

**BY ORDER OF THE COMMANDER
436TH AIRLIFT WING**

**DOVER AIR FORCE BASE
INSTRUCTION 32-7001**



13 NOVEMBER 2012

Civil Engineering

MOSQUITO CONTROL PROGRAM

COMPLIANCE WITH THIS PUBLICATION IS MANDATORY

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OPR: 436 CES/CEOIE

Certified by: 436 CES/CC
(Lt Col Charles Kelm)

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This instruction supplements Air Force Policy Directive 32-70, *Environmental Quality*. It establishes responsibilities and procedures for conducting the mosquito control program at Dover Air Force Base. It applies to all personnel on or attached to Dover Air Force Base. Ensure that all records created as a result of processes prescribed in this publication are maintained in accordance with Air Force Manual (AFMAN) 33-363, *Management of Records*, and disposed of in accordance with (IAW) Air Force Records Information Management System (AFRIMS) Records Disposition Schedule (RDS) located at <https://www.my.af.mil/afirms/afirms/afirms/rims.cfm>. Refer recommended changes and questions about this publication to the Office of Primary Responsibility (OPR) using the AF Form 847, *Recommendation for Change of Publication*; route AF 847s from the field through the appropriate functional chain of command.

SUMMARY OF CHANGES

This document has been revised and must be completely reviewed. Major changes include: added references in attachment 1 of this publication, changed office symbols of Pest Management, Public Health, Bioenvironmental, and Weather, added subparagraph 2.3.6.1 and 3.5, clarified chemical types that are used, added NPDES standards, and changed verbiage in subparagraph 3.1 and 3.2.

1. GENERAL:

1.1. The mosquito control program requires the cooperation and combined efforts of the Bioenvironmental Engineer (436 AMDS/SGPB), Public Health (436 AMDS/SGPM), and Pest Management Shop (436 CES/ CEOIE). Coordination and concurrence with federal and state agencies are obtained before programs are initiated.

2. RESPONSIBILITIES:

2.1. Bioenvironmental Engineer:

2.1.1. Ensures proper chemicals, application procedures and protective equipment are adequate for the operation.

2.1.2. Supervises cleanup and disposal in a spill or mishap.

2.1.3. Provides technical information to the BCE on the safe storage and use of pesticides.

2.1.4. Monitors the acquisition, storage, and use of pesticides by civil engineering and other base organizations. Monitors the storage and use of pesticides by contractors.

2.2. Public Health:

2.2.1. Identifies breeding areas in conjunction with the 436 CES/CEOIE.

2.2.2. Traps and assesses number and types of mosquitoes. Traps will be operational and in place no later than 15 April and continue until 30 September of each year or until 3 consecutive days below 50 degrees Fahrenheit.

2.2.2.1. Provides trap types and locations to 436 CES/ CEOIE.

2.2.2.2. Provides weekly trap counts to 436 CES/ CEOIE.

2.2.2.3. Annually, Public Health will plan for and procure required equipment and supplies for the traps to ensure an effective program begins by 15 April.

2.2.3. Identifies the need for aerial spraying IAW Public Health's pre-determined thresholds and initiates a spray request through Operations Flight (436 CES/CEO) IAW AFI 32-1074, *Aerial Application of Pesticides*.

2.2.4. Maintains liaison with state mosquito control personnel.

2.3. Civil Engineer Squadron:

2.3.1. Aerial Spraying: 436 CES/CEO will prepare a formal request for aerial spraying operations IAW AFI 32-1074 *Aerial Application of Pesticides* from Headquarters, 302d Tactical Airlift (AFRES).

2.3.1.1. 436 CES/CEO will notify Airfield Management (436 OSS/OSAA), the Weather Flight (436 OSS/OSW), and the Public Affairs Office (436 AW/PA) when aircraft is scheduled to arrive.

2.3.1.2. Supplies sufficient insecticide for each flight.

2.3.1.3. Delivers and helps load chemicals.

- 2.3.1.4. Returns empty drums to the Pest Management Shop.
- 2.3.2. Annually, 436 CES/ CEOIE will coordinate the mosquito control program with, and obtain concurrence of, federal and state agencies.
- 2.3.3. 436 CES/CEOIE will conduct larvaciding and fogging operations base wide in accordance with paragraph 3 below with the exception of contracted government housing areas.
- 2.3.4. Before initiating fogging, trap counts must exceed 100 female mosquitoes in any trap per week as reported by 436 AMDS/SGPM.
 - 2.3.4.1. 436 CES/CEOIE will notify 436 AMDS/SGPM in writing of the insecticide to be used, application rate, and proposed fogging routes.
- 2.3.5. Annually, 436 CES/CEOIE will plan for and procure required equipment and pesticides to ensure an effective program begins by 1 April.
- 2.3.6. 436 CES/CEV will ensure environmental compliance with all applicable laws and regulations IAW this program.
 - 2.3.6.1. 436 CES/CEV will submit the Notice of Intent for the National Pollutant Discharge Elimination System (NPDES) permits annually to the EPA.

3. PROCEDURES:

- 3.1. Larvaciding: Begins on or about 15 April and continues through September as required. Larvacide materials used are Altosid XR Briquettes, Altosid Pellets, Summit Mosquito Dunks or Vectolex WSP granule packets. Areas to be larvicided will be determined by conducting larvacide dip surveillance conducted by Public Health in conjunction with 436 CES/CEOIE.
- 3.2. ULV Fogging: Weather and wind permitting, control measures will be implemented as directed by the 436 AMDS/SGPM guidelines. 436 AMDS/SGPM will notify 436 CES/CEOIE in writing when threshold numbers are exceeded to initiate fogging operations and also when trap numbers indicate the need to stop. Adult mosquitoes will be treated with Scourge synthetic pyrethroid or Anvil 10+10 from an ultra low volume fogging machine.
- 3.3. If for any reason fogging or larvaciding operations are to be discontinued prior to the end of September, 436 CES/ CEOIE must coordinate in writing with 436 AMDS/SGPM to ensure trap counts are monitored for any increase in numbers.
- 3.4. 436 CES/ CEOIE must coordinate any change in larvacide or fogging chemicals or method of their application in writing with 436 AMDS/SGPB/SGPM , to ensure proper occupational health exams are being administered to pest management personnel.
- 3.5. 436 CES/CEOIE must ensure the NPDES permits are valid before applying any pesticide near, in, or around water or water drainage areas.

MARK D. CAMERER , Colonel, USAF
Commander, 436th Airlift Wing

Attachment 1**GLOSSARY OF REFERENCES AND SUPPORTING INFORMATION*****References***

AFI 32-7061, *The Environmental Impact Analysis Process*, 12 March 2003

AFI 32-1053, *Pest Management Program*, 23 June 2009

AFI 32-1074, *Aerial Application of Pesticides*, 27 August 2009

AFMAN 33-363, *Management of Records*, 01 March 2008

AFI-48-102, *Medical Entomology Program*, 01 July 2004

Prescribed Forms

There are no Prescribed Forms in this publication.

Adopted Forms

AF Form 847, *Recommendation for Change of Publication*, 22 September 2009

Abbreviations and Acronyms

AF—Air Force

AFB—Air Force Base

AMC—Air Mobility Command

AMCI—Air Mobility Command Instruction

EPA—Environmental Protection Agency

IAW—In Accordance With

IMT—Information Management Tool

NPDES—National Pollutant Discharge Elimination System

OPR—Office of Primary Responsibility

RDS—Records Disposition Schedule