



2022 Annual Report City of Fort Collins Mosquito Control Program



Vector Disease Control International
318 N. Garfield Ave Loveland, CO 80537
Phone 970-278-9977 Fax 866-929-1204
Website: www.vdci.net/Colorado

**City of Fort Collins
Mosquito Management Operations**

Annual Report For 2022

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Program Objectives

Vector Disease Control International, LLC (VDCI) completed its 19th year of cost-effective Integrated Mosquito Management (IMM) for the City of Fort Collins in 2022. The primary objective of Fort Collins' IMM Program is to monitor and reduce mosquito populations through the use of specific, environmentally sound, control techniques in order to protect its residents from the threat of mosquito-borne diseases. VDCI prioritizes the detection and elimination of larval mosquitoes in aquatic habitats, in conjunction with the monitoring of adult mosquito populations through routine surveillance, in order to assess West Nile virus vector species abundance in the area.

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

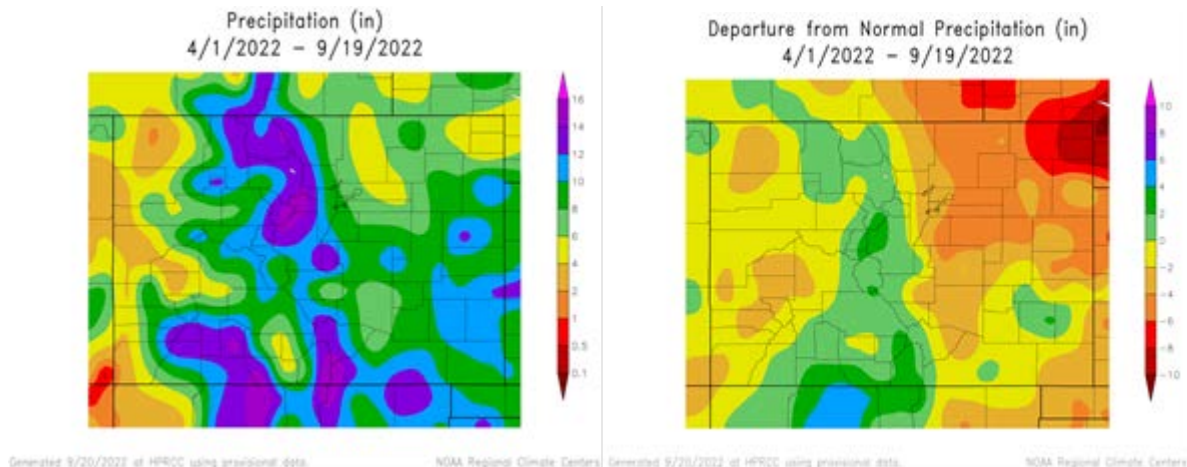
VDCI's Commitment

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

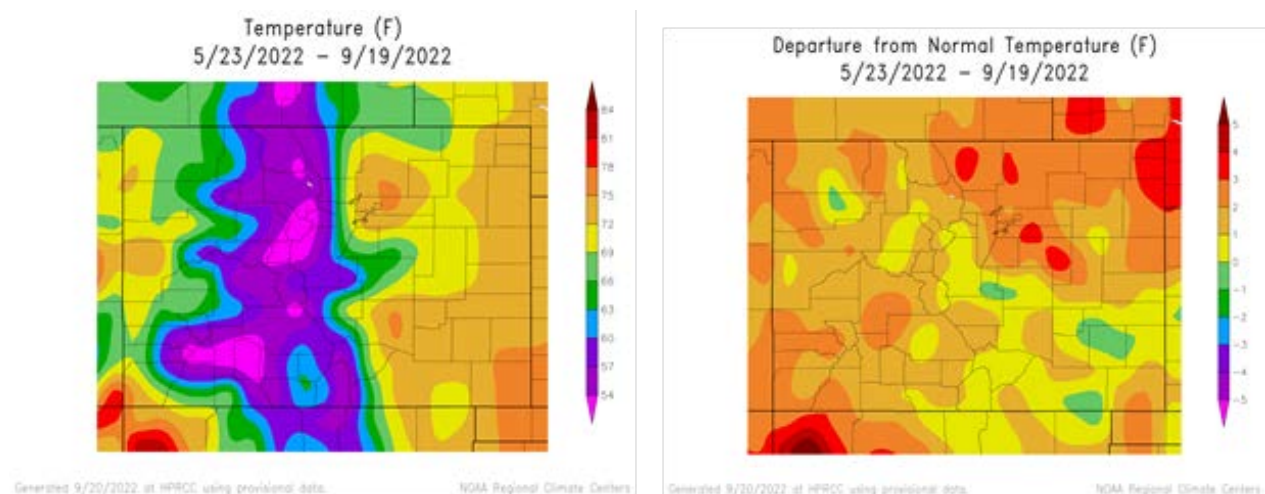
Vector Disease Control International, as the contractor for Fort Collins, will continue to use proven scientific Integrated Mosquito Management techniques to survey and control local mosquito populations using biorational larval controls and limited low-toxicity insecticide applications. All of the methods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

2022 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. Beginning the season in May, snowpack in North Platte Basin was 100% of normal, leading to a summer with little irrigation restrictions. During the summer of 2022, areas in Larimer and Weld counties received less than average precipitation. Due to the lack of precipitation, increased irrigation can lead to the increased proliferation of adult mosquitoes.



Temperatures throughout Northern Colorado seem to increase every summer and 2022 was no different. The 2022 season was hot, with Larimer and Weld counties consistently seeing temperatures above 90 degrees. However, once September came, the nightly lows began to dip into the 50s and even 40s, which greatly reduces both the mosquito life cycle and adult mosquito activity. However, some overwintering species, such as those in the genera *Culex* can and do move indoors in anticipation for the winter.

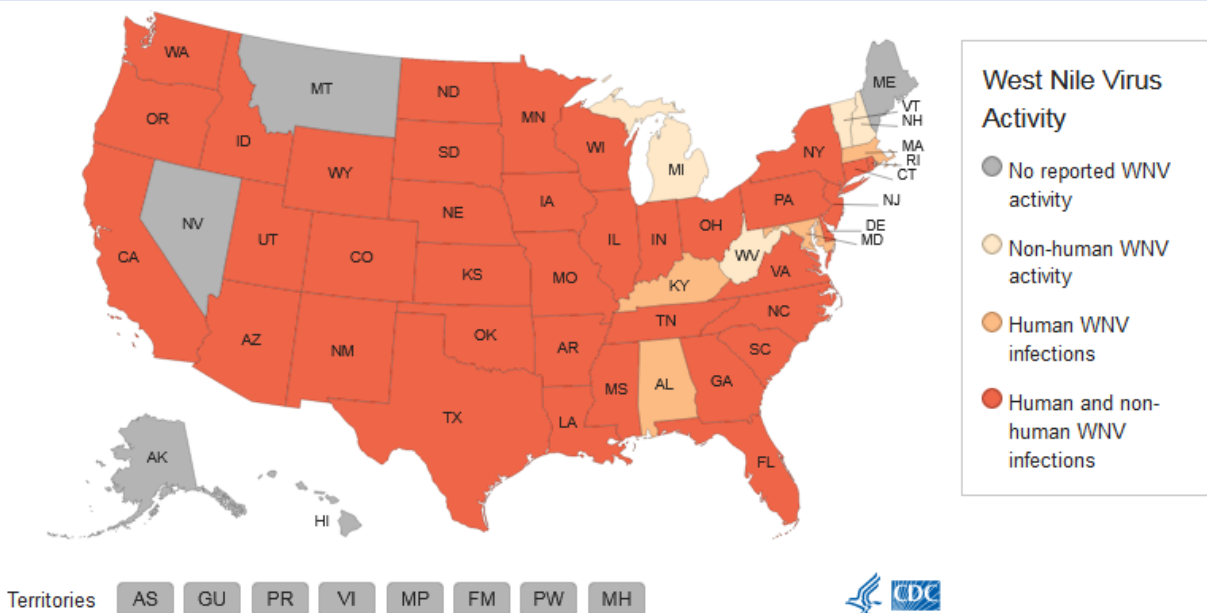


West Nile Virus Season

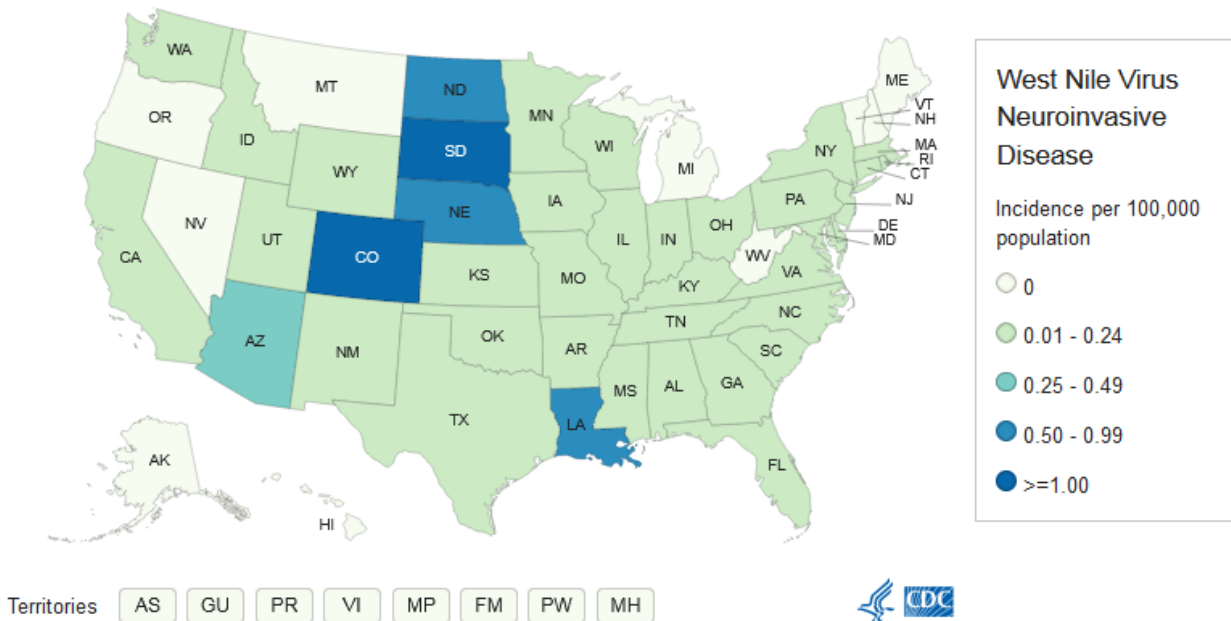
Since the introduction of West Nile virus to the United States in 1999, the virus has made a complete westward expansion to the West Coast. Starting in the Northeastern parts of the United States, the virus steadily spread through the South, the Midwest, the Rocky Mountain region, and to the Western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

