

**NEW  
BUSINESS  
#1**

# Anastasia Mosquito Control District of St. Johns County

120 EOC Drive, St. Augustine, Florida 32092

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

## 2020 MEMO

DISTRICT DIRECTOR

Dr. Rui-De Xue



BOARD OF COMMISSIONERS:

Jeanne Moeller, Chairperson

Trish Becker, Vice-Chairperson

Don Girvan, Secretary/Treasurer

Gary Howell, Commissioner

Gina LeBlanc, Commissioner

TO: Board of Commissioners

FROM: Dr. Rui-De Xue, Director

CC: Charolette M. Hall, Administrative Assistant

DATE: April 23, 2020

RE: Discussion and Approval of Recommendation to Request State Legislation Funding for  
SIT Building at AMCD for Northeastern Florida Region

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Due to the increase of the mosquito-borne diseases and environmental concerns, environmental-friendly new technology for mosquito control (mass release of male mosquitoes treated by radiation and Wolbachia-infection (SIT)) has been demanded.

Based on our District's last 3 years of successful experiences and collaboration with the University of Florida, USDA/CMAVE, and MosquitoMate for control of Zika mosquitoes in St. Augustine, a mass production of treated male mosquitoes are needed. Currently we are collaborating with the University of Florida and USDA/CMAVE, and MosquitoMate to develop the SIT method for control of WNV vector mosquitoes. This new technology is suitable for control of major vector mosquitoes (Zika and WNV mosquitoes) in Florida.

Due to mosquitoes and mosquito-borne diseases being without political/county limitations, we would like to suggest building a mass rearing facility/building (6,000 sf) in our District facility to produce the SIT mosquitoes to support Northeastern Florida (13 counties).

I would like to recommend that the Board approve the Chairperson and staff to contact other county mosquito control organizations and local legislators to get the building funding (\$890K) from the State. Then our District will provide the matching funds and equipment for the mass rearing facility. (Attached are two supporting letters)



From: Stephen L. Dobson  
President, MosquitoMate, Inc.  
Lexington, Kentucky 40503  
<http://www.mosquitomate.com>  
Phone: +1 (859) 488-1125

To: Dr. Rui-De Xue  
Director  
Anastasia Mosquito Control District of St. Johns County  
120 EOC Drive  
St Augustine, FL 32092

April 13, 2020

Dear Dr. Xue,

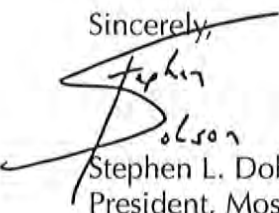
I am writing to offer my full support for the development of a mass rearing mosquito facility in St. Augustine, FL. As the incidence of mosquito-borne diseases increases, there is a clear need for new mosquito control tools. This is in light of current challenges related to insecticide resistance, regulatory and application limitations, and lack of investment of new insecticide classes for mosquito control. The proposed mass rearing facility will be a hub for new autocidal technologies, including MosquitoMate's Wolbachia- and ADAM-based technologies for *Aedes aegypti* and *Ae. albopictus*. The new technologies can be integrated with existing, conventional mosquito control technologies to improve mosquito control throughout Florida and surrounding states.

If funded, the new mass rearing center would provide a wonderful opportunity for MosquitoMate's continued collaboration with the Anastasia Mosquito Control District (AMCD). Over the past two years, we have enjoyed working with AMCD on multiple projects developing and examining the efficacy of multiple autocidal technologies in St. Augustine, FL. The AMCD campus, facilities and equipment make this an ideal center for mosquito-related science and testing. Thus, the new mass rearing center would be ideally placed to leverage the existing AMCD facilities and resources.

In conclusion, the Anastasia Mosquito Control District continues as a leader in our field. We anticipate having multiple SIT-based products available for use in Florida by 2021, and the availability of a mass rearing facility would further facilitate the expansion of the new technologies in Florida and surrounding states.

Best wishes with the proposal, and please contact me if I can assist you further. We look forward to ongoing work with you and your district.

Sincerely,



Stephen L. Dobson  
President, MosquitoMate, Inc.



