

**TOWN OF BERTHOUD  
RESOLUTION NO. 6-17b**

**A RESOLUTION OF THE TOWN OF BERTHOUD, COLORADO  
ESTABLISHING A POLICY FOR MOSQUITO CONTROL SPRAYING**

**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, as is environmental and ecological damage from excessive or unnecessary pesticide application; and

**WHEREAS**, the Larimer County Health Department 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 provides recommendations as to whether active spraying is warranted; and

**WHEREAS**, the Town of Berthoud will now maintain its own traps and evaluation data in addition to the data from the county; and

**WHEREAS**, Town staff has requested a fixed policy to determine when to rely on larval and bacterial control programs regularly employed by the Town and when to engage a contractor for active spraying

**WHEREAS**, The Town of Berthoud is committed to continuing our motto as "The Garden Spot of Colorado,"

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

1. The attached 'Emergency Adult Mosquito Control Policy Statement' is hereby adopted as the official policy of the Town for 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 'Emergency Adult Mosquito Control Policy Statement'.

PASSED, ADOPTED AND APPROVED THIS 13<sup>th</sup> day of June, 2017.

TOWN OF BERTHOUD

BY:

  
Steve Mulvihill, Mayor

ATTEST:

  
Acting Town Clerk

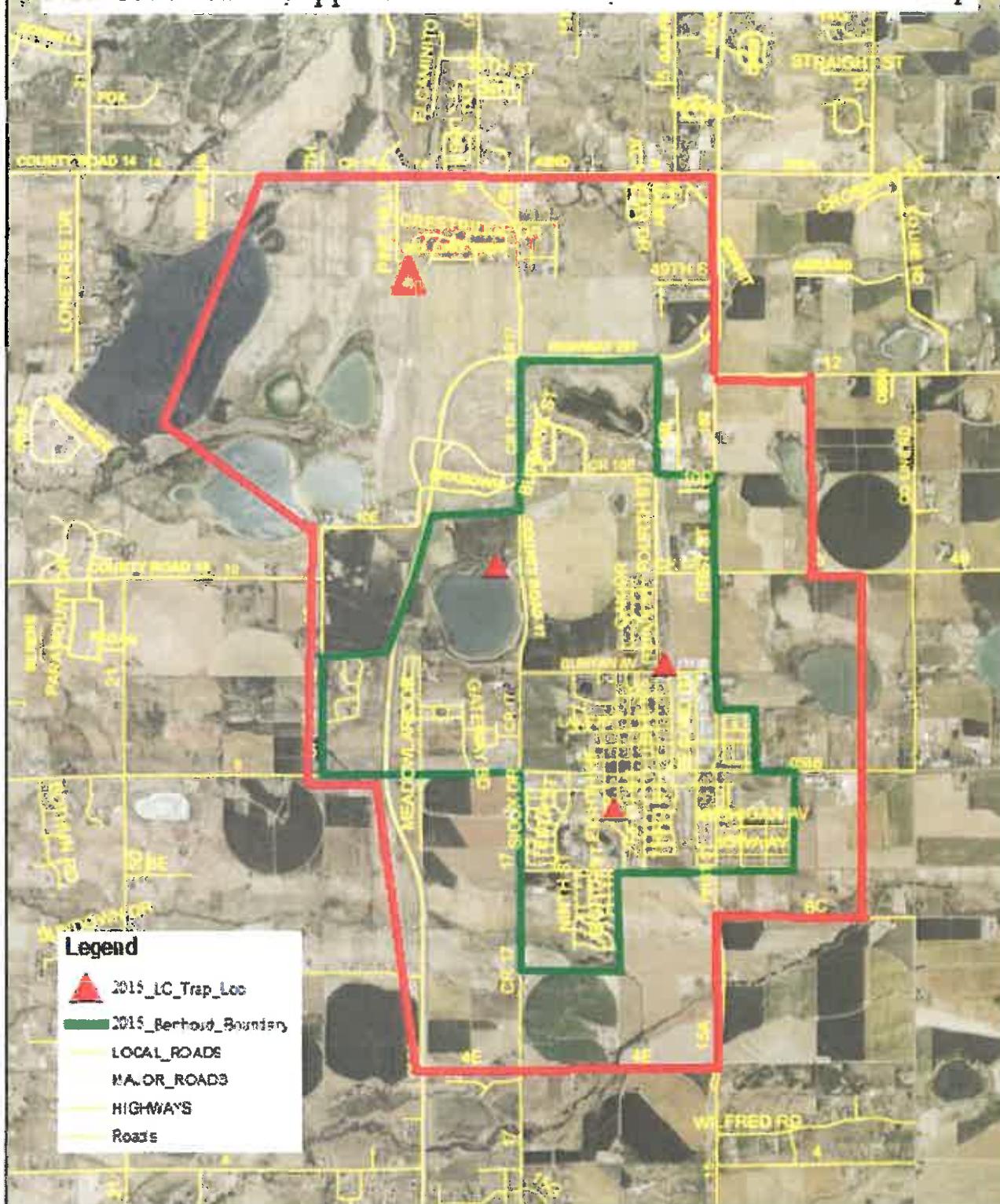


## EMERGENCY ADULT MOSQUITO CONTROL POLICY STATEMENT

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 per the attached map. The larvicide is a natural non-toxic biological product that affects only mosquitoes and is not harmful to fish and animals).
2. At any time that any mosquito-borne disease becomes a real or imminent public health threat, adult mosquito control measures for adult insects will become a priority issue for the Town of Berthoud. A real or imminent public health threat will be established by a Vector Index (VI) of .5 or higher which is calculated for the Town from data obtained as an average of the Town's trap network, per the attached map. Such data shall be published on a weekly basis on the Town web site.
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. The Larimer County Department of Health has adopted the 0.5 VI as the threshold indicator of a health risk to the community.
4. Upon notice of a Vector Index of .5 or higher, as an average of the Town trap network, adult control measures will be implemented town-wide on two consecutive evenings on or after 10 PM (weather permitting) and spray exclusion zones will not be recognized. Such adult control measures shall occur at the direction of the Town staff without further Board action. Notice to residents of the intended application date will be made via the Town website, VDCI website, press release, and social media updates. Community members may also sign up to receive email alerts from VDCI. The Town of Berthoud will give a minimum of 48 hours' notice through these channels before commencing spray operations. The Town of Berthoud will implement all recognized means to reduce the adult mosquito population within the area where disease transmission to humans is a concern. In 2017, the Town has contracted with Colorado State University to test Town traps and provide a weekly data report which will include the Vector Index for the Town. The Town will generally receive those reports on a Monday, meaning that adult control events may occur as early as Wednesday or Thursday of the same week.

## Expansion Option 2

New Subdivisions, approx 1/2 miles buffer, additional surveillance trap



## Berthoud Mosquito Control Program

0 0.35 0.7 1.4 Miles



This map is the property of  
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