

INDIAN RIVER MOSQUITO CONTROL DISTRICT
 Financial Report
 for
 March 1 – March 31, 2023

I.	Income	\$113,972.14
	State Funds	<u>\$262.86</u>
		\$114,235.00
II.	Disbursements	
	a. Local Funds (14581-14631 & dd13318-dd13411)	\$508,155.88
	b. Non-direct-deposit payroll (None)	\$-----
	c. State Funds (None)	<u>\$-----</u>
	d. Total Disbursements	<u>-\$508,155.88</u>
	e. Net	-\$393,920.88
III.	Change in cash position from last month	- \$390,661.29
IV.	Bank balance (all accounts)	\$6,261,389.44
	a. Less reserves and contingency	<u>-\$1,718,143.05</u>
V.	Total available cash	\$4,543,246.39

IRMCD Monthly Board Disbursement Report

As of March 31, 2023

Type	Date	Num	Name	Memo	Amount
1050 Seacoast Oper-4941 & 9831					
Liability Check	03/01/2023		QuickBooks Payroll Service	Created by Payroll Service on 02/27/2023	-50,862.19
Liability Check	03/16/2023		QuickBooks Payroll Service	Created by Payroll Service on 03/09/2023	-144.00
Liability Check	03/15/2023		QuickBooks Payroll Service	Created by Payroll Service on 03/14/2023	-51,608.47
Liability Check	03/16/2023		QuickBooks Payroll Service	Created by Payroll Service on 03/15/2023	-761.36
Liability Check	03/29/2023		QuickBooks Payroll Service	Created by Payroll Service on 03/28/2023	-55,891.42
Liability Check	03/03/2023	EFT	IRMCD-FICA,SS,Med	59-6001309	-17,209.00
Liability Check	03/02/2023	EFT	Child Support		-507.39
Liability Check	03/03/2023	EFT	Nationwide Retirement Solutions, Inc.	0025223001	-1,296.72
Liability Check	03/03/2023	EFT	Nationwide Retirement Solutions, Inc.	0025223001	-520.00
Liability Check	03/03/2023	EFT	Florida Retirement System	420000041009- February 2023 Contribut...	-24,255.20
Liability Check	03/17/2023	EFT	IRMCD-FICA,SS,Med	59-6001309	-17,889.42
Liability Check	03/16/2023	EFT	Child Support		-507.39
Liability Check	03/17/2023	EFT	Nationwide Retirement Solutions, Inc.	0025223001	-1,646.72
Liability Check	03/17/2023	EFT	Nationwide Retirement Solutions, Inc.	0025223001	-770.00
Liability Check	03/17/2023	EFT	American Fidelity-Products	MCP#64213 Inv#D567786 March 2023 ...	-2,884.04
Liability Check	03/24/2023	EFT	Texas Life Insurance Company	SS0A9H- March 2023 Premiums	-456.32
Liability Check	03/24/2023	EFT	Principal Financial Group	Acct#1037999-10001 April 2023 Premiu...	-818.44
Check	03/24/2023	EFT	American Fidelity Assurance Company	MCP#64213 Inv#2150544G March 2023...	-862.05
Liability Check	03/31/2023	EFT	IRMCD-FICA,SS,Med	59-6001309	-18,958.58
Liability Check	03/31/2023	EFT	Child Support		-99.98
Liability Check	03/31/2023	EFT	Nationwide Retirement Solutions, Inc.	0025223001	-1,646.72
Liability Check	03/30/2023	EFT	Nationwide Retirement Solutions, Inc.	0025223001	-770.00
Liability Check	03/31/2023	EFT	Cleaning By Mina, LLC	Inv # 57	-1,003.10
Check	03/01/2023	14581	Cintas Corporation No. 2	Payer # 14087358 Inv # 4147362848	-419.58
Check	03/01/2023	14582	David Heating & Air Conditioning	Inv # 3950	-650.00
Check	03/01/2023	14583	Florida Heart CPR	Inv # 3645	-1,069.00
Check	03/01/2023	14584	Jordan Power Equipment Corp.	Inv # 112065, Inv # 112344, Inv # 112089	-125.88
Check	03/01/2023	14585	Mullinax Ford of Vero Beach	Inv # 140464	-121.00
Check	03/01/2023	14586	John Deere Financial	Inv # 127086266-001	-244.54
Check	03/01/2023	14587	Vero Chemical Distributors Inc	Inv # 330624	-31.80
Check	03/01/2023	14588	CIT-Copier Contract	Inv # 41846474	-199.23
Check	03/01/2023	14589	Indian River Contracting, LLC	Inv # 19754, Inv # 19735	-26,460.66
Check	03/01/2023	14590	R&S Metalworks & Co	Inv # 9605	-1,800.00
Check	03/01/2023	14591	Staples Advantage	Acct # ATL1067547 Inv # 8069320761	-120.24
Check	03/01/2023	14592	FMIT	FMIT #0273 Inv # INV-37804-W3H3 22-...	-26,729.00
Check	03/03/2023	14593	MasterCard	Acct # 1603 - Statement Closing Date 2/...	-15,872.31
Check	03/08/2023	14594	Board of County Commissioners	Inv # 2/28/2023	-4,798.11
Check	03/08/2023	14595	Carr, Riggs & Ingram LLC	Inv # 17528654	-1,200.00
Check	03/08/2023	14596	Cintas Corporation No. 2	Payer # 14087358 Inv # 4148066436	-419.58
Check	03/08/2023	14597	Waste Management, Inc of Florida	Customer # 9-18548-52001 Inv # 10040...	-217.67
Check	03/08/2023	14598	Cole Auto Supply	Acct # 1642 Closing Date 2/28/2023	-1,096.13
Check	03/15/2023	14599	Fisher Scientific Co. LLC	Acct # 212441-001 Inv # 0679930	-73.61
Check	03/15/2023	14600	Home Depot Credit Services	Acct # 6035322501565166 Inv # 5087124	-59.97
Check	03/15/2023	14601	Indian River Contracting, LLC	Inv # 19787	-6,512.37
Check	03/15/2023	14602	Staples Advantage	Acct # ATL1067547 Inv # 8069400919	-77.13
Check	03/15/2023	14603	Cintas Corporation No. 2	Payer # 14087358 Inv # 4148752095	-419.58
Check	03/15/2023	14604	McMaster-Carr Supply Co	Inv # 94075781	-275.83
Check	03/15/2023	14605	Lowe's	Acct # 2096 Inv # 967672, Inv # 915794,...	-164.33

IRMCD

Monthly Board Disbursement Report

As of March 31, 2023

Type	Date	Num	Name	Memo	Amount
Check	03/15/2023	14607	AT&T	Acct # 77256223930870454 - Local/Lon...	-263.27
Check	03/15/2023	14608	AT&T Mobility	Acct # 823540712 Invoice # 823540712...	-821.08
Check	03/15/2023	14609	Indian River Contracting, LLC	Inv # 19786	-2,128.87
Check	03/22/2023	14610	Cintas Corporation No. 2	Payer # 14087358 Inv # 4149472630, In...	-839.16
Check	03/22/2023	14611	Indian River Contracting, LLC	Inv # 19810, Inv # 19811, Inv # 19831	-21,027.50
Check	03/22/2023	14612	Indian River County Utilities	Cust # 0012218-062300 Bill # 11375902	-38.05
Check	03/22/2023	14613	Lewis, Longman, & Walker P.A.	Inv # JDR-151404	-4,885.37
Check	03/22/2023	14614	McMaster-Carr Supply Co	Inv # 94336126	-4,119.27
Check	03/22/2023	14615	Thomas R. Summersill, Inc	Inv # 03872-M23-APL, Inv # 03877-M23-...	-26,659.29
Check	03/22/2023	14616	Homeland Irrigation Center	Inv # 274712 & Inv # 27413	-483.98
Check	03/22/2023	14617	Comcast	Acct # 8535115060598219	-405.80
Check	03/22/2023	14618	Shoe Carnival, Inc.	Inv # 363011, Inv # 307441	-304.94
Check	03/22/2023	14619	MWI Pumps	Inv # VB001840, Inv # VB001839	-5,343.11
Check	03/22/2023	14620	Cleaning By Mina, LLC	Inv # 58	-1,003.10
Check	03/22/2023	14622	Goodyear Auto Service #6626	Inv # 0000042	-178.38
Check	03/24/2023	14623	FPL	Acct # 90168-13504	-1,315.64
Liability Check	03/29/2023	14624	FMIT	FH0273 March 2023 Contributions/ April ...	-43,689.12
Check	03/29/2023	14625	I.R.C. Property Appraiser	Quarterly commission due (3rd qtr 2022-...	-19,039.00
Check	03/29/2023	14626	Apple Machine and Supply Co.	Inv # 0325177	-5,725.20
Check	03/29/2023	14627	Indian River Contracting, LLC	Inv # 19848	-17,176.73
Check	03/29/2023	14627	Staples Advantage	Acct # ATL1067547 Inv # 8069640598	-34.00
Check	03/29/2023	14628	CIT-Copier Contract	Inv # 42045357	-199.23
Check	03/29/2023	14629	Como Oil and Propane	Acct # 1003327 Inv # 2034419	-40.00
Check	03/29/2023	14630	Waste Management, Inc of Florida	Customer # 9-18548-52001 Inv # 10470...	-217.67
Check	03/29/2023	14631	MasterCard	Acct # 1603 - Statement Closing Date 3/...	-11,692.06

Total 1050 Seacoast Oper-4941 & 9831

1060 Seacoast State Funds-5161

Total 1060 Seacoast State Funds-5161

TOTAL

-508,155.88

-508,155.88

IRMCD
Monthly Board Disbursement Report
As of March 31, 2023

Type	Date	Num	Memo	Credit
1050 Seacoast Oper-4941 & 9831				
Paycheck	03/02/2023	Mar 23		
Paycheck	03/02/2023	dd13318	Direct Deposit	
Paycheck	03/02/2023	dd13319	Direct Deposit	
Paycheck	03/02/2023	dd13320	Direct Deposit	
Paycheck	03/02/2023	dd13321	Direct Deposit	
Paycheck	03/02/2023	dd13322	Direct Deposit	
Paycheck	03/02/2023	dd13323	Direct Deposit	
Paycheck	03/02/2023	dd13324	Direct Deposit	
Paycheck	03/02/2023	dd13325	Direct Deposit	
Paycheck	03/02/2023	dd13326	Direct Deposit	
Paycheck	03/02/2023	dd13327	Direct Deposit	
Paycheck	03/02/2023	dd13328	Direct Deposit	
Paycheck	03/02/2023	dd13329	Direct Deposit	
Paycheck	03/02/2023	dd13330	Direct Deposit	
Paycheck	03/02/2023	dd13331	Direct Deposit	
Paycheck	03/02/2023	dd13332	Direct Deposit	
Paycheck	03/02/2023	dd13333	Direct Deposit	
Paycheck	03/02/2023	dd13334	Direct Deposit	
Paycheck	03/02/2023	dd13335	Direct Deposit	
Paycheck	03/02/2023	dd13336	Direct Deposit	
Paycheck	03/02/2023	dd13337	Direct Deposit	
Paycheck	03/02/2023	dd13338	Direct Deposit	
Paycheck	03/02/2023	dd13339	Direct Deposit	
Paycheck	03/02/2023	dd13340	Direct Deposit	
Paycheck	03/02/2023	dd13341	Direct Deposit	
Paycheck	03/02/2023	dd13342	Direct Deposit	
Paycheck	03/02/2023	dd13343	Direct Deposit	
Paycheck	03/02/2023	dd13344	Direct Deposit	
Paycheck	03/02/2023	dd13345	Direct Deposit	
Paycheck	03/02/2023	dd13346	Direct Deposit	
Paycheck	03/02/2023	dd13347	Direct Deposit	
Paycheck	03/02/2023	dd13348	Direct Deposit	
Paycheck	03/17/2023	dd13349	Direct Deposit	
Paycheck	03/16/2023	dd13350	Direct Deposit	
Paycheck	03/16/2023	dd13351	Direct Deposit	
Paycheck	03/16/2023	dd13352	Direct Deposit	
Paycheck	03/16/2023	dd13353	Direct Deposit	
Paycheck	03/16/2023	dd13354	Direct Deposit	
Paycheck	03/16/2023	dd13355	Direct Deposit	
Paycheck	03/16/2023	dd13356	Direct Deposit	
Paycheck	03/16/2023	dd13357	Direct Deposit	
Paycheck	03/16/2023	dd13358	Direct Deposit	
Paycheck	03/16/2023	dd13359	Direct Deposit	

IRMCD
Monthly Board Disbursement Report
 As of March 31, 2023

Type	Date	Num	Memo	Credit
Paycheck	03/16/2023	dd13360	Direct Deposit	
Paycheck	03/16/2023	dd13361	Direct Deposit	
Paycheck	03/16/2023	dd13362	Direct Deposit	
Paycheck	03/16/2023	dd13363	Direct Deposit	
Paycheck	03/16/2023	dd13364	Direct Deposit	
Paycheck	03/16/2023	dd13365	Direct Deposit	
Paycheck	03/16/2023	dd13366	Direct Deposit	
Paycheck	03/16/2023	dd13367	Direct Deposit	
Paycheck	03/16/2023	dd13368	Direct Deposit	
Paycheck	03/16/2023	dd13369	Direct Deposit	
Paycheck	03/16/2023	dd13370	Direct Deposit	
Paycheck	03/16/2023	dd13371	Direct Deposit	
Paycheck	03/16/2023	dd13372	Direct Deposit	
Paycheck	03/16/2023	dd13373	Direct Deposit	
Paycheck	03/16/2023	dd13374	Direct Deposit	
Paycheck	03/16/2023	dd13375	Direct Deposit	
Paycheck	03/16/2023	dd13376	Direct Deposit	
Paycheck	03/16/2023	dd13377	Direct Deposit	
Paycheck	03/16/2023	dd13378	Direct Deposit	
Paycheck	03/17/2023	dd13379	Direct Deposit	
Paycheck	03/17/2023	dd13380	Direct Deposit	
Paycheck	03/17/2023	dd13381	Direct Deposit	
Paycheck	03/17/2023	dd13382	Direct Deposit	
Paycheck	03/30/2023	dd13383	Direct Deposit	
Paycheck	03/30/2023	dd13384	Direct Deposit	
Paycheck	03/30/2023	dd13385	Direct Deposit	
Paycheck	03/30/2023	dd13386	Direct Deposit	
Paycheck	03/30/2023	dd13387	Direct Deposit	
Paycheck	03/30/2023	dd13388	Direct Deposit	
Paycheck	03/30/2023	dd13389	Direct Deposit	
Paycheck	03/30/2023	dd13390	Direct Deposit	
Paycheck	03/30/2023	dd13391	Direct Deposit	
Paycheck	03/30/2023	dd13392	Direct Deposit	
Paycheck	03/30/2023	dd13393	Direct Deposit	
Paycheck	03/30/2023	dd13394	Direct Deposit	
Paycheck	03/30/2023	dd13395	Direct Deposit	
Paycheck	03/30/2023	dd13396	Direct Deposit	
Paycheck	03/30/2023	dd13397	Direct Deposit	
Paycheck	03/30/2023	dd13398	Direct Deposit	
Paycheck	03/30/2023	dd13399	Direct Deposit	
Paycheck	03/30/2023	dd13400	Direct Deposit	
Paycheck	03/30/2023	dd13401	Direct Deposit	
Paycheck	03/30/2023	dd13402	Direct Deposit	
Paycheck	03/30/2023	dd13403	Direct Deposit	

Monthly Board Disbursement Report

As of March 31, 2023

Type	Date	Num	Memo	Credit
Paycheck	03/30/2023	dd13404	Direct Deposit	
Paycheck	03/30/2023	dd13405	Direct Deposit	
Paycheck	03/30/2023	dd13406	Direct Deposit	
Paycheck	03/30/2023	dd13407	Direct Deposit	
Paycheck	03/30/2023	dd13408	Direct Deposit	
Paycheck	03/30/2023	dd13409	Direct Deposit	
Paycheck	03/30/2023	dd13410	Direct Deposit	
Paycheck	03/30/2023	dd13411	Direct Deposit	
Total 1050 Seacoast Oper-4941 & 9831				0.00
1070 RBC Operating Acct				
Total 1070 RBC Operating Acct				0.00
TOTAL				0.00

IRMCD
Custom Transaction Detail Report
March 2023

7:14 AM
04/04/23
Accrual Basis

Column1	Column2	Column3	Column4	Column5	Column6	Column8	Column8
Type	Date	Num	Name	Memo	Account	Amount	Amount
Check	03/01/2023	14581	Cleaning By Mina, LLC	Inv # 57	1050 Seacoast Oper-4941 & 9831	1,003.10	1,003.10
Check	03/01/2023	14581	Cleaning By Mina, LLC	Inv # 57 Mar 2023 Maintenance cleaning	30.4.1 Other Prof Svcs/Janitor	1,003.10	1,003.10
Check	03/01/2023	14582	Cintas Corporation No. 2	Player # 14087358 Inv # 4147362848	1050 Seacoast Oper-4941 & 9831	419.58	419.58
Check	03/01/2023	14582	Cintas Corporation No. 2	Player # 14087358 Inv # 4147362848 2/22/23 Uniform Services	30.4.2 Other Prof Svcs/Uniforms	419.58	419.58
Check	03/01/2023	14583	David Healing & Air Conditioning	Inv # 3950	1050 Seacoast Oper-4941 & 9831	650.00	650.00
Check	03/01/2023	14593	David Healing & Air Conditioning	Inv # 3950 Replaced evaporator coil in air handler under warranty (parts), ck system for pressur...	46.1.1 Buildings-Other	650.00	650.00
Check	03/01/2023	14594	Florida Heart CPR	Inv # 3645	1050 Seacoast Oper-4941 & 9831	1,069.00	1,069.00
Check	03/01/2023	14594	Florida Heart CPR	Inv # 3645 ASHI First Aid/CPR/AED adult and pediatric training for 23 staff	55.2 Training (Training, core exam, Public Health exam)	999.00	999.00
Check	03/01/2023	14594	Florida Heart CPR	Inspect and service defibrillator	51.1 Office Supplies (include AT&T advertising)	80.00	80.00
Check	03/01/2023	14585	Jordan Power Equipment Corp.	Inv # 112065, Inv # 112344, Inv # 112089	1050 Seacoast Oper-4941 & 9831	125.88	125.88
Check	03/01/2023	14585	Jordan Power Equipment Corp.	Inv # 112065, Inv # 112344, Inv # 112089 (2) ignition switches for ULV spray motors, (5) clip c...	52.4.4 Suppl ULV (includes mosquito magnet supplies)	125.88	125.88
Check	03/01/2023	14586	Mullinax Ford of Vero Beach	Inv # 140464	1050 Seacoast Oper-4941 & 9831	121.00	121.00
Check	03/01/2023	14586	Mullinax Ford of Vero Beach	Inv # 140464 Fuel tank lines - Truck 262	46.6.1 Truck/Auto/ATV-IRMCD	121.00	121.00
Check	03/01/2023	14587	John Deere Financial	Inv # 127086266-001	1050 Seacoast Oper-4941 & 9831	244.54	244.54
Check	03/01/2023	14587	John Deere Financial	Inv # 127086266-001 (2) 50lb bags winter tyre grass to seed levers	46.5.3 Dikes-IRMCD	244.54	244.54
Check	03/01/2023	14588	Vero Chemical Distributors Inc	Inv # 330624	1050 Seacoast Oper-4941 & 9831	31.80	31.80
Check	03/01/2023	14588	Vero Chemical Distributors Inc	Inv # 330624 (2) 1 gallon containers of acetone	1050 Seacoast Oper-4941 & 9831	31.80	31.80
Liability Check	03/01/2023		QuickBooks Payroll Service	Created by Payroll Service on 02/27/2023	1050 Seacoast Oper-4941 & 9831	50,862.19	50,862.19
Liability Check	03/01/2023		QuickBooks Payroll Service	Created by Payroll Service on 02/27/2023	2111 Direct Deposit Liabilities	50,862.19	50,862.19
Check	03/01/2023	14589	CIT-Copier Contract	Inv # 41846474	1050 Seacoast Oper-4941 & 9831	199.23	199.23
Check	03/01/2023	14589	CIT-Copier Contract	Inv # 41846474 February 2023 Monthly copier/printer lease pymt	44.1.2 Misc Rentals/Leases	199.23	199.23
Check	03/01/2023	14590	Indian River Contracting, LLC	Inv # 19754, Inv # 19735	1050 Seacoast Oper-4941 & 9831	26,460.66	26,460.66
Check	03/01/2023	14590	Indian River Contracting, LLC	Inv # 19754, Inv # 19735 581.52 tons of Coquina rock - Middle Bills	46.5.3 Dikes-IRMCD	26,460.66	26,460.66
Check	03/01/2023	14590	Indian River Contracting, LLC	Inv # 19735 758.26 tons Coquina rock - Middle Bills	46.5.3 Dikes-IRMCD	14,975.64	14,975.64
Check	03/01/2023	14591	R&S Metalworks & Co	Inv # 9605	1050 Seacoast Oper-4941 & 9831	1,800.00	1,800.00
Check	03/01/2023	14591	R&S Metalworks & Co	Inv # 9605 Vickers pump - pull & transport to MWI for repairs, Morgan Station - R&R zincs, Sandr...	46.4.2 Pump Rpr-Others	1,800.00	1,800.00
Check	03/01/2023	14592	Staples Advantage	Act # ATL1067547 Inv # 8069320761	1050 Seacoast Oper-4941 & 9831	120.24	120.24
Check	03/01/2023	14592	Staples Advantage	Act # ATL1067547 Inv # 8069320761 Sharpie black fine, black pens, cop...	51.1 Office Supplies (include AT&T advertising)	120.24	120.24
Liability Check	03/02/2023	EFT	Child Support		1050 Seacoast Oper-4941 & 9831	507.39	507.39
Liability Check	03/02/2023	EFT	Child Support		2006 Payroll Liabilities	507.39	507.39
Liability Check	03/03/2023	EFT	IRMCD-FICA,SS,Med	59-6001309	1050 Seacoast Oper-4941 & 9831	17,209.00	17,209.00
Liability Check	03/03/2023	EFT	IRMCD-FICA,SS,Med	59-6001309	2006 Payroll Liabilities	17,209.00	17,209.00
Liability Check	03/03/2023	EFT	IRMCD-FICA,SS,Med	59-6001309	1050 Seacoast Oper-4941 & 9831	6,724.50	6,724.50
Liability Check	03/03/2023	EFT	IRMCD-FICA,SS,Med	59-6001309	2006 Payroll Liabilities	6,724.50	6,724.50
Liability Check	03/03/2023	EFT	IRMCD-FICA,SS,Med	59-6001309	1050 Seacoast Oper-4941 & 9831	993.64	993.64
Liability Check	03/03/2023	EFT	IRMCD-FICA,SS,Med	59-6001309	2006 Payroll Liabilities	993.64	993.64
Liability Check	03/03/2023	EFT	IRMCD-FICA,SS,Med	59-6001309	1050 Seacoast Oper-4941 & 9831	4,248.61	4,248.61
Liability Check	03/03/2023	EFT	IRMCD-FICA,SS,Med	59-6001309	2006 Payroll Liabilities	4,248.61	4,248.61
Liability Check	03/03/2023	EFT	Nationwide Retirement Solutions, Inc.	0025223001	1050 Seacoast Oper-4941 & 9831	1,296.72	1,296.72
Liability Check	03/03/2023	EFT	Nationwide Retirement Solutions, Inc.	0025223001	2006 Payroll Liabilities	1,296.72	1,296.72
Liability Check	03/03/2023	EFT	Nationwide Retirement Solutions, Inc.	0025223001	1050 Seacoast Oper-4941 & 9831	520.00	520.00
Liability Check	03/03/2023	EFT	Nationwide Retirement Solutions, Inc.	0025223001	2006 Payroll Liabilities	520.00	520.00
Liability Check	03/03/2023	EFT	Florida Retirement System	420000041009- February 2023 Contributions	1050 Seacoast Oper-4941 & 9831	24,255.20	24,255.20
Liability Check	03/03/2023	EFT	Florida Retirement System	420000041009- February 2023 Contributions	2006 Payroll Liabilities	24,255.20	24,255.20
Liability Check	03/03/2023	EFT	Florida Retirement System	420000041009- February 2023 Contributions	1050 Seacoast Oper-4941 & 9831	4,345.64	4,345.64
Liability Check	03/03/2023	EFT	Florida Retirement System	420000041009- February 2023 Contributions	2006 Payroll Liabilities	4,345.64	4,345.64
Check	03/03/2023	14593	FMIT	FMIT #0273 Inv # INV-37804-WH3 22-23 Gen/Auto/Property 3rd installment - 22-23	1050 Seacoast Oper-4941 & 9831	26,729.00	26,729.00
Check	03/03/2023	14593	FMIT	FMIT #0273 Inv # INV-37804-WH3 22-23 Gen/Auto/Property 3rd installment - 22-23	45.1 Insurance	18,375.25	18,375.25
Check	03/03/2023	14593	FMIT	FMIT #0273 Inv # INV-37804-WH3 22-23 Gen/Auto/Property 3rd installment - 22-23	20.4 Worker's Compensation	8,153.75	8,153.75
Check	03/03/2023	14593	FMIT	FMIT #0273 Inv # INV-37804-WH3 22-23 Gen/Auto/Property 3rd installment - 22-23	1050 Seacoast Oper-4941 & 9831	15,872.31	15,872.31
Check	03/08/2023	14594	MasterCard	Act # 1603 - Statement Closing Date 2/27/2023	30.2.2 Direct Deposit Fees	155.00	155.00
Check	03/08/2023	14594	MasterCard	Act # 1603 - Statement Closing Date 2/27/2023	1315 Prepaid SunPass	25.00	25.00
Check	03/08/2023	14594	MasterCard	Act # 1603 - Statement Closing Date 2/27/2023	40.1 Travel & Per Diem (Include Registrations)	8,231.23	8,231.23
Check	03/08/2023	14594	MasterCard	Act # 1603 - Statement Closing Date 2/27/2023	40.2.1 Registrations (PMCA, AMCA Registration Fees (Dodd goes to Act 55.2))	15.00	15.00
Check	03/08/2023	14594	MasterCard	Act # 1603 - Statement Closing Date 2/27/2023	41.1 Communication Services	9.90	9.90
Check	03/08/2023	14594	MasterCard	Act # 1603 - Statement Closing Date 2/27/2023	46.0.10 Maint by Others	125.00	125.00
Check	03/08/2023	14594	MasterCard	Act # 1603 - Statement Closing Date 2/27/2023	46.5.3 Dikes-IRMCD	2,194.50	2,194.50
Check	03/08/2023	14594	MasterCard	Act # 1603 - Statement Closing Date 2/27/2023	46.6.1 Truck/Auto/ATV-IRMCD	75.45	75.45
Check	03/08/2023	14594	MasterCard	Act # 1603 - Statement Closing Date 2/27/2023	48.1 Prom/Educational Activ	718.15	718.15
Check	03/08/2023	14594	MasterCard	Act # 1603 - Statement Closing Date 2/27/2023	51.1 Office Supplies (include AT&T advertising)	520.74	520.74
Check	03/08/2023	14594	MasterCard	Act # 1603 - Statement Closing Date 2/27/2023	51.2 Computer Software	1,312.21	1,312.21
Check	03/08/2023	14594	MasterCard	Act # 1603 - Statement Closing Date 2/27/2023	51.3 Computer Hardware	14.64	14.64

