participants nationwide after being postponed for two years due to the pandemic of COVID-19. In the middle of January, for the first time AMCD hosted the Florida Mosquito Control Association's fly-in class and attracted more than 160 people to participate. AMCD organized and held the Sterile Insect Technique (SIT) expert/consult meeting to update progress and explore further cooperation on December 8th. AMCD received more than \$400k in grant funding from federal, state, and private companies in 2022. The DoD/AFPMB's grant 2nd year and the CDC collaboration grant with UF was completed by the end of 2022. A larvicide project has been conducted under the Good Laboratory Practice (GLP). AMCD received the Entomological Society of America's award to train/host intern students and partnership award from St. Johns County School Board for training intern students from Ponte Vedra High School for the past 2 years. Commissioner Mrs. J. Moeller received the leadership award from the AT&T Governmental Technology for special districts. I received the medal of honor (the highest award) from the American Mosquito Control Association (AMCA) and was elected as the President-Elect for the AMCA. Mr. R. Weaver was elected as the President-Elect for the FMCA. The Disease Vector Education Center was dedicated on December 8, 2022 and AMCD is planning a grand opening in the summer of 2023. The Sterile Insect Technique (SIT) mass rearing facility has been constructed and plans to open in the summer of 2023. I greatly appreciate and thank the strong support from our Board of Commissioners, dedicated employees, excellent collaborators, experts worldwide and funding agencies to our District to continue providing the excellent services to the citizens of St. Johns County.



Dr. Rui-De Xue

Board of Commissioners



Mrs. Catherine Brandhort
Seat 1
2021-2024

Mrs. Jeanne Moeller
Seat 2
2007-2022



Mrs. Gina LeBlanc
Seat 3
2017-2024

Mrs. Panagiota K. "Trish" Becker
Seat 4
2019-2022



Mrs. Gale Gardner
Seat 5
2021-2024

Appointed Offices



Mr. Wayne Flowers
Attorney Since: 11-9-10



Ms. Julieann Klein
CPA Since: 9-11-03



Dr. Rui-De Xue
Hired: 4-14-03
Director Since: 2005

Full Time Employees

Johns Freddie Allen



Mechanic
7-08-2002 to Present

Steven Kyle Arber



Mosquito Control Technician
5-01-2017 to Present

Dr. Vindhya Aryaprema



FT Grant Funded Term Limited Biologist
8-05-2019 to 7-15-2023

Taylor Ballantyne



Education Specialist
10-4-2021 to Present

Kai Blore



Biological Lab Technician
4-02-2019 to Present

Ralph Bruner



A&P Aircraft Mechanic
9-03-2019 to Present

Morgan Duett



Mosquito Control Technician, Surveillance
2-06-2017 to Present

Dr. Muhammad Farooq



Field Biologist
9-16-2019 to Present

Dazmond Hackney



Mosquito Control Technician
2-02-2021 to Present

Scott Hanna



Accountant/Chief Financial Officer
7-03-2007 to Present

Cathy Hendricks



Mosquito Control Technician
7-08-2002 to Present

Jerry Iser



Mosquito Control Technician
2-02-2015 to Present

Heather Keating



Administration Assistant
10-03-2022 to Present

Connor Kuppe



Biological Technician
8-1-2022 to Present

Aye McKinney



Accountant
1-04-2021 to Present

Dr. Steven Peper



Molecular Entomologist/Biologist
3-23-2020 to Present

Michael Phillips



Pilot
2-24-2020 to Present

Dr. Whitney Qualls



Entomologist/Scientific Manager
10-28-2019 to Present

Dana Smith



Chief Pilot/Aviation Manager
4-27-2020 to Present

Steven Smoleroff



Biological Technician
10-02-2017 to Present

Rick Stockley



Information Technology (IT)
2-04-2013 to Present

Olivia Sypes



FT Grant Funded Term Limited Biological Technician
4-06-2020 to 7-15-2023

Holly Usina



Mosquito Control Technician
1-3-2022 to Present

Richard Weaver



Business Manager
4-14-2003 to Present

Jeremy Wohlforth



Mosquito Control Technician
2-06-2017 to Present

James Wynn



Mechanic
3-04-1996 to Present

Dr. Rui-De Xue



Director
4-14-2003 to Present

Edward Zeszutko



Biological Technician
8-1-2022 to Present

2022 Resigned & Retired

Madeline Steck



FT Grant Funded Term Limited Biological Technician
10-01-2020 to 9-30-2022

Heather Ward



Biological Technician
4-27-2020 to 6-27-2022

Lea Bangonan



FT Grant Funded Biological Technician
6-03-2019 to 12-31-2022

David Strickland



Mosquito Control Technician
3-10-1997 to 6-13-2022

Marcia Kay Ganes



Operations Manager
8-7-2000 to 9-31-2022

Full Time Seasonal (6 month) Employees



Jennifer Dentmon
Mosquito Control Technician
5-2-22 to 10-28-22



Kyle Graham
Mosquito Control Technician
5-2-22 to 10-28-22



Logan Hicks
Mosquito Control Technician
5-2-22 to 10-28-22



James Stokley
Mosquito Control Technician
5-2-22 to 10-28-22















Philip Vaughn
Mosquito Control Technician
5-2-22 to 10-28-22



Charles Woody
Mosquito Control Technician
5-2-22 to 10-28-22

Interns and Volunteers

 Arthi Ram AMCD High School Volunteer Ponte Vedra High School 6 week	 Laryssa Fanney AMCD Lab Intern 5-10-2021 to Present	 Kassidy Caride AMCD Lab Intern 5-16-2022 to 8-11-2022
 Jace Lim AMCD High School Volunteer Ponte Vedra High School 6 week	 Heather Keating AMCD Administration Intern 4-4-2022 to 9-31-2022	 Shaelynn Profulias AMCD Lab Intern 2-1-2022 to 3-14-2022
 Iulia Bernau AMCD High School Volunteer Ponte Vedra High School 6 week	 Maddox Kufenburg AMCD Lab Intern 5-10-2022 to 10-28-2022	 Jonathan Shugart AMCD Lab Intern 6-13-2022 to 7-31-2022
 Keats Reddick AMCD High School Volunteer Ponte Vedra High School 6 week	 Edward Zeszutko AMCD Lab Intern 6-13-2022 to 7-31-2022	 Jonathan Shugart AMCD Lab Intern 6-13-2022 to 7-31-2022

Adjunct Professors



Dr. Stephen Dobson
Adjunct Senior Entomologist
March 2020



Dr. Michael Turell
Adjunct Senior Arbovirologist
October 2018



Dr. Gunter Muller
Adjunct Senior Vector Entomologist
October 2018



Dr. Ulrich Bernier
Adjunct Senior Chemist
2022



Dr. Donald R. Barnard
Senior Vector Biologist
2022

Administration Personnel and Recognitions

Personnel

Starting on October 3, 2022 Mr. Kai Blore was promoted as Laboratory Manager, Mr. James Wynn was promoted as Senior Mechanic, Dr. Muhammad Farooq as MC Engineer, Mr. Rick Stockley as IT Specialist, and Mrs. Heather Keating as Administrative Assistant. Mr. Edward Zeszutko was promoted as Biological Technician from Lab Intern in August. Mr. Kyle Graham was promoted as Full Time MC Technician (starting 2/6/2023) from Seasonal MC Technician. Mr. Connor Kuppe was hired as Biological Technician 7/11/2022. As of June 13, 2022, MC Technician, Mr. David Strickland retired and as of September 30, 2022, Operations Manager, Mrs. Marcia Kay Gaines retired. As of 6/27/2022, Biological Technician Ms. Heather Ward Resigned. The grant funded, limited time, full time positions this year: Dr. Vindhya Aryaprema, Biologist (7-15-2023), Ms. Olivia Sypes, Biological Technician (7-15-2023), Ms. Madeline Steck, Biological Technician (9-30-2022), and Lea Bangonan, Biological Technician (12- 31, 2022).

AMCD six-week student intern program: Jace Lim, Keats Reddick, Arthi Ram, and Ilulia Berianu from Ponte Vedra High school. AMCD Paid High School Interns from June - August 2022, Jonathan Shugart and Maddox Kaufenburg. AMCD College Interns: Kassidy Caride (Florida State University, funded by CDC Southeastern Center for Excellence in Vector-borne Disease) and Shealyn Prouflias (Rutgers University).

The seasonal staff that worked for AMCD were: Mr. Mahendra Siriwardhane, Mr. James Stokley, Mr. Kyle Graham, Mr. Logan Hicks, Mr. Philip Vaugh, Mr. Charles Woody, Mr. Edward Zeszutko, Mrs. Jennifer Dentmon, Ms. Laryssa Fannee and Mrs. Heather Keating. Visiting Scientists, Dr. Gunter Muller and Dr. Edita Revay.

Recognitions and Awards

The following AMCD personnel received an award for their years of service with the District:

- Mr. Freddie Allen, 20 years
- Ms. Cathy Hendricks, 20 years
- Mr. Scott Hanna, 15 years
- Mr. Steven Smoleroff, 5 years
- Mr. Kyle Arber, 5 years

The Management Choice Award this year went to Mr. Scott Hanna, Mr. Jeremy Wohlforth, and Mr. Ralph Bruner for their significant contributions and dedication to the District throughout the year. Mr. Richard Weaver was given the Outstanding Employee award for his significant dedication to the District. AMCD received the award for business partnership from SJC School Board for PV High School intern training. Chairperson Moeller received the leadership award for promoting the collaboration with university/institute to conduct applied research from AT&T governmental technology for special districts. Dr. Rui-De Xue received the medal of honor award from the American Mosquito Control Association. Mr. Richard Weaver continues as the elected FMCA Vice President and Dr. Rui-De Xue as the elected AMCA Vice President.



Committee Members 2022

SAFETY COMMITTEE

Business Mgr. (Safety Coordinator)	Richard Weaver (Chair)
Operations Mgr.	Mrs. Marcia Kay Gaines
Supervisor	Mrs. Dena Oliva
A&P Aircraft Mechanic	Mr. Ralph Bruner
Biological Technician	Mr. Steven Smoleroff
MC, Technician Surveillance	Mr. Morgan Duett
IT Technician	Mr. Rick Stockley
Mechanic	Mr. Freddie Allen

APPLIED RESEARCH COMMITTEE

Commissioner	Mrs. Jeanne Moeller (Chair)
Entomologist/Scientific Mgr.	Dr. Whitney Qualls
Field Biologist	Dr. Muhammad Farooq
Molecular Entomologist	Dr. Steve Peper
Biologist	Dr. Vindhya Aryaprema
Biological Technician	Mr. Kai Blore
Biological Technician	Ms. Heather Ward

EDUCATION COMMITTEE

Commissioner	Mrs. Trish Becker (Chair)
Education Specialist	Ms. Taylor Ballantyne
Entomologist/Scientific Mgr.	Dr. Whitney Qualls
Supervisor	Mrs. Dena Oliva
Biological Technician	Ms. Heather Ward
Biological Technician	Mr. Kai Blore

PLANNING COMMITTEE

Commissioner	Mrs. Gina LeBlanc (Chair)
Director	Dr. Rui-De Xue
Operations Mgr.	Mrs. Kay Gaines
Business Mgr.	Mr. Richard Weaver
Supervisor	Mrs. Dena Oliva
Biological Technician	Mr. Kai Blore
Entomologist/Scientific Mgr.	Dr. Whitney Qualls

FINANCIAL/AUDIT COMMITTEE

Commissioner	Mrs. Gayle Gardner (Chair)
Director	Dr. Rui-De Xue
C.F.O./Accountant	Mr. Scott Hanna
Business Mgr.	Mr. Richard Weaver
Operations Mgr.	Mrs. Marcia Kay Gaines
Accountant	Mrs. Aye McKinney

EMERGENCY RESPONSE COMMITTEE

Operations Mgr.	Mrs. Marcia Kay Gaines (Chair)
Entomologist/Scientific Mgr.	Dr. Whitney Qualls
Field Biologist	Mrs. Dena Oliva
Business Manager	Mr. Richard Weaver
Accountant	Mrs. Aye McKinney
Education Specialist	Ms. Taylor Ballantyne

OPERATIONAL COMMITTEE GROUND/AERIAL

Commissioner	Mrs. Catherine Brandhorst (Chair)
Director	Dr. Rui-De Xue
Aviation Mgr.	Mr. Dana Smith
Field Biologist	Dr. Muhammad farooq
Operations Mgr.	Mrs. Marcia Kay Gaines
Business Mgr.	Mr. Richard Weaver
Supervisor	Mrs. Dena Oliva
Entomologist/Scientific Mgr.	Dr. Whitney Qualls



Program Overview

AMCD Mission, Values, Vision, and Programs

- Our Mission:** To protect all people from the nuisance of mosquitoes and mosquito-borne diseases in St. Johns County, Florida.
- Our Values:** Service Driven, Scientific Based, Professional, Justified, Environmentally-friendly, Collaborative, Compassionate, Accountable, and Sustainable Excellence.
- Our Vision:** AMCD of St. Johns County will be among the healthiest in the Nation — a well-served community, enjoyed by all and supported by all partners.
- Our Programs:** Customer Service, Operations (including Surveillance and Control by Ground and Aerial Application), Education, and Applied Research.



- FMCA Fly In Class (January 2022)
- FMCA DODD Short Courses (February 2022)
- AMCA Annual Meeting (Feb. 28 - Mar. 4, 2022)
- FMCA Tallahassee Legislative Days (March 2022)
- AMCA DC Legislation Meeting (May 17-18, 2022)
- FMCA Annual Meeting, Palm Coast FL. (Nov. 14-16, 2022)

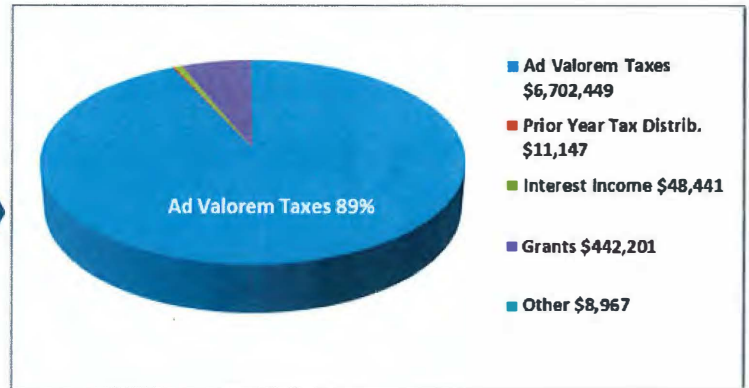
On December 8, 2022 AMCD hosted the dedication of the Education Center. The Education Center Building is projected to be completed Spring 2023.

As we have done since 1949, AMCD has continued to provide many services to the citizens of St. Johns County. These services included but were not limited to: mosquito inspections, population and arbovirus surveillance, public outreach and education, the assistances of local organizations, larviciding, adulticiding, applied research and evaluations of new control tools and techniques, and employee training.

