



MOSQUITO CONTROL SERVICES, LLC

**JEFFERSON PARISH
Monthly Report
October 2016**

Most of our recording stations throughout the Parish recorded low precipitation levels during October. This pattern combined with more moderate temperatures initiated a transition of larval and adult mosquitoes to permanent water types. Although, rainfall received at the end of September yielded ample pest mosquitoes in early October, the latter weeks of the month saw mostly less aggressive species. These more docile mosquito types, however, were still of concern due to their potential ability to transmit disease. In response, larviciding efforts were directed at ditches, catch basins, and other septic sites in order to reduce adult mosquito emergence. Fortunately, slightly cooler temperatures lengthened the larval development period and provided additional time for our crews to affect control. Inspectors addressed these areas with bacterial treatments that were specific to mosquito larvae. Crews covered in excess of 2.8 million square feet of active breeding surface water during the month. Additionally, mosquito fish were released into swimming pools and other permanent water locations to control and help prevent future larval development.

Although monitoring devices recorded a decrease in adult pestiferous mosquito species, populations as a whole remained at levels comparable to that of the previous month due to an increase in the less aggressive permanent water mosquito types. Adult mosquitoes were addressed by the use of truck-mounted, ATV, and aerial sprayers. Spray trucks alone treated more than 77,000 acres over 304 truck nights while twin-engine aircraft mounted addressed roughly 12,000 acres that were otherwise inaccessible.

Encephalitis activity slowed during the month as it has done historically over the years. Positive surveillance samples were still present throughout much of the State, yet in lower numbers than the previous months. Our encephalitis surveillance program continued to monitor mosquito and bird blood samples. A few positive West Nile samples were received from the LSU Animal Disease Laboratory in October. Our encephalitis suppression protocol was immediately initiated upon receipt of each positive confirmation.

A detailed report of this month's mosquito abatement activities follows this narrative.

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