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Check	03/08/2023	14594	MasterCard	gas - travel from Dodd	52.1.2 Gas & Diesel	282.97
Check	03/08/2023	14594	MasterCard	Methoprene	52.2.14 Allosid/Methoprene (Liquid Inavicide that we mix w/sand and apply by air)	125.00
Check	03/08/2023	14594	MasterCard	Permethrin	52.2.19 Permethrin/Permethrin (Liquid adulticide applied by ULV trucks or backpack sprayer)	83.50
Check	03/08/2023	14594	MasterCard	Spinosad, Etofenprox	52.2.23 Misc Chemicals	350.00
Check	03/08/2023	14594	MasterCard	steel lee boots - TH	52.3 Protective Clothing (Every form of PPD i.e. safety glasses, boots, raincoats, gloves)	134.95
Check	03/08/2023	14594	MasterCard	2 luryk basters, Plocam cups, ocean salt, rabbit food	52.4.3 Sipi Research-General	187.82
Check	03/08/2023	14594	MasterCard	3 stantler solenoids for ULV trucks	52.4.4 Sipi ULV (Includes mosquito magnet supplies)	70.05
Check	03/08/2023	14594	MasterCard	Hapimp trail camera, 32g SD card, Purina homegrownpellets chicken feed	52.4.5 Sipi Abovorus (Includes tide gauge materials, CDC light traps, cloths for collection cups)	366.52
Check	03/08/2023	14594	MasterCard	Industrial Endoscope, plug repair kit, 18 padlocks	52.5 Tools & Small Implements (Cost of less than \$1000 and expected life of 1 year or more)	478.96
Check	03/08/2023	14594	MasterCard	UFIFAS Living Shoreline Course - BL, FT, JT & Aquatic Weed Control Short Course - SB	55.2 Training (Training, core exam, Public Health exam)	425.00
Check	03/08/2023	14595	Board of County Commissioners	Inv # 22/28/2023	1050 Seacoast Oper-4941 & 9831	4,798.11
Check	03/08/2023	14595	Board of County Commissioners	Inv # 22/28/2023 Fuel charges for Feb 2023 Unleaded \$3.00/gal Diesel \$3.87/gal	52.1.2 Gas & Diesel	4,798.11
Check	03/08/2023	14596	Carr, Riggs & Ingram LLC	Inv # 17528654	1050 Seacoast Oper-4941 & 9831	1,200.00
Check	03/08/2023	14596	Carr, Riggs & Ingram LLC	Inv # 17528654 Final payment for Audit of Financial Statements Period ending September 30, 2022	30.2 Auditor	1,200.00
Check	03/08/2023	14597	Cintas Corporation No. 2	Player # 14087358 Inv # 4148066436	1050 Seacoast Oper-4941 & 9831	419.58
Check	03/08/2023	14597	Cintas Corporation No. 2	Player # 14087358 Inv # 4148066436 3/01/23 Uniform Services	30.4.2 Other Prod Svc/Uniforms	419.58
Check	03/08/2023	14598	Waste Management, Inc of Florida	Customer # 9-18548-52001 Inv # 1004032-4835-6, Customer # 13-91132-63000 Inv # 1004359-4835-9	1050 Seacoast Oper-4941 & 9831	217.67
Check	03/08/2023	14598	Waste Management, Inc of Florida	Customer # 9-18548-52001 Inv # 1004032-4835-6 Dumpster Weekly Service Mar 2022	43.1 Utility Services	136.50
Check	03/08/2023	14598	Waste Management, Inc of Florida	Customer # 13-91132-63000 Inv # 1004359-4835-9 Recycle Weekly Service Mar 2022	43.1 Utility Services	81.17
Check	03/15/2023	14599	Cole Auto Supply	Act # 1642 Closing Date 2/28/2023	1050 Seacoast Oper-4941 & 9831	1,086.13
Check	03/15/2023	14599	Cole Auto Supply	Act # 1642 Closing Date 2/28/2023 brake cleaner, JB Weld	46.0.20 Maint by IRMCD	51.37
Check	03/15/2023	14599	Cole Auto Supply	PB Blasters, Elec compound, elec cleaners, screws, fan clutch, platinum s/p lug, coil boot, water...	46.6.1 Truck/Auto/ATV-IRMCD	464.09
Check	03/15/2023	14599	Cole Auto Supply	boat oil fillers, battery for SeaArk # 3 - Tim's boat	46.6.3 Heavy Eqpl/Boats-IRMCD	135.08
Check	03/15/2023	14599	Cole Auto Supply	case SAE 30 oil, 10 tubes of grease	52.1.1 Oil & Lubricants	169.38
Check	03/15/2023	14599	Cole Auto Supply	3 hi amp flush mount fuses	52.4.4 Sipi ULV (Includes mosquito magnet supplies)	158.22
Check	03/15/2023	14600	Fisher Scientific Co. LLC	air grease gun	52.5 Tools & Small Implements (Cost of less than \$1000 and expected life of 1 year or more)	117.99
Check	03/15/2023	14600	Fisher Scientific Co. LLC	Act # 212441-001 Inv # 0679930	1050 Seacoast Oper-4941 & 9831	73.61
Check	03/15/2023	14601	Home Depot Credit Services	Act # 212441-001 Inv # 0679930 vac tubes	52.4.5 Sipi Abovorus (Includes tide gauge materials, CDC light traps, cloths for collection cups)	73.61
Check	03/15/2023	14601	Home Depot Credit Services	Act # 6035322501565166 Inv # 5087124	1050 Seacoast Oper-4941 & 9831	59.97
Check	03/15/2023	14601	Home Depot Credit Services	Act # 6035322501565166 Inv # 5087124 Digital tower space heater for insectary	52.4.3 Sipi Research-General	59.97
Check	03/15/2023	14602	Indian River Contracting, LLC	Inv # 19787	1050 Seacoast Oper-4941 & 9831	6,512.37
Check	03/15/2023	14602	Indian River Contracting, LLC	Inv # 19787 329.74 tons Coquina rock - Middle Bills - Hurricane Nicole	46.5.3 Dikes-IRMCD	6,512.37
Check	03/15/2023	14603	Staples Advantage	Act # ATL1067547 Inv # 8069400919 Hanging file folder frames, laminating pouches, Post-it tabs	1050 Seacoast Oper-4941 & 9831	77.13
Check	03/15/2023	14604	Cintas Corporation No. 2	Player # 14087358 Inv # 4148752095	51.1 Office Supplies (Include AT&T advertising)	77.13
Check	03/15/2023	14604	Cintas Corporation No. 2	Player # 14087358 Inv # 4148752095 3/08/23 Uniform Services	1050 Seacoast Oper-4941 & 9831	419.58
Check	03/15/2023	14605	McMaster-Carr Supply Co	Inv # 94075781	30.4.2 Other Prod Svc/Uniforms	419.58
Check	03/15/2023	14605	McMaster-Carr Supply Co	Inv # 94075781 50ft coated 1/4" wire rope for Bill's pump	1050 Seacoast Oper-4941 & 9831	275.83
Check	03/15/2023	14606	Lowe's	Act # 2096 Inv # 967672, Inv # 915794, Inv # 967161	46.6.2 Pumps-IRMCD	275.83
Check	03/15/2023	14606	Lowe's	Act # 2096 Inv # 967672 screen spline for insectary	1050 Seacoast Oper-4941 & 9831	164.33
Check	03/15/2023	14606	Lowe's	Inv # 915794 3M Cool Flow Respirator for mixer use - BL	52.3 Protective Clothing (Every form of PPD i.e. safety glasses, boots, raincoats, gloves)	4.74
Check	03/15/2023	14606	Lowe's	Inv # 967161 Shop vacuum for island out back	46.5.2 Grounds-IRMCD	113.05
Check	03/15/2023	14607	AT&T	Act # 77256223930870454 - Local/Long Distance Mar 2023	1050 Seacoast Oper-4941 & 9831	263.27
Check	03/15/2023	14607	AT&T	Act # 77256223930870454 - Local/Long Distance Mar 2023	41.1 Communication Services	263.27
Check	03/15/2023	14608	AT&T Mobility	Act # 823540712 Invoice # 823540712X03122023 Cellular Service	41.1 Communication Services	821.08
Check	03/15/2023	14608	AT&T Mobility	Act # 823540712 Invoice # 823540712X03122023 Cellular Service	41.1 Communication Services	2,128.87
Check	03/15/2023	14609	Indian River Contracting, LLC	Inv # 19786	1050 Seacoast Oper-4941 & 9831	821.08
Check	03/15/2023	14609	Indian River Contracting, LLC	Inv # 19786 41.45 tons 57 rock - delivered to IRMCD wash station	46.5.2 Grounds-IRMCD	2,128.87
Liability Check	03/15/2023		QuickBooks Payroll Service	Created by Payroll Service on 03/14/2023	1050 Seacoast Oper-4941 & 9831	51,608.47
Liability Check	03/15/2023		QuickBooks Payroll Service	Created by Payroll Service on 03/14/2023	2111 Direct Deposit Liabilities	51,608.47
Liability Check	03/16/2023		QuickBooks Payroll Service	Created by Payroll Service on 03/09/2023	1050 Seacoast Oper-4941 & 9831	144.00
Liability Check	03/16/2023		QuickBooks Payroll Service	Created by Payroll Service on 03/09/2023	2111 Direct Deposit Liabilities	144.00
Liability Check	03/16/2023		Child Support	Child Support	1050 Seacoast Oper-4941 & 9831	507.39
Liability Check	03/16/2023		Child Support	Child Support	2006 Payroll Liabilities	507.39
Liability Check	03/16/2023		QuickBooks Payroll Service	Created by Payroll Service on 03/15/2023	1050 Seacoast Oper-4941 & 9831	761.36
Liability Check	03/17/2023		IRMCD-FICA, SS, Med	59-6001309	2111 Direct Deposit Liabilities	17,889.42
Liability Check	03/17/2023		IRMCD-FICA, SS, Med	59-6001309	1050 Seacoast Oper-4941 & 9831	17,889.42
Liability Check	03/17/2023		IRMCD-FICA, SS, Med	59-6001309	2006 Payroll Liabilities	7,112.50
Liability Check	03/17/2023		IRMCD-FICA, SS, Med	59-6001309	2006 Payroll Liabilities	1,021.33
Liability Check	03/17/2023		IRMCD-FICA, SS, Med	59-6001309	2006 Payroll Liabilities	1,021.33
Liability Check	03/17/2023		IRMCD-FICA, SS, Med	59-6001309	2006 Payroll Liabilities	4,367.13

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Transaction Date	Transaction Description	Account	Amount
03/17/2023	IRMCD-FICA, SS, Med	59-6001309	4,367.13
03/17/2023	Nationwide Retirement Solutions, Inc.	0025223001	1,646.72
03/17/2023	Nationwide Retirement Solutions, Inc.	0025223001	770.00
03/17/2023	Nationwide Retirement Solutions, Inc.	0025223001	770.00
03/22/2023	Cintas Corporation No. 2	Player # 14087358 Inv # 4149472630, Inv # 4150180330	639.16
03/22/2023	Cintas Corporation No. 2	Player # 14087358 Inv # 4149472630 03/15/2023 Uniform Services	419.58
03/22/2023	Indian River Contracting, LLC	Inv # 19810, Inv # 19811, Inv # 19831	2,027.50
03/22/2023	Indian River Contracting, LLC	Inv # 19810 102.52 tons of Coquina rock for North Bills - Hurricane Nicole	839.16
03/22/2023	Indian River Contracting, LLC	Inv # 19811 261.5 tons of Coquina rock for South Bills - Hurricane Nicole	2,024.77
03/22/2023	Indian River County Utilities	Cust # 0012218-062300 Bill # 11375902	5,164.63
03/22/2023	Indian River County Utilities	Cust # 0012218-062300 Bill # 11375902 Water service 2/06/2023-3/06/2023	38.05
03/22/2023	Lewis, Longman, & Walker P.A.	Inv # JDR-151404	4,885.37
03/22/2023	Lewis, Longman, & Walker P.A.	Inv # JDR-151404 Review, prepare, and attend interview of Complainant, prepare reports, meeting	4,885.37
03/22/2023	McMaster-Carr Supply Co	Inv # 94336126	4,119.27
03/22/2023	McMaster-Carr Supply Co	Inv # 94336126 materials to build field cages # 7, 8, & 9	4,119.27
03/22/2023	Thomas R. Summersill, Inc	Inv # 03872-M23-APL, Inv # 03877-M23-APL, Inv # 03893-M23-APL	26,659.29
03/22/2023	Thomas R. Summersill, Inc	Inv # 03872-M23-APL Aerial Laticiding 3/11/2023	4,230.60
03/22/2023	Thomas R. Summersill, Inc	Inv # 03877-M23-APL Aerial laticiding 3/11/2023	3,205.18
03/22/2023	Homeland Irrigation Center	Inv # 274712 & Inv # 27413	483.98
03/22/2023	Homeland Irrigation Center	Inv # 274712 & Inv # 27413 parts for fabrication of field cages 7, 8, & 9	483.98
03/22/2023	Comcast	Act # 8535115060598219	405.80
03/22/2023	Comcast	Act # 8535115060598219 Internet services 3/27/2023-4/26/2023	405.80
03/22/2023	Shoe Carnival, Inc.	Inv # 363011, Inv # 307441	304.94
03/22/2023	Shoe Carnival, Inc.	Inv # 363011 Safety boots - DL	114.98
03/22/2023	Shoe Carnival, Inc.	Inv # 307441 Safety boots - MH	189.96
03/22/2023	Indian River Contracting, LLC	Inv # 19831 660.53 tons of Coquina rock for Oyster Bar	13,638.10
03/22/2023	Thomas R. Summersill, Inc	Inv # 03893-M23-APL Aerial Laticiding 3/16/2023	19,223.51
03/22/2023	MWI Pumps	Inv # VB001840, Inv # VB001839	5,343.11
03/22/2023	MWI Pumps	Inv # VB001840 Vickers 10" pump repair & service	2,405.88
03/22/2023	MWI Pumps	Inv # VB001839 Sandpoint 1" pump repair & service	2,937.23
03/22/2023	Cintas Corporation No. 2	Player # 14087358 Inv # 4150180330 03/22/2023 Uniform Services	1,003.10
03/22/2023	Cleaning By Mins, LLC	Inv # 58	1,003.10
03/22/2023	Cleaning By Mins, LLC	Inv # 58 Apr 2023 Maintenance cleaning	1,003.10
03/22/2023	Goodyear Auto Service #6626	Inv # 0000042	178.38
03/22/2023	Goodyear Auto Service #6626	Inv # 0000042566 Replace tire on lk 266	178.38
03/22/2023	FPL	Act # 90168-13504	1,315.64
03/22/2023	FPL	Act # 90168-13504 3/20/2023 Shop/Office	1,011.19
03/22/2023	FPL	Act # 90168-13504 3/20/2023 Electric Pumps	304.45
03/24/2023	American Fidelity-Products	MCP#64213 Inv#D567786 March 2023 Premiums	2,884.04
03/24/2023	American Fidelity-Products	MCP#64213 Inv#D567786 March 2023 Premiums	119.26
03/24/2023	American Fidelity-Products	MCP#64213 Inv#D567786 March 2023 Premiums	582.80
03/24/2023	American Fidelity-Products	MCP#64213 Inv#D567786 March 2023 Premiums	372.70
03/24/2023	American Fidelity-Products	MCP#64213 Inv#D567786 March 2023 Premiums	141.70
03/24/2023	American Fidelity-Products	MCP#64213 Inv#D567786 March 2023 Premiums	81.94
03/24/2023	American Fidelity-Products	MCP#64213 Inv#D567786 March 2023 Premiums	306.04
03/24/2023	FMIT	FH0273 March 2023 Contributions/ April 2023 Premiums	43,689.12
03/24/2023	FMIT	FH0273 March 2023 Contributions/ April 2023 Premiums	280.00
03/24/2023	FMIT	FH0273 March 2023 Contributions/ April 2023 Premiums	371.50
03/24/2023	FMIT	FH0273 March 2023 Contributions/ April 2023 Premiums	114.48
03/24/2023	FMIT	FH0273 March 2023 Contributions/ April 2023 Premiums	279.60
03/24/2023	FMIT	FH0273 March 2023 Contributions/ April 2023 Premiums	142.26
03/24/2023	FMIT	FH0273 March 2023 Contributions/ April 2023 Premiums	349.09
03/24/2023	FMIT	FH0273 March 2023 Contributions/ April 2023 Premiums	218.58
03/24/2023	FMIT	FH0273 March 2023 Contributions/ April 2023 Premiums	564.12
03/24/2023	FMIT	FH0273 March 2023 Contributions/ April 2023 Premiums	553.30
03/24/2023	FMIT	FH0273 March 2023 Contributions/ April 2023 Premiums	698.20
03/24/2023	FMIT	FH0273 March 2023 Contributions/ April 2023 Premiums	334.73
03/24/2023	FMIT	FH0273 March 2023 Contributions/ April 2023 Premiums	995.82
03/24/2023	FMIT	FH0273 March 2023 Contributions/ April 2023 Premiums	384.96

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Transaction Type	Transaction Date	Transaction Description	Amount
Liability Check	03/24/2023	14623 FMIT	156.54
Liability Check	03/24/2023	14623 FMIT	22.03
Liability Check	03/24/2023	14623 FMIT	65.60
Liability Check	03/24/2023	14623 FMIT	36.90
Liability Check	03/24/2023	14623 FMIT	44.08
Liability Check	03/24/2023	14623 FMIT	12.10
Liability Check	03/24/2023	14623 FMIT	456.32
Check	03/24/2023	14623 FMIT	456.32
Check	03/24/2023	14623 FMIT	818.44
Check	03/24/2023	14623 FMIT	818.44
Check	03/24/2023	14623 FMIT	38,075.23
Check	03/29/2023	14624 I.R.C. Property Appraiser	19,039.00
Check	03/29/2023	14624 I.R.C. Property Appraiser	19,039.00
Liability Check	03/29/2023	14624 I.R.C. Property Appraiser	55,991.42
Liability Check	03/29/2023	14624 I.R.C. Property Appraiser	55,991.42
Check	03/29/2023	14624 I.R.C. Property Appraiser	5,725.20
Check	03/29/2023	14624 I.R.C. Property Appraiser	17,176.73
Check	03/29/2023	14624 I.R.C. Property Appraiser	17,176.73
Check	03/29/2023	14624 I.R.C. Property Appraiser	34.00
Check	03/29/2023	14624 I.R.C. Property Appraiser	34.00
Check	03/29/2023	14624 I.R.C. Property Appraiser	199.23
Check	03/29/2023	14624 I.R.C. Property Appraiser	199.23
Check	03/29/2023	14624 I.R.C. Property Appraiser	40.00
Check	03/29/2023	14624 I.R.C. Property Appraiser	40.00
Check	03/29/2023	14624 I.R.C. Property Appraiser	217.67
Check	03/29/2023	14624 I.R.C. Property Appraiser	136.50
Check	03/29/2023	14624 I.R.C. Property Appraiser	81.17
Check	03/29/2023	14624 I.R.C. Property Appraiser	11,692.06
Check	03/29/2023	14624 I.R.C. Property Appraiser	155.00
Check	03/29/2023	14624 I.R.C. Property Appraiser	3,177.05
Check	03/29/2023	14624 I.R.C. Property Appraiser	75.00
Check	03/29/2023	14624 I.R.C. Property Appraiser	162.81
Check	03/29/2023	14624 I.R.C. Property Appraiser	21.36
Check	03/29/2023	14624 I.R.C. Property Appraiser	5.68
Check	03/29/2023	14624 I.R.C. Property Appraiser	107.36
Check	03/29/2023	14624 I.R.C. Property Appraiser	0.00
Check	03/29/2023	14624 I.R.C. Property Appraiser	627.92
Check	03/29/2023	14624 I.R.C. Property Appraiser	603.51
Check	03/29/2023	14624 I.R.C. Property Appraiser	36.98
Check	03/29/2023	14624 I.R.C. Property Appraiser	282.39
Check	03/29/2023	14624 I.R.C. Property Appraiser	252.00
Check	03/29/2023	14624 I.R.C. Property Appraiser	4,883.87
Check	03/29/2023	14624 I.R.C. Property Appraiser	179.70
Check	03/29/2023	14624 I.R.C. Property Appraiser	187.85
Check	03/29/2023	14624 I.R.C. Property Appraiser	6.62
Check	03/29/2023	14624 I.R.C. Property Appraiser	179.00
Check	03/29/2023	14624 I.R.C. Property Appraiser	25.00
Liability Check	03/30/2023	EFT	99.99
Liability Check	03/30/2023	EFT	99.99
Liability Check	03/12/2023	EFT	862.05
Liability Check	03/12/2023	EFT	862.05
Liability Check	03/12/2023	EFT	19,999.59
Liability Check	03/12/2023	EFT	7,646.50
Liability Check	03/12/2023	EFT	1,072.08
Liability Check	03/12/2023	EFT	1,072.08
Liability Check	03/12/2023	EFT	4,583.96
Liability Check	03/12/2023	EFT	4,583.96
Liability Check	03/12/2023	EFT	1,646.72

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Liability Check	03/31/2023	EFT	Nationwide Retirement Solutions, Inc.	0025223001	2006 Payroll Liabilities	1,646.72
Liability Check	03/31/2023	EFT	Nationwide Retirement Solutions, Inc.	0025223001	1050 Seacoast Oper-4941 & 9831	770.00
Liability Check	03/31/2023	EFT	Nationwide Retirement Solutions, Inc.	0025223001	2006 Payroll Liabilities	770.00
						<u>112,028.41</u>
						<u>112,028.41</u>

MASTERCARD 02/23 STATEMENT

30.2.2 Direct Deposit Fees		52.1.1 Subscriptions	
\$155.00	Intuit QB Payroll monthly per usage fee		
\$155.00			
1315 Sunpass			
\$25.00	Dodd - Sunpass		
		\$0.00	
\$25.00			
40.1 Travel/ Per Diem		52.1.2 Gas	
\$429.00	Dodd - Hilton x 3 nights JR, FC	\$104.05	Gas coming back from Dodd -Shell & Exxon
\$286.00	Dodd - Hilton x 2 nights LTR	\$35.19	Wawa -Dodd
\$286.00	Dodd - Hilton x 2 nights BC & CP	\$92.23	Shell - Dodd
\$429.00	Dodd - Hilton x 3 nights JS & JT	\$51.50	Shell - Dodd
\$143.00	Dodd - Hilton - MH		
\$429.00	Dodd - Hilton x 3 nights HW		
\$429.00	Dodd - Hilton x 3 nights SM		
\$286.00	Dodd - Hilton x 2 nights SB		
\$286.00	Dodd - Hilton - Commissioners		
\$4,942.23	Flights for AMCA Annual Conference - SB, PJ, SM		
\$286.00	Dodd - Hilton x 2 nights - TH, DL	\$282.97	
\$8,231.23			
40.2.1 Registrations		52.2.14 Altosid/Methoprene	
\$15.00	FASD -Legislative Update Pre-session	\$125.00	Methoprene
		\$125.00	
\$15.00			
41.1 Communications		52.2.19 Permanone/Permethrin	
\$9.90	Earthlink monthly	\$83.50	Permethrin
\$9.90		\$83.50	
46.0.1 Maintenance by Others		52.2.23 Miscellaneous Chemicals	
\$125.00	used oil pickup	\$350.00	Spinosad, Etofenprox
\$125.00		\$350.00	
46.5.3 Dikes- IRMCD		52.3 Protective Clothing	
\$2,194.50	5 rolls filter fabric - Hurricane Nicole ←	\$134.95	steel toe boots - TH
\$2,194.50		\$134.95	
46.6.1 Trucks/Auto/ATV-IRMCD		52.4.3 Research - General	
\$75.45	Headlight for ATV 73	\$5.94	turkey basters x 2
\$75.45		\$181.88	foam cups, ocean salt, rabbit food
48.1 Promo/Educational		52.4.4 ULV	
\$718.15	356 Stadium cups, 400 bottle openers	\$187.82	
\$718.15		\$70.05	3 starter solenoids for ULV trucks
51.1 Office Supplies		52.4.5 Arbovirus	
\$45.76	3 pack iPhone charge blocks, Dial soap refill, folders		
\$42.48	iPhone case -PJ, screen protectors	\$56.92	Hapimp trail camera & 32g SD card
\$114.38	hardwound paper towels, p/towels, creamer	\$309.60	Purina homegrown pellet hicken feed
\$35.82	air fresheners		
\$54.80	freezer bags, paper towels		
\$26.98	Box of 500 AP envelopes		
\$63.93	New hire background checks		
\$76.64	Secure shredding of documents		
\$48.96	American flag, mechanical pencils	\$366.52	
\$10.99	mechanical pencils		
\$520.74			
51.2 Computer Software		52.5 Tools and Small Implements	
\$949.00	QuickBooks annual subscription	\$279.16	Ind. Endoscope, plug repair kit
\$252.00	QB Time fee per user	\$199.80	18 padlocks
\$111.21	Adobe Acrobat Pro license	\$478.96	
\$1,312.21			
51.3 Computer Hardware		54.1 Subscriptions	
\$225.35	hard disk	\$0.00	
-\$239.99	Refund on IOGear 4 port HDMI	\$150.00	Living Shoreline Course -BL, FT, JT
\$6.80	splitter/adaptor cable	\$275.00	Aquatic Weed Control Short Course- BC
-\$6.80	return splitter/adaptor cable		
-\$14.64		\$425.00	Total for MasterCard
			\$15,872.31



FIFTH THIRD BANK
 Account Number: XXXX XXXX XXXX 1603
 INDIAN RVR MOSQUITO CTR
 Statement Closing Date: 02/27/23

Corporate Account Summary

Previous Balance		\$11,784.43
Payments	-	\$11,784.43
Credits	-	\$246.79
Purchases and Other Charges	+	\$16,119.10
Cash Advances	+	\$0.00
Late Payment Charge	+	\$0.00
Cash Advance Fees	+	\$0.00
Finance Charges	+	\$0.00
New Balance		\$15,872.31
Disputed Amount		\$0.00
Past Due Amount		\$0.00
Credit Limit		\$25,000.00
Available Credit Limit		\$9,127.69
Cash Advance Credit Limit		\$0.00
Available Cash Advance Credit Limit		\$0.00
Statement Closing Date		02/27/23
Days In Billing Cycle		31

Payment Information

New Balance	\$15,872.31
Minimum Payment Due	\$15,872.31
Payment Due Date	03/24/23

QUESTIONS OR TO REPORT LOST/STOLEN CARDS?

Call Customer Service 1-800-375-1747

Please send billing inquiries and correspondence to:
 FIFTH THIRD BANK
 PO BOX 740523
 CINCINNATI, OH 45274-0523

Or email Inquires to CommercialSupport@53.com

Corporate Account Activity

Post Date	Tran Date	Reference Number	Transaction Description	Amount
02/13	02/13	75589263044230213000458	PAYMENT RECEIVED - THANK YOU	-11,784.43

Finance Charge Summary

Your Annual Percentage Rate (APR) is the annual rate on your account.