Institute of Food and Agricultural Sciences  
Entomology and Nematology Department

PO Box 110620  
Natural Area Drive  
Gainesville, FL 32611-0620  
352-392-1901

3 May 2020

To Whom It May Concern:

I am writing in strong support of Dr. Rudy Xue's proposal to build a facility to provide support for sterile male release programs to North Florida. Sterile male approaches are already well developed and have been shown to be successful for controlling disease-vectoring and nuisance mosquitoes at several locations in the United States, including very successful programs in California, Kentucky, and Miami, FL, as well as other locations worldwide including in Mexico, Brazil, Italy, Greece, China, and Singapore. Sterile male approaches for mosquito control are ripe to take off in the State of Florida both because they can be very effective and because they are an environmentally friendly approach that minimizes the use of chemical pesticides. These approaches can provide the excellent mosquito control that Floridians and our visitors demand, while also satisfying the consumers desire to have less environmental impact and less chemical pesticide use. Many Florida Mosquito Control Districts have shown interest in using sterile male approaches in their areas.

As a long-time consultant to the United Nations on developing and optimizing sterile insect programs worldwide, it is clear to me that an important component for the development of effective and economical sterile insect technique is having specialized regional centers for mass rearing and sterilizing male mosquitoes that can be sent out to the field in many locations. The economy of scale gained from having a few larger, centralized facilities to serve many users in a geographical area is a well-established principle of sterile insect programs for many pest insects, and this same concept also holds for sterile mosquito programs. Thus, I am very supportive of developing a center for sterile male mosquito approaches, including traditional x-ray sterilization and *Wolbachia* incompatibly, at Anastasia Mosquito Control District of St. John's County, FL (AMCD). AMCD is one of the most effective and capable mosquito control districts in the country. They have the scientific, technical, and operational experience to make sterile male programs successful for not only their own district but to many of the mosquito control districts in North Florida. For the past three years I have been collaborating with Dr. Xue and the AMCD staff to develop sterile male technique for the invasive mosquito *Aedes aegypti*, a major nuisance in urban and suburban areas that also can vector several important human diseases including Zika virus, chikungunya virus, dengue virus, and the yellow fever virus. From this work I can confidently say that AMCD has the personnel, relationships with other districts and experience to be successful in allowing local mosquito control districts across North Florida to employ sterile male techniques as part of their integrative mosquito control programs. I will continue to support their sterile mosquito control efforts with expertise from my program, other experts at the University of Florida, and the United Nations. I hope that you will also support them with the funding to build this regional center.

Sincerely,

A handwritten signature in black ink, appearing to read 'Daniel A Hahn', written in a cursive style.

Daniel A Hahn, Professor  
Department of Entomology & Nematology, University of Florida

Ph:352-273-3968, [dahahn@ufl.edu](mailto:dahahn@ufl.edu), <http://entnemdept.ifas.ufl.edu/people-directory/daniel-hahn/>

**NEW  
BUSINESS  
#2**

# Anastasia Mosquito Control District of St. Johns County

120 EOC Drive, St. Augustine, Florida 32092

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

## 2020 MEMO

DISTRICT DIRECTOR

*Dr. Rui-De Xue*



BOARD OF COMMISSIONERS:

*Jeanne Moeller, Chairperson  
Trish Becker, Vice-Chairperson  
Don Girvan, Secretary/Treasurer  
Gary Howell, Commissioner  
Gina LeBlanc, Commissioner*

TO: Board of Commissioners

FROM: Dr. Rui-De Xue, Director

CC: Charolette M. Hall, Administrative Assistant

DATE: April 23, 2020

RE: Board Guidelines & Direction Discussion for FY 2020/2021 Budget

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Based on the TRIM law, budget calendar, and procedures; I would like to collect information from the Board about any items and projects you plan to have for the new fiscal year and your direction for the budget so that we may start to prepare for the new budget for Fiscal Year 2020/2021.

We will deliver the Draft Budget Books on May 28, 2020 for input and discussion during the June 11, 2020 Board meeting.

The deadline for the Work Plan Budget is July 15th.



