2023 Annual Report
City of Fort Collins
Mosquito Control Program

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City of Fort Collins
Mosquito Management Operations

Annual Report For 2023

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Program Objectives

Vector Disease Control International, LLC (VDCI) completed its 20th year of cost-effective Integrated Mosquito Management (IMM) for Fort Collins in 2023. 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 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.

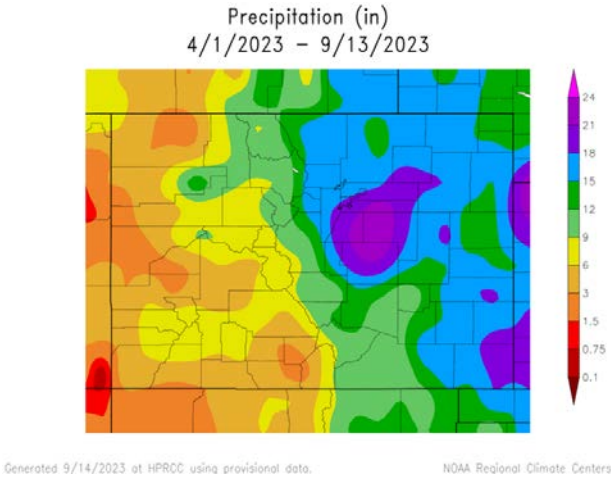
VDCI's Commitment

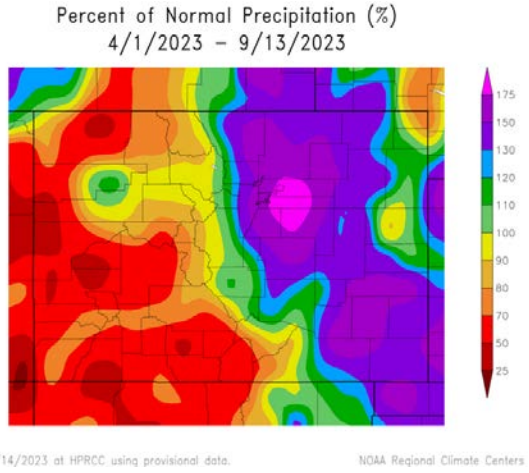
Vector Disease Control International is a company built on the foundations of public health, ethics, professionalism, and technical expertise. VDCI is committed to providing our customers with scientifically based, environmentally sensitive and technologically advanced Integrated Mosquito Management (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.

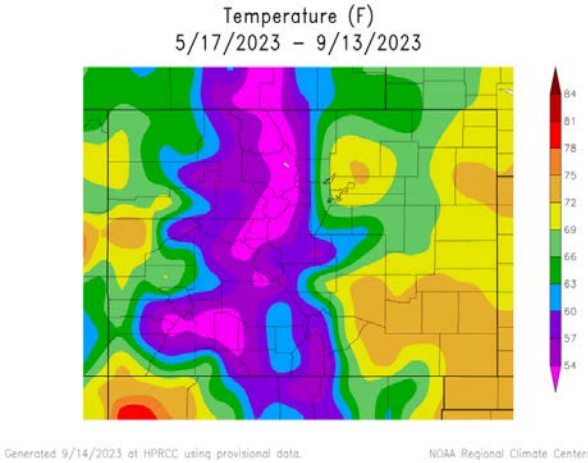
2023 Season Perspective

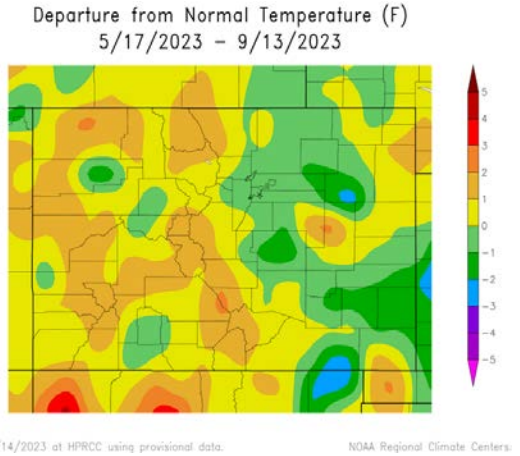
At VDCI we have come to expect each Colorado summer to present a unique set of temperature, precipitation, irrigation, and human interactions that combine to create new and different challenges in both mosquito control and mosquito-borne disease proliferation. 2023 posed a significant challenge that directly impacts the abundance of mosquito, excessive precipitation. Both Larimer and Weld counties both received upwards of 18 inches of rain this spring/summer. The amount of precipitation was historic, which unfortunately proved to provide breeding ground to a historic amount of mosquitoes.





The temperature during the summer of 2023, was slightly cooler than normal. This change was welcome to all who have spent any time outdoors the past few summer in Colorado, however the change was not remarkable enough the see a significant effect on mosquito proliferation. This season, we observed a peak of Culex activity around weeks 28-29 (mid-July). In some areas observed Culex numbers during the peak weeks were 8-10x higher than average. A steep decline in Culex abundance followed the peak weeks, and population number hovered closer to historical averages by week 31 (early August).

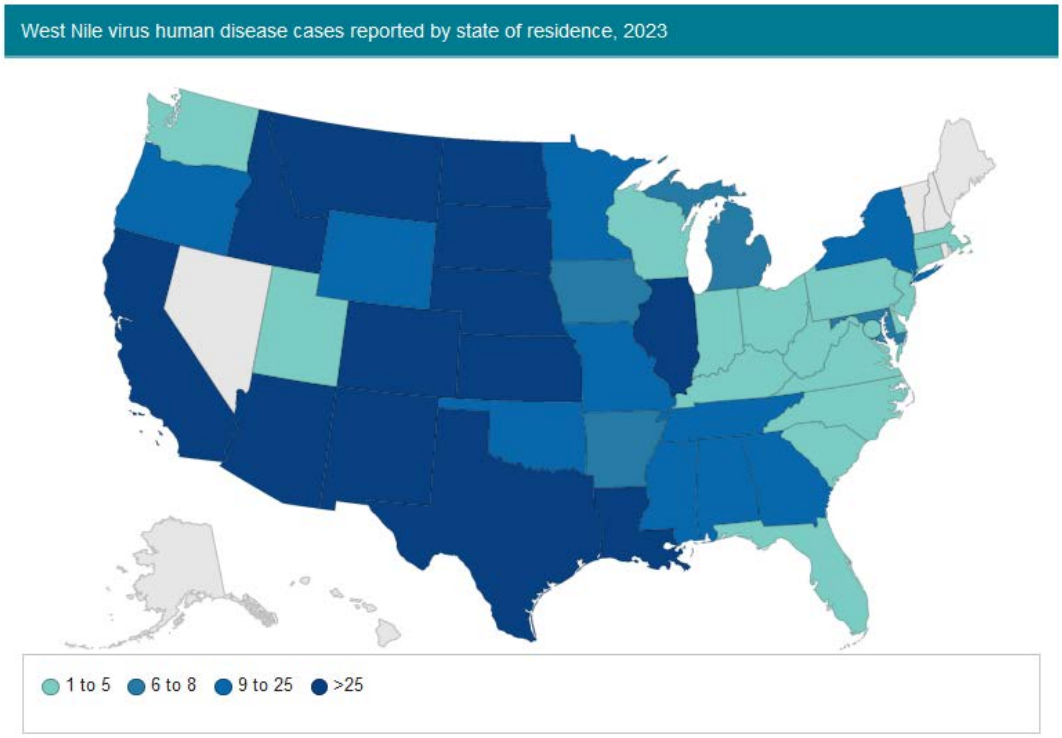


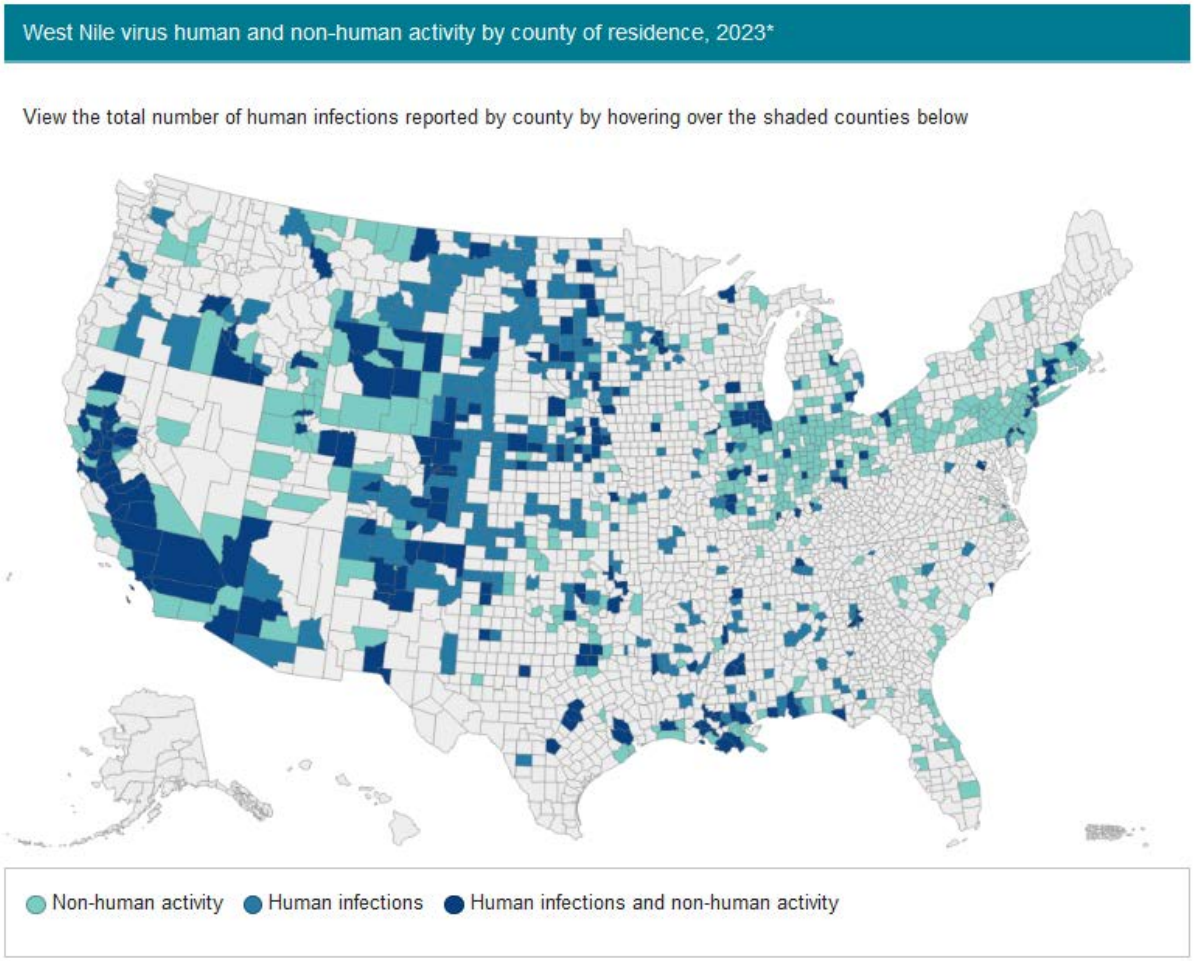


West Nile Virus Season

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 26th, 2023, a total of 44 states and the District of Columbia have reported West Nile virus infections in people, birds, or mosquitoes. Overall, 1,419 cases of West Nile virus disease in people have been reported to CDC. Of these, 923 (65%) were classified as neuroinvasive disease (such as meningitis or encephalitis) and 496 (35%) were classified as non-neuroinvasive disease.

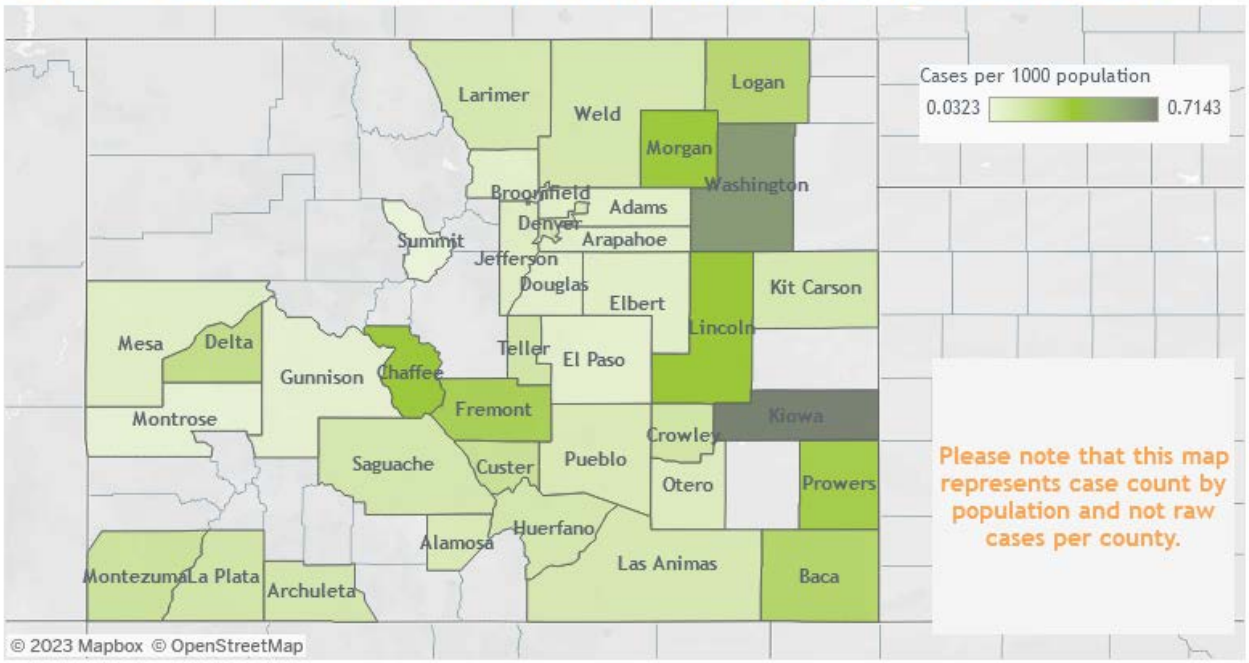




Colorado 2023

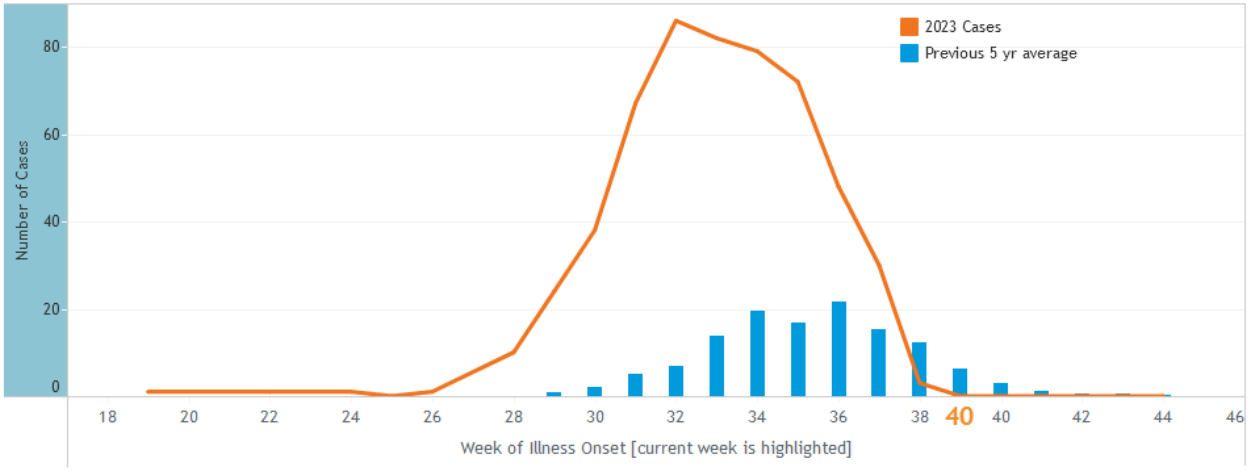
As of October 2nd, 2023 The Colorado Department of Health and Environment reports a total of 543 human cases of West Nile virus infection from the state of Colorado. Thirty-eight counties across the state of Colorado have reported human West Nile virus infection. In Northern Colorado, 49 human cases are reported from Larimer County, and 45 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 any additional cases reported by CDPHE will also be reported to the Centers for Disease Control.

People affected by West Nile virus per 1000 population by county of residence, 2023



People affected: 543	Affected people who died: 31	Affected people with neurologic symptoms: 279	Affected people requiring hospitalization: 332

Number of people affected by West Nile virus in Colorado, 2023



Larval Mosquito Control

Larval mosquito control is the foundation of the 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 30th. Field training by VDCI management and veteran employees lasted through May and full-time field activities were in full force by early June.