Type of Balance	Annual Percentage Rate (APR)	Balance Subject to Finance Charge	Finance Charge
PURCHASES	19.80%	\$0.00	\$0.00
CASH ADVANCES	19.80%	\$0.00	\$0.00

Cardholder Account Summary



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

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

MOSQUITO CONTROL MONTHLY REPORT - LOCAL FUNDS

WILTON SIMPSON
COMMISSIONER

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

COUNTY/ DISTRICT Indian River Mosquito Control

FISCAL YEAR: 2022-2023

MONTH: March

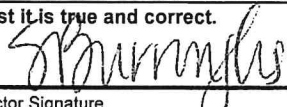
LOCAL FUNDS RECEIPTS AND BALANCES

ACCT NO	DESCRIPTION	Budgeted Receipts	Monthly Receipts	Receipts Year to Date	Balance to Be Collected
311	Ad Valorem (Current/Delinquent)	\$ 5,543,598.00	\$ 113,972.14	\$ 5,286,080.64	\$ 257,517.36
334.1	State Grant	\$ -	\$ -	\$ -	\$ -
362	Equipment Rentals	\$ -	\$ -	\$ -	\$ -
337	Grants and Donations	\$ 3,000.00	\$ -	\$ 5,000.00	\$ (2,000.00)
361	Interest Earnings	\$ 6,000.00	\$ -	\$ 27,039.87	\$ (21,039.87)
364	Equipment and/or Other Sales	\$ -	\$ -	\$ -	\$ -
369	Misc./Refunds (prior yr expenditures)	\$ -	\$ -	\$ 35,662.39	\$ (35,662.39)
380	Other Sources	\$ -	\$ -	\$ 6,795.92	\$ (6,795.92)
389	Loans	\$ -	\$ -	\$ -	\$ -
TOTAL RECEIPTS		\$ 5,552,598.00	\$ 113,972.14	\$ 5,360,578.82	\$ 192,019.18
BEGINNING FUND BALANCE		\$ 3,274,973.55	\$ -	\$ 3,274,973.55	\$ -
Total Receipts & Balance		\$ 8,827,571.55	\$ 113,972.14	\$ 8,635,552.37	\$ 192,019.18

LOCAL FUNDS EXPENDITURES AND BALANCES

ACCT NO	Uniform Accounting System Transaction Code	Budgeted Expenditures	Monthly Expenditures	Expenditures Year to Date	Balance to Be Expended
10	Personal Services	\$ 2,246,110.08	\$ 220,329.50	\$ 907,655.33	\$ 1,338,454.75
20	Personal Services Benefits	\$ 1,130,825.31	\$ 83,170.87	\$ 463,141.37	\$ 667,683.94
30	Operating Expense	\$ 1,257,715.00	\$ 59,007.21	\$ 361,247.10	\$ 896,467.90
40	Travel & Per Diem	\$ 39,330.00	\$ 12,409.38	\$ 24,880.09	\$ 14,449.91
41	Communication Services	\$ 28,000.00	\$ 1,662.86	\$ 15,156.83	\$ 12,843.17
42	Freight Services	\$ 2,000.00	\$ 21.36	\$ 234.35	\$ 1,765.65
43	Utility Service	\$ 25,000.00	\$ 1,484.58	\$ 6,684.02	\$ 18,315.98
44	Rentals & Leases	\$ 15,669.00	\$ 398.46	\$ 2,481.05	\$ 13,187.95
45	Insurance	\$ 83,000.00	\$ 18,575.25	\$ 53,920.95	\$ 29,079.05
46	Repairs & Maintenance	\$ 380,785.50	\$ 86,462.00	\$ 118,792.42	\$ 261,993.08
47	Printing and Binding	\$ 400.00	\$ -	\$ 303.84	\$ 96.16
48	Promotional Activities	\$ 2,500.00	\$ 755.13	\$ 797.90	\$ 1,702.10
49	Other Charges	\$ 4,000.00	\$ -	\$ 918.75	\$ 3,081.25
51	Office Supplies	\$ 73,340.00	\$ 7,547.94	\$ 36,739.19	\$ 36,600.81
52.1	Gasoline/Oil/Lube	\$ 128,250.00	\$ 5,734.61	\$ 22,461.61	\$ 105,788.39
52.2	Chemicals	\$ 1,101,208.61	\$ 558.50	\$ 174,734.30	\$ 926,474.31
52.3	Protective Clothing	\$ 5,500.00	\$ 679.39	\$ 1,925.27	\$ 3,574.73
52.4	Misc. Supplies	\$ 58,685.00	\$ 11,601.53	\$ 19,734.18	\$ 38,950.82
52.5	Tools & Implements	\$ 4,200.00	\$ 596.95	\$ 3,962.27	\$ 237.73
54	Publications & Dues	\$ 22,500.00	\$ 179.00	\$ 11,908.00	\$ 10,592.00
55	Training	\$ 23,900.00	\$ 1,414.00	\$ 8,231.80	\$ 15,668.20
60	Capital Outlay	\$ 476,510.00	\$ -	\$ 59,174.36	\$ 417,335.64
71	Principal	\$ -	\$ -	\$ -	\$ -
72	Interest	\$ -	\$ -	\$ -	\$ -
81	Aids to Government Agencies	\$ -	\$ -	\$ -	\$ -
83	Other Grants and Aids	\$ -	\$ -	\$ -	\$ -
89	Contingency (Current Year)	\$ 689,143.05	\$ -	\$ -	\$ 689,143.05
99	Payment of Prior Year Accounts	\$ -	\$ -	\$ -	\$ -
TOTAL BUDGET AND CHARGES		\$ 7,798,571.55	\$ 512,588.52	\$ 2,295,084.98	\$ 5,503,486.57
0.001	Reserves - Future Capital Outlay	\$ 600,000.00	\$ -	\$ -	\$ 600,000.00
0.002	Reserves - Self-Insurance	\$ -	\$ -	\$ -	\$ -
0.003	Reserves - Cash Balance to be Carried Forward	\$ 360,000.00	\$ -	\$ -	\$ 360,000.00
0.004	Reserves - Sick and Annual Leave	\$ 69,000.00	\$ -	\$ -	\$ 69,000.00
TOTAL RESERVES ENDING BALANCE		\$ 1,029,000.00	\$ -	\$ -	\$ 1,029,000.00
TOTAL BUDGETARY EXPENDITURES and BALANCES		\$ 8,827,571.55	\$ 512,588.52	\$ 2,295,084.98	\$ 6,532,486.57
ENDING FUND BALANCE		\$ -	\$ (398,616.38)	\$ 6,340,467.39	\$ (6,340,467.39)

By submission of this monthly report of receipts, expenditures, and balances, I attest it is true and correct.


 Director Signature

4/4/2023
 Date



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

MOSQUITO CONTROL MONTHLY REPORT - STATE FUNDS

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

WILTON SIMPSON
COMMISSIONER

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

COUNTY/ DISTRICT Indian River Mosquito Control

FISCAL YEAR: 2022-2023

MONTH: March

STATE FUNDS RECEIPTS AND BALANCES

ACCT NO	DESCRIPTION	Budgeted Receipts	Monthly Receipts	Receipts Year to Date	Balance to Be Collected
311	Ad Valorem (Current/Delinquent)	\$ -	\$ -	\$ -	\$ -
334.1	State Grant	\$ -	\$ -	\$ -	\$ -
362	Equipment Rentals	\$ -	\$ -	\$ -	\$ -
337	Grants and Donations	\$ -	\$ -	\$ -	\$ -
361	Interest Earnings	\$ 25.00	\$ 0.07	\$ 0.86	\$ 24.14
364	Equipment and/or Other Sales	\$ 3,000.00	\$ 262.86	\$ 262.86	\$ 2,737.14
369	Misc./Refunds (prior yr expenditures)	\$ -	\$ -	\$ -	\$ -
380	Other Sources	\$ -	\$ -	\$ -	\$ -
389	Loans	\$ -	\$ -	\$ -	\$ -
TOTAL RECEIPTS		\$ 3,025.00	\$ 262.93	\$ 263.72	\$ 2,761.28
BEGINNING FUND BALANCE		\$ 762.79	\$ -	\$ 762.79	\$ -
Total Receipts & Balance		\$ 3,787.79	\$ 262.93	\$ 1,026.51	\$ 2,761.28

STATE FUNDS EXPENDITURES AND BALANCES

ACCT NO	Uniform Accounting System Transaction Code	Budgeted Expenditures	Monthly Expenditures	Expenditures Year to Date	Balance to Be Expended
10	Personal Services	\$ -	\$ -	\$ -	\$ -
20	Personal Services Benefits	\$ -	\$ -	\$ -	\$ -
30	Operating Expense	\$ -	\$ -	\$ -	\$ -
40	Travel & Per Diem	\$ -	\$ -	\$ -	\$ -
41	Communication Services	\$ -	\$ -	\$ -	\$ -
42	Freight Services	\$ -	\$ -	\$ -	\$ -
43	Utility Service	\$ -	\$ -	\$ -	\$ -
44	Rentals & Leases	\$ -	\$ -	\$ -	\$ -
45	Insurance	\$ -	\$ -	\$ -	\$ -
46	Repairs & Maintenance	\$ -	\$ -	\$ -	\$ -
47	Printing and Binding	\$ -	\$ -	\$ -	\$ -
48	Promotional Activities	\$ -	\$ -	\$ -	\$ -
49	Other Charges	\$ -	\$ -	\$ -	\$ -
51	Office Supplies	\$ -	\$ -	\$ -	\$ -
52.1	Gasoline/Oil/Lube	\$ -	\$ -	\$ -	\$ -
52.2	Chemicals	\$ 3,787.79	\$ -	\$ -	\$ 3,787.79
52.3	Protective Clothing	\$ -	\$ -	\$ -	\$ -
52.4	Misc. Supplies	\$ -	\$ -	\$ -	\$ -
52.5	Tools & Implements	\$ -	\$ -	\$ -	\$ -
54	Publications & Dues	\$ -	\$ -	\$ -	\$ -
55	Training	\$ -	\$ -	\$ -	\$ -
60	Capital Outlay	\$ -	\$ -	\$ -	\$ -
71	Principal	\$ -	\$ -	\$ -	\$ -
72	Interest	\$ -	\$ -	\$ -	\$ -
81	Aids to Government Agencies	\$ -	\$ -	\$ -	\$ -
83	Other Grants and Aids	\$ -	\$ -	\$ -	\$ -
89	Contingency (Current Year)	\$ -	\$ -	\$ -	\$ -
99	Payment of Prior Year Accounts	\$ -	\$ -	\$ -	\$ -
TOTAL BUDGET AND CHARGES		\$ 3,787.79	\$ -	\$ -	\$ 3,787.79
0.001	Reserves - Future Capital Outlay	\$ -	\$ -	\$ -	\$ -
0.002	Reserves - Self-Insurance	\$ -	\$ -	\$ -	\$ -
0.003	Reserves - Cash Balance to be Carried Forward	\$ -	\$ -	\$ -	\$ -
0.004	Reserves - Sick and Annual Leave	\$ -	\$ -	\$ -	\$ -
TOTAL RESERVES ENDING BALANCE		\$ -	\$ -	\$ -	\$ -
TOTAL BUDGETARY EXPENDITURES and BALANCES		\$ 3,787.79	\$ -	\$ -	\$ 3,787.79
ENDING FUND BALANCE		\$ -	\$ 262.93	\$ 1,026.51	\$ (1,026.51)

By submission of this monthly report of receipts, expenditures, and balances, I attest it is true and correct.

Wilton Simpson
Director Signature

4/4/2023
Date

Attachment C



MEMORANDUM

Date: March 27, 2023

To: Commissioners

From: Sherry Burroughs, Executive Director

Subject: Herbicide Use

BACKGROUND:

At the prior two Board meetings, the topic of herbicide use was discussed and the suggestion of a policy for such use be developed. There was specific concern expressed with the use of glyphosate on impoundment areas and it was restated that the District is not using glyphosate on the dikes. The concern regarding herbicide use began during the discussion of the strategic objectives, specifically Strategic Goal 6, Objective 1 which is restated below.

Strategic Goal 6

Embrace environmental challenges through the implementation of best management practices, using sound science, and developing strong partnerships in our programs, policies, and procedures.

Objective 1

Permanent Control staff will be trained and licensed in proper herbicide applications within impoundments by obtaining public applicator licenses for natural areas by FY2022-2023 with continued training on an annual basis.

At the last Board meeting, staff was asked to gather information regarding how herbicides are currently being used and costs associated with training of staff, as well as costs for existing herbicide use, to be available for discussion at the April Board meeting.

DISTRICT'S HERBICIDE USE

Over the last ten years, the District has utilized three herbicides, AquaNeat, Prosecutor, and Garlon 4. Table 1 indicates the products purchased, date of purchase and cost. In 2015, the District's herbicide protocol states the following "Rodeo (with Class Act a surfactant or other suitable non-ionic surfactant) or Roundup (glyphosate) mixed with water for broadcast and directed sprays along trails that cannot be mowed with the tractor, and by pump stations and culverts for treatments of tall weeds" (IRMCD, 2015). It was reported that staff previously applied AquaNeat, an aquatic herbicide, around culvert risers on the impoundments. However, these protocols were discontinued by management in 2019. AquaNeat was last purchased in May of 2019 and there are 2 gallons of the 2.5 gallons purchased remaining as of Monday, March 27th, 2023.

The District also purchased 12.5 gallons of Prosecutor over the last ten years. From 2014 to 2020, the District purchased 2.5 gallons every year, with the last purchase of 2.5 gallons in August 2022. It has been only utilized around the perimeter fence, parking lot and edges of buildings at the District office.

Table 1. Herbicide products purchased by the District since 2013.

Purchase Date	Cost	Product
1/2/2013	\$78.00	Prosecutor (glyphosate 41%)
9/18/2013	\$116.54	AquaNeat 2.5 gal (glyphosate 53.8%)
10/23/2013	\$795.00	Garlon-4 10 gal
7/2/2014	\$67.85	Prosecutor 2.5 gal
9/23/2015	\$69.99	Prosecutor 2.5 gal
4/27/2016	\$263.84	AquaNeat 2.5 gal
11/29/2017	\$65.24	Prosecutor 2.5 gal
1/3/2018	\$215.84	AquaNeat 2.5 gal
5/1/2019	\$219.80	AquaNeat 2.5 gal
5/1/2019	\$70.74	Prosecutor 2.5 gal
12/15/2020	\$253.52	Triclopyr-4 2.5 gal
12/15/2020	\$6.29	MSO (oil) 1 qt.
12/15/2020	\$72.70	Prosecutor 2.5 gal
8/1/2022	\$155.00	Prosecutor 2.5 gal

Total \$2,450.35

Triclopyr, trade name Garlon 4, has been utilized for control of Brazilian pepper on impoundment dikes, including Oyster Bar (2012 & 2014), Hole-in-the-Wall (2014, 2015, 2016 & 2020), Round Island (2014), Vero Shores (2014), Vista Royale (2015 & 2019), North Winter Beach (2020 & 2021), Vickers (2020 & 2021), Morgans (2021), Sandpoint (2020), spoil islands (2014, 2015 & 2016) and around the perimeter of the administrative office (2022). Over the ten-year period, the District has utilized 129 gallons of Garlon 4.

Table 2. Areas treated with Garlon 4 mix to treat Brazilian peppertrees.

Fiscal Year	Amount of Mix (gal.)	Area/Location Treated with Garlon 4 Mix
2011-2012	15.5	Oyster Bar
2013-2014	44.5	HITW, River Lakes Trail, Island 38, Round Island, Oyster Bar, Vero Shores
2014-2015	4.75	HITW, Countyline, Vista Royale, Islands 9 & 43, Wabasso Boat Ramp,
2015-2016	4.25	Grove Isle, HITW, Island 43
2018-2019	4	Vista Royale
2019-2020	21	Vickers, HITW, Sandpoint, North & South Winter Beach
2020-2021	29	North Winter Beach, Vickers, & Morgans
2021-2022	6	District Grounds

Total 129

No treatments performed for FY2012-13, FY2016-17, FY2017-18 or FY2022-23

DISTRICT'S INTENT

"One of the greatest management issues in natural areas is invasive plants" (Enloe, 2022, p.1). A natural area is defined as "an area of land or water that either retains or has reestablished the characteristics of natural communities and provide environmental, scientific, or aesthetic benefits" (Fishel, et al.,2016, p.3). According to Indian River County (2021), the top ten exotic plants in the county are as follows:

1. Brazilian peppertree (*Schinus terebinthefolius*)
2. Australian pines (*Casuarina equisetifolia*)
3. Melaleuca (*Melaleuca quinquenervia*)
4. Shoebuttton ardisia (*Ardisia elliptica*)
5. Old World climbing fern (*Lygodium microphyllum*)
6. Air potato (*Discorea bulbifera*)
7. Caesar weed (*Urena lobata*)
8. Beach Naupaka (*Scaevola taccada* var. *sericea*)
9. Guinea grass (*Urochloa maxima*)
10. Cogon grass (*Imperata cylindrica*)

Two of the primary invasive plant species found on the impoundment dikes are Brazilian peppertree and Australian pine, both of which on the FDACS Florida Noxious Weed List (Florida Department of the State, n.d.). It is highly likely that some of the other exotic plant species listed above can also be found on the dikes. As such, it was recommended that the three employees within the Permanent Control Department be trained in proper invasive plant management to ensure the management of these species on impoundment dikes is performed in an effective manner.

Management of invasive plants is not limited to herbicide applications. "Control methods include cultural, preventative, manual and mechanical removal, biological control, physical controls and herbicides" and the "management of invasive vegetation in natural areas requires control methods that will minimize damage to non-target vegetation and other biotic and abiotic components of ecosystems" (Enloe, et al., 2022, p.1). The District mainly performs mechanical control, using the skid steer with the grinder head for mulching woody plants and trees, use of the tractor with a hedger or Chopzilla attachment to hedge the limbs of woody plants and trees, and the tractor with a brush mower to mow grasses and herbaceous weeds and small limbs that have been hedged. It is suggested that "Intense follow-up with other control methods is essential after the use of heavy equipment due to the disturbance of the soil creates favorable conditions for regrowth from seeds and root fragments as well as recolonization by invasive non-native plants" (Enloe, et. al, 2022a, p.4). Enloe, et al. also states that plants that are broken off at the ground "will often resprout and small root fragments left in the ground may produce new plants. Therefore, repeated hand-pulling or follow-up with herbicide applications is often necessary" (p.3).

Indian River County, City of Vero Beach and the City of Sebastian have not prohibited the use of any legally approved herbicides. There are limited "tools" in our toolbox to assist with control of not only mosquitoes, but also with invasive plants. As such it is recommended we not limit or prohibit the use of any EPA approved herbicides. The City of Sebastian's IPM plan states that "in the development of a thorough and reasonable IMP plan, it is not advisable to prohibit the use of any IPM method, which is

legally approved and included in the UF IFAS local recommendations for pest management”. (City of Sebastian, 2020, p.22).

It is important that staff have the basic knowledge and appropriate techniques for invasive plant management on the impoundment dikes, which may include the use of herbicides. Enloe, et al. (2022) also states that “anyone who applies herbicides in natural areas should have basic training in herbicide application” and “the basic knowledge of herbicide technology and application techniques needed for safe handling and effective use of any herbicides can be obtained through restricted use pesticide certification training” (p.6). Obtaining licensure as a Natural Areas Weed Management applicator would provide such training and education and provides assurances that treatments are being “applied by certified applicators who have the knowledge to use pesticides safely and effectively” (Enloe, 2022a, p.5).

COSTS OF LICENSURE

The cost for the Natural Areas Weed Management Training Manual is \$18 through the UF IFAS Bookstore, and the license fee is \$100. Licensure is valid for four years and can be renewed with proof of 4 core continuing education credits and 16 natural areas management credits. These credits can be obtained through the UF IFAS Extension Aquatic Weed Control Short Course. “For over 40 years, the University of Florida has offered training and continuing education for Florida's pesticide applicators through the Aquatic Weed Control Short Course. The Short Course features leading experts in Aquatic and Upland vegetation management and is designed to benefit those new to the industry and experienced professionals seeking a comprehensive update” (UF IFAS Extension, 2023). The cost of the short course for 2023 is \$275. Attendees will be able to earn 20 CEUs, 4 core and 16 natural areas, which is what is required for renewal of licensure at the end of the four-year term. The costs are summarized below.

• UF IFAS Extension Aquatic Weed Control Short Course	\$275
• Hotel Accommodations	\$370
• Natural Areas Weed Management Training Manual	\$18
• Travel Reimbursement	\$108
• License Fee (4 years)	<u>\$100</u>
	\$871/Employee

We are requesting to have three employees licensed in natural areas at a cost of \$2,613. It is recommended that at a minimum, the staff attend the training every other year. As such, the cost would not exceed \$2,700 every other year for this training.

RECOMMENDATIONS

1. Suggest Goal 6, Objective 1 be re-written as follows:
Permanent Control staff will be trained in invasive plant management techniques for use on the impoundment dikes. Permanent Control staff will obtain and maintain a public applicator license for natural areas by FY2023-2024.
2. To not prohibit use of any legally approved product.

References

- City of Sebastian (2020). *Integrated Pest Management Plan: for City Parks and Properties*. Retrieved from <https://www.cityofsebastian.org/DocumentCenter/View/961/City-of-Sebastian-Approved-IPM-for-Parks-and-Properties?bidId=>
- Enloe, S.F., Langeland, K.A., Ferrell, J., Sellers, B., & MacDonald, G. (2022). *Integrated Management of Invasive Plants in Natural Areas of Florida*. [PDF]. Retrieved from <https://edis.ifas.ufl.edu/publication/WG209> doi.org/10.32473/edis-wg-2018
- Fishel, F., Langeland, K. Enloe, S. & Gettys, L. (2106). *Natural Areas Weed management: A Training Manual for Restricted Use Pesticide Applicators*. IFAS Publication SP 295. University of Florida Institute of Food and Agricultural Sciences.
- Florida Department of the State. (n.d.). *State of Florida Noxious Weed List*. Chapter 5B-57: Introduction or Release of Plant Pests, Noxious Weeds, Arthropods, and Biological Control Agents, Florida Administrative Code. Retrieved from <https://www.flrules.org/gateway/ChapterHome.asp?Chapter=5b-57>
- Indian River County. (2021). *Exotic Plants*. Vimeo. Retrieved from <https://vimeo.com/501026071>
- Indian River Mosquito Control District. (2015). *IRMCD Herbicide Protocol v1.4*
- University of Florida IFAS Extension (n.d.). Aquatic Weed Short Course. Retrieved from <https://sfyl.ifas.ufl.edu/aquatic-weed-short-course/>

Attachment D

JANICE BRODA, COMMISSIONER
MATT ERPENBECK, COMMISSIONER
ANNA KIRKLAND, COMMISSIONER
SHERRY BURROUGHS, EXECUTIVE DIRECTOR



MEMORANDUM

Date: April 11, 2023
To: Board of Commissioners
From: IT Staff
Subject: **Video File Storage Estimate**

To store video files for televised meetings the following equipment is required:

- (2) Toshiba X300 4TP Performance Hard Disc Drives at \$104.99 Each.



- (3) Mediasonic ProRaid USB 3.1, 10Gbps 2 Bay 2.5" & 3.5" SATA Hard Drive Enclosure at \$79.99



Total investment is **\$289.97**.

Attachment E

JANICE BRODA, COMMISSIONER
MATT ERPENBECK, COMMISSIONER
ANNA KIRKLAND, COMMISSIONER
SHERRY BURROUGHS, EXECUTIVE DIRECTOR



MEMORANDUM

Date: April 11, 2023

To: Board of Commissioners

From: Lisa Ridley, Director of Finance & Support Service

Subject: **Aerial Adulticiding Bid Award**

Please find attached the following documents for your review in preparation for the bid award at the Board meeting on Tuesday April 11, 2023.

- Bid Comparison Table of Responses
- Bid Comparison Table of Charges
- Aerial Adulticiding Services Bid Response from Clarke
- Aerial Adulticiding Services Bid Response from VDCI, Inc.

Staff recommends award to VDCI, Inc. based on comparison of treatment cost per acre, mission response time, and number of available FDACS licensed pilots.

Aerial Adulticiding Services 2023-2025
Bid Comparison - Responses

Item	VDCI	Clarke
Aircraft, Pilots & Spray Equipment		
Type of aircraft	(2) Piper Aztec PA23-250	Beechcraft King Air A90
Swath width	1000 ft	1,000 ft typical, can adjust to specs
Spray equipment available	Rotary Atomizers	Dynamic Aviation Autoflow System, AgNav Flight Guidance, Aimms Meterological Probe
Rotary atomize technology	Micronair AU4000 Rotary Atomizer	(2) Micronair AU5000's Rotary Atomizer; (1) mounted on each wing tip
Droplet Analysis- method	Drop Vision to determine the Droplet VMD	Teflon slides with wind tunnel
Droplet Analysis- Results	Dibrom 34.8 VMD	25-35 VMD
Pilot's Certification		
Number FDACS licensed pilots available at all times	5	3
Number certified and competent to use GPS equipment	9	7
NPDES compliance		
	Yes	Yes
Global Positioning System (GPS) Equipment		
Type of GPS swath guidance equipment	Wingman GS Full Spray Cloud Modeling	AgNav Flightmaster
Does the equipment delineate spray on and off?	Yes	Yes
Does the equipment have capability to offset based on weather conditions measured at the aircraft?	Yes, equipped with AIMMS-20 & AIMMS-30 meteorological data probe	Yes- equipped with Flightmaster and AIMMS-20
Is the data ESRI compatible?	Yes	Yes
Spraying Availability		
What is the response time once mission is requested?	48 hours or less	72 hours or less
Specify the airport anticipated to be utilized.	Vero Beach (VRB)	Sarasota (KSRQ) with Vero Beach (KVRB) as a fuel stop
Specify the maximum load for Dibrom	60 gallons	120 gallons
Can the Dibrom be drop shipped to the take-off location?	Yes	Yes
If so, what is the storage capacity at the take-off location?	Uncapped	Up to 12 drums
Congested Area Plan		
Do you have experience in obtaining a CAP in the FSDO which covers Indian River County?	Yes	Yes
Do you currently have a CAP covering Indian River County?	Yes	No
If not, how long would you anticipate to receive a CAP?		30 days from award
Insurance		
Copy of insurance provide with bid	Yes	Yes
Description of insurance coverage	see attached COI	\$10M umbrella insurance with pollution liability
Can District be added as "Named Insured"?	Yes	Yes
Can District be granted "waiver of subrogation rights"?	Yes	Yes
Are all employees covered by Workers Comp?	Yes	Yes

Aerial Adulticiding Services 2023-2025
Bid Comparison - Charges

Charges	Current Cost/Ac VDCI	VDCI		Current Cost/Ac CLARKE	Clarke		Alternative Pricing from Clarke							
		Cost per acre			Cost per acre		Merus 3.0 Cost/acre			Duet HD Cost/acre				
		Year 1	Year 2		Year 1	Year 2	Rate	Year 1	Year 2	Rate	Year 1	Year 2		
Bidder provides Dibrom														
0.4 oz/acre	\$ 1.53	\$ 1.61	\$ 1.66	\$ 1.61	\$ 1.74	\$ 1.79	0.88 oz/ac	\$ 2.86	\$ 2.86	0.80 oz/ac	\$ 2.03	\$ 2.03		
0.6 oz/acre	\$ 1.95	\$ 2.07	\$ 2.14	\$ 2.05	\$ 2.21	\$ 2.28				0.94 oz/ac	\$ 2.25	\$ 2.25		
1.0 oz/acre	\$ 2.77	\$ 2.96	\$ 3.08	\$ 2.93	\$ 3.16	\$ 3.28								
District provides Dibrom														
0.4 oz/acre	\$ 0.73	\$ 0.74	\$ 0.75	\$ 0.73	\$ 0.79	\$ 0.79	0.88 oz/ac	\$ 0.77	\$ 0.77	0.80 oz/ac	\$ 0.77	\$ 0.77		
0.6 oz/acre	\$ 0.75	\$ 0.76	\$ 0.77	\$ 0.73	\$ 0.79	\$ 0.79				0.94 oz/ac	\$ 0.77	\$ 0.77		
1.0 oz/acre	\$ 0.77	\$ 0.78	\$ 0.79	\$ 0.73	\$ 0.79	\$ 0.79								

Year 1 - May 1, 2023- April 30, 2024

Year 2 - May 1, 2024- April 30, 2025

Note:

2017 - treated 76,800 acres for Hurricane Irma

2019 - treated 76,800 acres for WNV Advisory



RECEIVED
3/14/23
11:15 AM

**INDIAN RIVER MOSQUITO CONTROL DISTRICT
AERIAL ADULTICIDING BID FORM**

This bid allows for a 2-year contract. The duration of this agreement will be from May 1, 2023 through April 30, 2024, with a renewal option contingent on satisfactory performance for May 1, 2024 through April 30, 2025.