**NEW  
BUSINESS**

**#3**

## Charolette Hall

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**From:** Dr. Rui-De Xue <xueamcd@gmail.com>  
**Sent:** Thursday, April 23, 2020 1:42 PM  
**To:** 'g-chowell'; 'Ralph S Bruner'; dsmith@flaglersheriff.com; 'Michael Phillips'; 'Richard Weaver'; Brad Gunn; 'Kay Gaines'; 'Whitney Qualls'; 'Dena Autry'; 'Charolette Hall'; 'Scott Hanna'; 'Muhammad Farooq'; speper@amcdf.org  
**Cc:** xueamcd@gmail.com; 'Jeanne Moeller'; Gina LeBlanc; 'Don Girvan'; 'Trish Becker'; 'Wayne Flowers'  
**Subject:** Operation and aerial committee meeting, Tuesday at 9am (April 28)

Dear Commissioner Mr. Howell:

Due to CONVID-19, we postponed our operation and aerial committee meeting to April 28 at 9am. If you and any other members would not feel comfortable to join the committee meeting in person at this time, you may call in for the meeting. The committee meeting will be held in the Board room for keeping social distance (we will limit the number of people (10 or under 10). The following items will be discussed and arranged. If you and other committee members have any items for the committee meeting, please let me know.

Thanks and stay safe.

Rudy Xue, Ph.D.  
Director

2020's Operation & Aerial Committee Meeting  
April 27 at 9am

Proposed agenda

1. Introduce new members (Chief Pilot/Aviation Manager, Mr. Dana Smith who came from Flagler Sheriff will start from April 27) by Dr. Xue
2. Update about helicopter annual inspection and maintenance by Mr. Ralph Bruner
3. Report study about helicopter switch for public use by Mr. Brad Gunn
4. Update aerial contractor for emergency spraying by Mrs. Gaines
5. Needed list for aerial program (additional surplus helicopter from Florida Key MCD? and drone for marsh mosquito control) for FY 20-21 budget draft by Dr. Xue
6. Needed list (vehicles, tools, and equipment) for operation budget for FY 20-21 by Mrs. Gaines
7. Discuss to host FMCA Fly-In Class in middle of January (150 people from nationwide, benefit to our District education and aerial program and local business) & work schedule by Dr. Xue

Operation and Aerial Committee Members  
Committee Chair: Commissioner Mr. Howell  
Members: Director Dr. Xue  
Aviation Manager: Mr. Smith  
Operation Manager: Mrs. Gaines  
A & P Mechanic: Mr. Bruner

Other attendance:  
Business Manager Mr. Weaver

# REPORTS

Director report (March & April 2020)

**Program Management:**

**Customer & professional service and service request process:** AMCD answered 33 in March & 80 in April service requests. Dr. Xue reviewed 7 manuscripts for different journals at the editors' requests. Dr. Xue attended COST repellent meeting in Spain and gave a presentation from March 1 to 4. Dr. Xue attended AMCA and SOVE teleconferences about the cancellation of AMCA annual meeting, SOVE annual meeting and AMCD's 17<sup>th</sup> workshop, and attended AMCA business meeting. Due to COVID-19, the District office closed for public since later March to end of April except for delivery and had appointment.

**Surveillance:** Continue 12 BG sentinel traps and ovitraps for Aedes mosquito surveillance once a week. Prepared for arbovirus surveillance, such as chicken coops and site check and fix. Testing for arbovirus by sentinel chickens in house has been prepared. Relocated Don Manual site. District plan to start CDC traps from May 11. In March & April, BG traps collected *Aedes* (356) and *Culex* (3,196), and *Anopheles* (595) mosquitoes.

**Operation & aerial program:** AMCD MCTs did hand fogging for 1 time for 20 acres and barrier spraying for 14 times for 3 acres. Positive larval dips were 486 and treated larvae for 185 times for 450 acres by ground application. Helicopter has been done for annual inspection and maintain. Testing flight for 2.2 hours in April. We hold the operation and aerial committee meeting on April 28.

