Central Mass. Mosquito Control Project:
Identifying Mosquito Problem Areas

MAP 1: Hopkinton Mosquito Breeding Wetlands

MAP 2: Hopkinton Service Request Calls 2007

MAP 3: CMMCP Hopkinton Town Sections

MAP 4: Hopkinton Map Sections by Request Call Numbers

The Central Mass. Mosquito Control Project was established by the Massachusetts State Legislature in 1973 and presently services 39 towns and communities in Worcester and Middlesex Counties. Operating with Integrated Pest Management (IPM) in mind, CMMCP is continually striving to provide the best innovative practices for the management of mosquitoes and arbovirus suppression.

The presence of West Nile Virus and Eastern Equine Encephalitis in local mosquito populations stresses the need to be aware of all the dynamics that are involved in the transmission of arboviruses to humans and domestic livestock.

These compelling maps show a simple example of how CMMCP has been able to use GIS to increase response, and more efficiently manage the numerous service requests in central Massachusetts.

MAP 1: This map shows the wetlands in the town of Hopkinton that have the characteristics of those that typically breed mosquitoes. Using this map, CMMCP is able to identify possible sources for mosquito populations.

MAP 2: Based on a service request system, CMMCP is able to generate the locations of residents who report high levels of mosquito activity. This map contains those geocoded locations in Hopkinton for the 2007 season.

MAP 3: This map organizes service requests in a town. CMMCP has treated 98% of the town’s Mosquito populations, and this map shows the areas treated.

MAP 4: By utilizing the information from the previous maps, this map uses a color-coded display which indicates where the highest number of service requests come from. This knowledge allows CMMCP to focus their efforts on mosquitoes in these locations.

This is just one example of how CMMCP uses GIS into a single aspect of the Project. There are many other ways that CMMCP uses GIS to provide better service to the towns and communities that we serve. The integration of mosquito surveillance and service request data, along with other data sets, all work to improve the overall effectiveness of CMMCP.

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