

# 2021 Annual Report

## City of Fort Collins

### Mosquito Control Program



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**City of Fort Collins  
Mosquito Management Operations**

**Annual Report For 2021**

**Table of Contents**

	<b>Page</b>
<b>PROGRAM OBJECTIVES</b>	<b>3</b>
<b>VDCI'S COMMITMENT</b>	<b>3</b>
<b>2020 SEASON PERSPECTIVE</b> CLIMATE COMPARISON DATA	<b>4</b>
<b>WEST NILE VIRUS SEASON</b> WNV ACTIVITY BY STATE (CDC 2021 HUMAN CASE MAP) NEUROINVASIVE INCIDENCE BY STATE (CDC 2021 HUMAN CASE MAP) COLORADO WNV DATA (CDPHE 2021 HUMAN CASE REPORTS)	<b>5</b>
<b>LARVAL MOSQUITO CONTROL</b> LARVAL SITE INSPECTIONS & TREATMENTS IN FORT COLLINS LARVAL ACREAGE TREATMENTS IN FORT COLLINS LARVICIDE PRODUCT APPLICATION BY TYPE	<b>8</b>
<b>VDCI SURVEILLANCE LABORATORY</b> CDC SURVEILLANCE LIGHT TRAP DATA ADULT MOSQUITO LIGHT TRAP GENUS SUMMARY 2021 CSU WEST NILE VIRUS MOSQUITO SAMPLING RESULTS – LARIMER COUNTY	<b>9</b>
<b>ADULT MOSQUITO CONTROL</b> SEASON DETAILS ADULT MOSQUITO CONTROL APPLICATION REPORT FOR FORT COLLINS 2021	<b>12</b>
<b>PUBLIC RELATIONS AND EDUCATION</b> MOSQUITO LINE CALLS FOR FORT COLLINS	<b>13</b>
<b>APPENDIX</b> 1. FORT COLLINS INDIVIDUAL LIGHT TRAP SUMMARIES 2020 2. LARIMER COUNTY ADULT SAMPLE POOL POSITIVE RESULTS AND LOCATIONS 3. GROUND ADULT MOSQUITO CONTROL APPLICATION DATA 2020 4. SCHEDULED EMERGENCY APPLICATION MAPS	<b>15</b>

## *Program Objectives*

Vector Disease Control International, LLC (VDCI) completed its 18<sup>th</sup> year of cost-effective Integrated Mosquito Management (IMM) for the City of Fort Collins in 2021. The primary objective of Fort Collins' IMM Program is to monitor and reduce mosquito populations through the use of specific, environmentally sound, control techniques in order to protect its residents from the threat of mosquito-borne diseases. VDCI prioritizes the detection and elimination of larval mosquitoes in aquatic habitats, in conjunction with the monitoring of adult mosquito populations through routine surveillance, in order to assess West Nile virus vector species abundance in the area.

Open communication is maintained by VDCI between the HOA Residents, Property Management Companies, the Weld and Larimer County Departments of Health & Environment and surrounding municipalities to ensure that the highest level of mosquito control and epizootic response is achieved. This diligent and cooperative communication is important to the Fort Collins mosquito management program and provides significant benefit to public health throughout the entire area.

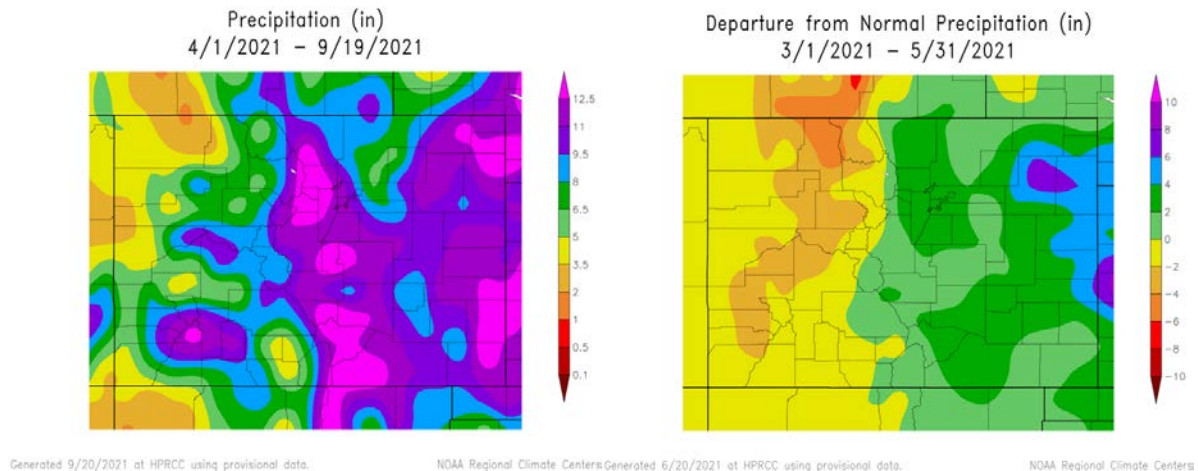
## *VDCI's Commitment*

Vector Disease Control International is a company built on the foundations of public health, ethics, professionalism, and technical expertise. VDCI is committed to providing our customers with scientifically based, environmentally sensitive and technologically advanced Integrated Mosquito Management (IMM) programs of the highest quality. All of our employees are committed to excellence in vector control and public health and strive to improve the quality of human life in communities through public education and the control of mosquitoes and the diseases they can transmit. VDCI currently has programs across the state of Colorado, providing services for towns, cities, counties, homeowners associations, and encephalitis surveillance monitoring programs for county health departments.

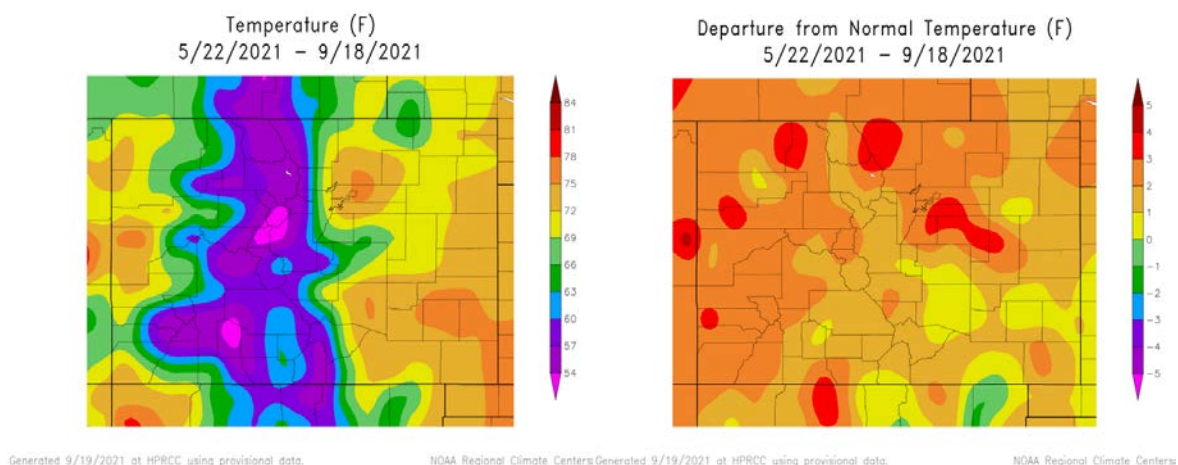
Vector Disease Control International, as the contractor for Fort Collins, will continue to use proven scientific Integrated Mosquito Management techniques to survey and control local mosquito populations using biorational larval controls and limited low-toxicity insecticide applications. All of the methods and materials used have been reviewed and registered by the US Environmental Protection Agency, the Centers for Disease Control, the Colorado Department of Agriculture and the American Mosquito Control Association.

## 2021 Season Perspective

At VDCI we have come to expect each Colorado summer to present a unique set of temperature, precipitation, irrigation, and human interactions that combine to create new and different challenges in both mosquito control and mosquito-borne disease proliferation. Precipitation in Northern Colorado was well above average during the spring of 2021, with areas in Larimer and Weld counties receiving precipitation upwards of 4" above average. Due to the excess of precipitation, Northern Colorado experienced a significantly high abundance season for adult mosquitoes that continued on for much of the summer.



Temperatures throughout Northern Colorado seem to increase every summer and 2021 was no different. The 2021 season was hot, with Larimer and Weld counties consistently seeing temperatures above 90 degrees. However, once September came, the nightly lows began to dip into the 50s and even 40s, which greatly reduces both the mosquito life cycle and adult mosquito activity. However, some overwintering species, such as those in the genera *Culex* can and do move indoors in anticipation for the winter.



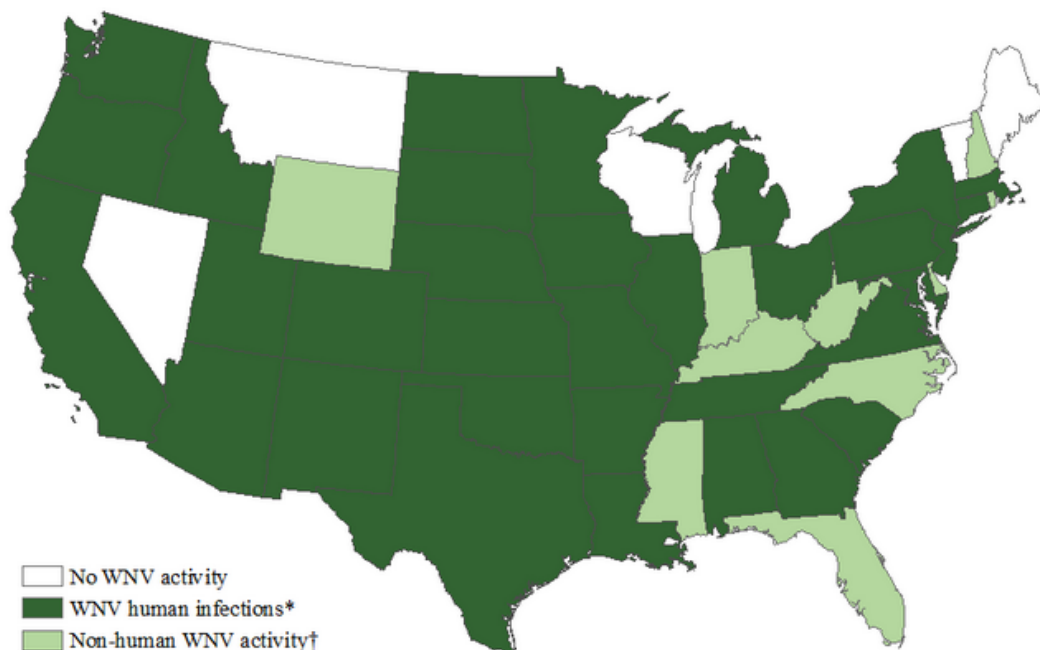


## West Nile Virus Season

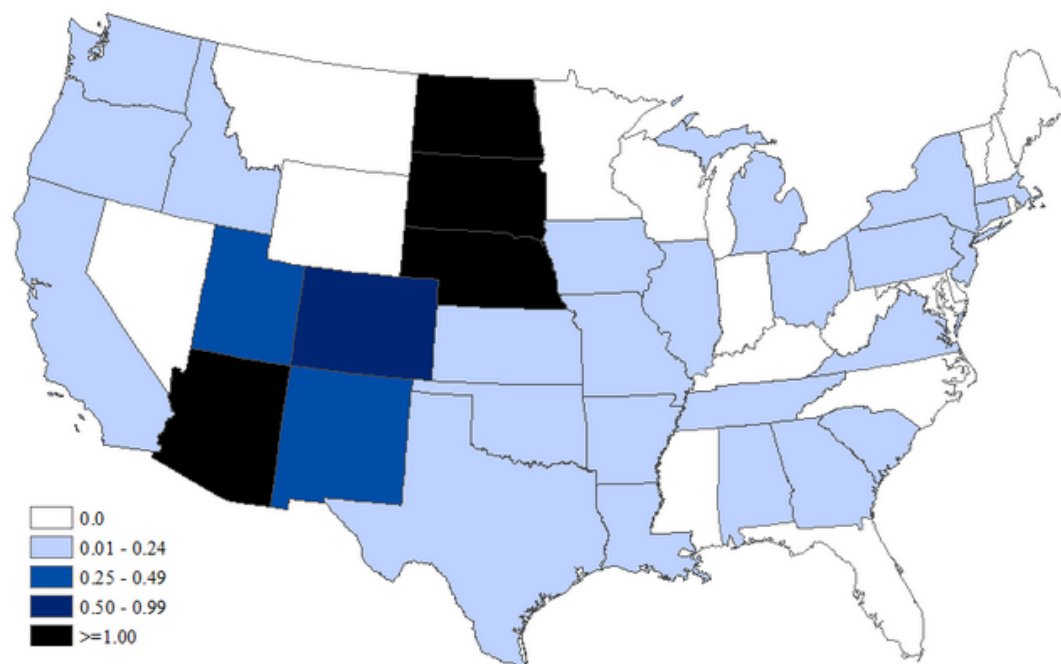
Since the introduction of West Nile virus to the United States in 1999, the virus has made a complete westward expansion to the West Coast. Starting in the Northeastern parts of the United States, the virus steadily spread through the South, the Midwest, the Rocky Mountain region, and to the Western States. This extensive distribution is due to the ability of WNV to establish and persist in the wide variety of ecosystems present across the country. WNV has been detected in 65 different mosquito species in the U.S., though it appears that only a few *Culex* species drive epizootic and epidemic transmission (WNV Guidelines, CDC 2013). Although West Nile virus has been endemic to the United States since 1999, researchers continue to seek an understanding for some of the factors which contribute to region specific spikes in vector abundance and human risk. We still do not understand why some humans develop West Nile fever while other infections develop into more serious West Nile encephalitis or West Nile meningitis cases. Additionally, physicians and researchers continue to seek answers to the variable recovery times and occurrence of deaths that result with some infections. WNV has expanded to the point that it can now be found in all 48 contiguous states and since its introduction has produced two additional, large nationwide epidemics in 2003 and 2012 (WNV Guidelines, CDC 2013).

As of September 21<sup>st</sup>, 2021, a total of 42 states and the District of Columbia have reported West Nile virus infections in people, birds, or mosquitoes. Overall, 479 cases of West Nile virus disease in people have been reported to CDC. Of these, 315 (66%) were classified as neuroinvasive disease (such as meningitis or encephalitis) and 164 (34%) were classified as non-neuroinvasive disease.

West Nile Virus Activity by State – United States, 2021 (as of September 21, 2021)



## West Nile Virus Neuroinvasive Disease Incidence by State – United States, 2021 (as of September 21, 2021)



### Colorado 2021

As of September 29<sup>th</sup>, 2021 The Colorado Department of Health and Environment reports a total of 116 human cases of West Nile virus infection from the state of Colorado. In Northern Colorado, 18 human cases are reported from Larimer County, and 16 from Weld County. While we have passed the historical peak of WNV risk these numbers are expected to rise as there is often a delay in onset of symptoms, diagnosis and reporting. Please note that the additional cases reported by CDPHE will also be reported to the Centers for Disease Control.

Fifteen counties across the state of Colorado have reported human West Nile virus infection. These include Adams, Arapahoe, Boulder, Broomfield, Delta, Denver, Douglas, El Paso, Jefferson, Kit Carson, Larimer, Montrose, Pueblo, Weld, and Yuma.