**Applied research:** Spatial repellent project continue. CDC/DOH's SIT collaboration grant has been released in the 1<sup>st</sup> week of March and stopped due to USDA/CMAVE close for COVID-19. DoD grant (decision make threshold) has been asked for budget revision. CDC collaboration grant preproposals (SIT for WNV & smart cages) with UF have been resubmitted for full proposals in middle of March. Submitted a manuscript about ATSB paper to JVE. Conducted COST repellent textile and USDA repellent in lotion formulations. Conducted Bigshot adulticide testing.

**Education:** Education Specialist updated District several flyers and gave teach at Valley Ridge Academy, Liberty pines Academy, Technical High in early March. AMCD cancelled the 17<sup>th</sup> workshop, and cancelled the trips for AMCA meeting and other meeting. Face book and website update very frequently. Education building draft plan has been sent out to committee members and related agencies and people for inputs. AMCD has been asked for Mentor to Columbia County vector control group from March to July.

**Business Management:**

**Serve to the Board of Commissioners:** Staff prepared for March 12's Board meeting and operation & aerial committee meeting on April 28. Staff prepared for Education Center Building draft plan. The Board cancelled April 23 meeting due to COVID-19.

**Budget and Auditor:** C.F.O. & Auditor prepared for FY 18-19 audit report for May Board meeting. Each department Manager submitted their needed list for FY 20/21 budget draft.

**Contract:** Harrell construction has done the outdoor screened enclosure and the building 500 drains. Assisted District to work out the Education building draft plan.

**HR.** Mr. Pat Kendrick, MCT passed away on March 24 after several month sick. He severed the District since April 2003. Mr. Mr. Dana Smith starts from April 27 as Chief Pilot & Aviation Manager. Mrs. Heather Ward starts from April 27 as Biological Technician to assist Dr. Steve Peper for arbovirus surveillance. Mr. Barry Scott, MCT retired on April 30, 2020 after 6 year services. Miss Courtney Cunningham was promoted to a full time MCT from contracted technician to serve the Flagler Estate area from April 6. Intern student Olivia Sypes was promoted to the contract biotech to assist Dr. V. Aryarema for the CDC /DOH's SIT grant. The seasonal employee hiring has been postponed to June 1 due to the COVID-19 risk.

**Meeting:**

Mar 2-5, Attended COST repellent meeting, FUE Island and gave a presentation about Surveillance and funded by the COST.

Mar 9. Met Mr. Jon Davidson about his product for GLP with Dr. W. Qualls.

Mar 11. 8am. Attended UF/EPI teleconference about grant progress.

Mar 12. 9:30am. Met EPA representative for GLP inspection. 11am. Met Commissioner Mrs. Moeller and Ms. F. Jones about the FMCA. 5pm. Attended Board meeting.

Mar 16. 4pm. Attended AMCA's legislation committee meeting by Zoom.

Mar 17. 1pm. Met Commissioner Mrs. Moeller about SIT building proposal.

Mar 18. 1pm. Met Sheriff's Chief Pilot and Pilot at AMCD about their help.

Mar 19. 9am. Attended MosquitoMate teleconference. Reviewed the IGR paper for Insect.

Mar 23. 8:30am. Held staff meeting. 9am. Repellent testing meeting. 2pm. Attended NACCHO teleconference meeting about mentorship. 3:30pm. Met Commissioner Mr. Howell about P. Kendrick issue.

Mar 24. 9am. Attended pilot interview. 11am. Met Mr. Brad Gunn about aerial program help.

Mar 25. &:30am. Attended textile repellent testing. 1pm. Held staff meeting about host fly in class.

Mar 26. 11:30am. Met Commissioner Mr. Howell about P. Kendrick issue.

Mar 30. 10:30am. Held staff meeting about operation during the COVID-19 outbreak times. 2pm. Met Commissioner Mrs. Moeller about AMCD's response for the COVID-19.

April 1. Attended textile repellent testing.

April 2. Repellent study continuing.

April 6-7. Take off and did review several manuscripts for JME and JVE.

April 8. 8:30am. Attended EPI grant meeting. Review for Environmental Science and pollution research.

April 9. 9:30am. Attended MosquitoMate teleconference.