I. AIRCRAFT, PILOTS & SPRAY EQUIPMENT

- A. Specify the type and number of aircraft available. Beechcraft King Air A90
 - 1. What is your swath width? 1,000 feet is typical. We can adjust to your specifications.
 - 2. Type of spray equipment available. Dynamic Aviation Autoflow System, AgNav Flight Guidance, Aimms Meteorological Probe
 - 3. Rotary atomizer technology (or equivalent): Provide brief description. Micronair AU5000 Rotary Atomizer: Each aircraft has 2 micronair AU5000's; one micronair AU5000 mounted on each wing tip.
- Droplet Analysis:*
- a) Method: Teflon slides with wind tunnel
 - b) Results: 25-35 VMD

B. Pilot's Certification

- 1. Guarantee that at least one pilot with Public Health Pest Control and Aerial Applicator's licenses from the FDACS is always available. X YES NO
- 2. Number of pilots with FDACS Public Health Pest Control and Aerial Applicator's licenses that are available at all times. 3
- 3. How many pilots do you have who are certified to pilot the aircraft for mosquito control aerial adulticide missions and are competent to use your GPS equipment? Please include their duration of experience conducting this type of work. Seven (7) pilots with experience ranging from 3 years to 20 years. All certified and GPS competent.

II. NPDES

IRMCD is required to comply with NPDES permitting for discharge of pesticides. Is bidder prepared to comply with NPDES equipment operator requirements? X YES NO

III. GLOBAL POSITIONING SYSTEM (GPS) EQUIPMENT

- A. What type of GPS swath guidance equipment is used in your aircraft? Agnav Flightmaster
- B. Does this GPS equipment allow you to fully "outline" the area(s) to be sprayed so that spray on-spray off spots are delineated? X YES NO
- C. Does this include equipment with modeling capabilities to allow proper offsetting based on weather conditions measured at the aircraft? Please describe. Yes - Aircraft equipped with Flightmaster and AIMMS-20



D. Is the data (e.g., snail-trail) from your GPS equipment "ESRI" compatible (.shp files)? YES NO

IV. SPRAYING AVAILABILITY

A. During the agreement period, after you are contacted to spray, how soon can spraying begin?
72 hours or less

B. What airport do you anticipate the mission flying from? Sarasota (KSRQ) with Vero Beach (KVRB) as a fuel stop

C. What is the maximum load for Dibrom? 120 gallons

D. Can we drop ship the Dibrom to your take-off location? Yes

E. If so, what is the storage capacity for Dibrom at your take-off location? Up to 12 drums

V. CONGESTED AREA FLIGHT PLAN

A. Successful bidder must apply through the FAA for a congested area flight plan (CAFP) within 30 days of receiving the bid award. Do you have experience obtaining a CAFP in the FSDO which covers Indian River County? YES NO

B. Do you currently have a CAFP covering Indian River County? YES NO

C. If not, how long do you anticipate it will take to receive a CAFP for IRMCD? 30 Days from award

VI. INSURANCE COVERAGE

A. Please explain your insurance coverage (include coverage limits, carrier name, address, phone # and contact person). Insurance certificates attached. \$10M umbrella insurance included. Pollution liability included.

B. Is a copy of the insurance coverage included with this bid? YES NO

C. Can the District be included on bidder's policy as a "Named Insured"? YES NO

D. Can the District be granted a "waiver of subrogation rights" by insurance company? YES NO

E. Are all your employees working on this project covered by Workers Comp? YES NO

VII. PRICING

Do you agree to allow other agencies to participate in this agreement (piggyback)? YES NO



Prices for Year One – May 1, 2023 through April 30, 2024

Using rotary atomizer technology (or equivalent) and bidder loading Dibrom:

Application Rate	Price per acre with <u>Bidder</u> supplying Dibrom	Price per acre with <u>IRMCD</u> supplying Dibrom
0.4 oz. per acre	\$1.74/acre	\$0.79/acre
0.6 oz. per acre	\$2.21/acre	\$0.79/acre
1.0 oz. per acre	\$3.16/acre	\$0.79/acre

Any special provisions? Please note the District can save approximately 7% of the cost of Dibrom by providing the Dibrom to the contractor as all Contractors have to pay sales tax. This also allows the District to provide an alternate insecticide should the District wish to do so.

We (Clarke) have also provided a bid for Next Generation Aerial Adulticides for the Districts consideration. These alternate bids will give the District the ability to offer the community "softer greener" options that better meet todays' public preference.

Prices for Year Two – May 1, 2024 through April 30, 2025

Using rotary atomizer technology (or equivalent) and bidder loading Dibrom:

Application Rate	Price per acre with <u>Bidder</u> supplying Dibrom	Price per acre with <u>IRMCD</u> supplying Dibrom
0.4 oz. per acre	\$1.79/acre	\$0.79/acre
0.6 oz. per acre	\$2.28/acre	\$0.79/acre
1.0 oz. per acre	\$3.28/acre	\$0.79/acre

Any special provisions? The above prices for year two are "best guess" estimates as Adapco raises the price of Dibrom each year.

We will adjust the price up or down based on the current price of Dibrom. Please note the District can save approximately 7% of the cost of Dibrom by providing the Dibrom to the contractor as all Contractors have to pay sales tax.



Bidder Information


Company Name Clarke Environmental Mosquito Management, Inc.

Address 3036 Michigan Ave, Kissimmee, FL 34744

Phone 407-944-0520 or 800-323-5727 Fax 407-944-0709

Email Cjackson@clarke.com

Name Cherrief Jackson Title Control Consultant

Signature  Date 03/06/2023

State of Florida

Department of State

I certify from the records of this office that CLARKE ENVIRONMENTAL MOSQUITO MANAGEMENT, INC. is an Illinois corporation authorized to transact business in the State of Florida, qualified on February 17, 1983.

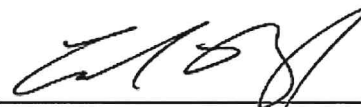
The document number of this corporation is 855574.

I further certify that said corporation has paid all fees due this office through December 31, 2023, that its most recent annual report/uniform business report was filed on January 20, 2023, and that its status is active.

I further certify that said corporation has not filed a Certificate of Withdrawal.

*Given under my hand and the
Great Seal of the State of Florida
at Tallahassee, the Capital, this
the Twenty-eighth day of January,
2023*




Secretary of State

Tracking Number: 4181879250CU

To authenticate this certificate, visit the following site, enter this number, and then follow the instructions displayed.

<https://services.sunbiz.org/Filings/CertificateOfStatus/CertificateAuthentication>

STATE OF FLORIDA
Department of Agriculture and Consumer Services
BUREAU OF LICENSING AND ENFORCEMENT

Date File No. Expires
May 12, 2022 PH264827 October 18, 2025

THE PUBLIC HEALTH PEST CONTROL LICENSE HOLDER NAMED
BELOW HAS REGISTERED UNDER THE PROVISIONS OF CHAPTER
388 FOR THE PERIOD EXPIRING: October 18, 2025

ANDREW GENTES
619 INDIANA AVE
SAINT CLOUD, FL 34769

Regular
Aerial Applicator

Nicole Fried
NICOLE "NIKKI" FRIED, COMMISSIONER

STATE OF FLORIDA
Department of Agriculture and Consumer Services
BUREAU OF LICENSING AND ENFORCEMENT

ANDREW GENTES
PUBLIC HEALTH PEST CONTROL LICENSE HOLDER

PH264827

HAS PAID THE FEE REQUIRED BY CHAPTER 388 FOR THE PERIOD
EXPIRING October 18, 2025

Nicole Fried Signature
COMMISSIONER

Wallet Card - Fold Here

BUREAU OF LICENSING & ENFORCEMENT
3125 CONNER BLVD, BLDG. 8
TALLAHASSEE, FLORIDA 32399-1650

STATE OF FLORIDA
Department of Agriculture and Consumer Services
BUREAU OF LICENSING AND ENFORCEMENT

Date File No. Expires
January 27, 2020 PH294468 January 27, 2024

THE PUBLIC HEALTH PEST CONTROL LICENSE HOLDER NAMED
BELOW HAS REGISTERED UNDER THE PROVISIONS OF CHAPTER
388 FOR THE PERIOD EXPIRING: January 27, 2024

Regular

GREGG GRANGER
17151 ARROWHEAD BLVD
WINTER GARDEN, FL 34787

Nicole Fried
NICOLE "NIKKI" FRIED, COMMISSIONER

Cut here

STATE OF FLORIDA
Department of Agriculture and Consumer Services
BUREAU OF LICENSING AND ENFORCEMENT

GREGG GRANGER
PUBLIC HEALTH PEST CONTROL LICENSE HOLDER

PH294468

HAS PAID THE FEE REQUIRED BY CHAPTER 388 FOR THE PERIOD
EXPIRING January 27, 2024

Nicole Fried Signature
COMMISSIONER

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BUREAU OF LICENSING & ENFORCEMENT
3125 CONNER BLVD, BLDG. 8
TALLAHASSEE, FLORIDA 32399-1650

STATE OF FLORIDA
Department of Agriculture and Consumer Services
BUREAU OF LICENSING AND ENFORCEMENT

Date File No. Expires
January 11, 2021 PH9009 February 1, 2025

THE PUBLIC HEALTH PEST CONTROL LICENSE HOLDER NAMED
BELOW HAS REGISTERED UNDER THE PROVISIONS OF CHAPTER
388 FOR THE PERIOD EXPIRING: February 1, 2025

Regular

FRANK J CLARKE
3036 MICHIGAN AVE
KISSIMMEE, FL 34744

Nicole Fried
NICOLE "NIKKI" FRIED, COMMISSIONER

STATE OF FLORIDA
Department of Agriculture and Consumer Services
BUREAU OF LICENSING AND ENFORCEMENT

FRANK J CLARKE
PUBLIC HEALTH PEST CONTROL LICENSE HOLDER

PH9009

HAS PAID THE FEE REQUIRED BY CHAPTER 388 FOR THE PERIOD
EXPIRING February 1, 2025

Nicole Fried Signature
COMMISSIONER

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BUREAU OF LICENSING & ENFORCEMENT
3125 CONNER BLVD, BLDG. 8
TALLAHASSEE, FLORIDA 32399-1650

STATE OF FLORIDA
 Department of Agriculture and Consumer Services
 BUREAU OF LICENSING AND ENFORCEMENT

Date	File No.	Expires
May 7, 2021	PH310669	May 7, 2025

THE PUBLIC HEALTH PEST CONTROL LICENSE HOLDER NAMED BELOW HAS REGISTERED UNDER THE PROVISIONS OF CHAPTER 388 FOR THE PERIOD EXPIRING: May 7, 2025

Regular

WILLIAM OCONNELL
 2255 DARBY LANE
 ST CLOUD, FL 34769

Nicole Fried
 NICOLE "NIKKI" FRIED, COMMISSIONER

Cut here

STATE OF FLORIDA
 Department of Agriculture and Consumer Services
 BUREAU OF LICENSING AND ENFORCEMENT

WILLIAM OCONNELL
 PUBLIC HEALTH PEST CONTROL LICENSE HOLDER

PH310669

HAS PAID THE FEE REQUIRED BY CHAPTER 388 FOR THE PERIOD EXPIRING May 7, 2025

Nicole Fried Signature
 COMMISSIONER

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BUREAU OF LICENSING & ENFORCEMENT
 3125 CONNER BLVD, BLDG. 8
 TALLAHASSEE, FLORIDA 32399-1650

STATE OF FLORIDA
 Department of Agriculture and Consumer Services
 BUREAU OF LICENSING AND ENFORCEMENT

Date	File No.	Expires
March 15, 2021	PH308273	March 15, 2025

THE PUBLIC HEALTH PEST CONTROL LICENSE HOLDER NAMED BELOW HAS REGISTERED UNDER THE PROVISIONS OF CHAPTER 388 FOR THE PERIOD EXPIRING: March 15, 2025

Regular

WILLIAM HENRY CRAWFORD
 650 TORGIANO DRIVE
 OCOEE, FL 34761

Nicole Fried
 NICOLE "NIKKI" FRIED, COMMISSIONER

Cut here

STATE OF FLORIDA
 Department of Agriculture and Consumer Services
 BUREAU OF LICENSING AND ENFORCEMENT

WILLIAM HENRY CRAWFORD
 PUBLIC HEALTH PEST CONTROL LICENSE HOLDER

PH308273

HAS PAID THE FEE REQUIRED BY CHAPTER 388 FOR THE PERIOD EXPIRING March 15, 2025

Nicole Fried Signature
 COMMISSIONER

Wallet Card
 Wallet Card - Fold Here

BUREAU OF LICENSING & ENFORCEMENT
 3125 CONNER BLVD, BLDG. 8
 TALLAHASSEE, FLORIDA 32399-1650

STATE OF FLORIDA
 Department of Agriculture and Consumer Services
 BUREAU OF LICENSING AND ENFORCEMENT

Date	File No.	Expires
November 12, 2019	PH292133	November 8, 2023

THE PUBLIC HEALTH PEST CONTROL LICENSE HOLDER NAMED BELOW HAS REGISTERED UNDER THE PROVISIONS OF CHAPTER 388 FOR THE PERIOD EXPIRING: November 8, 2023

Regular

PETE THOMAS MANTAS
 1049 SHAFFER TRAIL
 OVIEDO, FL 32765

Nicole Fried
 NICOLE "NIKKI" FRIED, COMMISSIONER



Alternate Insecticides for Aerial Adulticide Applications

Duet® HD

Duet® HD is a Dual-Action Adulticide containing prallethrin which provides quick knockdown, and Synergized Sumithrin® which provides effective kill of adult mosquitoes. The combination of active ingredients causes resting mosquitoes to take flight so that more of the population can be controlled. Duet HD is an advancement on our Duet product, with all-new formulation with a patent-pending carrier complex that is ideal for routine aerial application. Working with the same active ingredients, this new carrier complex adds weight, minimizes vaporization for better cloud performance, and enhances cuticle bonding and penetration. There is no agitation required, it's non-corrosive, and there is no offensive odor. Duet HD is ideal as a routine aerial control product in regions that deal with long flight range nuisance mosquitoes like inland floodland and salt marsh species.

Merus 3.0®

Merus 3.0 is the only wide area public health adulticide labeled for use in or around organic crops. Merus is OMRI Listed and meets National Organic Program standards for adult mosquito control. With Merus® 3.0, Osceola County can confidently and seamlessly use just one adulticide product across all their conventional farming, organic agriculture and urban or residential settings.

Merus 3.0 is formulated with 5% pyrethrins, a botanical insecticide and no petroleum distillates. The six natural pyrethrins target the mosquito in multiple ways. The new carrier formulation features low to no odor and crop tolerance labeling. The label rates also make Merus 3.0 ideal for aerial application. Normal rates are between 0.56 - 0.88 oz per acre but applications up to 2.81 oz per acre may be made when targeting *Aedes Taeniorhynchus* or other difficult-to-control- species.

Indian River Bid – Aerial Adulticide Duet HD Alternate Pricing

Do you agree to allow other agencies to participate in this agreement (piggyback)? X YES ___ NO

Prices for Year One – May 1, 2023 through April 30, 2024

Using rotary atomizer technology (or equivalent) and bidder loading Duet HD:

Application Rate	Price per acre with <u>Bidder</u> supplying Duet HD	Price per acre with <u>IRMCD</u> supplying Duet HD
0.80 oz. per acre	\$2.03/acre	\$0.77/acre
0.94 oz. per acre	\$2.25/acre	\$0.77/acre

Any special provisions? We encourage the District to accept these alternate bids for NextGen products as it will give the District more “softer greener” options that better meet today’s public preference.

Prices for Year Two – May 1, 2024 through April 30, 2025

Using rotary atomizer technology (or equivalent) and bidder loading Duet HD:

Application Rate	Price per acre with <u>Bidder</u> supplying Duet HD	Price per acre with <u>IRMCD</u> supplying Duet HD
0.80 oz. per acre	\$2.03/acre	\$0.77/acre
0.94 oz. per acre	\$2.25/acre	\$0.77/acre

Any special provisions? We encourage the District to accept these alternate bids for NextGen products as it will give the District more “softer greener” options that better meet today’s public preference.

Bidder Information


Company Name Clarke Environmental Mosquito Management, Inc.

Address 3036 Michigan Ave, Kissimmee, FL 34744

Phone 407-944-0520 or 800-323-5727 Fax 407-944-0709

Email Cjackson@clarke.com

Name Cherrief Jackson Title Control Consultant

Signature  Date 03/06/2023

Indian River Bid – Aerial Adulticide Merus Alternate Pricing

Do you agree to allow other agencies to participate in this agreement (piggyback)? X YES NO

Prices for Year One – May 1, 2023 through April 30, 2024

Using rotary atomizer technology (or equivalent) and bidder loading Merus 3.0:

Application Rate	Price per acre with <u>Bidder</u> supplying Merus 3.0	Price per acre with <u>IRMCD</u> supplying Merus 3.0
0.88 oz. per acre	\$2.86/acre	\$0.77/acre

Any special provisions? We encourage the District to accept these alternate bids for NextGen products as it will give the District more “softer greener” options that better meet today’s public preference.

Prices for Year Two – May 1, 2024 through April 30, 2025

Using rotary atomizer technology (or equivalent) and bidder loading Merus 3.0:

Application Rate	Price per acre with <u>Bidder</u> supplying Merus 3.0	Price per acre with <u>IRMCD</u> supplying Merus 3.0
0.88 oz. per acre	\$2.86/acre	\$0.77/acre

Any special provisions? We encourage the District to accept these alternate bids for NextGen products as it will give the District more “softer greener” options that better meet today’s public preference.

Bidder Information

Company Name Clarke Environmental Mosquito Management, Inc.

Address 3036 Michigan Ave, Kissimmee, FL 34744

Phone 407-944-0520 or 800-323-5727 Fax 407-944-0709

Email Cjackson@clarke.com

Name Cherrief Jackson Title Control Consultant

Signature  Date 03/06/2023



DUET® HD

Dual-Action Adulticide

For Aerial Application. Dual-Action Adulticide containing Prallethrin which provides Quick Knockdown, and Synergized Sumithrin® which provides effective kill of Adult MOSQUITOES, GNATS, BITING AND NON-BITING MIDGES and BLACK FLIES in Outdoor Residential and Recreational Areas.

For use only by federal, state, tribal, or local government officials responsible for public health or vector control, or by persons certified in the appropriate category or otherwise authorized by the state or tribal lead pesticide regulatory agency to perform adult mosquito control applications, or by persons under their direct supervision.

Active Ingredients:

Prallethrin: (RS)-2-methyl-4-oxo-3-(2-propenyl) cyclopent-2-enyl-(1RS)-cis, trans-chrysanthemate	1.00%
Sumithrin®: 3-Phenoxybenzyl-(1RS, 3RS, 1RS, 3SR)-2,2-dimethyl-3-(2-methylprop-1-enyl) cyclopropanecarboxylate	5.00%
* Piperonyl Butoxide	5.00%
Other Ingredients	89.00%
	100.00%

Contains 0.093 pounds of Prallethrin/Gallon, 0.467 pounds of Sumithrin®/Gallon and 0.467 pounds of PBO/Gallon

*(butylcarbityl) (6-propylpiperonyl) ether and related compounds

KEEP OUT OF REACH OF CHILDREN

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

Personal Protective Equipment (PPE): Mixers, loaders, applicators, and other handlers must wear long-sleeved shirt, long pants, shoes and socks. See engineering controls for additional requirements.

User Safety Requirements: Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry. Discard clothing and other absorbent material that have been drenched or heavily contaminated with the product's concentrate. Do not reuse them.

User Safety Recommendations: Users should wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet. Users should remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Users should remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change clothing.

Engineering Controls: Pilots must use an enclosed cockpit that meets the requirements listed in Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(6)]. Human flagging is prohibited. Flagging to support aerial applications is limited to use of the Global Positioning System (GPS) or mechanical flaggers.

ENVIRONMENTAL HAZARDS

This pesticide is highly toxic to aquatic organisms, including fish and aquatic invertebrates. Runoff from treated areas or deposition of spray droplets into a body of water may be hazardous to fish and aquatic invertebrates. Before making the first application in a season, it is advisable to consult with the state or tribal agency with primary responsibility for pesticide regulation to determine if other regulatory requirements exist. Do not apply over bodies of water (lakes, rivers, permanent streams, natural ponds, commercial fish ponds, swamps, marshes or estuaries), except when necessary to target areas where adult mosquitoes are present, and weather conditions will facilitate movement of

applied material away from the water in order to minimize incidental deposition into the water body. Do not contaminate bodies of water when disposing of equipment rinsate or wash waters.

This product is highly toxic to bees exposed to direct treatment on blooming crops or weeds. Do not apply to or allow drift onto blooming crops or weeds when bees are foraging the treatment area, except when applications are made to prevent or control a threat to public and/or animal health determined by a state, tribal or local health or vector control agency on the basis of documented evidence of disease causing agents in vector mosquitoes or the occurrence of mosquito-borne disease in animal or human populations, or if specifically approved by the state or tribe during a natural disaster recovery effort.

PHYSICAL OR CHEMICAL HAZARDS

Do not use or store near heat or open flame.

DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

USE RESTRICTIONS

For use only by federal, state, tribal, or local government officials responsible for public health or vector control, or by persons certified in the appropriate category or otherwise authorized by the state or tribal lead pesticide regulatory agency to perform adult mosquito control applications, or by persons under their direct supervision.

IN CALIFORNIA: This product is to be applied by County Health Department, State Department of Health Services, Mosquito and Vector Control or Mosquito Abatement District personnel only.

IN FLORIDA: Aerial applications of this product require trained personnel to perform industry accepted assays to monitor resistance formation in targeted mosquitoes.

Do not treat a site with more than 0.0036 lb. of each a.i., Sumithrin and piperonyl butoxide and 0.00072 lbs. prallethrin per acre in a single application or in any 24-hour period. Do not apply more than 0.0108 lb. each of Sumithrin and piperonyl butoxide and 0.0022 lb. prallethrin to the same treatment area in a 7 day period. Do not apply more than 0.0216 lb. each of Sumithrin and piperonyl butoxide and 0.0043 lb. prallethrin to the same treatment area in 1 month. Do not exceed 0.1 lb. of Sumithrin or piperonyl butoxide or 0.02 lb. prallethrin per acre in any site in one year. More frequent applications may be made to prevent or control a threat to public and/or animal health determined by a state, tribal, or local health or vector control agency on the basis of documented evidence of disease causing agents in vector mosquitoes or the occurrence of mosquito-borne disease in animal or human populations, or if specifically approved by the state or tribe during a natural disaster recovery effort.

NOTE: When rotating products with other insecticides containing piperonyl butoxide, do not exceed 2 lbs PBO per acre per year.

Not for use in outdoor residential misting systems. Not for use in metered release systems. Do not dilute this product. Do not use this product in thermal fogging equipment.

USE INFORMATION

DUET® HD Dual-Action Adulticide is approved for application as an Ultra Low Volume (ULV) nonthermal aerosol (cold fog) in mosquito adulticiding programs

Involving outdoor residential and recreational areas where adult mosquitoes are present in annoying numbers, and in vegetation surrounding parks, woodlands, swamps, marshes, overgrown areas and golf courses.

DUET® HD Dual-Action Adulticide may be applied over crops or to areas favoring drift over crops, including row, tree, fruit, citrus, pasture and other areas where agricultural enterprises take place.

SPRAY DROPLET SIZE DETERMINATION

Aerial Equipment, wide area mosquito abatement application: Spray equipment must be adjusted so that the volume median diameter produced is less than 60 microns (Dv 0.5 < 60 um) and that 90% of the spray is contained in droplets smaller than 115 microns (Dv 0.9 < 115 um). The effects of flight speed and, for non-rotary atomizers, nozzle angle on the droplet size spectrum must be considered. Directions from the equipment manufacturer or vendor, pesticide registrant, or a test facility using a wind tunnel and laser-based measurement instrument must be used to adjust equipment to produce acceptable droplet size spectra. Application equipment must be tested at least annually to confirm that pressure at the nozzle and nozzle flow rate(s) are properly calibrated.

AERIAL APPLICATION

DUET® HD Dual-Action Adulticide may be applied at rates of 0.33 to 0.99 fluid ounces of DUET® HD Dual-Action Adulticide per acre by fixed wing or rotary aircraft equipped with suitable ULV application equipment. Appropriate spray systems include rotary atomizers, flat fan, high pressure, and high pressure impaction nozzles characterized and oriented to achieve the droplet characteristics specified in this label.

Do not apply by fixed wing aircraft at a height less than 100 feet above the ground or canopy, or by helicopter at a height less than 75 feet above the ground or canopy unless specifically approved by the state or tribe based on public health needs. When making aerial application at an altitude of less than 100 feet, apply only when wind speed at altitude is greater than or equal to 5 mph. When making application at an altitude of 100 feet or greater, apply only when wind speed at altitude is greater than or equal to 3 mph.

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

PESTICIDE STORAGE: Store in a cool, dry place. Keep container closed.

PESTICIDE DISPOSAL: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

CONTAINER HANDLING: *[For Refillable Containers]* Refillable container. Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into rinsate collection system. Repeat this rinsing procedure two more times. Offer for recycling if available or reconditioning if appropriate, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

CONTAINER HANDLING: *[For Nonrefillable containers of 5 gallons or less]* Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with mineral oil and recap. Shake for 10 seconds. Pour rinsate into application equipment or a rinse tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Offer for recycling if available or reconditioning if appropriate, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

NOTICE: To the extent consistent with applicable law, Seller makes no other warranties, express or implied, of merchantability or of fitness for a particular purpose or otherwise, that extend beyond the statements made on this label. To the extent consistent with applicable law, Buyer assumes all risk of use/handling of this material when use and/or handling is contrary to label instructions.

FOR MORE INFORMATION CALL: 1-800-323-5727

IN CASE OF MEDICAL EMERGENCY, CALL THE
INTERNATIONAL POISON CONTROL CENTER 1-800-214-7753

IN CASE OF TRANSPORTATION EMERGENCY, CALL
INFO-TRAC 1-800-553-5053

Sumithrin® - Trademark of Sumitomo Company, Ltd.

Duet® -Registered Trademark of Clarke Mosquito Control Products, Inc.

Manufactured By:
CLARKE MOSQUITO CONTROL PRODUCTS, INC.
159 N. GARDEN AVENUE
ROSELLE, ILLINOIS 60172 U.S.A.

EPA Reg. No.: 8329-105

EPA Est. No:

NET CONTENTS: _____

LOT NO.: _____



MERUS® 3.0

FOR USE IN ORGANIC PRODUCTION

For control of adult mosquitoes in Outdoor Residential, Recreational, Urban, Industrial, and Agricultural Areas. For use over agricultural crops, including those intended for human consumption, pasture, and rangeland. For Aerial and Ground ULV Application.