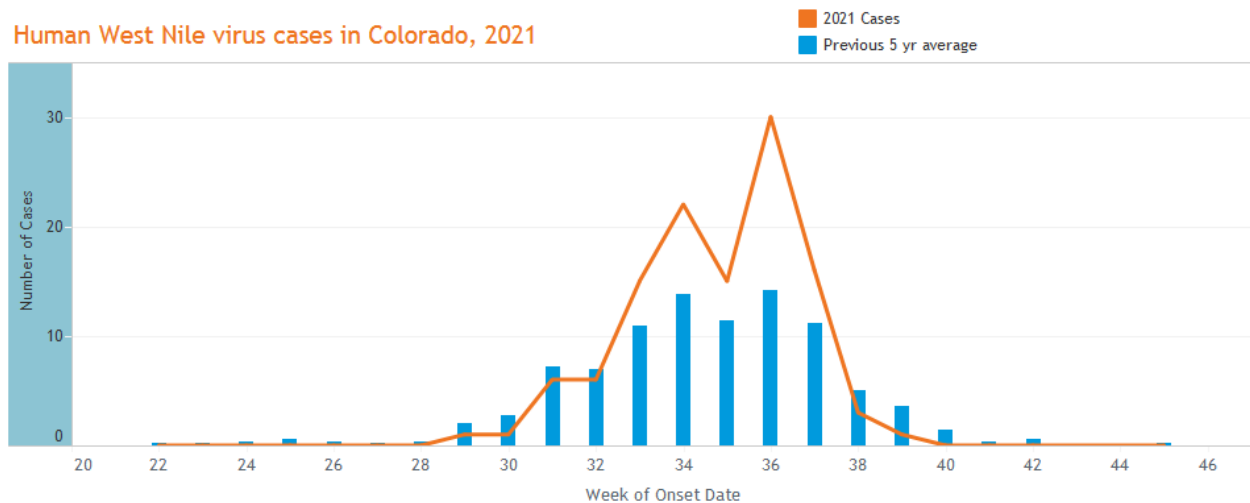
Human Cases: 116

Deaths: 5

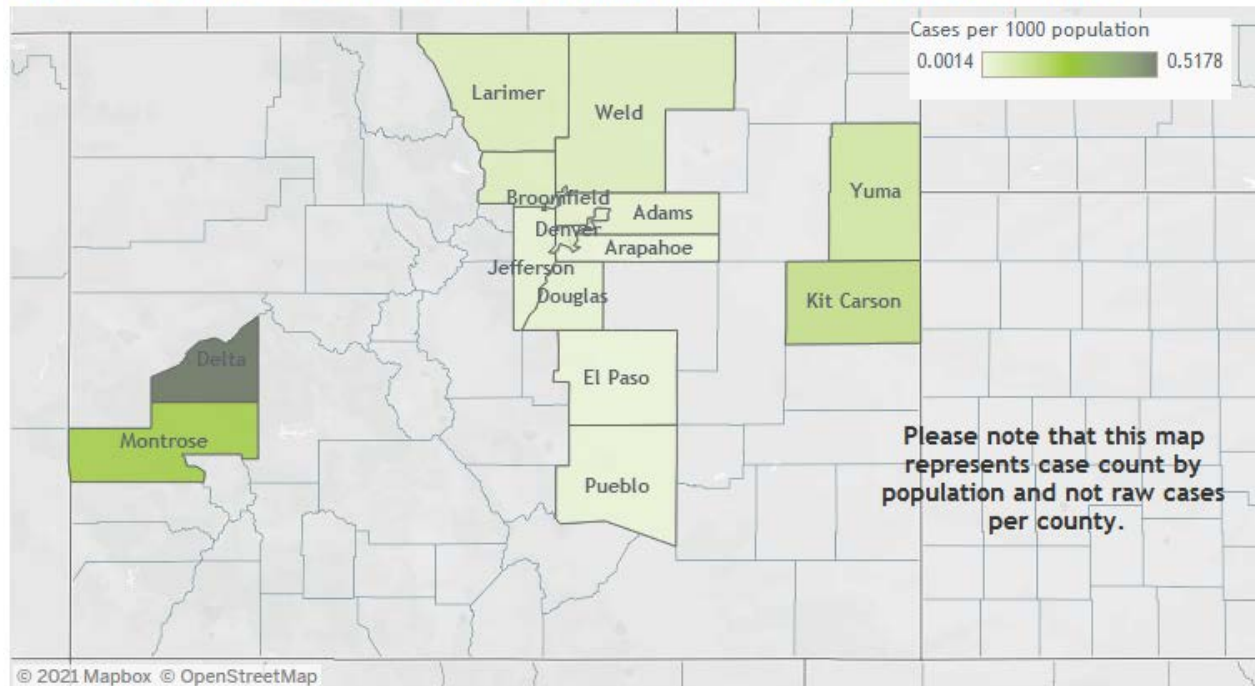
Neuroinvasive Cases: 66

Hospitalized Cases: 72

### Human West Nile virus cases in Colorado, 2021



### Human West Nile virus cases per 1000 population by county of residence, 2021



## Larval Mosquito Control

Larval mosquito control is the foundation of the City of Fort Collins' Mosquito Control program and can be an extremely effective way to manage mosquitoes, thereby reducing the number of potential disease vectors and annoyances associated with biting adults. Years of research and practical experience have shown that the most effective way to control mosquito populations is through an aggressive Integrated Mosquito Management (IMM) approach. This approach aims at using a variety of concepts, tools, and products to reduce a pest population to a tolerable level.

Pre-season larval control work involved ground truthing GIS maps and remapping areas where new development or flooding had altered the landscape. VDCI began larval site inspections in many areas mid-April. Hiring of seasonal field technicians began in March and continued into May. VDCI's Annual Field Technician Classroom Training Day took place on May 17<sup>th</sup> with special online courses this year due to Covid-19. Field training by VDCI management and veteran employees lasted through May and full-time field activities were in full force by early June.

In 2021, Vector Disease Control field technicians performed 6,626 larval site inspections with Fort Collins, of which 4,484 (71.6%) were wet upon inspection, 2,195 (49.0% of wet sites) were producing mosquito larvae. To prevent these larvae from emerging as adult mosquitoes, VDCI applied 4,944.6 lbs. of VectoBac (Bti) and 17.4 gal of BVA 2 mineral oil to 1,191.2 acres of land.

During 2021, VDCI technicians performed site inspections at 108 residences as part of our backyard inspection program. VDCI also performed treatments at approximately 560 stormdrains. Drains that were wet or had the potential to hold water were treated with long term larvicide products including Altosid pellets, briquettes, and VectoLex WSP (Bsph).



Larval mosquito control can be achieved in several ways including biological, biochemical, chemical, and mechanical means. No single larvicide product will work effectively in every habitat where mosquito larvae are found, so a variety of products and methods should be employed. Additionally, although there are a variety of methods for reducing larval populations, some may have negative consequences that outweigh their benefits. Mechanical or physical habitat modification is a technique which VDCI uses on relatively small scale projects, as the area to be modified must be carefully reviewed.

VDCI's favored method of larval mosquito control is through the use of bacterial bio-rational products. The main product used by VDCI is a variety of bacteria (*Bacillus thuringiensis var. israeliensis*). *Bti*, as it is known, has become the cornerstone of mosquito control programs



throughout the world. The benefits include its efficacy and lack of environmental impacts. When used in accordance with its label, successful control of mosquito larvae can be achieved without impact to non-target species such as other aquatic invertebrates, birds, mammals, fish, amphibians, reptiles, or humans. A broad label allows for the use of the product in the majority of the habitats throughout the service area. Another bacterial product closely related to *Bti* is *Bacillus sphaericus* (*Bs*). *BS* provides similar benefits to *Bti* while also providing residual control of certain species of mosquitoes. It is used specifically in difficult to treat areas where *Culex* are the predominant species due to its limitations and high cost.

Other larval control products include the insect growth regulator methoprene (Altosid), and light mineral oils (BVA 2 larvicide oil). Methoprene is a synthetic version of a juvenile growth hormone in larval mosquitoes. The hormone prevents the normal development of larval mosquitoes into pupae and adults, eventually causing death. VDCI limits the use of chemical larvicides to areas with little biodiversity, such as road side ditches, or areas that chronically produce high mosquito populations. They are only used after a thorough assessment has been made of any habitat where their use is being considered. Mineral oil is the only product effective in controlling mosquito pupae and therefore is an essential tool when pupae are present.

## *VDCI Surveillance Laboratory*

Information about mosquito abundance and species diversity is essential to integrated program. Vector Disease Control International utilizes two kinds of traps to monitor mosquito







populations. The most commonly used is the CDC light trap which uses carbon-dioxide from dry ice as bait to attract female mosquitoes seeking a blood meal from a breathing animal. Once attracted by the CO<sub>2</sub>, the mosquitoes are lured by a small light to a fan that pulls them into a net for collection. The second type of trap VDCI uses is called a gravid trap. Gravid traps use a tub of highly-organic water as bait to attract female mosquitoes that are looking for a place to lay their eggs. A fan placed close to the water surface forces mosquitoes that come to the water into a collection net. Once back in the laboratory, the contents of the trap nets are counted and speciated by trained technicians.

In 2021, Vector Disease Control International monitored a statewide network of hundreds of weekly trap sites, collecting adult mosquitoes that were counted and identified to species by the VDCI Surveillance Laboratories. While individual traps provide only limited information, trap data is interpreted in the context of historical records for the same trap site, going back in time more than a decade. Individual traps are also compared to other traps from around

the region that were set on the same night and therefore exposed to similar weather conditions. Technicians working in the Surveillance Laboratories at Vector Disease Control International are trained to provide accurate species-level identification of both larval and adult mosquitoes.

Additionally, the VDCI Surveillance Laboratory conducts an intensive larval identification program with larval mosquito samples collected by I&L technicians prior to larviciding being identified to species. This information is now invaluable in targeting mosquito control efforts as we gain a greater understanding of the habitat types preferred by Colorado mosquito species and the seasonality of these habitats as sites for mosquito development.

Specimens and data collected from these traps and larval identification are used in:

-  Determining the effect of larval control efforts. Each mosquito species prefers specific kinds of habitats for larval development. If a trap includes large numbers, it could indicate the presence of an unknown larval habitat and, based on the species identification and known habitat preference for that species, direct field technicians as to possible sources of the mosquitoes collected.
-  Determining larval and adult mosquito species. This helps to illustrate the threat of mosquito-borne disease amplification and transmission because different mosquito species can vector different diseases to people and animals.
-  Determining where adult control efforts were necessary. While mosquito eradication is impossible, significant population reduction is achievable. In places where larval control is insufficient, such as neighborhoods where adult mosquitoes have migrated in from outside of the control area, it may be necessary to use adulticide methods, such as ULV truck fogging or barrier sprays of harborage areas. Trap counts that exceed an acceptable threshold for an area may trigger adult control measures.
-  Surveillance for Mosquito-borne Disease. Historically, VDCI efforts were targeted primarily at controlling mosquito nuisance problems with limited disease surveillance. However, since the arrival of the West Nile virus in Colorado in August of 2002, the paradigm has shifted toward disease prevention and control. Accurate species identification of the mosquitoes in the traps is important when monitoring species population trends. It also is necessary for evaluating whether a population spike represents an actual increase in disease transmission potential or only an increased nuisance level.

## **SURVEILLANCE LIGHT TRAP DATA**

In 2021, there were 637 CDC light surveillance traps set within the City of Fort Collins, which collected a total of 64,438 mosquitoes. This year there was an average of 101.2 mosquitoes caught per trap per night and an average 56.5 *Culex* mosquitoes per trap per night. The composition of mosquitoes collected was 55.9% (36,005) *Culex spp.*, 40.7% (26,207) *Aedes/Ochlerotatus spp.*, and 1.2% (982) *Culiseta spp.*

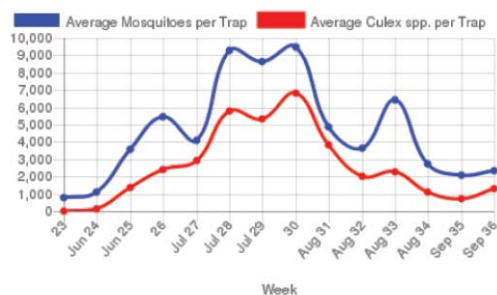
## 2021 Fort Collins Trap Composite Data

Total number of trap/nights set: 637  
 Total number of mosquitoes collected: 64,438.0  
 Average mosquitoes per trap/night: 101.2  
 Average Culex per trap/night: 56.5

### Species collected and abundance:

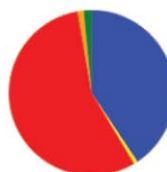
<i>Aedes cinereus</i>	195.0	0.3%
<i>Aedes dorsalis</i>	1,828.0	2.8%
<i>Aedes fitchii</i>	9.0	0.0%
<i>Aedes hendersoni</i>	16.0	0.0%
<i>Aedes increpitus</i>	2,975.0	4.6%
<i>Aedes melanimon</i>	1,072.0	1.7%
<i>Aedes nigromaculis</i>	5.0	0.0%
<i>Aedes trivittatus</i>	26.0	0.0%
<i>Aedes vexans</i>	20,081.0	31.2%
<i>Anopheles earlei</i>	4.0	0.0%
<i>Anopheles freeborni</i>	473.0	0.7%
<i>Coquillettidia perturbans</i>	982.0	1.5%
<i>Culex pipiens</i>	14,651.0	22.7%
<i>Culex tarsalis</i>	21,354.0	33.1%
<i>Culiseta inornata</i>	766.0	1.2%
<i>Culiseta spp.</i>	1.0	0.0%

### Seasonality



### Genus Proportions:

Genus	Number	Percent of Total
<i>Aedes/Ochlerotatus</i>	26,207	40.7%
<i>Anopheles</i>	477	0.7%
<i>Culex</i>	36,005	55.9%
<i>Culiseta</i>	767	1.2%
Other	982	1.5%



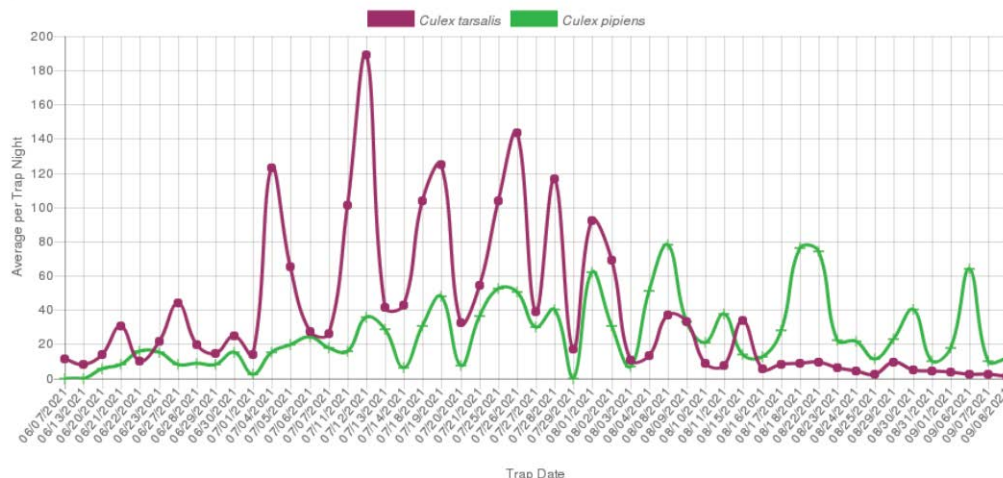
■ *Aedes-Oc*  
 ■ *Anopheles*  
 ■ *Culex*  
 ■ *Culiseta*  
 ■ Other



## Adult Mosquito Surveillance Summary

Start Date: 05/01/2021 End Date: 09/20/2021

Fort Collins



2021 Annual Report of Mosquito Management Operations  
 Vector Disease Control International

## **CSU WEST NILE VIRUS MOSQUITO SAMPLE TESTING RESULTS - LARIMER COUNTY**

Many local health departments have moved towards mosquito-based surveillance indicators to assess the weekly risk of West Nile transmission and guide response decisions for adult mosquito control applications. The vector index and infection rate is derived by testing the mosquitoes VDCI collects for the presence of West Nile virus. This value is closely monitored by the CDPHE and local health departments to evaluate the risk posed by the vector mosquito population.

As defined in the CDC guidelines for West Nile virus surveillance, prevention and control, the vector index (VI) is an estimate of the number of West Nile virus infected mosquitoes in an area. This number can serve as a human health risk value. An operational value of 0.5, which was derived from the comparison of historical data for human infections, as well as relative abundance and infection in mosquitoes, serves as an indicator of high risk for West Nile virus transmission to humans in the corresponding area. As the value of the vector index increases there is a corresponding risk of human disease and this value can be used to offset epidemics.

As stated on the CDPHE website, the seasonal variation of West Nile virus risk can change throughout a summer and it is best to assume you have some risk for WNV if you have mosquitoes.

As of Sept 20<sup>th</sup>, 2021 Colorado State University's Department of Microbiology, Immunology and Pathology, has tested a total of 1,831 mosquito pools from Larimer County. A total of 122 mosquito pool samples have tested positive for WNV with 9 of those being collected from Berthoud, 15 from Loveland and 98 from the Fort Collins. Testing of these mosquitoes for West Nile virus is paid for by the Town of Berthoud, the City of Fort Collins, and the City of Loveland. It's important to note that the large number of WNV positive sample pools reported from Fort Collins is highly correlated with the fact they test all mosquitoes with the potential for transmitting disease versus just a subset of the population.

### ***ADULT MOSQUITO CONTROL***

The goal of Vector Disease Control International is to provide our customers with the best options for safe, effective, modern mosquito management. The primary emphasis of the Fort Collins Mosquito Management Program is to control mosquitoes in the larval stage, using safe biological control products. VDCI uses EPA and CDC approved adulticides to reduce mosquito populations. During the 2021 season a total of 459.5 miles of roads and access paths within Fort Collins were fogged using Aqua Perm-X UL 3030.

*\*Please see Appendix 2 for Ground Adulticide Application Data*

VDCI was also privately contracted to perform adult mosquito control for Countryside HOA, Greenstone HOA, Lindenwood HOA, Ridgewood Hills HOA, and Willow Springs HOA, during the 2021 season. A total of 61.6 miles within these neighborhoods were sprayed via ground based vehicles with Ultra Low Volume (ULV) AquaKontrol mosquito adulticides to reduce adult mosquito populations.

In response to elevated West Nile virus activity in 2021 the City of Fort Collins and Larimer County Department of Health requested emergency ULV truck-based control efforts within Fort Collins and adjacent areas of Larimer County on August 12<sup>th</sup>, August 15<sup>th</sup>, August 26<sup>th</sup>, August 29<sup>th</sup>, September 9<sup>th</sup>, and September 12<sup>th</sup>. Due to inclement weather, applications for August 26<sup>th</sup> were rescheduled for September 1<sup>st</sup> although this application was ultimately cancelled due to inclement weather.

*\*Please see Appendix 4 for Scheduled Emergency Application Maps*

VDCI uses state of the art technology, calibrated application timing, and least-toxic products to minimize non-target impacts. All adult mosquito control is accomplished using Ultra Low Volume (ULV) fogging equipment and performed after dusk when the majority of mosquito species are most active. This type of equipment produces droplets averaging 12 microns in diameter and allows for a minimal amount of product to be put into the environment. These treatments take place in the evening when mosquitoes are flying in greater numbers and non-target insect activity (for example, day-flying pollinators like bees) is greatly reduced. Using this application technique, the overall goal of minimal environmental impact and effective adult control is achieved in the targeted area.

## ***Public Relations and Education***

VDCI is dedicated to providing strong Public Outreach and Education Programs to residents in all of our communities. Citizen complaints, inquiry, information and satisfaction surveys can aid in evaluating the effectiveness of a program. VDCI constantly looks for ways to better serve the communities we work with and encourages both the citizen and local media involvement in order to increase the effectiveness of our programs. We have clearly demonstrated that commitment and belief by proactively serving Fort Collins (and all of our contracted communities) with numerous innovative programs, activities and services.

Customer service is always a high priority for VDCI. We take pride in training each and every technician so that they have the knowledge to provide residents with the correct answers to their questions. Each field technician spends part of their day responding to resident concerns in their work area. This in-field customer service personalizes the mosquito control program, provides VDCI with local information on mosquito activity and presents a valuable opportunity to educate our residents about mosquito biology and control.