In 2023, Vector Disease Control field technicians performed 5,467 larval site inspections, of which 4,545 (83.1%) were wet upon inspection, 2,649 (58.3% of wet sites) were producing mosquito larvae. To prevent these larvae from emerging as adult mosquitoes, VDCI applied 10,402.8 lbs. of VectoBac (Bti) and 21.9 gal of BVA 2 mineral oil to 2,771.7 acres of land.

During 2023, VDCI technicians performed site inspections at 36 residences as part of our backyard inspection program. VDCI also performed treatments at approximately 620 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_2, 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 2023, 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 2023, there were 786 CDC light surveillance traps set within Fort Collins, which collected a total of 161,037 mosquitoes. This year there was an average of 204.9 mosquitoes caught per trap per night and an average 79.1 *Culex* mosquitoes per trap per night. The composition of mosquitoes collected was 38.6% (62,209) *Culex spp.,* 60.0% (96,679) *Aedes/Ochlerotatus spp.,* 0.9% (1,469) *Culiseta spp.*, and 0.1% (127) *Anopheles spp.*

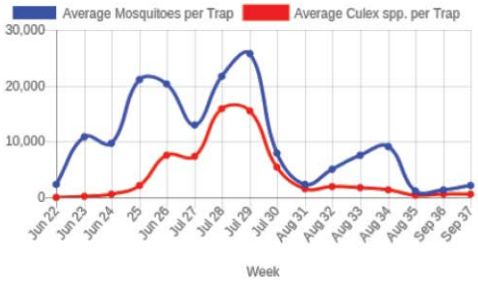
2023 Fort Collins Trap Composite Data

Total number of trap/nights set:	786
Total number of mosquitoes collected:	161,037.0
Average mosquitoes per trap/night:	204.9
Average Culex per trap/night:	79.1

Species collected and abundance:

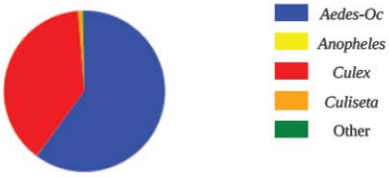
Aedes cinereus	185.0	0.1%
Aedes dorsalis	8,851.0	5.5%
Aedes hendersoni	23.0	0.0%
Aedes increpitus	13,662.0	8.5%
Aedes melanimon	4,810.0	3.0%
Aedes nigromaculis	9.0	0.0%
Aedes trivittatus	76.0	0.0%
Aedes vexans	69,063.0	42.9%
Anopheles freeborni	127.0	0.1%
Coquillettidia perturbans	553.0	0.3%
Culex pipiens	9,016.0	5.6%
Culex tarsalis	53,193.0	33.0%
Culiseta inornata	1,469.0	0.9%
Trap Stolen	0.0	0.0%

Seasonality



Genus Proportions:

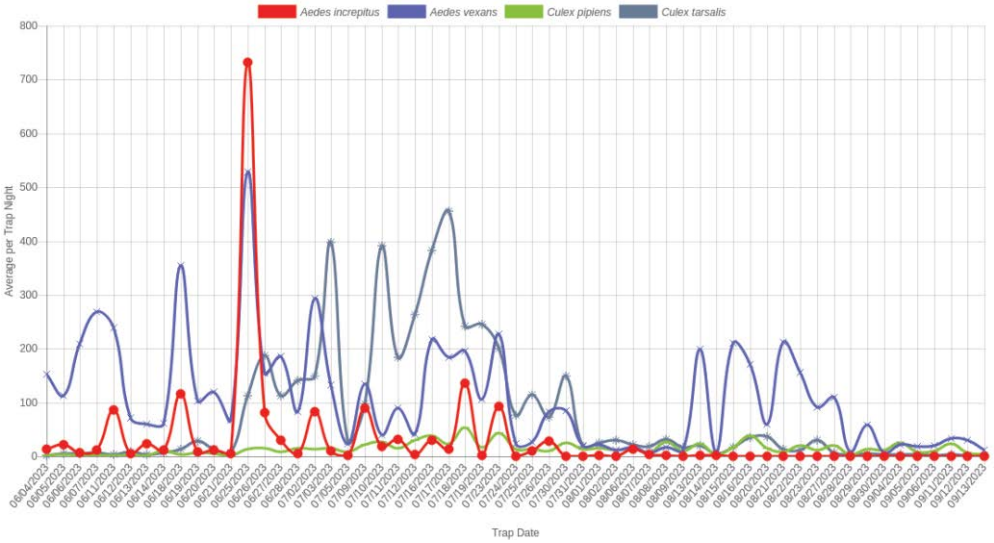
Genus	Number	Percent of Total
Aedes/Ochlerotatus	96,679	60.0%
Anopheles	127	0.1%
Culex	62,209	38.6%
Culiseta	1,469	0.9%
Other	553	0.3%



Adult Mosquito Surveillance Summary

Start Date: 04/01/2023 **End Date:** 09/22/2023

Fort Collins



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 20th, 2023 Colorado State University's Department of Microbiology, Immunology and Pathology, has tested a total of 2,580 mosquito pools from Larimer County. A total of 226 mosquito pool samples have tested positive for WNv with 17 of those being collected from Berthoud, 23 from Loveland and 186 from 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 2023 season a total of 919.48 miles of roads and access paths within Fort Collins were fogged using Aqua Perm-X UL 3030.

Please see Appendix 3 for Ground Adulticide Application Data

VDCI was also privately contracted to perform adult mosquito control for Greenstone HOA, Lindenwood HOA, and Willow Springs HOA, during the 2023 season. A total of 49.09 miles within these neighborhoods were sprayed via ground based vehicles with Ultra Low Volume (ULV) Aqua Perm-X mosquito adulticides to reduce adult mosquito populations.

In response to elevated West Nile virus activity in 2023 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 July 23rd, July 30th, August 6th, August 13th, August 20th, and August 27th.

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 26 phone calls from Fort Collins residents in 2023. VDCI received 11 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 7 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. VDCI received 8 calls in regards to applications that were scheduled or had recently been completed. These calls generally requested information about the applications and the products used in the applications.

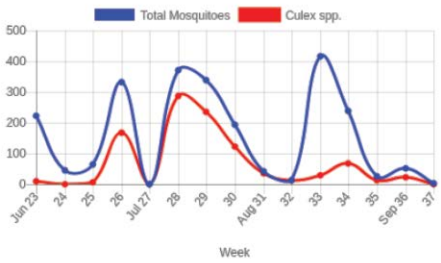
Appendix 1: Individual Light Trap Summaries

FC-001

Season: 04/01/2023 - 09/22/2023
Trap Type: CDC Light Trap
Location: Magic Carpet
GPS: 40.49087011315602, -105.08256990462542

Total number of trap/nights set:	15.0
Total number of mosquitoes collected:	2,353.0
Average mosquitoes per trap/night:	156.9
Average Culex per trap/night:	66.7

Seasonality

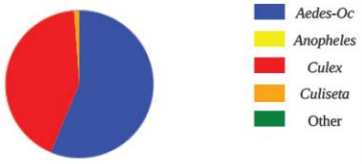


Species collected and abundance:

Aedes cinereus	2.0	0.1%
Aedes dorsalis	120.0	5.1%
Aedes increpitus	18.0	0.8%
Aedes melanimon	28.0	1.2%
Aedes vexans	1,157.0	49.2%
Culex pipiens	108.0	4.6%
Culex tarsalis	893.0	38.0%
Culiseta inornata	27.0	1.1%

Genus Proportions:

Genus	Number	Percent of Total
Aedes/Ochlerotatus	1,325.0	56.3%
Anopheles	0.0	0.0%
Culex	1,001.0	42.5%
Culiseta	27.0	1.1%
Other	0.0	0.0%

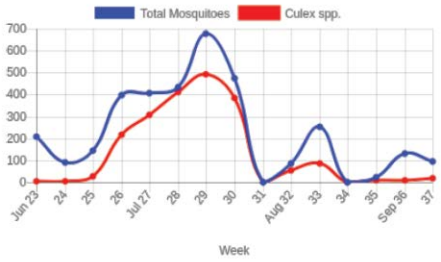


FC-004

Season: 04/01/2023 - 09/22/2023
Trap Type: CDC Light Trap
Location: Big Horn
GPS: 40.53498867239214, -105.03751885145903

Total number of trap/nights set:	15.0
Total number of mosquitoes collected:	3,426.0
Average mosquitoes per trap/night:	228.4
Average Culex per trap/night:	134.7

Seasonality

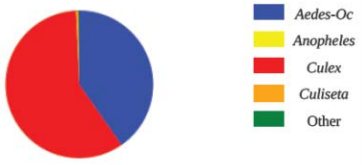


Species collected and abundance:

Aedes cinereus	1.0	0.0%
Aedes dorsalis	266.0	7.8%
Aedes increpitus	4.0	0.1%
Aedes melanimon	52.0	1.5%
Aedes nigromaculis	2.0	0.1%
Aedes vexans	1,055.0	30.8%
Coquillettidia perturbans	7.0	0.2%
Culex pipiens	107.0	3.1%
Culex tarsalis	1,914.0	55.9%
Culiseta inornata	18.0	0.5%

Genus Proportions:

Genus	Number	Percent of Total
Aedes/Ochlerotatus	1,380.0	40.3%
Anopheles	0.0	0.0%
Culex	2,021.0	59.0%
Culiseta	18.0	0.5%
Other	7.0	0.2%

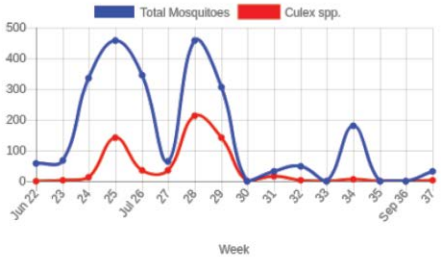


FC-006

Season: 04/01/2023 - 09/22/2023
Trap Type: CDC Light Trap
Location: N. Linden
GPS: 40.592327859908366, -105.06629493087529

Total number of trap/nights set:	15.0
Total number of mosquitoes collected:	2,388.0
Average mosquitoes per trap/night:	159.2
Average Culex per trap/night:	40.6

Seasonality

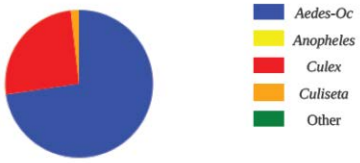


Species collected and abundance:

Aedes dorsalis	87.0	3.6%
Aedes increpitus	38.0	1.6%
Aedes melanimon	41.0	1.7%
Aedes trivittatus	4.0	0.2%
Aedes vexans	1,565.0	65.5%
Anopheles freeborni	1.0	0.0%
Culex pipiens	67.0	2.8%
Culex tarsalis	542.0	22.7%
Culiseta inornata	43.0	1.8%

Genus Proportions:

Genus	Number	Percent of Total
Aedes/Ochlerotatus	1,735.0	72.7%
Anopheles	1.0	0.0%
Culex	609.0	25.5%
Culiseta	43.0	1.8%
Other	0.0	0.0%

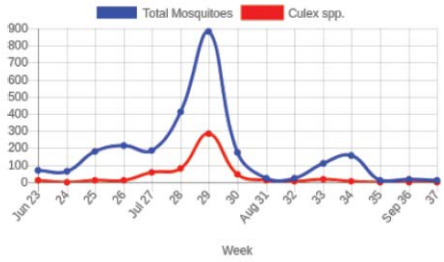


FC-011

Season: 04/01/2023 - 09/22/2023
Trap Type: CDC Light Trap
Location: Golden Current
GPS: 40.56947993409379, -105.13603001832962

Total number of trap/nights set:	15.0
Total number of mosquitoes collected:	2,523.0
Average mosquitoes per trap/night:	168.2
Average Culex per trap/night:	35.9

Seasonality

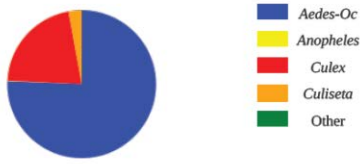


Species collected and abundance:

Aedes cinereus	27.0	1.1%
Aedes dorsalis	18.0	0.7%
Aedes increpitus	138.0	5.5%
Aedes melanimon	11.0	0.4%
Aedes trivittatus	5.0	0.2%
Aedes vexans	1,710.0	67.8%
Anopheles freeborni	3.0	0.1%
Culex pipiens	133.0	5.3%
Culex tarsalis	406.0	16.1%
Culiseta inornata	72.0	2.9%

Genus Proportions:

Genus	Number	Percent of Total
Aedes/Ochlerotatus	1,909.0	75.7%
Anopheles	3.0	0.1%
Culex	539.0	21.4%
Culiseta	72.0	2.9%
Other	0.0	0.0%

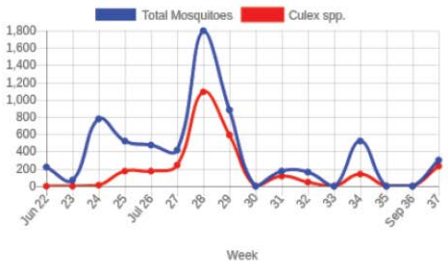


FC-014

Season: 04/01/2023 - 09/22/2023
Trap Type: CDC Light Trap
Location: FC Visitor Center
GPS: 40.56509442567909, -105.00627581030129

Total number of trap/nights set:	15.0
Total number of mosquitoes collected:	6,323.0
Average mosquitoes per trap/night:	421.5
Average Culex per trap/night:	187.2

Seasonality

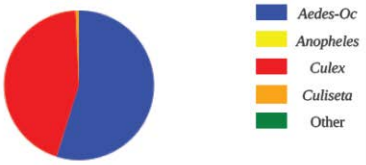


Species collected and abundance:

Aedes dorsalis	795.0	12.6%
Aedes increpitus	48.0	0.8%
Aedes melanimon	301.0	4.8%
Aedes nigromaculis	1.0	0.0%
Aedes trivittatus	1.0	0.0%
Aedes vexans	2,320.0	36.7%
Anopheles freeborni	3.0	0.0%
Coquillettidia perturbans	2.0	0.0%
Culex pipiens	648.0	10.2%
Culex tarsalis	2,160.0	34.2%
Culiseta inornata	44.0	0.7%

Genus Proportions:

Genus	Number	Percent of Total
Aedes/Ochlerotatus	3,466.0	54.8%
Anopheles	3.0	0.0%
Culex	2,808.0	44.4%
Culiseta	44.0	0.7%
Other	2.0	0.0%

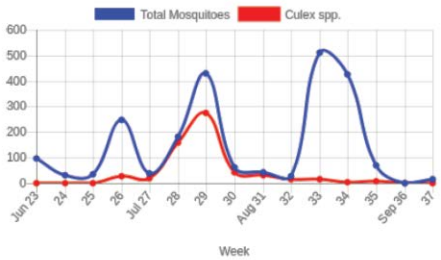


FC-015

Season: 04/01/2023 - 09/22/2023
Trap Type: CDC Light Trap
Location: Stuart and Dorset
GPS: 40.5600827919436, -105.12403752654791

Total number of trap/nights set:	15.0
Total number of mosquitoes collected:	2,205.0
Average mosquitoes per trap/night:	147.0
Average Culex per trap/night:	39.9

Seasonality

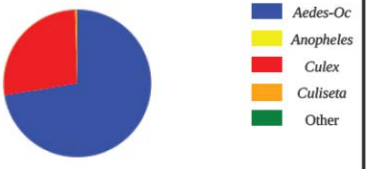


Species collected and abundance:

Aedes dorsalis	85.0	3.9%
Aedes hendersoni	1.0	0.0%
Aedes increpitus	83.0	3.8%
Aedes melanimon	6.0	0.3%
Aedes vexans	1,421.0	64.4%
Culex pipiens	39.0	1.8%
Culex tarsalis	559.0	25.4%
Culiseta inornata	11.0	0.5%

Genus Proportions:

Genus	Number	Percent of Total
Aedes/Ochlerotatus	1,596.0	72.4%
Anopheles	0.0	0.0%
Culex	598.0	27.1%
Culiseta	11.0	0.5%
Other	0.0	0.0%

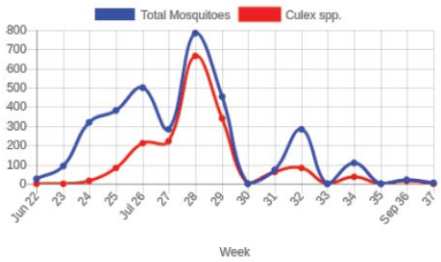


FC-019

Season: 04/01/2023 - 09/22/2023
Trap Type: CDC Light Trap
Location: Edora Park
GPS: 40.565556701715764, -105.05251139402388

Total number of trap/nights set:	15.0
Total number of mosquitoes collected:	3,325.0
Average mosquitoes per trap/night:	221.7
Average Culex per trap/night:	115.8

Seasonality

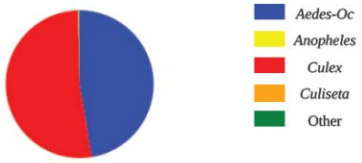


Species collected and abundance:

Aedes dorsalis	45.0	1.4%
Aedes hendersoni	1.0	0.0%
Aedes increpitus	460.0	13.8%
Aedes melanimon	11.0	0.3%
Aedes trivittatus	4.0	0.1%
Aedes vexans	1,054.0	31.7%
Coquillettidia perturbans	4.0	0.1%
Culex pipiens	337.0	10.1%
Culex tarsalis	1,400.0	42.1%
Culiseta inornata	9.0	0.3%

Genus Proportions:

Genus	Number	Percent of Total
Aedes/Ochlerotatus	1,575.0	47.4%
Anopheles	0.0	0.0%
Culex	1,737.0	52.2%
Culiseta	9.0	0.3%
Other	4.0	0.1%

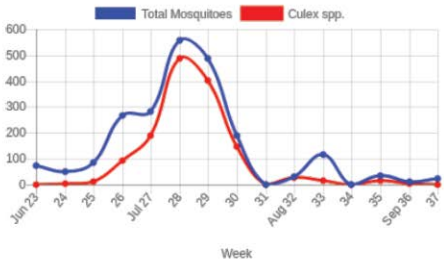


FC-023

Season: 04/01/2023 - 09/22/2023
Trap Type: CDC Light Trap
Location: Boltz
GPS: 40.54436640664932, -105.06441771984099

Total number of trap/nights set:	15.0
Total number of mosquitoes collected:	2,201.0
Average mosquitoes per trap/night:	146.7
Average Culex per trap/night:	93.4

Seasonality

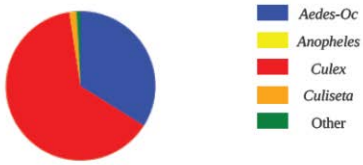


Species collected and abundance:

Aedes dorsalis	300.0	13.6%
Aedes increpitus	2.0	0.1%
Aedes melanimon	27.0	1.2%
Aedes vexans	418.0	19.0%
Coquillettidia perturbans	19.0	0.9%
Culex pipiens	58.0	2.6%
Culex tarsalis	1,343.0	61.0%
Culiseta inornata	34.0	1.5%

Genus Proportions:

Genus	Number	Percent of Total
Aedes/Ochlerotatus	747.0	33.9%
Anopheles	0.0	0.0%
Culex	1,401.0	63.7%
Culiseta	34.0	1.5%
Other	19.0	0.9%

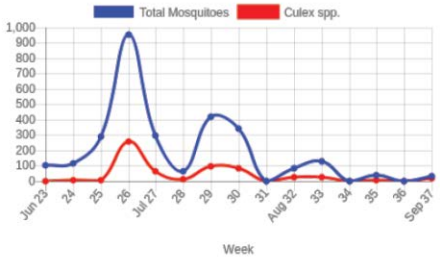


FC-027

Season: 04/01/2023 - 09/22/2023
Trap Type: CDC Light Trap
Location: 3001 San Luis
GPS: 40.546510068398455, -105.03359008580445

Total number of trap/nights set:	14.0
Total number of mosquitoes collected:	2,874.0
Average mosquitoes per trap/night:	205.3
Average Culex per trap/night:	42.7

Seasonality

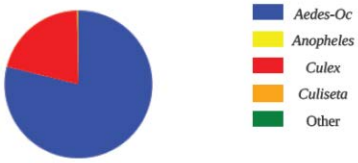


Species collected and abundance:

Aedes dorsalis	56.0	1.9%
Aedes increpitus	532.0	18.5%
Aedes melanimon	65.0	2.3%
Aedes trivittatus	12.0	0.4%
Aedes vexans	1,601.0	55.7%
Anopheles freeborni	1.0	0.0%
Coquillettidia perturbans	1.0	0.0%
Culex pipiens	73.0	2.5%
Culex tarsalis	525.0	18.3%
Culiseta inornata	8.0	0.3%

Genus Proportions:

Genus	Number	Percent of Total
Aedes/Ochlerotatus	2,266.0	78.8%
Anopheles	1.0	0.0%
Culex	598.0	20.8%
Culiseta	8.0	0.3%
Other	1.0	0.0%

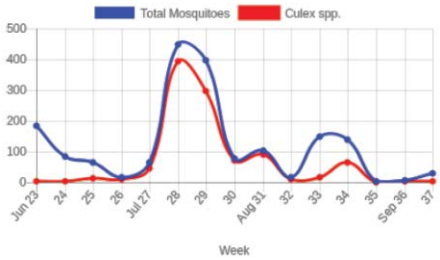


FC-029

Season: 04/01/2023 - 09/22/2023
Trap Type: CDC Light Trap
Location: Ben's Park
GPS: 40.51136844640155, -105.07185079157352

Total number of trap/nights set:	15.0
Total number of mosquitoes collected:	1,775.0
Average mosquitoes per trap/night:	118.3
Average Culex per trap/night:	68.5

Seasonality

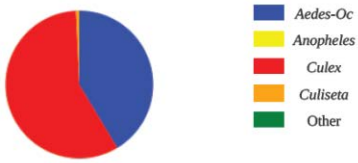


Species collected and abundance:

Aedes dorsalis	99.0	5.6%
Aedes increpitus	8.0	0.5%
Aedes melanimon	33.0	1.9%
Aedes vexans	594.0	33.5%
Culex pipiens	46.0	2.6%
Culex tarsalis	982.0	55.3%
Culiseta inornata	13.0	0.7%

Genus Proportions:

Genus	Number	Percent of Total
Aedes/Ochlerotatus	734.0	41.4%
Anopheles	0.0	0.0%
Culex	1,028.0	57.9%
Culiseta	13.0	0.7%
Other	0.0	0.0%

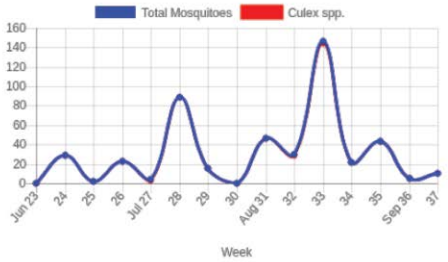


FC-029gr

Season: 04/01/2023 - 09/22/2023
Trap Type: Gravid Trap
Location: Ben's Park Gravid
GPS: 40.51136309344342, -105.07115509361029

Total number of trap/nights set:	15.0
Total number of mosquitoes collected:	465.0
Average mosquitoes per trap/night:	31.0
Average Culex per trap/night:	30.7

Seasonality



Species collected and abundance:

Aedes vexans	2.0	0.4%
Culex pipiens	448.0	96.3%
Culex tarsalis	12.0	2.6%
Culiseta inornata	3.0	0.6%

Genus Proportions:

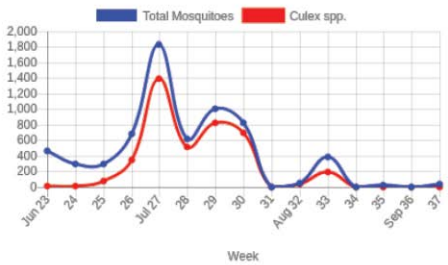
Genus	Number	Percent of Total
Aedes/Ochlerotatus	2.0	0.4%
Anopheles	0.0	0.0%
Culex	460.0	98.9%
Culiseta	3.0	0.6%
Other	0.0	0.0%

FC-031

Season: 04/01/2023 - 09/22/2023
Trap Type: CDC Light Trap
Location: Willow Springs
GPS: 40.50608996726513, -105.03941986709833

Total number of trap/nights set:	15.0
Total number of mosquitoes collected:	6,524.0
Average mosquitoes per trap/night:	434.9
Average Culex per trap/night:	274.5

Seasonality

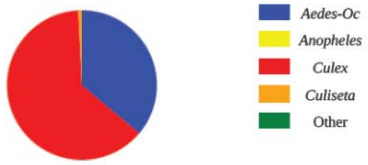


Species collected and abundance:

Aedes dorsalis	463.0	7.1%
Aedes increpitus	2.0	0.0%
Aedes melanimon	266.0	4.1%
Aedes vexans	1,624.0	24.9%
Culex pipiens	146.0	2.2%
Culex tarsalis	3,972.0	60.9%
Culiseta inornata	51.0	0.8%

Genus Proportions:

Genus	Number	Percent of Total
Aedes/Ochlerotatus	2,355.0	36.1%
Anopheles	0.0	0.0%
Culex	4,118.0	63.1%
Culiseta	51.0	0.8%
Other	0.0	0.0%

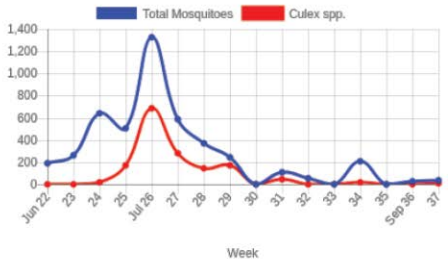


FC-034

Season: 04/01/2023 - 09/22/2023
Trap Type: CDC Light Trap
Location: Country Club
GPS: 40.62669924225406, -105.0521868467331

Total number of trap/nights set:	15.0
Total number of mosquitoes collected:	4,560.0
Average mosquitoes per trap/night:	304.0
Average Culex per trap/night:	103.5

Seasonality

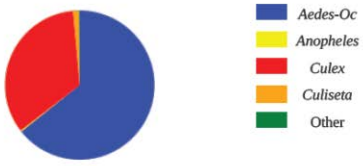


Species collected and abundance:

Aedes cinereus	5.0	0.1%
Aedes dorsalis	314.0	6.9%
Aedes increpitus	18.0	0.4%
Aedes melanimon	554.0	12.1%
Aedes vexans	2,040.0	44.7%
Anopheles freeborni	12.0	0.3%
Coquillettidia perturbans	5.0	0.1%
Culex pipiens	37.0	0.8%
Culex tarsalis	1,515.0	33.2%
Culiseta inornata	60.0	1.3%

Genus Proportions:

Genus	Number	Percent of Total
Aedes/Ochlerotatus	2,931.0	64.3%
Anopheles	12.0	0.3%
Culex	1,552.0	34.0%
Culiseta	60.0	1.3%
Other	5.0	0.1%

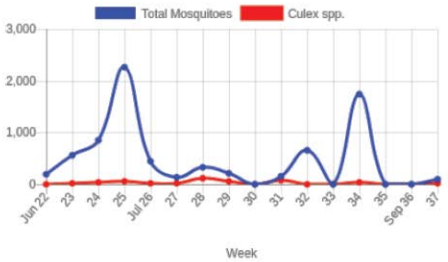


FC-036

Season: 04/01/2023 - 09/22/2023
Trap Type: CDC Light Trap
Location: Hemlock
GPS: 40.60076561609448, -105.07983673363923

Total number of trap/nights set:	15.0
Total number of mosquitoes collected:	7,632.0
Average mosquitoes per trap/night:	508.8
Average Culex per trap/night:	28.9

Seasonality

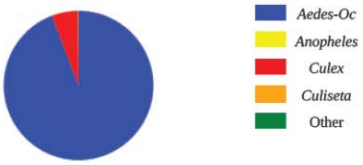


Species collected and abundance:

Aedes dorsalis	363.0	4.8%
Aedes increpitus	386.0	5.1%
Aedes melanimon	191.0	2.5%
Aedes vexans	6,249.0	81.9%
Anopheles freeborni	1.0	0.0%
Culex pipiens	95.0	1.2%
Culex tarsalis	338.0	4.4%
Culiseta inornata	9.0	0.1%
Trap Stolen	0.0	0.0%

Genus Proportions:

Genus	Number	Percent of Total
Aedes/Ochlerotatus	7,189.0	94.2%
Anopheles	1.0	0.0%
Culex	433.0	5.7%
Culiseta	9.0	0.1%
Other	0.0	0.0%

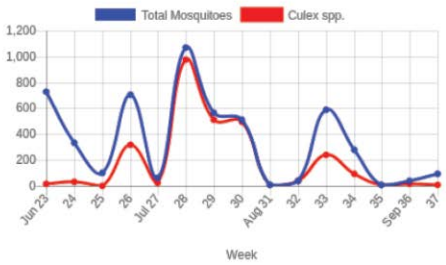


FC-037

Season: 04/01/2023 - 09/22/2023
Trap Type: CDC Light Trap
Location: Chelsea Ridge
GPS: 40.51667989969775, -105.09808011353017

Total number of trap/nights set:	15.0
Total number of mosquitoes collected:	5,125.0
Average mosquitoes per trap/night:	341.7
Average Culex per trap/night:	184.8

Seasonality

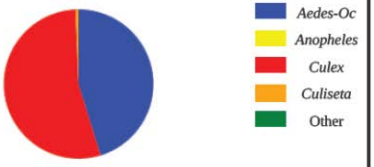


Species collected and abundance:

Aedes dorsalis	75.0	1.5%
Aedes hendersoni	1.0	0.0%
Aedes increpitus	60.0	1.2%
Aedes melanimon	65.0	1.3%
Aedes trivittatus	1.0	0.0%
Aedes vexans	2,116.0	41.3%
Anopheles freeborni	1.0	0.0%
Culex pipiens	225.0	4.4%
Culex tarsalis	2,547.0	49.7%
Culiseta inornata	34.0	0.7%

Genus Proportions:

Genus	Number	Percent of Total
Aedes/Ochlerotatus	2,318.0	45.2%
Anopheles	1.0	0.0%
Culex	2,772.0	54.1%
Culiseta	34.0	0.7%
Other	0.0	0.0%

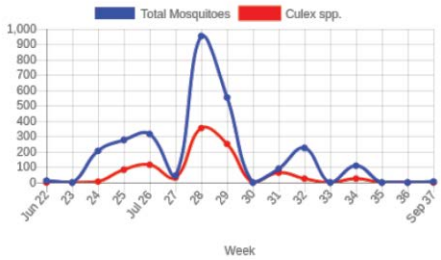


FC-038

Season: 04/01/2023 - 09/22/2023
Trap Type: CDC Light Trap
Location: Lochside Lane
GPS: 40.59907046206435, -105.00655643641949

Total number of trap/nights set:	14.0
Total number of mosquitoes collected:	2,794.0
Average mosquitoes per trap/night:	199.6
Average Culex per trap/night:	67.9

Seasonality

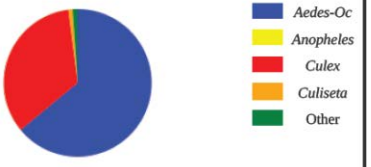


Species collected and abundance:

Aedes dorsalis	88.0	3.1%
Aedes increpitus	68.0	2.4%
Aedes melanimon	53.0	1.9%
Aedes trivittatus	9.0	0.3%
Aedes vexans	1,570.0	56.2%
Coquillettidia perturbans	30.0	1.1%
Culex pipiens	67.0	2.4%
Culex tarsalis	883.0	31.6%
Culiseta inornata	26.0	0.9%

Genus Proportions:

Genus	Number	Percent of Total
Aedes/Ochlerotatus	1,788.0	64.0%
Anopheles	0.0	0.0%
Culex	950.0	34.0%
Culiseta	26.0	0.9%
Other	30.0	1.1%

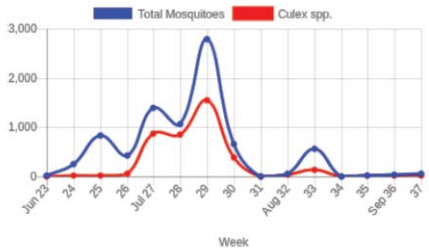


FC-039

Season: 04/01/2023 - 09/22/2023
Trap Type: CDC Light Trap
Location: Fossil Creek South
GPS: 40.4808101171896, -105.03934007138014

Total number of trap/nights set:	15.0
Total number of mosquitoes collected:	8,114.0
Average mosquitoes per trap/night:	540.9
Average Culex per trap/night:	263.4

Seasonality

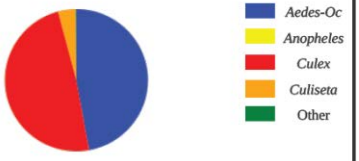


Species collected and abundance:

Aedes cinereus	1.0	0.0%
Aedes dorsalis	2,126.0	26.2%
Aedes hendersoni	1.0	0.0%
Aedes increpitus	38.0	0.5%
Aedes melanimon	326.0	4.0%
Aedes nigromaculis	1.0	0.0%
Aedes trivittatus	5.0	0.1%
Aedes vexans	1,327.0	16.4%
Anopheles freeborni	3.0	0.0%
Coquillettidia perturbans	9.0	0.1%
Culex pipiens	183.0	2.3%
Culex tarsalis	3,768.0	46.4%
Culiseta inornata	326.0	4.0%

Genus Proportions:

Genus	Number	Percent of Total
Aedes/Ochlerotatus	3,825.0	47.1%
Anopheles	3.0	0.0%
Culex	3,951.0	48.7%
Culiseta	326.0	4.0%
Other	9.0	0.1%