As of October 4th, 2022, a total of 45 states and the District of Columbia have reported West Nile virus infections in people, birds, or mosquitoes. Overall, 656 cases of West Nile virus disease in people have been reported to CDC. Of these, 445 (68%) were classified as neuroinvasive disease (such as meningitis or encephalitis) and 211 (32%) were classified as non-neuroinvasive disease.

United States (as of October 4, 2022)



United States (as of October 4, 2022)

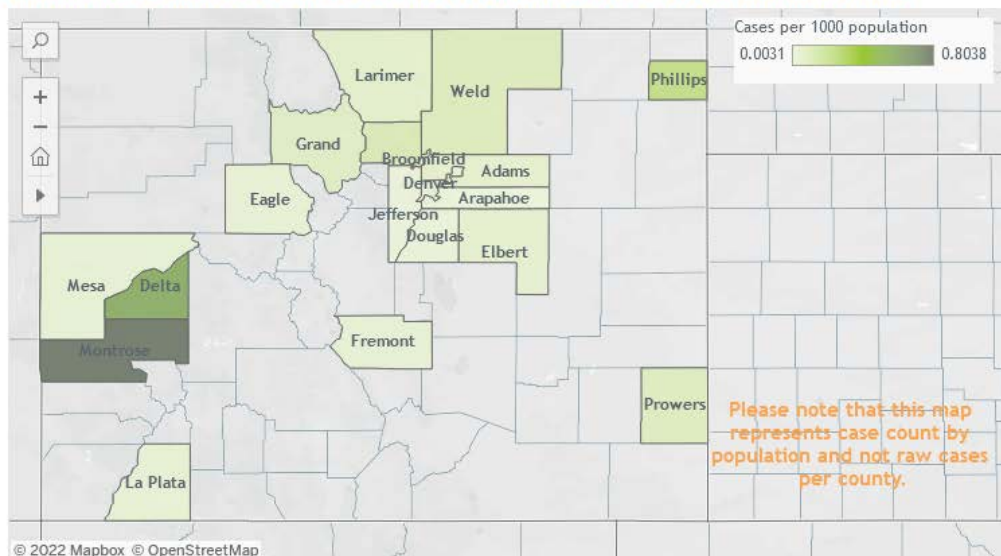


Colorado 2022

As of October 7th, 2022 The Colorado Department of Health and Environment reports a total of 180 human cases of West Nile virus infection from the state of Colorado. In Northern Colorado, 15 human cases are reported from Larimer County, and 29 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.

Nineteen counties across the state of Colorado have reported human West Nile virus infection. These include Adams, Arapahoe, Boulder, Broomfield, Delta, Denver, Douglas, Eagle, Elbert, Fremont, Grand, Jefferson, La Plata, Larimer, Mesa, Montrose, Phillips, Prowers, and Weld.

Human West Nile virus cases per 1000 population by county of residence, 2022



Cases per County

Adams	20	11.1%
Arapahoe	2	1.1%
Boulder	35	19.4%
Broomfield	6	3.3%
Delta	18	10.0%
Denver	5	2.8%
Douglas	3	1.7%
Eagle	1	0.6%
Elbert	1	0.6%
Fremont	1	0.6%
Grand	1	0.6%
Jefferson	3	1.7%
La Plata	1	0.6%
Larimer	15	8.3%
Mesa	3	1.7%
Montrose	34	18.9%
Phillips	1	0.6%
Prowers	1	0.6%
Weld	29	16.1%

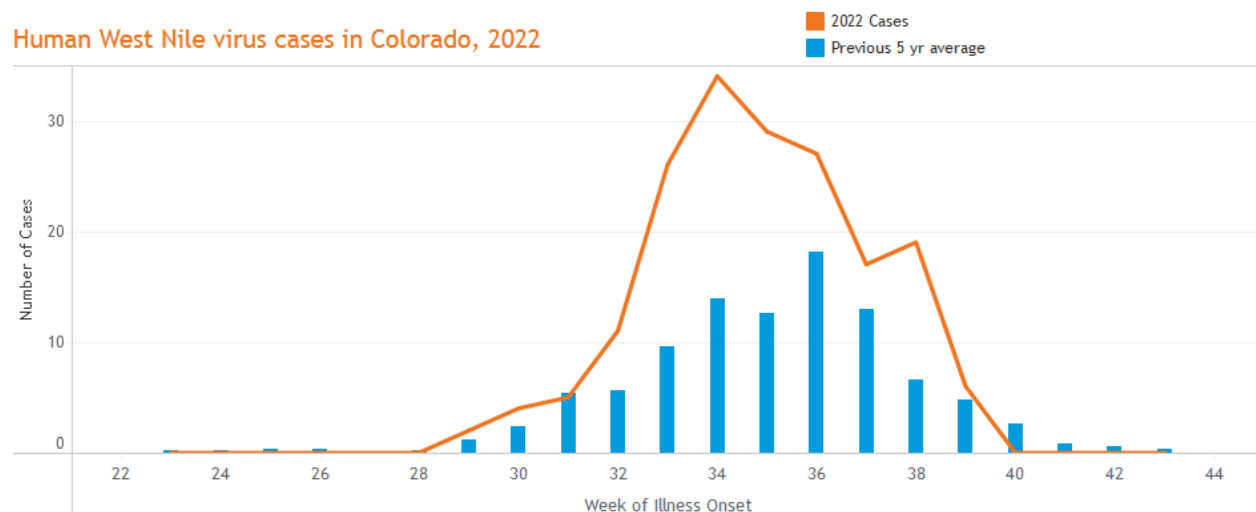
Human Cases: 180

Deaths: 12

Neuroinvasive Cases: 111

Hospitalized Cases: 122

Human West Nile virus cases in Colorado, 2022



Larval Mosquito Control

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

Pre-season larval control work involved ground truthing GIS maps and remapping areas where new development or flooding had altered the landscape. VDCI began larval site inspections in many areas mid-April. Hiring of seasonal field technicians began in March and continued into May. VDCI's Annual Field Technician Classroom Training Day took place on May 23rd with special online courses this year due to Covid-19. Field training by VDCI management and veteran employees lasted through May and full-time field activities were in full force by early June.

In 2022, Vector Disease Control field technicians performed 5,863 larval site inspections with Fort Collins, of which 4,118 (70.2%) were wet upon inspection, 2,180 (52.9% of wet sites) were producing mosquito larvae. To prevent these larvae from emerging as adult mosquitoes, VDCI applied 7,142.9 lbs. of VectoBac (Bti) and 13.0 gal of BVA 2 mineral oil to 1,458.1 acres of land.

During 2022, VDCI technicians performed site inspections at 79 residences as part of our backyard inspection program. VDCI also performed treatments at approximately 1,470 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 CO₂, 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 2022, 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 2022, there were 814 CDC light surveillance traps set within the City of Fort Collins, which collected a total of 97,104 mosquitoes. This year there was an average of 119.3 mosquitoes caught per trap per night and an average 45.9 *Culex* mosquitoes per trap per night. The composition of mosquitoes collected was 59.7% (58,008) *Aedes/Ochlerotatus spp.*, 38.4% (37,334) *Culex spp.*, and 1.9% (1,762) other species including *Culiseta* and *Anopheles spp.*

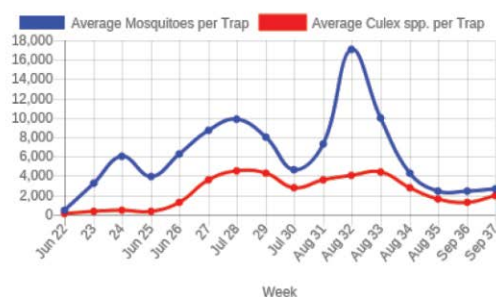
2022 Fort Collins Trap Composite Data

Total number of trap/nights set:	814
Total number of mosquitoes collected:	97,104.0
Average mosquitoes per trap/night:	119.3
Average Culex per trap/night:	45.9

Species collected and abundance:

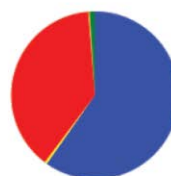
<i>Aedes cinereus</i>	7.0	0.0%
<i>Aedes dorsalis</i>	4,609.0	4.7%
<i>Aedes hendersoni</i>	1.0	0.0%
<i>Aedes ineps</i>	5,399.0	5.6%
<i>Aedes melanimon</i>	2,291.0	2.4%
<i>Aedes nigromaculis</i>	4.0	0.0%
<i>Aedes spp.</i>	3.0	0.0%
<i>Aedes trivittatus</i>	28.0	0.0%
<i>Aedes vexans</i>	45,666.0	47.0%
<i>Anopheles freeborni</i>	486.0	0.5%
<i>Coquillettidia perturbans</i>	976.0	1.0%
<i>Culex pipiens</i>	16,382.0	16.9%
<i>Culex salinarius</i>	1.0	0.0%
<i>Culex tarsalis</i>	20,951.0	21.6%
<i>Culiseta inornata</i>	300.0	0.3%

Seasonality



Genus Proportions:

Genus	Number	Percent of Total
<i>Aedes/Ochlerotatus</i>	58,008	59.7%
<i>Anopheles</i>	486	0.5%
<i>Culex</i>	37,334	38.4%
<i>Culiseta</i>	300	0.3%
Other	976	1.0%



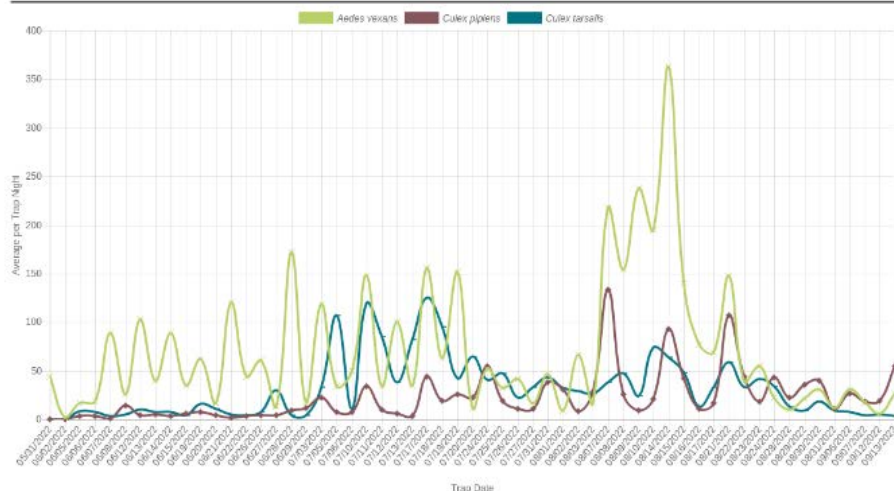
■ *Aedes-Oc*
■ *Anopheles*
■ *Culex*
■ *Culiseta*
■ Other



Adult Mosquito Surveillance Summary

Start Date: 05/01/2022 End Date: 09/20/2022

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, 2022 Colorado State University's Department of Microbiology, Immunology and Pathology, has tested a total of 1,951 mosquito pools from Larimer County. A total of 120 mosquito pool samples have tested positive for WNV with 8 of those being collected from Berthoud, 21 from Loveland and 91 from the Fort Collins. Testing of these mosquitoes for West Nile virus is paid for by the Town of Berthoud, the City of Fort Collins, and the City of Loveland. It's important to note that the large number of WNV positive sample pools reported from Fort Collins is highly correlated with the fact they test all mosquitoes with the potential for transmitting disease versus just a subset of the population.

ADULT MOSQUITO CONTROL

The goal of Vector Disease Control International is to provide our customers with the best options for safe, effective, modern mosquito management. The primary emphasis of the Fort Collins Mosquito Management Program is to control mosquitoes in the larval stage, using safe biological control products. VDCI uses EPA and CDC approved adulticides to reduce mosquito populations. During the 2022 season a total of 765.79 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, Ridgewood Hills HOA, and Willow Springs HOA, during the 2022 season. A total of 62.07 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 2022 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 31st, August 3rd, August 25th, August 28th, September 1st, September 6th, September 11th, and September 14th.

**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 17 phone calls from Fort Collins residents in 2022. VDCI received 5 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 8 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 4 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: 05/01/2022 - 09/20/2022

Trap Type: CDC Light Trap

Location: Magic Carpet

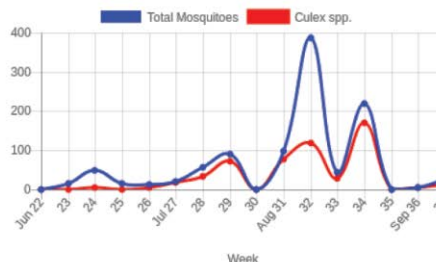
GPS: 40.49087011315602, -105.08256990462542

Total number of trap/nights set: 15.0
Total number of mosquitoes collected: 1,041.0
Average mosquitoes per trap/night: 69.4
Average Culex per trap/night: 36.3

Species collected and abundance:

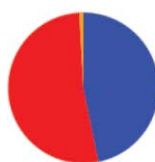
<i>Aedes dorsalis</i>	79.0	7.6%
<i>Aedes melanimon</i>	2.0	0.2%
<i>Aedes vexans</i>	406.0	39.0%
<i>Culex pipiens</i>	233.0	22.4%
<i>Culex tarsalis</i>	312.0	30.0%
<i>Culiseta inornata</i>	9.0	0.9%

Seasonality



Genus Proportions:

Genus	Number	Percent of Total
<i>Aedes/Ochlerotatus</i>	487.0	46.8%
<i>Anopheles</i>	0.0	0.0%
<i>Culex</i>	545.0	52.4%
<i>Culiseta</i>	9.0	0.9%
Other	0.0	0.0%



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

FC-004

Season: 05/01/2022 - 09/20/2022

Trap Type: CDC Light Trap

Location: Big Horn

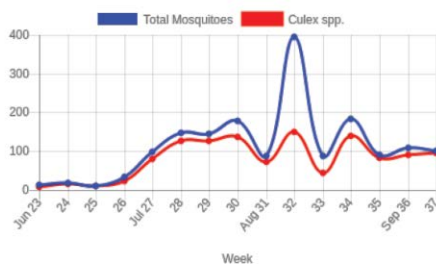
GPS: 40.53498867239214, -105.03751885145903

Total number of trap/nights set: 15.0
Total number of mosquitoes collected: 1,691.0
Average mosquitoes per trap/night: 112.7
Average Culex per trap/night: 79.5

Species collected and abundance:

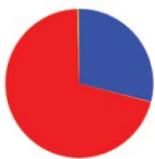
<i>Aedes dorsalis</i>	135.0	8.0%
<i>Aedes increpitus</i>	6.0	0.4%
<i>Aedes melanimon</i>	13.0	0.8%
<i>Aedes vexans</i>	335.0	19.8%
<i>Anopheles freeborni</i>	2.0	0.1%
<i>Coquilletidia perturbans</i>	2.0	0.1%
<i>Culex pipiens</i>	518.0	30.6%
<i>Culex tarsalis</i>	674.0	39.9%
<i>Culiseta inornata</i>	6.0	0.4%

Seasonality



Genus Proportions:

Genus	Number	Percent of Total
<i>Aedes/Ochlerotatus</i>	489.0	28.9%
<i>Anopheles</i>	2.0	0.1%
<i>Culex</i>	1,192.0	70.5%
<i>Culiseta</i>	6.0	0.4%
Other	2.0	0.1%



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

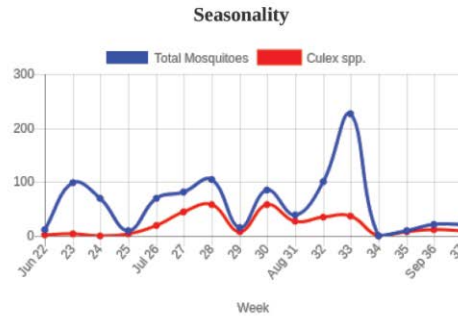
FC-006

Season: 05/01/2022 - 09/20/2022
 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: 961.0
 Average mosquitoes per trap/night: 64.1
 Average Culex per trap/night: 21.3

Species collected and abundance:

<i>Aedes dorsalis</i>	38.0	4.0%
<i>Aedes increpitus</i>	32.0	3.3%
<i>Aedes melanimon</i>	13.0	1.4%
<i>Aedes trivittatus</i>	1.0	0.1%
<i>Aedes vexans</i>	553.0	57.5%
<i>Culex pipiens</i>	54.0	5.6%
<i>Culex tarsalis</i>	265.0	27.6%
<i>Culiseta inornata</i>	5.0	0.5%



Genus Proportions:

Genus	Number	Percent of Total
<i>Aedes/Ochlerotatus</i>	637.0	66.3%
<i>Anopheles</i>	0.0	0.0%
<i>Culex</i>	319.0	33.2%
<i>Culiseta</i>	5.0	0.5%
Other	0.0	0.0%



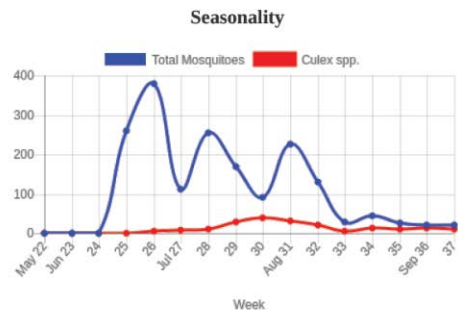
FC-011

Season: 05/01/2022 - 09/20/2022
 Trap Type: CDC Light Trap
 Location: Golden Current
 GPS: 40.56947993409379, -105.13603001832962