## **MosquitoLine™**

VDCI maintains a toll-free telephone line (877-276-4306) and local line to the Northern Colorado Office (970-278-9977) at no cost to the customer. This service can be utilized to accept calls from the public concerning:

- ✧ Information about mosquito biology and source reduction of mosquito habitats
- ✧ information on program components, operations and monitoring
- ✧ Seasonal West Nile virus activity
- ✧ Personal protection options for mosquito annoyances and West Nile virus risk
- ✧ Reports about mosquitoes and possible larval mosquito habitats
- ✧ Requests to perform larvicide applications and/or opt-out of any adulticide spraying via a shut-off list
- ✧ Request notification when adulticide spraying is planned in their neighborhood
- ✧ Request health and safety information about mosquito control operations and pesticide products used

VDCI has provided Mosquito Hotlines to the residents in communities which we are contracted to also reduce workload by municipal personnel. This enables direct communication and response by mosquito control employees to resident's concerns about West Nile virus and larval site activity and treatment. VDCI maintains a log of calls received and will summarize call activity in monthly and annual reports.

VDCI received 18 phone calls from Fort Collins residents in 2021. VDCI received 6 calls from residents reporting larval mosquito sites in their area. VDCI inspected all of the reported sites and added new sites if found producing mosquito larvae and were not already part of our regular inspection program. VDCI received 12 mosquito annoyance calls from residents of the City of Fort Collins, who were requesting information on how the decisions on adulticiding are made. VDCI provided the relevant information and directed them to the city's website for further information.

## Appendix 1: Individual Light Trap Summaries

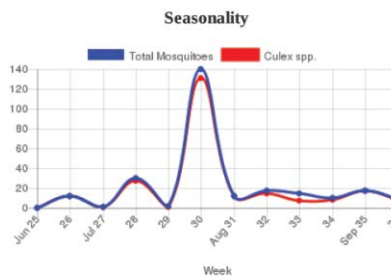
### FC-001

Season: 05/01/2021 - 09/20/2021  
 Trap Type: CDC Light Trap  
 Location: Magic Carpet  
 GPS: 40.49087011315602, -105.08256990462542

Total number of trap/nights set: 12.0  
 Total number of mosquitoes collected: 265.0  
 Average mosquitoes per trap/night: 22.1  
 Average Culex per trap/night: 19.9

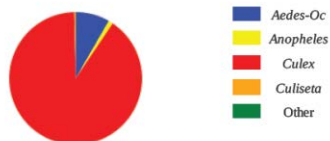
#### Species collected and abundance:

<i>Aedes dorsalis</i>	2.0	0.8%
<i>Aedes melanimon</i>	1.0	0.4%
<i>Aedes vexans</i>	19.0	7.2%
<i>Anopheles freeborni</i>	3.0	1.1%
<i>Culex pipiens</i>	68.0	25.7%
<i>Culex tarsalis</i>	171.0	64.5%
<i>Culiseta inornata</i>	1.0	0.4%



#### Genus Proportions:

Genus	Number	Percent of Total
<i>Aedes/Ochlerotatus</i>	22.0	8.3%
<i>Anopheles</i>	3.0	1.1%
<i>Culex</i>	239.0	90.2%
<i>Culiseta</i>	1.0	0.4%
Other	0.0	0.0%



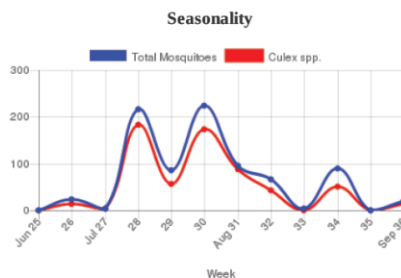
### FC-004

Season: 05/01/2021 - 09/20/2021  
 Trap Type: CDC Light Trap  
 Location: Big Horn  
 GPS: 40.53498867239214, -105.03751885145903

Total number of trap/nights set: 12.0  
 Total number of mosquitoes collected: 831.0  
 Average mosquitoes per trap/night: 69.3  
 Average Culex per trap/night: 52.4

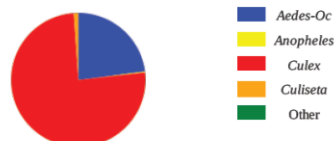
#### Species collected and abundance:

<i>Aedes dorsalis</i>	46.0	5.5%
<i>Aedes increpitus</i>	11.0	1.3%
<i>Aedes melanimon</i>	21.0	2.5%
<i>Aedes vexans</i>	113.0	13.6%
<i>Anopheles freeborni</i>	2.0	0.2%
<i>Culex pipiens</i>	142.0	17.1%
<i>Culex tarsalis</i>	487.0	58.6%
<i>Culiseta inornata</i>	9.0	1.1%



#### Genus Proportions:

Genus	Number	Percent of Total
<i>Aedes/Ochlerotatus</i>	191.0	23.0%
<i>Anopheles</i>	2.0	0.2%
<i>Culex</i>	629.0	75.7%
<i>Culiseta</i>	9.0	1.1%
Other	0.0	0.0%



## FC-006

Season: 05/01/2021 - 09/20/2021

Trap Type: CDC Light Trap

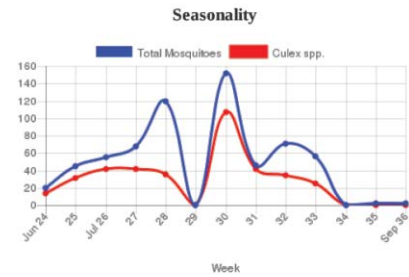
Location: N. Linden

GPS: 40.592327859908366, -105.06629493087529

Total number of trap/nights set: 12.0  
Total number of mosquitoes collected: 637.0  
Average mosquitoes per trap/night: 53.1  
Average Culex per trap/night: 31.0

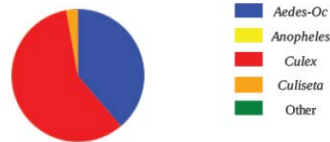
### Species collected and abundance:

<i>Aedes dorsalis</i>	20.0	3.1%
<i>Aedes inaeptus</i>	5.0	0.8%
<i>Aedes melanimon</i>	14.0	2.2%
<i>Aedes nigromaculis</i>	1.0	0.2%
<i>Aedes vexans</i>	207.0	32.5%
<i>Culex pipiens</i>	108.0	17.0%
<i>Culex tarsalis</i>	264.0	41.4%
<i>Culiseta inornata</i>	18.0	2.8%



### Genus Proportions:

Genus	Number	Percent of Total
<i>Aedes/Ochlerotatus</i>	247.0	38.8%
<i>Anopheles</i>	0.0	0.0%
<i>Culex</i>	372.0	58.4%
<i>Culiseta</i>	18.0	2.8%
Other	0.0	0.0%



## FC-011

Season: 05/01/2021 - 09/20/2021

Trap Type: CDC Light Trap

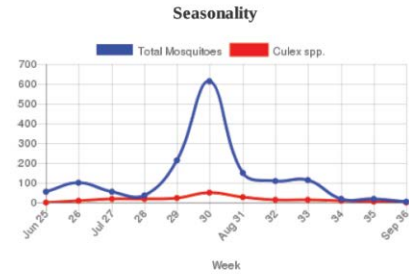
Location: Golden Current

GPS: 40.56947993409379, -105.13603001832962

Total number of trap/nights set: 12.0  
Total number of mosquitoes collected: 1,496.0  
Average mosquitoes per trap/night: 124.7  
Average Culex per trap/night: 15.7

### Species collected and abundance:

<i>Aedes cinereus</i>	31.0	2.1%
<i>Aedes dorsalis</i>	13.0	0.9%
<i>Aedes inaeptus</i>	47.0	3.1%
<i>Aedes melanimon</i>	2.0	0.1%
<i>Aedes vexans</i>	1,133.0	75.7%
<i>Anopheles freeborni</i>	41.0	2.7%
<i>Coquilletidia perturbans</i>	2.0	0.1%
<i>Culex pipiens</i>	86.0	5.7%
<i>Culex tarsalis</i>	102.0	6.8%
<i>Culiseta inornata</i>	39.0	2.6%



### Genus Proportions:

Genus	Number	Percent of Total
<i>Aedes/Ochlerotatus</i>	1,226.0	82.0%
<i>Anopheles</i>	41.0	2.7%
<i>Culex</i>	188.0	12.6%
<i>Culiseta</i>	39.0	2.6%
Other	2.0	0.1%



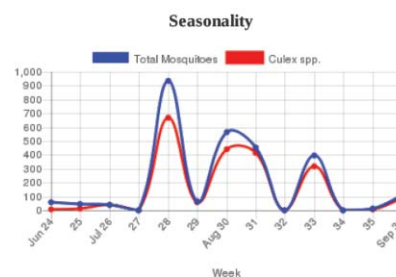
## FC-014

Season: 05/01/2021 - 09/20/2021  
 Trap Type: CDC Light Trap  
 Location: FC Visitor Center  
 GPS: 40.56509442567909, -105.00627581030129

Total number of trap/nights set: 12.0  
 Total number of mosquitoes collected: 2,674.0  
 Average mosquitoes per trap/night: 222.8  
 Average Culex per trap/night: 171.9

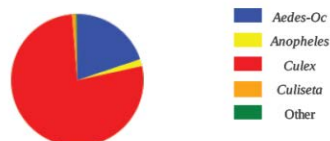
### Species collected and abundance:

<i>Aedes dorsalis</i>	260.0	9.7%
<i>Aedes fitchii</i>	1.0	0.0%
<i>Aedes increpitus</i>	77.0	2.9%
<i>Aedes melanimon</i>	47.0	1.8%
<i>Aedes nigromaculis</i>	1.0	0.0%
<i>Aedes vexans</i>	145.0	5.4%
<i>Anopheles earlei</i>	4.0	0.1%
<i>Anopheles freeborni</i>	42.0	1.6%
<i>Coquilletidia perturbans</i>	8.0	0.3%
<i>Culex pipiens</i>	1,192.0	44.6%
<i>Culex tarsalis</i>	871.0	32.6%
<i>Culiseta inornata</i>	26.0	1.0%



### Genus Proportions:

Genus	Number	Percent of Total
<i>Aedes/Ochlerotatus</i>	531.0	19.9%
<i>Anopheles</i>	46.0	1.7%
<i>Culex</i>	2,063.0	77.2%
<i>Culiseta</i>	26.0	1.0%
Other	8.0	0.3%



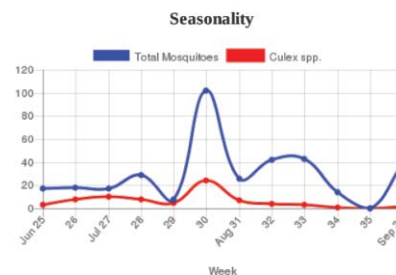
## FC-015

Season: 05/01/2021 - 09/20/2021  
 Trap Type: CDC Light Trap  
 Location: Stuart and Dorset  
 GPS: 40.5600827919436, -105.12403752654791

Total number of trap/nights set: 12.0  
 Total number of mosquitoes collected: 354.0  
 Average mosquitoes per trap/night: 29.5  
 Average Culex per trap/night: 6.3

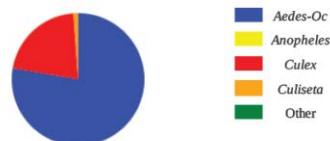
### Species collected and abundance:

<i>Aedes dorsalis</i>	7.0	2.0%
<i>Aedes increpitus</i>	2.0	0.6%
<i>Aedes melanimon</i>	3.0	0.8%
<i>Aedes vexans</i>	263.0	74.3%
<i>Culex pipiens</i>	9.0	2.5%
<i>Culex tarsalis</i>	66.0	18.6%
<i>Culiseta inornata</i>	4.0	1.1%



### Genus Proportions:

Genus	Number	Percent of Total
<i>Aedes/Ochlerotatus</i>	275.0	77.7%
<i>Anopheles</i>	0.0	0.0%
<i>Culex</i>	75.0	21.2%
<i>Culiseta</i>	4.0	1.1%
Other	0.0	0.0%



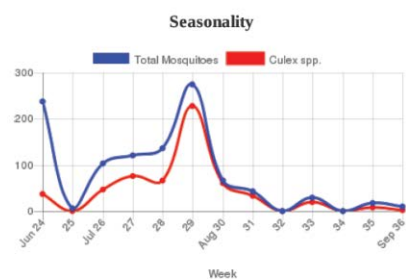
## FC-019

Season: 05/01/2021 - 09/20/2021  
 Trap Type: CDC Light Trap  
 Location: Edora Park  
 GPS: 40.565556701715764, -105.05251139402388

Total number of trap/nights set: 12.0  
 Total number of mosquitoes collected: 1,045.0  
 Average mosquitoes per trap/night: 87.1  
 Average Culex per trap/night: 48.3

### Species collected and abundance:

<i>Aedes dorsalis</i>	9.0	0.9%
<i>Aedes hendersoni</i>	5.0	0.5%
<i>Aedes inaeptus</i>	192.0	18.4%
<i>Aedes melanimon</i>	1.0	0.1%
<i>Aedes vexans</i>	210.0	20.1%
<i>Anopheles freeborni</i>	4.0	0.4%
<i>Coquillettidia perturbans</i>	5.0	0.5%
<i>Culex pipiens</i>	138.0	13.2%
<i>Culex tarsalis</i>	441.0	42.2%
<i>Culiseta inornata</i>	40.0	3.8%



### Genus Proportions:

Genus	Number	Percent of Total
<i>Aedes/Ochlerotatus</i>	417.0	39.9%
<i>Anopheles</i>	4.0	0.4%
<i>Culex</i>	579.0	55.4%
<i>Culiseta</i>	40.0	3.8%
Other	5.0	0.5%



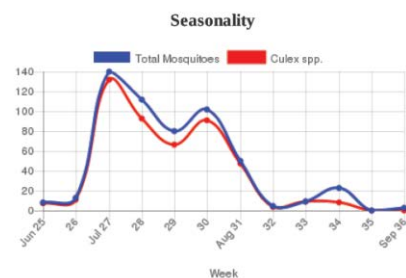
## FC-023

Season: 05/01/2021 - 09/20/2021  
 Trap Type: CDC Light Trap  
 Location: Boiz  
 GPS: 40.54436640664932, -105.06441771984099

Total number of trap/nights set: 12.0  
 Total number of mosquitoes collected: 545.0  
 Average mosquitoes per trap/night: 45.4  
 Average Culex per trap/night: 39.0

### Species collected and abundance:

<i>Aedes dorsalis</i>	25.0	4.6%
<i>Aedes inaeptus</i>	2.0	0.4%
<i>Aedes melanimon</i>	3.0	0.6%
<i>Aedes vexans</i>	35.0	6.4%
<i>Anopheles freeborni</i>	2.0	0.4%
<i>Coquillettidia perturbans</i>	5.0	0.9%
<i>Culex pipiens</i>	87.0	16.0%
<i>Culex tarsalis</i>	381.0	69.9%
<i>Culiseta inornata</i>	5.0	0.9%



### Genus Proportions:

Genus	Number	Percent of Total
<i>Aedes/Ochlerotatus</i>	65.0	11.9%
<i>Anopheles</i>	2.0	0.4%
<i>Culex</i>	468.0	85.9%
<i>Culiseta</i>	5.0	0.9%
Other	5.0	0.9%





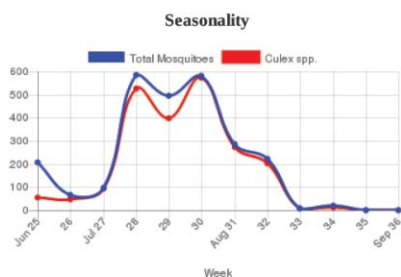
## FC-027

Season: 05/01/2021 - 09/20/2021  
 Trap Type: CDC Light Trap  
 Location: 3001 San Luis  
 GPS: 40.546510068398455, -105.03359008580445

Total number of trap/nights set: 12.0  
 Total number of mosquitoes collected: 2,568.0  
 Average mosquitoes per trap/night: 214.0  
 Average Culex per trap/night: 182.7

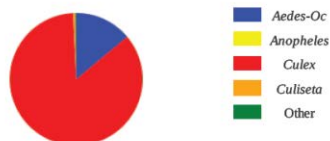
### Species collected and abundance:

<i>Aedes dorsalis</i>	28.0	1.1%
<i>Aedes increpitus</i>	48.0	1.9%
<i>Aedes melanimon</i>	9.0	0.4%
<i>Aedes trivittatus</i>	8.0	0.3%
<i>Aedes vexans</i>	264.0	10.3%
<i>Coquillettia perturbans</i>	5.0	0.2%
<i>Culex pipiens</i>	593.0	23.1%
<i>Culex tarsalis</i>	1,599.0	62.3%
<i>Culiseta inornata</i>	14.0	0.5%



### Genus Proportions:

Genus	Number	Percent of Total
<i>Aedes/Ochlerotatus</i>	357.0	13.9%
<i>Anopheles</i>	0.0	0.0%
<i>Culex</i>	2,192.0	85.4%
<i>Culiseta</i>	14.0	0.5%
Other	5.0	0.2%



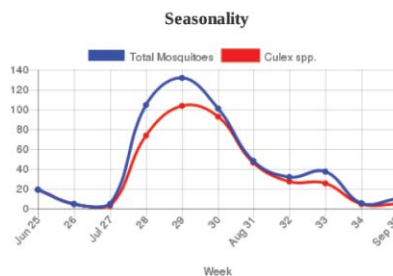
## FC-029

Season: 05/01/2021 - 09/20/2021  
 Trap Type: CDC Light Trap  
 Location: Ben's Park  
 GPS: 40.51136844640155, -105.07185079157352

Total number of trap/nights set: 11.0  
 Total number of mosquitoes collected: 500.0  
 Average mosquitoes per trap/night: 45.5  
 Average Culex per trap/night: 37.0

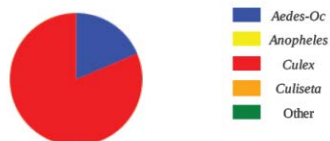
### Species collected and abundance:

<i>Aedes dorsalis</i>	17.0	3.4%
<i>Aedes melanimon</i>	1.0	0.2%
<i>Aedes vexans</i>	75.0	15.0%
<i>Culex pipiens</i>	61.0	12.2%
<i>Culex tarsalis</i>	346.0	69.2%