Active Ingredient:	
Pyrethrins, a botanical insecticide	5.0%
Other Ingredients	95.0%
	100.0%
Contains 0.365 pounds Pyrethrins per gallon	

KEEP OUT OF REACH OF CHILDREN

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

Personal Protective Equipment (PPE): Mixers, loaders, applicators and other handlers must wear the following: long-sleeve shirt, long pants, shoes and socks. See engineering controls for additional requirements.

User Safety Requirements: Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry. Discard clothing and other absorbent materials that have been drenched or heavily contaminated with the product's concentrate. Do not reuse them.

User Safety Recommendations: Users should wash hands before eating, drinking, chewing gum, tobacco, or using the toilet. Users should remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Users should remove PPE immediately after handling this product. As soon as possible, wash thoroughly and change into clean clothing.

Engineering Controls: Pilots must use an enclosed cockpit that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(6)]. Human flagging is prohibited. Flagging to support aerial application is limited to use of the Global Positioning System (GPS) or mechanical flaggers.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to aquatic organisms, including fish and aquatic invertebrates. Runoff from treated areas or deposition of spray droplets into a body of water may be hazardous to fish and aquatic invertebrates. Before making the first application in a season, it is advisable to consult with the state or tribal agency with primary responsibility for pesticide regulation to determine if other regulatory requirements exist. Do not apply over bodies of water (lakes, rivers, permanent streams, natural ponds, commercial fish ponds, swamps, marshes or estuaries), except when necessary to target areas where adult mosquitoes are present, and weather conditions will facilitate movement of applied material away from the water in order to minimize incidental deposition into the water body. Do not contaminate bodies of water when disposing of equipment rinsate or washwaters.

This product is highly toxic to bees exposed to direct treatment on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds while bees are foraging the treatment area, except when applications are made to prevent or control a threat to public and/or animal health determined by a state, tribal or local health or vector control agency on the basis of documented evidence of disease causing agents in vector mosquitoes, or the occurrence of mosquito-borne disease in animal or human populations, or if specifically approved by the state or tribe during a natural disaster recovery effort.

DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

USE RESTRICTIONS

This product is not for use in outdoor residential misting systems. Do not apply this product with thermal fogging equipment. Do not apply this product in enclosed spaces using hand-held or portable backpack spray equipment. Do not make applications during rain.

For use only by federal, state, tribal or local government officials responsible for public health or vector control, or by persons certified in the appropriate category or otherwise authorized by the state or tribal lead pesticide regulatory agency to perform adult mosquito control applications, or by persons under their direct supervision.

IN CALIFORNIA: This product is to be applied by County Health Department, State Department of Health Services, Mosquito and Vector Control or Mosquito Abatement District personnel, or persons under contract to these entities only.

IN FLORIDA: Aerial applications of this product require trained personnel to perform industry accepted assays to monitor resistance formation in targeted mosquitoes.

The maximum application rate for wide-area mosquito adulticide applications is 0.0025 lb a.i./acre per day. When targeting *Aedes taeniorhynchus* and other difficult species, applications may be made up to 0.008 lb a.i./acre/day.

Do not apply more than 0.2 lb a.i./acre/year in any treated area. More frequent treatments may be made to prevent or control a threat to public and/or animal health determined by a state, tribal, or local health or vector control agency on the basis of documented evidence of disease causing agents in vector mosquitoes or the occurrence of mosquito-borne disease in animal or human populations, or if specifically approved by the state or tribe during a natural disaster recovery effort.

SPRAY DRIFT MANAGEMENT for WIDE AREA MOSQUITO ABATEMENT

A variety of factors including weather conditions (e.g., wind direction, wind speed, temperature, relative humidity) and method of application (e.g., ground, aerial, airblast, chemigation) can influence pesticide drift. The applicator must evaluate all factors and make appropriate adjustments when applying this product.

WIND SPEED: Apply only when wind speed is greater than 1 mph.

USE INFORMATION

MERUS® 3.0 is approved for application as an Ultra Low Volume (ULV) non-thermal aerosol (cold fog) in mosquito adulticiding programs involving outdoor residential, urban, industrial, and recreational areas where adult mosquitoes are present in annoying numbers, and in vegetation surrounding parks, woodlands, swamps, marshes, overgrown areas and golf courses.

MERUS® 3.0 may be applied over crops or to areas favoring drift over crops, including row, tree, fruit, citrus, pasture and other areas where agricultural enterprises take place.

MERUS® 3.0 may be used undiluted or diluted with suitable light mineral oil and applied as an ultra low volume (ULV) non-thermal aerosol (cold fog) or in suitable mechanical spray equipment. MERUS® 3.0 cannot be diluted in water.

SPRAY DROPLET SIZE DETERMINATION

Ground-based wide-area mosquito abatement application: Spray equipment must be adjusted so that the volume median diameter is less than 30 microns (Dv 0.5 < 30 µm) and that 90% of the spray is contained in droplets smaller than 50 microns (Dv 0.9 < 50 µm). Directions from the equipment manufacturer or vendor, pesticide registrant, or a test facility using a laser-based measurement instrument must be used to adjust equipment to produce acceptable droplet size spectra. Application equipment must be tested at least annually to confirm that pressure at the nozzle and nozzle flow rate(s) are properly calibrated.

Aerial wide-area mosquito abatement application: Spray equipment must be adjusted so that the volume median diameter produced is less than 60 microns (Dv 0.5 < 60 µm) and that 90% of the spray is contained in droplets smaller than 80 microns (Dv 0.9 < 80 µm). The effects of flight speed, and for non-rotary nozzles, nozzle angle on the droplet size spectrum must be considered. Directions from the equipment manufacturer or vendor, pesticide registrant, or a test facility using a wind tunnel and laser-based measurement instrument must be used to adjust equipment to produce acceptable droplet size spectra. Application equipment must be tested at least annually to confirm that pressure at the nozzle and nozzle flow rate(s) are properly calibrated.

GROUND ULV APPLICATION

To control Mosquitoes, apply MERUS® 3.0 at a flow rate of 3.4 to 5.3 fluid ounces per minute at an average vehicle speed of 10 MPH using a swath width of 300 feet for acreage calculations (see chart below). These rates are equivalent to 0.0016 to 0.0025 lb a.i./acre. Within this range, vary flow rate according to vegetation density and mosquito population. Use higher rate in heavy vegetation or when pest population numbers are high. For best results, apply when mosquitoes are most active and meteorological conditions are conducive to keeping the spray cloud close to the ground. Application in calm air conditions is to be avoided. Apply only when ground wind speed is greater than or equal to 1 MPH. All types of applications should be conducted at temperatures above 50°F.

Use the following table to calculate application rates:

lb a.i./acre	Application Rates (Fl.oz./Minute) at vehicle speeds of:				Fl. oz. MERUS® 3.0/acre
	5 MPH	10 MPH	15 MPH	20 MPH	
0.0025	2.7	5.3	8.0	10.6	0.88
0.0021	2.2	4.5	6.7	8.9	0.74
0.0018	1.9	3.8	5.7	7.7	0.63
0.0016	1.7	3.4	5.1	6.8	0.56

Applications up to 2.81 fl.oz. (0.008 lb a.i.)/acre may be made when targeting *Aedes taeniorhynchus* or other difficult to control species.

lb a.i./acre	Application Rates (Fl.oz./Minute) at vehicle speeds of:				Fl. oz. MERUS® 3.0/acre
	5 MPH	10 MPH	15 MPH	20 MPH	
0.008	8.5	17.0	25.5	34.0	2.81

If dilution is preferred, adjust the flow rate accordingly to achieve 0.0016 to 0.0025 lb a.i./acre. Applicable flow rates for a 1 part concentrate to 1 part oil dilution are presented. If an alternate dilution rate is used, adjust the flow rate accordingly.

Rates to use a 2.5% pyrethrins dilution (1 to 1 dilution ratio) for mosquito control:

lb a.i./acre	Application Rates (Fl.oz./Minute) at vehicle speeds of:				Fl. oz. Finished Spray/acre
	5 MPH	10 MPH	15 MPH	20 MPH	
0.0025	5.3	10.6	15.9	21.3	1.75
0.0021	4.5	8.9	13.4	17.9	1.47
0.0018	3.8	7.7	11.5	15.3	1.26
0.0016	3.4	6.8	10.2	13.6	1.12

Urban ULV Mosquito Control: MERUS® 3.0 may be applied for control of resting or flying adult mosquitoes in urban and industrial areas such as utility tunnels, pipe chases, underground basements, underground passages, parking decks, open parking garages, abandoned warehouses, crawl spaces, uninhabited buildings, rail yards, waste yards, junkyards, tire dumps, and other areas where adult mosquitoes might be found. Apply using handheld or truck-mounted ULV equipment, or other spray equipment suitable for this application. Apply at rates up to but not exceeding 0.0025 lb a.i./acre/day (0.88 fluid ounces of undiluted spray/acre/day). Do NOT use hand-held equipment for this type of application in enclosed spaces.

MERUS® 3.0 may also be applied with non-thermal, portable, motorized backpack equipment adjusted to deliver ULV particles of less than 100 microns VMD. Use 0.56 to 0.88 fl.oz. of the undiluted spray per acre (equal to 0.0016 to 0.0025 lb.a.i./acre)

as a 50 ft (15.2 m) swath while walking at a speed of 2 MPH (3.2 KPH). Dilute with a suitable mineral oil if dilution is preferred. Do NOT use portable backpack equipment for application in enclosed spaces.

AERIAL APPLICATION

Apply using nozzle height of no less than 100 feet for fixed wing aircraft or 75 feet for rotary wing aircraft above the ground or canopy, unless specifically approved by the state or tribe based on public health needs.

Apply by suitable fixed wing or rotary aircraft equipped with nozzles capable of producing a non-thermal (cold fog) aerosol spray cloud with appropriately sized droplets. Flow rate and swath width should be set so as to achieve 0.56 to 0.88 fluid ounces of undiluted MERUS® 3.0 per acre.

MERUS® 3.0 may also be diluted with suitable diluent light mineral oil and applied by suitable aircraft at appropriate flow rates to achieve a dosage of 0.0016 to 0.0025 lb a.i./acre. Diluted or undiluted, applications up to 2.81 fl.oz. MERUS® 3.0 (0.008 lb a.i.)/acre/day may be made when targeting *Aedes taeniorhynchus* or other difficult to control species.

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

PESTICIDE STORAGE: Store in a cool, dry place. Keep container closed.

PESTICIDE DISPOSAL: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

CONTAINER HANDLING:

For Nonrefillable containers of 5 gallons or less. Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with mineral oil and recap. Shake for 10 seconds. Pour rinsate into application equipment or a rinse tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Offer for recycling if available or reconditioning if appropriate, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

For Refillable Containers. Refillable container. Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into rinsate collection system. Repeat this rinsing procedure two more times. Offer for recycling if available or reconditioning if appropriate, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. **For medical emergencies or information on health concerns for this product, you may call 1-800-214-7753.** For non-emergency information, on product usage for example, call 1-800-323-5727. In case of transportation emergency, call INFO-TRAC 1-800-553-5053.

NOTICE: To the extent consistent with applicable law, Clarke Mosquito Control Products, Inc. makes no other warranties, express or implied, of merchantability or of fitness for a particular purpose or otherwise, that extend beyond the statements made on this label. To the extent consistent with applicable law, Buyer assumes all risk of use/handling of this material when use and/or handling is contrary to label instructions.

MERUS®-Trademark of Clarke Mosquito Control Products, Inc.

MANUFACTURED BY

CLARKE MOSQUITO CONTROL PRODUCTS, INC.

159 N. GARDEN AVENUE
ROSELLE, ILLINOIS 60172

EPA Reg. No.:8329-108

EPA Est. No.: _____

Lot No.: Marked on Container Label

Available Container Sizes: 2.5 gal, 30 gal, 55 gal, 275 gal

Dynamic Aviation - Partner

The Clarke and Dynamic Aviation Partnership is the leading provider of mosquito control application services to federal, state and local governments throughout the United States. Our combined experience ensures the reliability demanded by public health officials facing emergencies arising from hurricanes, flooding, and outbreaks of mosquito-borne diseases, such as West Nile virus (WNV). Since 2003, the Clarke and Dynamic Aviation Partnership have sprayed over 43 million acres in twenty states for mosquito control and emergency response situations.

Clarke has 40 years of experience responding to disasters such as hurricanes. Clarke has been contracted to respond to nearly every hurricane or tropical storm that has impacted the United States. We have dispatched both aircraft and ground ULV trucks to help counties or states control mosquitoes so first responders can effectively and safely work to assist residents in putting their lives back together.

Here in Florida, when there is a major hurricane or storm, the Department of Agriculture (FDACS) contracts directly with Clarke for both aerial spraying and ground ULV truck spraying. FEMA is generally paying for most of the emergency spraying. In response to Hurricane Irma in 2017, Clarke brought in seven aircraft and seven ULV trucks under contract with FDACS emergency response. Clarke, partnering with subcontractor Dynamic Aviation, treated 1,536,869.1 acres across nine counties from September 22nd-October 6th.



The following chart summarizes the major emergency aerial ULV events the Clarke-Dynamic Aviation Partnership responded to by state and situation, in which, customer expectations were fulfilled, since 2003:

Year	State(s)	Event	Acres
2003	CO - SD	WNV	225,000
2004	FL	<i>Charley-Jeanne-Frances-Ivan</i>	3,956,765
2005	FL-LA-MS-AL	<i>Dennis - Katrina - Rita</i>	3,180,533
2006	MA	EEE	550,592
2007	CA	WNV	586,982
2008	FL - TX	<i>Dolly - Ike - Fay</i>	4,070,443
2010	MA	EEE	288,088
2011	KY	Flood	703,391
2012	TX - LA - MA	WNV - EEE - <i>Isaac</i>	2,068,688
2013	KY	Flood	128,384
2014	TX - LA	WNV	599,155
2015	SC - NY	<i>EEE - Joaquin</i>	137,591
2017	TX - FL	<i>Harvey - Irma</i>	3,995,096
2018	NC - FL	<i>Florence - Michael</i>	240,468
2019	MA - RI - MI	EEE	2,794,956
2020	MA - MI - LA	EEE-WNV-Flood-Laura-Beta-Delta	2,321,136
TOTAL ACRES			25,847,268

Clarke/Dynamic Aviation will provide Indian River County with FAA approved aircraft with increased load capacity, speed, quiet operation, power and safety margin for precision targeting and precision timing of ULV applications. Clarke shall provide all labor, equipment, supplies, insurance, and any other requirements to complete the terms, conditions and specifications herein. Any other fees, etc. are the responsibility of Clarke /Dynamic Aviation.

As a partnership, Clarke and Dynamic Aviation are able to provide an expert aerial application program with the following credentials and advantages for Indian River County:

- Utilize **FAA Part 137-compliant, twin-engine, turbine-powered aircraft (Beechcraft King Air) that provide a superior margin of safety:**
- With one engine out, King Air turbine aircraft are exempt from dumping the load (fuel or insecticide) over congested areas.
- With one engine out, King Air turbine aircraft meet the single engine rate of climb requirement.

- The aircraft are equipped with Ag Nav® and FlightMaster® guidance systems. Navigation is linked to the onboard AIMMS-20 real-time weather system for the offset calculation to ensure optimal adult mosquito population efficacy.
 - Post mission GIS maps and reports, verifying aircraft performance and flight paths, acres sprayed, and amount of insecticide applied.
 - Record-keeping provided to Indian River County for NPDES reporting requirements.
- **Military grade night vision goggles (NVG) worn by both captain and first officer for optimal safety of aerial.**
- Capable of treating 20,000 acres per hour per aircraft
 - FAA approved congested area plan for approval to spray at a low-level altitude.
 - Treatment altitude: 300'.
 - Annual state-of-the-art pilot training program including FAA rules and regulations, low-level aerial spraying procedures, NVG certification, and flight simulator training for maximum proficiency and safety.
 - Assistance with GIS mapping of spray blocks
 - Public relations program and support
 - Auto-flow control spray system for precise insecticide application and documentation.
 - Flexible and on-demand application.
 - Sky Connect Real-Time Flight Tracking System & website link provided to Indian River County for real-time monitoring of the spray mission progress
 - Pesticide flow-metering for insecticide dosage rate precision
 - Pesticide loading in compliance with Federal and State guidelines

AERIAL APPLICATION EQUIPMENT AVAILABLE

Beechcraft King Air

A fleet of King Air twin turbine aircraft equipped with dual Micronair nozzles and on-board meteorological instrumentation combined with FlightMaster and AgNav software to ensure the proper applications and off-sets for variable wind conditions on the ground.



AGNAV GPS Navigation System

Each Dynamic King Air is equipped with an on board GPS navigation system, AGNAV, that is accurate down to one foot. They also have on-board weather systems that provide important weather information at spray altitude. This on-board weather system provides wind speed, wind direction, temperature and humidity throughout the spray mission. This allows the pilot to make adjustments throughout the spray mission to adjust the offsets and direction of the spray drift to maximize mosquito efficacy.



AGNAV system installed on aircraft

Night Vision Goggles

Dynamic pilots are trained and certified in the use of military grade night vision goggles. Each mission flown for Indian River County will be flown with 2 qualified pilots—not a pilot and a spotter.



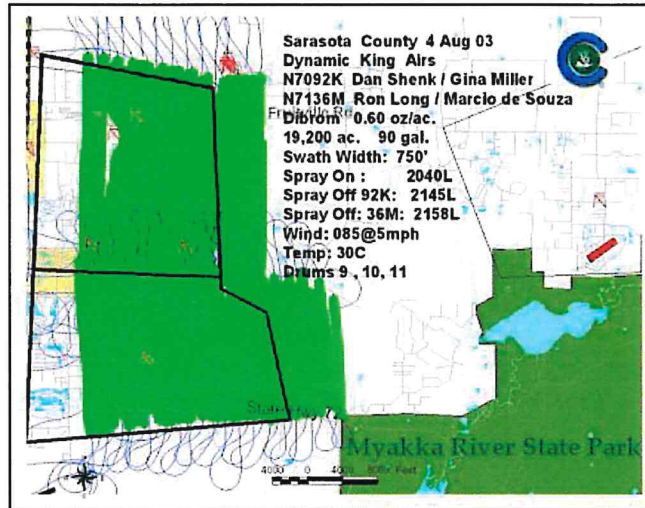
Pilot demonstrating NVG



Pilots' view through NVG

Post-Application Summary

Within 48-hours after the application, Clarke will provide a post-application mission summary containing a map of the treatment area, the treatment swath, area size, product and application rate, sprayed volume, sprayed area, and meteorological conditions.



CERTIFICATE OF INSURANCE

This certificate cancels and supersedes ALL previously issued certificates.

DATE ISSUED

3/6/2023

NAMED INSURED:

Dynamic Aviation Group, Inc.
P.O. Box 7
1402 Airport Road
Bridgewater VA 22812

CERTIFICATE HOLDER:

To Whom It May Concern

This is to certify that the following policy(s), subject to the terms, conditions, limitations and endorsements contained therein, and during their effective period, have been issued by the company(s) indicated below. In the event of material change or cancellation of said policy(s), the company will endeavor to notify the certificate holder, but failure to do so shall impose no liability or obligation of any kind upon the undersigned or the company(s) involved.

Policy Type: AIRCRAFT HULL & LIABILITY

Insurance Company: Commerce and Industry Insurance Company (25%) 19410

Other Insurers: Starr Indemnity & Liability Company (25%), Global Aerospace, Inc. (25%), AXA XL Aviation (25%)

Policy Number(s): AV3383175-28

Policy Period: 1 Jul 2022 to 1 Jul 2023 at 12:01am at the Named Insured's address

Policy Territory: Worldwide

Aircraft Liability:	\$10,000,000 Combined Single Limit - Bodily Injury & Property Damage \$1,000,000 Per Passenger
Aerial Application Coverage (Chemical Drift):	\$500,000 Each Occurrence & Aggregate Limit

Policy Type: COMMERCIAL AUTO

Insurance Company: TRAVELERS PROPERTY CASUALTY COMPANY OF AMERICA

Policy Number(s): BA-2W350350-22-91-G

Policy Period: 31 Dec 2022 to 31 Dec 2023 at 12:01am at the Named Insured's address

Policy Territory:

Combined Single Limit	\$1,000,000 Each Accident
HIRED OR BORROWED COVERED AUTO COVERAGE	\$1,000,000 Each Accident
HIRED OR BORROWED COVERED AUTO DEDUCTIBLE	\$1,000 Each Accident

Policy Type: EXECUTIVE LIABILITY

Insurance Company: Global Aerospace Underwriters 524210

Policy Number(s): 348354

Policy Period: 20 Sep 2022 to 20 Sep 2023 at 12:01am at the Named Insured's address

Policy Territory:

Each Occurrence	\$5,000,000
Deductible	\$25,000

This certificate or verification of insurance is not an insurance policy and does not amend, extend or alter the coverage afforded by the policies listed herein. Notwithstanding any requirement, term or condition of any contract or other document, with respect to which this certificate or verification of insurance may be issued or may pertain, the insurance afforded by the policies described herein is subject to all terms, exclusions and conditions of such policies.

Re: 01AV003383175-28 N61Q, N70U, N72J, N78D and N79W. \$10,000,000 CSL Bodily Injury and Property Damage. Passengers limited to \$1,000,000. Aerial Application (Chemical Drift) \$500,000.

NOTICE OF CANCELLATION: IN THE EVENT OF MATERIAL CHANGE OR CANCELLATION OF SAID POLICY(S), THE COMPANY(S) SHALL GIVE 30 DAYS WRITTEN NOTICE TO THE CERTIFICATE HOLDER WITH THE EXCEPTION OF A 10 DAY NOTICE FOR NON-PAYMENT OF PREMIUM.

AssuredPartners Aerospace
25548 Genesee Trail Road
Golden, CO 80401



Rob Wetzig

Authorized Signature

AVIATION (02/2010)

CERTIFICATE OF INSURANCE

This certificate cancels and supersedes ALL previously issued certificates.

DATE ISSUED

3/6/2023

NAMED INSURED:

Dynamic Aviation Group, Inc.
P.O. Box 7
1402 Airport Road
Bridgewater VA 22812

CERTIFICATE HOLDER:

To Whom It May Concern

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Policy Type: GENERAL LIABILITY COVERAGES

Insurance Company: Commerce and Industry Insurance Company (25%) 19410

Other Insurers: Starr Indemnity & Liability Company (25%), Global Aerospace, Inc. (25%), AXA XL Aviation (25%)

Policy Number(s): AP-015436793-26

Policy Period: 1 Jul 2022 to 1 Jul 2023 at 12:01am at the Named Insured's address

Policy Territory: Worldwide

Each Occurrence	\$50,000,000
Damage to Rented Premises	\$1,000,000 Each Occurrence
Medical Expenses	\$25,000 Any One Person
Personal & Advertising Injury	\$25,000,000 Aggregate
Products & Completed Operations	\$50,000,000 Aggregate
Excess Auto Liability Coverage	\$2,000,000 Excess of \$1,000,000
On Airport Premises Auto Coverage	\$1,000,000 Each Occurrence

Policy Type: WORKERS COMPENSATION & EMPLOYERS LIABILITY

Insurance Company: Starr Aviation Agency 38318

Policy Number(s): 1000004036

Policy Period: 31 Dec 2022 to 31 Dec 2023 at 12:01am at the Named Insured's address

Policy Territory:

Employers Liability:

Bodily Injury by Accident	\$1,000,000 Each Accident
Bodily Injury by Disease	\$1,000,000 Policy Limit
Bodily Injury by Disease	\$1,000,000 Each Employee

This certificate or verification of insurance is not an insurance policy and does not amend, extend or alter the coverage afforded by the policies listed herein. Notwithstanding any requirement, term or condition of any contract or other document, with respect to which this certificate or verification of insurance may be issued or may pertain, the insurance afforded by the policies described herein is subject to all terms, exclusions and conditions of such policies.

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AssuredPartners Aerospace
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Golden, CO 80401



Rob Wetzig

Authorized Signature

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3/6/2023

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P.O. Box 7
1402 Airport Road
Bridgewater VA 22812

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To Whom It May Concern

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Policy Type: CYBER LIABILITY

Insurance Company: Axis Specialty 37273

Policy Number(s): Q-001-000630480-02

Policy Period: 15 Jul 2022 to 15 Jul 2023 at 12:01am at the Named Insured's address

Policy Territory:

Policy Limit: \$5,000,000 Aggregate
Deductible: \$50,000 Aggregate

Policy Type: POLLUTION LEGAL LIABILITY

Insurance Company: Admiral Insurance Company 24856

Policy Number(s): FEI-EIL-19430-08

Policy Period: 1 Jul 2022 to 1 Jul 2023 at 12:01am at the Named Insured's address

Policy Territory:

Environmental Impairment Liability. \$5,000,000
Per Pollution Condition: \$5,000,000
Aggregate Limit for all Pollution Conditions: \$25,000 Per Pollution Condition
Deductible:
Contractors Pollution Liability. \$5,000,000 Each Occurrence
Damages Limit: \$5,000,000 Aggregate
General Aggregate: \$5,000,000 Each Claim
Claims Expense Limit: \$5,000,000 Aggregate
Claims Expense Aggregate: \$25,000 Per Pollution Condition
Deductible:

This certificate or verification of insurance is not an insurance policy and does not amend, extend or alter the coverage afforded by the policies listed herein. Notwithstanding any requirement, term or condition of any contract or other document, with respect to which this certificate or verification of insurance may be issued or may pertain, the insurance afforded by the policies described herein is subject to all terms, exclusions and conditions of such policies.

ADDITIONAL AGREEMENTS:

Re: 01AV003383175-28 N61Q, N70U, N72J, N78D and N79W. \$10,000,000 CSL Bodily Injury and Property Damage. Passengers limited to \$1,000,000. Aerial Application (Chemical Drift) \$500,000.

NOTICE OF CANCELLATION: IN THE EVENT OF MATERIAL CHANGE OR CANCELLATION OF SAID POLICY(S), THE COMPANY(S) SHALL GIVE 30 DAYS WRITTEN NOTICE TO THE CERTIFICATE HOLDER WITH THE EXCEPTION OF A 10 DAY NOTICE FOR NON-PAYMENT OF PREMIUM.