Total number of trap/nights set: 16.0
 Total number of mosquitoes collected: 1,766.0
 Average mosquitoes per trap/night: 110.4
 Average Culex per trap/night: 12.7

Species collected and abundance:

<i>Aedes cinereus</i>	1.0	0.1%
<i>Aedes dorsalis</i>	4.0	0.2%
<i>Aedes increpitus</i>	15.0	0.8%
<i>Aedes melanimon</i>	2.0	0.1%
<i>Aedes vexans</i>	1,512.0	85.6%
<i>Anopheles freeborni</i>	15.0	0.8%
<i>Culex pipiens</i>	132.0	7.5%
<i>Culex salinarius</i>	1.0	0.1%
<i>Culex tarsalis</i>	70.0	4.0%
<i>Culiseta inornata</i>	14.0	0.8%



Genus Proportions:

Genus	Number	Percent of Total
<i>Aedes/Ochlerotatus</i>	1,534.0	86.9%
<i>Anopheles</i>	15.0	0.8%
<i>Culex</i>	203.0	11.5%
<i>Culiseta</i>	14.0	0.8%
Other	0.0	0.0%



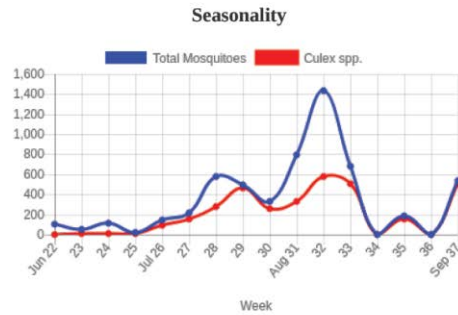
FC-014

Season: 05/01/2022 - 09/20/2022
 Trap Type: CDC Light Trap
 Location: FC Visitor Center
 GPS: 40.56509442567909, -105.00627581030129

Total number of trap/nights set: 14.0
 Total number of mosquitoes collected: 5,674.0
 Average mosquitoes per trap/night: 405.3
 Average Culex per trap/night: 239.1

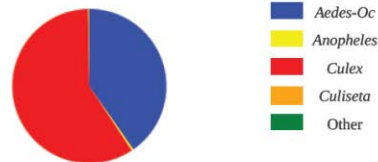
Species collected and abundance:

<i>Aedes dorsalis</i>	557.0	9.8%
<i>Aedes increpitus</i>	70.0	1.2%
<i>Aedes melanimon</i>	212.0	3.7%
<i>Aedes nigromaculis</i>	1.0	0.0%
<i>Aedes vexans</i>	1,447.0	25.5%
<i>Anopheles freeborni</i>	23.0	0.4%
<i>Coquilletidia perturbans</i>	2.0	0.0%
<i>Culex pipiens</i>	2,744.0	48.4%
<i>Culex tarsalis</i>	604.0	10.6%
<i>Culiseta inornata</i>	14.0	0.2%



Genus Proportions:

Genus	Number	Percent of Total
<i>Aedes/Ochlerotatus</i>	2,287.0	40.3%
<i>Anopheles</i>	23.0	0.4%
<i>Culex</i>	3,348.0	59.0%
<i>Culiseta</i>	14.0	0.2%
Other	2.0	0.0%



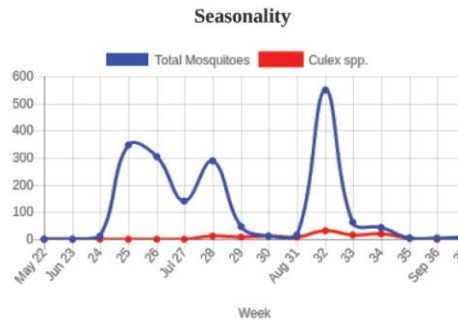
FC-015

Season: 05/01/2022 - 09/20/2022
 Trap Type: CDC Light Trap
 Location: Stuart and Dorset
 GPS: 40.5600827919436, -105.12403752654791

Total number of trap/nights set: 16.0
 Total number of mosquitoes collected: 1,848.0
 Average mosquitoes per trap/night: 115.5
 Average Culex per trap/night: 7.9

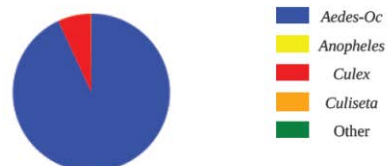
Species collected and abundance:

<i>Aedes dorsalis</i>	19.0	1.0%
<i>Aedes increpitus</i>	10.0	0.5%
<i>Aedes melanimon</i>	3.0	0.2%
<i>Aedes vexans</i>	1,688.0	91.3%
<i>Culex pipiens</i>	31.0	1.7%
<i>Culex tarsalis</i>	96.0	5.2%
<i>Culiseta inornata</i>	1.0	0.1%



Genus Proportions:

Genus	Number	Percent of Total
<i>Aedes/Ochlerotatus</i>	1,720.0	93.1%
<i>Anopheles</i>	0.0	0.0%
<i>Culex</i>	127.0	6.9%
<i>Culiseta</i>	1.0	0.1%
Other	0.0	0.0%



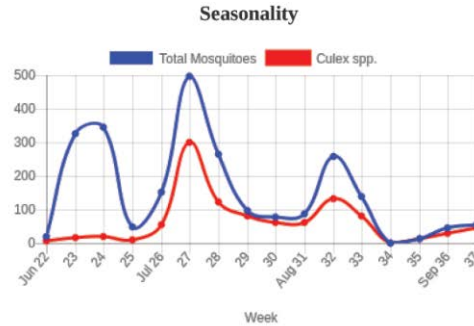
FC-019

Season: 05/01/2022 - 09/20/2022
 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: 2,417.0
 Average mosquitoes per trap/night: 161.1
 Average Culex per trap/night: 68.6

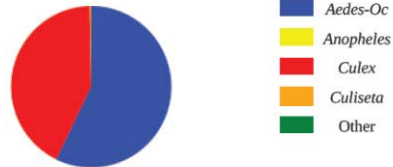
Species collected and abundance:

<i>Aedes dorsalis</i>	18.0	0.7%
<i>Aedes increpitus</i>	352.0	14.6%
<i>Aedes melanimon</i>	18.0	0.7%
<i>Aedes vexans</i>	993.0	41.1%
<i>Culex pipiens</i>	253.0	10.5%
<i>Culex tarsalis</i>	776.0	32.1%
<i>Culiseta inornata</i>	7.0	0.3%



Genus Proportions:

Genus	Number	Percent of Total
<i>Aedes/Ochlerotatus</i>	1,381.0	57.1%
<i>Anopheles</i>	0.0	0.0%
<i>Culex</i>	1,029.0	42.6%
<i>Culiseta</i>	7.0	0.3%
Other	0.0	0.0%



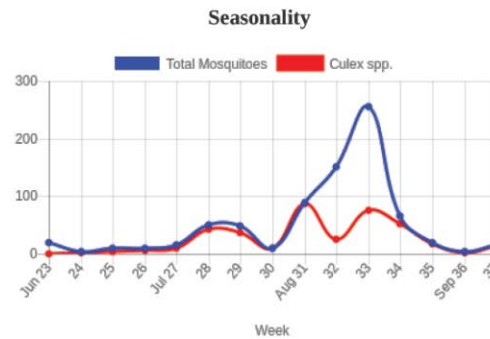
FC-023

Season: 05/01/2022 - 09/20/2022
 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: 766.0
 Average mosquitoes per trap/night: 51.1
 Average Culex per trap/night: 25.2

Species collected and abundance:

<i>Aedes dorsalis</i>	111.0	14.5%
<i>Aedes melanimon</i>	27.0	3.5%
<i>Aedes vexans</i>	245.0	32.0%
<i>Coquilletidia perturbans</i>	1.0	0.1%
<i>Culex pipiens</i>	113.0	14.8%
<i>Culex tarsalis</i>	265.0	34.6%
<i>Culiseta inornata</i>	4.0	0.5%



Genus Proportions:

Genus	Number	Percent of Total
<i>Aedes/Ochlerotatus</i>	383.0	50.0%
<i>Anopheles</i>	0.0	0.0%
<i>Culex</i>	378.0	49.3%
<i>Culiseta</i>	4.0	0.5%
Other	1.0	0.1%



FC-027

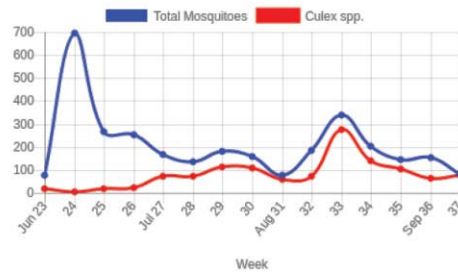
Season: 05/01/2022 - 09/20/2022
 Trap Type: CDC Light Trap
 Location: 3001 San Luis
 GPS: 40.546510068398455, -105.03359008580445

Total number of trap/nights set: 15.0
 Total number of mosquitoes collected: 3,109.0
 Average mosquitoes per trap/night: 207.3
 Average Culex per trap/night: 81.0

Species collected and abundance:

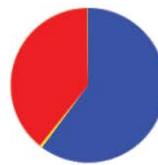
<i>Aedes dorsalis</i>	30.0	1.0%
<i>Aedes increpitus</i>	1,239.0	39.9%
<i>Aedes melanimon</i>	33.0	1.1%
<i>Aedes vexans</i>	568.0	18.3%
<i>Anopheles freeborni</i>	17.0	0.5%
<i>Coquillettidia perturbans</i>	2.0	0.1%
<i>Culex pipiens</i>	669.0	21.5%
<i>Culex tarsalis</i>	546.0	17.6%
<i>Culiseta inornata</i>	5.0	0.2%