### Genus Proportions:

Genus	Number	Percent of Total
<i>Aedes/Ochlerotatus</i>	93.0	18.6%
<i>Anopheles</i>	0.0	0.0%
<i>Culex</i>	407.0	81.4%
<i>Culiseta</i>	0.0	0.0%
Other	0.0	0.0%



## FC-029gr

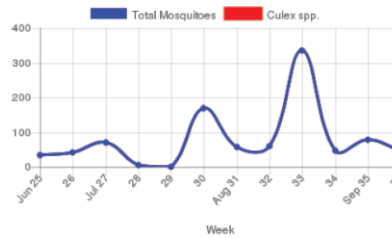
Season: 05/01/2021 - 09/20/2021  
 Trap Type: Gravid Trap  
 Location: Ben's Park Gravid  
 GPS: 40.51136309344342, -105.07115509361029

Total number of trap/nights set: 11.0  
 Total number of mosquitoes collected: 949.0  
 Average mosquitoes per trap/night: 86.3  
 Average Culex per trap/night: 85.9

### Species collected and abundance:

<i>Culex pipiens</i>	941.0	99.2%
<i>Culex tarsalis</i>	4.0	0.4%
<i>Culiseta inornata</i>	4.0	0.4%

### Seasonality



### Genus Proportions:

Genus	Number	Percent of Total
<i>Aedes/Ochlerotatus</i>	0.0	0.0%
<i>Anopheles</i>	0.0	0.0%
<i>Culex</i>	945.0	99.6%
<i>Culiseta</i>	4.0	0.4%
Other	0.0	0.0%



## FC-031

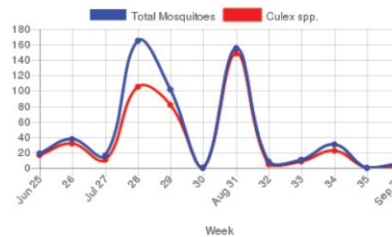
Season: 05/01/2021 - 09/20/2021  
 Trap Type: CDC Light Trap  
 Location: Willow Springs  
 GPS: 40.50608996726513, -105.03941986709833

Total number of trap/nights set: 11.0  
 Total number of mosquitoes collected: 552.0  
 Average mosquitoes per trap/night: 50.2  
 Average Culex per trap/night: 39.4

### Species collected and abundance:

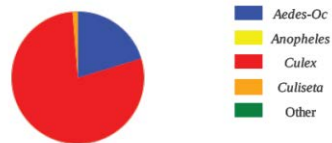
<i>Aedes dorsalis</i>	51.0	9.2%
<i>Aedes melanimon</i>	3.0	0.5%
<i>Aedes vexans</i>	58.0	10.5%
<i>Culex pipiens</i>	29.0	5.3%
<i>Culex tarsalis</i>	404.0	73.2%
<i>Culiseta inornata</i>	7.0	1.3%

### Seasonality



### Genus Proportions:

Genus	Number	Percent of Total
<i>Aedes/Ochlerotatus</i>	112.0	20.3%
<i>Anopheles</i>	0.0	0.0%
<i>Culex</i>	433.0	78.4%
<i>Culiseta</i>	7.0	1.3%
Other	0.0	0.0%



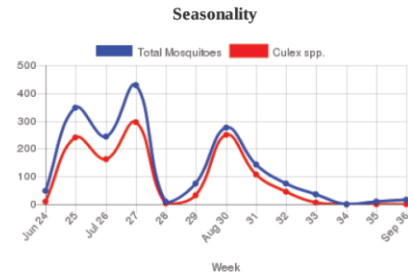
## FC-034

Season: 05/01/2021 - 09/20/2021  
 Trap Type: CDC Light Trap  
 Location: Country Club  
 GPS: 40.62669924225406, -105.0521868467331

Total number of trap/nights set: 12.0  
 Total number of mosquitoes collected: 1,707.0  
 Average mosquitoes per trap/night: 142.3  
 Average Culex per trap/night: 96.7

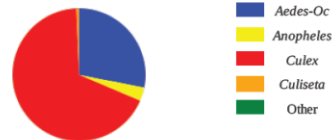
### Species collected and abundance:

<i>Aedes dorsalis</i>	112.0	6.6%
<i>Aedes inreptus</i>	1.0	0.1%
<i>Aedes melanimon</i>	37.0	2.2%
<i>Aedes vexans</i>	329.0	19.3%
<i>Anopheles freeborni</i>	57.0	3.3%
<i>Culex pipiens</i>	26.0	1.5%
<i>Culex tarsalis</i>	1,134.0	66.4%
<i>Culiseta inornata</i>	11.0	0.6%



### Genus Proportions:

Genus	Number	Percent of Total
<i>Aedes/Ochlerotatus</i>	479.0	28.1%
<i>Anopheles</i>	57.0	3.3%
<i>Culex</i>	1,160.0	68.0%
<i>Culiseta</i>	11.0	0.6%
Other	0.0	0.0%



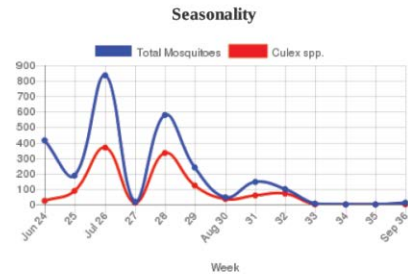
## FC-036

Season: 05/01/2021 - 09/20/2021  
 Trap Type: CDC Light Trap  
 Location: Hemlock  
 GPS: 40.60076561609448, -105.07983673363923

Total number of trap/nights set: 12.0  
 Total number of mosquitoes collected: 2,593.0  
 Average mosquitoes per trap/night: 216.1  
 Average Culex per trap/night: 93.3

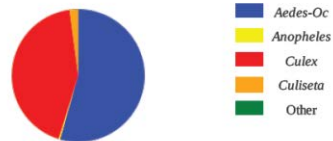
### Species collected and abundance:

<i>Aedes cinereus</i>	1.0	0.0%
<i>Aedes dorsalis</i>	43.0	1.7%
<i>Aedes hendersoni</i>	1.0	0.0%
<i>Aedes inreptus</i>	573.0	22.1%
<i>Aedes melanimon</i>	39.0	1.5%
<i>Aedes vexans</i>	753.0	29.0%
<i>Anopheles freeborni</i>	10.0	0.4%
<i>Culex pipiens</i>	169.0	6.5%
<i>Culex tarsalis</i>	950.0	36.6%
<i>Culiseta inornata</i>	54.0	2.1%



### Genus Proportions:

Genus	Number	Percent of Total
<i>Aedes/Ochlerotatus</i>	1,410.0	54.4%
<i>Anopheles</i>	10.0	0.4%
<i>Culex</i>	1,119.0	43.2%
<i>Culiseta</i>	54.0	2.1%
Other	0.0	0.0%



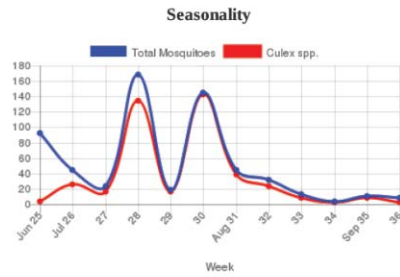
## FC-037

Season: 05/01/2021 - 09/20/2021  
 Trap Type: CDC Light Trap  
 Location: Chelsea Ridge  
 GPS: 40.51667989969775, -105.09808011353017

Total number of trap/nights set: 12.0  
 Total number of mosquitoes collected: 604.0  
 Average mosquitoes per trap/night: 50.3  
 Average Culex per trap/night: 35.3

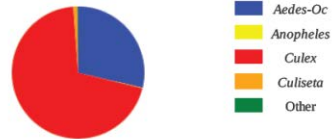
### Species collected and abundance:

<i>Aedes dorsalis</i>	73.0	12.1%
<i>Aedes hendersoni</i>	4.0	0.7%
<i>Aedes increpitus</i>	26.0	4.3%
<i>Aedes vexans</i>	70.0	11.6%
<i>Anopheles freeborni</i>	1.0	0.2%
<i>Coquilletidia perturbans</i>	1.0	0.2%
<i>Culex pipiens</i>	48.0	7.9%
<i>Culex tarsalis</i>	375.0	62.1%
<i>Culiseta inornata</i>	6.0	1.0%



### Genus Proportions:

Genus	Number	Percent of Total
<i>Aedes/Ochlerotatus</i>	173.0	28.6%
<i>Anopheles</i>	1.0	0.2%
<i>Culex</i>	423.0	70.0%
<i>Culiseta</i>	6.0	1.0%
Other	1.0	0.2%



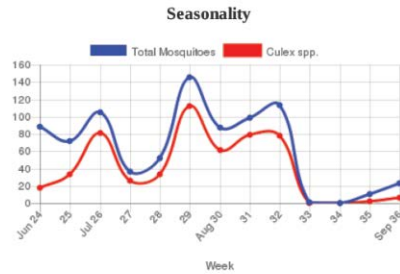
## FC-038

Season: 05/01/2021 - 09/20/2021  
 Trap Type: CDC Light Trap  
 Location: Lochside Lane  
 GPS: 40.59907046206435, -105.00655643641949

Total number of trap/nights set: 12.0  
 Total number of mosquitoes collected: 832.0  
 Average mosquitoes per trap/night: 69.3  
 Average Culex per trap/night: 44.1

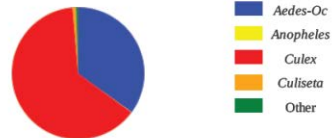
### Species collected and abundance:

<i>Aedes dorsalis</i>	26.0	3.1%
<i>Aedes increpitus</i>	42.0	5.0%
<i>Aedes melanimon</i>	26.0	3.1%
<i>Aedes trivittatus</i>	2.0	0.2%
<i>Aedes vexans</i>	195.0	23.4%
<i>Anopheles freeborni</i>	1.0	0.1%
<i>Coquilletidia perturbans</i>	4.0	0.5%
<i>Culex pipiens</i>	58.0	7.0%
<i>Culex tarsalis</i>	471.0	56.6%
<i>Culiseta inornata</i>	7.0	0.8%



### Genus Proportions:

Genus	Number	Percent of Total
<i>Aedes/Ochlerotatus</i>	291.0	35.0%
<i>Anopheles</i>	1.0	0.1%
<i>Culex</i>	529.0	63.6%
<i>Culiseta</i>	7.0	0.8%
Other	4.0	0.5%



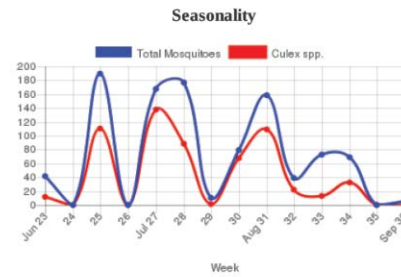
## FC-039

Season: 05/01/2021 - 09/20/2021  
 Trap Type: CDC Light Trap  
 Location: Fossil Creek South  
 GPS: 40.4808101171896, -105.03934007138014

Total number of trap/nights set: 14.0  
 Total number of mosquitoes collected: 1,009.0  
 Average mosquitoes per trap/night: 72.1  
 Average Culex per trap/night: 42.4

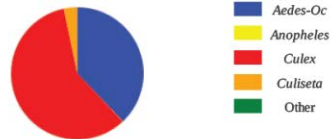
### Species collected and abundance:

<i>Aedes dorsalis</i>	174.0	17.2%
<i>Aedes increpitus</i>	11.0	1.1%
<i>Aedes melanimon</i>	31.0	3.1%
<i>Aedes nigromaculis</i>	2.0	0.2%
<i>Aedes vexans</i>	164.0	16.3%
<i>Anopheles freeborni</i>	1.0	0.1%
<i>Culex pipiens</i>	30.0	3.0%
<i>Culex tarsalis</i>	563.0	55.8%
<i>Culiseta inornata</i>	33.0	3.3%



### Genus Proportions:

Genus	Number	Percent of Total
<i>Aedes/Ochlerotatus</i>	382.0	37.9%
<i>Anopheles</i>	1.0	0.1%
<i>Culex</i>	593.0	58.8%
<i>Culiseta</i>	33.0	3.3%
Other	0.0	0.0%



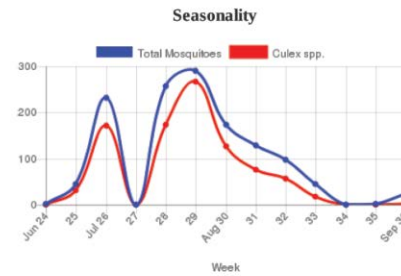
## FC-040

Season: 05/01/2021 - 09/20/2021  
 Trap Type: CDC Light Trap  
 Location: Redwood  
 GPS: 40.60307751389784, -105.06707444787025

Total number of trap/nights set: 12.0  
 Total number of mosquitoes collected: 1,299.0  
 Average mosquitoes per trap/night: 108.3  
 Average Culex per trap/night: 77.2

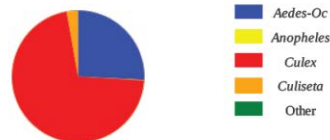
### Species collected and abundance:

<i>Aedes dorsalis</i>	123.0	9.5%
<i>Aedes increpitus</i>	5.0	0.4%
<i>Aedes melanimon</i>	7.0	0.5%
<i>Aedes vexans</i>	200.0	15.4%
<i>Anopheles freeborni</i>	2.0	0.2%
<i>Culex pipiens</i>	97.0	7.5%
<i>Culex tarsalis</i>	829.0	63.8%
<i>Culiseta inornata</i>	36.0	2.8%



### Genus Proportions:

Genus	Number	Percent of Total
<i>Aedes/Ochlerotatus</i>	335.0	25.8%
<i>Anopheles</i>	2.0	0.2%
<i>Culex</i>	926.0	71.3%
<i>Culiseta</i>	36.0	2.8%
Other	0.0	0.0%





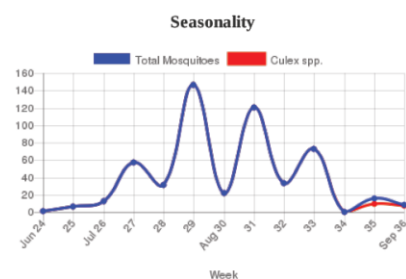
## FC-040gr

Season: 05/01/2021 - 09/20/2021  
 Trap Type: Gravid Trap  
 Location: Redwood Gravid  
 GPS: 40.60309558721682, -105.06650783121586

Total number of trap/nights set: 12.0  
 Total number of mosquitoes collected: 528.0  
 Average mosquitoes per trap/night: 44.0  
 Average Culex per trap/night: 43.3

### Species collected and abundance:

<i>Aedes vexans</i>	1.0	0.2%
<i>Anopheles freeborni</i>	7.0	1.3%
<i>Culex pipiens</i>	519.0	98.3%
<i>Culex tarsalis</i>	1.0	0.2%



### Genus Proportions:

Genus	Number	Percent of Total
<i>Aedes/Ochlerotatus</i>	1.0	0.2%
<i>Anopheles</i>	7.0	1.3%
<i>Culex</i>	520.0	98.5%
<i>Culiseta</i>	0.0	0.0%
Other	0.0	0.0%



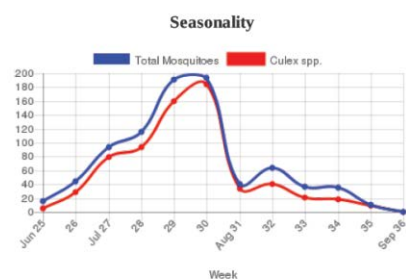
## FC-041

Season: 05/01/2021 - 09/20/2021  
 Trap Type: CDC Light Trap  
 Location: Fishback  
 GPS: 40.58794002990494, -105.10486006736755

Total number of trap/nights set: 12.0  
 Total number of mosquitoes collected: 841.0  
 Average mosquitoes per trap/night: 70.1  
 Average Culex per trap/night: 56.2

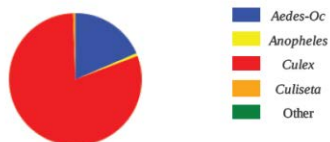
### Species collected and abundance:

<i>Aedes cinereus</i>	1.0	0.1%
<i>Aedes dorsalis</i>	8.0	1.0%
<i>Aedes fitchii</i>	2.0	0.2%
<i>Aedes hendersoni</i>	1.0	0.1%
<i>Aedes inaequalis</i>	9.0	1.1%
<i>Aedes melanion</i>	5.0	0.6%
<i>Aedes vexans</i>	130.0	15.5%
<i>Anopheles freeborni</i>	6.0	0.7%
<i>Culex pipiens</i>	133.0	15.8%
<i>Culex tarsalis</i>	541.0	64.3%
<i>Culiseta inornata</i>	5.0	0.6%



### Genus Proportions:

Genus	Number	Percent of Total
<i>Aedes/Ochlerotatus</i>	156.0	18.5%
<i>Anopheles</i>	6.0	0.7%
<i>Culex</i>	674.0	80.1%
<i>Culiseta</i>	5.0	0.6%
Other	0.0	0.0%



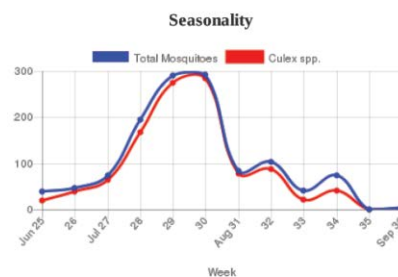
## FC-046

Season: 05/01/2021 - 09/20/2021  
 Trap Type: CDC Light Trap  
 Location: Westshore Ct  
 GPS: 40.52954284354251, -105.0651342049241

Total number of trap/nights set: 12.0  
 Total number of mosquitoes collected: 1,245.0  
 Average mosquitoes per trap/night: 103.8  
 Average Culex per trap/night: 90.1