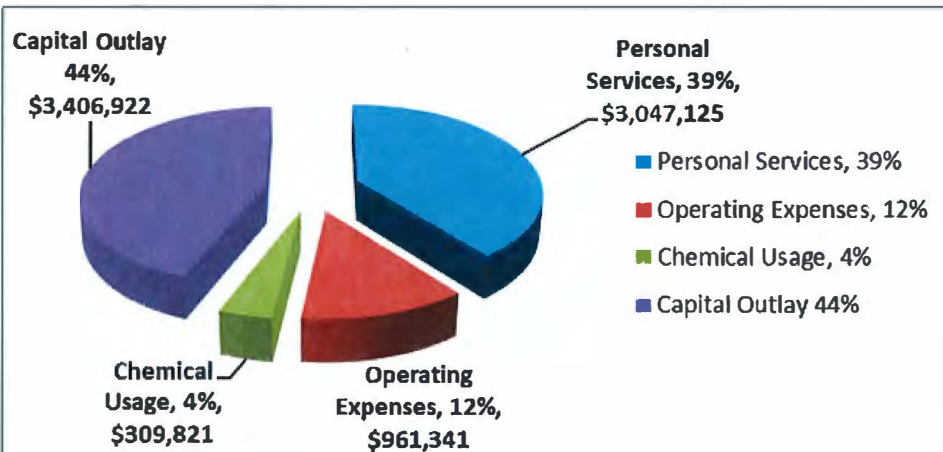


FY 21/22 District Revenues Oct. 1, 2021 through Sept.30, 2022 Total \$7,213,205. Millage Rate: 0.2000

- Ad Valorem (real property) Current Year Taxes, the primary source of revenue, \$6,702,449 comprised of, approximately, 89% of the total Revenues, \$7,213,205.
- Grant Revenues, from Applied Research, totaling \$442,201.
- Interest Income- Return on Investment, SBA Fund, non-current Operating Funds, yielded \$48,441.
- Other Revenues, were predominantly comprised of \$1,553 Surplus Sales, \$6,427 Workshop and \$986 for Dorm Rents.
- The District's millage rate for the General Operating Budget was 0.2000 for the year.



FY 21/22 District Expenditures Total \$7,725,210



The majority were attributed to Personal Services (39%) with Capital Outlay, Operating Expenses, and Chemical Usage comprising 44%, 12%, and 4%, respectively.

Administration and Supply

Board Business:

The AMCD staff provided many documents to Board members, the Board's attorney and for Committee meetings in 2022. The District hosted 13 Board meetings, including the annual First and Final Public Hearings, in September for the 2022/2023 fiscal year budget and millage rate.

Administration & Finance:

The Board approved a Lab Manager, Senior Mechanic and revised Operations Manager to Assistant Director. On July 14, 2022 the Board discussed and approved DACS Work Plan Budget for FY 22/23.

Policies:

On May 5, 2022 the Board approved the Pay Plan Policy revision and increased the amount of manpower. On June 16, 2022 the Board approved Jackie Small to audit AMCD Employee Handbook, District Policy and Procedures and Commissioner Handbook. Due to hurricane Ian this has been delayed. On June 16, 2022 the Board approved the revision of Policy for Commissioners Participation in Meetings via Communication Media Technology. On August 11, 2022 the Board approved the District Director the authority to sign Material Transfer Agreement, Non-disclosure Agreement, Arthropod Control Plan, and Intelligent Property Agreement.

Inventory:

The monthly tire inventory and chemical inventory were completed as required. The annual physical inventory was approved at the September 15, 2022 Board meeting. AMCD had no surplus items in the year 2022.

Contracts:

The Board awarded/signed the final contract with Harrell Construction for building the SIT mass rearing facility in June 2022. On February 10, 2022 the Board approved the collaboration with three organizations (CDC, NACCHO, Fujian Agriculture and Forest University). On March 10, 2022 the Board approved the agreement between MosquitoMate and AMCD for software usage. On April 14, 2022 the MOU between AMCD and i2L company about sharing GLP data was approved. On May 5, 2022 the NDA with Scenico about SIT equipment was approved. On June 16, 2022 the Board approved the collaboration with University of Wisconsin to submit NIH Education Grant. On July 14, 2022 the Board approved the renewal of Arthropod Management Plan for Anastasia State Park. On August 11, 2022 the Board approved the lawyer's contract with a \$250 increase due to inflation. On June 16, 2022 the Board approved the renewal of the auditor contract FY 22 /23. The Board renewed the Cintas Uniform Contract on October 13, 2022

RFPs & BIDs:

January 13, 2022 the Board approved the purchase of the Irradiator Machine for SIT building. June 16, 2022 the Board approved the Bid for Aircraft Engine Compressor Overhaul.

Insurances:

The Board approved the helicopter insurance renewal on July 14, 2022. Renewal of the Fleet/Liability and Workers Compensation Ins. with Thompson Baker Ins. Co., and the Health, Dental, and Life Insurance for the calendar year 2023.

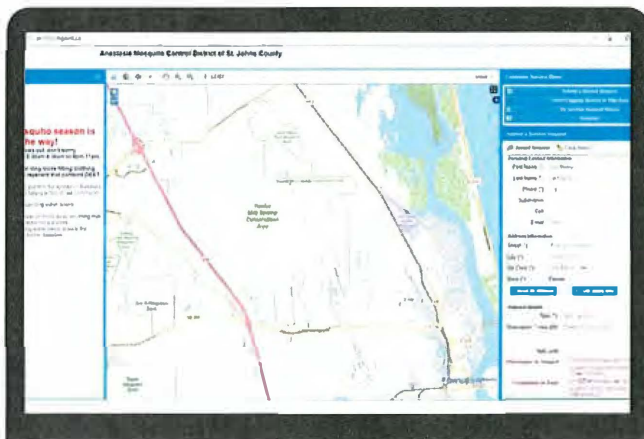
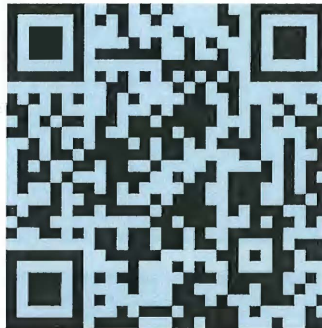


Customer Service

AMCD Website:

AMCD's website: www.amcdsjc.org is an important tool for providing information to the public, other mosquito control districts, and staff. The site contains important information including public notices, meeting dates, mosquito-borne disease advisories, training opportunities, education, and employment opportunities. One of the most important links on the AMCD website is the service request button. At this link, St. Johns County citizens can enter requests for service. This service request is linked to the District's database, Geomosquito, and immediately notifies the AMCD technicians in the field that a request for service has been requested. This page on the website will also allow customers to access and review the status of a service request and see if there is any adulticide (fogging) scheduled in their area. AMCD also keeps the public engaged using social media and has a presence on Facebook, Twitter, and Instagram. AMCD has also developed a free app (EMS) to enter service requests, to check for adulticiding, and the ability to get important notifications from the District. This free app is available for iPhone and Android phone users.

Scan QR code to
access AMCD's
website



AMCD responded to 4,364 service requests in 2022. The average response time for a service request was 1.4 days. Service requests were received by the District office via phone, email, website, and phone app with more than 75% of service requests coming in through the phone app and web interface.

AMCD staff continued conducting detailed tours of the AMCD facility and research buildings to members of the public, local and state officials, members of the education system, and other government agencies especially other mosquito control districts.

AMCD continued to provide service and to educate St. Johns County residents on many things such as adult and larval mosquitoes, adulticiding, and larviciding. The AMCD staff also dispensed valuable information pertaining to the identification of mosquitoes, pesticide safety, other insects, mosquito prevention and pesticide applications, personal protection methods, as well as commercial mosquito traps, repellents, insecticides, and assisting residents with concerns about no spray treatment areas, including bee-keepers' properties or personal/health conditions that require no treatments be made.

AMCD strictly adheres to the Florida Statutes, Chapter 388, and 5E-13 of the Florida Administrative Code. The District also follows all Florida Department of Agriculture and Consumer Services and Environmental Protection Agency rules. Labels and Safety Data Sheet instructions are closely followed, as well as, the District's own policies and procedures. AMCD is committed to public safety while providing the important public service of larviciding, and adulticiding in order to reduce the spread of vector disease, and nuisance mosquitoes.

Cooperative Organizations/Professional Services

AMCD works in cooperation with a number of related local-, state-, federal- agencies, international-, private-, commercial organizations, and members of the medical community. Those listed below briefly describe the work associations with AMCD in 2022 to prevent and control vector-borne diseases in Florida.

International Cooperation and Activities:

The collaboration with Dr. G. Muller, the University of Science, Techniques, and Technology of Bamako, Mali working on Attractive Toxic Sugar Baits (ATSB) and natural repellents against vector mosquitoes was continued.

The collaboration with Dr. TY. Zhao, Beijing Institute of Microbiology and Epidemiology to continue working on integrated mosquito management for malaria vector mosquito control.

AMCD hosted 12 visitors from Pan African Mosquito Control Association and VectorBite from UK to discuss possible collaboration and training in late Feb.

AMCD hosted 3 officers visiting from the IVCC about AMCD facility and possible collaboration for larvicide evaluation in late Feb.

Dr. RD. Xue continues to serve the World Mosquito Control Association as their Executive Director until March 2022 and Asian SOVEMC until present.

Dr. RD. Xue continues to collaborate with three Scientists from the Collaboration in Sciences and Technology (COST), Europe Commission for research and development of nanotechnology and treated textiles and spatial repellents against mosquitoes, and AMCD's database analysis.

Dr. RD. Xue organized a symposium for the International Congress of Entomology, Finland, later July and gave a presentation about the challenge and management of container-inhabiting mosquitoes.

Dr. W. Qualls, Dr. S. Peper, Dr. RD. Xue, and Commissioner Mrs. J. Moeller attended the 8th International Congress of SOVE, Hawaii, late September. All Scientists gave their presentations at the meeting.

Dr. RD. Xue was invited and funded by the PMR company to visit the Torch Island, Bahama for salt marsh mosquito control in middle of September.

Dr. RD. Xue attended the 2nd Latin SOVE meeting and gave a presentation about overview of AMCD program, La Plata, Argentina, late October. Visited National University of La Plata's Center for Parasitology and Vector Control and gave a seminar about applied research at the National Institute of Technology's Center for Insecticides and Pest Control during the meeting.



Cooperative Organizations/Professional Services (Cont'd)

State Agencies and Services:

Florida Department of Environmental Protection:

AMCD continued the collaboration with state parks, University of Florida, and environmental education centers for salt marsh management in Fish Island. Arthropod control agreement for Conch Island. Florida Department of Agriculture and Consumer Service: AMCD continued to renew the non-funded MOU and collaborated for annual inspection. AMCD hosted the FCCMC meeting in middle January. Dr. W. Qualls continues to serve as the DACS/FCCMC's research review subcommittee member.

Florida Department of Health: AMCD continues to collaborate with DOH to surveillance of arbovirus and mosquito-borne diseases and conduct news release.

Florida Mosquito Control Association: AMCD is a governmental member of the FMCA. AMCD hosted the FMCA Fly In class in middle of January. Mr. R. Weaver continues to serve as the FMCA financial member and was elected as the President-Elect. Dr. RD. Xue serves as the FMCA's Publication Committee Chair, Editor of the JFMCA., Chair of the FMCA Exchange program committee, and on the By-law's committee.

Dr. W. Qualls serves as the FMCA Scholarship Committee Chair and as the Dodd short course committee member, and legislation committee member.

Commissioner Mrs. T. Becker serves as the FMCA Commissioner section Vice Chair.

Dr. S. Peper serves as the Wing Beats Advertising Director and serves on the FCCMC Imperiled Species committee.

Florida Entomology Society: Dr. RD. Xue continues to serve the nomination committee for the FES. Dr. W. Qualls, Dr. Xue, and Mr. K. Blore attended the FES annual meeting and Dr. Xue and Mr. Blore gave presentations in middle of June.



National and Federal Agencies & Associations:

USDA/ARS: The collaboration with several scientists at USDA/CMAVE has organized the 17th annual workshop and SIT for control of *Aedes aegypti* and other studies was continued. The collaboration with Dr. Jerry Zhu for natural repellent evaluation was continued. DoD/NECE: The collaboration with the DoD's NECE, Jacksonville, FL to evaluate ULV spray systems and new formulations of insecticides were continued and started tick population surveillance. DoD/AFPMB: for control action threshold grant has been done for the 2nd year. **CDC:** Collaboration grant with UF about developing a smart cage was completed in December 2022. A small collaboration grant about aerial spraying efficacy of naled has been conducted twice and continued in 2022. **CDC/SECEVD:** AMCD continued their collaboration with the CDC Southeastern Center for Excellence in Vector-borne Disease (SECEVD) for training intern students. **American Mosquito Control Association (AMCA):** AMCD is a sustaining member of the AMCA and an AMCA/EPA PESP legislation committee member. Dr. RD Xue was elected as the AMCA's President-Elect. Dr. W. Qualls serves as Chair for Publication Committee. Dr. S. Peper serves as AMCA's member training committee member. AMCD staff were volunteers to assist the AMCA annual meeting in Jacksonville, FL in last week of Feb. AMCD staff organized 2 symposia for AMCA annual meeting. Commissioner T. Becker and Mr. R. Weaver attended AMCA D.C. legislation meeting in middle of May. Drs. Peper, Qualls, Xue, and M. Farooq reviewed more than 20 manuscripts for the JAMCA and other Journals. Society of Vector Ecology (SOVE): Dr. RD. Xue continues to serve the SOVE Board as the Regional Director. Dr. Xue, Dr. Qualls, Dr. Peper, and Mrs. Moeller attended the 8th International Congress of SOVE. Several Scientists reviewed several manuscripts for Journal of Vector Ecology. **Entomological Society of America (ESA):** AMCD's Scientists reviewed numerous numbers of manuscripts for the ESA's Journals and other Journals, such as, Acta Tropic, PLoS one, Parasite & Vectors, Insects, and others at their editors' requests. Dr. Xue as the ESA vector working group member and attended their quarterly zoom meetings and Dr. W. Qualls gave presentations about AMCD intern training program. AMCD has been awarded by the ESA for intern training site. **National Association of City and County Health Office (NACCHO):** Dr. RD. Xue as the Vector Control working committee member of the NACCHO attended and gave update report at their quarter virtual meeting. Dr. W. Qualls and Mr. R. Weaver gave presentation about AMCD education center and applied research.

Cooperative Organizations/Professional Services (Cont'd)

Companies And Other Districts:

AMCD collaborated with several local mosquito control programs in the northeast region to share mosquito and mosquito-borne disease information. AMCD demonstrated and provided the blueprint of our complex to several districts and programs nationwide. AMCD collaborated with Lee CMCD to apply for CDC grant and to train pilots and helicopter mechanics. AMCD collaborated with Central Life Sciences on larvicide, and adulticide product evaluations. AMCD collaborated with DNW Global LLC on new larvicide evaluations. AMCD collaborated with MosquitoMate on a SIT/*Wolbachia* project. AMCD collaborated with New Mountains about new trap evaluations and Chironomid midge. AMCD collaborated with One-derings LLC for repellent doses and new formulation. AMCD continued to collaborate with Lamplight Farms Incorporated to evaluate and develop spatial repellent device. AMCD continued to collaborate with MGK and Sumitomo to evaluate/develop insect repellent and insecticides. AMCD signed material transfer agreement with Syngenta Crop Protection LLC to evaluate/develop new formulation of insecticides.