AssuredPartners Aerospace
25548 Genesee Trail Road
Golden, CO 80401



Rob Wetzig

Authorized Signature

AVIATION (02/2010)

	Employment Start Date	Pilot Certification Conforming To FAR Part 137 Requirements	Issue Date	Total Flight Hours	PIC Hours	Total Aerial Application Hours	Total Aerial Application Years	Total NVG Hours	Pilot Grade	Pilot Ratings	BFR Due Date	Medical Issue Date	Medical Class	NVG FAR 61.31 (k) initial Sign Off
John Calhoun	7/23/2018	3045471	10/22/2016	13185.9	12628.8	836.6	12	2263.93	ATP	ASEL, AMEL	3/31/2024	7/13/2022	2nd	5/14/2010
Todd Early	6/20/2016	3688319	12/5/2022	3200.3	1365.3	653.9	5	97.70	ATP	ASEL, AMEL	4/30/2024	5/5/2022	1st	9/9/2017
Dustin Hill	7/11/2011	3152872	12/9/2009	5218.1	3056.5	3096.6	5	178.10	Com	ASEL, AMEL	4/30/2024	11/1/2022	1st	9/16/2017
Michael Labady	4/7/2014	3347166	12/16/2018	3878.4	2404.6	1748.6	5	341.90	Com	ASEL, AMEL	4/30/2024	5/17/2022	2nd	4/13/2017
Harry Moyer	5/2/2016	3319361	5/3/2015	17215.1	13757.0	368.3	5	20.80	ATP	ASEL, AMEL	4/30/2024	11/23/2022	1st	9/21/2017

STATE OF FLORIDA
 Department of Agriculture and Consumer Services
 BUREAU OF LICENSING AND ENFORCEMENT

Date	File No.	Expires
June 23, 2021	PH264154	September 20, 2025

THE PUBLIC HEALTH PEST CONTROL LICENSE HOLDER NAMED
 BELOW HAS REGISTERED UNDER THE PROVISIONS OF CHAPTER
 388 FOR THE PERIOD EXPIRING: September 20, 2025

Aerial Applicator

HARRY R MOYER
 P O BOX 94
 MOUNT CRAWFORD, VA 22841

Nicole Fried
 NICOLE "NIKKI" FRIED, COMMISSIONER

STATE OF FLORIDA
 Department of Agriculture and Consumer Services
 BUREAU OF LICENSING AND ENFORCEMENT

HARRY R MOYER
 PUBLIC HEALTH PEST CONTROL LICENSE HOLDER

PH264154
 HAS PAID THE FEE REQUIRED BY CHAPTER 388 FOR THE PERIOD
 EXPIRING September 20, 2025

Nicole Fried Signature
 COMMISSIONER

Wallet Card - Fold Here

BUREAU OF LICENSING & ENFORCEMENT
 3125 CONNER BLVD, BLDG. 8
 TALLAHASSEE, FLORIDA 32399-1650

STATE OF FLORIDA
 Department of Agriculture and Consumer Services
 BUREAU OF LICENSING AND ENFORCEMENT

Date	File No.	Expires
January 12, 2022	PH264182	September 21, 2025

THE PUBLIC HEALTH PEST CONTROL LICENSE HOLDER NAMED
 BELOW HAS REGISTERED UNDER THE PROVISIONS OF CHAPTER
 388 FOR THE PERIOD EXPIRING: **September 21, 2025**

DUSTIN NIKOLAS HILL Aerial Applicator
 5224 23RD ST W
 BRADENTON, FL 34207-2318

Nicole Fried
 NICOLE "NIKKI" FRIED, COMMISSIONER

STATE OF FLORIDA
 Department of Agriculture and Consumer Services
 BUREAU OF LICENSING AND ENFORCEMENT

DUSTIN NIKOLAS HILL
 PUBLIC HEALTH PEST CONTROL LICENSE HOLDER

PH264182
 HAS PAID THE FEE REQUIRED BY CHAPTER 388 FOR THE PERIOD
 EXPIRING **September 21, 2025**

Nicole Fried Signature
 COMMISSIONER

Wallet Card - Fold Here

BUREAU OF LICENSING & ENFORCEMENT
 3125 CONNER BLVD, BLDG. 8
 TALLAHASSEE, FLORIDA 32399-1650

STATE OF FLORIDA
Department of Agriculture and Consumer Services
BUREAU OF LICENSING AND ENFORCEMENT

Date September 17, 2020 File No. PH8828 Expires December 22, 2024

THE PUBLIC HEALTH PEST CONTROL LICENSE HOLDER NAMED
BELOW HAS REGISTERED UNDER THE PROVISIONS OF CHAPTER
388 FOR THE PERIOD EXPIRING: December 22, 2024

JOHN C CALHOON
48 LOFTON DR
WEYERS CAVE, VA 24486

Regular
Aerial Applicator

Nicole "Nikki" Fried
NICOLE "NIKKI" FRIED, COMMISSIONER

STATE OF FLORIDA
Department of Agriculture and Consumer Services
BUREAU OF LICENSING AND ENFORCEMENT

JOHN C CALHOON
PUBLIC HEALTH PEST CONTROL LICENSE HOLDER

PH8828

HAS PAID THE FEE REQUIRED BY CHAPTER 388 FOR THE PERIOD
EXPIRING December 22, 2024

Nicole "Nikki" Fried Signature
COMMISSIONER

Wallet Card - Fold Here

BUREAU OF LICENSING & ENFORCEMENT
3125 CONNER BLVD, BLDG. 8
TALLAHASSEE, FLORIDA 32399-1650



RECEIVED
3/15/23
10 AM-

Aerial Mosquito Adulticiding Services

Provided to:

Indian River Mosquito Control District
5655 41st Street
Vero Beach, FL 32967
Phone: 772-562-2393
Email: l.ridley@irmosquito2.org

Provided by:

Vector Disease Control International (VDCI)

Due Date:

March 15, 2023, at 12:00 PM



INDIAN RIVER MOSQUITO CONTROL DISTRICT
AERIAL ADULTICIDING BID FORM

This bid allows for a 2-year contract. The duration of this agreement will be from May 1, 2023 through April 30, 2024, with a renewal option contingent on satisfactory performance for May 1, 2024 through April 30, 2025.

I. AIRCRAFT, PILOTS & SPRAY EQUIPMENT

- A. Specify the type and number of aircraft available. PA23-250 Piper Aztec. Two Aircraft.
1. What is your swath width? 1,000 ft.
2. Type of spray equipment available. Rotary Atomizers
3. Rotary atomizer technology (or equivalent): Provide brief description. Micronair AU4000 Rotary Atomizers
Droplet Analysis:
a) Method: VDCI uses Drop Vision to determine the Droplet VMD
b) Results: Dibrom 34.8 VMD

B. Pilot's Certification

- 1. Guarantee that at least one pilot with Public Health Pest Control and Aerial Applicator's licenses from the FDACS is always available. YES NO
2. Number of pilots with FDACS Public Health Pest Control and Aerial Applicator's licenses that are available at all times. 5
3. How many pilots do you have who are certified to pilot the aircraft for mosquito control aerial adulticide missions and are competent to use your GPS equipment? Please include their duration of experience conducting this type of work. 9. On average, 3-6 years of experience.

II. NPDES

IRMCD is required to comply with NPDES permitting for discharge of pesticides. Is bidder prepared to comply with NPDES equipment operator requirements? YES NO

III. GLOBAL POSITIONING SYSTEM (GPS) EQUIPMENT

- A. What type of GPS swath guidance equipment is used in your aircraft? Wingman GS Full Spray Cloud Modeling
B. Does this GPS equipment allow you to fully "outline" the area(s) to be sprayed so that spray on-spray off spots are delineated? YES NO
C. Does this include equipment with modeling capabilities to allow proper offsetting based on weather conditions measured at the aircraft? Please describe.
Yes, VDCI uses the AIMMS 20 and AIMMS 30 meteorological data probe.



D. Is the data (e.g., snail-trail) from your GPS equipment "ESRI" compatible (.shp files)? YES NO

IV. SPRAYING AVAILABILITY

- A. During the agreement period, after you are contacted to spray, how soon can spraying begin?
48-hours or less. _____
- B. What airport do you anticipate the mission flying from? Vero Beach
- C. What is the maximum load for Dibrom? 60 GAL
- D. Can we drop ship the Dibrom to your take-off location? Yes
- E. If so, what is the storage capacity for Dibrom at your take-off location? Uncapped

V. CONGESTED AREA FLIGHT PLAN

- A. Successful bidder must apply through the FAA for a congested area flight plan (CAFP) within 30 days of receiving the bid award. Do you have experience obtaining a CAFP in the FSDO which covers Indian River County? YES NO
- B. Do you currently have a CAFP covering Indian River County? YES NO
- C. If not, how long do you anticipate it will take to receive a CAFP for IRMCD? _____

VI. INSURANCE COVERAGE

- A. Please explain your insurance coverage (include coverage limits, carrier name, address, phone # and contact person). See attached.

- B. Is a copy of the insurance coverage included with this bid? YES NO
- C. Can the District be included on bidder's policy as a "Named Insured"? YES NO
- D. Can the District be granted a "waiver of subrogation rights" by insurance company? YES NO
- E. Are all your employees working on this project covered by Workers Comp? YES NO

VII. PRICING

Do you agree to allow other agencies to participate in this agreement (piggyback)? YES NO



Prices for Year One – May 1, 2023 through April 30, 2024

Using rotary atomizer technology (or equivalent) and bidder loading Dibrom:

Application Rate	Price per acre with <u>Bidder</u> supplying Dibrom	Price per acre with <u>IRMCD</u> supplying Dibrom
0.4 oz. per acre	\$1.61 per acre	\$.74 per acre
0.6 oz. per acre	\$2.07 per acre	\$.76 per acre
1.0 oz. per acre	\$2.96 per acre	\$.78 per acre

Any special provisions? N/A

Prices for Year Two – May 1, 2024 through April 30, 2025

Using rotary atomizer technology (or equivalent) and bidder loading Dibrom:

Application Rate	Price per acre with <u>Bidder</u> supplying Dibrom	Price per acre with <u>IRMCD</u> supplying Dibrom
0.4 oz. per acre	\$1.66 per acre	\$.75 per acre
0.6 oz. per acre	\$2.14 per acre	\$.77 per acre
1.0 oz. per acre	\$3.08 per acre	\$.79 per acre

Any special provisions? N/A



Bidder Information

Company Name Vector Disease Control International (VDCI)

Address 1320 Brookwood Drive, Suite H, Little Rock, AR 72202

Phone 540-908-7747 Fax 866-839-8595

Email jsandridge@vdc.net

Name Jay Sandridge Title Business Development Director

Signature *Jay Sandridge* Date 3/14/2023



CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)

9/21/2022

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER Edgewood Partners Insurance Center 5909 Peachtree Dunwoody Road, Suite 800 Atlanta GA 30328	CONTACT NAME: Certificate Unit	
	PHONE (A/C, No, Ext): 404-781-1700	FAX (A/C, No):
E-MAIL ADDRESS: certificate@epicbrokers.com		
INSURER(S) AFFORDING COVERAGE		NAIC #
INSURER A: ACE American Insurance Company		22667
INSURER B: ACE Property & Casualty Insurance Company		20699
INSURER C: Arch Insurance Company		11150
INSURER D: Arch Indemnity Insurance Company		30830
INSURER E: Allianz Underwriters Insurance Company		36420
INSURER F: Starr Indemnity & Liability Company		38318

INSURED RENTOKI-01
 Vector Disease Control International, LLC.
 Rentokil North America, Inc. (REN456)
 1320 Brookwood Drive, Suite H
 Little Rock AR 72202-1412

COVERAGES

CERTIFICATE NUMBER: 1848904203

REVISION NUMBER:

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
A	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: <input checked="" type="checkbox"/> POLICY <input checked="" type="checkbox"/> PRO-JECT <input checked="" type="checkbox"/> LOC OTHER:			OGLG27240331	10/1/2022	10/1/2023	EACH OCCURRENCE	\$ 5,000,000
							DAMAGE TO RENTED PREMISES (Ea occurrence)	\$ 5,000,000
							MED EXP (Any one person)	\$ 5,000
							PERSONAL & ADV INJURY	\$ 5,000,000
							GENERAL AGGREGATE	\$ 5,000,000
							PRODUCTS - COMP/OP AGG	\$ 5,000,000
								\$
C	AUTOMOBILE LIABILITY <input checked="" type="checkbox"/> ANY AUTO OWNED AUTOS ONLY HIRED AUTOS ONLY SCHEDULED AUTOS NON-OWNED AUTOS ONLY			31CAB1044402 31CAB1044502	10/1/2022 10/1/2022	10/1/2023 10/1/2023	COMBINED SINGLE LIMIT (Ea accident)	\$ 3,000,000
							BODILY INJURY (Per person)	\$
							BODILY INJURY (Per accident)	\$
							PROPERTY DAMAGE (Per accident)	\$
								\$
B	UMBRELLA LIAB <input checked="" type="checkbox"/> OCCUR EXCESS LIAB DED <input checked="" type="checkbox"/> RETENTION \$ 10,000			XOOG27239420	10/1/2022	10/1/2023	EACH OCCURRENCE	\$ 5,000,000
							AGGREGATE	\$ 5,000,000
								\$
D	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below			31WCI1044202 34WCI1044302	10/1/2022 10/1/2022	10/1/2023 10/1/2023	<input checked="" type="checkbox"/> PER STATUTE <input type="checkbox"/> OTH-ER	
							E.L. EACH ACCIDENT	\$ 2,000,000
							E.L. DISEASE - EA EMPLOYEE	\$ 2,000,000
							E.L. DISEASE - POLICY LIMIT	\$ 2,000,000
E	CPL (Excluding Aerial Ops)	N	N	U5L00127922	10/1/2022	10/1/2023	Ea Incident/Aggregate	\$5,000,000
F	Aviation Liability/Chemical Drift	N	N	1000642289-01	10/1/2022	10/1/2023	Each Occurrence	\$10M/\$1M (\$4M-Agg)

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)
 CPL = Contractor's Pollution Liability

CERTIFICATE HOLDER**CANCELLATION**

Evidence of Insurance

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

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Attachment F



MEMORANDUM

Date: April 11, 2023

To: Commissioners

From: Sherry Burroughs & Lisa Ridley

Subject: TIMELINE FOR AUDITOR SELECTION PROCESS

The District's contract with the current auditor can be renewed through fiscal year ending 2023 with Board approval. A decision not to renew the agreement with the current auditing firm would necessitate implementation of Statutory guidelines for selection of an auditing firm. The following is a proposed timeline to ensure compliance for the start of FY 2022-2023 audit.

May Board Meeting

- Form Audit Committee (Board of Commissioners)
- Adopt selection procedures (see page 2)
- Review proposed Request for Proposal (draft attached)
- Direct staff to make any revisions and advertise

June Board Meeting

- Review RFPs and evaluation criteria

July Board Meeting

- Rank firms and prepare a list of top three firms
- Direct designee to negotiate with top ranked firm

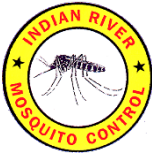
August Board Meeting

- Review proposed contract and, if acceptable, approve contract

SUMMARIZED AUDIT COMMITTEE PROCEDURES

(from F.S. 218.391)

1. ESTABLISH THE AUDITOR SELECTION COMMITTEE who will fulfil the required procedures for selecting an auditing firm.
2. THE AUDIT COMMITTEE WILL ESTABLISH FACTORS TO USE FOR THE EVALUATION OF AUDIT SERVICES TO BE PROVIDED BY A CERTIFIED PUBLIC ACCOUNTING FIRM DULY LICENSED UNDER CHAPTER 473 AND QUALIFIED TO CONTACT AUDITS IN ACCORDANCE WITH GOVERNMENT AUDITING STANDARDS AS ADOPTED BY THE FLORIDA BOARD OF ACCOUNTANCY. Such factors shall include but are not limited to, ability of personnel, experience, ability to furnish the required services, and such other factors as may be determined by the committee to be applicable to its particular requirements.
3. PUBLICLY ANNOUNCE REQUESTS FOR PROPOSALS. The Public Notice must include, at a minimum, a brief description of the audit and indicate how interested firms can apply for consideration.
4. PROVIDE INTERESTED FIRMS WITH A REQUEST FOR PROPOSAL. The request for proposal shall include information on how proposals are to be evaluated and other such information the committee determines is necessary for the firm to prepare a proposal.
5. EVALUATE PROPOSALS PROVIDED BY QUALIFIED FIRMS. If compensation is one of the factors established , it shall not be the sole or predominant factor used to evaluate proposals.
6. RANK AND RECOMMEND IN ORDER OF PREFERENCE NO FEWER THAN THREE FIRMS DEEMED TO BE THE MOST HIGHLY QUALIFIED TO PERFORM THE REQUIRED SERVICES AFTER CONSIDERING THE ESTABLISHED FACTORS. *(If fewer than three firms respond to the request for proposal, the committee shall recommend such firms as it deems to be the most highly qualified.)*
7. ENTER CONTRACT NEGOTIATIONS one firm at a time in order of preference starting with the top-ranked firm. Inability to negotiate a satisfactory contract will formally terminate negotiations with that firm and negotiations will begin with the next ranked firm. The Board may allow a designee to conduct negotiations on its behalf. In the event no satisfactory contract is negotiated with any of the selected firms, the Committee shall select additional firms and shall continue negotiations until an agreement is reached.



INDIAN RIVER MOSQUITO CONTROL DISTRICT
5655 41st Street
VERO BEACH, FLORIDA 32967
PH: 772-562-2393

**REQUEST FOR PROPOSALS FOR
ANNUAL FINANCIAL AUDIT SERVICES**

The Indian River Mosquito Control District is requesting proposals from certified public accounting firms duly licensed under Chapter 473, Florida Statutes, and qualified to conduct audits in accordance with government auditing standards as adopted by the Florida Board of Accountancy to perform the annual audit of the District's financial statements.

Sealed proposals must be received by the Indian River Mosquito Control District at the District's offices located at 5655 41st St. (South Gifford Road), by **Time, Date** at which time they will be opened publicly and read. Proposals received after the cut-off date and time will not be considered. The District time stamp shall be conclusive as to the timeliness of filing. The District is not responsible for the U.S. Mail or private couriers regarding parcels being delivered by a specified time so that a proposal can be considered.

Detailed information required for the proposal, and all necessary information and instructions for submitting proposals may be obtained in person from the office of the Finance Director at the District's offices, between the hours of 7:00 AM and 3:30 PM, workdays, or phone, or email request to:

*Indian River Mosquito Control District
5655 41st Street
Vero Beach, FL 32967
Phone: 772-562-2393
e-mail: L.Ridley@irmosquito2.org*

Applicants and individuals acting on behalf of such applicant should not lobby the District's personnel or Board members since such activity will result in the rejection and disqualification of said applicant for the District Auditor position. For purposes of this Request for Proposals, the term "lobbying" is defined as an action taken by an individual, firm, association, joint venture partnership, syndicate, corporation or others seeking to influence the selection process by or through the District's Board Members or personnel after the initial publication of this Notice and through the time that an award recommendation is issued by the District's Board of Commissioners.

ISSUED at Vero Beach, Florida this **DATE**

INDIAN RIVER MOSQUITO CONTROL DISTRICT

BY: Sherry Burroughs, Executive Director

REQUEST FOR AUDITING SERVICES

The Indian River Mosquito Control District is seeking accountants and accounting firms interested in performing the District's yearly audit and the District's Other Post Employment Benefits Trust yearly audit with a 3-year contract containing an option to renew for an additional 3 years. Typically, the audits are performed in November with a draft report presented to the Board of Commissioners in February or March of each year.

These audits must be conducted in accordance with auditing standards applicable to financial audits for local governmental entities in the United States of America as contained in *Government Auditing Standards*, issued by the Comptroller General of the United States. The audit must also be in compliance with all applicable Governmental Accounting Standard Board (GASB) Statements. This local government audit must meet the requirements of the State of Florida's Auditor General's office.

Proposals will be opened at a public meeting on **DATE**, at the District Office 5655 41st Street, Vero Beach, FL 32967. Information provided in the Proposal shall include the following:

- 1) Title page showing the RFP subject, the name of the firm, address, telephone number, the name of the contact person, and the date.
- 2) A statement setting forth the proposer's understanding of the work to be done and a positive commitment to perform the work within the specified time period.
- 3) The location of the office from which the work is to be done and the number of personnel in that office who would be working on the audit.
- 4) An identification of the partners, managers and supervisors who will work on the audit. Resumes for each managerial and supervisory person to be assigned to the audit should be submitted.
- 5) A description of the proposer's experience in preparing governmental financial statements.
- 6) A listing of Florida counties, municipalities, and special districts for which the proposer is currently providing or within the last five years has provided audit services.
- 7) A statement regarding the amount of the firm's general liability insurance and errors and omissions (i.e. professional) insurance.

Proposals will be evaluated based on the requirements of this Request, the ability of the candidate's personnel, the candidate's experience, the candidate's ability to furnish the required services, past performance, and results of recent external quality control reviews. An overview of the District's operations and a summary of its financial structure are attached.

Questions regarding this request for proposals may be directed to Lisa Ridley, Finance Director at 772-562-2393.

CONDITIONS APPLICABLE TO AUDITING SERVICES PROPOSALS

1. Proposals shall be submitted in sealed envelopes and must be received no later than the time and date specified on the advertisement enclosed as Page 1. Proposals received after the cut-off date and time will not be considered. The District time stamp shall be conclusive as to the timeliness of filing. The District is not responsible for the U.S. Mail or private couriers in regard to parcels being delivered by a specified time so that a proposal can be considered. Proposals are to be delivered or sent to:

Indian River Mosquito Control District
5655 41st Street
Vero Beach, FL 32967

2. Envelopes shall be clearly marked as "**PROPOSAL TO PROVIDE AUDITING SERVICES**" and the bidder's name shall be clearly marked on the envelope.
3. IRMCD's Board of Commissioners, and IRMCD reserve the right to reject any and all proposals.
4. IRMCD's Board of Commissioners, and IRMCD retain the right to request additional information from proposers and failure to provide the information could result in rejection of a proposal.
5. IRMCD's Board of Commissioners, and IRMCD reserve the right to retain proposals and use ideas from them.
6. IRMCD's Board of Commissioners, and IRMCD are not obligated in any manner to reimburse firms for costs incurred in connection with responding to the RFP.
7. Public Records - Florida law provides that the District records shall, at all times, be open for personal inspection by any person. Information and materials received by the District in connection with an RFP response shall be deemed to be public records subject to public inspection upon award, recommendation for award, or 10 days after Proposals opening, whichever occurs first. However, certain exceptions to the public records law are statutorily provided in Section 119.07, Florida Statutes. If the Proposer believes any of the information contained in its response is exempt from disclosure, then the Proposer must in its response specifically identify the material which is deemed to be exempt and cite the legal authority for the exemption. Otherwise, the District will treat all materials received as public records.

8. Evaluation Procedures – All proposals will be reviewed by the District using the criteria below. Firms that meet the mandatory criterion will have their proposals evaluated for technical qualifications, location and previous governmental experience. The following represent the principal selection criteria that will be considered during the evaluation process.

- A. Mandatory Elements

1. The audit firm is independent and licensed to practice in the State of Florida.
2. The firm has no conflict of interest regarding any other work performed by the firm for the District.
3. The firm submits a copy of its most recent external quality control review report (peer review) and the firm has a record of quality of audit work.
4. The firm adheres to the instruction in the RFP on preparing and submitting proposal.
5. Cost for Services and Fees clearly described.

- B. Technical Qualifications (*Scored on basis of 1-5; 1=Acceptable 5=Excellent*)

1. Governmental audit experience.
2. Special District audit experience.
3. Qualifications of individuals assigned to audit.
4. Size and organization structure of firm.
5. Audit approach.
6. Sampling methodology.

Summary of District Financial Structure

1. FY 2022-2023 Budget - \$8 million
2. Payroll - \$2 million
3. State-certified mosquito control program
4. Fund structure - Local and OPEB funds
5. Participation in FEMA grants may reach the single audit threshold
6. Member of Florida Retirement System pension plan
7. Accounting software – QuickBooks Desktop Pro 2022

EXHIBITS

March 2023 District Report

Operations & Surveillance Summary

Rainfall/Weather

- Maximum Tide: 29" on March 17th at St. Christopher
- Total Rainfall: 2.2" at Countyline (south barrier island)
- Maximum Wind: 24 mph March 13th and March 17th

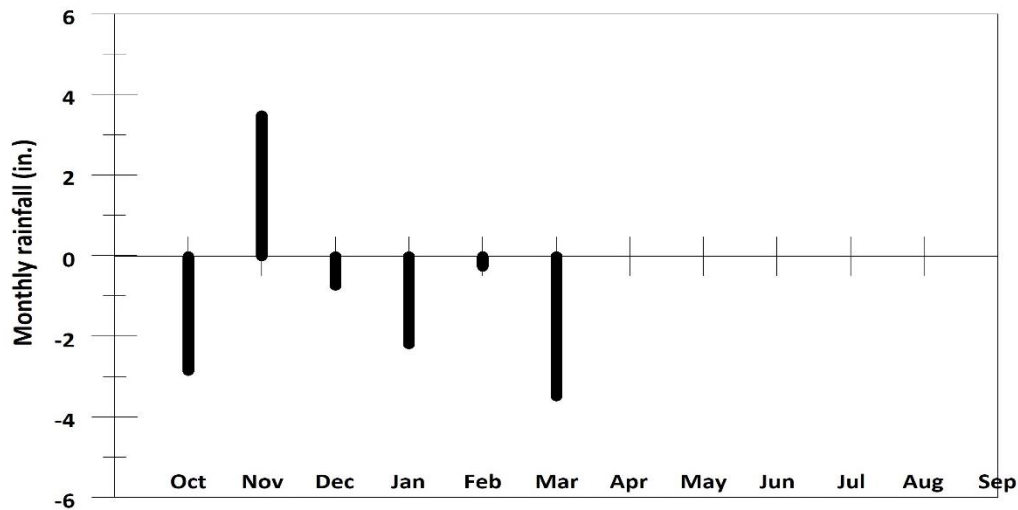


Figure 1. Amount of rainfall deviation from the 30-year average per month.

Permanent Control

- Operators, with the assistance of Larvicide crew, have completed dike repair work at Bill's, Oyster Bar, Sebastian Inlet, and Schlitt's Impoundments for Hurricane Nicole.
- Crews are moving to next repair sites.
- Two pumps, Vickers and Sand Point, have been picked up from MWI, repaired and installed.
- Survey work is still ongoing.
- The Maintenance Supervisor picked up the grinder attachment from Super Track, which was balanced and Chopzilla for warranty service work.

Larval Mosquitoes

- Two aerial larvicide missions were completed in March, totaling 2,209 acres, due to high tides; this is higher than the historical average of 1,047 acres for the month of March.
- Drone missions are still on hold pending legislative action.
- Ground larvicide treatments, totaling 19.05 acres were completed in March, which is below the historical average of 32.21 acres for the month.

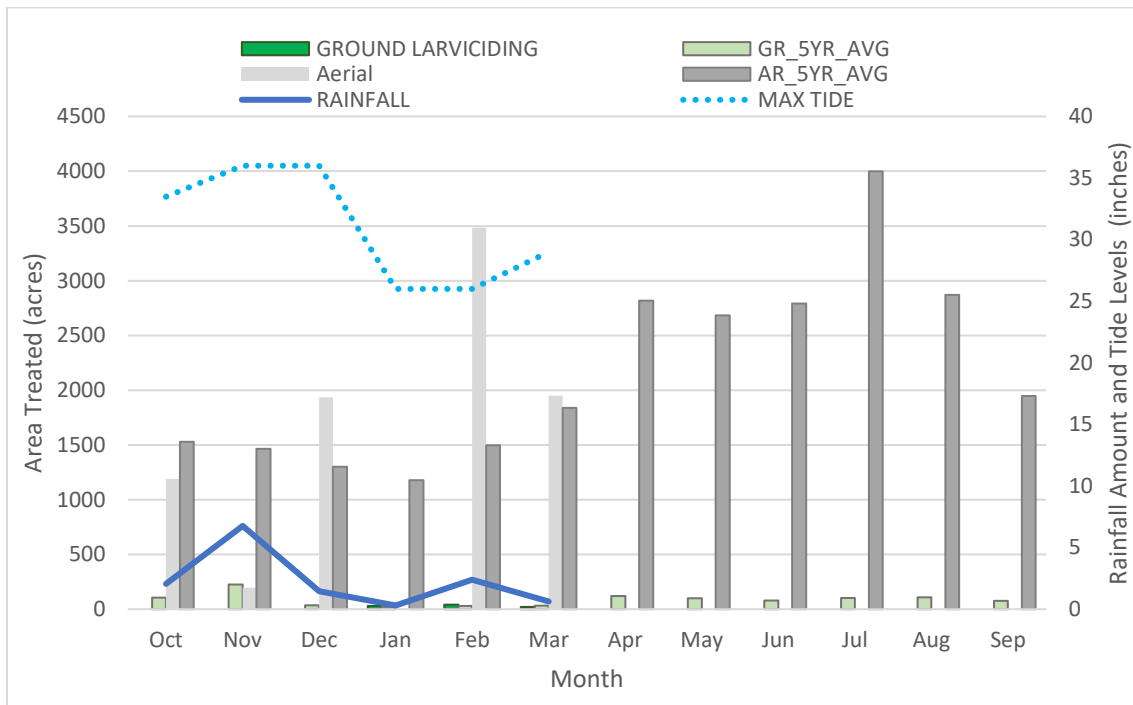


Figure 2. Ground and aerial larviciding acres treated, rainfall and maximum tide levels per month for FY2022-23, as compared to the 5-year averages.