April 14 . Reviewed a manuscript about mosquito distribution for the JAMCA during off.

April 15. Met BigShot's Scientists for collaboration project. Attended textile repellent testing. 2pm. Attended Natcides teleconference about further testing.

April 16. Attended USDA repellent testing. Attended BioScience video conference. 2pm. Attended DoD grant teleconference meeting. 3:30pm. Met Commissioner Mrs. Moeller.

April 20 & 21. Worked on the JFMCA Vol. 67 during off.

April 22. 9am. Attended Clarke teleconference meeting. 12:30. Attended AMCA teleconference meeting. 1:30pm. Met Commissioner Mrs. Moeller.

April 23. 1pm. Met Commissioner Mr. Girvan about bank switching issue. 2pm. Attended DoD teleconference meeting.

April 28. 9am. Held operation and aerial committee meeting. 1:30pm. Met Commissioner Mrs. Moeller about education building and proposed agenda.

April 29. Met Aviation group about their duties, team work, and cooperation. 3pm. Met Dr. Peper, Dr. Qualls, and Mrs. Ward about sentinel chicken surveillance and in house testing possibility.

April 30. Attended Kiwanis video conference in am and reviewed a manuscript for Acta Tropic, prepared for a new gravid trap testing with the Visiting Scientist.

# Treatment Summary March 2020

From Date : 03-01-2020

To Date : 03-31-2020

Zone : All

Material : All

Task : All

Material	Amount	Area Treated	Application Rate	Times
Altosid WSP	808 ea	2.5 acre	322.68 ea / acre	16 times
Altosid XR	51 ea	0.12 acre	435.54 ea / acre	4 times
Altosid XRG	610 lb	101.67 acre	6 lb / acre	12 times
Aquabac XT	224 fl oz	14 acre	16 fl oz / acre	3 times
B.i.i. Briquets	4 ea	0.01 acre	435.54 ea / acre	1 times
Cocobear	369 fl oz	0.96 acre	384.02 fl oz / acre	13 times
Natular DT	115 ea	0.02 acre	6666.67 ea / acre	6 times
Talstar P	0.5 gal	1.49 acre	0.34 gal / acre	6 times
VectoBac 12AS	1071 fl oz	66.94 acre	16 fl oz / acre	21 times

## Task Time Summary March 2020

From Date : 03-01-2020

To Date : 03-31-2020

Zone : All

Employee Name : All

<b>Task Time Summary</b>			
<b>Task</b>	<b>Total Time</b>	<b>Total Timesheets</b>	<b>Total Time</b>
Administrative	1102:30 hrs	190	
Admin Leave	21:30 hrs	5	
Aerial Maintenance	203:30 hrs	21	
AM Briefing	48:37 hrs	111	
Annual Leave	306:30 hrs	73	
Assist	27:25 hrs	9	
Building & Grounds Work	273:24 hrs	133	
Chicken Program	25:53 hrs	17	
Computer Repair	100:50 hrs	22	
Daily Paperwork	63:16 hrs	137	
Field Experiment	463:19 hrs	153	
Fish Program	10:30 hrs	10	
GLP Management	259:30 hrs	93	
Ground Adulicide	06:16 hrs	6	
Ground Larvicide	108:46 hrs	76	
Ground Site Inspection	462:41 hrs	215	
Hand Adulicide	01:05 hrs	2	
Insectary	216:08 hrs	110	
Inventory	02:59 hrs	4	
Lab Experiment	134:45 hrs	57	
Leave Without Pay	27:30 hrs	4	
Mechanics Time	312:49 hrs	32	5378:15 hrs
Meeting	115:30 hrs	86	
Mosquito Pooling	07:10 hrs	5	
Mosquito Trap BG	76:14 hrs	19	
Mosquito Trap CDC Oc	61:26 hrs	11	
Mosquito Trap ID	18:58 hrs	14	
Mosquito Traps Misc	03:30 hrs	2	
Produce Papers & Programs	235:50 hrs	72	
Project Research	217:45 hrs	93	
Public Relations	05:00 hrs	3	
Public School Program	34:05 hrs	5	
Resupplying Trucks	12:29 hrs	24	
Sick Donated Leave	101:30 hrs	13	
Sick Leave	151:00 hrs	34	
Sick/Personal Leave	08:00 hrs	1	
Source Reduction (tires)	05:00 hrs	3	
Supervisory	28:10 hrs	17	
Training Classroom	00:30 hrs	1	
Training Field	87:35 hrs	24	
Travel	18:30 hrs	4	
Vehicle Maintenance	10:20 hrs	10	