Agencies and Universities:

University of Florida: AMCD cooperated with the University of Florida Department of Entomology and Nematology with Dr. D Hahn on the SIT project. AMCD collaborated with **UF, Department of Electrical Engineering** with Dr. W. Eisenstadt on the CDC grant for developing a smart cage. AMCD collaborated with UF, Dr. R. Dinglasan at EPI for intern training. AMCD collaborated with **UF, Department of Entomology and Nematology** with Dr. Koehler, and Dr. Baldwin for a non-target study and nanoparticles of adulticides (DACS grant) and to train Ph.D. student Mr. Blore. Dr. Xue continues serving the UF/Department of Entomology's Courtesy Faculty member to train students. **University of Miami:** Dr. Xue serves as a voluntary professor for the University of Miami School of Medicine and continues to collaborate with Dr. John Beier for ATSB and biology and control of mosquitoes. **University of North Florida:** AMCD renewed the contract with the University of North Florida's College of Public Health for training intern students. Dr. W. Qualls taught a class at UNF Department of Biology. AMCD provided many mosquito samples for several universities nationwide.

Local Agencies and Service:

County DOH: Conduct mosquito-borne disease surveillance, open house, and public education.

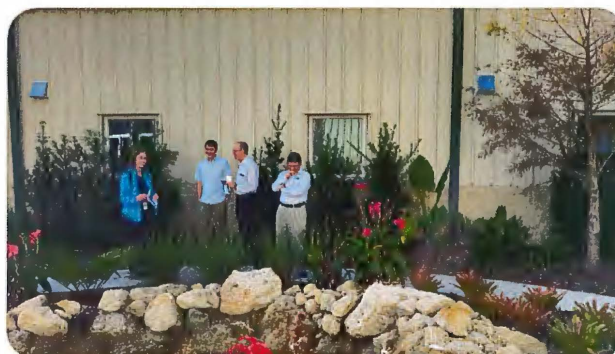
School Board: Teach class for mosquito control. Train intern students (4 per year) for P.V. High School. Received a partnership award from St. Johns County School Board in October.

County EOC: Attended the county emergency response and hosted their staff and team members at AMCD facility during hurricane responses. Used AMCD's helicopter to check damage assessments.

County Fire Rescue: AMCD supported and collaborated with Department of Fire Rescue to use our helicopters to check damages of road and other property, and damage assessments during and after two hurricane responses.

County Agriculture: Collaborate to provide public education and jointing open house. **Park & Recreation:** AMCD hosted summer camps students with a tour.

Kiwanis: Dr. RD. Xue has been Kiwanis member since 2006 and update and collect response about mosquito problem from community and provided many voluntary service and donations for kids annually. **Rotary:** AMCD staff and Commissioners gave presentations and conduct public education about AMCD's program and mosquito-borne diseases. **Round Table:** AMCD staff and Commissioners gave update about AMCD program and conduct public education annually. **Others:** AMCD staff and Board of Commissioners also attended many other local community meetings, club meetings, and different events, to conduct public education for prevention and control of mosquitoes and mosquito-borne diseases.



Surveillance

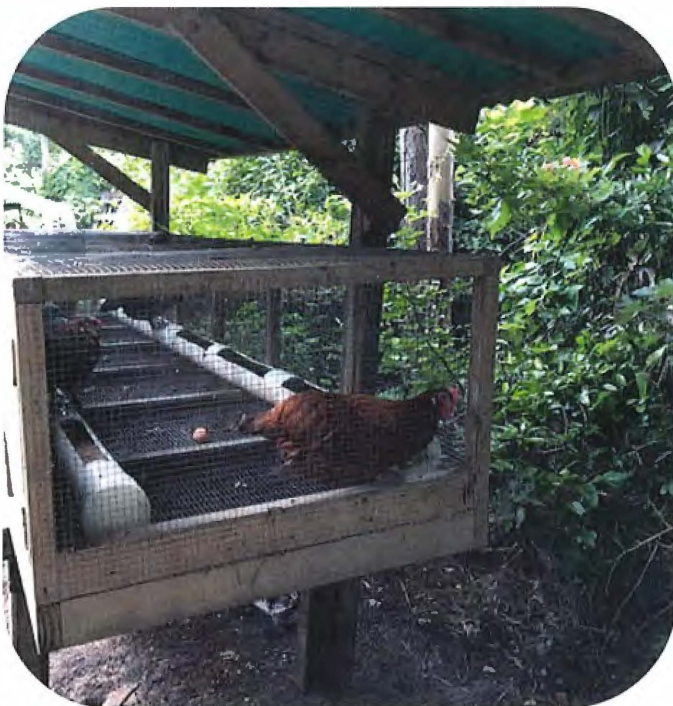
Mosquito-borne Diseases:

AMCD continuously cooperates with the Florida Department of Health to monitor imported mosquito-borne diseases through local health providers.

Through the Florida Department of Health Laboratory and in-house capabilities, AMCD monitored West Nile Virus (WNV), Eastern Equine Encephalitis Virus (EEEV), Saint Louis Encephalitis Virus (SLEV), Highland James Virus (HJV), and California Group Virus, using nine sentinel chicken sites around St. Johns County. AMCD personnel bled chickens once a week for testing from April through November.

In 2022, a total of 16 sentinel chickens tested positive for arboviruses, 9 for WNV, 1 for SLEV, and 6 for WNV/SLEV. In 2022, there were cases of travel related Dengue and malaria in St. Johns County. In 2022, there was one positive WNV human case and one EEE horse death.

In 2022, AMCD responded to 4,364 service requests in St. Johns County.



Mosquito Population:

The adult mosquito population was monitored by 41 CDC light traps baited with Octenol from April to November, 2022 and a total of 14,156 mosquitoes, 28 species were collected. Twelve BG Sentinel traps (Fig. 1) baited with BG Lure and CO2 were used for *Aedes albopictus* and *Aedes aegypti* surveillance for a total of 7,506 collected from January to December, 2022. A total of 49,022 mosquitoes, 32 species were collected from BG trapping. A total of 63,178 mosquitoes were trapped by both methods.

Larval surveys were conducted on a daily basis by dipping flooded areas as needed. A total of 20,042 dips were conducted and 1,933 dips were positive with 19,827 larvae found.

Environmental Parameters:

The total average monthly rain fall for St. Johns County in 2022 was 4.24 inches with a total of 51.62 inches for the year per the St. Johns River and Water Management Districts Hydrologic Charts.



Surveillance (Cont'd)

Number of Mosquitoes Collected in BG Surveillance 2022

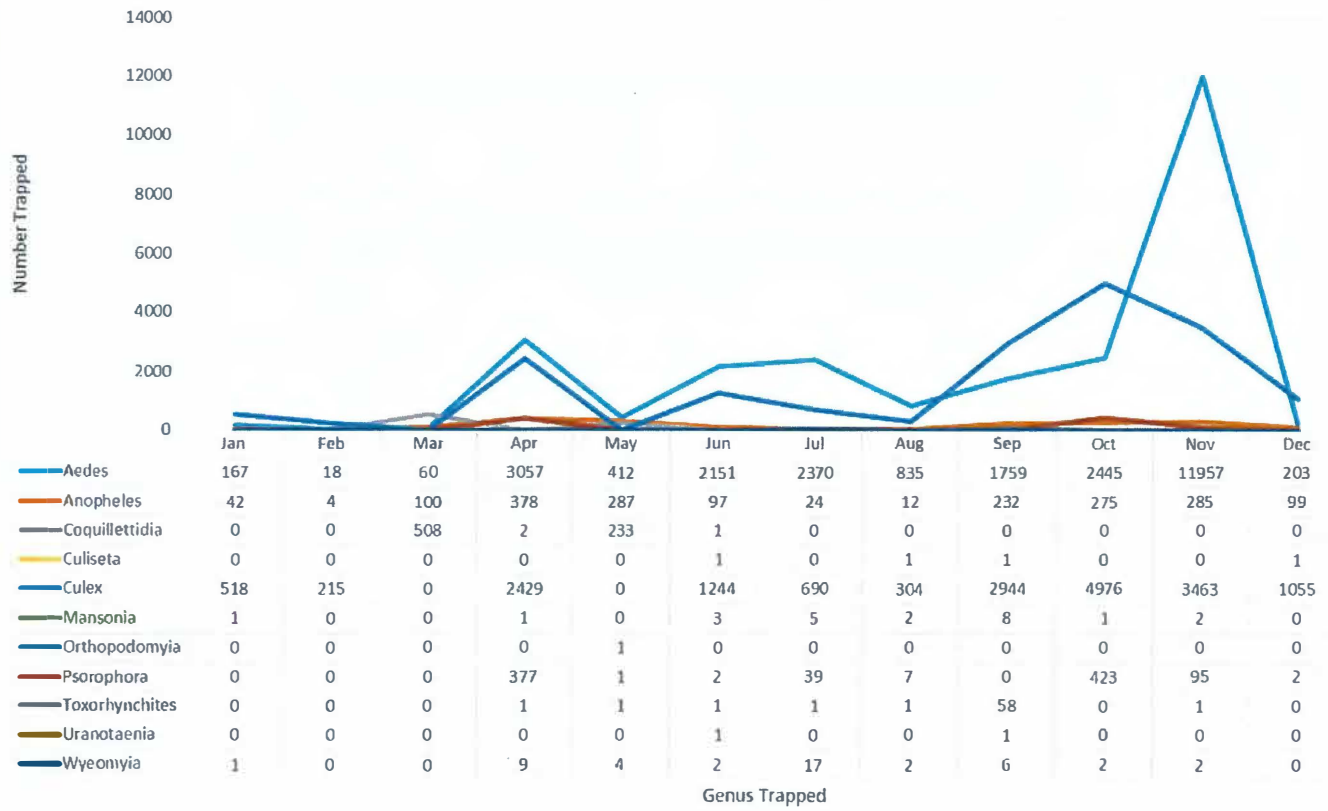


Figure 1. Total mosquitoes collected throughout 2022 by month and genus in BG-Sentinel Traps



Surveillance (Cont'd)

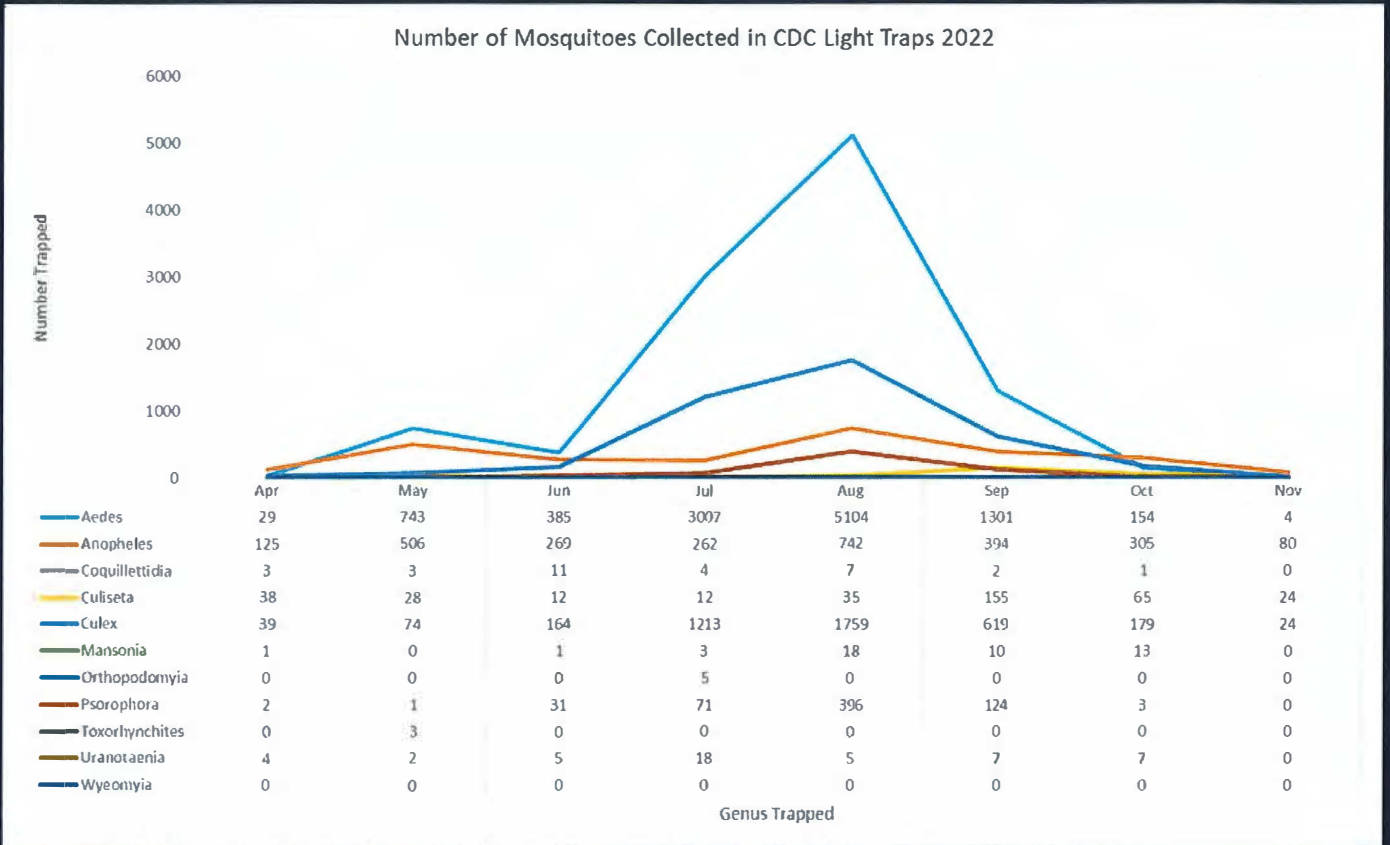


Figure. 2 Total mosquitoes collected throughout 2022 by month and genus in CDC Light Traps



Surveillance (Cont'd)

