PROGRAM INTRODUCTION

The Ohio Environmental Protection Agency’s (Ohio EPA) Mosquito Control Grant (MCG) Program is a collaborative effort between Ohio EPA and the Ohio Department of Health (ODH). The MCG Program was developed to make funding available to entities responsible for implementing mosquito control and source reduction measures in support of Ohio’s efforts to reduce the potential for an outbreak of mosquito-borne viruses such as Zika, West Nile, and La Cross Encephalitis.

While most of the 12 million scrap tires generated in Ohio each year are recycled or properly disposed of, many still end up stockpiled or illegally dumped. Scrap tires provide excellent breeding sites for container-breeding mosquitoes known for carrying diseases such as Zika Virus, West Nile Virus and Chikungunya. The fundable activities approved under the MCG Program will simultaneously reduce the potential for an outbreak of a mosquito-borne virus and reduce the threat that scrap tires and scrap tire dumps pose to human health and the environment.

WHO CAN APPLY

Those eligible to apply are local health departments and other related governmental entities defined as an agency of the state. Any agency of the state applying for MCG monies that is not a local health department, must demonstrate collaboration with a local health department by obtaining sponsorship of the MCG and a letter of support.

FUNDING CRITERIA

These competitive grants are awarded based on whether applicants meet the criteria described below. Ohio EPA will consider the following elements during the application review:

- Availability of grant funds
- Submission and completion of all required forms
- Comprehensive and concise details regarding proposed mosquito control activities, collaborative efforts, and a proposed or existing mosquito surveillance program in the Executive Summary
- Submission of a mosquito surveillance plan (as an attachment to the MCG application)
- Submission of other attachments as required (letter of support)

*Note: An applicant must have a mosquito surveillance plan (new or existing) to receive grant monies

APPROVED MOSQUITO CONTROL ACTIVITIES

1. Mosquito surveillance
2. Larval control
3. Adult mosquito control
4. Community outreach and education
5. Breeding source reduction, e.g. tire/trash removal
6. Seasonal employee(s) – must describe job duties
7. Contracted services
ALLOWABLE ACTIVITIES PER MOSQUITO CONTROL GRANT

1. Mosquito Surveillance
   - Traps
   - Dippers
   - Mapping equipment (e.g., GPS Units)
   - Postage supplies
   - Replacement bulbs
   - Batteries
   - Materials required for CDC Gravid Trap Brew
   - Gasoline directly associated with performing mosquito surveillance (no other travel expenses are allowed)
   - Mosquito surveillance plan preparation and/or training

2. Larval Control
   - Granules, pellets, tablets, dunks, etc.
   - Bacterial insecticides
   - Larvicides
   - Backpack sprayers

3. Adult Control
   - Adulticides
   - Contracted spraying services
   - Backpack sprayers
   - Truck mounted sprayers or foggers

4. Community Outreach
   - Educational materials (e.g., brochures, pamphlets, translation services, etc.)
   - News release, radio broadcast, television broadcast
   - Billboards
   - Screen repair kits
   - Doorhangers
   - Bug repellent (for community distribution)
   - Dunks (for community distribution)

5. Source Reduction
   - Removal of illegally dumped scrap tires
   - Scrap tire collection events
   - Spring clean-up events
   - Removal of solid waste commingled with scrap tires

6. Seasonal Employee(s)
   - Pay for the salaries of seasonal employee(s) to assist with any of the approved mosquito control activities described above

7. Contracted Services
   - Use of grant monies for contracted mosquito control services

*Note: No MCG monies can be utilized to pay for any portion of full-time, non-seasonal staff salary or benefits
IF YOU RECEIVE A GRANT AWARD

Grant Agreement - All grant recipients must enter into an agreement (contract) with Ohio EPA to authorize receipt and expenditure of grant funds. The grant agreement will specify the total grant award and stipulate exactly how grant monies may be spent. This MCG application will serve as the grant recipient’s scope-of-work outlined in the grant agreement.

Timeline - Applications must be received by Ohio EPA no later than 5:00 PM on March 31, 2017. Applications received after this date and time will not be considered.

Grant awards will be announced on May 1, 2017.