BG Traps March 2020						
3/1/2020						
To :						
3/31/2020						
Trap Type :						
BG						
Species Name	2020 03					Species Total
	3	10	17	24	31	
Ae aegypti	10	18	13	14	12	67
Ae albopictus	4	3	2	11	7	27
Ae atlanticus	2	6	0	0	0	8
Ae canadensis	0	0	0	0	0	0
Ae eggs	0	0	0	0	0	0
Ae fulvus pallens	0	0	0	0	0	0
Ae infirmatus	9	10	0	3	5	27
Ae mitchellae	0	0	0	0	0	0
Ae signifera	0	0	0	0	0	0
Ae sollicitans	0	0	0	0	2	2
Ae taeniorhynchus	0	0	0	0	0	0
Ae triseriatus	0	2	0	1	0	3
Ae vexans	0	0	0	0	3	3
An atropos	0	0	0	0	0	0
An bradleyi	0	0	0	0	0	0
An crucians	231	62	11	114	80	498
An perplexens	0	0	0	0	0	0
An punctipennis	0	6	0	0	0	6
An quadrimaculatus	1	13	5	15	10	44
An walkeri	0	0	0	0	0	0
Cq perturbans	0	0	0	0	1	1
Cs inornata	0	0	0	0	0	0
Cs melanura	0	0	0	2	0	2
Cx coronator	0	0	0	0	0	0
Cx eraticus	0	3	0	1	1	5
Cx nigripalpus	19	26	24	14	3	86
Cx quinquefasciatus	121	179	188	800	186	1474
Cx restuans	26	5	13	0	0	44
Cx salinarius	18	44	9	7	8	86
Cx territans	0	0	0	0	0	0
Ma dyari	0	0	0	0	0	0
Ma titillans	0	0	0	0	0	0
Or signifera	0	2	0	0	0	2
Ps ciliata	0	0	0	0	0	0
Ps columbiae	0	0	0	0	0	0
Ps cyanescens	0	0	0	0	0	0
Ps ferox	0	0	0	0	0	0
Ps howardii	0	0	0	0	0	0
Tx rutilus	0	1	0	2	0	3
Ur lowii	0	0	0	0	0	0
Ur sapphirina	0	0	0	0	0	0
Wy Mitchelli	0	0	0	9	1	10
<b>Daily Total</b>	<b>441</b>	<b>380</b>	<b>265</b>	<b>993</b>	<b>319</b>	<b>2398</b>

Malaria vector
WNV/SLE vector
EEE vector
Dengue, yellow fever, chick-v, Zika

# Treatment Summary April 2020

From Date : 04-01-2020

To Date : 04-30-2020

Zone : All

Material : All

Task : All

Material	Amount	Area Treated	Application Rate	Times
Altosid WSP	1048 ea	3.24 acre	323.18 ea / acre	20 times
Altosid XR	78 ea	0.18 acre	435.54 ea / acre	8 times
Altosid XRG	90 lb	15 acre	6 lb / acre	11 times
B.t.i. Briquets	23 ea	0.05 acre	435.54 ea / acre	3 times
Cocobear	281 fl oz	0.73 acre	384.02 fl oz / acre	14 times
Duet 50%	32 fl oz	20.38 acre	1.57 fl oz / acre	1 times
Natular DT	73 ea	0.01 acre	6666.67 ea / acre	7 times
Sustain MBG	480 lb	64 acre	7.5 lb / acre	5 times
Talstar P	0.52 gal	1.54 acre	0.34 gal / acre	8 times
VectoBac 12AS	2900 fl oz	181.25 acre	16 fl oz / acre	41 times