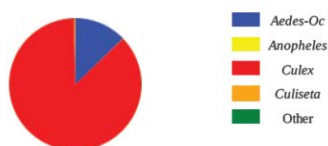
### Species collected and abundance:

<i>Aedes dorsalis</i>	15.0	1.2%
<i>Aedes increpitus</i>	5.0	0.4%
<i>Aedes melanimon</i>	5.0	0.4%
<i>Aedes vexans</i>	134.0	10.8%
<i>Anopheles freeborni</i>	1.0	0.1%
<i>Culex pipiens</i>	223.0	17.9%
<i>Culex tarsalis</i>	858.0	68.9%
<i>Culiseta inornata</i>	4.0	0.3%



### Genus Proportions:

Genus	Number	Percent of Total
<i>Aedes/Ochlerotatus</i>	159.0	12.8%
<i>Anopheles</i>	1.0	0.1%
<i>Culex</i>	1,081.0	86.8%
<i>Culiseta</i>	4.0	0.3%
Other	0.0	0.0%



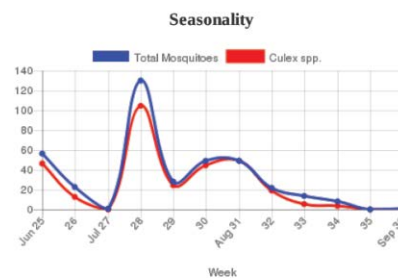
## FC-047

Season: 05/01/2021 - 09/20/2021  
 Trap Type: CDC Light Trap  
 Location: Keeneland And Twin Oak  
 GPS: 40.51511286336567, -105.0528560578823

Total number of trap/nights set: 12.0  
 Total number of mosquitoes collected: 381.0  
 Average mosquitoes per trap/night: 31.8  
 Average Culex per trap/night: 26.0

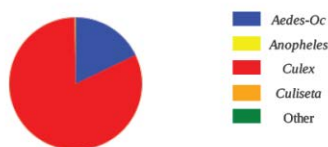
### Species collected and abundance:

<i>Aedes dorsalis</i>	8.0	2.1%
<i>Aedes increpitus</i>	7.0	1.8%
<i>Aedes vexans</i>	53.0	13.9%
<i>Culex pipiens</i>	30.0	7.9%
<i>Culex tarsalis</i>	282.0	74.0%
<i>Culiseta inornata</i>	1.0	0.3%



### Genus Proportions:

Genus	Number	Percent of Total
<i>Aedes/Ochlerotatus</i>	68.0	17.8%
<i>Anopheles</i>	0.0	0.0%
<i>Culex</i>	312.0	81.9%
<i>Culiseta</i>	1.0	0.3%
Other	0.0	0.0%



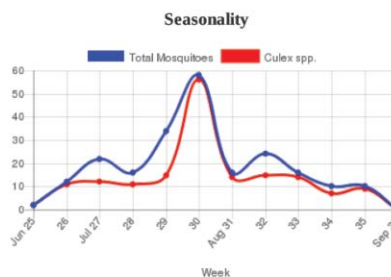
## FC-049

Season: 05/01/2021 - 09/20/2021  
 Trap Type: CDC Light Trap  
 Location: Casa Grande and Downing  
 GPS: 40.573239949533054, -105.13949006795883

Total number of trap/nights set: 12.0  
 Total number of mosquitoes collected: 220.0  
 Average mosquitoes per trap/night: 18.3  
 Average Culex per trap/night: 13.8

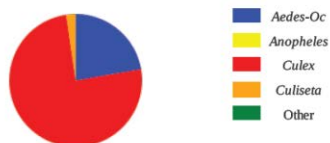
### Species collected and abundance:

<i>Aedes dorsalis</i>	1.0	0.5%
<i>Aedes increpitus</i>	1.0	0.5%
<i>Aedes vexans</i>	47.0	21.4%
<i>Culex pipiens</i>	45.0	20.5%
<i>Culex tarsalis</i>	121.0	55.0%
<i>Culiseta inornata</i>	5.0	2.3%



### Genus Proportions:

Genus	Number	Percent of Total
<i>Aedes/Ochlerotatus</i>	49.0	22.3%
<i>Anopheles</i>	0.0	0.0%
<i>Culex</i>	166.0	75.5%
<i>Culiseta</i>	5.0	2.3%
Other	0.0	0.0%



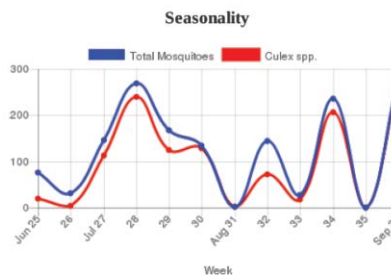
## FC-050

Season: 05/01/2021 - 09/20/2021  
 Trap Type: CDC Light Trap  
 Location: Golden Meadows Ditch  
 GPS: 40.52954004037219, -105.05033008754252

Total number of trap/nights set: 12.0  
 Total number of mosquitoes collected: 1,515.0  
 Average mosquitoes per trap/night: 126.3  
 Average Culex per trap/night: 100.1

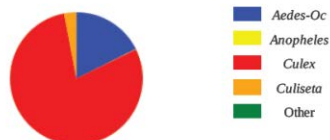
### Species collected and abundance:

<i>Aedes dorsalis</i>	23.0	1.5%
<i>Aedes increpitus</i>	6.0	0.4%
<i>Aedes melanimon</i>	1.0	0.1%
<i>Aedes trivittatus</i>	1.0	0.1%
<i>Aedes vexans</i>	236.0	15.6%
<i>Anopheles freeborni</i>	2.0	0.1%
<i>Culex pipiens</i>	642.0	42.4%
<i>Culex tarsalis</i>	559.0	36.9%
<i>Culiseta inornata</i>	45.0	3.0%



### Genus Proportions:

Genus	Number	Percent of Total
<i>Aedes/Ochlerotatus</i>	267.0	17.6%
<i>Anopheles</i>	2.0	0.1%
<i>Culex</i>	1,201.0	79.3%
<i>Culiseta</i>	45.0	3.0%
Other	0.0	0.0%



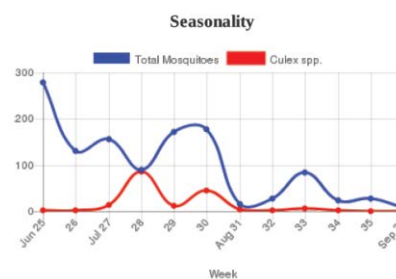
## FC-052

Season: 05/01/2021 - 09/20/2021  
 Trap Type: CDC Light Trap  
 Location: 603 Gilgalad Way  
 GPS: 40.5616299281039, -105.08703008294106

Total number of trap/nights set: 12.0  
 Total number of mosquitoes collected: 1,189.0  
 Average mosquitoes per trap/night: 99.1  
 Average Culex per trap/night: 14.9

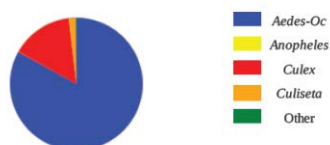
### Species collected and abundance:

<i>Aedes cinereus</i>	85.0	7.1%
<i>Aedes dorsalis</i>	12.0	1.0%
<i>Aedes fitchii</i>	3.0	0.3%
<i>Aedes increpitus</i>	57.0	4.8%
<i>Aedes melanimon</i>	9.0	0.8%
<i>Aedes trivittatus</i>	5.0	0.4%
<i>Aedes vexans</i>	816.0	68.6%
<i>Anopheles freeborni</i>	1.0	0.1%
<i>Coquillettidia perturbans</i>	2.0	0.2%
<i>Culex pipiens</i>	20.0	1.7%
<i>Culex tarsalis</i>	159.0	13.4%
<i>Culiseta inornata</i>	20.0	1.7%



### Genus Proportions:

Genus	Number	Percent of Total
<i>Aedes/Ochlerotatus</i>	987.0	83.0%
<i>Anopheles</i>	1.0	0.1%
<i>Culex</i>	179.0	15.1%
<i>Culiseta</i>	20.0	1.7%
Other	2.0	0.2%



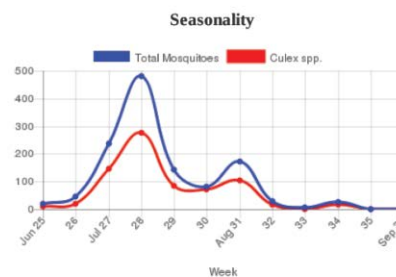
## FC-053

Season: 05/01/2021 - 09/20/2021  
 Trap Type: CDC Light Trap  
 Location: Egret and Rookery  
 GPS: 40.4994200898768, -105.01182999461888

Total number of trap/nights set: 12.0  
 Total number of mosquitoes collected: 1,245.0  
 Average mosquitoes per trap/night: 103.8  
 Average Culex per trap/night: 62.4

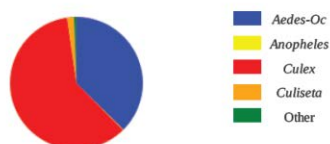
### Species collected and abundance:

<i>Aedes dorsalis</i>	26.0	2.1%
<i>Aedes melanimon</i>	14.0	1.1%
<i>Aedes vexans</i>	426.0	34.2%
<i>Anopheles freeborni</i>	2.0	0.2%
<i>Coquillettidia perturbans</i>	7.0	0.6%
<i>Culex pipiens</i>	9.0	0.7%
<i>Culex tarsalis</i>	740.0	59.4%
<i>Culiseta inornata</i>	21.0	1.7%



### Genus Proportions:

Genus	Number	Percent of Total
<i>Aedes/Ochlerotatus</i>	466.0	37.4%
<i>Anopheles</i>	2.0	0.2%
<i>Culex</i>	749.0	60.2%
<i>Culiseta</i>	21.0	1.7%
Other	7.0	0.6%



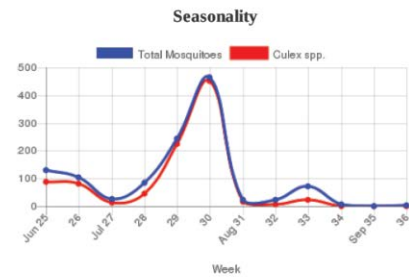
## FC-054

Season: 05/01/2021 - 09/20/2021  
 Trap Type: CDC Light Trap  
 Location: 737 Parliament  
 GPS: 40.49997995372379, -105.06319999694824

Total number of trap/nights set: 12.0  
 Total number of mosquitoes collected: 1,185.0  
 Average mosquitoes per trap/night: 98.8  
 Average Culex per trap/night: 79.8

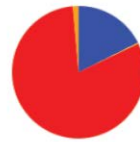
### Species collected and abundance:

<i>Aedes cinereus</i>	4.0	0.3%
<i>Aedes dorsalis</i>	33.0	2.8%
<i>Aedes increpitus</i>	6.0	0.5%
<i>Aedes melanimon</i>	5.0	0.4%
<i>Aedes vexans</i>	161.0	13.6%
<i>Anopheles freeborni</i>	3.0	0.3%
<i>Culex pipiens</i>	120.0	10.1%
<i>Culex tarsalis</i>	837.0	70.6%
<i>Culiseta inornata</i>	16.0	1.4%



### Genus Proportions:

Genus	Number	Percent of Total
<i>Aedes/Ochlerotatus</i>	209.0	17.6%
<i>Anopheles</i>	3.0	0.3%
<i>Culex</i>	957.0	80.8%
<i>Culiseta</i>	16.0	1.4%
Other	0.0	0.0%



■ *Aedes-Oc*  
 ■ *Anopheles*  
 ■ *Culex*  
 ■ *Culiseta*  
 ■ Other

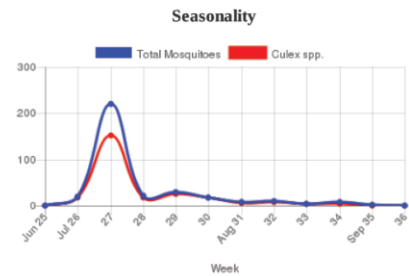
## FC-057

Season: 05/01/2021 - 09/20/2021  
 Trap Type: CDC Light Trap  
 Location: Registry Ridge  
 GPS: 40.48438997678501, -105.10523993521929

Total number of trap/nights set: 12.0  
 Total number of mosquitoes collected: 342.0  
 Average mosquitoes per trap/night: 28.5  
 Average Culex per trap/night: 21.2

### Species collected and abundance:

<i>Aedes dorsalis</i>	4.0	1.2%
<i>Aedes increpitus</i>	26.0	7.6%
<i>Aedes vexans</i>	45.0	13.2%
<i>Culex pipiens</i>	14.0	4.1%
<i>Culex tarsalis</i>	240.0	70.2%
<i>Culiseta inornata</i>	12.0	3.5%
<i>Culiseta spp.</i>	1.0	0.3%



### Genus Proportions:

Genus	Number	Percent of Total
<i>Aedes/Ochlerotatus</i>	75.0	21.9%
<i>Anopheles</i>	0.0	0.0%
<i>Culex</i>	254.0	74.3%
<i>Culiseta</i>	13.0	3.8%
Other	0.0	0.0%



■ *Aedes-Oc*  
 ■ *Anopheles*  
 ■ *Culex*  
 ■ *Culiseta*  
 ■ Other

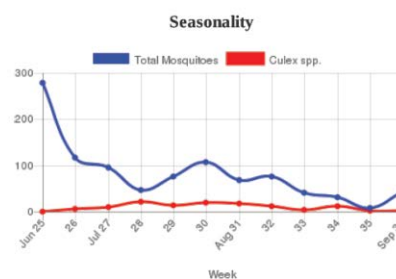
## FC-058

Season: 05/01/2021 - 09/20/2021  
 Trap Type: CDC Light Trap  
 Location: Spring Creek Trail-- Michener Dr  
 GPS: 40.54883989155028, -105.12533001601697

Total number of trap/nights set: 12.0  
 Total number of mosquitoes collected: 992.0  
 Average mosquitoes per trap/night: 82.7  
 Average Culex per trap/night: 10.0

### Species collected and abundance:

<i>Aedes dorsalis</i>	3.0	0.3%
<i>Aedes hendersoni</i>	1.0	0.1%
<i>Aedes increpitus</i>	260.0	26.2%
<i>Aedes trivittatus</i>	3.0	0.3%
<i>Aedes vexans</i>	596.0	60.1%
<i>Anopheles freeborni</i>	1.0	0.1%
<i>Culex pipiens</i>	26.0	2.6%
<i>Culex tarsalis</i>	94.0	9.5%
<i>Culiseta inornata</i>	8.0	0.8%



### Genus Proportions:

Genus	Number	Percent of Total
<i>Aedes/Ochlerotatus</i>	863.0	87.0%
<i>Anopheles</i>	1.0	0.1%
<i>Culex</i>	120.0	12.1%
<i>Culiseta</i>	8.0	0.8%
Other	0.0	0.0%



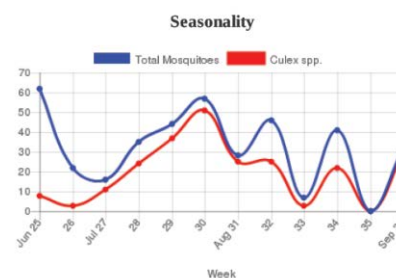
## FC-059

Season: 05/01/2021 - 09/20/2021  
 Trap Type: CDC Light Trap  
 Location: Springwood and Lochwood  
 GPS: 40.5426000124595, -105.0460398942232

Total number of trap/nights set: 12.0  
 Total number of mosquitoes collected: 390.0  
 Average mosquitoes per trap/night: 32.5  
 Average Culex per trap/night: 19.8

### Species collected and abundance:

<i>Aedes dorsalis</i>	11.0	2.8%
<i>Aedes increpitus</i>	1.0	0.3%
<i>Aedes melanimon</i>	3.0	0.8%
<i>Aedes vexans</i>	125.0	32.1%
<i>Anopheles freeborni</i>	4.0	1.0%
<i>Coquilletidia perturbans</i>	1.0	0.3%
<i>Culex pipiens</i>	98.0	25.1%
<i>Culex tarsalis</i>	140.0	35.9%
<i>Culiseta inornata</i>	7.0	1.8%



### Genus Proportions:

Genus	Number	Percent of Total
<i>Aedes/Ochlerotatus</i>	140.0	35.9%
<i>Anopheles</i>	4.0	1.0%
<i>Culex</i>	238.0	61.0%
<i>Culiseta</i>	7.0	1.8%
Other	1.0	0.3%





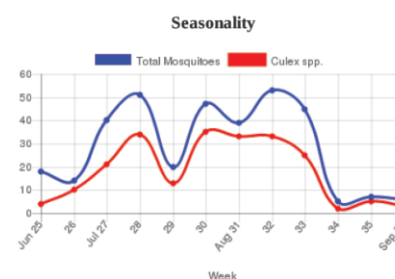
## FC-060

Season: 05/01/2021 - 09/20/2021  
 Trap Type: CDC Light Trap  
 Location: 808 Ponderosa  
 GPS: 40.548700028018544, -105.12018989771605

Total number of trap/nights set: 12.0  
 Total number of mosquitoes collected: 345.0  
 Average mosquitoes per trap/night: 28.8  
 Average Culex per trap/night: 18.2

### Species collected and abundance:

<i>Aedes dorsalis</i>	7.0	2.0%
<i>Aedes melanimon</i>	1.0	0.3%
<i>Aedes vexans</i>	107.0	31.0%
<i>Anopheles freeborni</i>	9.0	2.6%
<i>Culex pipiens</i>	87.0	25.2%
<i>Culex tarsalis</i>	131.0	38.0%
<i>Culiseta inornata</i>	3.0	0.9%



### Genus Proportions:

Genus	Number	Percent of Total
<i>Aedes/Ochlerotatus</i>	115.0	33.3%
<i>Anopheles</i>	9.0	2.6%
<i>Culex</i>	218.0	63.2%
<i>Culiseta</i>	3.0	0.9%
Other	0.0	0.0%