Once grant awards are announced, grant recipients will receive a grant agreement for signature. The signed copy of the agreement is returned to Ohio EPA. The grant agreement is then signed by the director of Ohio EPA, establishing the effective date of the grant agreement. The significance of the effective date is emphasized because grant recipients cannot be reimbursed with MCG monies for any expenditures made prior to the effective date of the grant agreement. MCG monies will be distributed in July 2017.

The expiration date for the grant period is June 30, 2018.

Final Report - The grantee must submit all required grant final reports and supporting documentation such as invoices and proof of payment by June 30, 2018.

Payment Schedule – Payment is contingent on Ohio EPA obtaining the requested monies in State Fiscal Year (SFY) 2018 and subject to cash availability. After final execution of the grant agreement, grantees will receive checks or electronic payment for the full amount of the grant award in July 2017.

APPLICATION PROCEDURES

All applications must be completed using the 2017 Ohio EPA MCG Application. All information requested in the grant application must be provided, including any necessary attachments or the application will not be considered. Once the 2017 MCG Application is signed and dated by an authorized official, the applicant should save the application as a pdf using the applicant name (Entity Name MCG Application.pdf), and then submit to Ohio EPA. Applicants must submit two (2) copies of the MCG Application; one via email and an original copy via mail to:

- mosquito.grant@epa.ohio.gov Subject: [Applicant Name] MCG Application
- Ohio Environmental Protection Agency
  Division of Materials and Waste Management
  Attention: Adam Cummins
  P.O. Box 1049,
  Columbus, Ohio 43216-1049
APPLICATION ASSISTANCE

Applicants that need assistance with completing an application or have any questions regarding the mosquito control grant program are encouraged to contact the Ohio EPA. Mosquito Control Grant Program contacts listed below:

Contact Leanne Greenlee at leanne.greenlee@epa.ohio.gov or (614) 705-1012 for questions regarding the application process.

Contact Adam Cummins at adam.cummins@epa.ohio.gov or (614) 728-5328 for technical assistance regarding mosquito control activities and mosquito surveillance plans.

MOSQUITO SURVEILLANCE PLAN

A mosquito surveillance program monitors larval and adult mosquito populations throughout the duration of mosquito season (typically May – October) and is considered the most critical component of an overall mosquito control program. It is the very first step that can be taken to protect human health from potential mosquito-borne diseases. Mosquito surveillance provides the necessary information required to make data-based decisions for targeted mosquito control activities. These activities include: source reduction; community outreach; larval control (larviciding); and adult control (adulticiding). At a minimum, data acquired from mosquito surveillance can assist with the following:

- Monitor mosquito population sizes
- Determine which mosquito species are present in a defined geographical area (distribution)
- Identify significant mosquito breeding grounds
- Detect the presence or absence of mosquito-borne disease (estimate the level of risks posed to human health)
- Assist in determining the most appropriate and effective mosquito control activities (effective, disease-reducing interventions)
- Assist in measuring the success of implemented mosquito control activities
- Provide the necessary data required for creating detailed distribution maps

Using mosquito surveillance data to target mosquito control activities may provide an overall cost savings to a mosquito control program. Surveillance data can be utilized to help concentrate resources by: identifying a threat to a specific geographic area; determining the chemicals required to control a specific species of mosquito; and avoiding routine spraying in areas that pose little risk.

A mosquito surveillance plan should consider each of the following components:

- Number and type of traps
- Sampling locations and sampling frequency
- Larval and pupal, adult mosquito surveillance
- The planned response to confirmed or suspected human cases
- Lab analysis
- How surveillance data will be used and tracked or mapped
BREEDING SOURCE REDUCTION

Second only to implementing a mosquito surveillance program, breeding source reduction is the most effective and cost-efficient mosquito control strategy. Removing potential mosquito breeding sites can reduce mosquito populations and costs associated with implementing larval and adult mosquito control activities. Container breeding mosquitos prefer artificial containers such as scrap tires, plastic containers, glass bottles, and other solid wastes that are often found commingled in illegal scrap tire dumps and solid waste open dumps. Therefore, it is critical that mosquito control programs concentrate resources on removing potential mosquito breeding sites by hosting scrap tire take-back events, spring clean-ups, and illegal scrap tire dump abatement projects.

In some instances, potential breeding sites such as illegal scrap tire dumps have been identified but can take some time to clean-up, as they can require a significant amount of resources. In these cases, providing mosquito surveillance while these sites wait to be abated will help evaluate the potential risk posed to human health and allow for the implementation of mosquito control strategies as necessary.