Seasonality



Genus Proportions:

Genus	Number	Percent of Total
<i>Aedes/Ochlerotatus</i>	1,870.0	60.1%
<i>Anopheles</i>	17.0	0.5%
<i>Culex</i>	1,215.0	39.1%
<i>Culiseta</i>	5.0	0.2%
Other	2.0	0.1%



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

FC-029

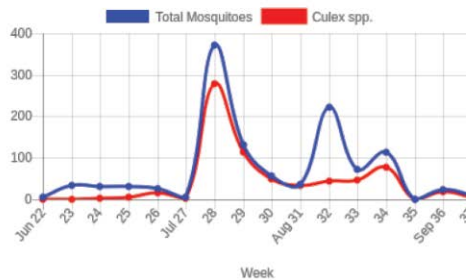
Season: 05/01/2022 - 09/20/2022
 Trap Type: CDC Light Trap
 Location: Ben's Park
 GPS: 40.51136844640155, -105.07185079157352

Total number of trap/nights set: 16.0
 Total number of mosquitoes collected: 1,166.0
 Average mosquitoes per trap/night: 72.9
 Average Culex per trap/night: 43.0

Species collected and abundance:

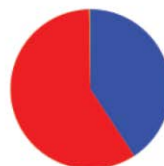
<i>Aedes dorsalis</i>	70.0	6.0%
<i>Aedes increpitus</i>	1.0	0.1%
<i>Aedes melanimon</i>	17.0	1.5%
<i>Aedes vexans</i>	387.0	33.2%
<i>Coquillettidia perturbans</i>	1.0	0.1%
<i>Culex pipiens</i>	100.0	8.6%
<i>Culex tarsalis</i>	588.0	50.4%
<i>Culiseta inornata</i>	2.0	0.2%

Seasonality



Genus Proportions:

Genus	Number	Percent of Total
<i>Aedes/Ochlerotatus</i>	475.0	40.7%
<i>Anopheles</i>	0.0	0.0%
<i>Culex</i>	688.0	59.0%
<i>Culiseta</i>	2.0	0.2%
Other	1.0	0.1%



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

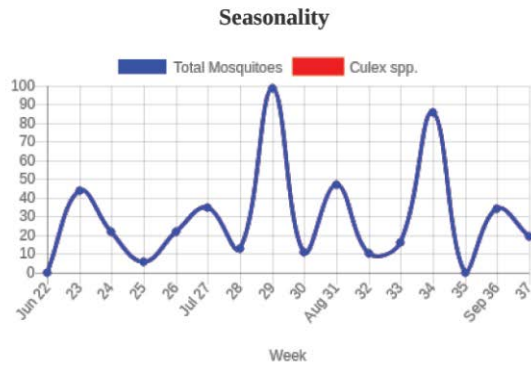
FC-029gr

Season: 05/01/2022 - 09/20/2022
 Trap Type: Gravid Trap
 Location: Ben's Park Gravid
 GPS: 40.51136309344342, -105.07115509361029

Total number of trap/nights set: 16.0
 Total number of mosquitoes collected: 464.0
 Average mosquitoes per trap/night: 29.0
 Average Culex per trap/night: 29.0

Species collected and abundance:

<i>Culex pipiens</i>	461.0	99.4%
<i>Culex tarsalis</i>	3.0	0.6%



Genus Proportions:

Genus	Number	Percent of Total
<i>Aedes/Ochlerotatus</i>	0.0	0.0%
<i>Anopheles</i>	0.0	0.0%
<i>Culex</i>	464.0	100.0%
<i>Culiseta</i>	0.0	0.0%
Other	0.0	0.0%



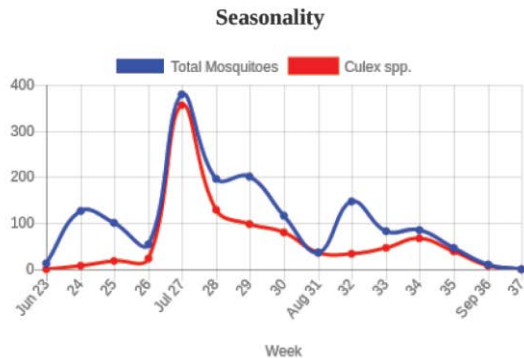
FC-031

Season: 05/01/2022 - 09/20/2022
 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: 1,594.0
 Average mosquitoes per trap/night: 106.3
 Average Culex per trap/night: 62.6

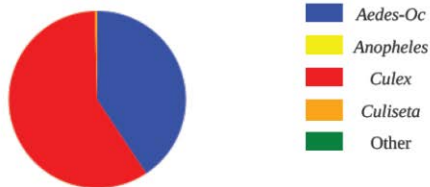
Species collected and abundance:

<i>Aedes dorsalis</i>	183.0	11.5%
<i>Aedes increpitus</i>	5.0	0.3%
<i>Aedes melanimon</i>	68.0	4.3%
<i>Aedes vexans</i>	392.0	24.6%
<i>Culex pipiens</i>	42.0	2.6%
<i>Culex tarsalis</i>	897.0	56.3%
<i>Culiseta inornata</i>	7.0	0.4%



Genus Proportions:

Genus	Number	Percent of Total
<i>Aedes/Ochlerotatus</i>	648.0	40.7%
<i>Anopheles</i>	0.0	0.0%
<i>Culex</i>	939.0	58.9%
<i>Culiseta</i>	7.0	0.4%
Other	0.0	0.0%



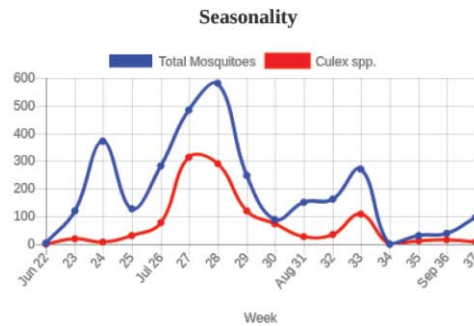
FC-034

Season: 05/01/2022 - 09/20/2022
 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: 3,055.0
 Average mosquitoes per trap/night: 203.7
 Average Culex per trap/night: 75.2

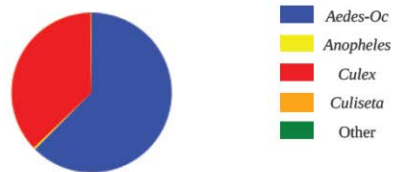
Species collected and abundance:

<i>Aedes dorsalis</i>	364.0	11.9%
<i>Aedes increpitus</i>	12.0	0.4%
<i>Aedes melanimon</i>	212.0	6.9%
<i>Aedes vexans</i>	1,320.0	43.2%
<i>Anopheles freeborni</i>	12.0	0.4%
<i>Culex pipiens</i>	11.0	0.4%
<i>Culex tarsalis</i>	1,117.0	36.6%
<i>Culiseta inornata</i>	7.0	0.2%



Genus Proportions:

Genus	Number	Percent of Total
<i>Aedes/Ochlerotatus</i>	1,908.0	62.5%
<i>Anopheles</i>	12.0	0.4%
<i>Culex</i>	1,128.0	36.9%
<i>Culiseta</i>	7.0	0.2%
Other	0.0	0.0%



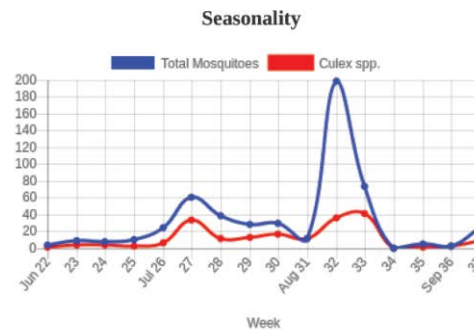
FC-036

Season: 05/01/2022 - 09/20/2022
 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: 531.0
 Average mosquitoes per trap/night: 35.4
 Average Culex per trap/night: 12.8

Species collected and abundance:

<i>Aedes dorsalis</i>	19.0	3.6%
<i>Aedes melanimon</i>	25.0	4.7%
<i>Aedes vexans</i>	288.0	54.2%
<i>Anopheles freeborni</i>	1.0	0.2%
<i>Culex pipiens</i>	31.0	5.8%
<i>Culex tarsalis</i>	161.0	30.3%
<i>Culiseta inornata</i>	6.0	1.1%



Genus Proportions:

Genus	Number	Percent of Total
<i>Aedes/Ochlerotatus</i>	332.0	62.5%
<i>Anopheles</i>	1.0	0.2%
<i>Culex</i>	192.0	36.2%
<i>Culiseta</i>	6.0	1.1%
Other	0.0	0.0%



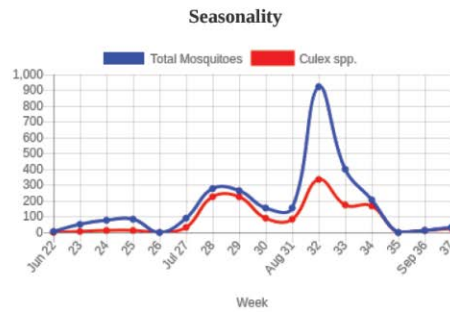
FC-037

Season: 05/01/2022 - 09/20/2022
 Trap Type: CDC Light Trap
 Location: Chelsea Ridge
 GPS: 40.51667989969775, -105.09808011353017

Total number of trap/nights set: 16.0
 Total number of mosquitoes collected: 2,720.0
 Average mosquitoes per trap/night: 170.0
 Average Culex per trap/night: 87.2