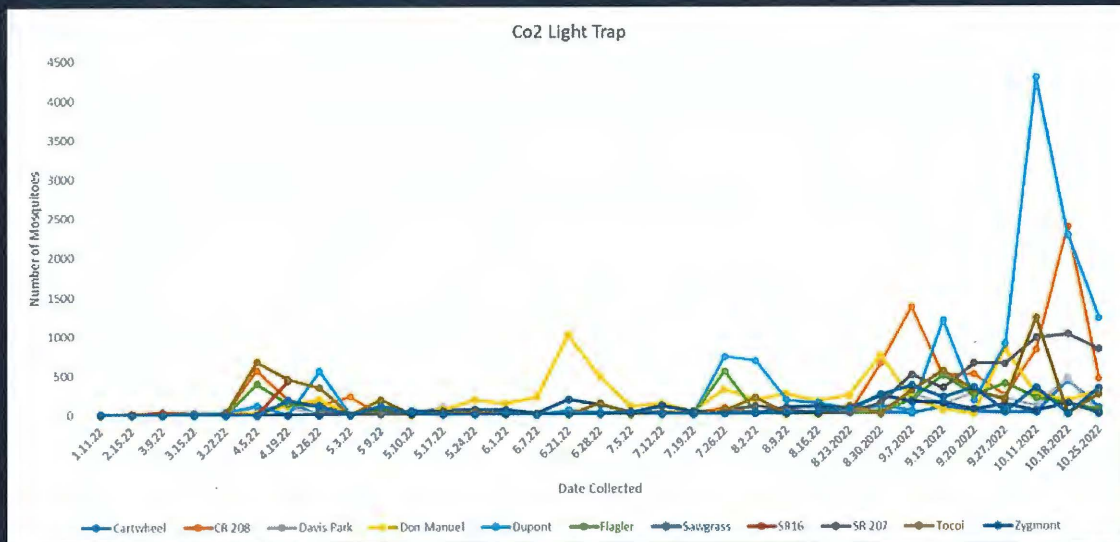


Figure. 3 Total number of mosquitoes collected in 2022 Arbovirus Surveillance Co2 Traps

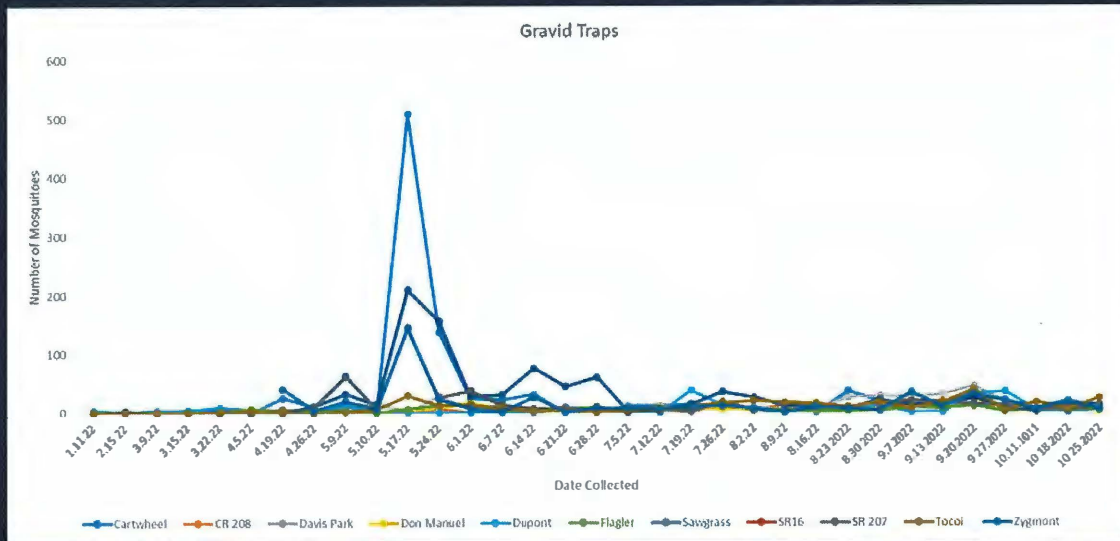


Figure. Total number of mosquitoes collected in 2022 Arbovirus Surveillance Gravid Traps



Operational Control

Larvicides and Larviciding:

In 2022, the District primarily used *Bacillus thuringiensis israelensis* to kill mosquito larvae, as well as methoprene products in areas where BTI was not applicable. Mosquito Control Technicians treated 1,081 times for a total of 4,117.25 acres. The aerial program made 81 applications for a total of 1,596 acres treated.

Adulticides and Adulticiding:

Mosquito Control Technicians continued to use Aqualure 20-20 (Permethrin) and Mosquitomist Two (Chlorpyrifos phosphorothioate) for ground ULV spraying and treated 153 times on a total of 118,254.29 acres for adult mosquito control. DUET was used in the hand thermal foggers to handle service requests and other areas 94 times for a total of 24,305.71 acres. Talstar P was used as an adult mosquito control barrier treatment in parks, special areas, and for service requests a total of 204 times equaling 136.85 acres. The Aviation team had 26 missions, and treated a total of 139,004.61 acres, by air with Dibrom.



Larvicides and Adulticides Used in 2022

Larvicides	Amount Used		Area Treated		Times applied
Altosid WSP	17,038	ea	52.8	acre	255
Altosid XR	627	ea	1.42	acre	39
Altosid XRG	1040	lb	173.33	acre	25
Altosid XRG (air)	14,360	lb	1,436	acre	77
BTI Briquets	3500	ea	8.04	acre	119
Cocobear	3,088	fl oz	8.04	acre	78
Natular DT	66	ea	0.01	acre	5
Sustain MBG	5,150	lb	686.67	acre	117
Sustain MBG (air)	1600	lb	160	acre	4
VectoBac 12AS	7,216	fl oz	451	acre	95
Adulticides	Amount used		Area Treated		Times applied
Aqualure 20-20	14,040.83	fl oz	54,351.42	acre	76
Dibrom (air)	97,280	fl oz	139,004.61	acre	26
Duet 50%	38,160	fl oz	24,305.71	acre	94
Mosquitomist Two	42,880	fl oz	63,902.87	acre	77
Talstar P	46.14	gal	136.85	acre	204

Source Reduction & Biological Control:

A total of 94 used tires were collected and removed throughout the year by AMCD staff and personnel as a means of source reduction.

Empty containers in-and-around residential yards were emptied numerous times when AMCD staff and personnel performed their inspections.

AMCD provided the public with the mosquito larval eating fish (*Gambusia*) for use in retention ponds and ditches 17 times for a total of 184 fish provided.

Applied Research

Arbovirus Detection Techniques & Influencing Factors:

AMCD continuously cooperates with the Florida Department of Health (FDOH) to monitor imported mosquito-borne diseases through local health providers.

Through the FDOH Laboratory and in-house capabilities, AMCD monitored West Nile Virus (WNV), Eastern Equine Encephalitis Virus (EEEV), Saint Louis Encephalitis Virus (SLEV), Highland J Virus (HJV), and California Group Virus, using 9 sentinel chicken sites around St. Johns County. AMCD personnel bled chickens once a week for testing from April through November.

In 2022, 25 sentinel chickens tested positive for WNV antibodies via our in-house surveillance efforts. All 9 sentinel site had at least 1 positive bird during the season. The state reported 30 presumptive positive sentinel chickens, of which 21 were later confirmed positive for WNV and 3 were confirmed positive for SLEV. No sentinel chickens tested positive for EEEV through state laboratory testing in 2022.

One mosquito pool tested positive in 2022 for WNV.

Good Laboratory Practices (GLP) /DNW Study:

In 2022 we completed the second part of our GLP sponsored project, which included a semi-field evaluation of a novel larvicide. This larvicide was evaluated against 3 larval mosquito species at varying concentration. Results were reported to the sponsor who then had the opportunity to submit our findings to the US Environmental Protection Agency for product registration.



Study funded by the Deployed War Fighter Protection program (DWFP) of the Department of Defense (DoD)

Funded by the DWFP/DoD, AMCD is investigating "Establishing evidence-based action thresholds for *Aedes*, *Culex*, and *Anopheles* mosquito abundance in different operational environments ". Following the work completed in 2022, AMCD continued in-person/over the phone/zoom interviews with the personnel from selected U.S. mosquito control programs to identify in-depth information on establishing action thresholds. We improved our statistical models on action thresholds for different mosquito groups using AMCD historical mosquito abundance data and associated meteorological data and validated those models with real time surveillance data .

Water quality parameters influencing *Aedes* container species distribution in Saint Johns County, FL

Upon the field observations of the distribution of *Aedes aegypti* in St. Johns County (SJC), Florida is restricted to the coastal areas of the county, we started a study to investigate the water quality parameters influencing the distribution of container breeding *Aedes* in SJC.

The field study conducted along three transects from the coast to the St. Johns River identified a positive correlation of the breeding water salinity level with *Ae. aegypti* numbers and a negative correlation with *Ae. albopictus* numbers. The subsequent laboratory study confirmed only the correlation with *Ae. albopictus*, but warranted further studies to characterize other influential environmental and/or sociological factors of *Ae. aegypti* distribution.

Applied Research (Cont'd)

AMCD Insectary 2022

At AMCD, we rear several mosquito species for experimental use in our research and education projects. These include insecticide susceptible lab colonies for the following species: *Aedes aegypti*, *Aedes albopictus*, *Anopheles quadrimaculatus* and *Culex quinquefasciatus*. This year, we are also in the process of attempting to start up a new colony of *Toxorhynchites r. rutilus* for use in our educational program. These mosquitoes are considered a beneficial species because they are non-biting and are predaceous against other mosquitoes in their larval state. All mosquitoes are reared on-site at AMCD's facility in our temperature and humidity-controlled insectaries. In addition to our lab colonies, AMCD insectaries are frequently used to rear field-collected mosquitoes from around St. Johns County. Both field-collected and lab colony mosquitoes are necessary when testing insecticides as comparing mortality between the two can determine if there is insecticide resistance within the local mosquito population.

Evaluation of Smart Bio-Assay for Efficacy of Mosquito Control Adulticides

A smart cage has been developed with CDC grant in collaboration with Dr. W. Eisenstadt, University of Florida (UF), Department of Electrical Engineering to measure spray at the evaluation site. During the second year of this grant, the cages were evaluated at AMCD in different phases. In the first phase, communication between cages while deployed in the test field and the laboratory was tested. In the second phase, each cage was sprayed with a backpack sprayer to ascertain that the smart cage sensor is receiving the droplets, the sensor is measuring the droplets and data is recorded inside the laboratory. The cages in the third phase were exposed to spray released by a truck mounted ULV sprayer in the same way as normal application is done. During this part, droplets near the smart cage were also collected on Teflon® coated slides and droplets characterized with DropVision system. The trend in dispersion of droplets throughout the field detected by the smart cage and slides was similar. Lastly, smart cage was exposed to a mixture of mineral oil and fluorescent dye sprayed through a truck mounted ULV sprayer. The spinners were also deployed to collect droplets for size characteristics using DropVision and for spray quantification with fluorimeter. The data for the last phase of evaluation is being processed by UF.



Evaluation of Contact and Spatial Repellents:

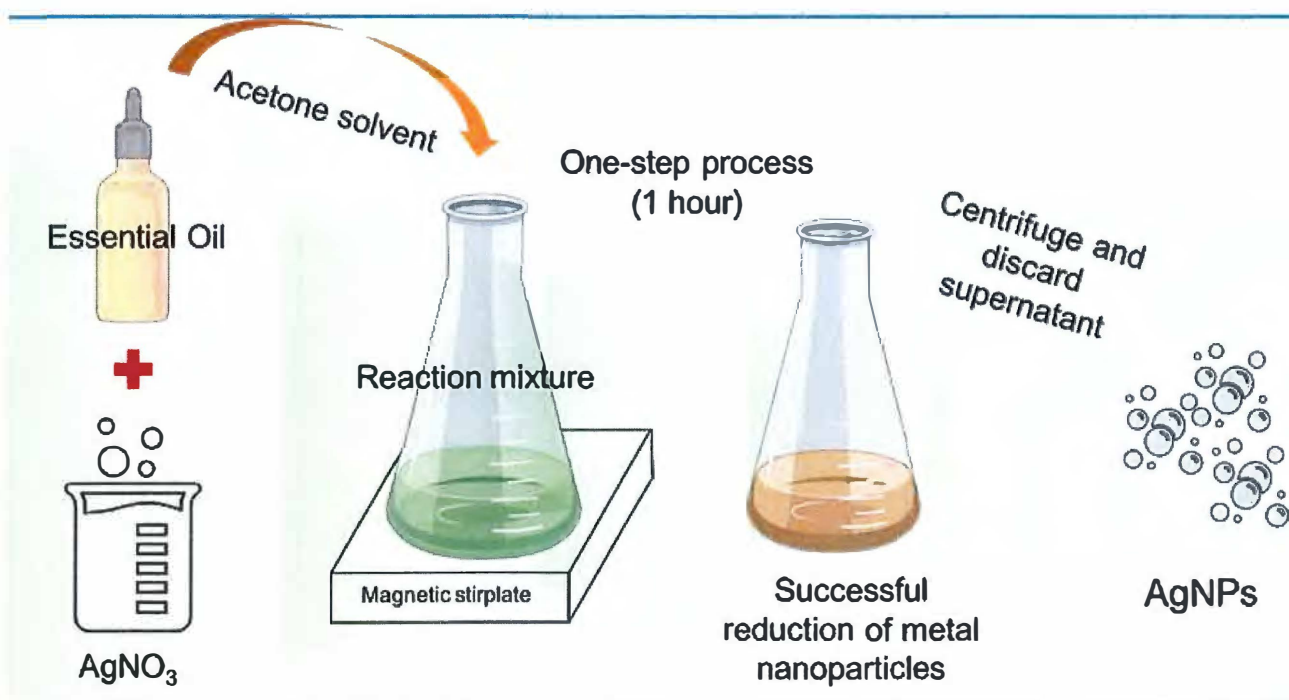
Five natural oils, Clove oil, Eucalyptus oil, Geraniol, Immortelle oil and Lemongrass oil were evaluated using the True Choice Olfactometer. BG Lure was used as an attractant. Overall, the Clove oil, Eucalyptus oil, Geraniol, Immortelle oil and Lemongrass oil had 65, 54, 63, 41, and 65% repellency, compared to 42% by BG lure. Individually, 62.5 μL of Lemongrass oil, 125 μL of Eucalyptus oil, 250 μL of Clove oil and Geraniol, and 500 μL of Immortelle oil had highest repellency.

Twelve new formulations containing medium-chain fatty acids, six each having decanoic acid (C10) and lauric acid (C12) derived from palm oil and coconut oil, provided by Onedrings Lavender Farm (OLF), Clarksville OH were evaluated in olfactometer for spatial repellency against *Aedes aegypti* mosquitoes. Among all decanoic acid formulations tested, the concentration of 2.25 %(wt) indicated the best level of spatial repellency. None of the lauric acid concentrations showed any level of spatial repellency.

Applied Research (Cont'd)

Evaluation of a nanoparticle encapsulated permethrin formulation against three species of adult mosquitoes: *Aedes aegypti*, *Culex quinquefasciatus* and *Anopheles quadrimaculatus* (a Ph.D. student project).