COLLABORATION AMONG MULTIPLE AGENCIES/ENTITIES

Applicants that demonstrate a strong collaborative effort will be given high consideration to receive grant monies. As governmental agencies continue to do more with less, establishing collaborative partnerships will assist with stretching limited grant dollars and expanding services. In addition, collaboration that crosses political boundaries provides more protection of human health, as mosquitoes are not confined to these boundaries.

A collaboration is not a simple exchange of grant monies from one agency to another. Agencies should establish a mutually beneficial partnership where each partner can contribute by providing information, services, dollars, and/or other resources. A collaborative effort will help connect the essential people, processes, and information involved in providing an effective mosquito control program. This will entail strong communication, networking, coordination and cooperation among the collaborative partners.
OHIO DEPARTMENT OF HEALTH:
MOSQUITO SURVEILLANCE AND CONTROL WORKSHOPS

In the spring of 2017, ODH will conduct mosquito surveillance and control workshops in each of Ohio’s eight public health regions. The overall goal of these workshops is to provide mosquito control staff within local health jurisdictions in Ohio with the tools necessary to develop and implement an effective, integrated mosquito management program.

Participants will learn about the breeding habits, biology and ecology of mosquitoes; how to develop an effective mosquito surveillance plan; how to collect specimens; how to develop a comprehensive mosquito management plan; how to interface with the ODH laboratory and the public; legal issues associated with mosquito control activities; and the importance of pesticide resistance testing.

All local health jurisdictions in Ohio are encouraged to participate in these workshops. Jurisdictions that do not currently have a mosquito surveillance plan will be provided with tools to help them develop these plans, and jurisdictions that do have plans will learn strategies for strengthen these plans. And all mosquito control staff – no matter their level of knowledge or experience – will benefit from learning about new sample submittal procedures developed by ODH’s laboratory to improve the quality of surveillance data. The full-day workshops (which are all identical) will be held as follows:

**March 29, 2017**  
University of Findlay  
Alumni Memorial Union  
Multipurpose Room  
225 Frazer Street  
Findlay, OH 45840

**March 30, 2017**  
Tri-County Board of Recovery & Mental Health Services  
Marianne Helmlinger Board Room and Training Center  
1100 Wayne Street, Suite 4000  
Troy OH 45373

**March 31, 2017**  
The Health Collaborative  
Learning Center  
615 Elsinore Place, Suite 500, Room B  
Cincinnati, OH 45202

**April 11, 2017**  
Holzer Medical Center - Jackson  
Community Conference Room  
500 Burlington Road  
Jackson, OH 45640

**April 12, 2017**  
Mr. Lee’s Restaurant  
2000 E. Wheeling Ave.  
Cambridge, OH 43725  
(740) 432-4922

**March 30, 2017**  
Franklin County Emergency Management and Homeland Security  
5300 Strawberry Farms Blvd.  
Columbus OH 43230-1049

**April 13, 2017**  
BWC Garfield Heights Customer Service Office  
4800 E. 131st St., Suite A  
Garfield Heights, OH 44105

**April 11, 2017**  
Summit County Public Health Auditorium  
1867 West Market Street  
Akron, OH 44313
To register for a workshop, please email your contact information by **March 10, 2017**, to Barb Garrison at barb.garrison2@odh.ohio.gov. Depending on the number of registrants, organizations may be asked to limit the number of individuals attending the workshops.

**EXECUTIVE SUMMARY**

Applicants must include an Executive Summary with this application. The Executive Summary must provide a comprehensive and concise explanation of each proposed mosquito control activity. A breakdown of costs associated with each proposed activity must also be included. In addition, a summary of a new or existing mosquito surveillance program should be included in the Executive Summary and a mosquito surveillance plan provided as an attachment to the MCG Application.

If a grant application is being submitted as part of a collaborative effort among several different agencies, then the Executive Summary should clearly state who the collaborative partners are and how resources are being shared among those partners. Provide an explanation as to how grant monies will enable or strengthen this collaboration.