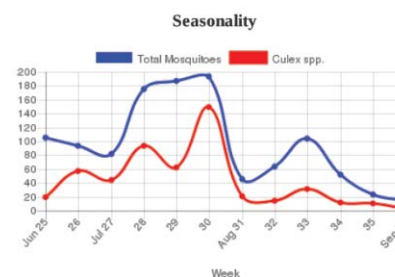
## FC-061

Season: 05/01/2021 - 09/20/2021  
 Trap Type: CDC Light Trap  
 Location: Holley Plant Research Center  
 GPS: 40.56879993041706, -105.09164985269308

Total number of trap/nights set: 12.0  
 Total number of mosquitoes collected: 1,139.0  
 Average mosquitoes per trap/night: 94.9  
 Average Culex per trap/night: 43.2

### Species collected and abundance:

<i>Aedes dorsalis</i>	7.0	0.6%
<i>Aedes inaeptus</i>	16.0	1.4%
<i>Aedes melanimon</i>	3.0	0.3%
<i>Aedes trivittatus</i>	4.0	0.4%
<i>Aedes vexans</i>	577.0	50.7%
<i>Anopheles freeborni</i>	3.0	0.3%
<i>Culex pipiens</i>	71.0	6.2%
<i>Culex tarsalis</i>	447.0	39.2%
<i>Culiseta inornata</i>	11.0	1.0%



### Genus Proportions:

Genus	Number	Percent of Total
<i>Aedes/Ochlerotatus</i>	607.0	53.3%
<i>Anopheles</i>	3.0	0.3%
<i>Culex</i>	518.0	45.5%
<i>Culiseta</i>	11.0	1.0%
Other	0.0	0.0%



## FC-062

Season: 05/01/2021 - 09/20/2021

Trap Type: CDC Light Trap

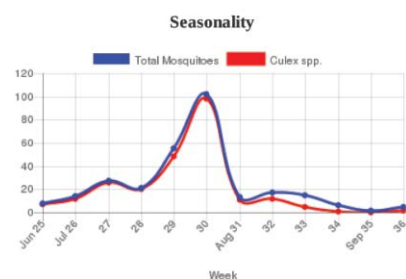
Location: Water's Edge at Blue Mesa

GPS: 40.542779889722866, -105.08740995079279

Total number of trap/nights set: 12.0  
 Total number of mosquitoes collected: 285.0  
 Average mosquitoes per trap/night: 23.8  
 Average Culex per trap/night: 20.2

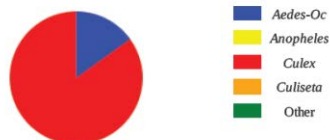
### Species collected and abundance:

<i>Aedes dorsalis</i>	7.0	2.5%
<i>Aedes melanimon</i>	1.0	0.4%
<i>Aedes vexans</i>	35.0	12.3%
<i>Culex pipiens</i>	52.0	18.2%
<i>Culex tarsalis</i>	190.0	66.7%



### Genus Proportions:

Genus	Number	Percent of Total
<i>Aedes/Ochlerotatus</i>	43.0	15.1%
<i>Anopheles</i>	0.0	0.0%
<i>Culex</i>	242.0	84.9%
<i>Culiseta</i>	0.0	0.0%
Other	0.0	0.0%



## FC-063

Season: 05/01/2021 - 09/20/2021

Trap Type: CDC Light Trap

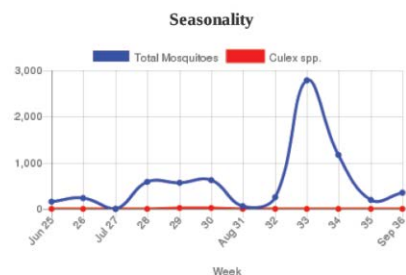
Location: Red Fox Meadows

GPS: 40.565679974786285, -105.10485000908375

Total number of trap/nights set: 12.0  
 Total number of mosquitoes collected: 7,018.0  
 Average mosquitoes per trap/night: 584.8  
 Average Culex per trap/night: 6.7

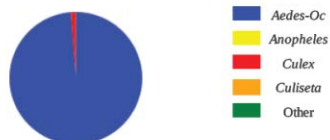
### Species collected and abundance:

<i>Aedes cinereus</i>	65.0	0.9%
<i>Aedes dorsalis</i>	4.0	0.1%
<i>Aedes fitchii</i>	1.0	0.0%
<i>Aedes hendersoni</i>	1.0	0.0%
<i>Aedes inepitatus</i>	98.0	1.4%
<i>Aedes vexans</i>	6,766.0	96.4%
<i>Anopheles freeborni</i>	1.0	0.0%
<i>Culex pipiens</i>	22.0	0.3%
<i>Culex tarsalis</i>	58.0	0.8%
<i>Culiseta inornata</i>	2.0	0.0%



### Genus Proportions:

Genus	Number	Percent of Total
<i>Aedes/Ochlerotatus</i>	6,935.0	98.8%
<i>Anopheles</i>	1.0	0.0%
<i>Culex</i>	80.0	1.1%
<i>Culiseta</i>	2.0	0.0%
Other	0.0	0.0%



## FC-063gr

Season: 05/01/2021 - 09/20/2021

Trap Type: Gravid Trap

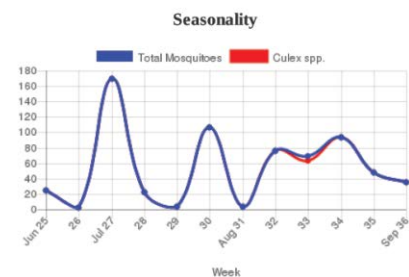
Location: Red Fox Meadows Gravid

GPS: 40.565679974786285, -105.10504983365536

Total number of trap/nights set: 12.0  
Total number of mosquitoes collected: 655.0  
Average mosquitoes per trap/night: 54.6  
Average Culex per trap/night: 54.0

### Species collected and abundance:

<i>Aedes vexans</i>	6.0	0.9%
<i>Anopheles freeborni</i>	1.0	0.2%
<i>Culex pipiens</i>	647.0	98.8%
<i>Culex tarsalis</i>	1.0	0.2%



### Genus Proportions:

Genus	Number	Percent of Total
<i>Aedes/Ochlerotatus</i>	6.0	0.9%
<i>Anopheles</i>	1.0	0.2%
<i>Culex</i>	648.0	98.9%
<i>Culiseta</i>	0.0	0.0%
Other	0.0	0.0%



## FC-064

Season: 05/01/2021 - 09/20/2021

Trap Type: CDC Light Trap

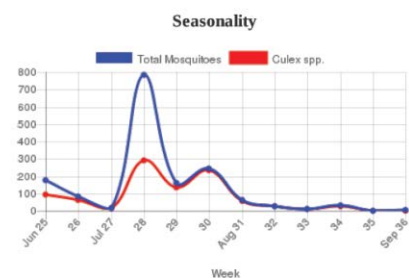
Location: West Chase

GPS: 40.49867997125427, -105.0298001244664

Total number of trap/nights set: 12.0  
Total number of mosquitoes collected: 1,614.0  
Average mosquitoes per trap/night: 134.5  
Average Culex per trap/night: 79.5

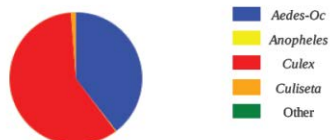
### Species collected and abundance:

<i>Aedes cinereus</i>	6.0	0.4%
<i>Aedes dorsalis</i>	77.0	4.8%
<i>Aedes increpitus</i>	21.0	1.3%
<i>Aedes melanimon</i>	11.0	0.7%
<i>Aedes vexans</i>	523.0	32.4%
<i>Anopheles freeborni</i>	3.0	0.2%
<i>Culex pipiens</i>	72.0	4.5%
<i>Culex tarsalis</i>	882.0	54.6%
<i>Culiseta inornata</i>	19.0	1.2%



### Genus Proportions:

Genus	Number	Percent of Total
<i>Aedes/Ochlerotatus</i>	638.0	39.5%
<i>Anopheles</i>	3.0	0.2%
<i>Culex</i>	954.0	59.1%
<i>Culiseta</i>	19.0	1.2%
Other	0.0	0.0%



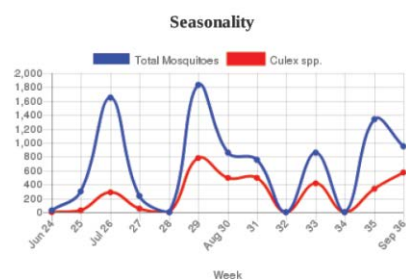
## FC-066

Season: 05/01/2021 - 09/20/2021  
 Trap Type: CDC Light Trap  
 Location: Prospect Ponds  
 GPS: 40.55846837302044, -105.02281665802002

Total number of trap/nights set: 12.0  
 Total number of mosquitoes collected: 8,816.0  
 Average mosquitoes per trap/night: 734.7  
 Average Culex per trap/night: 289.8

### Species collected and abundance:

<i>Aedes cinereus</i>	1.0	0.0%
<i>Aedes dorsalis</i>	92.0	1.0%
<i>Aedes fitchii</i>	2.0	0.0%
<i>Aedes increpitus</i>	1,001.0	11.4%
<i>Aedes melanimon</i>	673.0	7.6%
<i>Aedes nigromaculis</i>	1.0	0.0%
<i>Aedes trivittatus</i>	1.0	0.0%
<i>Aedes vexans</i>	2,368.0	26.9%
<i>Anopheles freeborni</i>	196.0	2.2%
<i>Coquilletidia perturbans</i>	908.0	10.3%
<i>Culex pipiens</i>	2,639.0	29.9%
<i>Culex tarsalis</i>	838.0	9.5%
<i>Culiseta inornata</i>	96.0	1.1%



### Genus Proportions:

Genus	Number	Percent of Total
<i>Aedes/Ochlerotatus</i>	4,139.0	46.9%
<i>Anopheles</i>	196.0	2.2%
<i>Culex</i>	3,477.0	39.4%
<i>Culiseta</i>	96.0	1.1%
Other	908.0	10.3%



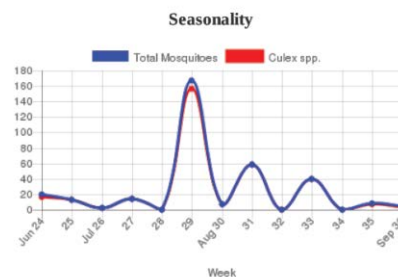
## FC-066gr

Season: 05/01/2021 - 09/20/2021  
 Trap Type: Gravid Trap  
 Location: Prospect Ponds Gravid  
 GPS: 40.55830305717813, -105.02268858253954

Total number of trap/nights set: 12.0  
 Total number of mosquitoes collected: 336.0  
 Average mosquitoes per trap/night: 28.0  
 Average Culex per trap/night: 26.7

### Species collected and abundance:

<i>Aedes increpitus</i>	3.0	0.9%
<i>Aedes vexans</i>	2.0	0.6%
<i>Anopheles freeborni</i>	5.0	1.5%
<i>Culex pipiens</i>	296.0	88.1%
<i>Culex tarsalis</i>	24.0	7.1%
<i>Culiseta inornata</i>	6.0	1.8%



### Genus Proportions:

Genus	Number	Percent of Total
<i>Aedes/Ochlerotatus</i>	5.0	1.5%
<i>Anopheles</i>	5.0	1.5%
<i>Culex</i>	320.0	95.2%
<i>Culiseta</i>	6.0	1.8%
Other	0.0	0.0%



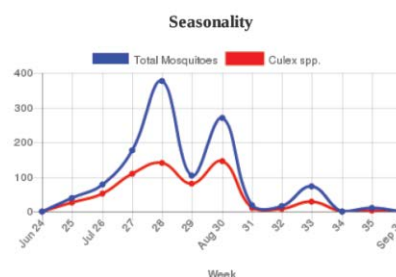
## FC-067

Season: 05/01/2021 - 09/20/2021  
 Trap Type: CDC Light Trap  
 Location: Poudre River Trail  
 GPS: 40.57749479750878, -105.05568780004978

Total number of trap/nights set: 12.0  
 Total number of mosquitoes collected: 1,158.0  
 Average mosquitoes per trap/night: 96.5  
 Average Culex per trap/night: 50.3

### Species collected and abundance:

<i>Aedes dorsalis</i>	22.0	1.9%
<i>Aedes increpitus</i>	10.0	0.9%
<i>Aedes melanimon</i>	22.0	1.9%
<i>Aedes trivittatus</i>	1.0	0.1%
<i>Aedes vexans</i>	448.0	38.7%
<i>Coquilletidia perturbans</i>	25.0	2.2%
<i>Culex pipiens</i>	100.0	8.6%
<i>Culex tarsalis</i>	503.0	43.4%
<i>Culiseta inornata</i>	27.0	2.3%



### Genus Proportions:

Genus	Number	Percent of Total
<i>Aedes/Ochlerotatus</i>	503.0	43.4%
<i>Anopheles</i>	0.0	0.0%
<i>Culex</i>	603.0	52.1%
<i>Culiseta</i>	27.0	2.3%
Other	25.0	2.2%



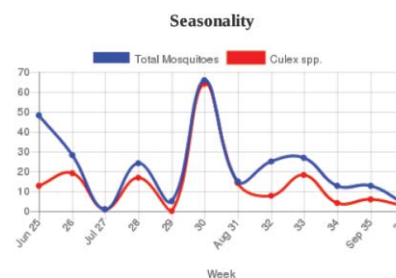
## FC-068

Season: 05/01/2021 - 09/20/2021  
 Trap Type: CDC Light Trap  
 Location: 5029 Crest Dr  
 GPS: 40.516000124446485, -105.08547004312277

Total number of trap/nights set: 12.0  
 Total number of mosquitoes collected: 269.0  
 Average mosquitoes per trap/night: 22.4  
 Average Culex per trap/night: 13.9

### Species collected and abundance:

<i>Aedes dorsalis</i>	3.0	1.1%
<i>Aedes increpitus</i>	5.0	1.9%
<i>Aedes melanimon</i>	2.0	0.7%
<i>Aedes vexans</i>	57.0	21.2%
<i>Anopheles freeborni</i>	25.0	9.3%
<i>Culex pipiens</i>	20.0	7.4%
<i>Culex tarsalis</i>	147.0	54.6%
<i>Culiseta inornata</i>	10.0	3.7%



### Genus Proportions:

Genus	Number	Percent of Total
<i>Aedes/Ochlerotatus</i>	67.0	24.9%
<i>Anopheles</i>	25.0	9.3%
<i>Culex</i>	167.0	62.1%
<i>Culiseta</i>	10.0	3.7%
Other	0.0	0.0%



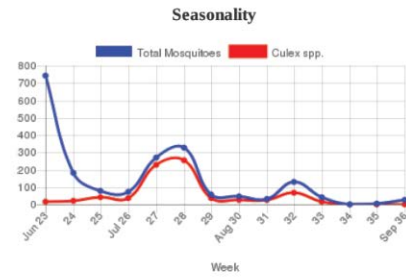
## FC-069

Season: 05/01/2021 - 09/20/2021  
 Trap Type: CDC Light Trap  
 Location: Linden Lake Rd  
 GPS: 40.61451923788414, -105.05314875394106

Total number of trap/nights set: 14.0  
 Total number of mosquitoes collected: 2,025.0  
 Average mosquitoes per trap/night: 144.6  
 Average Culex per trap/night: 55.8

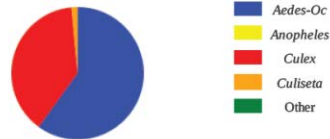
### Species collected and abundance:

<i>Aedes cinereus</i>	1.0	0.0%
<i>Aedes dorsalis</i>	103.0	5.1%
<i>Aedes hendersoni</i>	2.0	0.1%
<i>Aedes increpitus</i>	373.0	18.4%
<i>Aedes melanimon</i>	28.0	1.4%
<i>Aedes vexans</i>	707.0	34.9%
<i>Culex pipiens</i>	17.0	0.8%
<i>Culex tarsalis</i>	764.0	37.7%
<i>Culiseta inornata</i>	30.0	1.5%



### Genus Proportions:

Genus	Number	Percent of Total
<i>Aedes/Ochlerotatus</i>	1,214.0	60.0%
<i>Anopheles</i>	0.0	0.0%
<i>Culex</i>	781.0	38.6%
<i>Culiseta</i>	30.0	1.5%
Other	0.0	0.0%



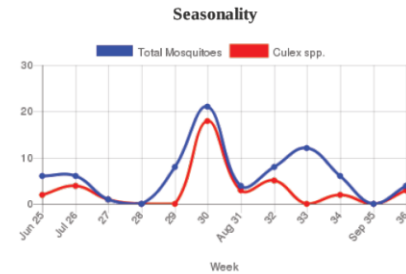
## FC-071

Season: 05/01/2021 - 09/20/2021  
 Trap Type: CDC Light Trap  
 Location: Silvergate Rd  
 GPS: 40.52733008634481, -105.10821014642715

Total number of trap/nights set: 12.0  
 Total number of mosquitoes collected: 76.0  
 Average mosquitoes per trap/night: 6.3  
 Average Culex per trap/night: 3.2

### Species collected and abundance:

<i>Aedes dorsalis</i>	1.0	1.3%
<i>Aedes increpitus</i>	5.0	6.6%
<i>Aedes vexans</i>	30.0	39.5%
<i>Anopheles freeborni</i>	1.0	1.3%
<i>Culex pipiens</i>	6.0	7.9%
<i>Culex tarsalis</i>	32.0	42.1%
<i>Culiseta inornata</i>	1.0	1.3%



### Genus Proportions:

Genus	Number	Percent of Total
<i>Aedes/Ochlerotatus</i>	36.0	47.4%
<i>Anopheles</i>	1.0	1.3%
<i>Culex</i>	38.0	50.0%
<i>Culiseta</i>	1.0	1.3%
Other	0.0	0.0%