## Task Time Summary 2020

From Date : 04-01-2020

To Date : 04-30-2020

Zone : All

Employee Name : All

Task Time Summary			
Task	Total Time	Total Timesheets	Total Time
Administrative	902:53 hrs	156	
Admin Leave	65:15 hrs	8	
Aerial Maintenance	207:30 hrs	23	
AM Briefing	39:11 hrs	91	
Annual Leave	219:15 hrs	48	
Assist	75:39 hrs	29	
Building & Grounds Work	225:45 hrs	122	
Chicken Program	30:42 hrs	14	
Computer Repair	127:40 hrs	21	
Daily Paperwork	52:57 hrs	125	
Field Experiment	520:40 hrs	160	
Fish Program	04:25 hrs	7	
GLP Management	29:15 hrs	16	
Ground Adulticide	10:55 hrs	8	
Ground Larvicide	144:05 hrs	109	
Ground Site Inspection	434:53 hrs	274	
Hand Adulticide	08:15 hrs	8	
Holiday	300:00 hrs	30	
Insectary	285:25 hrs	132	
Inventory	18:44 hrs	11	
Lab Experiment	200:00 hrs	87	5175:45 hrs
Leave Without Pay	141:15 hrs	15	
Mechanics Time	295:23 hrs	30	
Meeting	51:29 hrs	63	
Molecular Lab Work	85:15 hrs	19	
Mosquito Trap BG	58:24 hrs	37	
Mosquito Trap CDC Oc	15:59 hrs	6	
Mosquito Trap ID	07:59 hrs	11	
Mosquito Trap OV	01:09 hrs	15	
Produce Papers & Programs	116:30 hrs	45	
Project Research	97:00 hrs	40	
Public Relations	00:40 hrs	1	
Resupplying Trucks	18:50 hrs	33	
Sick Donated Leave	14:00 hrs	4	
Sick Leave	269:30 hrs	48	
Source Reduction (tires)	03:00 hrs	2	
Supervisory	30:02 hrs	17	
Training Classroom	09:40 hrs	4	
Training Field	15:35 hrs	7	
Vehicle Maintenance	40:41 hrs	24	

<b>BG Trap April 2020</b>					
<b>4/1/2020</b>					
<b>To :</b>					
<b>4/30/2020</b>					
<b>Trap Type :</b>					
<b>BG</b>					
	<b>2020 04</b>				
<b>Species Name</b>	<b>9</b>	<b>15</b>	<b>21</b>	<b>28</b>	<b>Species Total</b>
Ae aegypti	26	54	52	69	201
Ae albopictus	6	8	12	35	61
Ae atlanticus	0	0	0	0	0
Ae canadensis	0	0	0	0	0
Ae eggs	0	0	0	0	0
Ae fulvus pallens	0	0	0	0	0
Ae infirmatus	2	0	9	4	15
Ae mitchellae	0	0	0	0	0
Ae signifera	0	0	0	0	0
Ae sollicitans	0	0	0	0	0
Ae taeniorhynchus	0	0	2	38	40
Ae triseriatus	0	0	0	0	0
Ae vexans	0	1	0	4	5
An atropos	0	0	0	0	0
An bradleyi	0	0	0	0	0
An crucians	33	38	27	3	101
An perplexens	0	0	0	0	0
An punctipennis	0	0	0	1	1
An quadrimaculatus	2	19	9	9	39
An walkeri	0	0	0	0	0
Cq perturbans	0	0	0	1	1
Cs inornata	0	0	0	0	0
Cs melanura	0	0	0	0	0
Cx coronator	0	0	0	0	0
Cx eraticus	1	0	2	3	6
Cx nigripalpus	4	6	1	2	13
Cx quinquefasciatus	459	707	270	286	1722
Cx restuans	34	48	5	0	87
Cx salinarius	24	14	20	11	69
Cx territans	0	0	0	0	0
Ma dyari	0	0	0	0	0
Ma titillans	0	0	0	0	0
Or signifera	0	0	0	0	0
Ps ciliata	0	0	0	0	0
Ps columbiae	0	0	0	0	0
Ps cyanescens	0	0	0	0	0
Ps ferox	0	0	0	0	0
Ps howardii	0	0	0	0	0
Tx rutilus	1	1	0	0	2
Ur lowii	0	0	0	0	0
Ur sapphirina	0	0	0	0	0
Wy Mitchellii	0	0	0	1	1
<b>Daily Total</b>	<b>592</b>	<b>896</b>	<b>409</b>	<b>467</b>	<b>2364</b>

