

GENERAL PEST MANAGEMENT PLAN for 2018

Public Health for Madison and Dane County (PHMDC)	31 October 2018
Agency Name	Date Reviewed and updated

General Philosophy

Our agency will manage mosquitoes on City of Madison property in accordance with the Policy Regarding Pest Management on City Property. Our Integrated Pest Management (IPM) program will evaluate and give preference to non-pesticide management practices and use reasonably available alternative pest control methods. When non-toxic forms of pest control are ineffective and pest populations pass, or threaten to pass, accepted tolerance thresholds, we will apply microbial pesticides. We continue to look for alternative pesticides to achieve larval mosquito control. PHMDC does not currently apply pesticides to control adult mosquitoes. This would be considered if data identified a human disease threat that needed to be controlled through adult mosquito pesticide application.

Agency Contact

The IPM Coordinator listed below is responsible for coordinating our agencies pest management activities including, as appropriate, developing and revising the pest management plan for the agency, directing staff, contracting with outside pest management contractors, and submitting pest management plans and reports.

John Hausbeck	Environmental Health Services Supervisor
IPM Coordinator Name	Title
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E-mail address	Phone

Description of Pest Management Needs

The Department applies larvicide as part of a mosquito monitoring and control plan for West Nile virus (WNV) vectors that follows Integrated Pest Management (IPM) methods. The primary targets for the program are *Culex species* mosquitoes, which are considered to be the primary vector of West Nile virus (WNV). PHMDC has set three mosquito larvae per dip as the treatment threshold. This threshold is consistent with thresholds set in mosquito control permits secured by other municipalities in Wisconsin. Maintenance or permanent source reduction methods will be considered in areas that exceed the established threshold. When IPM methods

determine that treatment is necessary, mosquito larvae treatments will involve the application of a granular formulation of VectoLex to standing water. The active ingredient of this product is *Bacillus sphaericus* spores and toxins, which are specific to mosquito larvae and related insects. The product is non-toxic to humans, other mammals, fish and birds. We continue to look for opportunities to use minnows as a tool to control mosquito larvae in water sources that are able to support a minnow population throughout the season. In 2011, it was found that releasing minnows in these types of sources resulted in season-long control of mosquito larvae. Implementing this control method requires more staff time, which is why it has not been implemented since 2011. We review and revise our integrated pest management plan as required by the WI Department of Natural Resources for our mosquito control permit. This plan is available from the Department and will be made available on the Department webpage.

Pest Management Requirements as set by City Policy

1. Our agency will maintain appropriate records of pest monitoring data, pest control actions attempted (both non-chemical and chemical), and results of pest control activity. We plan to submit our annual report no later than February 1st of the following year to the Pest Management Advisory Committee. This report will contain the following information:
 - a. Total amount of pesticide and active ingredient applied in the given year and the purpose for those applications.
 - b. Other pest control actions taken during the year
 - c. Reference to the complete program report, which provides pest surveillance data for the given year.
2. When chemical pest control is necessary, we will provide at a minimum, readily visible posting for a period of 48 hours following the application. This time intervals may be extended based on health or safety concerns. For areas that receive pesticide applications on a regular basis, permanent signs will be posted.
3. Any complaints regarding health effects possibly related to pesticide applications will be reported to the Public Health Department at the earliest opportunity.
4. Any unusual amount of pesticide use due to unusual circumstances will be reported to the Director of Public Health or his/her designee at the earliest opportunity.
5. The IPM Coordinator and all supervisors having responsibility for the handling, application, disposal or storage of pesticides will be State certified under the Department of Agriculture, Trade and Consumer Protection's Pesticide Applicator Certification

Program for Aquatic Plant and Mosquito Control. All employees and volunteers applying pesticides will be State certified or working under the supervision of a certified applicator. All employees having any involvement with pesticide handling, application, disposal or storage will receive basic training in pesticide safety.

6. Our agency will store, apply, and dispose of pesticides and pesticide containers in accordance with label directions and any other State and Federal regulations.
7. Our agency will not apply any pesticides that are currently under EPA Special Review.

2017 PESTICIDE APPLICATION SUMMARY FORM

Department: __Public Health Madison and Dane County__

Completed By: John Hausbeck

Product Used	Pounds (lbs) of Product Used	Pounds (lbs) of Active Ingredient Used	Purpose of Use	Location(s) and Area(s) Treated
VectoLex CG (<i>Bacillus sphaericus</i>)	96.6 lbs	Total * 7.5% = 7.24 lbs	Mosquito larvae control	Storm water control system including ditches and ponds.

Other pest control methods and actions: We continue to look for opportunities to eliminate water sources or advise that water sources be redesigned so as to not produce mosquito larvae. We were not able to implement minnows as a mosquito larvae control tool in 2017 due to limited staffing resources.