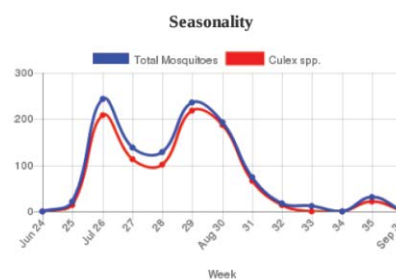
## FC-072

Season: 05/01/2021 - 09/20/2021  
 Trap Type: CDC Light Trap  
 Location: 422 Lake Dr  
 GPS: 40.569530106375986, -105.07116984575985

Total number of trap/nights set: 12.0  
 Total number of mosquitoes collected: 1,095.0  
 Average mosquitoes per trap/night: 91.3  
 Average Culex per trap/night: 79.0

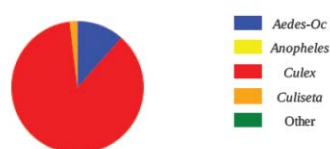
### Species collected and abundance:

<i>Aedes dorsalis</i>	12.0	1.1%
<i>Aedes hendersoni</i>	1.0	0.1%
<i>Aedes melanimon</i>	3.0	0.3%
<i>Aedes vexans</i>	110.0	10.0%
<i>Culex pipiens</i>	121.0	11.1%
<i>Culex tarsalis</i>	827.0	75.5%
<i>Culiseta inornata</i>	21.0	1.9%



### Genus Proportions:

Genus	Number	Percent of Total
<i>Aedes/Ochlerotatus</i>	126.0	11.5%
<i>Anopheles</i>	0.0	0.0%
<i>Culex</i>	948.0	86.6%
<i>Culiseta</i>	21.0	1.9%
Other	0.0	0.0%



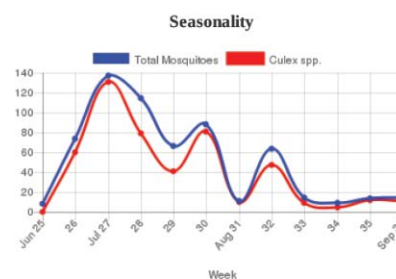
## FC-073

Season: 05/01/2021 - 09/20/2021  
 Trap Type: CDC Light Trap  
 Location: 118 S Grant  
 GPS: 40.58634003233039, -105.08899983018637

Total number of trap/nights set: 12.0  
 Total number of mosquitoes collected: 616.0  
 Average mosquitoes per trap/night: 51.3  
 Average Culex per trap/night: 40.5

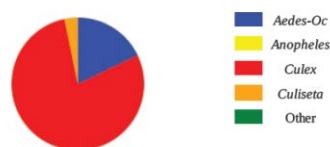
### Species collected and abundance:

<i>Aedes dorsalis</i>	11.0	1.8%
<i>Aedes increpitus</i>	6.0	1.0%
<i>Aedes melanimon</i>	1.0	0.2%
<i>Aedes vexans</i>	92.0	14.9%
<i>Culex pipiens</i>	140.0	22.7%
<i>Culex tarsalis</i>	346.0	56.2%
<i>Culiseta inornata</i>	20.0	3.2%



### Genus Proportions:

Genus	Number	Percent of Total
<i>Aedes/Ochlerotatus</i>	110.0	17.9%
<i>Anopheles</i>	0.0	0.0%
<i>Culex</i>	486.0	78.9%
<i>Culiseta</i>	20.0	3.2%
Other	0.0	0.0%



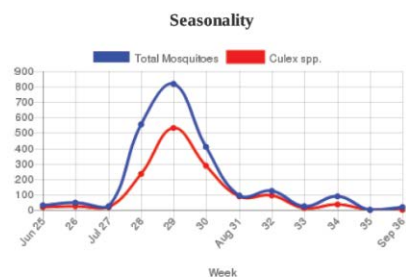
## FC-074

Season: 05/01/2021 - 09/20/2021  
 Trap Type: CDC Light Trap  
 Location: Rock Creek  
 GPS: 40.513749705683445, -105.00338338315488

Total number of trap/nights set: 12.0  
 Total number of mosquitoes collected: 2,241.0  
 Average mosquitoes per trap/night: 186.8  
 Average Culex per trap/night: 112.4

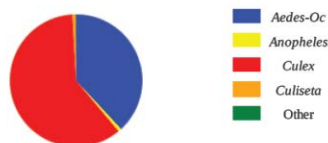
### Species collected and abundance:

<i>Aedes dorsalis</i>	281.0	12.5%
<i>Aedes increpitus</i>	12.0	0.5%
<i>Aedes melanimon</i>	37.0	1.7%
<i>Aedes vexans</i>	524.0	23.4%
<i>Anopheles freeborni</i>	18.0	0.8%
<i>Coquilletidia perturbans</i>	2.0	0.1%
<i>Culex pipiens</i>	76.0	3.4%
<i>Culex tarsalis</i>	1,273.0	56.8%
<i>Culiseta inornata</i>	18.0	0.8%



### Genus Proportions:

Genus	Number	Percent of Total
<i>Aedes/Ochlerotatus</i>	854.0	38.1%
<i>Anopheles</i>	18.0	0.8%
<i>Culex</i>	1,349.0	60.2%
<i>Culiseta</i>	18.0	0.8%
Other	2.0	0.1%



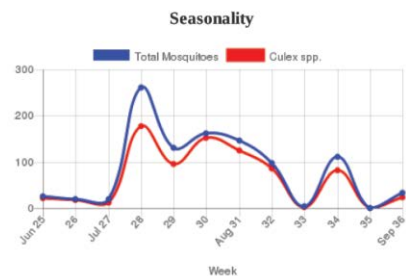
## FC-075

Season: 05/01/2021 - 09/20/2021  
 Trap Type: CDC Light Trap  
 Location: Sage Creek North  
 GPS: 40.511379917024655, -105.01986991614105

Total number of trap/nights set: 12.0  
 Total number of mosquitoes collected: 1,012.0  
 Average mosquitoes per trap/night: 84.3  
 Average Culex per trap/night: 66.2

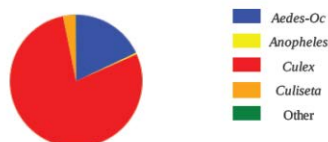
### Species collected and abundance:

<i>Aedes dorsalis</i>	23.0	2.3%
<i>Aedes increpitus</i>	1.0	0.1%
<i>Aedes melanimon</i>	3.0	0.3%
<i>Aedes trivittatus</i>	1.0	0.1%
<i>Aedes vexans</i>	154.0	15.2%
<i>Anopheles freeborni</i>	4.0	0.4%
<i>Coquilletidia perturbans</i>	1.0	0.1%
<i>Culex pipiens</i>	187.0	18.5%
<i>Culex tarsalis</i>	607.0	60.0%
<i>Culiseta inornata</i>	31.0	3.1%



### Genus Proportions:

Genus	Number	Percent of Total
<i>Aedes/Ochlerotatus</i>	182.0	18.0%
<i>Anopheles</i>	4.0	0.4%
<i>Culex</i>	794.0	78.5%
<i>Culiseta</i>	31.0	3.1%
Other	1.0	0.1%



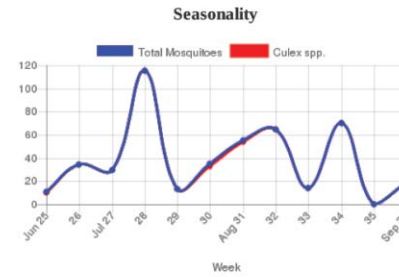
## FC-075gr

Season: 05/01/2021 - 09/20/2021  
 Trap Type: Gravid Trap  
 Location: Sage Creek North Gravid  
 GPS: 40.511379917024655, -105.02936996519566

Total number of trap/nights set: 12.0  
 Total number of mosquitoes collected: 461.0  
 Average mosquitoes per trap/night: 38.4  
 Average Culex per trap/night: 38.1

### Species collected and abundance:

<i>Culex pipiens</i>	456.0	98.9%
<i>Culex tarsalis</i>	1.0	0.2%
<i>Culiseta inornata</i>	4.0	0.9%



### Genus Proportions:

Genus	Number	Percent of Total
<i>Aedes/Ochlerotatus</i>	0.0	0.0%
<i>Anopheles</i>	0.0	0.0%
<i>Culex</i>	457.0	99.1%
<i>Culiseta</i>	4.0	0.9%
Other	0.0	0.0%



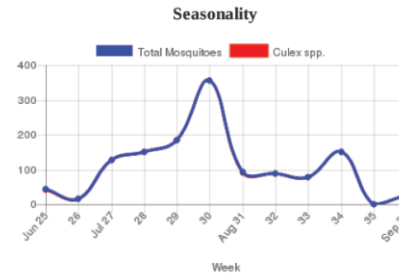
## FC-088gr

Season: 05/01/2021 - 09/20/2021  
 Trap Type: Gravid Trap  
 Location: English Ranch Park Gravid  
 GPS: 40.53330994364783, -105.0305300205946

Total number of trap/nights set: 12.0  
 Total number of mosquitoes collected: 1,317.0  
 Average mosquitoes per trap/night: 109.8  
 Average Culex per trap/night: 109.3

### Species collected and abundance:

<i>Aedes vexans</i>	3.0	0.2%
<i>Culex pipiens</i>	1,311.0	99.5%
<i>Culiseta inornata</i>	3.0	0.2%



### Genus Proportions:

Genus	Number	Percent of Total
<i>Aedes/Ochlerotatus</i>	3.0	0.2%
<i>Anopheles</i>	0.0	0.0%
<i>Culex</i>	1,311.0	99.5%
<i>Culiseta</i>	3.0	0.2%
Other	0.0	0.0%



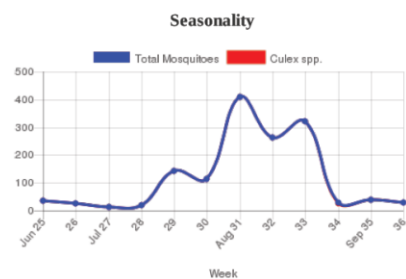
## FC-089gr

Season: 05/01/2021 - 09/20/2021  
 Trap Type: Gravid Trap  
 Location: Kunz Ct. and Brook Dr. Gravid  
 GPS: 40.53631011931944, -105.10056015104055

Total number of trap/nights set: 12.0  
 Total number of mosquitoes collected: 1,440.0  
 Average mosquitoes per trap/night: 120.0  
 Average Culex per trap/night: 119.7

### Species collected and abundance:

<i>Anopheles freeborni</i>	4.0	0.3%
<i>Culex pipiens</i>	1,435.0	99.7%
<i>Culex tarsalis</i>	1.0	0.1%



### Genus Proportions:

Genus	Number	Percent of Total
<i>Aedes/Ochlerotatus</i>	0.0	0.0%
<i>Anopheles</i>	4.0	0.3%
<i>Culex</i>	1,436.0	99.7%
<i>Culiseta</i>	0.0	0.0%
Other	0.0	0.0%



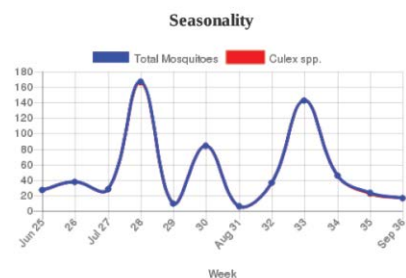
## FC-090gr

Season: 05/01/2021 - 09/20/2021  
 Trap Type: Gravid Trap  
 Location: Mountain Grandview Cemetery Gravid  
 GPS: 40.58195995773713, -105.111360065639

Total number of trap/nights set: 12.0  
 Total number of mosquitoes collected: 624.0  
 Average mosquitoes per trap/night: 52.0  
 Average Culex per trap/night: 51.8

### Species collected and abundance:

<i>Aedes vexans</i>	2.0	0.3%
<i>Culex pipiens</i>	620.0	99.4%
<i>Culex tarsalis</i>	2.0	0.3%



### Genus Proportions:

Genus	Number	Percent of Total
<i>Aedes/Ochlerotatus</i>	2.0	0.3%
<i>Anopheles</i>	0.0	0.0%
<i>Culex</i>	622.0	99.7%
<i>Culiseta</i>	0.0	0.0%
Other	0.0	0.0%



## FC-091gr

Season: 05/01/2021 - 09/20/2021

Trap Type: Gravid Trap

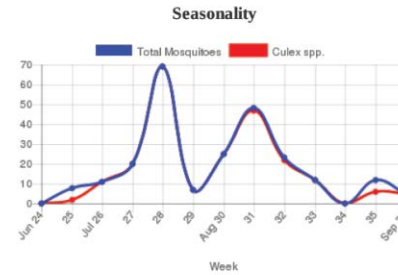
Location: PVH Gravid

GPS: 40.570520046200166, -105.05456998944281

Total number of trap/nights set: 12.0  
Total number of mosquitoes collected: 240.0  
Average mosquitoes per trap/night: 20.0  
Average Culex per trap/night: 18.8

### Species collected and abundance:

<i>Aedes vexans</i>	2.0	0.8%
<i>Anopheles freeborni</i>	7.0	2.9%
<i>Coquillettidia perturbans</i>	4.0	1.7%
<i>Culex pipiens</i>	222.0	92.5%
<i>Culex tarsalis</i>	4.0	1.7%
<i>Culiseta inornata</i>	1.0	0.4%



### Genus Proportions:

Genus	Number	Percent of Total
<i>Aedes/Ochlerotatus</i>	2.0	0.8%
<i>Anopheles</i>	7.0	2.9%
<i>Culex</i>	226.0	94.2%
<i>Culiseta</i>	1.0	0.4%
Other	4.0	1.7%



## FC-092gr

Season: 05/01/2021 - 09/20/2021

Trap Type: Gravid Trap

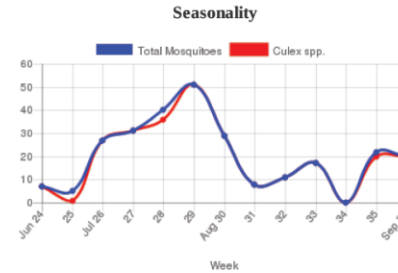
Location: Udall Natural Gravid

GPS: 40.587873321668276, -105.06916154175995

Total number of trap/nights set: 12.0  
Total number of mosquitoes collected: 268.0  
Average mosquitoes per trap/night: 22.3  
Average Culex per trap/night: 21.5

### Species collected and abundance:

<i>Aedes dorsalis</i>	1.0	0.4%
<i>Aedes vexans</i>	4.0	1.5%
<i>Anopheles freeborni</i>	3.0	1.1%
<i>Coquillettidia perturbans</i>	2.0	0.7%
<i>Culex pipiens</i>	253.0	94.4%
<i>Culex tarsalis</i>	5.0	1.9%



### Genus Proportions:

Genus	Number	Percent of Total
<i>Aedes/Ochlerotatus</i>	5.0	1.9%
<i>Anopheles</i>	3.0	1.1%
<i>Culex</i>	258.0	96.3%
<i>Culiseta</i>	0.0	0.0%
Other	2.0	0.7%



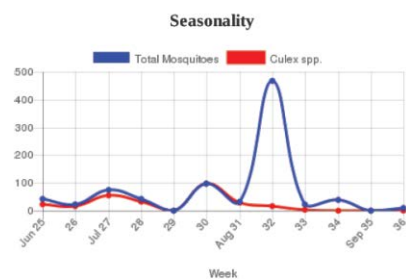
## FC-093

Season: 05/01/2021 - 09/20/2021  
 Trap Type: CDC Light Trap  
 Location: Lopez Elementary  
 GPS: 40.53186000594886, -105.0882501527667

Total number of trap/nights set: 12.0  
 Total number of mosquitoes collected: 855.0  
 Average mosquitoes per trap/night: 71.3  
 Average Culex per trap/night: 23.4

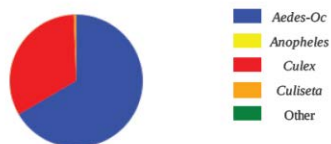
### Species collected and abundance:

<i>Aedes dorsalis</i>	4.0	0.5%
<i>Aedes increpitus</i>	4.0	0.5%
<i>Aedes vexans</i>	561.0	65.6%
<i>Culex pipiens</i>	40.0	4.7%
<i>Culex tarsalis</i>	241.0	28.2%
<i>Culiseta inornata</i>	5.0	0.6%



### Genus Proportions:

Genus	Number	Percent of Total
<i>Aedes/Ochlerotatus</i>	569.0	66.5%
<i>Anopheles</i>	0.0	0.0%
<i>Culex</i>	281.0	32.9%
<i>Culiseta</i>	5.0	0.6%
Other	0.0	0.0%





## *Appendix 2: Larimer County Adult Sample Pool Positive Results and Locations*



### **2021 WNV Positive Pools**

**Start Date:** 05/01/2021    **End Date:** 09/20/2021

#### **Loveland**

<b>Trap Location</b>	<b>Total Positive Pools</b>
9th and DesMoines	5
Big Thompson	0
Boyd Lake	1
Cattail Pond	4
Cr 20 and 9	1
Horseshoe Penninsula	4

**Total Positive: 15**



### **2021 WNV Positive Pools**

**Start Date:** 05/01/2021    **End Date:** 09/20/2021

#### **Berthoud**

<b>Trap Location</b>	<b>Total Positive Pools</b>
Berthoud East	0
Berthoud North	1
Berthoud Park	2
Berthoud Point	2
Berthoud West	4

**Total Positive: 9**



## 2021 WNV Positive Pools

Start Date: 05/01/2021    End Date: 09/20/2021

### Fort Collins

Trap Location	Total Positive Pools
118 S Grant	0
3001 San Luis	4
422 Lake Dr	0
5029 Crest Dr	1
603 Gilgalad Way	1
737 Parliament	1
808 Ponderosa	2
Ben's Park	1
Ben's Park Gravid	11
Big Horn	2
Boltz	0
Casa Grande and Downing	0
Chelsea Ridge	1
Country Club	3
Edora Park	0
Egret and Rookery	1
English Ranch Park Gravid	7
FC Visitor Center	3
Fishback	0
Fossil Creek South	2
Golden Current	1
Golden Meadows Ditch	2
Hemlock	1
Holley Plant Research Center	0
Keeneland And Twin Oak	0
Kunz Ct. and Brook Dr. Gravid	10
Linden Lake Rd	1
Lochside Lane	2
Lopez Elementary	1
Magic Carpet	2
Mountain Grandview Cemetery Gravid	3
N. Linden	1
Poudre River Trail	0