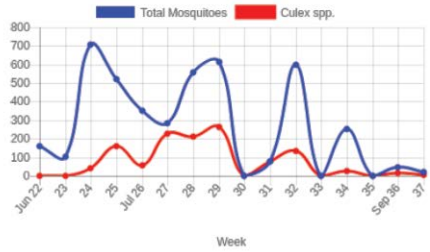


FC-040

Season: 04/01/2023 - 09/22/2023
Trap Type: CDC Light Trap
Location: Redwood
GPS: 40.60307751389784, -105.06707444787025

Total number of trap/nights set:	15.0
Total number of mosquitoes collected:	4,290.0
Average mosquitoes per trap/night:	286.0
Average Culex per trap/night:	80.7

Seasonality

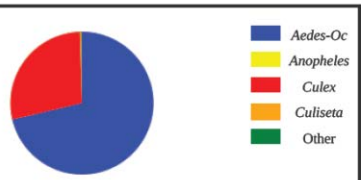


Species collected and abundance:

Aedes dorsalis	496.0	11.6%
Aedes increpitus	47.0	1.1%
Aedes melanimon	170.0	4.0%
Aedes trivittatus	1.0	0.0%
Aedes vexans	2,344.0	54.6%
Anopheles freeborni	1.0	0.0%
Coquillettidia perturbans	5.0	0.1%
Culex pipiens	201.0	4.7%
Culex tarsalis	1,010.0	23.5%
Culiseta inornata	15.0	0.3%

Genus Proportions:

Genus	Number	Percent of Total
Aedes/Ochlerotatus	3,058.0	71.3%
Anopheles	1.0	0.0%
Culex	1,211.0	28.2%
Culiseta	15.0	0.3%
Other	5.0	0.1%

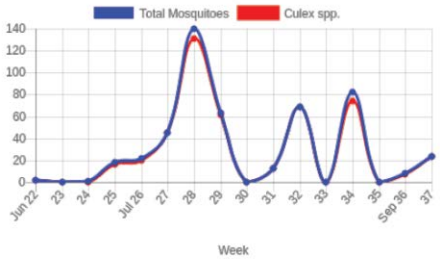


FC-040gr

Season: 04/01/2023 - 09/22/2023
Trap Type: Gravid Trap
Location: Redwood Gravid
GPS: 40.60309558721682, -105.06650783121586

Total number of trap/nights set:	15.0
Total number of mosquitoes collected:	486.0
Average mosquitoes per trap/night:	32.4
Average Culex per trap/night:	30.7

Seasonality



Species collected and abundance:

Aedes dorsalis	2.0	0.4%
Aedes melanimon	1.0	0.2%
Aedes vexans	14.0	2.9%
Culex pipiens	432.0	88.9%
Culex tarsalis	29.0	6.0%
Culiseta inornata	8.0	1.6%

Genus Proportions:

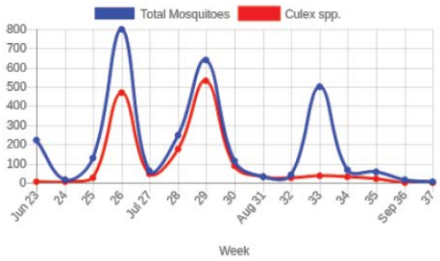
Genus	Number	Percent of Total
Aedes/Ochlerotatus	17.0	3.5%
Anopheles	0.0	0.0%
Culex	461.0	94.9%
Culiseta	8.0	1.6%
Other	0.0	0.0%

FC-041

Season: 04/01/2023 - 09/22/2023
Trap Type: CDC Light Trap
Location: Fishback
GPS: 40.58794002990494, -105.10486006736755

Total number of trap/nights set:	15.0
Total number of mosquitoes collected:	2,937.0
Average mosquitoes per trap/night:	195.8
Average Culex per trap/night:	99.3

Seasonality

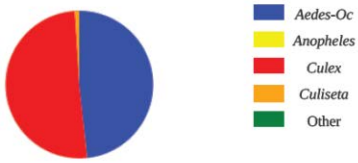


Species collected and abundance:

Aedes dorsalis	49.0	1.7%
Aedes hendersoni	2.0	0.1%
Aedes increpitus	42.0	1.4%
Aedes melanimon	14.0	0.5%
Aedes trivittatus	2.0	0.1%
Aedes vexans	1,309.0	44.6%
Anopheles freeborni	1.0	0.0%
Culex pipiens	102.0	3.5%
Culex tarsalis	1,387.0	47.2%
Culiseta inornata	29.0	1.0%

Genus Proportions:

Genus	Number	Percent of Total
Aedes/Ochlerotatus	1,418.0	48.3%
Anopheles	1.0	0.0%
Culex	1,489.0	50.7%
Culiseta	29.0	1.0%
Other	0.0	0.0%

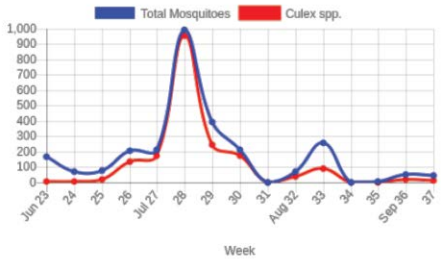


FC-046

Season: 04/01/2023 - 09/22/2023
Trap Type: CDC Light Trap
Location: Westshore Ct
GPS: 40.52954284354251, -105.0651342049241

Total number of trap/nights set:	15.0
Total number of mosquitoes collected:	2,757.0
Average mosquitoes per trap/night:	183.8
Average Culex per trap/night:	123.6

Seasonality

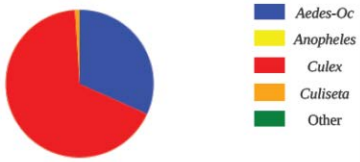


Species collected and abundance:

Aedes dorsalis	76.0	2.8%
Aedes melanimon	23.0	0.8%
Aedes vexans	775.0	28.1%
Anopheles freeborni	1.0	0.0%
Culex pipiens	163.0	5.9%
Culex tarsalis	1,691.0	61.3%
Culiseta inornata	28.0	1.0%

Genus Proportions:

Genus	Number	Percent of Total
Aedes/Ochlerotatus	874.0	31.7%
Anopheles	1.0	0.0%
Culex	1,854.0	67.2%
Culiseta	28.0	1.0%
Other	0.0	0.0%

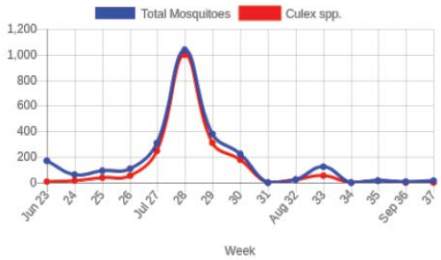


FC-047

Season: 04/01/2023 - 09/22/2023
Trap Type: CDC Light Trap
Location: Keeneland And Twin Oak
GPS: 40.51511286336567, -105.0528560578823

Total number of trap/nights set:	15.0
Total number of mosquitoes collected:	2,544.0
Average mosquitoes per trap/night:	169.6
Average Culex per trap/night:	129.1

Seasonality

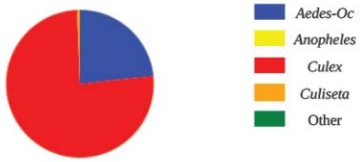


Species collected and abundance:

Aedes dorsalis	36.0	1.4%
Aedes increpitus	1.0	0.0%
Aedes melanimon	24.0	0.9%
Aedes vexans	531.0	20.9%
Culex pipiens	62.0	2.4%
Culex tarsalis	1,874.0	73.7%
Culiseta inornata	16.0	0.6%

Genus Proportions:

Genus	Number	Percent of Total
Aedes/Ochlerotatus	592.0	23.3%
Anopheles	0.0	0.0%
Culex	1,936.0	76.1%
Culiseta	16.0	0.6%
Other	0.0	0.0%

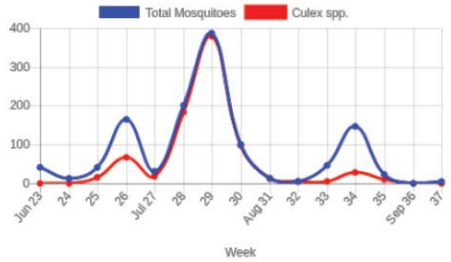


FC-049

Season: 04/01/2023 - 09/22/2023
Trap Type: CDC Light Trap
Location: Casa Grande and Downing
GPS: 40.573239949533054, -105.13949006795883

Total number of trap/nights set:	15.0
Total number of mosquitoes collected:	1,217.0
Average mosquitoes per trap/night:	81.1
Average Culex per trap/night:	54.6

Seasonality

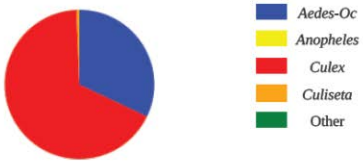


Species collected and abundance:

Aedes dorsalis	24.0	2.0%
Aedes increpitus	7.0	0.6%
Aedes melanimon	5.0	0.4%
Aedes vexans	354.0	29.1%
Culex pipiens	99.0	8.1%
Culex tarsalis	720.0	59.2%
Culiseta inornata	8.0	0.7%

Genus Proportions:

Genus	Number	Percent of Total
Aedes/Ochlerotatus	390.0	32.0%
Anopheles	0.0	0.0%
Culex	819.0	67.3%
Culiseta	8.0	0.7%
Other	0.0	0.0%

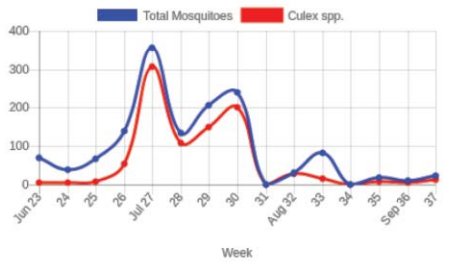


FC-050

Season: 04/01/2023 - 09/22/2023
Trap Type: CDC Light Trap
Location: Golden Meadows Ditch
GPS: 40.52954004037219, -105.05033008754252

Total number of trap/nights set:	15.0
Total number of mosquitoes collected:	1,414.0
Average mosquitoes per trap/night:	94.3
Average Culex per trap/night:	60.2

Seasonality

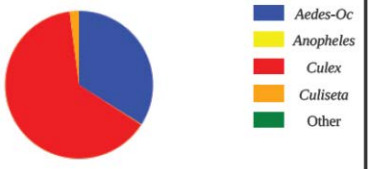


Species collected and abundance:

Aedes dorsalis	41.0	2.9%
Aedes melanimon	5.0	0.4%
Aedes vexans	434.0	30.7%
Anopheles freeborni	2.0	0.1%
Culex pipiens	50.0	3.5%
Culex tarsalis	853.0	60.3%
Culiseta inornata	29.0	2.1%

Genus Proportions:

Genus	Number	Percent of Total
Aedes/Ochlerotatus	480.0	33.9%
Anopheles	2.0	0.1%
Culex	903.0	63.9%
Culiseta	29.0	2.1%
Other	0.0	0.0%

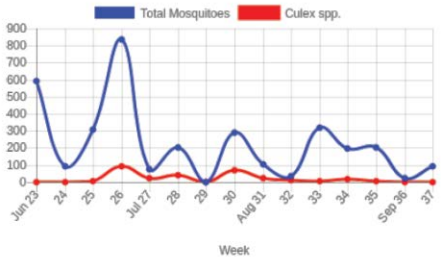


FC-052

Season: 04/01/2023 - 09/22/2023
Trap Type: CDC Light Trap
Location: 603 Gilgalad Way
GPS: 40.5616299281039, -105.08703008294106

Total number of trap/nights set:	14.0
Total number of mosquitoes collected:	3,374.0
Average mosquitoes per trap/night:	241.0
Average Culex per trap/night:	20.4

Seasonality

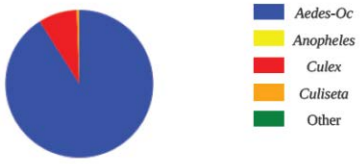


Species collected and abundance:

Aedes cinereus	148.0	4.4%
Aedes dorsalis	36.0	1.1%
Aedes hendersoni	9.0	0.3%
Aedes increpitus	42.0	1.2%
Aedes melanimon	14.0	0.4%
Aedes vexans	2,820.0	83.6%
Culex pipiens	13.0	0.4%
Culex tarsalis	273.0	8.1%
Culiseta inornata	19.0	0.6%

Genus Proportions:

Genus	Number	Percent of Total
Aedes/Ochlerotatus	3,069.0	91.0%
Anopheles	0.0	0.0%
Culex	286.0	8.5%
Culiseta	19.0	0.6%
Other	0.0	0.0%

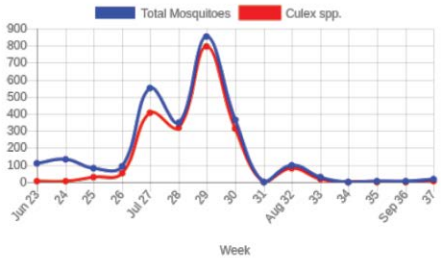


FC-053

Season: 04/01/2023 - 09/22/2023
Trap Type: CDC Light Trap
Location: Egret and Rookery
GPS: 40.4994200898768, -105.01182999461888

Total number of trap/nights set:	15.0
Total number of mosquitoes collected:	2,694.0
Average mosquitoes per trap/night:	179.6
Average Culex per trap/night:	134.7

Seasonality

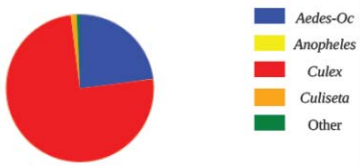


Species collected and abundance:

Aedes cinereus	1.0	0.0%
Aedes dorsalis	48.0	1.8%
Aedes increpitus	5.0	0.2%
Aedes melanimon	68.0	2.5%
Aedes vexans	496.0	18.4%
Anopheles freeborni	2.0	0.1%
Coquillettidia perturbans	19.0	0.7%
Culex pipiens	20.0	0.7%
Culex tarsalis	2,000.0	74.2%
Culiseta inornata	35.0	1.3%

Genus Proportions:

Genus	Number	Percent of Total
Aedes/Ochlerotatus	618.0	22.9%
Anopheles	2.0	0.1%
Culex	2,020.0	75.0%
Culiseta	35.0	1.3%
Other	19.0	0.7%

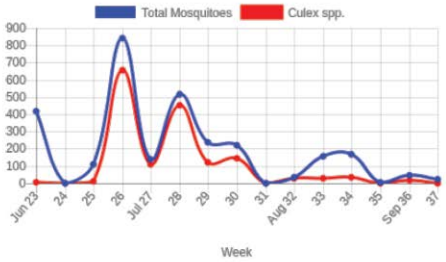


FC-054

Season: 04/01/2023 - 09/22/2023
Trap Type: CDC Light Trap
Location: 737 Parliament
GPS: 40.49997995372379, -105.06319999694824

Total number of trap/nights set:	14.0
Total number of mosquitoes collected:	2,908.0
Average mosquitoes per trap/night:	207.7
Average Culex per trap/night:	115.1

Seasonality

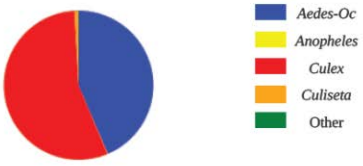


Species collected and abundance:

Aedes dorsalis	116.0	4.0%
Aedes melanimon	35.0	1.2%
Aedes vexans	1,116.0	38.4%
Anopheles freeborni	3.0	0.1%
Coquillettidia perturbans	1.0	0.0%
Culex pipiens	93.0	3.2%
Culex tarsalis	1,519.0	52.2%
Culiseta inornata	25.0	0.9%

Genus Proportions:

Genus	Number	Percent of Total
Aedes/Ochlerotatus	1,267.0	43.6%
Anopheles	3.0	0.1%
Culex	1,612.0	55.4%
Culiseta	25.0	0.9%
Other	1.0	0.0%

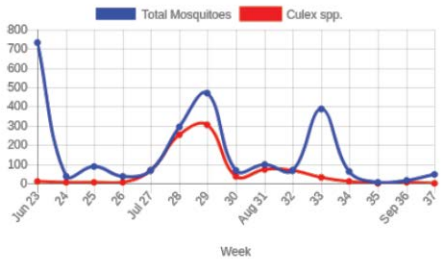


FC-057

Season: 04/01/2023 - 09/22/2023
Trap Type: CDC Light Trap
Location: Registry Ridge
GPS: 40.48438997678501, -105.10523993521929

Total number of trap/nights set:	15.0
Total number of mosquitoes collected:	2,471.0
Average mosquitoes per trap/night:	164.7
Average Culex per trap/night:	57.3

Seasonality

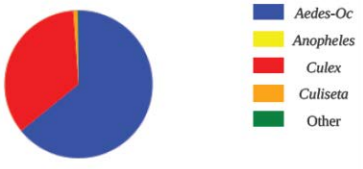


Species collected and abundance:

Aedes dorsalis	285.0	11.5%
Aedes increpitus	16.0	0.6%
Aedes melanimon	11.0	0.4%
Aedes vexans	1,272.0	51.5%
Coquillettidia perturbans	5.0	0.2%
Culex pipiens	45.0	1.8%
Culex tarsalis	814.0	32.9%
Culiseta inornata	23.0	0.9%

Genus Proportions:

Genus	Number	Percent of Total
Aedes/Ochlerotatus	1,584.0	64.1%
Anopheles	0.0	0.0%
Culex	859.0	34.8%
Culiseta	23.0	0.9%
Other	5.0	0.2%

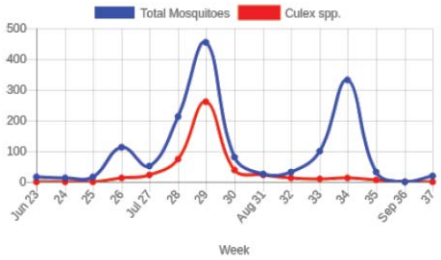


FC-058

Season: 04/01/2023 - 09/22/2023
Trap Type: CDC Light Trap
Location: Spring Creek Trail-- Michener Dr
GPS: 40.54883989155028, -105.12533001601697

Total number of trap/nights set:	15.0
Total number of mosquitoes collected:	1,499.0
Average mosquitoes per trap/night:	99.9
Average Culex per trap/night:	31.1

Seasonality

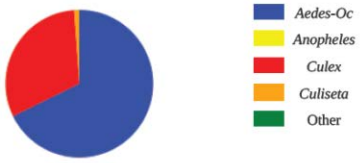


Species collected and abundance:

Aedes dorsalis	16.0	1.1%
Aedes increpitus	142.0	9.5%
Aedes melanimon	8.0	0.5%
Aedes vexans	849.0	56.6%
Culex pipiens	38.0	2.5%
Culex tarsalis	429.0	28.6%
Culiseta inornata	17.0	1.1%

Genus Proportions:

Genus	Number	Percent of Total
Aedes/Ochlerotatus	1,015.0	67.7%
Anopheles	0.0	0.0%
Culex	467.0	31.2%
Culiseta	17.0	1.1%
Other	0.0	0.0%

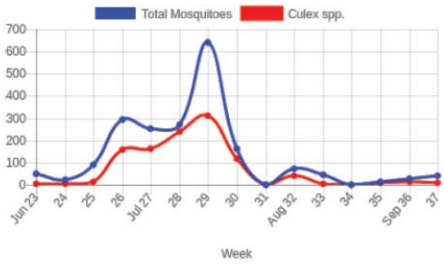


FC-059

Season: 04/01/2023 - 09/22/2023
Trap Type: CDC Light Trap
Location: Springwood and Lochwood
GPS: 40.5426000124595, -105.0460398942232

Total number of trap/nights set:	15.0
Total number of mosquitoes collected:	1,980.0
Average mosquitoes per trap/night:	132.0
Average Culex per trap/night:	71.9

Seasonality

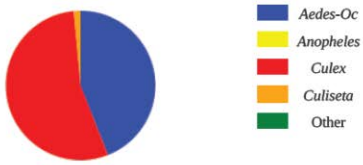


Species collected and abundance:

Aedes dorsalis	33.0	1.7%
Aedes increpitus	15.0	0.8%
Aedes melanimon	20.0	1.0%
Aedes nigromaculis	1.0	0.1%
Aedes vexans	802.0	40.5%
Anopheles freeborni	1.0	0.1%
Culex pipiens	54.0	2.7%
Culex tarsalis	1,025.0	51.8%
Culiseta inornata	29.0	1.5%

Genus Proportions:

Genus	Number	Percent of Total
Aedes/Ochlerotatus	871.0	44.0%
Anopheles	1.0	0.1%
Culex	1,079.0	54.5%
Culiseta	29.0	1.5%
Other	0.0	0.0%

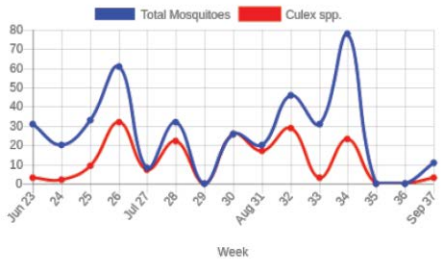


FC-060

Season: 04/01/2023 - 09/22/2023
Trap Type: CDC Light Trap
Location: 808 Ponderosa
GPS: 40.548700028018544, -105.12018989771605

Total number of trap/nights set:	14.0
Total number of mosquitoes collected:	397.0
Average mosquitoes per trap/night:	28.4
Average Culex per trap/night:	12.6

Seasonality

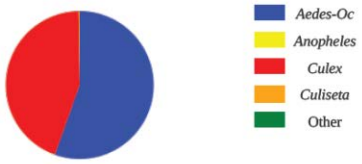


Species collected and abundance:

Aedes dorsalis	23.0	5.8%
Aedes hendersoni	1.0	0.3%
Aedes melanimon	3.0	0.8%
Aedes trivittatus	1.0	0.3%
Aedes vexans	192.0	48.4%
Culex pipiens	29.0	7.3%
Culex tarsalis	147.0	37.0%
Culiseta inornata	1.0	0.3%

Genus Proportions:

Genus	Number	Percent of Total
Aedes/Ochlerotatus	220.0	55.4%
Anopheles	0.0	0.0%
Culex	176.0	44.3%
Culiseta	1.0	0.3%
Other	0.0	0.0%

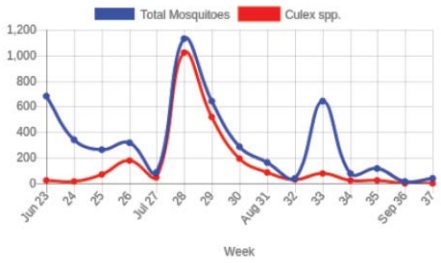


FC-061

Season: 04/01/2023 - 09/22/2023
Trap Type: CDC Light Trap
Location: 821 W Lake St, Fort Collins, CO 80521, USA
GPS: 40.56879993041706, -105.09164985269308

Total number of trap/nights set:	15.0
Total number of mosquitoes collected:	4,817.0
Average mosquitoes per trap/night:	321.1
Average Culex per trap/night:	153.9

Seasonality

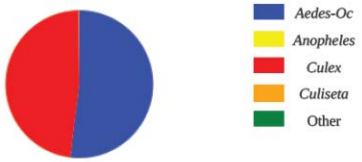


Species collected and abundance:

Aedes dorsalis	74.0	1.5%
Aedes increpitus	41.0	0.9%
Aedes melanimon	50.0	1.0%
Aedes trivittatus	3.0	0.1%
Aedes vexans	2,333.0	48.4%
Culex pipiens	172.0	3.6%
Culex tarsalis	2,136.0	44.3%
Culiseta inornata	8.0	0.2%

Genus Proportions:

Genus	Number	Percent of Total
Aedes/Ochlerotatus	2,501.0	51.9%
Anopheles	0.0	0.0%
Culex	2,308.0	47.9%
Culiseta	8.0	0.2%
Other	0.0	0.0%

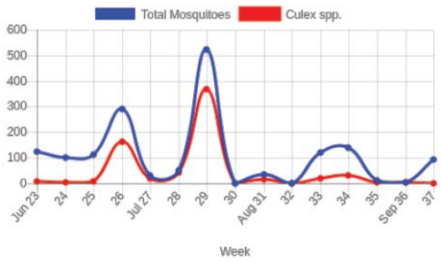


FC-062

Season: 04/01/2023 - 09/22/2023
Trap Type: CDC Light Trap
Location: Water's Edge at Blue Mesa
GPS: 40.542779889722866, -105.08740995079279

Total number of trap/nights set:	13.0
Total number of mosquitoes collected:	1,624.0
Average mosquitoes per trap/night:	124.9
Average Culex per trap/night:	52.7

Seasonality

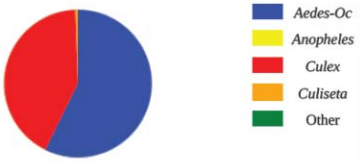


Species collected and abundance:

Aedes dorsalis	99.0	6.1%
Aedes increpitus	2.0	0.1%
Aedes melanimon	20.0	1.2%
Aedes vexans	809.0	49.8%
Culex pipiens	91.0	5.6%
Culex tarsalis	594.0	36.6%
Culiseta inornata	9.0	0.6%

Genus Proportions:

Genus	Number	Percent of Total
Aedes/Ochlerotatus	930.0	57.3%
Anopheles	0.0	0.0%
Culex	685.0	42.2%
Culiseta	9.0	0.6%
Other	0.0	0.0%

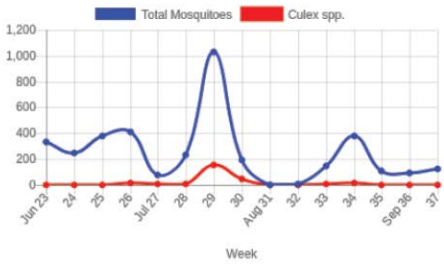


FC-063

Season: 04/01/2023 - 09/22/2023
Trap Type: CDC Light Trap
Location: Red Fox Meadows
GPS: 40.565679974786285, -105.10485000908375

Total number of trap/nights set:	15.0
Total number of mosquitoes collected:	3,755.0
Average mosquitoes per trap/night:	250.3
Average Culex per trap/night:	16.7

Seasonality

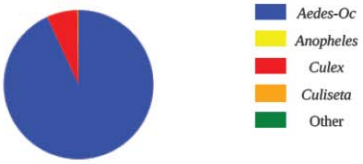


Species collected and abundance:

Aedes dorsalis	25.0	0.7%
Aedes hendersoni	3.0	0.1%
Aedes increpitus	832.0	22.2%
Aedes melanimon	10.0	0.3%
Aedes vexans	2,625.0	69.9%
Anopheles freeborni	1.0	0.0%
Culex pipiens	42.0	1.1%
Culex tarsalis	208.0	5.5%
Culiseta inornata	9.0	0.2%

Genus Proportions:

Genus	Number	Percent of Total
Aedes/Ochlerotatus	3,495.0	93.1%
Anopheles	1.0	0.0%
Culex	250.0	6.7%
Culiseta	9.0	0.2%
Other	0.0	0.0%

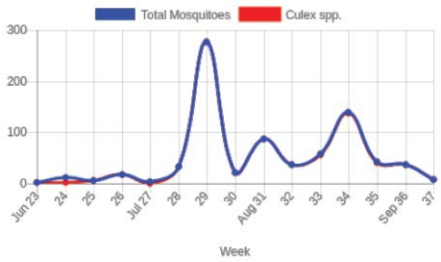


FC-063gr

Season: 04/01/2023 - 09/22/2023
Trap Type: Gravid Trap
Location: Red Fox Meadows Gravid
GPS: 40.565679974786285, -105.10504983365536

Total number of trap/nights set:	15.0
Total number of mosquitoes collected:	778.0
Average mosquitoes per trap/night:	51.9
Average Culex per trap/night:	50.6

Seasonality



Species collected and abundance:

Aedes increpitus	10.0	1.3%
Aedes vexans	8.0	1.0%
Culex pipiens	754.0	96.9%
Culex tarsalis	5.0	0.6%
Culiseta inornata	1.0	0.1%

Genus Proportions:

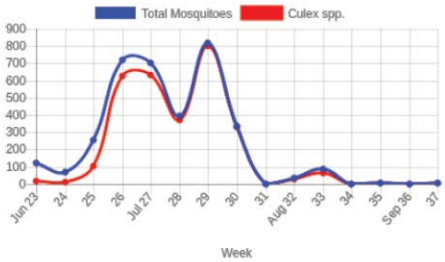
Genus	Number	Percent of Total
Aedes/Ochlerotatus	18.0	2.3%
Anopheles	0.0	0.0%
Culex	759.0	97.6%
Culiseta	1.0	0.1%
Other	0.0	0.0%

FC-064

Season: 04/01/2023 - 09/22/2023
Trap Type: CDC Light Trap
Location: West Chase
GPS: 40.49867997125427, -105.0298001244664

Total number of trap/nights set:	15.0
Total number of mosquitoes collected:	3,546.0
Average mosquitoes per trap/night:	236.4
Average Culex per trap/night:	199.7

Seasonality

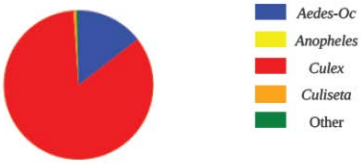


Species collected and abundance:

Aedes dorsalis	77.0	2.2%
Aedes melanimon	33.0	0.9%
Aedes trivittatus	1.0	0.0%
Aedes vexans	402.0	11.3%
Coquillettidia perturbans	17.0	0.5%
Culex pipiens	165.0	4.7%
Culex tarsalis	2,830.0	79.8%
Culiseta inornata	21.0	0.6%

Genus Proportions:

Genus	Number	Percent of Total
Aedes/Ochlerotatus	513.0	14.5%
Anopheles	0.0	0.0%
Culex	2,995.0	84.5%
Culiseta	21.0	0.6%
Other	17.0	0.5%

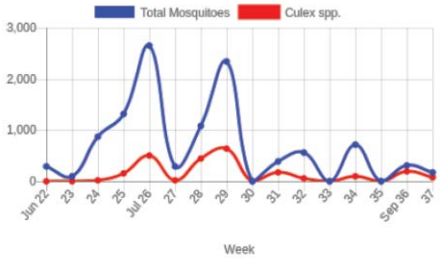


FC-066

Season: 04/01/2023 - 09/22/2023
Trap Type: CDC Light Trap
Location: Prospect Ponds
GPS: 40.55846837302044, -105.02281665802002

Total number of trap/nights set: 15.0
Total number of mosquitoes collected: 11,047.0
Average mosquitoes per trap/night: 736.5
Average Culex per trap/night: 156.1

Seasonality

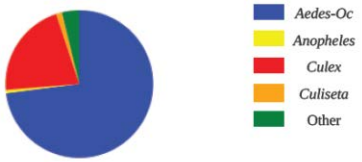


Species collected and abundance:

Aedes dorsalis	582.0	5.3%
Aedes hendersoni	1.0	0.0%
Aedes increpitus	1,165.0	10.5%
Aedes melanimon	1,325.0	12.0%
Aedes trivittatus	15.0	0.1%
Aedes vexans	4,979.0	45.1%
Anopheles freeborni	77.0	0.7%
Coquillettidia perturbans	418.0	3.8%
Culex pipiens	903.0	8.2%
Culex tarsalis	1,439.0	13.0%
Culiseta inornata	143.0	1.3%

Genus Proportions:

Genus	Number	Percent of Total
Aedes/Ochlerotatus	8,067.0	73.0%
Anopheles	77.0	0.7%
Culex	2,342.0	21.2%
Culiseta	143.0	1.3%
Other	418.0	3.8%

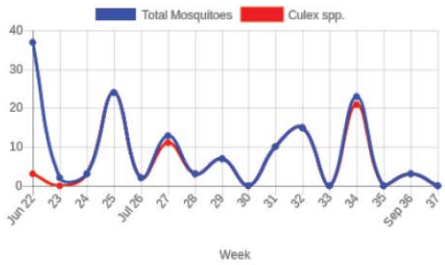


FC-066gr

Season: 04/01/2023 - 09/22/2023
Trap Type: Gravid Trap
Location: Prospect Ponds Gravid
GPS: 40.55830305717813, -105.02268858253954

Total number of trap/nights set: 15.0
Total number of mosquitoes collected: 142.0
Average mosquitoes per trap/night: 9.5
Average Culex per trap/night: 6.8

Seasonality

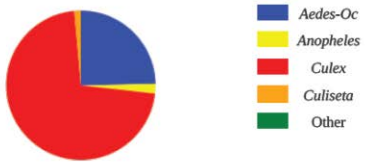


Species collected and abundance:

Aedes dorsalis	1.0	0.7%
Aedes increpitus	2.0	1.4%
Aedes vexans	32.0	22.5%
Anopheles freeborni	3.0	2.1%
Culex pipiens	95.0	66.9%
Culex tarsalis	7.0	4.9%
Culiseta inornata	2.0	1.4%

Genus Proportions:

Genus	Number	Percent of Total
Aedes/Ochlerotatus	35.0	24.6%
Anopheles	3.0	2.1%
Culex	102.0	71.8%
Culiseta	2.0	1.4%
Other	0.0	0.0%

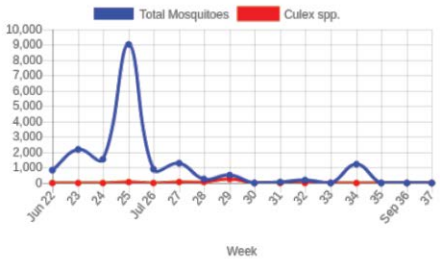


FC-067

Season: 04/01/2023 - 09/22/2023
Trap Type: CDC Light Trap
Location: Poudre River Trail
GPS: 40.57749479750878, -105.05568780004978