Adult Mosquitoes

1. Landing Rate Counts (East of US 1)

The landing rates in the impoundments and marsh areas did not exceed 30+ per minute. This was due to the rise and fall of the tide, where the tide was not high enough to reach the inspection sites. This occurred on the central and south barrier island. The landing rates in the neighborhood did not exceed 10 per minute.

2. CDC Light Traps

The average number of *Culex nigripalpus* (*Cx nigr*) from all the collection sites in March decreased (-29.3%) with exception of District and Fairgrounds when compared with the month of February. The number of *Cx nigr* increased from 3 to 8 and 23 to 145, respectively, from the month of February to March at District and Fairgrounds. In terms of non-*Culex* mosquitoes, the average number decreased from all the sites (-33.0%), which is a similar trend with *Culex nigripalpus*. It is believed that the key factor contributing to the decreasing number of mosquitoes district wide is lack of rainfall.

3. Treatments

- No aerial adulticiding missions were conducted in March.
- One truck adulticide mission totaling 56 miles was conducted in March, which is below the historical average of 228 miles.

4. Service Requests

- 28 service requests were received for the month of March. The historical average is 27.

Table 1. Average number of total mosquitoes per trap collection for March (1st through 24th) as compared to February for both *Culex nigripalpus* and the non-*Culex* species.

Site	<i>Culex nigripalpus</i>		Non- <i>Culex</i>	
	FEB-Avg	MAR-avg	FEB-Avg	MAR-avg
District	3	8	6	9
Fairgrounds	23	145	125	83
Fellsmere	43	19	153	25
Graves Swamp	205	184	172	116
Landfill	149	71	45	33
Lockwood	17	11	15	9
Powerline (Sebastian)	89	56	336	305
Ryall	94	77	112	56
Youth Ranch	44	35	44	39
Average	96	67	112	75

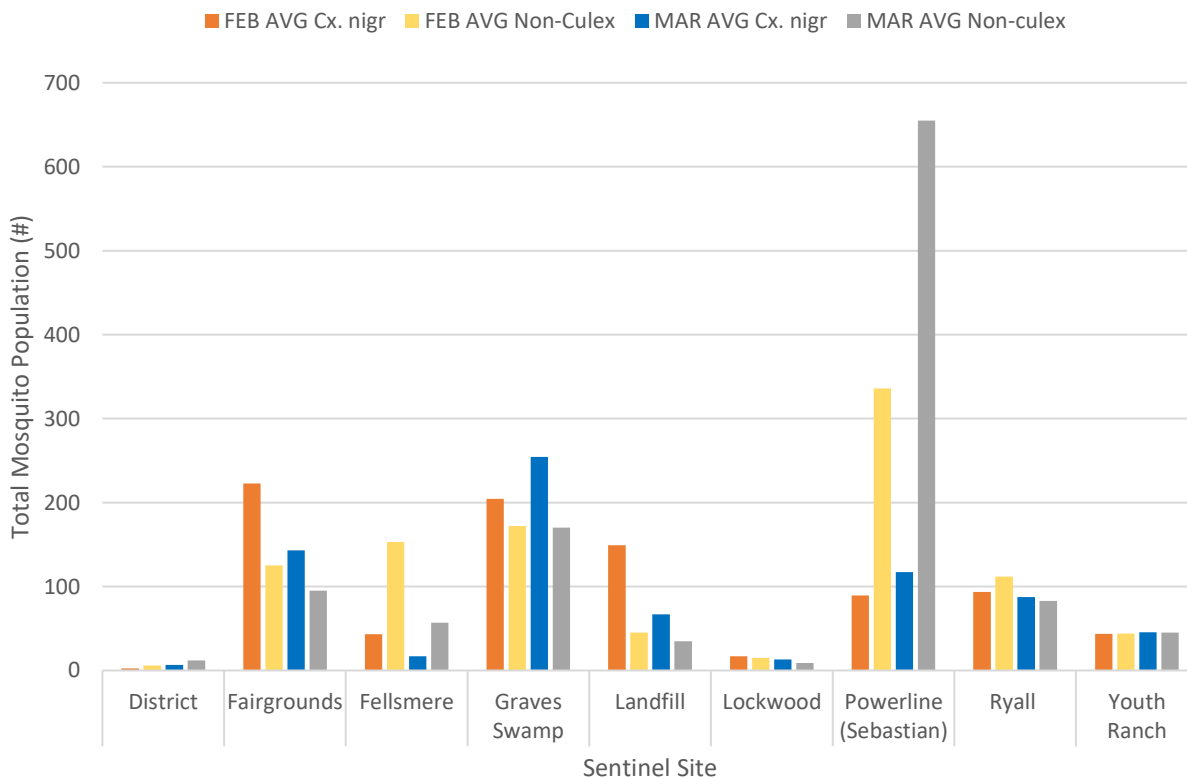


Figure 3. Comparison of the February and March 2023 monthly average population of *Culex nigripalpus* and other mosquito species (non-*Culex* species) per sentinel trap site.

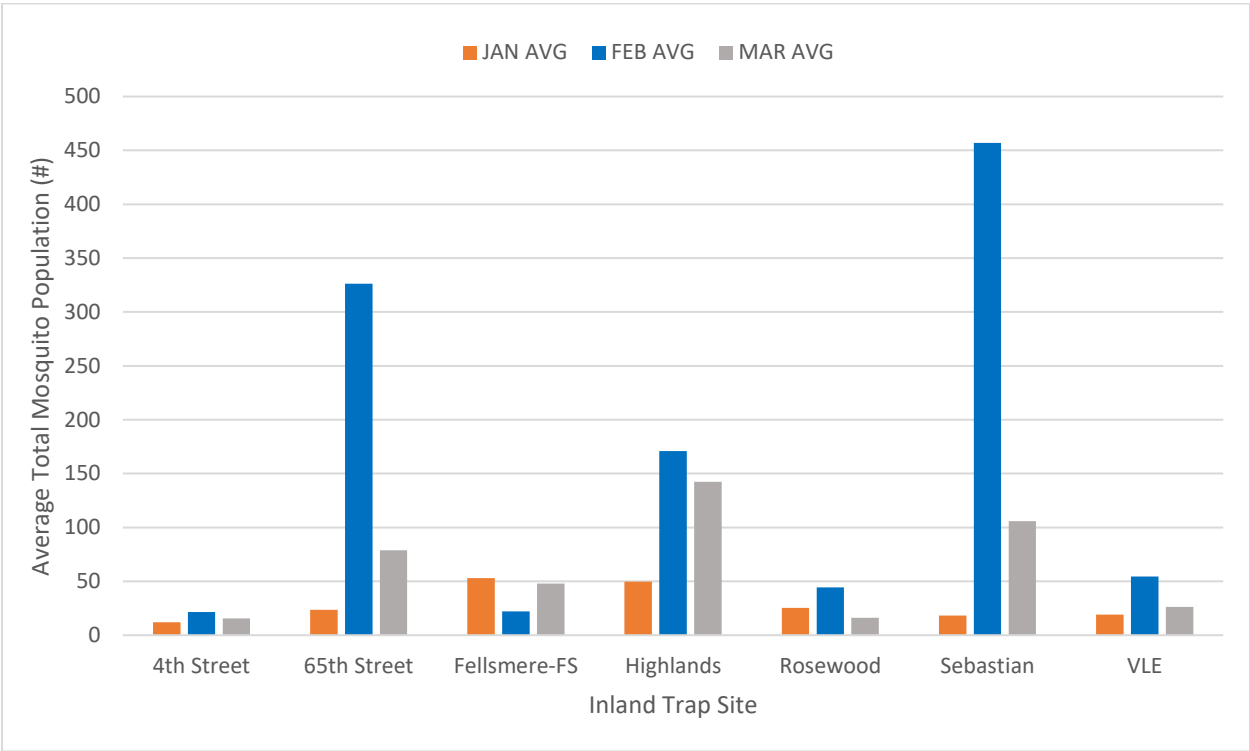


Figure 4. Average mosquito population (all species) per inland trap site for January, February, and March 2023

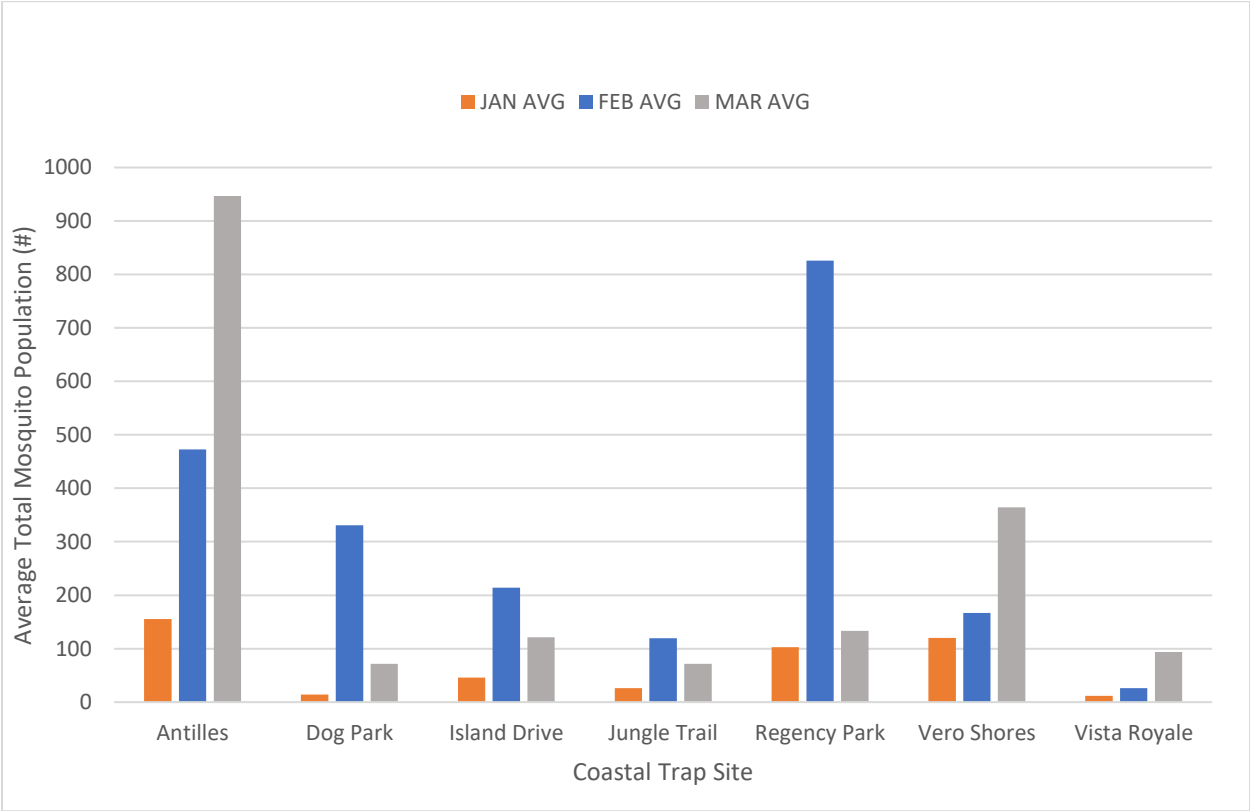


Figure 5. Average mosquito population per coastal trap sites for January, February, and March 2023

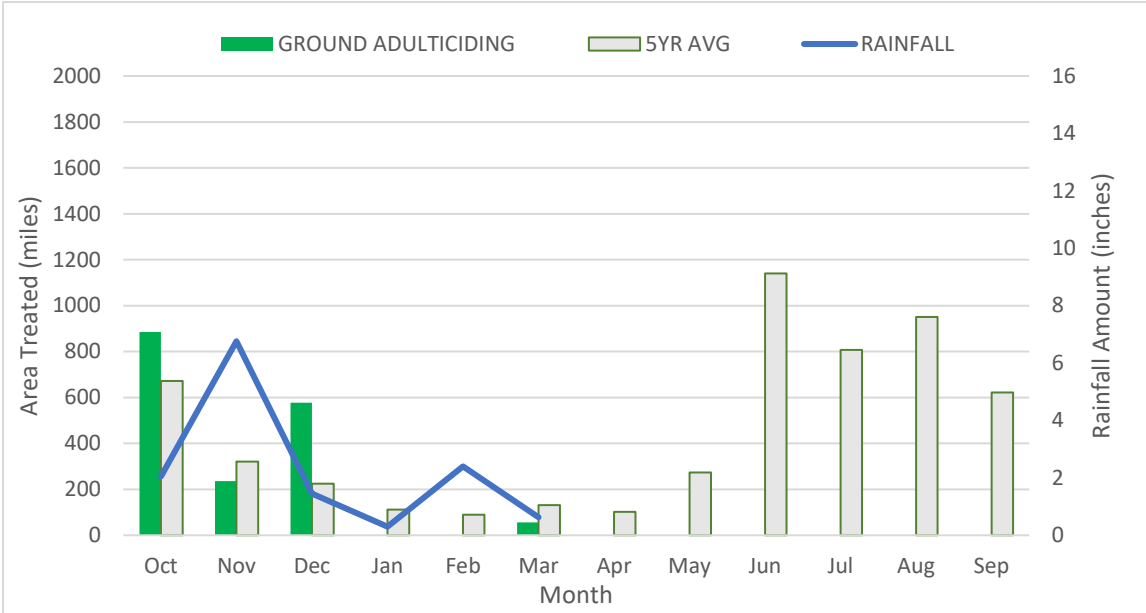


Figure 6. Ground aduclticing acres treated and rainfall per month for FY2022-23, as compared to the 5-year averages.

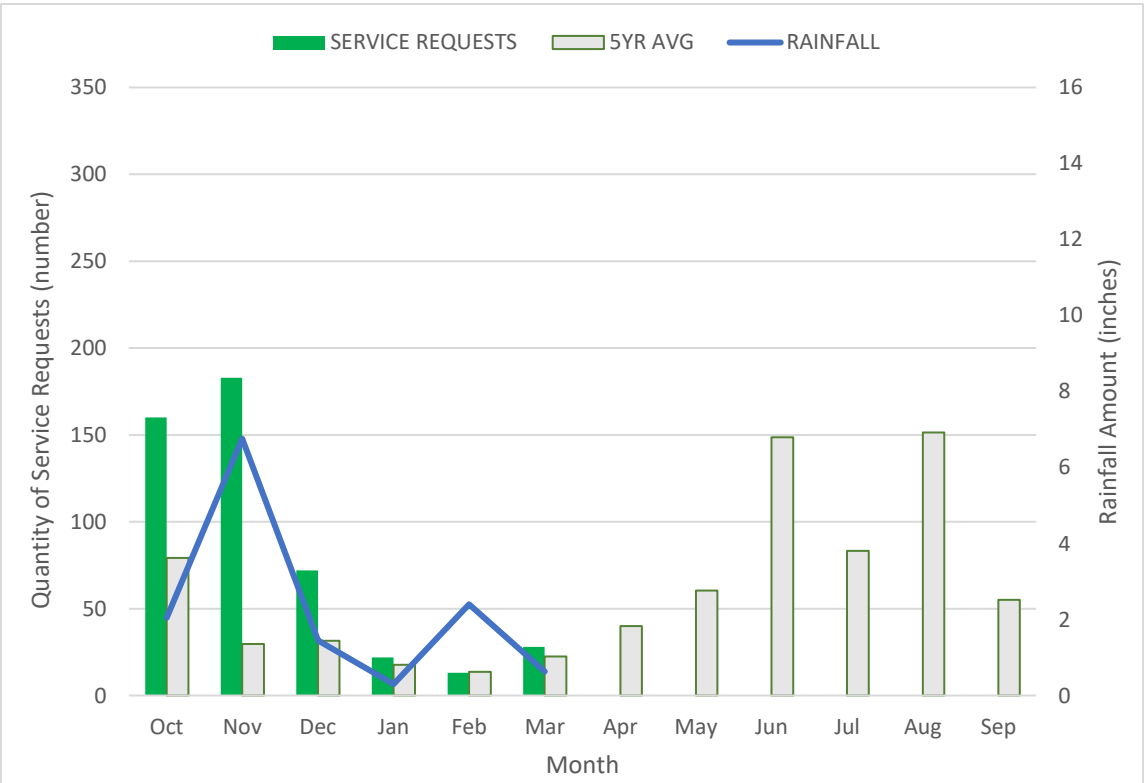


Figure 7. Number of service requests received per month for FY2022-23, as compared to the 5-year average.

Arbovirus Surveillance

No arbovirus activities were reported in the District as of March 24, 2023. Only 1 positive WNV and EEE chickens were reported state-wide.

Table 2. District & Statewide Mosquito-Borne Disease Update (as of March 24, 2023)

VIRUS	DISTRICT		STATEWIDE							
	Sentinels		Sentinels		Humans		Horses		Mosquito Pools	
	MAR	YTD	MAR	YTD	MAR	YTD	MAR	YTD	MAR	YTD
WNV	0	0	1	1	0	0	0	1	0	0
SLEV	0	0	0	0	0	0	0	0	0	0
Flavi.	0	0	0	0						
EEEV	0	0	1	7	0	0	0	2		

VIRUS	Imported Case		Imported Case		Local Case	
	MAR	YTD	MAR	YTD	MAR	YTD
DENV	0	0	25	52	0	1
CHIKV	0	0	0	0	0	0
ZIKAV	0	0	0	0	0	0

Counties Under Mosquito -borne Illness Advisory:
None

Counties Under Mosquito -borne Illness Alert:
Miami-Dade

WNV = West Nile virus; SLEV - St. Louis encephalitis virus; EEEV = Eastern equine encephalitis
Flavivirus = tested positive for flavivirus antibodies and pending additional testing to confirm either SLE or WNV.
DENV = dengue virus; CHICKV = chikungunya virus; and ZIKAV = Zika virus
Imported Case: Infected while traveling outside of the County
Local Case: Infected individual has no travel history outside of the County during the infection period.

Aspirators & Parity Determinations

No dissections or parity determinations were made as of March 24, 2023, due to the insufficient numbers of *Cx nigr* aspirated from both Graves and Lockwood sites.

Table 3. Ground aspirator collection for the week ending on March 24, 2023.

Trap	Prior Week Total Cx. nigr.	Total Cx. nigr.	Total NBF	% gravid	% parous	# species	Average monthly rainfall (in)
Graves	0	0	0	0%	*	1	.23
Lockwood	11	0	0	0%	*	2	0

Research

1. Larval bioassays

Failures of spinosad (Censor®) field applications to control the mosquito *Aedes taeniorhynchus* were observed in Busch field area. Resistance to spinosad in *Ae. taeniorhynchus* larvae could be a possible reason for the control failure. Therefore, it is essential for to conduct testing to confirm the resistant status of spinosad to *Ae. taeniorhynchus* District wide.

To investigate the resistant status of *Ae. taeniorhynchus* to spinosad, bioassay studies were conducted in the laboratory using field-collected larvae. A susceptible *Ae. taeniorhynchus* colony from the USDA-ARS lab was used as a control for comparison. The USDA susceptible colony was originally collected from Orlando in 1952 and since then was kept in the USDA lab. By comparing with this colony, susceptibility of our field collected *Ae. taeniorhynchus* to spinosad could be determined.

Table 4. Activity of spinosad against 3rd instar larvae of *Aedes taeniorhynchus* after 24-h and 48-h of exposure to technical power and liquid formulation of spinosad in the laboratory.

Lethal concentration (mg/L), CL (95%), post-exposure (hr.)				
Locations	24 h		48 h	
	LC ₅₀	LC ₉₀	LC ₅₀	LC ₉₀
Technical material (98.2%, Lot: 14123300)				
USDA	0.041	0.079	0.023	0.046
	(0.033-0.052)	(0.060-0.133)	(0.015-0.030)	(0.035-0.093)
Paul's Island	0.057	0.165	0.021	0.029
	(0.049-0.065)	(0.129-0.237)	(0.020-0.023)	(0.026-0.034)
Preacher's Island	0.046	0.115	0.023	0.031
	(0.037-0.057)	(0.085-0.222)	(0.025-0.035)	(0.029-0.044)
Resistance ratios (RR):				
Paul's Island	1.4	2.1	0.9	0.6
Preacher's Island	1.1	1.5	1	0.7
Natular 2EC 20.2% (AI)				
USDA	0.039	0.086	0.015	0.033
	(0.032-0.044)	(0.068-0.125)	(0.010-0.019)	(0.027-0.050)

LC stands for “lethal concentration”.

LC₅₀ is the concentration of chemical that kills 50% of the test mosquito larvae during the observation period.

LC₉₀ is the concentration of chemical that kills 90% of the test mosquito larvae during the observation period.

Resistance ratios (RR): is the LC50/LC90 for resistant mosquito populations divided by the LC50/LC90 for susceptible population. In the case of this study, RR=wild mosquito population/ USDA susceptible population. If RR is < 5 (tolerance); 5-20 (low resistance); 21-100 (mid) and >100 (high).

Results: Spinosad technical was highly active against 3rd instar larvae of *Aedes taeniorhynchus* (USDA) after 24 hrs. of exposure, with mortality increasing slightly after 48 hrs. of exposure. The liquid formulation showed somewhat higher activity than the technical material at both the LC₅₀ and LC₉₀ after 48 hrs. of exposure. Bioassay tests indicated that the two field *Ae. taeniorhynchus* populations, Paul’s, and Preacher’s, were still susceptible to spinosad. The RRs for these populations were between 0.6 to 2.1, indicating there was no resistance to spinosad. The results are consistent with our field treatment. Only BTI were used for the treatment in the Paul’s and Preacher’s area. Because the two *Ae. taeniorhynchus* populations have never been exposed to spinosad, as expected, none of them show any resistance. Busch field population has not been tested yet due to dry conditions and the limited availability of adequate numbers of mosquito larvae too test.

2. CDC bottle bioassays for adult *Aedes taeniorhynchus*

Permanone 30-30 (AI: permethrin) has been used for adult mosquito control in the district for over 30 years. However, concerns have been raised regarding its resistance to adult mosquitoes. To determine its resistance level to the field collected *Aedes taeniorhynchus* in the lab, CDC bottle bioassays were conducted.

According to the CDC bottle bioassay guidelines, the diagnostic dose and diagnostic time for permethrin to *Aedes* mosquitoes are 15 ug/bottle and 30 minutes, respectively.

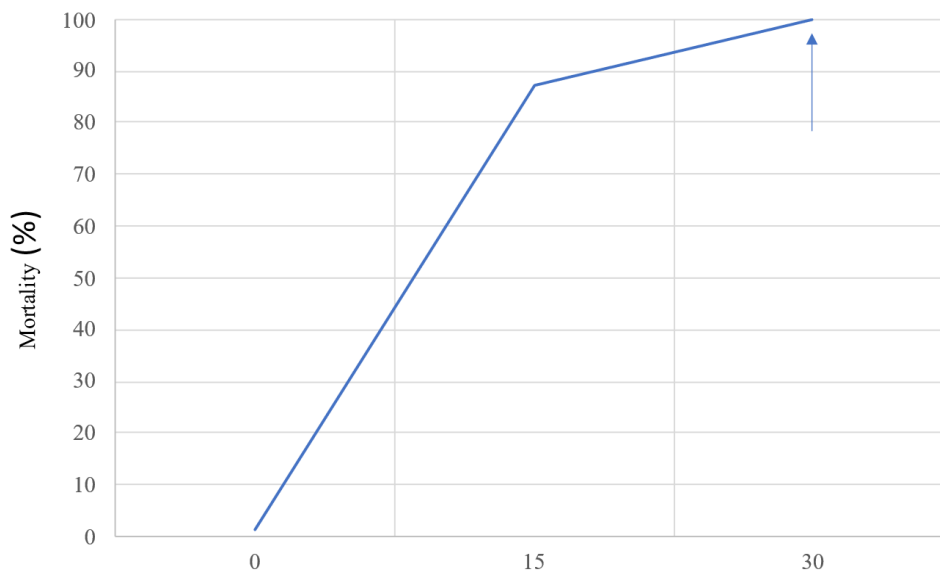
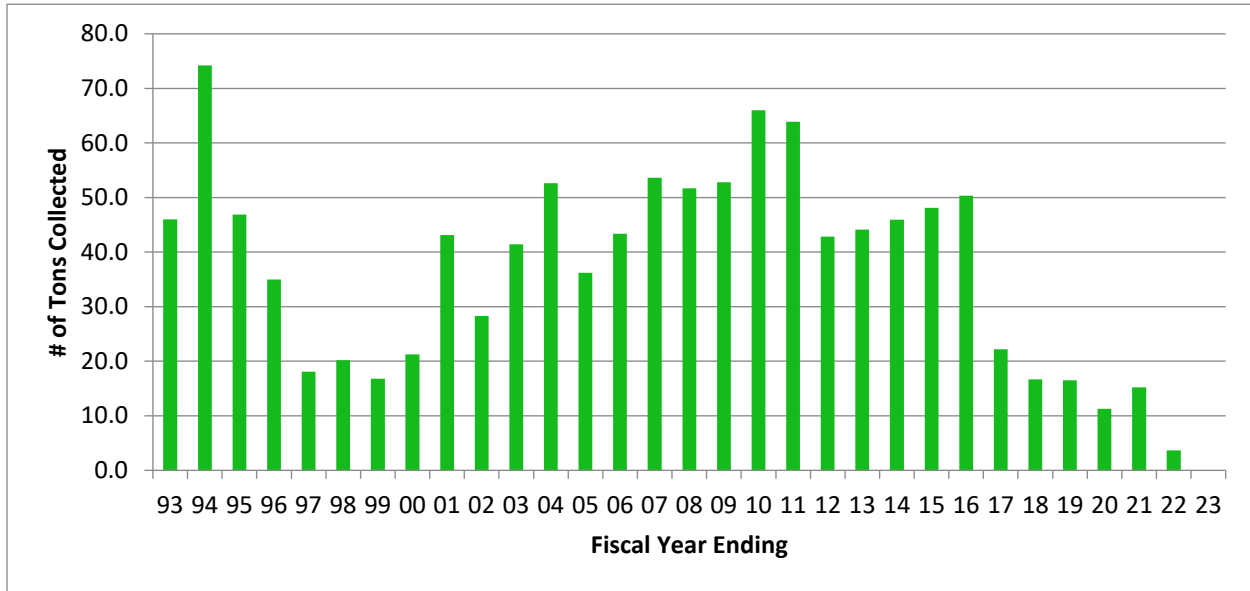


Fig. 1. CDCbottle bioassay: time-mortality of female *Ae. taeniorhynchus* exposed to bottles treated with technical grade active ingredient permethrin (15 µg/bottle, diagnostic time 30-min).

Results: Only one population of *Aedes taeniorhynchus*, i.e., North Beach, was available for testing in this study. The results of the study confirmed that the North Beach population was still highly susceptible to permethrin, as mortality reached 100% at the diagnostic time (30 minutes).