Malaria vector
WNV/SLE vector
EEE vector
Dengue, yellow fever, chick-v, Zika

# Anastasia Mosquito Control District of St. Johns County

120 EOC Drive, St. Augustine, FL 32092

Telephone: (904)-471-3107 \* Fax (904) 471-3189 \* Web: [www.amcdsjc.org](http://www.amcdsjc.org)

## BOARD OF COMMISSIONERS

Jeanne Moeller, Chairperson  
Trish Becker, Vice-Chairperson  
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## DISTRICT DIRECTOR

Dr. Rui-De Xue



April 1, 2020

Mr. Dana A. Smith  
400 Pelican Avenue  
Daytona, FL 32118

Dear Mr. Smith,

Based on the District's hiring policy and the interview committee's recommendation, I am pleased to offer you the full time Chief Pilot/Aviation Manager position (40 hours per week) with the Anastasia Mosquito Control District of St. Johns County. The terms of the offer are contingent upon successful completion of a driver's license check, previous employment verification, criminal background check and reference checks.

You will report to the Director, Dr. Rui-De Xue. This is an exempt position, meaning that you will not be paid an overtime rate. Your salary will be: \$75,000.00 per year to begin and then in six (6) months after your date of hire, and on the condition that you have obtained your PHPC License, your salary will raise by \$5,000.00 to a total of \$80,000.00 per year. It is paid on a bi-weekly basis, all subject to applicable tax withholdings. You are eligible for the full benefits package outlined on the attached summary, effective immediately from date of hire, which will be April 27, 2020, however, as discussed, you already have health insurance and will not require health insurance through the District. The HCR Exchange notice and job description are attached.

Your first day of work will be Monday, April 27, 2020. Please report to the AMCD Complex at 120 EOC Drive, St. Augustine, FL to begin your paperwork and training. Your normal schedule will be 6:30 A.M. to 4:30 P.M. Monday through Thursday, from April 27, 2020 through April 30, 2020 and then 6:30 A.M. to 3:00 P.M., Monday through Friday during the regular mosquito season from May 4, 2020 through October 30, 2020, however, night time hours, weekend and/or Holiday hours may be required depending on the seasonal and position needs.

You will be required to obtain your Florida Public Health Pest Control and Pesticide Application licenses within 6 months from date of hire and then it is required that you maintain the license by obtaining the required number of Continuing Education Credits (CEU)'s for the license.

Again, we are delighted to have you join us in this position as a Full Time Chief Pilot/ Aviation Manger position. However, we recognize that you retain the option, as does the District, of ending your

employment with the District at any time, with or without notice and with or without cause, however, the District requests the courtesy of 10 working days written notice, if possible. As such, your employment with the District is "at will" and neither this letter nor any oral or written representations may be considered a contract for any specified period of time.

Please contact me at (904) 471-3107 if you have any questions.

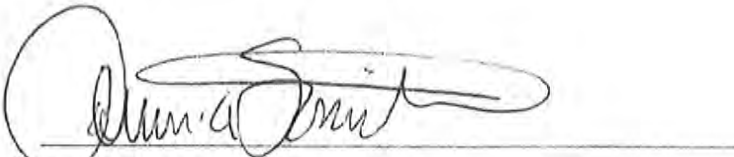
Welcome to the Anastasia Mosquito Control District of St. Johns County. Please let us know if you would like to accept the offer by signing below and returning one signed copy to us at the above address no later than Thursday, April 9, 2020.

Sincerely,

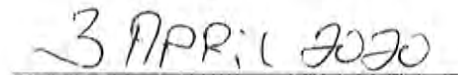


Dr. Rui-De Xue, Director

Cc: Mrs. Jeanne Moeller, Chairperson



Accepted by:



Date: