

TOWN OF BERTHOUD
RESOLUTION NO. 20
(Series 2023)

**A RESOLUTION OF THE TOWN OF BERTHOUD, COLORADO
ESTABLISHING AN INTEGRATED VECTOR MANAGEMENT PROGRAM**

WHEREAS, the Town of Berthoud is surrounded by agricultural lands and wetland areas which are prone to develop substantial mosquito populations in certain years and seasons; and

WHEREAS, vector borne diseases from mosquitoes are a significant public health concern;

WHEREAS, environmental and ecological damage from excessive or unnecessary pesticide application is also a significant concern; and

WHEREAS, the Town of Berthoud regularly conducts evaluations of the intensity and types of mosquito infestations, including a determination of populations likely to carry West Nile virus and other diseases; and

WHEREAS, the Larimer County Department of Public Health provides recommendations as to whether active spraying is warranted in order to limit the transmission of vector borne illnesses;

**NOW THEREFORE BE IT RESOLVED BY THE BOARD OF TRUSTEES OF
THE TOWN OF BERTHOUD, COLORADO AS FOLLOWS:**

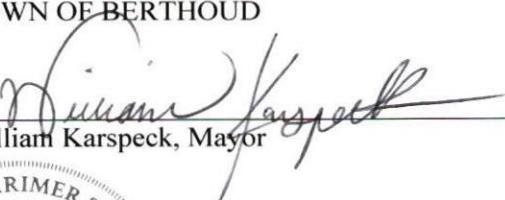
1. The attached 'Integrated Vector Management Program' is hereby adopted as the official policy of the Town for implementing a variety of vector control measures, including determining when adult mosquito control shall be implemented as a matter of public health and safety;
2. Town staff shall be responsible to promote the communications standards set out in the attached Policy; and
3. Town staff shall implement active mosquito control measures (spraying) only as set forth in the attached 'Integrated Vector Control Program'.

PASSED, ADOPTED AND APPROVED THIS 26th DAY OF SEPTEMBER, 2023.

ATTEST:

Christian Samora, Town Clerk



BY: 
William Karspeck, Mayor

Town of Berthoud Integrated Vector Management Program

1. In order to effectively combat West Nile virus through the season, the Town has contracted to conduct a mosquito surveillance program and sets traps weekly within the Town of Berthoud to monitor changes in the mosquito population over time and to evaluate effective management of its larvicide program. The Town of Berthoud is also conducting a comprehensive larvae control program to kill mosquito larvae before they emerge from breeding areas. The contract is to apply a biological larvicide to breeding sites identified by the Town, members of the public, staff members of the contractor, and others. The larvicide used by the Town's contractor is a natural non-toxic biological product.
2. Out of an abundance of caution, and to limit potential impacts to the environment, the Town will not apply mosquito adulticides to control the abundance of mosquitos for nuisance reasons.
3. The Vector Index (VI), which measures the level of West Nile Virus (WNV) infected mosquitoes in an area, is accepted as the best available predictor of human risk from that disease. The VI is a number calculated by combining measures of the abundance of Culex mosquitoes (the species which carries WNV) and the rate of infection in those mosquitoes. Published investigations of large WNV outbreaks have shown that once a vector index is over 0.5, the risk of human infection increases substantially. A VI of 1.0 indicates that human cases of WNV are almost certain to occur. The Larimer County Department of Health has adopted the 0.5 VI as the threshold indicator of a health risk to the community.
4. At any time that any mosquito-borne disease becomes a Real or Imminent Public Health Threat, adult mosquito control measures will become a priority issue for the Town of Berthoud. A Real or Imminent Public Health threat will be established in Berthoud when a Vector Index (VI) of 1.0 or higher is calculated for two consecutive weeks, from the data obtained as an average of the Town's trap network. Such data shall be published on a weekly basis on the Town website.
5. Upon notice of a Real or Imminent Public Health Threat, adult control measures will be implemented town-wide for one night, on or after 10:00 PM (weather permitting) and terminating as soon as possible but no later than 4:00 AM. Spray exclusion zones will not be recognized. Such adult control measures shall occur at the direction of the Town Administrator without further Board action. A notice to residents of the intended application date will be made via the Town website, the Vector Disease Control International (VDCI) website, press release, LETA notification, and social media updates. Said notice shall be provided a minimum of 48 hours prior to the commencement of any adult mosquito control measures. Community members may also sign up to receive email alerts from VDCI and the Town.
6. The Town will maintain a webpage on the Town website which includes information about the insecticides to be used, Safety Data Sheets, and EPA Registrations. Recommendations for protecting the health of people, pets, and the environment during the adulticide application will also be included on the webpage. Contact information will be provided on the same webpage for residents to report suspected misapplications of mosquito adulticides. These emails will be compiled following an insecticide application and will be added to a subsequent Town Board meeting packet for review.