Insecticides remain an integral component of mosquito control operations but sustained usage of a limited number of active ingredients (AI) has led to the widespread development of resistance. New types of insecticides will be necessary in maintaining control efficacy, but developing and registering these can be prohibitively time consuming and expensive. This research conducted by AMCD aims to evaluate a novel metal nanoparticle as a potential insecticide which could positively impact Florida mosquito control operations by identifying new technologies for formulating insecticides. As part of this research, metal nanoparticles were synthesized from silver nitrate (AgNO_3) using essential oils from different plants. Essential oils were selected as the reducing agent because they contain many bioactive compounds and metabolites which have insecticidal properties of their own. The resultant nanoparticles were characterized by spectrophotometer analysis and then tested against mosquitoes via topical applications to see if they are toxic to mosquitoes. The goal of this ongoing research is to quantify the intrinsic toxicity of these metal nanoparticles against different mosquito species.



Applied Research (Cont'd)

Collaborative, Ongoing, and Completed

Applied Research Projects for 2022 (Cont'd):

Evaluation of the novel Sirenix Trap (New Mountain LLC/Herb Nyberg Sponsor)

Efficacy evaluation of GroPro Skeeter Larvicide (GroPro Sponsor)

Peak aerial adulticide application deposition (CDC sponsor)

Evaluation of larvicides (Central Life Science Sponsor)

Environmental factors influencing urban container breeding in St. Johns County (CDC/SECEVD's Internal project)

Insecticide resistance evaluation of urban container breeders in St. Johns County (Internal project)

Mosquito rearing quality assurance (MosquitoMate)

New formulation of insect repellent (One-derings LLC)

Novel insect repellent delivery system (Amy Hickcox sponsor)

New repellent evaluation (MGK/Sumitomo)

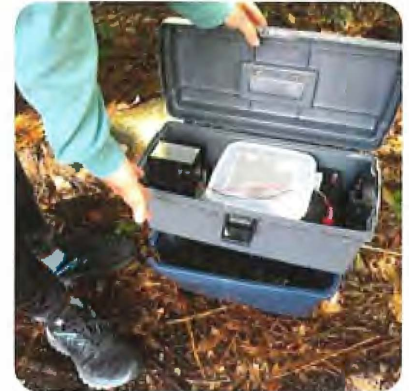
Semi-field evaluation of REXCU-S as a larvicide against three species of mosquitoes (DNW Global Sponsor)

Evaluation of aerial capabilities throughout the state of Florida (Internal project)

Evaluation of clot time on WNV-positive serum samples (Internal project)

Effectiveness of a commercial ELISA kit for detecting WNV antibodies in chicken serum samples (Internal project)

Field evaluation of Sirenix and CDC-AGO traps against container-inhabiting mosquitoes in St. Augustine (AMCD operation project)



Education Program

AMCD Education and training

Fifteen AMCD employees attended the FMCA Fly-In at AMCD in January 2022. Annual mandatory training was done in-house in February for full-time employees and again in May, and June for those that needed to make up any training and for new hires. Twenty-one AMCD employees and four Commissioners attended the in-person DODD Short Courses in February 2022. Nine employees, three commissioners, and seven volunteers attended the AMCA annual meeting in February 2022. All AMCD employees and three Commissioners attended AMCD's 17th Annual Workshop, March 29-31, 2022. In April 2022, Mr. Dana Smith, Mr. Ralph Bruner, Dr. M. Farooq, Mr. Mike Phillips, and Dr. Rui-De Xue attended the Lee County Mosquito Control Aerial Workshop. Two AMCD employees virtually attended the FCCMC meetings in May & September 2022. Dr. Xue attended the International Congress of Entomology in Finland July 2022. Dr. Qualls, Dr. Peper, Dr. Xue, and Commissioner Mrs. Moller attended the 8th International Congress of SOVE in Honolulu, HI September 2022.

Mr. Ralph Bruner, Mr. Jeremy Wohlforth, Kyle Arber, and Dazmond Hackney attended the Hazardous Materials Operations/OSHA Level II training in September 2022 and received a certificate of completion. Dr. Xue attended the 2nd Latin SOVE in Argentina November 2022. Seventeen AMCD employees attended the annual FMCA meeting in Palm Coast November 14-17, 2022.

Community Events/Public Outreach

AMCD was involved with: Cracker Day, National Night Out (Fig. 1), Ancient City Kids Day, High School Career Days, and St. Augustine Christmas Parade. AMCD was involved in the Meeting with the Academy of Coastal and Water Science Advisory Board. Dr. Qualls & Ms. Taylor Ballantyne gave a presentation about AMCD at a St. Johns Beekeeper meeting. Ms. Taylor Ballantyne was interviewed by local radio stations. The local newspaper and other papers /publications published about the AMCD education center & Dr. Xue's award from AMCA in March. AMCD held a dedication ceremony for the education center and gave tours of the new facility. Multiple tours were held at AMCD with different St. Johns schools and community clubs. AMCD was active on social media platforms: Instagram, Twitter, and Facebook.



Figure 1. National Night Out



Figure 4.

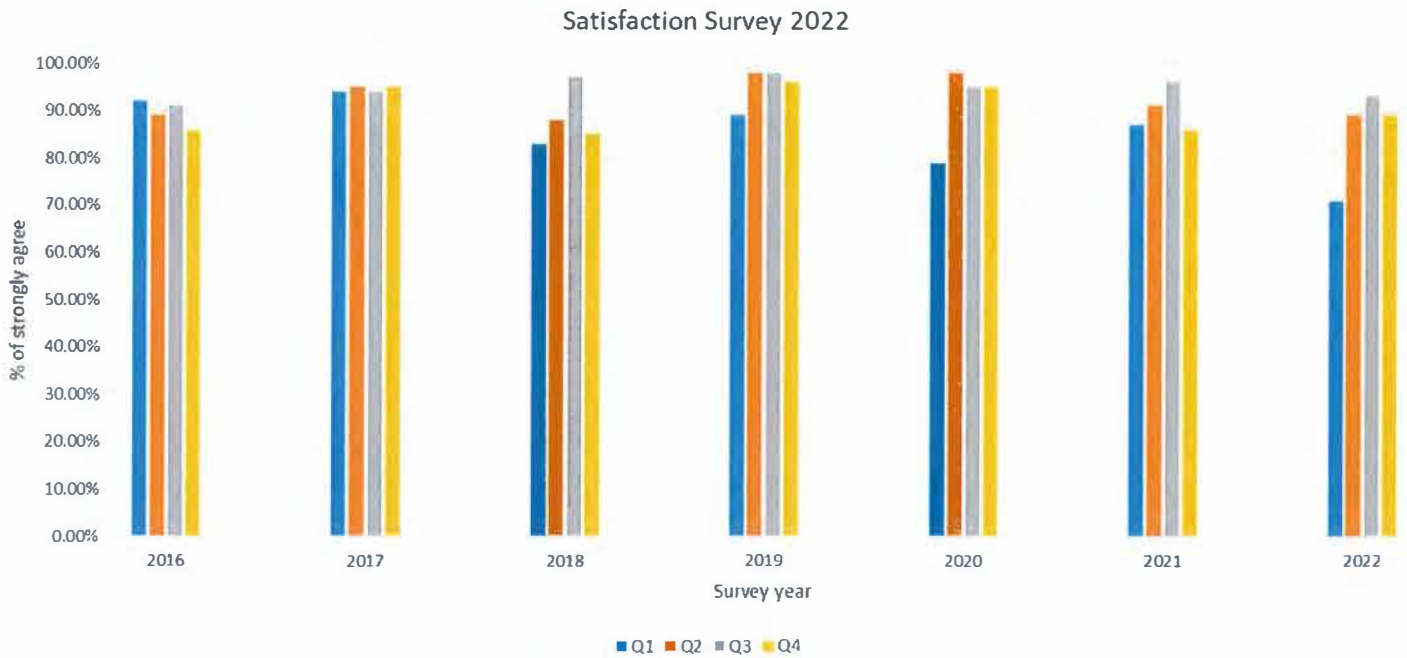


Figure 2.



Figure 3.

St. Johns County School Program In 2022, AMCD taught a BTI lab at St. Johns Technical High, three first grade classes with St. Johns Virtual School on the mosquito life cycle, a class about insects at Island Prep Elementary School, and ten 1st grade classes at Ponte Vedra/ Palm Valley Elementary School on the mosquito life cycle. (Figures 2-4). Mr. Dana Smith Served for St. Augustine High School Aerial Academy, Dr. Xue, Dr. Qualls, and Dr. Peper serve the P.V. High School academy Board and trained intern students for them. AMCD received the business partnership award. Dr. Peper & AMCD received 2 grant awards to train High school students from ESA



Satisfaction survey questions

Q1- I am aware of and actively participate in the DRAIN and COVER method: Drain standing water and cover your skin with clothing and repellent.

- The % of people surveyed who responded "strongly agree" has decreased since 2016

Q2- The AMCD staff were professional.

- The % of people surveyed who responded "strongly agree" was in line with previous years.

Q3- AMCD responds to my service requests within the standard 1-2 business days.

- The % of people surveyed who responded "strongly agree" has increased since 2016

Q4- The AMCD staff were informative.

- The number of people who respond "strongly agree" has increased since 2016

Professional Meetings, Symposiums, & Workshops

Organized and Attended by AMCD Staff and Commissioners

January 10-13. AMCD 1st time hosted the FMCA fly in class and military aerial training workshop. Nine staff from AMCD attended the meeting. Dr. Qualls gave a presentation.

January 11. AMCD hosted the FCCMC meeting and 4 staff attended the meeting. Dr. Qualls and Dr. Xue attended the virtual meeting with Mali group for malaria project.

January 18-19. Mrs. Moeller, Mrs. Becker, Mr. Weaver attended the FMCA legislation meeting by virtually.

January 19. Dr. Qualls, Dr. Xue, and Mr. Blore attended MosquitoMate virtual meeting.

January 25-27. Dr. Qualls and Dr. Xue attended CDC Vector Week meeting by virtual.

January 31-February 3. Four Board members and 17 employees attended Dodd short courses and 2 staff gave teaching.

Feb 2. Dr. Xue attended the NACCHO vector control committee meeting by virtual.

Feb 7-9. Dr. Xue attended the California Mosquito and Vector control annual meeting and gave a presentation.

Feb 10. Dr. Xue attended the ESA Vector network virtual meeting. Three staff attended the UF/EPI research day and gave poster presentations.

Feb 15. Dr. Xue attended USDA/ARS stockholder zoom meeting.

Feb 28-Mar 4. AMCD staff assisted AMCA annual meeting in Jacksonville. Dr. Xue and Dr. Qualls organized different symposium. AMCD 7 staff gave different presentations.

Mar 7. Dr. Xue and Dr. Muller attended UF/Natural history museum meeting.

Mar 18. Dr. Xue attended UF seminar by virtual.

Mar 21. Dr. Xue attended the ESA vector network zooming meeting.

Mar 24. Dr. Xue attended international Bioscience virtual meeting.

Mar 29-31. AMCD organized the 17th workshop and 5 staff gave presentations.

Apr 6. Dr. Xue attended ESA zoom meeting about ESA fellow.

Apr 15. Dr. Xue attended ESA zoom meeting about legislation.

Apr 19-21. Dr. Farooq, Mr. Smith, Mr. Philips, Dr. Xue and other 2 staff attended Lee CMCD aerial workshop. Dr. Xue and Dr. Farooq gave presentations.

May 3. Mr. R. Weaver, Mrs. K. Gaines, and Dr. Qualls attended the FCCMC zoom meeting.

May 5. Dr. Xue attended the NACCHO vector control zoom meeting.

June 20-23. Dr. Xue, Dr. Qualls, and Mr. Blore attended the FES annual meeting and Dr. Xue moderated a symposium and gave a presentation. Mr. Blore gave a poster presentation.

Jul 7. Dr. Xue attended the ESA zoom meeting about vector control.

Jul 18-22. Dr. Xue organized a symposium for the International Congress of Entomology and gave a presentation.

Aug 4. Dr. Xue and Dr. Qualls attended the ESA career development zoom meeting.

Sep 13. Mr. R. Weaver, Mrs. K. Gaines, Dr. Qualls, and Dr. Xue attended the FCCMC zoom meeting.

Sep 14. Dr. Xue attended the NACCHO zoom meeting.

Sep 19-23. Mrs. Moeller, Dr. S. Peper, Dr. Qualls, and Dr. Xue attended the 8th International Congress of SOVE and gave several presentations.

October 31-November 3. Dr. Xue attended the 2nd Latin SOVE meeting and gave presentations.

November 14-16. AMCD 3 Commissioners and 17 employees attended the FMCA annual meeting and 7 staff gave presentations.

December 8. AMCD organized the SIT working group meeting.

Dec. 13. Dr. Xue and Dr. Qualls attended the ESA vector control zoom meeting. Dr. Qualls gave a presentation.

Dec. 14. Dr. Xue and Dr. Qualls attended the NACCHO vector control zooming meeting.

Presentations at Professional Meetings in 2022

January 10-12. Florida Mosquito Control Assassination's (FMCA) Fly In, AMCD, St. Augustine, FL.
Whitney Qualls. Efficacy of barrier spraying by aerial application.

February 7-9. Annual Meeting of Mosquito & Vector Control Association of California. Sacramento, CA.

Rui-De Xue. Innovation and technology application at Anastasia Mosquito Control District,

March 1-3. American Mosquito Control Association (AMCA) 88th annual meeting, Jacksonville, FL.

Rui-De Xue. Overview of AMCD program at AMCD symposium,

Whitney Qualls. Education and applied research collaboration 2020-2021 at AMCD symposium.

Muhammad Farooq. Development of smart bio-assay cage and evaluation of natural oils as spatial repellents at AMCD symposium.

Vindyha Aryaprema. Establishing the use of action thresholds by mosquito control programs and characterization of surveillance parameters at AMCD symposium.

Steve Peper. Arboviral surveillance through mosquito pools and sentinel chickens at AMCD symposium.

Michael Turell. Factors affecting the vector competence of mosquitoes for arbovirus at AMCD symposium.

Kai Blore. Evaluation of a nanoencapsulated formulation of the essential oil insecticide at AMCD symposium.

Whitney Qualls. *Culex* best management practices for adulticiding and insecticide resistance.

Trish Becker. Microplastic impacts on mosquito larvae at student competition session.

Madeline Steck. Development of mosquito control action thresholds using historical mosquito surveillance and climate data (poster presentation).

March 29-31. 17th Arbovirus Surveillance and Mosquito Control Workshop, AMCD, St. Augustine, FL.

Rui-De Xue. Prospect and challenge of attractive toxic/target sugar baits (ATSB) and bait stations against vector mosquitoes.

Steve Peper. AMCD's sentinel chickens for arbovirus surveillance.

Michael Turell. The Rift Valley fever virus, risks and dangers to Americas. .

Dana Smith. Overview of AMCD aerial program.

M. Farooq. Evaluation of spatial repellents against *Aedes aegypti*.

Kai Blore. Evaluation of nanoparticle formulation of mosquito adulticides.

Whitney Qualls. AMCD's collaboration project update.

Vindhya Aryaprema. Survey report about decision-making action thresholds.