Total number of trap/nights set:	15.0
Total number of mosquitoes collected:	17,862.0
Average mosquitoes per trap/night:	1,190.8
Average Culex per trap/night:	26.1

Seasonality

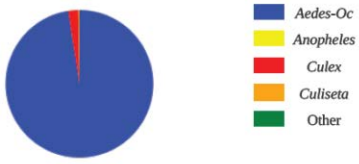


Species collected and abundance:

Aedes dorsalis	463.0	2.6%
Aedes increpitus	9,238.0	51.7%
Aedes melanimon	613.0	3.4%
Aedes vexans	7,112.0	39.8%
Culex pipiens	34.0	0.2%
Culex tarsalis	357.0	2.0%
Culiseta inornata	45.0	0.3%

Genus Proportions:

Genus	Number	Percent of Total
Aedes/Ochlerotatus	17,426.0	97.6%
Anopheles	0.0	0.0%
Culex	391.0	2.2%
Culiseta	45.0	0.3%
Other	0.0	0.0%

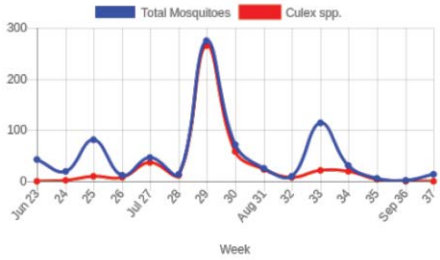


FC-068

Season: 04/01/2023 - 09/22/2023
Trap Type: CDC Light Trap
Location: 5029 Crest Dr
GPS: 40.516000124446485, -105.08547004312277

Total number of trap/nights set:	15.0
Total number of mosquitoes collected:	761.0
Average mosquitoes per trap/night:	50.7
Average Culex per trap/night:	31.1

Seasonality

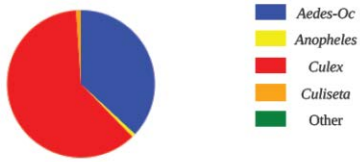


Species collected and abundance:

Aedes dorsalis	46.0	6.0%
Aedes melanimon	8.0	1.1%
Aedes vexans	227.0	29.8%
Anopheles freeborni	6.0	0.8%
Culex pipiens	14.0	1.8%
Culex tarsalis	452.0	59.4%
Culiseta inornata	8.0	1.1%

Genus Proportions:

Genus	Number	Percent of Total
Aedes/Ochlerotatus	281.0	36.9%
Anopheles	6.0	0.8%
Culex	466.0	61.2%
Culiseta	8.0	1.1%
Other	0.0	0.0%

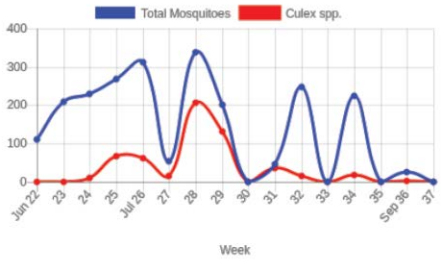


FC-069

Season: 04/01/2023 - 09/22/2023
Trap Type: CDC Light Trap
Location: Linden Lake Rd
GPS: 40.61451923788414, -105.05314875394106

Total number of trap/nights set:	15.0
Total number of mosquitoes collected:	2,272.0
Average mosquitoes per trap/night:	151.5
Average Culex per trap/night:	37.7

Seasonality

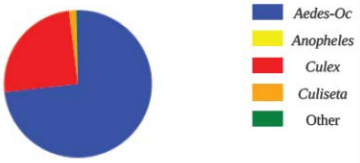


Species collected and abundance:

Aedes dorsalis	142.0	6.3%
Aedes increpitus	93.0	4.1%
Aedes melanimon	107.0	4.7%
Aedes trivittatus	1.0	0.0%
Aedes vexans	1,320.0	58.1%
Coquillettidia perturbans	8.0	0.4%
Culex pipiens	31.0	1.4%
Culex tarsalis	534.0	23.5%
Culiseta inornata	36.0	1.6%

Genus Proportions:

Genus	Number	Percent of Total
Aedes/Ochlerotatus	1,663.0	73.2%
Anopheles	0.0	0.0%
Culex	565.0	24.9%
Culiseta	36.0	1.6%
Other	8.0	0.4%

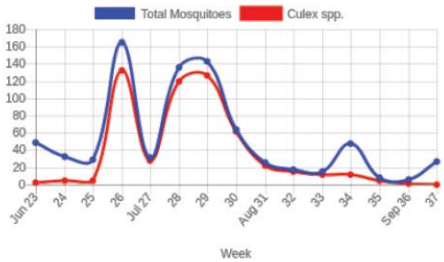


FC-071

Season: 04/01/2023 - 09/22/2023
Trap Type: CDC Light Trap
Location: Silvergate Rd
GPS: 40.52733008634481, -105.10821014642715

Total number of trap/nights set:	15.0
Total number of mosquitoes collected:	795.0
Average mosquitoes per trap/night:	53.0
Average Culex per trap/night:	36.1

Seasonality

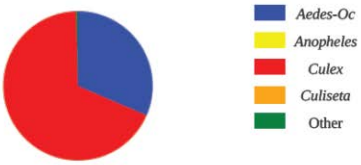


Species collected and abundance:

Aedes dorsalis	42.0	5.3%
Aedes increpitus	9.0	1.1%
Aedes melanimon	1.0	0.1%
Aedes trivittatus	1.0	0.1%
Aedes vexans	197.0	24.8%
Coquillettidia perturbans	3.0	0.4%
Culex pipiens	24.0	3.0%
Culex tarsalis	518.0	65.2%

Genus Proportions:

Genus	Number	Percent of Total
Aedes/Ochlerotatus	250.0	31.4%
Anopheles	0.0	0.0%
Culex	542.0	68.2%
Culiseta	0.0	0.0%
Other	3.0	0.4%

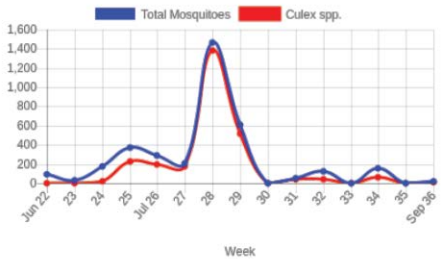


FC-072

Season: 04/01/2023 - 09/22/2023
Trap Type: CDC Light Trap
Location: 422 Lake Dr
GPS: 40.569530106375986, -105.07116984575985

Total number of trap/nights set:	14.0
Total number of mosquitoes collected:	3,567.0
Average mosquitoes per trap/night:	254.8
Average Culex per trap/night:	189.7

Seasonality

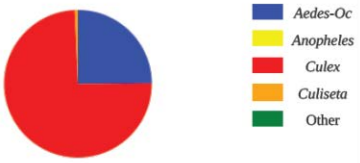


Species collected and abundance:

Aedes dorsalis	19.0	0.5%
Aedes hendersoni	3.0	0.1%
Aedes increpitus	10.0	0.3%
Aedes melanimon	21.0	0.6%
Aedes trivittatus	4.0	0.1%
Aedes vexans	829.0	23.2%
Culex pipiens	104.0	2.9%
Culex tarsalis	2,552.0	71.5%
Culiseta inornata	25.0	0.7%

Genus Proportions:

Genus	Number	Percent of Total
Aedes/Ochlerotatus	886.0	24.8%
Anopheles	0.0	0.0%
Culex	2,656.0	74.5%
Culiseta	25.0	0.7%
Other	0.0	0.0%

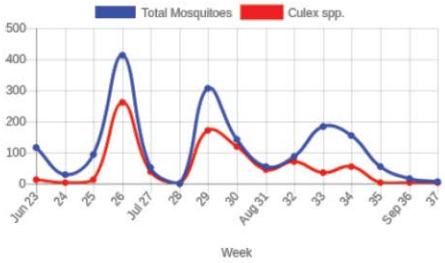


FC-073

Season: 04/01/2023 - 09/22/2023
Trap Type: CDC Light Trap
Location: 118 S Grant
GPS: 40.58634003233039, -105.08899983018637

Total number of trap/nights set:	14.0
Total number of mosquitoes collected:	1,703.0
Average mosquitoes per trap/night:	121.6
Average Culex per trap/night:	59.9

Seasonality

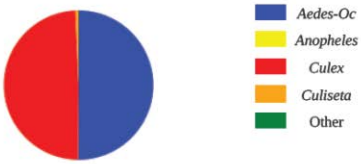


Species collected and abundance:

Aedes dorsalis	29.0	1.7%
Aedes increpitus	12.0	0.7%
Aedes melanimon	15.0	0.9%
Aedes vexans	797.0	46.8%
Culex pipiens	99.0	5.8%
Culex tarsalis	739.0	43.4%
Culiseta inornata	12.0	0.7%

Genus Proportions:

Genus	Number	Percent of Total
Aedes/Ochlerotatus	853.0	50.1%
Anopheles	0.0	0.0%
Culex	838.0	49.2%
Culiseta	12.0	0.7%
Other	0.0	0.0%

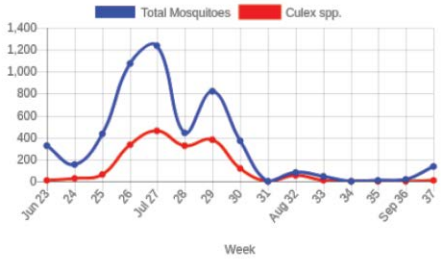


FC-074

Season: 04/01/2023 - 09/22/2023
Trap Type: CDC Light Trap
Location: Rock Creek
GPS: 40.513749705683445, -105.00338338315488

Total number of trap/nights set:	15.0
Total number of mosquitoes collected:	5,130.0
Average mosquitoes per trap/night:	342.0
Average Culex per trap/night:	118.9

Seasonality

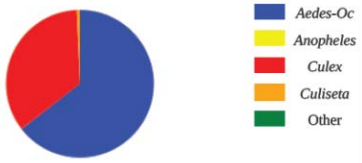


Species collected and abundance:

Aedes dorsalis	571.0	11.1%
Aedes increpitus	2.0	0.0%
Aedes melanimon	122.0	2.4%
Aedes nigromaculis	4.0	0.1%
Aedes vexans	2,608.0	50.8%
Anopheles freeborni	3.0	0.1%
Culex pipiens	59.0	1.2%
Culex tarsalis	1,725.0	33.6%
Culiseta inornata	36.0	0.7%

Genus Proportions:

Genus	Number	Percent of Total
Aedes/Ochlerotatus	3,307.0	64.5%
Anopheles	3.0	0.1%
Culex	1,784.0	34.8%
Culiseta	36.0	0.7%
Other	0.0	0.0%

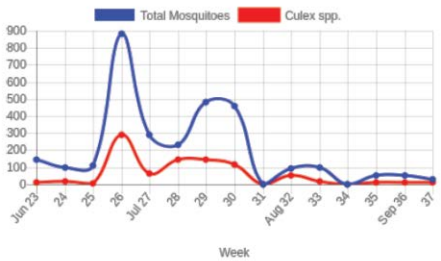


FC-075

Season: 04/01/2023 - 09/22/2023
Trap Type: CDC Light Trap
Location: Sage Creek North
GPS: 40.511379917024655, -105.01986991614105

Total number of trap/nights set:	15.0
Total number of mosquitoes collected:	3,022.0
Average mosquitoes per trap/night:	201.5
Average Culex per trap/night:	59.5

Seasonality

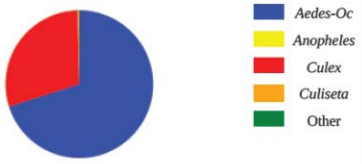


Species collected and abundance:

Aedes dorsalis	40.0	1.3%
Aedes increpitus	19.0	0.6%
Aedes melanimon	15.0	0.5%
Aedes trivittatus	6.0	0.2%
Aedes vexans	2,038.0	67.4%
Culex pipiens	110.0	3.6%
Culex tarsalis	782.0	25.9%
Culiseta inornata	12.0	0.4%

Genus Proportions:

Genus	Number	Percent of Total
Aedes/Ochlerotatus	2,118.0	70.1%
Anopheles	0.0	0.0%
Culex	892.0	29.5%
Culiseta	12.0	0.4%
Other	0.0	0.0%

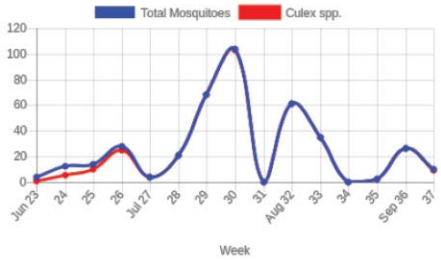


FC-075gr

Season: 04/01/2023 - 09/22/2023
Trap Type: Gravid Trap
Location: Sage Creek North Gravid
GPS: 40.511379917024655, -105.02936996519566

Total number of trap/nights set:	15.0
Total number of mosquitoes collected:	389.0
Average mosquitoes per trap/night:	25.9
Average Culex per trap/night:	24.7

Seasonality



Species collected and abundance:

Aedes increpitus	1.0	0.3%
Aedes vexans	13.0	3.3%
Culex pipiens	344.0	88.4%
Culex tarsalis	26.0	6.7%
Culiseta inornata	5.0	1.3%

Genus Proportions:

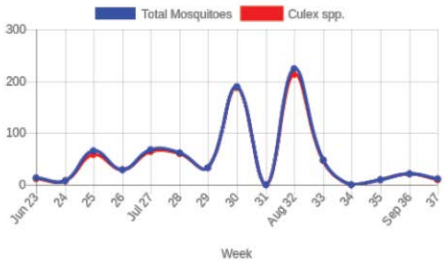
Genus	Number	Percent of Total
Aedes/Ochlerotatus	14.0	3.6%
Anopheles	0.0	0.0%
Culex	370.0	95.1%
Culiseta	5.0	1.3%
Other	0.0	0.0%

FC-088gr

Season: 04/01/2023 - 09/22/2023
Trap Type: Gravid Trap
Location: English Ranch Park Gravid
GPS: 40.53330994364783, -105.0305300205946

Total number of trap/nights set:	15.0
Total number of mosquitoes collected:	781.0
Average mosquitoes per trap/night:	52.1
Average Culex per trap/night:	49.7

Seasonality



Species collected and abundance:

Aedes vexans	24.0	3.1%
Culex pipiens	738.0	94.5%
Culex tarsalis	7.0	0.9%
Culiseta inornata	12.0	1.5%

Genus Proportions:

Genus	Number	Percent of Total
Aedes/Ochlerotatus	24.0	3.1%
Anopheles	0.0	0.0%
Culex	745.0	95.4%
Culiseta	12.0	1.5%
Other	0.0	0.0%

FC-089gr

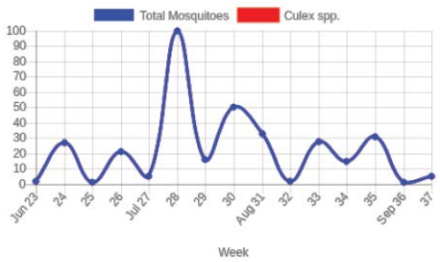
Season: 04/01/2023 - 09/22/2023
Trap Type: Gravid Trap
Location: Kunz Ct. and Brook Dr. Gravid
GPS: 40.53631011931944, -105.10056015104055

Total number of trap/nights set:	15.0
Total number of mosquitoes collected:	337.0
Average mosquitoes per trap/night:	22.5
Average Culex per trap/night:	22.5

Species collected and abundance:

Culex pipiens	335.0	99.4%
Culex tarsalis	2.0	0.6%

Seasonality



Genus Proportions:

Genus	Number	Percent of Total
Aedes/Ochlerotatus	0.0	0.0%
Anopheles	0.0	0.0%
Culex	337.0	100.0%
Culiseta	0.0	0.0%
Other	0.0	0.0%

FC-090gr

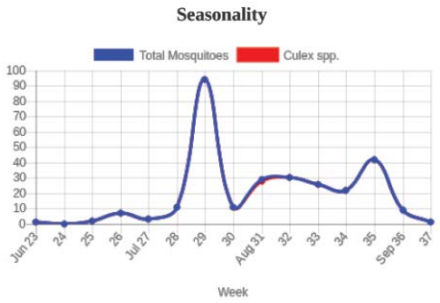
Season: 04/01/2023 - 09/22/2023
Trap Type: Gravid Trap
Location: Mountain Grandview Cemetery Gravid
GPS: 40.58195995773713, -105.111360065639

Total number of trap/nights set:	15.0
Total number of mosquitoes collected:	288.0
Average mosquitoes per trap/night:	19.2
Average Culex per trap/night:	19.1

Species collected and abundance:

Culex pipiens	285.0	99.0%
Culex tarsalis	2.0	0.7%
Culiseta inornata	1.0	0.3%

Seasonality



Genus Proportions:

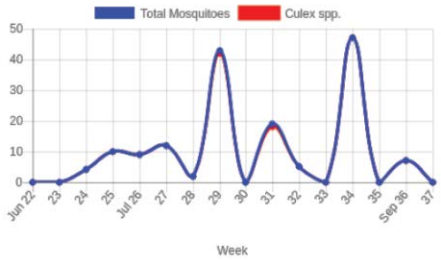
Genus	Number	Percent of Total
Aedes/Ochlerotatus	0.0	0.0%
Anopheles	0.0	0.0%
Culex	287.0	99.7%
Culiseta	1.0	0.3%
Other	0.0	0.0%

FC-091gr

Season: 04/01/2023 - 09/22/2023
Trap Type: Gravid Trap
Location: PVH Gravid
GPS: 40.570520046200166, -105.05456998944281

Total number of trap/nights set:	15.0
Total number of mosquitoes collected:	158.0
Average mosquitoes per trap/night:	10.5
Average Culex per trap/night:	10.4

Seasonality



Species collected and abundance:

Aedes increpitus	1.0	0.6%
Culex pipiens	149.0	94.3%
Culex tarsalis	7.0	4.4%
Culiseta inornata	1.0	0.6%

Genus Proportions:

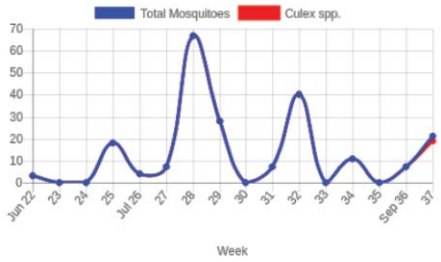
Genus	Number	Percent of Total
Aedes/Ochlerotatus	1.0	0.6%
Anopheles	0.0	0.0%
Culex	156.0	98.7%
Culiseta	1.0	0.6%
Other	0.0	0.0%

FC-092gr

Season: 04/01/2023 - 09/22/2023
Trap Type: Gravid Trap
Location: Udall Natural Gravid
GPS: 40.587873321668276, -105.06916154175995

Total number of trap/nights set:	15.0
Total number of mosquitoes collected:	213.0
Average mosquitoes per trap/night:	14.2
Average Culex per trap/night:	14.1

Seasonality



Species collected and abundance:

Aedes vexans	1.0	0.5%
Anopheles freeborni	1.0	0.5%
Culex pipiens	210.0	98.6%
Culex tarsalis	1.0	0.5%

Genus Proportions:

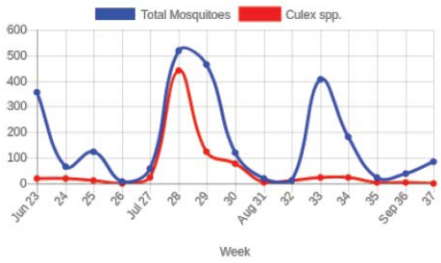
Genus	Number	Percent of Total
Aedes/Ochlerotatus	1.0	0.5%
Anopheles	1.0	0.5%
Culex	211.0	99.1%
Culiseta	0.0	0.0%
Other	0.0	0.0%

FC-093

Season: 04/01/2023 - 09/22/2023
Trap Type: CDC Light Trap
Location: Lopez Elementary
GPS: 40.53186000594886, -105.0882501527667

Total number of trap/nights set:	15.0
Total number of mosquitoes collected:	2,475.0
Average mosquitoes per trap/night:	165.0
Average Culex per trap/night:	52.0

Seasonality

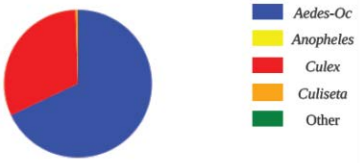


Species collected and abundance:

Aedes dorsalis	60.0	2.4%
Aedes increpitus	5.0	0.2%
Aedes melanimon	39.0	1.6%
Aedes vexans	1,578.0	63.8%
Culex pipiens	40.0	1.6%
Culex tarsalis	740.0	29.9%
Culiseta inornata	13.0	0.5%

Genus Proportions:

Genus	Number	Percent of Total
Aedes/Ochlerotatus	1,682.0	68.0%
Anopheles	0.0	0.0%
Culex	780.0	31.5%
Culiseta	13.0	0.5%
Other	0.0	0.0%



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

2023 WNV Positive Pools

Start Date: 05/01/2023 **End Date:** 09/20/2023

Berthoud

Trap Location	Total Positive Pools
Berthoud East	6
Berthoud North	2
Berthoud Park	4
Berthoud Point	3
Berthoud West	2

Total Positive: 17

2023 WNV Positive Pools

Start Date: 05/01/2023 **End Date:** 09/20/2023

Loveland

Trap Location	Total Positive Pools
9th and DesMoines	6
Big Thompson	1
Boyd Lake	7
Cattail Pond	6
Cr 20 and 9	2
Horseshoe Pennninsula	1

Total Positive: 23

2023 WNV Positive Pools

Start Date: 05/01/2023 **End Date:** 09/20/2023

Fort Collins

Trap Location	Total Positive Pools
118 S Grant	3
3001 San Luis	0
422 Lake Dr	6
5029 Crest Dr	0
603 Gilgalad Way	2
737 Parliament	3
808 Ponderosa	1
821 W Lake St, Fort Collins, CO 80521, USA	4
Ben's Park	3
Ben's Park Gravid	6
Big Horn	3
Boltz	1
Casa Grande and Downing	1
Chelsea Ridge	12
Country Club	2
Edora Park	3
Egret and Rookery	6
English Ranch Park Gravid	8
FC Visitor Center	6
Fishback	2
Fossil Creek South	13
Golden Current	4
Golden Meadows Ditch	0
Hemlock	1
Keeneland And Twin Oak	2
Kunz Ct. and Brook Dr. Gravid	3
Linden Lake Rd	4
Lochside Lane	4
Lopez Elementary	4
Magic Carpet	6
Mountain Grandview Cemetery Gravid	2

Trap Location	Total Positive Pools
N. Linden	1
Poudre River Trail	2
Prospect Ponds	2
Prospect Ponds Gravid	1
PVH Gravid	3
Red Fox Meadows	1
Red Fox Meadows Gravid	12
Redwood	3
Redwood Gravid	4
Registry Ridge	4
Rock Creek	3
Sage Creek North	3
Sage Creek North Gravid	5
Silvergate Rd	3
Spring Creek Trail-- Michener Dr	0
Springwood and Lochwood	2
Stuart and Dorset	0
Udall Natural Gravid	2
Water's Edge at Blue Mesa	1
West Chase	8
Westshore Ct	2
Willow Springs	9

Total Positive: 186

Appendix 3: Ground Adult Mosquito Control Application Data

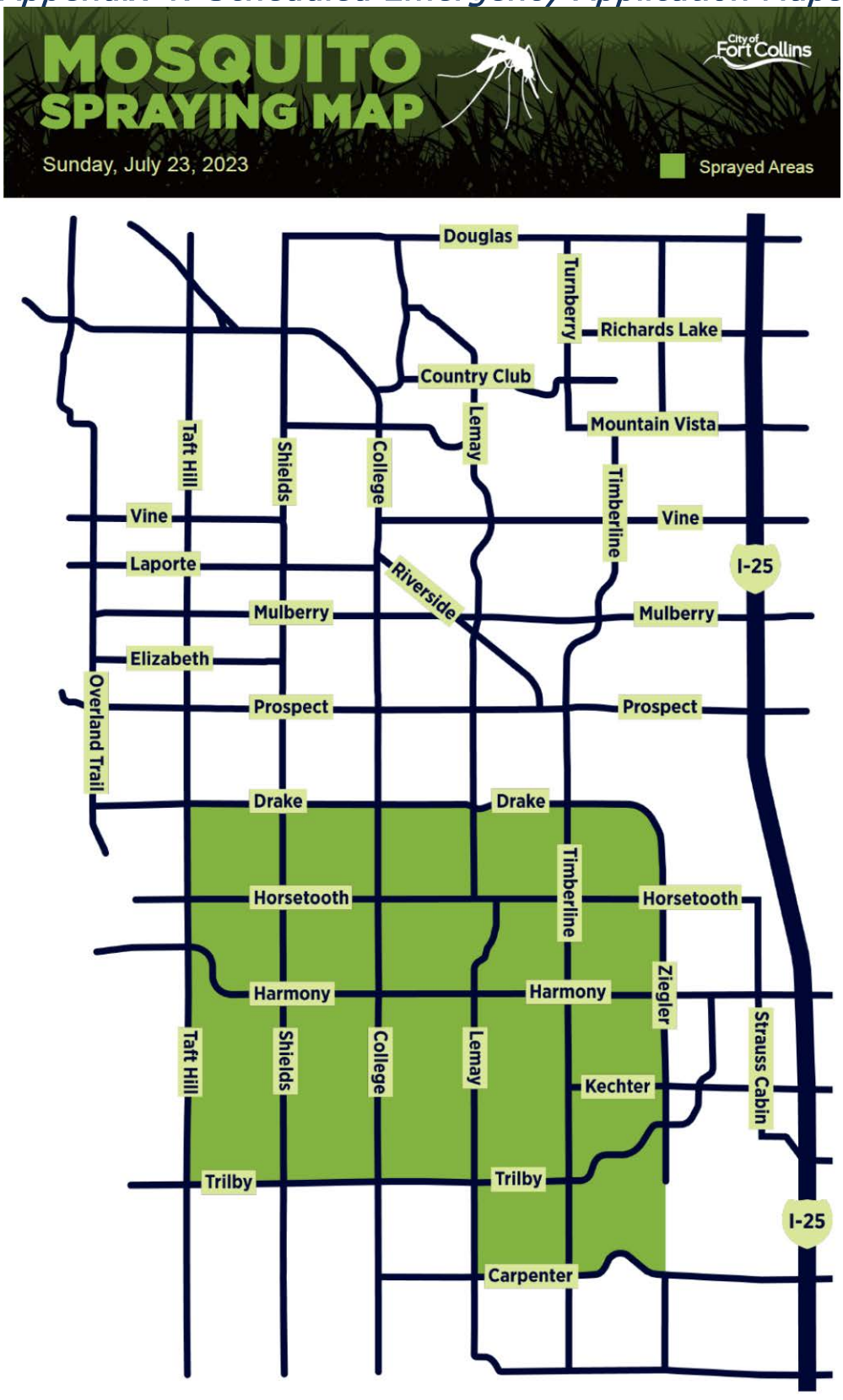
Contract	Date	Zone	Spray Miles	Ounces Sprayed
Fort Collins	7/23/2023	FC5	12.71	455.36
Fort Collins	7/23/2023	FC7	7.88	278
Fort Collins	7/23/2023	FC2	12.34	447.5
Fort Collins	7/23/2023	FC4	17.3	617.28
Fort Collins	7/23/2023	FC2	9.4	332.05
Fort Collins	7/23/2023	FC2	14.67	524.35
Fort Collins	7/23/2023	FC5	15.62	561.64
Fort Collins	7/23/2023	FC4	13.88	501.12
Fort Collins	7/23/2023	FC2	5.11	188.86
Fort Collins	7/23/2023	FC1	9.62	347.67
Fort Collins	7/23/2023	FC3	15.83	575.54
Fort Collins	7/23/2023	FC6	12.33	441
Fort Collins	7/23/2023	FC2	6.71	248.15
Fort Collins	7/24/2023	FC3	14.42	514.99
Fort Collins	7/24/2023	FC2	15.52	557.76
Fort Collins	7/24/2023	FC7	6.89	245.65
Fort Collins	7/24/2023	FC3	8.89	316.69
Fort Collins	7/24/2023	FC7	3.84	136.61
Fort Collins	7/24/2023	FC6	9.67	342.92
Fort Collins	7/24/2023	FC5	13.99	497.69
Fort Collins	7/24/2023	FC4	5.59	198.9
Fort Collins	7/30/2023	FC4	17.2	620.11
Fort Collins	7/30/2023	FC6	16.26	582.69
Fort Collins	7/30/2023	FC6	13.15	472.78
Fort Collins	7/30/2023	FC6	7.94	287.23
Fort Collins	7/30/2023	FC7	23.03	818.16
Fort Collins	7/30/2023	FC7	6.74	243.4
Fort Collins	7/30/2023	FC7	6.64	237.41
Fort Collins	7/30/2023	FC6	4.12	147.1
Fort Collins	7/30/2023	FC7	8.42	301.66
Fort Collins	7/30/2023	FC6	10.4	373.08
Fort Collins	7/30/2023	FC7	7.09	252.96
Fort Collins	7/31/2023	FC7	5.01	176.79
Fort Collins	8/6/2023	FC7	20.28	736.4
Fort Collins	8/6/2023	FC1	10.29	372.79
Fort Collins	8/6/2023	FC4	8.33	266.29
Fort Collins	8/6/2023	FC2	12.45	450.77

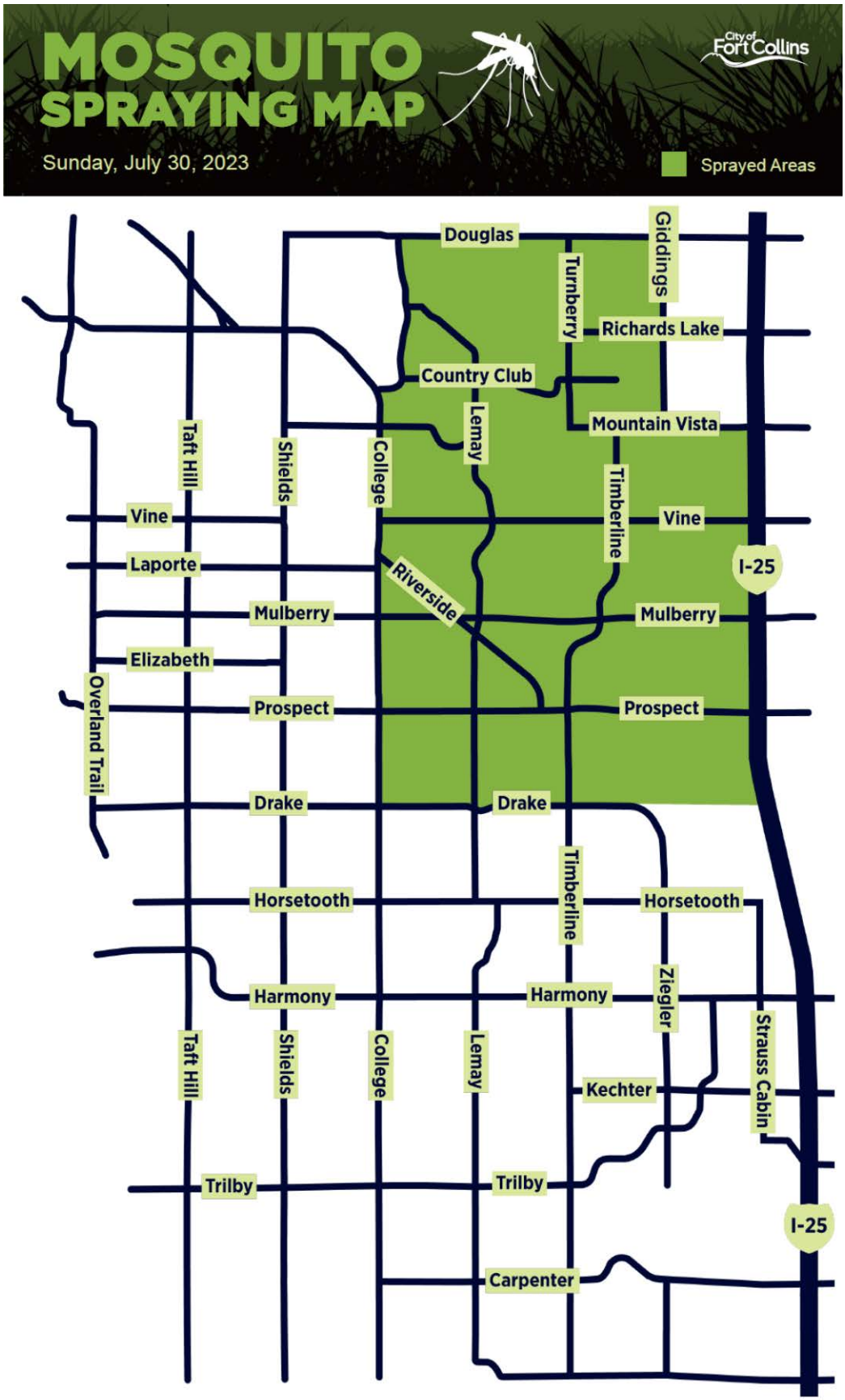
Fort Collins	8/6/2023	FC3	15.25	552.78
Fort Collins	8/6/2023	FC1	17.47	573.52
Fort Collins	8/6/2023	FC4	5.53	184.02
Fort Collins	8/6/2023	FC3	13.89	501.38
Fort Collins	8/7/2023	FC1	9.61	296.94
Fort Collins	8/7/2023	FC1	15.97	568.42
Fort Collins	8/7/2023	FC2	7.3	267.26
Fort Collins	8/7/2023	FC1	14.68	530.88
Fort Collins	8/13/2023	FC6	10.02	365.28
Fort Collins	8/13/2023	FC6	9.19	327.13
Fort Collins	8/13/2023	FC4	16.98	611.98
Fort Collins	8/13/2023	FC1	9.84	357.5
Fort Collins	8/13/2023	FC2	12.23	432.29
Fort Collins	8/13/2023	FC4	5.49	197.33
Fort Collins	8/13/2023	FC2	11.25	397.03
Fort Collins	8/13/2023	FC6	11.69	414
Fort Collins	8/13/2023	FC5	13.07	467.75
Fort Collins	8/13/2023	FC2	14.03	507.22
Fort Collins	8/13/2023	FC5	15.19	542.36
Fort Collins	8/13/2023	FC5	16.36	583.17
Fort Collins	8/13/2023	FC4	13.74	489.32
Fort Collins	8/13/2023	FC1	12.04	426.11
Fort Collins	8/13/2023	FC3	9.02	325.22
Fort Collins	8/14/2023	FC3	12.11	430.13
Fort Collins	8/14/2023	FC4	6.59	237.17
Fort Collins	8/20/2023	FC1	6.74	238.94
Fort Collins	8/20/2023	FC7	7	253.15
Fort Collins	8/20/2023	FC7	3.81	140.37
Fort Collins	8/20/2023	FC4	17.14	610.21
Fort Collins	8/20/2023	FC7	5.38	191.76
Fort Collins	8/20/2023	FC7	8.23	291.28
Fort Collins	8/20/2023	FC6	13.66	488.6
Fort Collins	8/20/2023	FC7	5.13	185.91
Fort Collins	8/21/2023	FC7	7.42	264.13
Fort Collins	8/21/2023	FC6	8.1	292.34
Fort Collins	8/21/2023	FC6	16.36	585.12
Fort Collins	8/21/2023	FC7	23.26	832.2
Fort Collins	8/21/2023	FC1	8.34	299.97
Fort Collins	8/21/2023	FC6	3.32	118.78
Fort Collins	8/21/2023	FC1	7.29	264.8
Fort Collins	8/21/2023	FC1	9.08	324.2
Fort Collins	8/27/2023	FC7	6.58	241.14