**EXECUTIVE SUMMARY CHECKLIST**

- Entity responsible for carrying out mosquito control activities
  - Collaborations should describe the roles and responsibilities of each partner

- Demonstration of financial need
  - e.g., Entity has $1,000 remaining in program funding but needs a $5,000 piece of equipment or MCG monies are needed to continue surveillance activities

- Description of geographic areas benefiting from mosquito control activities
  - Emphasize how collaboration crosses other jurisdictional boundaries that aren't typically covered by a partner

- Applicant should describe its current mosquito control program and how MCG monies will be used to enhance an existing or establish a new program

- Provide a detailed description of each proposed mosquito control activity that MCG monies will be used for. This includes:
  - Equipment
  - Materials
  - Seasonal staff – provide description of responsibilities
  - Methods
  - Technologies
  - Labs (if applicable)
  - All associated costs
  - If removing solid waste or scrap tires from an illegal site, please provide details
- A summary of a proposed or existing mosquito surveillance program that is supported by an attached mosquito surveillance plan

- A detailed description of a proposed collaboration that identifies each partner, the role and responsibility of each partner, and how MCG monies and services will be shared among the partners
## Application Completeness [5 points total]

<table>
<thead>
<tr>
<th>POINTS:</th>
<th>Yes</th>
<th>No</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 – Did the applicant utilize the 2017 Mosquito Control Grant Application?</td>
<td>□ Yes □ No</td>
<td></td>
</tr>
<tr>
<td>2 – Application is complete with all required information?</td>
<td>□ Yes □ No</td>
<td></td>
</tr>
<tr>
<td>• Includes all applicable attachments</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Tables A-G</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Section H: Authorized official’s signature</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 – Do the costs described in the Executive Summary, match the costs in the Table H?</td>
<td>□ Yes □ No</td>
<td></td>
</tr>
</tbody>
</table>

## Mosquito Surveillance Plan [35 points total]

<table>
<thead>
<tr>
<th>POINTS:</th>
<th>Yes</th>
<th>No</th>
</tr>
</thead>
<tbody>
<tr>
<td>10 – Does the applicant provide a summary of a new or existing mosquito surveillance plan in the Executive Summary?</td>
<td>□ Yes □ No</td>
<td></td>
</tr>
<tr>
<td>10 – Does the application include its mosquito surveillance plan as an attachment?</td>
<td>□ Yes □ No</td>
<td></td>
</tr>
<tr>
<td>10 – Does the mosquito surveillance plan include the minimum components of a mosquito surveillance program?</td>
<td>□ Yes □ No</td>
<td></td>
</tr>
<tr>
<td>5 – Does the applicant discuss how mosquito surveillance data will be used in the decision-making process for the mosquito control program?</td>
<td>□ Yes □ No</td>
<td></td>
</tr>
</tbody>
</table>

[Consideration: did the applicant attend or plan on attending an ODH Surveillance Workshop?]

## Executive Summary [40 points total]

<table>
<thead>
<tr>
<th>POINTS:</th>
<th>Yes</th>
<th>No</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 – Does the applicant clearly state the entity responsible for each proposed mosquito control activity?</td>
<td>□ Yes □ No</td>
<td></td>
</tr>
<tr>
<td>4 – Does the applicant demonstrate a financial need?</td>
<td>□ Yes □ No</td>
<td></td>
</tr>
<tr>
<td>3 – Does the applicant clearly state the geographic areas benefiting from proposed mosquito control activities?</td>
<td>□ Yes □ No</td>
<td></td>
</tr>
<tr>
<td>15 – Does the applicant explain its current mosquito control program and how mosquito control grant monies will be used to enhance current components and/or establish new components for its mosquito control program?</td>
<td>□ Yes □ No</td>
<td></td>
</tr>
<tr>
<td>15 – Does the applicant clearly state the details of each proposed mosquito control activity and the costs associated with each proposed activity?</td>
<td>□ Yes □ No</td>
<td></td>
</tr>
</tbody>
</table>

## Collaboration [20 points total]

<table>
<thead>
<tr>
<th>POINTS:</th>
<th>Yes</th>
<th>No</th>
</tr>
</thead>
<tbody>
<tr>
<td>20 – Does the applicant propose a collaborative effort that clearly explains the roles and responsibilities of each partner participating in the mosquito control program?</td>
<td>□ Yes □ No</td>
<td></td>
</tr>
<tr>
<td>• Does the applicant explain how each partner will benefit from the collaboration in the Executive Summary?</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Applicant must provide all partner information in Table E</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Entity other than a local health department must attach a letter of support and obtain a sponsorship from a local health department</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>