Heather Ward. Arbovirus surveillance using mosquito pools.

M. Farooq. New technological demonstration, smart cage & droplet analysis.

Presentations at Profession Meeting in 2022 (Cont'd.)

April 19-21. Lee County Mosquito Control District's 2nd annual aerial workshop. LCMCD, FL.
 Rui-De Xue. AMCD's past efforts for establishing aerial program.
 M. Farooq. Droplet size analysis. LCMCD 2nd annual aerial workshop.

June 20-22. Florida Entomological Society annual meeting, Gainesville, FL.
 Rui-De Xue. Non-target impact of AGO traps for control of container-inhabiting mosquitoes
 Kai Blore. Nanoparticles for mosquito adulticide formulation (poster presentation). Florida
 Entomological Society, Gainesville, FL.

July 18-22. International Congress of Entomology. Finland.
 Rui-De Xue, Symposium organizer & presentation. Exploring and challenge for management of
 container inhabiting *Aedes* mosquitoes.

September 19-22. 8th International Congress of SOVE, Honolulu, Hawaii.
 Rui-De Xue. Challenge for ATSB against vector mosquitoes.
 Whitney Qualls. Nanoparticles for mosquitocides.
 Whitney Qualls. Action thresholds for mosquito control.
 Steve Peper. A quick and accurate in-house sentinel chicken test for West Nile virus (poster).

October 29-November 3. Rui-De Xue. AMCD program and applied research capability, 2nd Latin
 American SOVE. La Plata. Argentina.

November 2. Rui-De Xue. Seminar about research capability and collaboration at AMCD.
 National Center for Pest and Insecticide Evaluation. Buenos Aires. Argentina.

FMCA 2022 Meeting, Palm Coast, Florida.

V. Aryaprema. Establishing evidence-based action thresholds for *Aedes*, *Culex*, and *Anopheles*
 mosquito abundance in different operational environments.

W. Qualls. From Start to Finish: Creating a Good Laboratory Practice Program at Anastasia
 Mosquito Control District.

S. Peper. To fly or not to fly: an in-depth look at Florida mosquito control aerial capabilities.

M. Farooq. Evaluation systems for spatial repellents against ticks.

D. Autry. Field evaluation of AGO & Sirenix traps against container mosquitoes in St.
 Augustine, Northeastern Florida.

S. Smoleroff. AMCD surveillance trapping program.

K. Blore. Evaluation of silver nanoparticle as a control agent against adult mosquito vectors.

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Farooq M, Bangonan L, Xue RD, Talbalaghi A. 2022. Evaluation of essential oils as spatial repellents against *Aedes aegypti* in an olfactometer. *JAMCA* 38:261-267.

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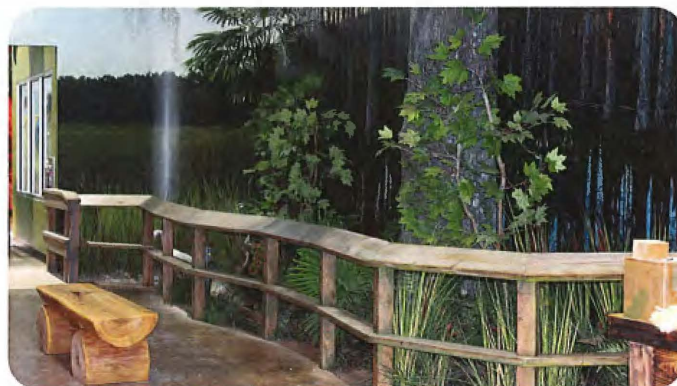
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Zhang SG, Blor K, Xue RD. 2022. Residual efficacy of copper sulphate pentahydrate against *Aedes aegypti* and *Culex quinquefasciatus* in laboratory and semi-field studies. Proceedings and Papers of the Annual Conference of the Mosquito and Vector Control Associations of California. Vol. 90:174-177.

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APR COMMITTEE MEMBERS

Dr. Whitney Qualls
Scientific
Manager/Entomologist



Dr. Rui-De Xue
Director



Heather Keating
Administrative Assistant



Scott Hanna
Accountant/
CFO



Taylor Ballantyne
Education
Specialist



Dena Autry
Supervisor of
Operations



Richard Weaver
Business Manager

As always, we would like to thank all residents of St. Johns County for their support, as well as the AMCD Board of Commissioners, the District's attorney, and CPA, all employees, colleagues, and all contractors, cooperative organizations, and agencies for their help in 2022.



THE 18TH ARBOVIRUS SURVEILLANCE AND MOSQUITO CONTROL WORKSHOP

IN CONJUNCTION WITH EQUIPMENT / TECHNOLOGY DEMONSTRATION
AND THE FMCA'S NE REGIONAL MEETING

Sponsored by AMCD, USDA/CMAVE & FMCA

*Being held at AMCD's Base Station Complex at:
120 EOC Drive, St. Augustine, Florida, 32092*

MARCH 28th – 30th, 2023
www.amcdsjc.org

TENTATIVE PROGRAM AGENDA

MONDAY, MARCH 27, 2023

3:00 P.M. AMCD'S ADJUNCT AND CONSULTING MEETING (DR. MICHAEL TURELL, DR. GUNTER MULLER, DR. STEVEN DOBSON, DR. DONALD BARNARD, DR. ULI BERNIER, DR. KARL MALAMUD-ROAM, AND DR. BEN BEARD)

5:00 P.M. Group Dinner at Ruby Tuesday

TUESDAY, MARCH 28, 2023 (MEETING WILL BE HELD IN THE HANGAR)

7:30 A.M. Registration ... AMCD Staff. Welcome to take a tour of the Disease Vector Education Center, SIT mass rearing facility, and other facility during the workshop.

Moderator: Dr. Rui-De Xue, Executive Director, AMCD, St. Augustine, FL

PANEL SESSION:

8:00 A.M. Welcome & Introduction ... Ms. Gayle Gardner, Chairperson, AMCD's Board of Commissioners; Dr. Ken Linthicum, Center Director, USDA/CMAVE, and Mrs. Sandra Fisher-Grainger, President of the FMCA & Mr. Alden Estep, NE Regional Director of the FMCA.

8:10 A.M. KEYNOTE SPEAKER: Impact of climate change on vector-borne diseases. ... Dr. Ben Beard, Deputy Director, Division of Vector-borne Diseases, CDC, Ft. Collins, CO.

8:50 A.M. KEYNOTE SPEAKER: Ground & aerial ULV spraying for mosquito control ... Mr. Mark Latham, Retired Director, Manatee County Mosquito Control District, Florida.

9:20 A.M. DoD pest management research and the Deployed Warfighter Protection (DWFP) programs ... LTC Michelle Colacicco-Mayhugh and Dr. Gabriela Zollner, Armed Forces Pest Management Board, Silver Spring, MD

9:40 A.M. Contribution and accomplishments of the USDA/CMAVE in the past 80 years ... Dr. Kenneth Linthicum, Center Director, USDA/CMAVE, Gainesville, FL

10:00 A.M. BREAK

Moderator: Dr. Kenneth Linthicum, Center Director, USDA/CMAVE, Gainesville, FL

10:20 A.M. UF's Emerging Pathogen Institute's program overview ... Dr. Glenn Morris, Professor & Director, UF/EPI, Gainesville, FL

10:40 A.M. Overview of the UF/Florida Medical Entomology Laboratory's programs ... Dr. Jorge Rey, Professor & Director, UF/FMEL, Vero Beach, FL

11:00 A.M. Florida's subcommittee on managed marshes-4 decades of progress ... Mr. Ed Foley, Lee County Mosquito Control District, Lehigh Acres, FL

11:20 A.M. DACS/DPI Bureau of Entomological program update ... Dr. Leroy Whilby, Chief, Bureau of Entomology, Nematology, and Plant Pathology, DACS/DPI, Gainesville, FL

11:40 A.M. The Florida DACS mosquito control program update ... Ms. Marah Clark, Environmental Administrator, Entomology and Pest Control Section, DACS, Tallahassee, FL

12:00 P.M. LUNCH BREAK (HELICOPTER HANGAR, *PROVIDED BY VESERIS, VISIT THEIR DISPLAYS*)

INTERNATIONAL SESSION:

Moderator: Dr. Uli Bernier, Adjunct Senior Chemist, AMCD, Retired National Program Leader from USDA/ARS

1:00 P.M. Biocontrol status for mosquito control in India ... Dr. Kadarkarai Murugan, Emeritus Professor, Department of Zoology, Bharathiar University, Coimbatore, India

1:20 P.M. Attractive Toxic Sugar Baits (ATSB) for control of malaria vector mosquitoes in Mali ... Dr. Gunter Muller, Professor, Malaria Research & Training Center, University of Bamako, Mali

1:40 P.M. Mosquito behavior studies and facilities at Kasetsart University ... Dr. Theeraphap Chareonviriyaphap, Professor, Department of Entomology, Kasetsart University, Bangkok, Thailand

2:00 P.M. Mosquito and vector-borne diseases in Taiwan .. Dr. Err-Lieh Hsu, Supervisor of TEPMA, Emeritus Professor Department of Entomology, National Taiwan University, Taipei, Taiwan

2:40 P.M. In-vitro approach on anti-dengue activity of biosynthesized copper nanoparticles (CuNPS) using *Aegle marmelos* against dengue vector, *Aedes aegypti* and dengue virus (DENV-2) ... Dr. K. Kovendan, Department of Zoology, Annamalai University, Tamil Nadu, India

3:00 P.M. Mosquito & vector-borne diseases in India ... Dr. B. Reddy Nail, Professor, Department of Zoology, Osmania University, Hyderabad, India

3:20 P.M. BREAK

INTERNATIONAL SESSION AND OTHERS:

Moderator: Mr. Chris Lesser, Director, Manatee County Mosquito Control District

3:40 P.M. Will mosquito abatement work in Mali, Africa? ... Mr. Richard Loomis, Quelessebougou Malaria Project, Salt Lake City, UT

4:00 P.M. An Australian form of open marsh water management: long term monitoring, ancillary and extended research ... Dr. Pat Dale, Professor Emeritus, Griffith University, Brisbane, Australia

4:20 P.M. Distribution of blood-sucking flies in cattle farm of Bangkok, Thailand ... Dr. Ratchadawan Ngoenkhan, Assistant Professor, Department of Entomology, Kasetsart University, Bangkok, Thailand

4:40 P.M. Update on the American Mosquito Control Association ... Mr. Robert Cartner, Regional Director of the AMCA

5:00 P.M. Knowledge, perceptions, and practices of mosquito larval source management in discarded vehicle tires among New Orleans residents... Dr. Imelda K. Moise, Assistant Professor, University of Miami, Miami, FL and Dr. Claudia Riegel, Director, New Orleans Mosquito and Vector Control District, New Orleans, LA

5:20 P.M. Evaluation of malathion applied by aerial against adult mosquitoes ... Mr. Chris Lesser, Director, Manatee Mosquito Control District, FL

5:40 P.M. **END OF THE SESSION**

5:40 P.M. DINNER & LECTURE (HANGAR) (ALL PARTICIPANTS): The Mosquito Menace: Waging war on six-legged-blood sucking pests BY DR. GORDAN PATTERSON, HISTORY PROFESSOR, FLORIDA TECHNOLOGY INSTITUTE, FL

WEDNESDAY, MARCH 29, 2023

DISEASE SURVEILLANCE (IN HANGAR):

Moderator: Dr. Michael Turell, Adjunct Senior Arbovirologist at AMCD, US Army Medical Research Institute of Infectious Diseases (retired), Fort Detrick, MD

- 8:00 A.M. 2022 Arbovirus surveillance report in Florida ... Dr. Andrea Morrison, Vector-borne Disease Surveillance Coordinator, Bureau of Epidemiology, DOH, Tallahassee, FL
- 8:20 A.M. 2022 Georgia Arboviral State Report... Dr. "Tiffany" Thuy-Vi Thi Nguyen, Public Health Deputy State Entomologist, Georgia Department of Public Health, Atlanta, GA
- 8:40 A.M. Arbovirus surveillance and mosquito control programs in North Carolina. Mr. Michael Doyle, Medical Entomologist, N.C. State Department Health and Natural Resources
- 9:00 A.M. Risk of the introduction of exotic mosquito-borne pathogens into the United States ... Dr. Michael Turell, Senior Arbovirologist (retired), US Army Medical Research Institute of Infectious Diseases, Fort Detrick, MD
- 9:20 A.M. West Nile virus surveillance in sentinel chickens and mosquitoes in Panama City Beach, Florida, from 2014-to 2022... Mr. Michael Riles, Dale Martin, Cindy Mulla, Eddie Summers, Lee Duke, James Clauson, Lindsay P. Campbell, and Bryan V. Giordano
- 9:40 A.M. West Nile virus risk estimation and viral transmission dynamics within a two-vector system. Dr. Mark Clifton, Executive Director, North Shore Mosquito Abatement District, Northfield, IL
- 10:00 A.M. BREAK

DISEASE VECTORS AND BIOLOGY (IN HANGAR):

Moderator: Dr. Jerry Hogsette, Lead Scientist & Research Entomologist, USDA/ARS/CMAVE, Gainesville, FL

- 10:20 A.M. Clash of the Titans: Increasing suitability risk for mosquito borne disease with future climate and population changes... Dr. Sadie J. Ryan, Associate Professor, Medical Geography, Co-Director, Florida Climate Institute, University of Florida, Gainesville, FL
- 10:40 A.M. La Crosse encephalitis in NC – emerging and persistent risk factors ... Dr. Brian Byrd, Professor, Western Carolina University, NC
- 11:00 A.M. WNV surveillance in St. Johns County, Florida in 2022 ... Dr. Steve Peper, Molecular Entomologist, AMCD, St. Augustine, FL
- 11:20 A.M. Impact of landscape on mosquito populations ... Dr. Lindsay O. Campbell, Assistant Professor, UF/IFAS/FMEL, Vero Beach, FL
- 11:40 A.M. Ceratopogonidae and Tabanidae: the other biting Diptera causing nuisance problems in Florida. Dr. Daniel L. Kline, Research Entomologist, USDA/CMAVE, Gainesville, FL and Karen McKenzie
- 12:00 P.M. LUNCH BREAK (PROVIDED BY AZELIS/ADAPCO & AMVAC)

BEHAVIORS AND ECOLOGY (IN HANGAR):

Moderator: Dr. James E. Cilek, Medical Entomologist, Navy Entomology Center of Excellence, Jacksonville, FL