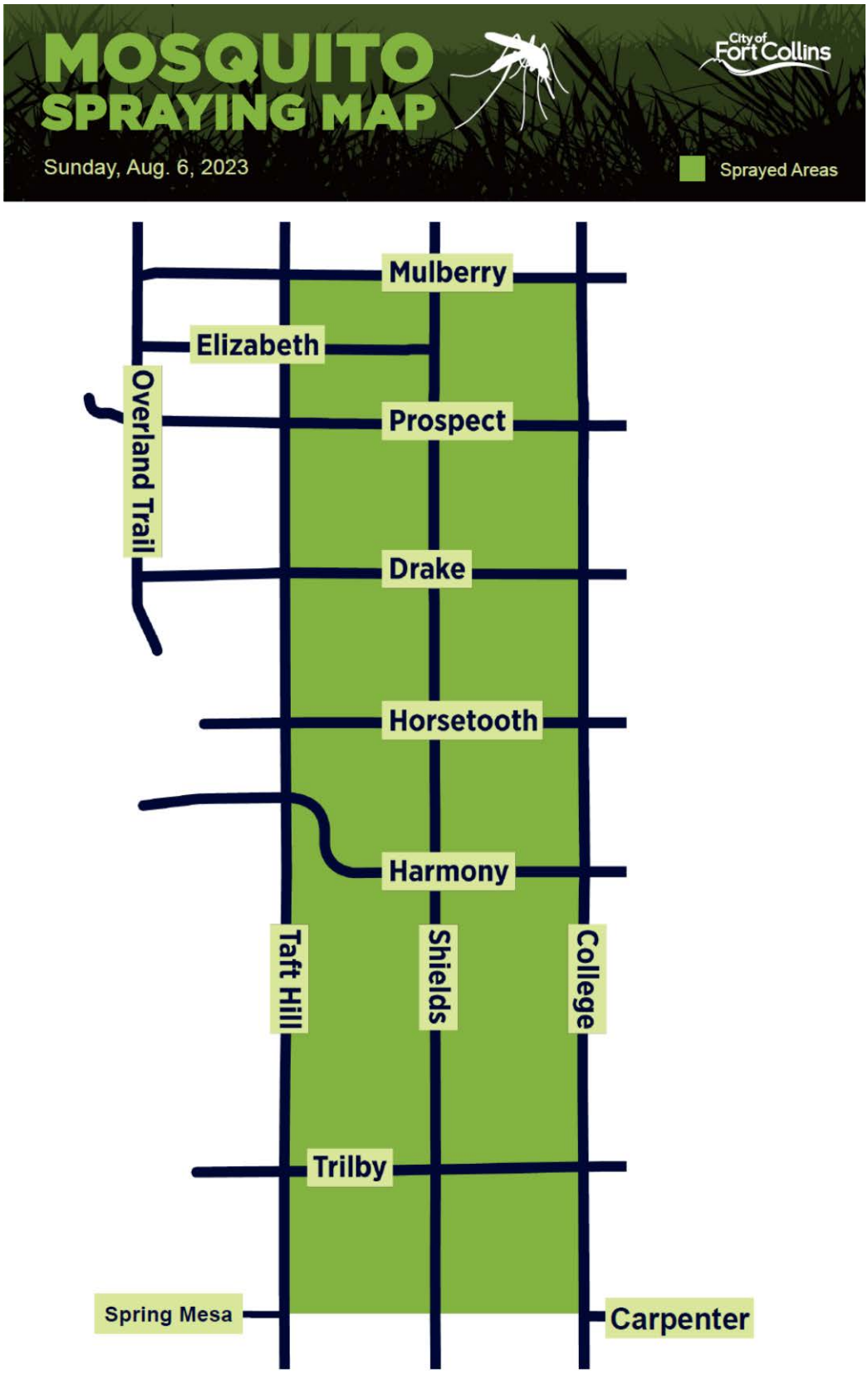
Fort Collins	8/27/2023	FC2	12.07	429.42
Fort Collins	8/27/2023	FC7	4.22	149.25
Fort Collins	8/27/2023	FC4	5.3	188.35
Fort Collins	8/27/2023	FC4	8.44	304.65
Fort Collins	8/27/2023	FC7	8.45	306.11
Fort Collins	8/27/2023	FC2	13.56	487.12

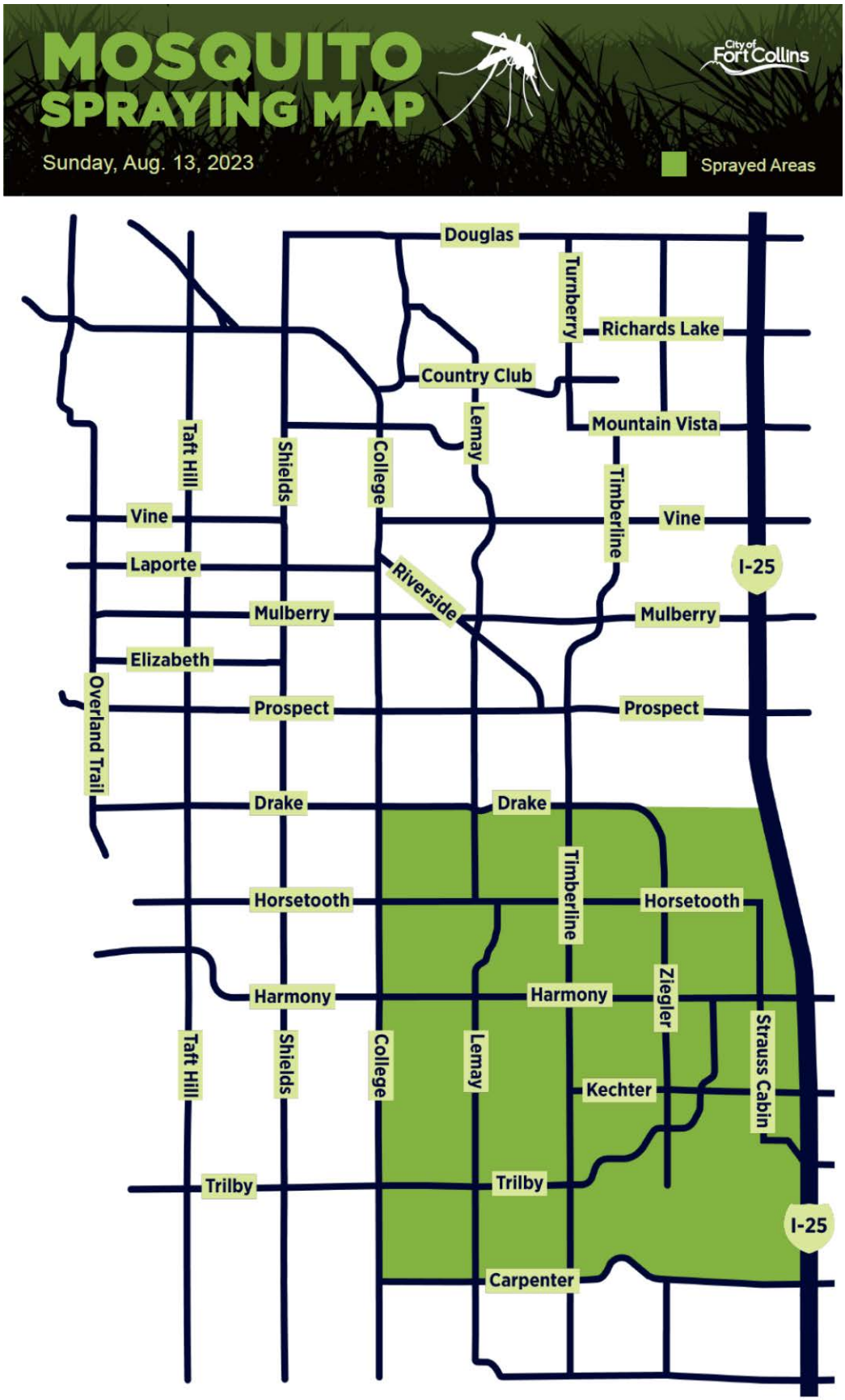
Totals	916.98	32,743.34

Appendix 4: Scheduled Emergency Application Maps

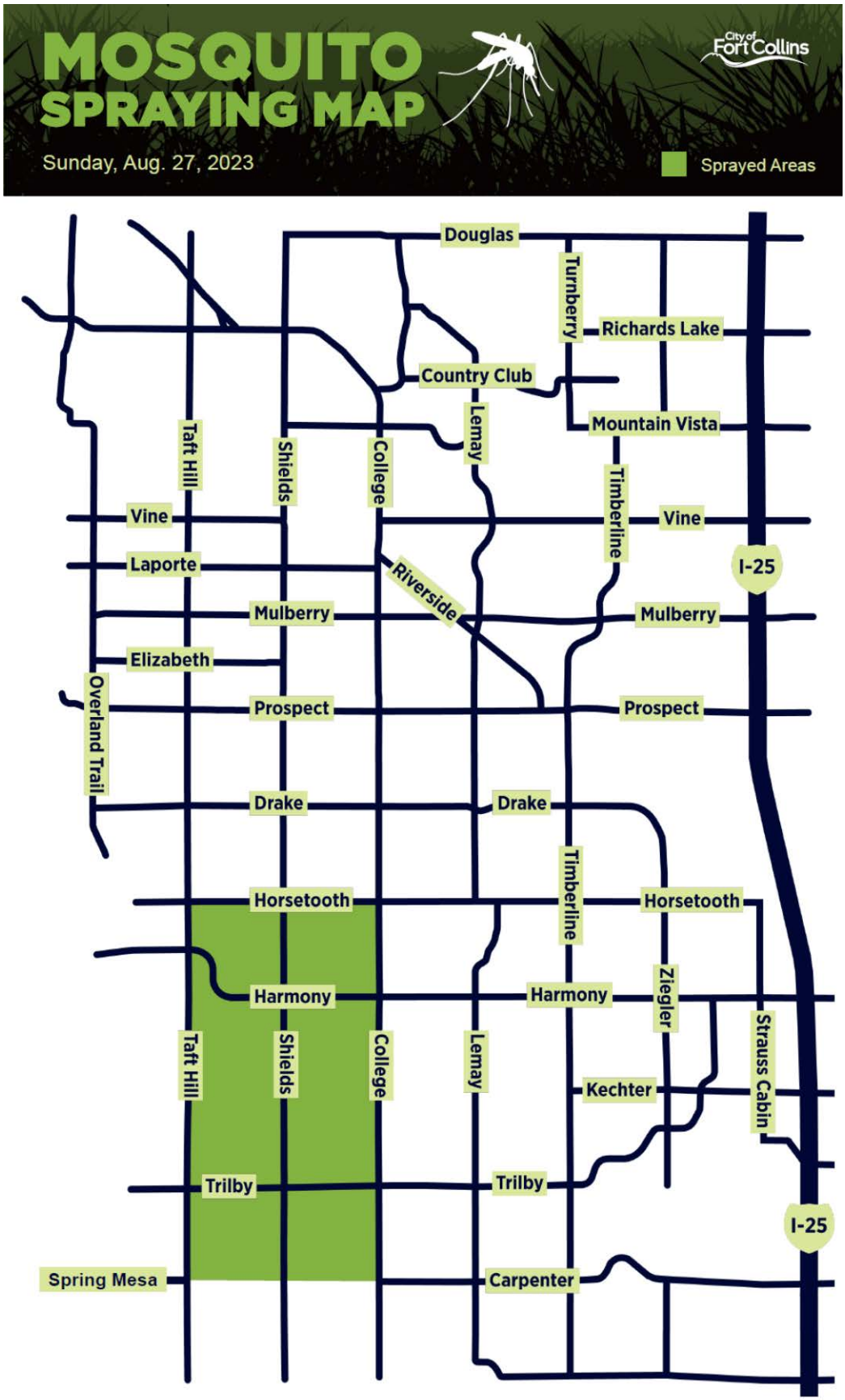



MOSQUITO
SPRAYING MAP
City of Fort Collins
Sunday, July 30, 2023
Sprayed Areas
Douglas
Giddings
Turnberry
Richards Lake
Country Club
Lemay
Mountain Vista
Taft Hill
Shields
College
Timberline
Vine
Vine
Laporte
Riverside
I-25
Mulberry
Mulberry
Elizabeth
Overland Trail
Prospect
Prospect
Drake
Drake
Timberline
Horsetooth
Horsetooth
Harmony
Harmony
Ziegler
Strauss Cabin
Taft Hill
Shields
College
Lemay
Kechter
Trilby
Trilby
I-25
Carpenter


MOSQUITO
SPRAYING MAP
City of Fort Collins
Sunday, Aug. 6, 2023
Sprayed Areas
Mulberry
Elizabeth
Overland Trail
Prospect
Drake
Horsetooth
Harmony
Taft Hill
Shields
College
Trilby
Spring Mesa
Carpenter


MOSQUITO
SPRAYING MAP
Sunday, Aug. 13, 2023
City of Fort Collins
Sprayed Areas
Douglas
Turnberry
Richards Lake
Country Club
Lemay
Mountain Vista
Taft Hill
Shields
College
Timberline
Vine
Vine
Laporte
Riverside
I-25
Mulberry
Mulberry
Elizabeth
Overland Trail
Prospect
Prospect
Drake
Drake
Timberline
Horsetooth
Horsetooth
Harmony
Harmony
Ziegler
Strauss Cabin
Taft Hill
Shields
College
Lemay
Kechter
Trilby
Trilby
I-25
Carpenter


MOSQUITO
SPRAYING MAP
Sunday, August 20
Sprayed Areas
Douglas
Turnberry
Richards Lake
Country Club
Lemay
Mountain Vista
Taft Hill
Shields
College
Timberline
Vine
Vine
Laporte
Riverside
I-25
Mulberry
Mulberry
Elizabeth
Overland Trail
Prospect
Prospect
Drake
Drake


MOSQUITO
SPRAYING MAP
City of Fort Collins
Sunday, Aug. 27, 2023
Sprayed Areas
Douglas
Turnberry
Richards Lake
Country Club
Lemay
Mountain Vista
Taft Hill
Shields
College
Timberline
Vine
Vine
Laporte
Riverside
I-25
Mulberry
Mulberry
Elizabeth
Overland Trail
Prospect
Prospect
Drake
Drake
Timberline
Horsetooth
Horsetooth
Harmony
Harmony
Ziegler
Strauss Cabin
Taft Hill
Shields
College
Lemay
Kechter
Trilby
Trilby
I-25
Spring Mesa
Carpenter