

LARVICIDING IN CHATHAM COUNTY

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Objectives

1. **Better understanding of larval control in Chatham County past and present.**
2. **The formulation of sand for mosquito control.**
3. **To learn about our batching plant.**
4. **The loading of sand into the Air-Tractor and Sand Hog**

Oh no here comes the rain. Wait
a minute job security



Larval inspections are conducted after rain events.

SURVEILLANCE DEPARTMENT
INSPECTS ALL KNOWN
BREEDING SITES.

AVIATION DEPARTMENT DOES
AN INSPECTION FLIGHT TO THE
DMCA AND BARRIER ISLAND
BREEDING SITES.



After Inspection

- ▣ All information from the inspection flight and all field inspections will be given to the Entomologist.
- ▣ The Entomologist along with the Director will determine the course of action.
- ▣ To treat or not to treat that is the ?

The Entomologist will then give out a spreadsheet showing total acreage and maps of larvicide targets to be treated by air to the essential personal.

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
	AERIAL LARVICIDING TARGETS 8-10-17																	
	AREA	SITE DESCRIPTION	SITE #	EST ACRES	R20	DENSITY	INSTAT	DATE	MAINT	ACRES TREATED	PRIME	SEC						
1	ICW	Cuaston DMCA	4069	1	4	10	2,4	8/11	yes		H	AT	1					
2	THUNDERBOLT	Jamies Avenue 458-3061/525-31H	4353	5	8	10	1,2	8/11	yes		H	AT	5					
13		Thunderbolt DMCA	4079	2	4	5	1	8/11	yes		H	AT	2					
14	THUNDERBOLT	83-Par	4085	8	8	1	1	8/10	yes		H	AT	8					
15		Roberts	4087	11	12	5	1	8/10	yes		H	AT	11					
16		Thunderbolt Swamp	4086	13	12	2	1	8/10	yes		H	AT	13					
17		Herbed @ 37th	4349	10	7	6	1	8/10	yes		H	AT	10					
45	PULASKI	Fort Palaski East	4149	30									30					
47	TYBEE	Big Dump Marsh	4064	10	4	5	2	8/11			H	AT	10					
50		Brown's Construction	4058	5	4	10	3	8/11			H	AT	5					
56		13th Street	4054	1	4	10	2,3	8/11			H	AT	1					
57		Brown's Pond	4055	1	6	100	2,3	8/11			H	AT	1					
60		Slough	4059	4	4	20	2,3	8/11			H	AT	4					
59		Solomon Swamp	4061	5	5	10	2,3	8/11			H	AT	5					
60		Tennis Court	4062	1	3	5	2,3	8/11			H	AT	1					
61		1th Terrace	4077	1	4	5	2,3	8/11			H	AT	1					
62	ISLANDS	Little Greca	4002-4004	3	5	50	2	8/10	yes		H	AT	3					
75	HOW/DUTCH	Terrapin Swamp	4077	3	7	1	1	8/10	yes		H	AT	3					
102	HUTCHINSON	Hutch W. Woods	4350	12			1	15	8/11	yes	H	AT	12					
107		Race Track Police	4117	13	3	15	1	8/11	yes		H	AT	13					
111	DMCA	12-B	4138	432	4	2	10	8/11	yes		AT	H	432					
114		14-A	4141, 4142, 4143	256	4	30	2,4	8/11	yes		AT	H	256					
115		14-B	4144	342	4	50	2	8/11	yes		AT	H	342					
117		King's Island (64, 86, 84, 17)	4126-4129	154			1	50	8/11	yes	AT	H	154					
135	SAY RIVER	Road to Elba	4106	6	12	3	1	8/10	yes		H	AT	6					
144	AIRPORT	Airways Avenue	4261	7	4	10	1,2	8/11	yes		H	AT	7					
146		3 Control Tower	4267	11	6	5	1,2	8/11	yes		H	AT	11					
148	East Pooler	Highland Crossing Swamp	4370	25	3	5	1	8/11	yes		H	AT	25					
155		Newport Swamp	4375	22	4	5	1	8/11	yes		H	AT	22					
164	CONSTANTINE	Coastlines	4240	136	6	15	1	8/10	yes		AT	H	136					
171	QUACCO RD	Regency Crescent	4279	18	5	10	1	8/10	yes		AT	H	18					
172		Regency Dracoo	4289	2	5	15	1	8/10	yes		AT	H	2					
173		Luxel Woods	4243	20	6	10	1	8/10	yes		H	AT	20					
174		Grier's	4248	8	8	15	1	8/10	yes		AT	H	8					
175		Hopeton Plantation	4165	16	5	15	1	8/10	yes		H	AT	16					
184	FORT ARGYLE	Old River Road	4379	5	5	2	2,3,4	8/10	yes		H	AT	5					
195	HENDERSON	Henderson Swamp	4334	22	5	10	1	8/10	yes		H	AT	22					
196		Henderson-Little Neck	4166	4	8	15	1	8/10	yes		H	AT	4					
212	GEORGETOWN	Doretail	4185	15	4	15	1	8/10	yes		H	AT	15					
213		King George Apts.	4281	7	6	25	1	8/10	yes		H	AT	7					
214		Linea Gate	4184	27	5	15	1	8/10	yes		H	AT	27					
219		Bluehill Ct.	4189	17	5	10	1	8/10	yes		H	AT	17					
216		Cambridge Pool House	4183	3	4	20	1	8/10	yes		H	AT	3					
217		Chevis Road	4313	3	4	20	1	8/10	yes		H	AT	3					
223	BUCKHALTER	Backlaxer (Jack Lewis woods 623)	4219	17	4	25	1	8/11	yes		H	AT	17					
223		Oakland Farm	4378	8	3	15	1	8/11	yes		H	AT	8					
224	(Salt Creek)	Jags Attwood woods	6183	13	5	10	1	8/11	yes		H	AT	13					