- 1:00 P.M. Targeted mosquito control in cryptic habitats. Dr. James E. Cilek, Medical Entomologist, Navy Entomology Center of Excellence, Jacksonville, FL
- 1:20 P.M. Will history repeat itself? Could *Aedes aegypti* be re-displaced by *Ae. albopictus* from the re-established area in the City of Gainesville, Florida? ... Dr. Peter Jiang, Director, Gainesville Mosquito Control, Dr. Estelle Martin, Assistant Professor, UF/Dept. of Entomology & Nematology, Gainesville, FL
- 1:40 P.M. Analysis of trap data from Brevard County... Mr. Maxwell Reynolds, Environmental Specialist, Bridget Coffey, Jonathan Linder and Joseph Faella, Brevard Mosquito Control District, Titusville, FL
- 2:00 P.M. Attractants and trapping techniques for biting flies ... Dr. Jerry Hogsette, Lead Scientist & Research Entomologist, USDA/ARS/CMAVE, Gainesville, FL
- 2:20 P.M. The Insecto Mosquito Trap, a durable dual action lethal trap ... Dr. Phil Koehler, Professor Emeritus, University of Florida/Urban Entomology Laboratory, Gainesville, FL
- 2:40 P.M. Update on the Florida Mosquito Control Association ... Mrs. Sandra Fisher-Grainger, President of the FMCA
- 3:00 P.M. BREAK

LARVAL & ADULT CONTROL(IN HANGAR):

Moderator: Dr. Whitney A. Qualls, Entomologist/Scientific Manager, AMCD, St. Augustine, FL

- 3:20 P.M. Overview of Department of Entomology and Nematology, UF/IFAS... Dr. Daniel Hahn, Professor & Acting Chair, Department of Entomology and Nematology, University of Florida, Gainesville, FL
- 3:40 P.M. Efficacy of sterile male releases against *Aedes aegypti* in St. Augustine ... Dr. Dr. Chao Chen, Scientist, UF/Dept of Entomology and Nematology. Gainesville, FL
- 4:00 P.M. Many tools in the toolbox: Autocidal strategies based on mosquito mass reared in Anastasia FL... Dr. Stephen Dobson, Professor, University of Kentucky & MosquitoMate
- 4:20 P.M. Controlling *Aedes aegypti* in the Californian desert... Ms. Jennifer Henke, Laboratory Manager, Coachella Valley Mosquito & Vector Control District, CA
- 4:40 P.M. Automated sex sorter and mass release technology for SIT mosquitoes ... Mr. Patrick Keough Senecio Robotics
- 5:00 P.M. KDR mutations in vector mosquitoes ... Dr. Ke Dong, Professor, Department of Biology, Duke University, NC
- 5:20 P.M. Getting a handle on managing insecticide resistance: effective integrated vector management in a landscape of resistant mosquitoes ... Mr. Alden Estep, Research Entomologist, USDA/CMAVE, Gainesville, FL
- 5:40 P.M. MGK's new larvicide products for mosquito control ... Dr. Caleb Corona, Entomologist, MGK, MN
- 6:00 P.M. **END OF THE SESSION**

WEDESDAY, MARCH 29, 2023

INSECT REPELLENT SYMPOSIUM (IN BOARD ROOM, BLD 100):

MODERATOR: DR. DANIEL KLINE, RESEARCH ENTOMOLOGIST, USDA/CMAVE, GAINESVILLE, FL

- 8:00 A.M. Repellents for uniform and clothing treatment ... Dr. Ulrich Bernier, Research Scientist (retired), USDA/ARS/CMAVE, Gainesville, FL
- 8:20 A.M. Lauric and capric acid efficacy in biting fly vs mosquito spatial repellency methods ... Mrs. Kim Benz, Onederings Lavender Farm, Clarksville, OH
- 8:40 A.M. Tick repellent update ... Dr. Muhammed Farooq, Mosquito Control Engineer, AMCD, St. Augustine, FL
- 9:00 A.M. Exploring the potential of natural product repellents in a modified small tube assay... Dr. Edmund Norris, Research Chemist, USDA/CMAVE, Gainesville, FL
- 9:20 A.M. New formulation of repellents against mosquitoes. Mrs. Amy Hickox, President, Scents Fur You, LLC.
- 9:40 A.M. Excitorepellency of local plant extracts against mosquitoes ... Dr. Chutipong Sukkanon, Department of Medical Technology, Walailak University, Nakhon Si Thammarat, Thailand
- 10:00AM BREAK

STUDENT SESSION (IN BOARD ROOM, BLD 100):

Moderator: Dr. Steve Peper, Molecular Entomologist, AMCD, St. Augustine, FL

- 10:20 P.M. Special Lecture: Update about good laboratory practice (GLP) in mosquito control product evaluations ... Dr. Karl Malamud-Roam, Vector Control Consultants, CA
- 10:40 P.M. Semi-field evaluation of mosquito repellent from *Andrographis paniculate* against *Aedes aegypti* and *Anopheles minimus* in Thailand... Miss Patcharawan Sirisopa, Ph.D. student, Department of Kasetsart University, Bangkok, Thailand
- 11:00 P.M. Effect of transfluthrin-treated jute cloth on life history traits of resistant and susceptible *Aedes aegypti* under semi-field conditions ... Mr. Alex Ahebw. Ph.D. student, Department of Kasetsart University, Bangkok, Thailand
- 11:20 P.M. Protective efficacy of topical repellents against malaria vector *Anopheles dirus* in a semi-field system... Mr. Manop Saeung, Ph. D. student. Department of Kasetsart University, Bangkok, Thailand

11:40 P.M. Irritant and repellent behavioral responses of sterile *Aedes aegypti* males developed for SIT disease control strategies ... Mr. Jirod Nararak, Ph.D. student, Department of Kasetsart University, Bangkok, Thailand

12:00 P.M. LUNCH BREAK (IN HELICOPTER HANGAR, PROVIDED BY AZELIS/ADAPCO & AMVAC)

STUDENT SESSION CONTINUE & OTHERS (IN BOARD ROOM BLD 100):

Moderator: Mrs. Sandra Fisher-Grainger, President of the FMCA

1:00 P.M. Toxicity of commercialized herbicides to mosquitoes and ticks... Ms. Sarah McComic, Graduate Student, Dr. Daniel Swale, Associate Professor, University of Florida/EPI, Gainesville, FL

1:20 P.M. Update on evaluation of nanoparticle formulation of mosquito adulticides ... Mr. Kai Blore, UF/Ph.D. Student / Laboratory Manager, AMCD, St. Augustine, FL

1:40 P.M. *Wolbachia* infection differentially impacts *Culex quinquefasciatus* fitness and West Nile virus infection under different levels of larval competition ... Mr. Abdullah Alomar, UF/FMEL, Ph.D. student, Vero Beach, FL

2:00 P.M. Insecticide resistance and metabolic detoxification in the mosquito *Aedes aegypti* .. Mr. Dylan Brown, Ph.D. student, Dr. Nannan Liu, Professor, Department of Entomology and Plant Pathology, Auburn University, AL

2:20 P.M. Machine learning of *Aedes* mosquito population dynamics in Alabama .. Mr. Yifan Wang, Ph.D. student, Dr. Nannan Liu, Professor, Department of Entomology and Plant Pathology, Auburn University, AL

2:40 P.M. Overview of AMCD intern student training program and opportunity ... Dr. Rui-De Xue, Executive Director, AMCD, St. Augustine, FL

3:00 P.M. BREAK

3:20 P.M. Reassessing the host associations of the *Culex* flavivirus vectors ... Dr. Lawrence E. Reeves, Assistant Professor, University of Florida/FMEL, Vero Beach, FL

3:40 P.M. Overview of 2022 operations on the Space Coast through Hurricanes Ian and NicoleMr. Joseph Faella, Director, Jonathan Linder, Maxwell Reynolds, Bridget Coffey, Michael Buono, Jonathan Koagel and Steven Whitt, Brevard Mosquito Control District, Titusville, FL

4:00 P.M. Interrupting Dengue-mosquito interactions to reduce pathogen transmission... Dr. Zhilin Li, Postdoctoral Associate, Dr. Daniel Swale, Associate Professor, University of Florida/EPI, Gainesville, FL

4:20 P.M. Calibration, Characterization of UAS for adulticiding and larviciding ... Mr. Bill Reynolds, CEO, Leading Edge Associates, Daytona Beach, FL

4:40 P.M. Salinity change in different location on *Aedes aegypti* breeding in St. Johns County, Florida ... Dr. Vindyha Aryaprema, Biologist, St. Augustine, FL

5:00 P.M. **END OF THE SESSION**

THURSDAY, MARCH 30, 2023

OTHER PROGRAM I (IN HANGAR):

Moderator: Dr. Dave Hoel, Executive Director, Lee County MCD, Lehigh Acres, FL

8:00 A.M. Executing population-dependent threshold SIT for control of *Aedes aegypti* in Southern California in 2023... Dr. Michelle Brown, General Manager, West Valley Mosquito and Vector Control District, CA.

8:20 A.M. Research program overview from Anastasia Mosquito Control District ... Dr. Whitney Qualls, Scientific Manager, Anastasia Mosquito Control District, St. Augustine, FL

8:40 A.M. Science research initiative and community engaged learning programs in Salt Lake City Mosquito Control Abatement ... Dr. Chris Bibbs, Lab Manager, Salt Lake City Mosquito Abatement, Salt Lake City, UT

9:00 A.M. Help and assistant to local mosquito control programs from the AMCA's Technical Advisor Dr. Daniel Markowski, AMCA, Technical Advisor

9:20 A.M. Overview of Volusia mosquito Control program ... Mr. Marcus McDonough, Director, Volusia Mosquito Control District, New Smyer Beach, FL.

9:40 A.M. Comparison of different larval diets and an ammonia reducing compound on the mass rearing of *Aedes aegypti*... Mr. Steven Stenhouse, Johanna Bajonero Cuervo, Rachel Morreale, Aaron Lloyd, David Hoel, Lee County Mosquito Control District, Lehigh Acres, FL

10:00 A.M. BREAK

OTHER PROGRAM II (IN HANGAR):

Moderator: Dr. Chris Bibbs, Lab Manager, Salt Lake City Mosquito and Vector Control Abatement

10:20 A.M. Global perspective on immature adaptation through natural selection of the immatures in the culicomorpha infraorder... Mr. Herb Nyberg, New Mountain Innovation, Florida Keys, FL

10:40 A.M. Update about sensory smart cages development for mosquito adulticide evaluation... Dr. William Eisenstadt, Professor, Department of Electronic Engineer, University of Florida, Gainesville, FL

11:00 A.M. Expression, activity, and biochemical inhibition of a- and b-glucosidases in different life stages of *Culex quinquefasciatus* ... Dr. Edwin R. Burgess IV, Assistant Professor, Entomology and Nematology Department, University of Florida, Gainesville, FL

11:20 A.M. Brevard County community outreach and education program ... Ms. Bridget Coffey, Environmental Specialist, Maxwell Reynolds, Jonathan Linder and Joseph Faella, Brevard Mosquito Control District, Titusville, FL

11:40 A.M. Characterization of potassium-chloride cotransporter in insect neural systems... Dr. Rui Chen, Postdoctoral Associate, Dr. Daniel Swale, Associate Professor, University of Florida/EPI, Gainesville, FL

12:00 P.M. LUNCH BREAK (provided by CENTRAL LIFE SCIENCES)

1:00 P.M. DEMONSTRATION IN THE FIELD

Industry equipment and drone demonstrations Mr. Bill Reynolds, CEO, Leading Edge Associates & Dr. Whitney Qualls, AMCD, St. Augustine, FL

New technological demonstration, new backpacking sprayer, smart cage, & droplet analysis Dr. M. Farooq, AMCD, St. Augustine, FL, Dr. James Cilek, NECE, Jacksonville, FL, Dr. William Eisenstadt, Professor of University of Florida

3:00 P.M. End of Demonstration

3:30 P.M. END OF THE 18th WORKSHOP

Welcome to join the 19th workshop, St. Augustine, FL, March 26th - 28th, 2024.

**Anastasia Mosquito Control District
Consolidated Financial Statement-Local Fund January -YTD 2022-2023**

	Jan 23	Oct - Jan 23	Budget	\$ Over/(Under) Budget
Income				
360 · Taxes	2,513,604.13	6,045,243.39	7,394,483.00	-1,349,239.61
386 · Interest Earned	28,978.03	88,061.85	35,413.30	52,648.55
390 · Grants				
391.2 · Grant Money, Other	4,753	58,574	290,000	(231,426)
Total 390 · Grants	4,753	58,574	290,000	(231,426)
392 · Miscellaneous				
392.1 · Workshops	2,013	2,013		2,013
392.3 · Salvage			8,000	(8,000)
392.5 · Other				
392.6 · Dormatory Rent	619	619	12,000	(11,381)
392.5 · Other - Other		7,490	5,000	2,490
Total 392.5 · Other	619	8,109	17,000	(8,891)
Total 392 · Miscellaneous	2,632	10,121	25,000	(14,879)
Total Income	\$ 2,549,967	\$ 6,202,001	\$ 7,744,896	\$ (1,542,895)
Expenditure				
405 · Personal Services				
410 · Executive Salaries	2,000	9,399	24,000	(14,601)
412 · Full-Time Employees				
414 · Salaries & Wages	69,976	418,449	1,750,926	(1,332,477)
415 · Full-Time Admin. Leave	9,310	26,525		26,525
416 · Overtime	327	7,638	10,000	(2,362)
418 · Sick Leave	4,744	37,790	98,487	(60,697)
420 · Annual Leave	19,285	54,204	125,347	(71,143)
421 · Holiday Pay	46,551	65,171	111,917	(46,746)
423 · Annual Leave/ SL Payout			25,000	(25,000)
424 · Reserves for Promos/Other			20,000	(20,000)
425 · Internal Recognition		7	1,500	(1,493)
Total 412 · Full-Time Employees	150,193	609,785	2,143,177	(1,533,392)
426 · Seasonal Employees				
428 · Salaries & Wages	1,200	26,032	223,086	(197,054)
428.4 · Seasonal Annual Leave		240		240
429 · Seasonal Holiday Pay				
429.1 · Seasonal Admin. Leave	150	2,295		
429 · Seasonal Holiday Pay - Oth	750	1,050		1,050
Total 429 · Seasonal Holiday Pay	900	3,345		3,345
430 · Overtime		2,033		2,033
Total 426 · Seasonal Employees	2,100	31,650	223,086	(191,436)
Total 405 · Personal Services	154,293	650,834	2,390,263	(1,739,429)
445 · Personal Service Benefits				
448 · FICA	11,388	47,071	182,855	(135,784)
450 · Retirement	21,856	93,201	256,072	(162,871)