Trap Location	Total Positive Pools
Prospect Ponds	2
Prospect Ponds Gravid	1
PVH Gravid	1
Red Fox Meadows	0
Red Fox Meadows Gravid	6
Redwood	1
Redwood Gravid	4
Registry Ridge	0
Rock Creek	4
Sage Creek North	3
Sage Creek North Gravid	4
Silvergate Rd	0
Spring Creek Trail-- Michener Dr	0
Springwood and Lochwood	0
Stuart and Dorset	0
Udall Natural Gravid	1
Water's Edge at Blue Mesa	1
West Chase	2
Westshore Ct	3
Willow Springs	1

**Total Positive: 98**

## Appendix 3: Ground Adult Mosquito Control Application Data

### Ground Adulticide Applications



Start Date: 05/01/2021    End Date: 09/20/2021

*Fort Collins*

Month	Date	Municipality	Chemical	Mix Ratio	Trip Miles	Spray Miles	Spray Acres	Gallons Sprayed
<b>FC1_0821 Applications</b>								
August 2021	08/12/2021		Aqua Perm-X UL 30-30 (89459-76)	1:5	21.1	14.1	510.9	3.9
	08/12/2021		Aqua Perm-X UL 30-30 (89459-76)	1:5	14.9	10.8	392.0	3.0
	08/15/2021		Aqua Perm-X UL 30-30 (89459-76)	1:5	16.5	10.9	395.2	5.0
September 2021	09/09/2021		Aqua Perm-X UL 30-30 (89459-76)	1:5	14.8	11.2	406.5	3.1
	09/09/2021		Aqua Perm-X UL 30-30 (89459-76)	1:5	19.8	13.1	477.8	3.6
	09/12/2021		Aqua Perm-X UL 30-30 (89459-76)	1:4	19.9	12.4	452.0	3.6
	09/12/2021		Aqua Perm-X UL 30-30 (89459-76)	1:4	13.4	9.1	332.0	2.7
<i>Total Aqua Perm-X UL 30-30 Applied:</i>								<i>24.9</i>
<i>FC1_0821 Totals:</i>					<i>120.4</i>	<i>81.6</i>	<i>2,966.2</i>	<i>24.9</i>
<b>FC2_0821 Applications</b>								
August 2021	08/15/2021		Aqua Perm-X UL 30-30 (89459-76)	1:5	20.4	13.8	503.2	6.8
September 2021	09/09/2021		Aqua Perm-X UL 30-30 (89459-76)	1:5	25.0	17.2	623.6	4.8
	09/12/2021		Aqua Perm-X UL 30-30 (89459-76)	1:4	23.4	18.2	660.3	5.2
<i>Total Aqua Perm-X UL 30-30 Applied:</i>								<i>16.8</i>
<i>FC2_0821 Totals:</i>					<i>68.7</i>	<i>49.2</i>	<i>1,787.1</i>	<i>16.8</i>
<b>FC3_0821 Applications</b>								
August 2021	08/12/2021		Aqua Perm-X UL 30-30 (89459-76)	1:5	17.5	12.6	457.8	3.6
	08/12/2021		Aqua Perm-X UL 30-30 (89459-76)	1:5	13.7	11.1	404.3	3.1
	08/15/2021		Aqua Perm-X UL 30-30 (89459-76)	1:5	14.1	11.7	424.7	3.3
	08/15/2021		Aqua Perm-X UL 30-30 (89459-76)	1:4	17.1	14.6	531.6	4.2
September 2021	09/09/2021		Aqua Perm-X UL 30-30 (89459-76)	1:5	17.2	13.4	485.8	3.7
	09/12/2021		Aqua Perm-X UL 30-30 (89459-76)	1:4	16.6	14.3	518.1	4.1
<i>Total Aqua Perm-X UL 30-30 Applied:</i>								<i>22.1</i>
<i>FC3_0821 Totals:</i>					<i>96.1</i>	<i>77.6</i>	<i>2,822.3</i>	<i>22.1</i>

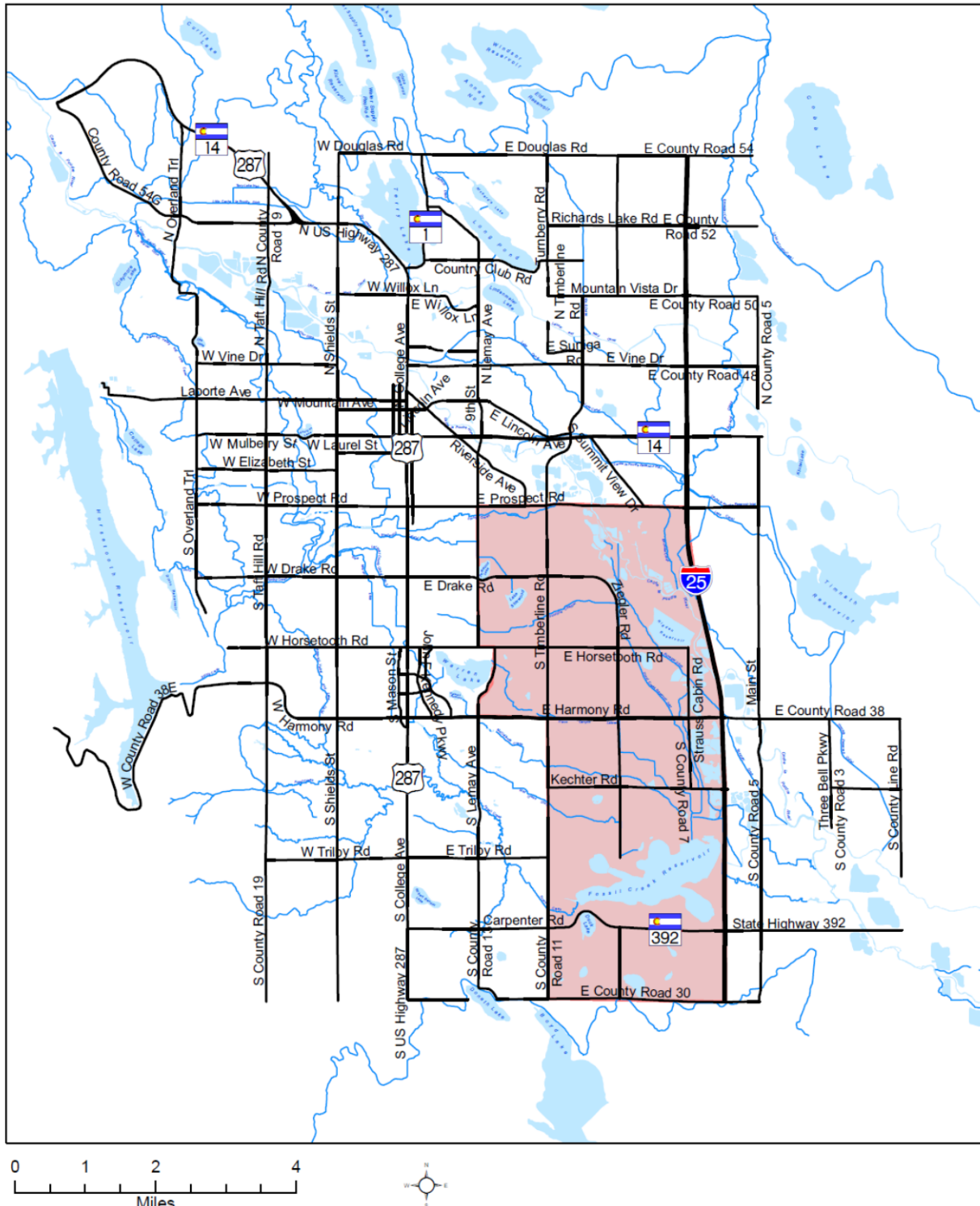
Month	Date	Municipality	Chemical	Mix Ratio	Trip Miles	Spray Miles	Spray Acres	Gallons Sprayed
FC4_0821 Applications								
August 2021	08/12/2021		Aqua Perm-X UL 30-30 (89459-76)	1:5	8.1	5.9	214.2	1.6
	08/12/2021		Aqua Perm-X UL 30-30 (89459-76)	1:5	22.8	12.2	444.0	3.5
	08/12/2021		Aqua Perm-X UL 30-30 (89459-76)	1:5	4.9	3.8	137.8	1.0
	08/15/2021		Aqua Perm-X UL 30-30 (89459-76)	1:5	7.9	5.6	202.9	1.5
	08/15/2021		Aqua Perm-X UL 30-30 (89459-76)	1:5	22.6	14.7	534.9	4.1
	08/15/2021		Aqua Perm-X UL 30-30 (89459-76)	1:5	4.6	3.6	130.9	1.0
September 2021	09/09/2021		Aqua Perm-X UL 30-30 (89459-76)	1:5	23.5	14.0	509.8	3.9
	09/09/2021		Aqua Perm-X UL 30-30 (89459-76)	1:5	8.2	5.7	206.9	1.6
	09/12/2021		Aqua Perm-X UL 30-30 (89459-76)	1:5	23.5	15.8	574.1	4.4
	09/12/2021		Aqua Perm-X UL 30-30 (89459-76)	1:5	8.5	6.3	228.0	1.8
Total Aqua Perm-X UL 30-30 Applied:								24.4
FC4_0821 Totals:					134.7	87.6	3,183.3	24.4
FC5_0821 Applications								
August 2021	08/12/2021		Aqua Perm-X UL 30-30 (89459-76)	1:5	20.8	14.9	540.7	4.1
	08/15/2021		Aqua Perm-X UL 30-30 (89459-76)	1:5	20.2	16.0	581.4	4.6
Total Aqua Perm-X UL 30-30 Applied:								8.7
FC5_0821 Totals:					41.0	30.9	1,122.1	8.7
FC6_0821 Applications								
August 2021	08/12/2021		Aqua Perm-X UL 30-30 (89459-76)	1:5	20.7	16.0	581.0	4.5
	08/12/2021		Aqua Perm-X UL 30-30 (89459-76)	1:5	12.9	10.2	369.1	2.9
	08/12/2021		Aqua Perm-X UL 30-30 (89459-76)	1:5	17.4	13.0	474.1	3.7
	08/15/2021		Aqua Perm-X UL 30-30 (89459-76)	1:5	13.0	10.5	380.0	2.9
	08/15/2021		Aqua Perm-X UL 30-30 (89459-76)	1:5	20.0	15.9	576.7	4.4
	08/15/2021		Aqua Perm-X UL 30-30 (89459-76)	1:5	16.8	13.4	488.3	3.8
Total Aqua Perm-X UL 30-30 Applied:								22.1
FC6_0821 Totals:					100.8	78.9	2,869.2	22.1

Month	Date	Municipality	Chemical	Mix Ratio	Trip Miles	Spray Miles	Spray Acres	Gallons Sprayed
<b>FC_Spray_07 Applications</b>								
August 2021	08/29/2021		Aqua Perm-X UL 30-30 (89459-76)	1:5	7.0	5.1	186.5	1.5
	08/29/2021		Aqua Perm-X UL 30-30 (89459-76)	1:5	29.0	19.6	713.4	5.5
	08/29/2021		Aqua Perm-X UL 30-30 (89459-76)	1:5	10.3	7.1	258.9	2.0
	08/29/2021		Aqua Perm-X UL 30-30 (89459-76)	1:5	5.3	3.9	141.4	1.1
	08/29/2021		Aqua Perm-X UL 30-30 (89459-76)	1:5	6.4	4.4	160.7	1.2
	08/29/2021		Aqua Perm-X UL 30-30 (89459-76)	1:5	9.0	5.3	191.6	1.5
	08/29/2021		Aqua Perm-X UL 30-30 (89459-76)	1:5	12.9	8.5	309.1	2.4
<i>Total Aqua Perm-X UL 30-30 Applied:</i>								<i>15.1</i>
<i>FC_Spray_07 Totals:</i>					<i>79.9</i>	<i>54.0</i>	<i>1,961.6</i>	<i>15.1</i>
<b>LC1_0821 Applications</b>								
August 2021	08/12/2021		Aqua Perm-X UL 30-30 (89459-76)	1:5	23.9	16.9	612.7	4.7
	08/16/2021		Aqua Perm-X UL 30-30 (89459-76)	1:5	15.8	12.5	454.5	3.5
	08/16/2021		Aqua Perm-X UL 30-30 (89459-76)	1:5	2.5	2.5	89.8	0.7
<i>Total Aqua Perm-X UL 30-30 Applied:</i>								<i>8.9</i>
<i>LC1_0821 Totals:</i>					<i>42.2</i>	<i>31.8</i>	<i>1,157.0</i>	<i>8.9</i>
<b>LC_Spray_01 Applications</b>								
August 2021	08/29/2021	N/A	Aqua Perm-X UL 30-30 (89459-76)	1:5	21.1	14.0	508.0	3.9
	08/29/2021	N/A	Aqua Perm-X UL 30-30 (89459-76)	1:5	19.7	14.2	517.8	4.0
	08/29/2021	N/A	Aqua Perm-X UL 30-30 (89459-76)	1:5	18.3	11.2	407.2	3.2
	08/29/2021	N/A	Aqua Perm-X UL 30-30 (89459-76)	1:5	9.3	7.8	282.2	2.2
	08/29/2021	N/A	Aqua Perm-X UL 30-30 (89459-76)	1:5	3.4	2.4	86.5	0.7
<i>Total Aqua Perm-X UL 30-30 Applied:</i>								<i>14.0</i>
<i>LC_Spray_01 Totals:</i>					<i>71.7</i>	<i>49.6</i>	<i>1,801.6</i>	<i>14.0</i>
<i>Grand Totals:</i>					<i>755.5</i>	<i>541.0</i>	<i>19,670.4</i>	<i>157.0</i>

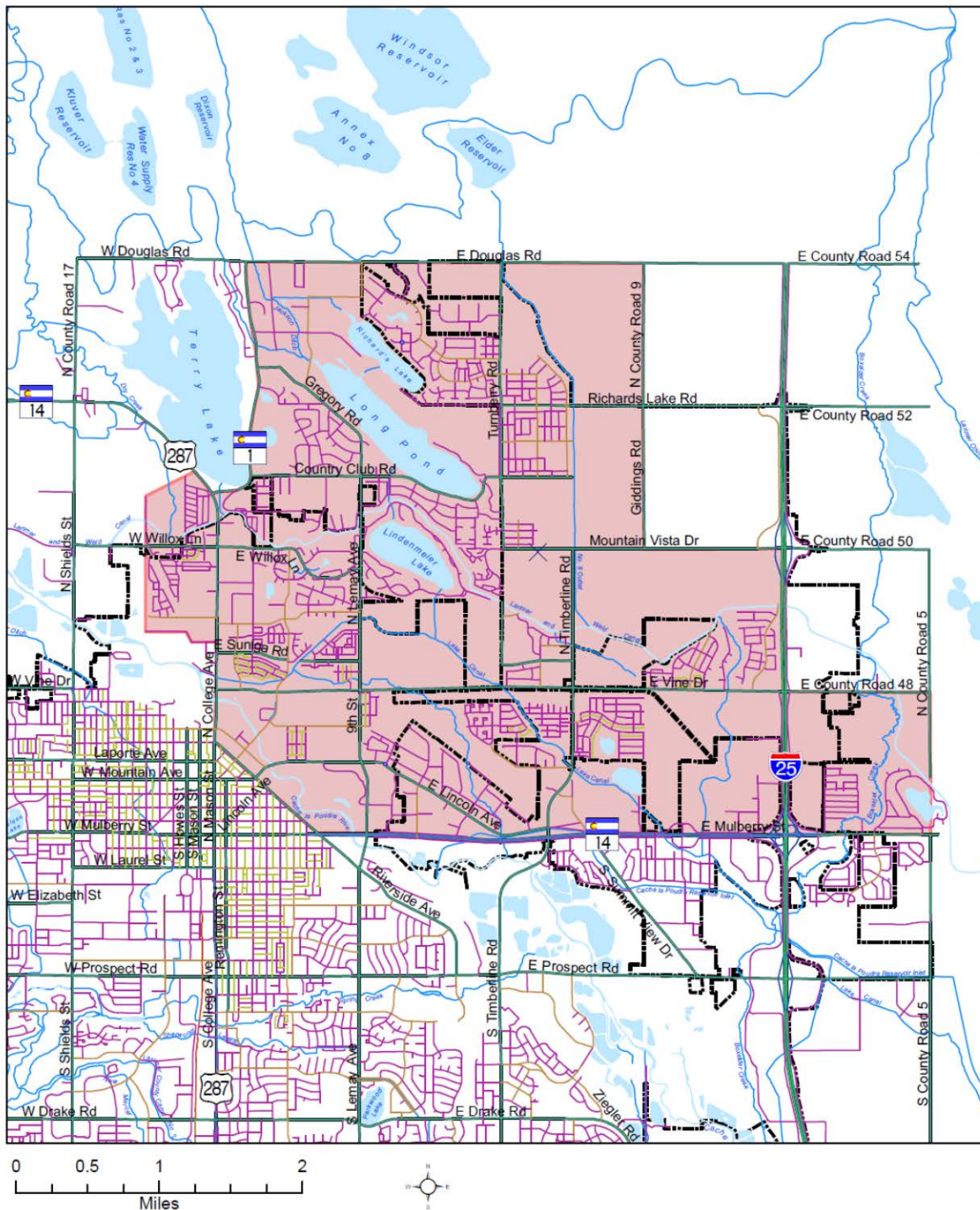


## Appendix 4: Scheduled Emergency Application Maps

### West Nile Virus Spray Location August 12, and August 15, 2021



## West Nile Virus Spray Location August 26, and August 29, 2021



***\*\*Please note that no application occurred on August 26<sup>th</sup>***



# West Nile Virus Spray Location September 9, and September 12, 2021