Waste Tire Program

There are no tire disposal records to report for the current fiscal year to date. Last fiscal year, 3.7 tons were collected, bringing the total to 1,128 tons collected since October of 1992.



Special Projects/Activities

- **Hurricane Nicole/FEMA Updates** - Staff will be submitting for reimbursement requests for each impoundment separately. The first reimbursement request was submitted on April 3, 2023 for Bill's impoundment.
- **LiDAR** – Coordination with Dr. Lindsay Campbell (FMEL) regarding grant project to evaluate use of LiDAR to define potential larval habitats and how to work with the data.
- **Audio/Visual Improvements** (Board Room) – Procurement of materials has been initiated; proposal from Centerline Computer Solutions has been approved for consulting services to assist with setup and training of staff for the use of audio-visual equipment not to exceed \$500.
- **IT GAP Assessment** – Pre-scan questionnaire was received from TPX Communications and completed by IT staff. Internal scan device has been received and is scheduled to be installed.
- **Cybersecurity Grant Submittal** – Staff submitted an application on the 28th to the Florida Digital Service for cyber security funding. They are offering \$30 million in funding to equip local governments with cyber security capabilities. Awards will be announced on April 18th.
- **Sentinel Chicken Coop Fabrication** – All materials have been procured to complete the fabrication of the last remaining three field coops.
- **MapVision Database** – Waiting on resolution of several outstanding issues regarding data entry errors.

Upcoming Community Outreach/Educational Events

- **Community Events**
 - Lagoon Fest, April 1
 - Earth Day, April 22, City of Sebastian
- **School Events**
- **Speaking Engagements**
 - Grove Isle HOA, April 11, Executive Director & Director of Operations

Human Resources

- **Current Openings** – Research Entomologist; advertised internally for a week and then externally on the District’s website, FMCA, AMCA, FASD, FMEL, and Indeed, deadline April 10 for submissions.
- **Compensation Study** – presentation of results at the May Board meeting

Travel/Training Completed

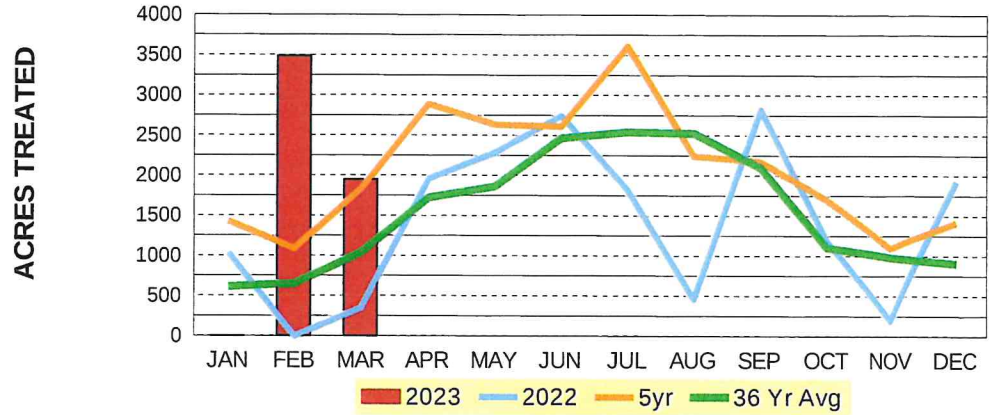
- **AMCA Annual Meeting**, February 27-March 3, Executive Director, Director of Scientific Programs and Senior Entomologist
- **FASD Legislative Forum & Special District’s Day**, March 8-9, Executive Director
- **Presentation by Dr. Pat Dale**, Australia, March 8, All staff
- **ESA SE Conference**, March 12-15, Senior Entomologist
- **FMEL Adult Identification Course**, March 13-24, Entomologist I
- **FMCA Tallahassee Days**, March 21-22, Executive Director
- **AMCD Arbovirus Surveillance Workshop**, March 28-30, Executive Director & Director of Scientific Programs
- **Forklift Certification**, March 30, Maintenance Supervisor, Maintenance Technician, Aerial Coordinator, ULV Specialist & IT Specialist

Upcoming Travel/Training

- **Legal/HR Conference**, April 18th, HR Generalist
- **David Fuss**, April 19th, IRLT presentation; all staff
- **Dr. Lawrence Reeves**, presentation on new mosquitoes in South Florida, date TBD; all staff

AERIAL LARVICIDING

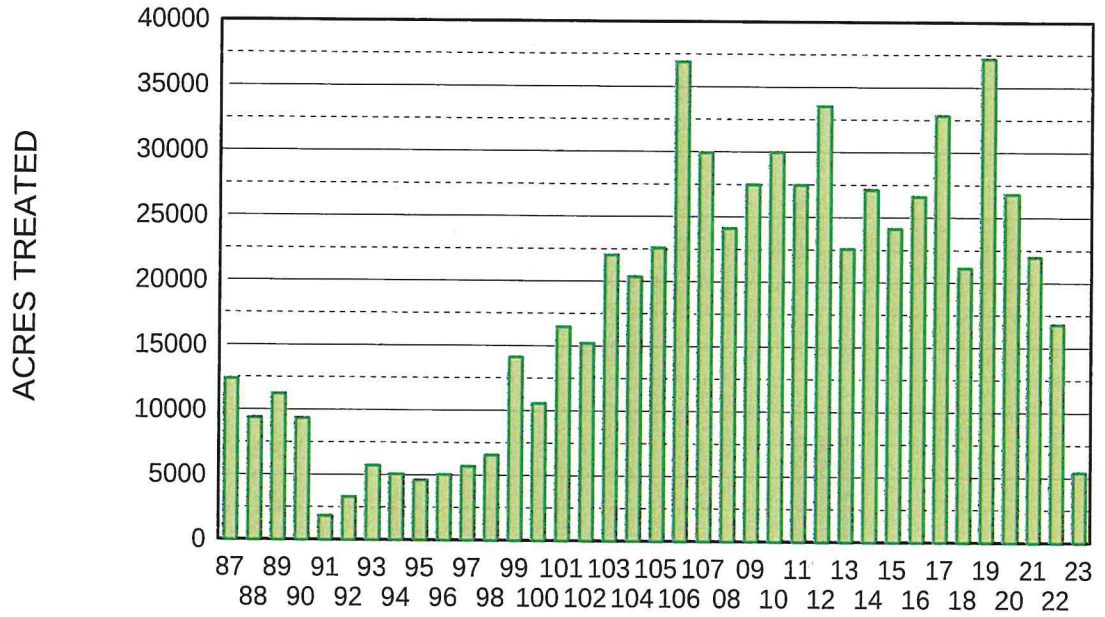
2023



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1989	433	0	1161	514	193	1418	1517	2312	1803	1864	45	0	11260
1990	0	1126	800	110	1279	2958	1323	1111	187	484	0	0	9378
1991	263	66	165	160	424	320	271	161	20	0	0	0	1850
1992	0	0	0	0	377	1127	184	312	965	30	328	0	3323
1993	159	366	361	30	153	974	497	1473	1483	150	0	110	5756
1994	0	20	0	914	775	448	1099	1070	727	0	25	0	5078
1995	0	0	58	178	464	630	1866	1381	50	0	0	0	4627
1996	0	0	229	325	1033	1666	974	337	474	35	0	0	5073
1997	0	144	466	460	217	1035	1454	1344	122	0	460	0	5702
1998	0	0	0	103	775	73	1010	2212	904	469	600	449	6595
1999	366	1840	647	357	2797	1546	381	2649	2780	75	529	186	14153
2000	334	0	340	719	235	2425	2890	1864	1672	25	90	0	10594
2001	0	0	0	2073	2789	3557	3257	2595	1264	924	50	0	16509
2002	0	780	58	914	1740	4185	1592	3254	391	270	926	1129	15239
2003	455	0	2632	2099	1899	5286	960	3361	2630	461	1194	1066	22043
2004	160	1556	290	1084	0	4408	2215	5239	1897	1238	633	1663	20383
2005	1377	925	3089	2160	1531	1482	791	769	4280	3191	1497	1519	22611
2006	45	1424	736	1129	2945	7214	2443	3444	5997	3274	3693	4577	36921
2007	1223	525	614	2834	2436	3541	6524	1145	4751	3388	1707	1266	29954
2008	904	652	1359	5169	1110	3181	5257	4058	395	860	915	285	24145
2009	130	0	890	355	4158	3040	5151	3566	4109	1145	2203	2760	27507
2010	0	755	4019	4693	1973	2181	1101	2925	4401	2417	4048	1498	30011
2011	1722	0	1437	1761	2771	2546	2947	7367	3452	914	0	2571	27488
2012	0	1987	2721	5997	5598	3016	2266	4097	2746	2650	902	1592	33572
2013	553	0	1649	2056	2559	2155	4508	1561	4174	234	2565	584	22598
2014	2273	3132	200	2708	2780	2759	3810	3555	2383	1813	492	1237	27142
2015	768	789	853	1518	2987	2771	5837	2290	3690	0	1732	928	24163
2016	2600	494	1305	4735	3293	3308	1224	4826	3489	407	207	758	26646
2017	1053	1530	1712	2431	2886	4658	5921	5970	753	1423	3272	1234	32843
2018	434	0	2114	3140	1813	967	3538	2155	3163	667	2240	903	21134
2019	2967	2097	6081	222	3571	4217	4592	3021	1195	2513	3075	3663	37214
2020	2751	0	0	4196	5532	1488	5500	2837	2060	2477	0	0	26841
2021	0	3370	652	4959	0	3674	2618	2768	1675	1684	0	609	22009
2022	1041	0	355	1961	2289	2748	1828	462	2826	1191	196	1936	16833
2023	0	3485	1949										5434
Year	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Total
Avg	618	657	1047	1728	1869	2472	2548	2532	2104	1110	988	912	18583

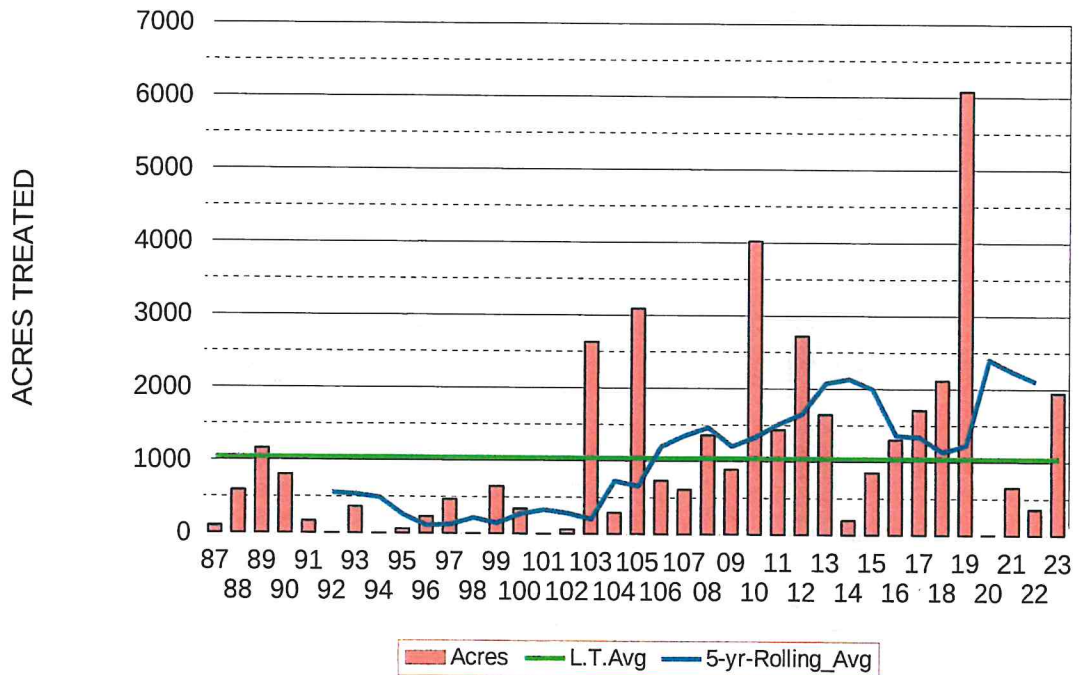
YEARLY LARVICIDING

1987 - 2023



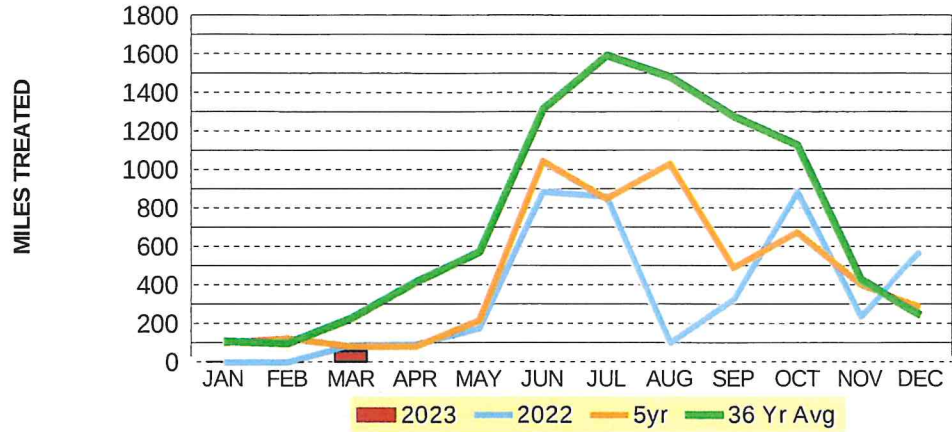
MARCH LARVICIDING

1987 - 2023



GROUND ADULTICIDING

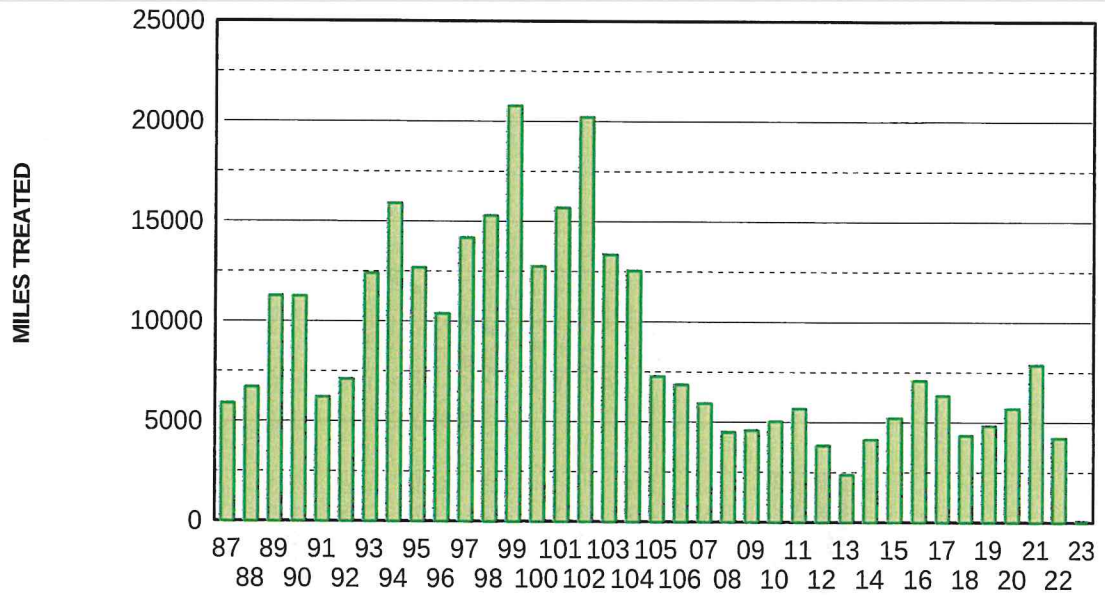
2023



1987	0	0	0	155	1025	345	100	523	1410	1276	999	70	5903
1988	131	0	271	321	602	565	1568	1269	542	646	665	133	6713
1989	686	820	1455	582	659	1086	1637	1720	987	1037	608	0	11277
1990	439	276	416	213	278	1307	1547	2774	2053	1799	169	0	11271
1991	150	0	297	427	93	1210	1091	1336	712	828	24	44	6212
1992	0	0	16	66	418	1503	1480	990	1042	1080	514	0	7109
1993	459	0	424	2388	1206	955	1121	928	1694	2465	612	173	12425
1994	55	113	877	1263	1416	1873	1254	2219	1717	1488	1996	1640	15911
1995	0	0	549	736	1459	1501	1915	2170	2445	1301	612	0	12688
1996	0	0	0	684	239	1824	2082	1337	1279	1966	411	571	10393
1997	44	228	1479	1095	1864	1608	2102	2282	1868	838	297	491	14196
1998	320	384	394	1641	788	1227	1977	1650	2464	1662	1638	1152	15297
1999	765	284	154	1435	1588	2194	3346	2880	3937	3181	545	480	20789
2000	98	20	132	41	201	2305	3444	3059	1557	1406	504	0	12767
2001	0	356	575	2087	1772	2349	4138	2336	1609	115	17	357	15711
2002	0	0	0	418	1183	2753	4172	3021	3958	3280	1443	0	20228
2003	0	0	130	0	1035	2655	1276	3145	2009	2565	551	0	13366
2004	0	269	4	90	356	2308	2123	2742	1795	2537	257	90	12571
2005	0	0	0	0	78	1683	1952	1171	772	901	740	0	7297
2006	0	0	0	18	483	1264	2021	1117	1567	172	241	0	6883
2007	0	0	0	0	129	1330	2019	1299	496	664	5	1	5943
2008	0	0	0	0	3	725	2136	1542	97	6	0	0	4509
2009	0	0	0	0	321	1858	1900	376	132	9	0	0	4596
2010	0	0	0	202	31	556	508	814	1077	1465	394	0	5047
2011	0	0	0	1	192	620	1659	1467	735	1012	2	0	5688
2012	103	0	0	85	462	492	89	166	1668	778	9	0	3852
2013	11	10	9	12	5	419	1211	75	0	170	79	378	2379
2014	0	0	9	66	36	556	1530	645	323	946	21	19	4151
2015	0	0	29	16	0	74	648	1384	1321	103	6	1641	5222
2016	0	250	347	375	1094	1405	501	1175	973	714	132	124	7090
2017	283	0	454	198	548	1617	588	543	1274	823	7	8	6343
2018	10	139	65	40	505	1509	788	341	251	76	624	0	4348
2019	0	63	34	12	180	607	657	2706	279	120	177	0	4835
2020	246	0	137	144	119	1198	867	176	217	1619	542	432	5697
2021	248	422	90	126	115	1029	1081	1836	1387	680	440	432	7886
2022	0	0	88	92	176	885	861	101	327	885	236	577	4228
2023	0	0	56										56
Avg	109	98	229	417	574	1317	1594	1481	1277	1128	431	245	8672
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	

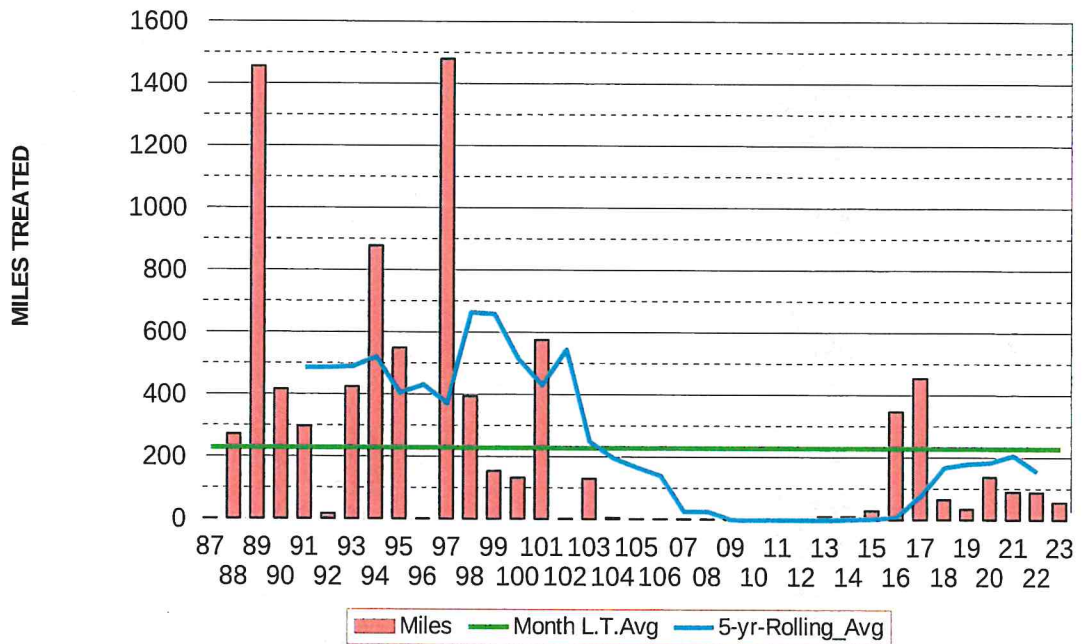
YEARLY ADULTICIDING

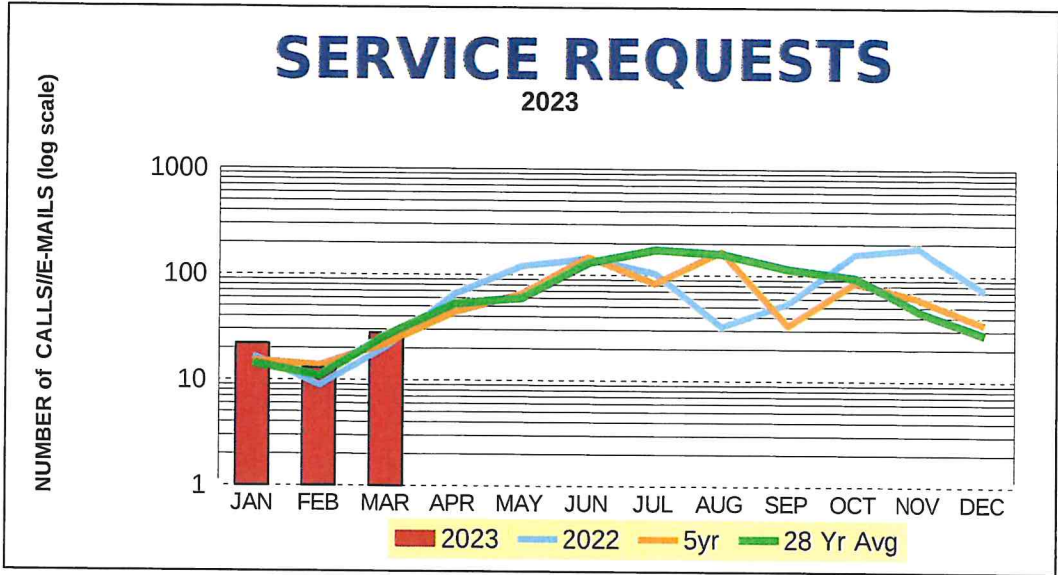
1987 - 2023



MARCH ADULTICIDING

1987 - 2023



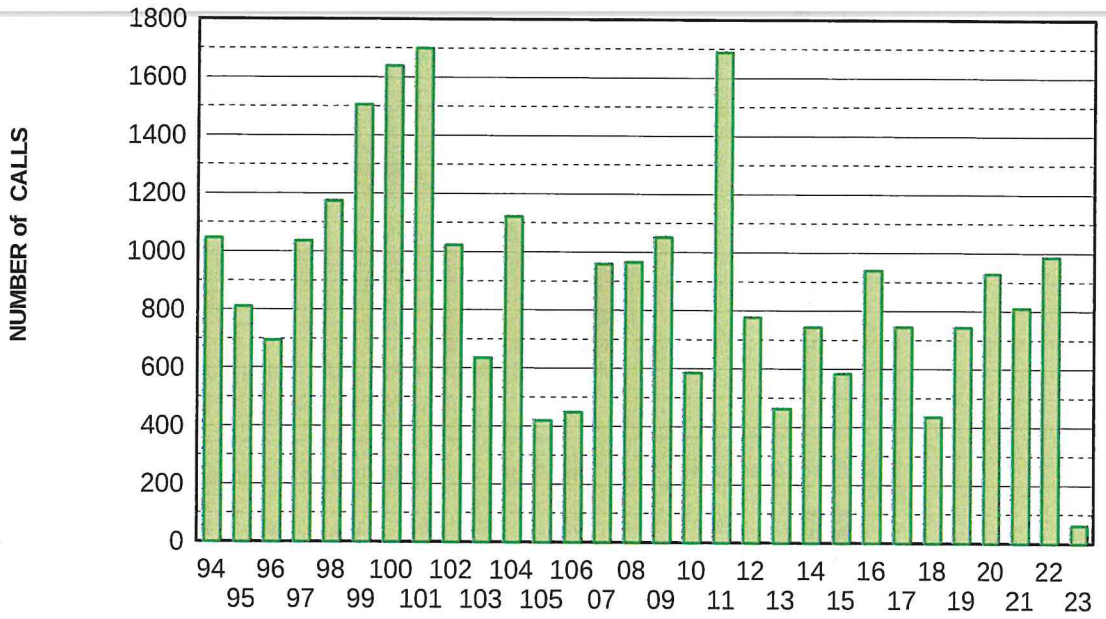


March Breakdown : 10 via Web Page, 0 via e-mail and 18 by Phone or Other Means

1994	16	11	61	38	82	161	97	135	164	83	156	43	1047
1995	4	2	44	50	25	44	87	292	144	65	47	7	811
1996	1	7	12	42	26	82	195	60	77	137	32	24	695
1997	11	18	58	93	76	97	121	356	93	50	36	29	1038
1998	18	22	39	84	32	32	143	165	366	110	123	41	1175
1999	89	21	28	81	110	205	160	202	210	304	59	37	1506
2000	17	5	36	55	39	311	637	172	163	168	29	7	1639
2001	2	39	65	315	127	127	482	325	97	52	44	25	1700
2002	7	1	34	90	92	292	243	131	55	35	27	17	1024
2003	26	0	49	54	52	86	66	147	44	64	42	6	636
2004	20	13	21	34	41	62	108	202	422	154	37	9	1123
2005	3	1	20	40	18	132	43	12	35	28	76	12	420
2006	9	1	11	19	26	50	122	40	91	53	22	5	449
2007	17	2	6	4	56	80	181	403	50	124	21	16	960
2008	3	3	8	23	29	135	254	323	51	33	6	99	967
2009	1	0	3	3	16	241	625	49	57	36	14	8	1053
2010	1	1	12	58	46	107	52	48	141	79	37	5	587
2011	2	11	22	37	122	153	468	333	125	281	94	41	1689
2012	27	12	51	63	160	84	42	36	219	42	24	18	778
2013	11	3	4	7	24	86	134	40	39	30	17	69	464
2014	5	6	22	29	26	126	233	51	64	155	17	11	745
2015	6	3	26	20	19	63	52	44	238	30	27	57	585
2016	23	56	26	72	153	168	38	177	88	85	29	25	940
2017	25	12	16	18	31	146	78	62	161	150	26	21	746
2018	4	14	15	13	106	120	35	37	24	37	25	6	436
2019	15	13	20	27	36	49	31	396	40	39	34	45	745
2020	28	11	17	96	55	310	105	49	23	161	61	14	930
2021	13	23	40	20	13	123	146	331	27	35	3	37	811
2022	17	9	21	66	122	144	105	33	55	160	183	72	987
2023	22	13	28										63
Year	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Total
Avg	15	11	27	53	61	132	175	160	116	96	46	28	920

YEARLY SERVICE REQUESTS

1994 - 2023



MARCH SERVICE REQUESTS

1994 - 2023