Species collected and abundance:

<i>Aedes dorsalis</i>	24.0	0.9%
<i>Aedes increpitus</i>	9.0	0.3%
<i>Aedes melanimon</i>	1.0	0.0%
<i>Aedes vexans</i>	1,286.0	47.3%
<i>Anopheles freeborni</i>	1.0	0.0%
<i>Coquillettidia perturbans</i>	2.0	0.1%
<i>Culex pipiens</i>	128.0	4.7%
<i>Culex tarsalis</i>	1,267.0	46.6%
<i>Culiseta inornata</i>	2.0	0.1%



Genus Proportions:

Genus	Number	Percent of Total
<i>Aedes/Ochlerotatus</i>	1,320.0	48.5%
<i>Anopheles</i>	1.0	0.0%
<i>Culex</i>	1,395.0	51.3%
<i>Culiseta</i>	2.0	0.1%
Other	2.0	0.1%



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

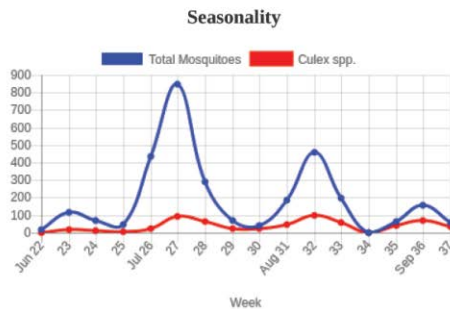
FC-038

Season: 05/01/2022 - 09/20/2022
 Trap Type: CDC Light Trap
 Location: Lochside Lane
 GPS: 40.59907046206435, -105.00655643641949

Total number of trap/nights set: 15.0
 Total number of mosquitoes collected: 3,048.0
 Average mosquitoes per trap/night: 203.2
 Average Culex per trap/night: 40.0

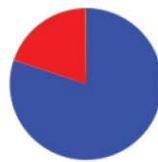
Species collected and abundance:

<i>Aedes dorsalis</i>	81.0	2.7%
<i>Aedes increpitus</i>	29.0	1.0%
<i>Aedes melanimon</i>	203.0	6.7%
<i>Aedes trivittatus</i>	5.0	0.2%
<i>Aedes vexans</i>	2,123.0	69.7%
<i>Anopheles freeborni</i>	2.0	0.1%
<i>Coquillettidia perturbans</i>	2.0	0.1%
<i>Culex pipiens</i>	139.0	4.6%
<i>Culex tarsalis</i>	461.0	15.1%
<i>Culiseta inornata</i>	3.0	0.1%



Genus Proportions:

Genus	Number	Percent of Total
<i>Aedes/Ochlerotatus</i>	2,441.0	80.1%
<i>Anopheles</i>	2.0	0.1%
<i>Culex</i>	600.0	19.7%
<i>Culiseta</i>	3.0	0.1%
Other	2.0	0.1%



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

FC-039

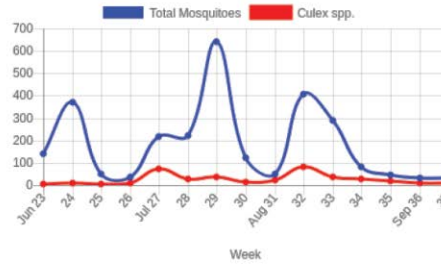
Season: 05/01/2022 - 09/20/2022
 Trap Type: CDC Light Trap
 Location: Fossil Creek South
 GPS: 40.4808101171896, -105.03934007138014

Total number of trap/nights set: 15.0
 Total number of mosquitoes collected: 2,725.0
 Average mosquitoes per trap/night: 181.7
 Average Culex per trap/night: 24.4

Species collected and abundance:

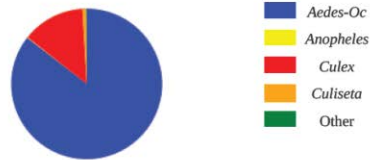
<i>Aedes dorsalis</i>	817.0	30.0%
<i>Aedes increpitus</i>	3.0	0.1%
<i>Aedes melanimon</i>	250.0	9.2%
<i>Aedes trivittatus</i>	1.0	0.0%
<i>Aedes vexans</i>	1,259.0	46.2%
<i>Anopheles freeborni</i>	4.0	0.1%
<i>Coquillettidia perturbans</i>	2.0	0.1%
<i>Culex pipiens</i>	30.0	1.1%
<i>Culex tarsalis</i>	336.0	12.3%
<i>Culiseta inornata</i>	23.0	0.8%

Seasonality



Genus Proportions:

Genus	Number	Percent of Total
<i>Aedes/Ochlerotatus</i>	2,330.0	85.5%
<i>Anopheles</i>	4.0	0.1%
<i>Culex</i>	366.0	13.4%
<i>Culiseta</i>	23.0	0.8%
Other	2.0	0.1%



FC-040

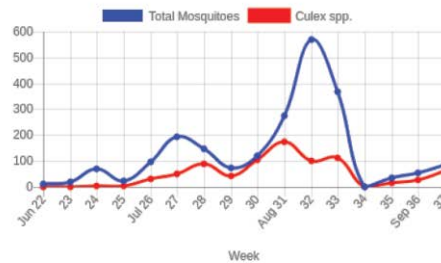
Season: 05/01/2022 - 09/20/2022
 Trap Type: CDC Light Trap
 Location: Redwood
 GPS: 40.60307751389784, -105.06707444787025

Total number of trap/nights set: 15.0
 Total number of mosquitoes collected: 2,136.0
 Average mosquitoes per trap/night: 142.4
 Average Culex per trap/night: 54.5

Species collected and abundance:

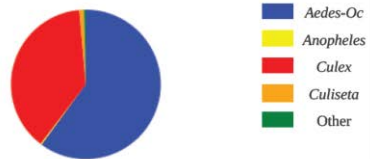
<i>Aedes dorsalis</i>	289.0	13.5%
<i>Aedes melanimon</i>	63.0	2.9%
<i>Aedes nigromaculis</i>	3.0	0.1%
<i>Aedes vexans</i>	928.0	43.4%
<i>Anopheles freeborni</i>	6.0	0.3%
<i>Coquillettidia perturbans</i>	8.0	0.4%
<i>Culex pipiens</i>	390.0	18.3%
<i>Culex tarsalis</i>	427.0	20.0%
<i>Culiseta inornata</i>	22.0	1.0%

Seasonality



Genus Proportions:

Genus	Number	Percent of Total
<i>Aedes/Ochlerotatus</i>	1,283.0	60.1%
<i>Anopheles</i>	6.0	0.3%
<i>Culex</i>	817.0	38.2%
<i>Culiseta</i>	22.0	1.0%
Other	8.0	0.4%



FC-040gr

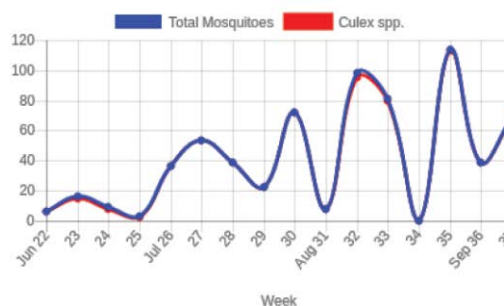
Season: 05/01/2022 - 09/20/2022
 Trap Type: Gravid Trap
 Location: Redwood Gravid
 GPS: 40.60309558721682, -105.06650783121586

Total number of trap/nights set: 15.0
 Total number of mosquitoes collected: 665.0
 Average mosquitoes per trap/night: 44.3
 Average Culex per trap/night: 43.7

Species collected and abundance:

<i>Aedes vexans</i>	9.0	1.4%
<i>Culex pipiens</i>	651.0	97.9%
<i>Culex tarsalis</i>	5.0	0.8%

Seasonality



Genus Proportions:

Genus	Number	Percent of Total
<i>Aedes/Ochlerotatus</i>	9.0	1.4%
<i>Anopheles</i>	0.0	0.0%
<i>Culex</i>	656.0	98.6%
<i>Culiseta</i>	0.0	0.0%
Other	0.0	0.0%



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

FC-041

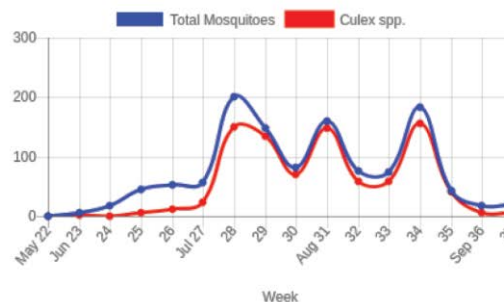
Season: 05/01/2022 - 09/20/2022
 Trap Type: CDC Light Trap
 Location: Fishback
 GPS: 40.58794002990494, -105.10486006736755

Total number of trap/nights set: 16.0
 Total number of mosquitoes collected: 1,182.0
 Average mosquitoes per trap/night: 73.9
 Average Culex per trap/night: 54.6

Species collected and abundance:

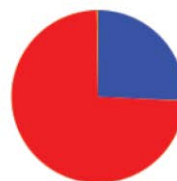
<i>Aedes dorsalis</i>	5.0	0.4%
<i>Aedes increpitus</i>	6.0	0.5%
<i>Aedes melanimon</i>	8.0	0.7%
<i>Aedes vexans</i>	285.0	24.1%
<i>Anopheles freeborni</i>	1.0	0.1%
<i>Culex pipiens</i>	167.0	14.1%
<i>Culex tarsalis</i>	707.0	59.8%
<i>Culiseta inornata</i>	3.0	0.3%