**Anastasia Mosquito Control District
Consolidated Financial Statement-Local Fund January -YTD 2022-2023**

	Jan 23	Oct - Jan 23	Budget	\$ Over/(Under) Budget
452 · Life/Health/Dental	177,160	351,450	744,345	(392,895)
454 · Workers' Comp Ins		37,161	67,920	(30,759)
455 · Employee Education			30,000	(30,000)
456 · Unemployment Comp			10,000	(10,000)
Total 445 · Personal Service Benefits	210,404	528,883	1,291,192	(762,309)
461 · Operating Expenses				
462 · Property Appraiser	28,611	57,086	60,000	(2,914)
464 · Tax Collector	50,933	122,413	95,000	27,413
466 · Attorney	1,500	4,234	24,000	(19,766)
468 · Medical Exams				
468.1 · Pre-Employment Admin.	40	60		60
468 · Medical Exams - Other		450	1,300	(850)
Total 468 · Medical Exams	40	510	1,300	(790)
470 · Audit		4,500	9,000	(4,500)
474 · Other Contract Svs				
478 · Cleaning Service	5,200	7,310	15,000	(7,690)
482.1 · CopyFax (prev. Aztec)	222	523	2,000	(1,477)
488 · Data Hosting			5,400	(5,400)
489.0 · Software Subscriptions	2,035	2,035	18,000	(15,965)
489.3 · Towing Services			1,000	(1,000)
489.4 · Pest Control	107	214	2,000	(1,786)
489.5 · Good Laboratory Practice (GLP)			12,000	(12,000)
489.6 · Adjunct Positions, 4 @ \$5,000		637	25,000	(24,363)
489.7 · District Program Review			12,000	(12,000)
490.5 · Database Maint./ Upgrades				
490.55 · Drone/ Mapping Softwr.Maint.			10,000	(10,000)
490.5 · Database Maint./ Upgrds - Oth.		12,000	20,000	(8,000)
Total 490.5 · Database Maint./ Upgrades		12,000	30,000	(18,000)
494 · Website Maintenance			6,000	(6,000)
556 · Uniform Service	1,557	5,256	20,000	(14,744)
560 · Bottled Water		28	1,700	(1,672)
562 · Waste Tires	35	40	5,000	(4,960)
474 · Other Contract Svs - Other	137	4,373	16,245	(11,872)
Total 474 · Other Contract Svs	9,293	32,415	171,345	(138,930)
564 · Aerial OPS			200,000	(200,000)
461 · Operating Expenses - Other	103	113		113
Total 461 · Operating Expenses	90,481	221,271	560,645	(339,374)
572 · Travel & Per Diem				
573 · SOVE Meetings		2,341	5,868	(3,527)
574 · AMCA - Meetings	4,158	4,751	19,715	(14,964)
575 · AMCD Events		643	2,000	(1,357)
576 · FMCA - Meetings	6,411	12,511	10,140	2,371
578 · Training, Other	114	1,089		1,089

**Anastasia Mosquito Control District
Consolidated Financial Statement-Local Fund January -YTD 2022-2023**

	Jan 23	Oct - Jan 23	Budget	\$ Over/(Under) Budget
579 · Travel Associated w/ Training	3	3	15,000	(14,997)
572 · Travel & Per Diem - Other	687	879		879
Total 572 · Travel & Per Diem	11,373	22,217	52,723	(30,506)
580 · Telephone/Commun	1,717	6,947	25,904	(18,957)
582 · Freight Service	65	701	5,500	(4,799)
584 · Utility Service	3,022	14,713	39,000	(24,287)
586 · Rentals\Leases			1,000	(1,000)
588 · Fleet/Prop/Liab Insurance				
592 · Above Ground Tank Ins		997	1,000	(3)
593 · Aerial Insurance		44,619	60,000	(15,381)
588 · Fleet/Prop/Liab Insurance - Other		155,046	109,000	46,046
Total 588 · Fleet/Prop/Liab Insurance		200,662	170,000	30,662
605 · Repairs & Maintenance				
606 · Outside Maintenance				
608 · Buildings/Grounds	2,759	4,766	16,000	(11,234)
610 · Trucks	178	1,118	3,000	(1,882)
614 · Misc. Equipment		445	1,500	(1,055)
616 · Boats		88	250	(162)
618 · Heavy Equipment	161	484	250	234
620 · Office Equipment			1,000	(1,000)
622 · Computers			5,000	(5,000)
624 · Telephones		489	1,000	(511)
626 · Other			1,000	(1,000)
606 · Outside Maintenance - Other		168		
Total 606 · Outside Maintenance	3,099	7,559	29,000	(21,441)
627 · Aerial Maintenance Costs				
627.2 · Avionics Repair (radios)			5,000	(5,000)
627.3 · Aircraft Supplies/ Parts	1,239	2,295	5,000	(2,705)
627.4 · Aircraft Spray System Maint.			3,000	(3,000)
627.7 · Night Vision Goggles (semi-annu	416	416		416
627.8 · Misc. Aerial Tools & Equipment	122	190		190
627 · Aerial Maintenance Costs - Other	1,199	6,438	99,150	(92,712)
Total 627 · Aerial Maintenance Costs	2,975	9,339	112,150	(102,811)
635 · Inside Maintenance				
636 · Maintenance of Equipment- Other	225	3,957	10,000	(6,043)
638 · Trucks	116	269	10,000	(9,731)
642 · Boats		324	500	(176)
644 · Heavy Equipment			5,000	(5,000)
648 · Batteries		269	3,000	(2,731)
650 · Tires			5,000	(5,000)
652 · Welding Supplies	1,205	1,205	1,000	205
654 · Cleaning Supplies	697	1,768	1,500	268
655 · Minor Structural Improv & Maint			10,000	(10,000)
657 · Materials for Const. & Maint.			6,000	(6,000)

**Anastasia Mosquito Control District
Consolidated Financial Statement-Local Fund January -YTD 2022-2023**

	Jan 23	Oct - Jan 23	Budget	\$ Over/(Under) Budget
658 · Inside Maintenance- Other			4,000	(4,000)
659 · Computers	834	834	3,000	(2,166)
635 · Inside Maintenance - Other	34	259		259
Total 635 · Inside Maintenance	3,112	8,886	59,000	(50,114)
605 · Repairs & Maintenance - Other	23	23		
Total 605 · Repairs & Maintenance	9,209	25,806	200,150	(174,344)
663 · Printing/ Reproduction				
664 · Printing			500	(500)
Total 663 · Printing/ Reproduction			500	(500)
667 · Public Promotional Expense				
668 · Avertising/ Education		1,845	20,000	(18,155)
667 · Public Promotional Expense - Other	140	219		219
Total 667 · Public Promotional Expense	140	2,064	20,000	(17,936)
673 · Other Current Charges				
676 · Advertising, Other				
676.1 · Legal Notices			2,000	(2,000)
676.2 · Public Notices			1,000	(1,000)
676.3 · Position Openings			1,000	(1,000)
Total 676 · Advertising, Other			4,000	(4,000)
677 · Bank Charges	(29,672)	1,406	1,500	(94)
678 · Registration/Tags			250	(250)
680 · State Community Service Fee			300	(300)
682 · Tank Registrations			275	(275)
Total 673 · Other Current Charges	(29,672)	1,406	6,325	(4,919)
693 · Office Supplies				
694 · Office Supplies & Expense				
694.1 · Software		375	3,000	(2,625)
694 · Office Supplies & Expense - Other	2,180	4,685	13,000	(8,315)
Total 694 · Office Supplies & Expense	2,180	5,060	16,000	(10,940)
695 · Commissioner Supplies	500	2,000	6,000	(4,000)
693 · Office Supplies - Other	149	525		525
Total 693 · Office Supplies	2,829	7,585	22,000	(14,415)
696 · Protective Clothing	126	451	2,500	(2,049)
698 · Misc. Supplies				
698.2 · Phones			1,500	(1,500)
698.3 · Phones, Parts & Repairs			1,000	(1,000)
698.4 · Sunshine Fund	(32)	(74)	500	(574)
699 · Other Misc. Supplies	281	281	2,400	(2,119)
700 · Chicken/ Surveillance Supplies	1,170	1,997	8,000	(6,003)
702 · Entomology Supplies				
702.2 · Molecular Lab	6,202	9,942	56,540	(46,598)
702 · Entomology Supplies - Other	2,019	12,101	96,806	(84,704)
Total 702 · Entomology Supplies	8,221	22,043	153,346	(131,303)

**Anastasia Mosquito Control District
Consolidated Financial Statement-Local Fund January -YTD 2022-2023**

	Jan 23	Oct - Jan 23	Budget	\$ Over/(Under) Budget
704 · Safety Equip/Supplies/Checks				
704.1 · Safety Inspect (Fire, Alarm, Em	625	1,250		1,250
704.2 · FDEP Annual Fuel System Check			1,025	(1,025)
704.3 · FDEP Annual Generator Tank Chck			1,175	(1,175)
704.4 · FDEP Fuel Syst. Repairs			4,100	(4,100)
704 · Safety Equip/Supplies/Checks - Oth	3,637	6,644	18,500	(11,856)
Total 704 · Safety Equip/Supplies/Checks	4,262	7,894	24,800	(16,906)
698 · Misc. Supplies - Other	35	59		59
Total 698 · Misc. Supplies	13,937	32,200	191,546	(159,345)
708 · Tools/Implements				
708.3 · Hand Tools (Foggers, etc.)			4,129	(4,129)
708 · Tools/Implements - Other	70	440	5,000	(4,560)
Total 708 · Tools/Implements	70	440	9,129	(8,688)
709 · Publications & Dues				
710 · Books/Pub/Sub/Mem		2,159	20,500	(18,341)
712 · FMCA Corp Dues			6,000	(6,000)
714 · FMCA Emp Dues	7,500	7,500	1,225	6,275
716 · AMCA Dues	3,205	3,205	1,560	1,645
717 · FICPA Dues			275	(275)
718 · AHMP/ACHMM Dues			100	(100)
719 · SOVE Dues			580	(580)
709 · Publications & Dues - Other	480	480		480
Total 709 · Publications & Dues	11,185	13,344	30,240	(16,896)
720 · Training				
720.1 · Specified Purpose -Training	149	149		
720 · Training - Other	9,484	9,964	39,000	(29,036)
Total 720 · Training	9,633	10,113	39,000	(28,887)
723 · Gas, Oil & Lube				
724 · Gasoline	8,139	15,758	108,000	(92,242)
726 · Hydraulic Oil			500	(500)
728 · Transmission Fluid			120	(120)
730 · Diesel Fuel		27	500	(473)
731 · Aerial Fuel (Jet A)	454	454	25,000	(24,546)
732 · Motor Oil			2,880	(2,880)
Total 723 · Gas, Oil & Lube	8,593	16,239	137,000	(120,761)
741 · Chemicals/Solvents				
744 · Adulticide Products				
758 · Aqualeur 20-20			62,500	(62,500)
744 · Adulticide Products - Other	63,219	63,219	106,080	(42,861)
Total 744 · Adulticide Products	63,219	63,219	168,580	(105,361)
745 · NALED			166,320	(166,320)
746 · BTI Granules			3,125	(3,125)
753 · Altosid WSP			30,000	(30,000)

**Anastasia Mosquito Control District
Consolidated Financial Statement-Local Fund January -YTD 2022-2023**

	Jan 23	Oct - Jan 23	Budget	\$ Over/(Under) Budget
754 · Altosid Xrg Granules				
754.1 · Altosid XR			3,500	(3,500)
754 · Altosid Xrg Granules - Other			230,000	(230,000)
Total 754 · Altosid Xrg Granules			233,500	(233,500)
755 · Oil (Coco Bear)			5,060	(5,060)
757 · Vectobac 12AS			36,500	(36,500)
759 · Natular DT			420	(420)
760 · Sustain MGB			96,000	(96,000)
741 · Chemicals/Solvents - Other	(250)	(250)		
Total 741 · Chemicals/Solvents	62,969	62,969	739,505	(676,536)
900 · Capital Outlay				
914.07 · Scanner/Card Reader/ Computers			14,512	(14,512)
924.07 · Laptop w/ docking capabil.			8,000	(8,000)
945 · LAND & FACILITY				
945.005 · SIT Building				
945.051 · SIT Bldg.- Pupae Sep. Mach. (2)			120,000	(120,000)
945.052 · SIT Bldg._Larval Feeding Mach.			45,000	(45,000)
945.053 · SIT Bldg.-Larval Rearing Set(2)			80,000	(80,000)
945.110 · SIT Bldg., Plan Design(Bld1	273,304	704,634		704,634
945.005 · SIT Building - Other			2,535,118	(2,535,118)
Total 945.005 · SIT Building	273,304	704,634	2,780,118	(2,075,484)
945.007 · Capital Replacements/ Upgrades			30,000	(30,000)
945.010 · Construct. EDU Cntr (Bldg. 100	102,125	249,119		249,119
945.015 · Construct EDU Display(Bldg.100	903	2,467	200,000	(197,533)
945.016 · Construct EDU Exter. (Bldg 100	840	840		840
945.800 · BUILDING 800				
945.10 · Pesticide & Larv. Making facil.		5,761		
Total 945.800 · BUILDING 800		5,761		
945 · LAND & FACILITY - Other			365,000	(365,000)
Total 945 · LAND & FACILITY	377,172	962,821	3,375,118	(2,412,297)
950 · Machinery and Equipment				
938 · I-Pads/ Computers				
938.1 · 3-D Printer			2,500	(2,500)
938.2 · 3-D Sonic Anemometer			4,000	(4,000)
Total 938 · I-Pads/ Computers			6,500	(6,500)
938.3 · Self-Propelled Articulat. Boom			80,000	(80,000)
949.07 · AVIATION				
949.073 · AGNAV,Install			15,000	(15,000)
949.090 · Drone			135,000	(135,000)
949.091 · Tail Rotor Hub O/H			9,000	(9,000)
949.093 · Stainless Steel Tank Adulicide			20,000	(20,000)
949.094 · Atomizer			6,000	(6,000)
949.095 · Vortex Airboat Granular Sprayer			5,000	(5,000)

**Anastasia Mosquito Control District
Consolidated Financial Statement-Local Fund January -YTD 2022-2023**

	Jan 23	Oct - Jan 23	Budget	\$ Over/(Under) Budget
949.096 · Ka Flex driveshaft Overhaul			16,000	(16,000)
949.07 · AVIATION - Other		19,854		19,854
Total 949.07 · AVIATION		19,854	206,000	(186,146)
950.005 · ATV/ UTV		12,528	20,000	(7,472)
950.01 · Droplet Mach/ Fluorr Drop Visio			26,317	(26,317)
950.011 · Blower/ Motor (2 @ \$3,000)			6,000	(6,000)
950.017 · Grant Funded- Equip./ Software			5,000	(5,000)
950.04 · Vehicle Lift Base			10,000	(10,000)
950.34 · Computers			10,000	(10,000)
950.35 · Twister Backpack Sprayers (2)		3,556	5,400	(1,844)
950.36 · Handheld Foggers (4 @ \$2,000)			8,000	(8,000)
950.411 · Monitor V (2 @ \$10,000)			20,000	(20,000)
950 · Machinery and Equipment - Other		14,671		14,671
Total 950 · Machinery and Equipment		50,609	403,217	(352,608)
955 · Vehicles				
955.11 · Pickup Truck 4 x4 1/2 Ton-Base			100,000	(100,000)
Total 955 · Vehicles			100,000	(100,000)
Total 900 · Capital Outlay	377,172	1,013,430	3,900,847	(2,887,417)
Total Expenditure	\$ 937,545	\$ 2,832,276	\$ 9,834,968	\$ (7,002,692)
Surplus/(Deficit)	\$ 1,612,422	\$ 3,369,725	\$ (2,090,072)	\$ 5,459,797