Aerial Larviciding



The number one priority for all
aerial missions



We use two different type of aircraft to treat in Chatham County

MD 500



402 AIR-TRACTOR



Larviciding in the past..



- ▣ It used to take 6 people over 2 hours just for 1 load in our fixed wing aircraft.
- ▣ Overtime budget through the roof.

The present is great

- Now it only takes 3 people 15 minutes per load....
- 1 pilot, 1 aircraft loader, and 1 batch plant operator
- Saves the County money, County happy.



We also use a variety of hand treatments as well for smaller targets and storm drains

DITCHES



CATCH BASINS



Major County wide rain event

In case of a major rain event in Chatham county. We can and we have treated over 3000 acres in a 8+ hour day.



Our biggest concern in major rain event is the DMCA, which is largest of our aerial treatment sites



The Batch plant...



The 5 main components of are batch plant

- 1. Altosid SR 20 Mixture**
- 2. The silo.**
- 3. The hopper.**
- 4. The mixer.**
- 5. The conveyor**

We use the max manufacture label rate in our sand formulation which is

- ▣ 64 oz of **SR-20** + 64 oz of water and 6.5 lbs of **Hisil** for every 600 lbs of sand.
- ▣ With 600 lbs. of sand we cant treat up to 60 acres worth of breeding sites in the county.
- ▣ We normally treat around 500+ acres per hour with the Helo and Air Tractor going at the same time during missions.

The silo can hold
up to 37 tons of
sand

During hurricane
season, we try to
maintain a
minimum of 18
tons in the sand
silo.



The hopper weighs our sand from the silo and then dumps it into the mixer.

WE CAN WEIGH 1 TO 1800 POUNDS AT A TIME IN MANUAL MODE.

IN AUTO MODE IT IS WEIGHED IN 600LBS INCREMENTS.

THE BATCHER CONTROL PANEL



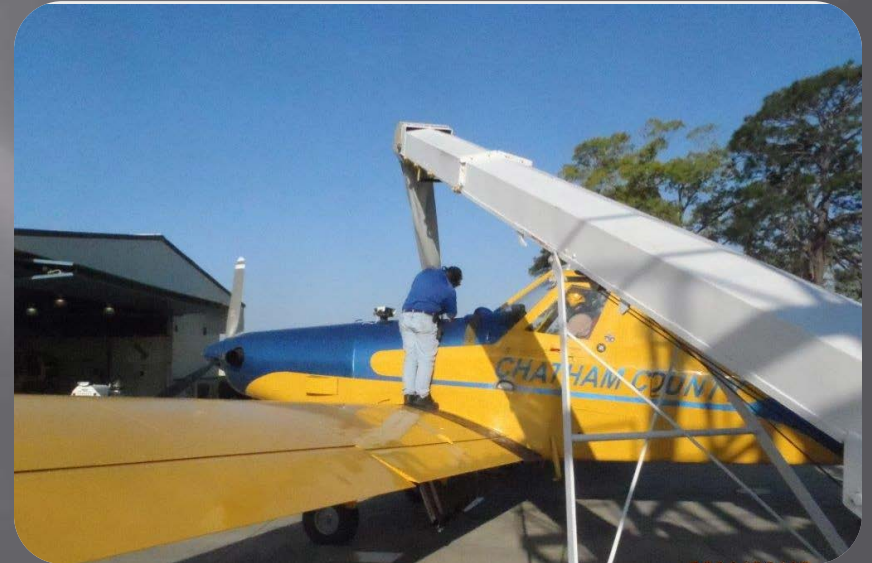
The mixer where all the magic happens.

ALTOSID SR-20 IS INTRODUCED TO THE SAND BY A PNEUMATIC PUMP AND MIXED FOR A MIN OF 2 MINUTES

AFTER 2 MINUTES OF MIXING **HISIL** IS INTRODUCED INTO THE MIXER FOR ADDITIONAL 2 MINUTES AS A DRYING AGENT BY HAND



The conveyor moves sand from the mixer to the aircraft



Loading the Air Tractor



Our team goal is to have the
aircraft on and off the loading
pad in 5 minutes or less without
fuel and less than 10 minutes
with fuel

AS LONG AS WE DO IT SAFELY

We can also load our sand hog with 6000+lbs of sand for day to day missions



Our future plans for next year aerial larvicide program are





On behalf of Chatham County
Mosquito Control Thank you for
your time