Seasonality



Genus Proportions:

Genus	Number	Percent of Total
<i>Aedes/Ochlerotatus</i>	304.0	25.7%
<i>Anopheles</i>	1.0	0.1%
<i>Culex</i>	874.0	73.9%
<i>Culiseta</i>	3.0	0.3%
Other	0.0	0.0%



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

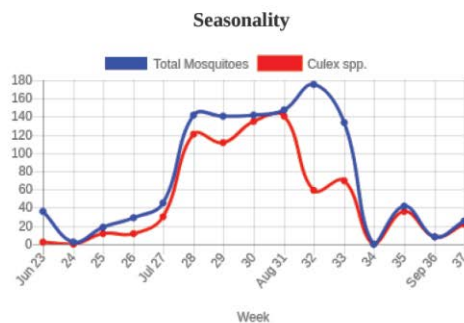
FC-046

Season: 05/01/2022 - 09/20/2022
 Trap Type: CDC Light Trap
 Location: Westshore Ct
 GPS: 40.52954284354251, -105.0651342049241

Total number of trap/nights set: 14.0
 Total number of mosquitoes collected: 1,087.0
 Average mosquitoes per trap/night: 77.6
 Average Culex per trap/night: 54.1

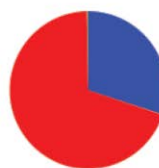
Species collected and abundance:

<i>Aedes dorsalis</i>	30.0	2.8%
<i>Aedes melanimon</i>	11.0	1.0%
<i>Aedes vexans</i>	285.0	26.2%
<i>Anopheles freeborni</i>	1.0	0.1%
<i>Coquillettidia perturbans</i>	1.0	0.1%
<i>Culex pipiens</i>	115.0	10.6%
<i>Culex tarsalis</i>	642.0	59.1%
<i>Culiseta inornata</i>	2.0	0.2%



Genus Proportions:

Genus	Number	Percent of Total
<i>Aedes/Ochlerotatus</i>	326.0	30.0%
<i>Anopheles</i>	1.0	0.1%
<i>Culex</i>	757.0	69.6%
<i>Culiseta</i>	2.0	0.2%
Other	1.0	0.1%



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

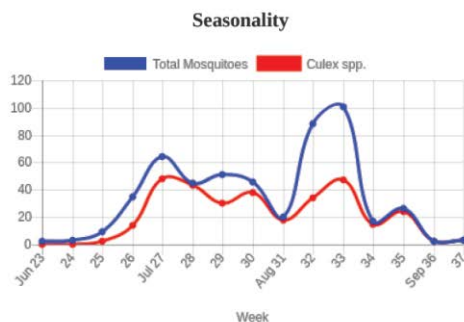
FC-047

Season: 05/01/2022 - 09/20/2022
 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: 512.0
 Average mosquitoes per trap/night: 34.1
 Average Culex per trap/night: 21.2

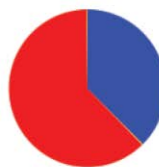
Species collected and abundance:

<i>Aedes dorsalis</i>	21.0	4.1%
<i>Aedes increpitus</i>	2.0	0.4%
<i>Aedes melanimon</i>	12.0	2.3%
<i>Aedes vexans</i>	157.0	30.7%
<i>Anopheles freeborni</i>	1.0	0.2%
<i>Culex pipiens</i>	30.0	5.9%
<i>Culex tarsalis</i>	288.0	56.3%
<i>Culiseta inornata</i>	1.0	0.2%



Genus Proportions:

Genus	Number	Percent of Total
<i>Aedes/Ochlerotatus</i>	192.0	37.5%
<i>Anopheles</i>	1.0	0.2%
<i>Culex</i>	318.0	62.1%
<i>Culiseta</i>	1.0	0.2%
Other	0.0	0.0%



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

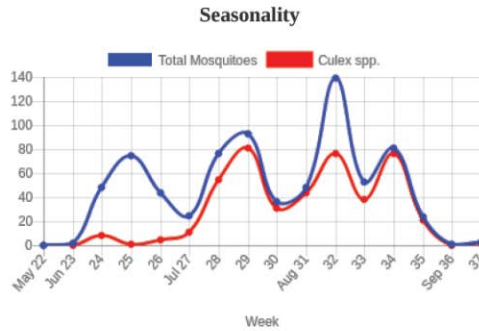
FC-049

Season: 05/01/2022 - 09/20/2022
 Trap Type: CDC Light Trap
 Location: Casa Grande and Downing
 GPS: 40.573239949533054, -105.13949006795883

Total number of trap/nights set: 16.0
 Total number of mosquitoes collected: 748.0
 Average mosquitoes per trap/night: 46.8
 Average Culex per trap/night: 28.1

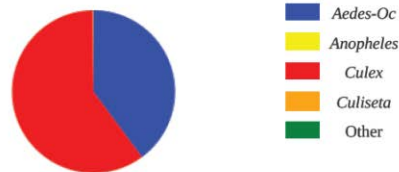
Species collected and abundance:

<i>Aedes dorsalis</i>	6.0	0.8%
<i>Aedes increpitus</i>	7.0	0.9%
<i>Aedes melanimon</i>	4.0	0.5%
<i>Aedes vexans</i>	281.0	37.6%
<i>Culex pipiens</i>	69.0	9.2%
<i>Culex tarsalis</i>	380.0	50.8%
<i>Culiseta inornata</i>	1.0	0.1%



Genus Proportions:

Genus	Number	Percent of Total
<i>Aedes/Ochlerotatus</i>	298.0	39.8%
<i>Anopheles</i>	0.0	0.0%
<i>Culex</i>	449.0	60.0%
<i>Culiseta</i>	1.0	0.1%
Other	0.0	0.0%



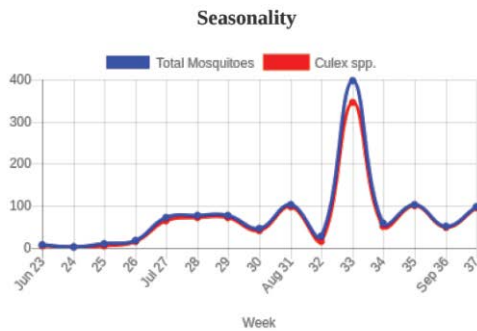
FC-050

Season: 05/01/2022 - 09/20/2022
 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: 1,145.0
 Average mosquitoes per trap/night: 76.3
 Average Culex per trap/night: 68.9

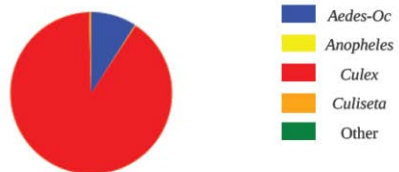
Species collected and abundance:

<i>Aedes dorsalis</i>	8.0	0.7%
<i>Aedes increpitus</i>	1.0	0.1%
<i>Aedes melanimon</i>	3.0	0.3%
<i>Aedes vexans</i>	92.0	8.0%
<i>Anopheles freeborni</i>	2.0	0.2%
<i>Culex pipiens</i>	541.0	47.2%
<i>Culex tarsalis</i>	493.0	43.1%
<i>Culiseta inornata</i>	5.0	0.4%



Genus Proportions:

Genus	Number	Percent of Total
<i>Aedes/Ochlerotatus</i>	104.0	9.1%
<i>Anopheles</i>	2.0	0.2%
<i>Culex</i>	1,034.0	90.3%
<i>Culiseta</i>	5.0	0.4%
Other	0.0	0.0%



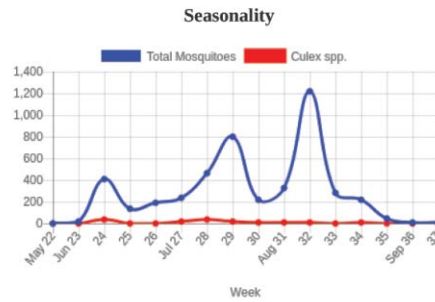
FC-052

Season: 05/01/2022 - 09/20/2022
 Trap Type: CDC Light Trap
 Location: 603 Gilgalad Way
 GPS: 40.5616299281039, -105.08703008294106

Total number of trap/nights set: 16.0
 Total number of mosquitoes collected: 4,602.0
 Average mosquitoes per trap/night: 287.6
 Average Culex per trap/night: 10.6

Species collected and abundance:

<i>Aedes cinereus</i>	2.0	0.0%
<i>Aedes dorsalis</i>	12.0	0.3%
<i>Aedes increpitus</i>	108.0	2.3%
<i>Aedes melanimon</i>	16.0	0.3%
<i>Aedes spp.</i>	3.0	0.1%
<i>Aedes trivittatus</i>	1.0	0.0%
<i>Aedes vexans</i>	4,271.0	92.8%
<i>Anopheles freeborni</i>	1.0	0.0%
<i>Culex pipiens</i>	28.0	0.6%
<i>Culex tarsalis</i>	141.0	3.1%
<i>Culiseta inornata</i>	19.0	0.4%



Genus Proportions:

Genus	Number	Percent of Total
<i>Aedes/Ochlerotatus</i>	4,413.0	95.9%
<i>Anopheles</i>	1.0	0.0%
<i>Culex</i>	169.0	3.7%
<i>Culiseta</i>	19.0	0.4%
Other	0.0	0.0%



