

2017 Annual Report

Field Operations Manager Report

This year was the perfect storm for mosquitoes. We started the year off with a very wet winter, which turned into a very wet spring. The flood-water mosquitoes started to hatch early with the large amount of water and the warming temperatures. With the help of our field crew going out the first of May and throwing Altosid and Natular pellets, it helped to slow the effects that the environment brought. We had to start fogging the third week of May in the areas that have more of the flood-water mosquito problems, i.e., Clarkston. Many of our complaints early on came from the early hatching. When we got our full crew up and running in June, we were able to combat a lot of the mosquitoes that were ready to hatch by the larvaciding that took place.

Mosquito numbers increased as the summer progressed and temperatures started to rise, with the peak being the first week in August. With the warming temperatures, wet spring, and fewer summer storms than usual, it became the perfect environment for the West Nile Virus. We had many people report it was a great year and they hadn't seen many mosquitoes, while others reported it was the worst year in quite a while. Our equipment worked well this year, and changing over to the new handhelds made it quite easy to keep up with statistics.

Some statistics:

Mosquitoes Trapped/Counted: 15,606
Total Inspections: 464
Total Treatments: 2,045
Truck Miles: 39,607 miles
ATV Miles: 3,621 miles

<u>ADULTICIDE</u>	<u>Used In 2017</u>	<u>Inventory Jan 2018</u>
Diluent Oil	1,213 gallons	660 gallons
Kontrol 30-30	303 gallons	165 gallons
<u>LARVICIDE</u>		
BVA 2 Oil	285 gallons	440 gallons
Altosid 30-day	2,071 briquets	2,800 briquets
Altosid 150-day	440 briquets	0
Natular	613 lbs	640 lbs
Natular XRT	220 briquets	220 briquets
Flush	5 gallons	3.75 gallons
Abate	5,386 lbs	700 lbs
FourStar Bti-CRG	639 lbs	1,505 lbs

The week of August 4th brought our first positive traps for West Nile Virus. Over the season, we tested a total of six positive traps by the middle of September. On September 15th we got word that our first human case of West Nile Virus was detected in Nibley. There were two additional human WNV cases, one of which resulted in death. We also had three horses test positive in the valley for WNV.

The main goal this upcoming year is to see the acquisition of land and start the process of building for the district. Another goal is to continue working to understand the whole process of speciation and the minute intricacies that each breed of mosquito has according to its species type. Our goal of keeping all equipment calibrated correctly and operating correctly continues. Last but not least, we always seek to keep everyone safe.

Richard Rigby

Field Operations Manager

Administrative Manager Report

As the new Administrative Manager, this has been an interesting and eventful year. Though Terrie Wierenga stepped down from this position in May 2017 after serving for many years, she stayed on as Website Manager and continues to offer her valuable expertise to the Cache Mosquito Abatement District.

There continue to be many reporting requirements for special districts in Utah, and all of these have been completed this year in a timely manner for CMAD. Beginning this year the District was required to post to the Utah Transparency site, which involves mapping our accounts to the state template and uploading quarterly reports of all expenditures. This has been done successfully each quarter.

The financial statements review and agreed-upon procedures report was performed by Matt Regen, CPA, in May. He reported CMAD is in a good financial position, with necessary internal controls in place to protect against fraud or abuse of monies received.

Employee hours have been tracked since 2012, when the District took over all management of mosquito abatement. The table below shows hours spent doing major tasks.

HOURS	2013	2014	2015	2016	2017
Larvicide	1745.5	1988	2175.25	2152.5	2288.75
Fogging	813.25	1180	963.25	1030.5	1047.25
Surveillance	270.5	206.25	206.75	220.25	203
Maintenance	331.25	383.5	288.75	288	292.25
Formal Training	90.5	109	83.75	85.75	104
Operations Management	173.75	223.5	318.75	352.25	427.75
Admin Management	286	348.25	304.25	420.25	705.25
Website Management					68.25
Surveillance Interns		66	74.5		
Total Hours	3710.75	4504.5	4415.25	4549.5	5136.5

I began working for the District at the end of March 2017. There has been a tremendous learning curve this past year for me, but my work is interesting and I am enjoying this position very much. I appreciate the officers and members of the board as well as fellow employees, all of whom I find to be dedicated and resourceful in fulfilling the mission of CMAD.

Debbie Mays
Administrative Manager