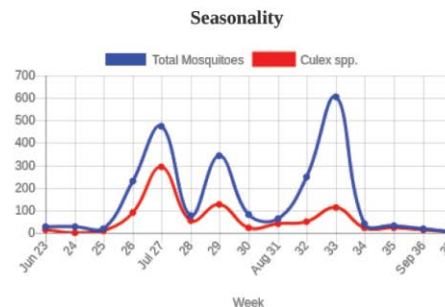
FC-053

Season: 05/01/2022 - 09/20/2022
 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: 2,283.0
 Average mosquitoes per trap/night: 152.2
 Average Culex per trap/night: 57.9

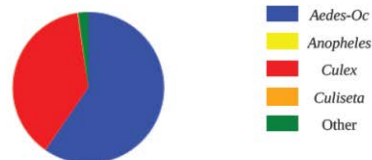
Species collected and abundance:

<i>Aedes dorsalis</i>	100.0	4.4%
<i>Aedes increpitus</i>	5.0	0.2%
<i>Aedes melanimon</i>	86.0	3.8%
<i>Aedes vexans</i>	1,169.0	51.2%
<i>Anopheles freeborni</i>	1.0	0.0%
<i>Coquillettidia perturbans</i>	49.0	2.1%
<i>Culex pipiens</i>	44.0	1.9%
<i>Culex tarsalis</i>	825.0	36.1%
<i>Culiseta inornata</i>	4.0	0.2%



Genus Proportions:

Genus	Number	Percent of Total
<i>Aedes/Ochlerotatus</i>	1,360.0	59.6%
<i>Anopheles</i>	1.0	0.0%
<i>Culex</i>	869.0	38.1%
<i>Culiseta</i>	4.0	0.2%
Other	49.0	2.1%



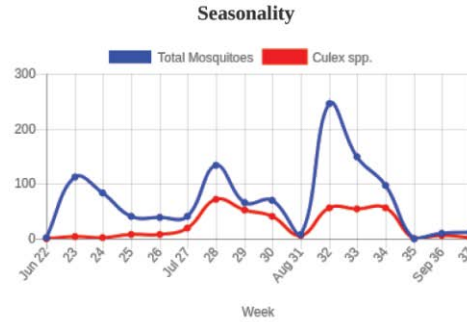
FC-054

Season: 05/01/2022 - 09/20/2022
 Trap Type: CDC Light Trap
 Location: 737 Parliament
 GPS: 40.49997995372379, -105.06319999694824

Total number of trap/nights set: 17.0
 Total number of mosquitoes collected: 1,103.0
 Average mosquitoes per trap/night: 64.9
 Average Culex per trap/night: 22.5

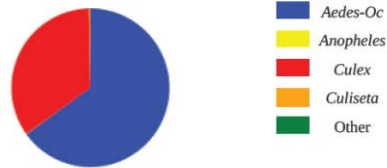
Species collected and abundance:

<i>Aedes dorsalis</i>	106.0	9.6%
<i>Aedes inreptus</i>	1.0	0.1%
<i>Aedes melanimon</i>	9.0	0.8%
<i>Aedes vexans</i>	601.0	54.5%
<i>Anopheles freeborni</i>	1.0	0.1%
<i>Culex pipiens</i>	41.0	3.7%
<i>Culex tarsalis</i>	341.0	30.9%
<i>Culiseta inornata</i>	3.0	0.3%



Genus Proportions:

Genus	Number	Percent of Total
<i>Aedes/Ochlerotatus</i>	717.0	65.0%
<i>Anopheles</i>	1.0	0.1%
<i>Culex</i>	382.0	34.6%
<i>Culiseta</i>	3.0	0.3%
Other	0.0	0.0%



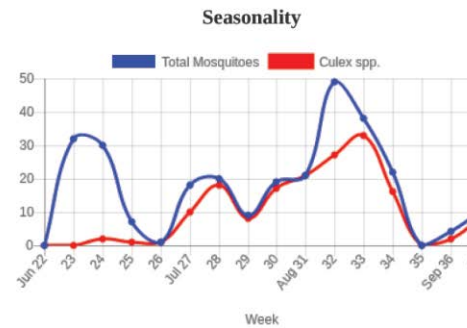
FC-057

Season: 05/01/2022 - 09/20/2022
 Trap Type: CDC Light Trap
 Location: Registry Ridge
 GPS: 40.48438997678501, -105.10523993521929

Total number of trap/nights set: 16.0
 Total number of mosquitoes collected: 280.0
 Average mosquitoes per trap/night: 17.5
 Average Culex per trap/night: 10.3

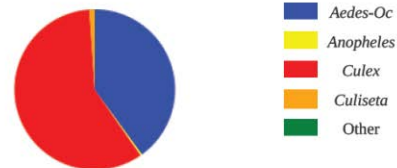
Species collected and abundance:

<i>Aedes dorsalis</i>	62.0	22.1%
<i>Aedes melanimon</i>	1.0	0.4%
<i>Aedes vexans</i>	49.0	17.5%
<i>Anopheles freeborni</i>	1.0	0.4%
<i>Culex pipiens</i>	22.0	7.9%
<i>Culex tarsalis</i>	142.0	50.7%
<i>Culiseta inornata</i>	3.0	1.1%



Genus Proportions:

Genus	Number	Percent of Total
<i>Aedes/Ochlerotatus</i>	112.0	40.0%
<i>Anopheles</i>	1.0	0.4%
<i>Culex</i>	164.0	58.6%
<i>Culiseta</i>	3.0	1.1%
Other	0.0	0.0%



FC-058

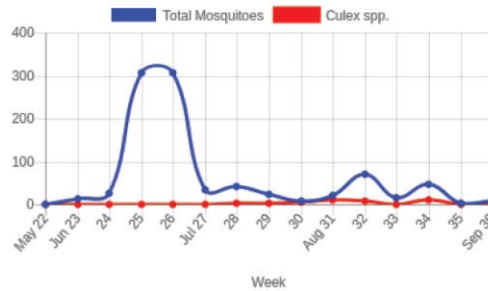
Season: 05/01/2022 - 09/20/2022
 Trap Type: CDC Light Trap
 Location: Spring Creek Trail-- Michener Dr
 GPS: 40.54883989155028, -105.12533001601697

Total number of trap/nights set: 15.0
 Total number of mosquitoes collected: 922.0
 Average mosquitoes per trap/night: 61.5
 Average Culex per trap/night: 3.0

Species collected and abundance:

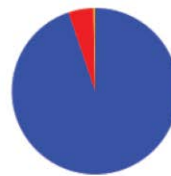
<i>Aedes dorsalis</i>	3.0	0.3%
<i>Aedes increpitus</i>	160.0	17.4%
<i>Aedes melanimon</i>	2.0	0.2%
<i>Aedes vexans</i>	709.0	76.9%
<i>Culex pipiens</i>	8.0	0.9%
<i>Culex tarsalis</i>	37.0	4.0%
<i>Culiseta inornata</i>	3.0	0.3%

Seasonality



Genus Proportions:

Genus	Number	Percent of Total
<i>Aedes/Ochlerotatus</i>	874.0	94.8%
<i>Anopheles</i>	0.0	0.0%
<i>Culex</i>	45.0	4.9%
<i>Culiseta</i>	3.0	0.3%
Other	0.0	0.0%



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

FC-059

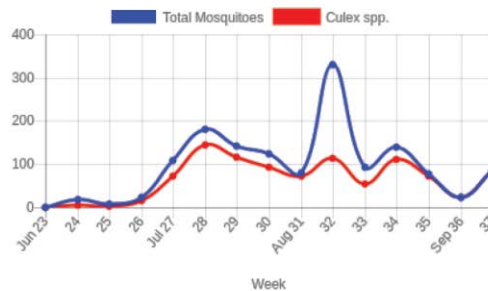
Season: 05/01/2022 - 09/20/2022
 Trap Type: CDC Light Trap
 Location: Springwood and Lochwood
 GPS: 40.5426000124595, -105.0460398942232

Total number of trap/nights set: 15.0
 Total number of mosquitoes collected: 1,430.0
 Average mosquitoes per trap/night: 95.3
 Average Culex per trap/night: 65.6

Species collected and abundance:

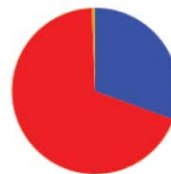
<i>Aedes dorsalis</i>	29.0	2.0%
<i>Aedes melanimon</i>	5.0	0.3%
<i>Aedes vexans</i>	403.0	28.2%
<i>Coquillettidia perturbans</i>	1.0	0.1%
<i>Culex pipiens</i>	462.0	32.3%
<i>Culex tarsalis</i>	522.0	36.5%
<i>Culiseta inornata</i>	8.0	0.6%

Seasonality



Genus Proportions:

Genus	Number	Percent of Total
<i>Aedes/Ochlerotatus</i>	437.0	30.6%
<i>Anopheles</i>	0.0	0.0%
<i>Culex</i>	984.0	68.8%
<i>Culiseta</i>	8.0	0.6%
Other	1.0	0.1%



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

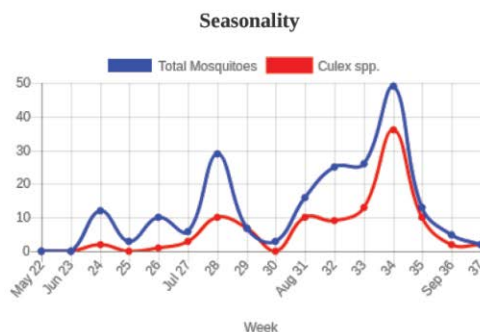
FC-060

Season: 05/01/2022 - 09/20/2022
 Trap Type: CDC Light Trap
 Location: 808 Ponderosa
 GPS: 40.548700028018544, -105.12018989771605

Total number of trap/nights set: 16.0
 Total number of mosquitoes collected: 206.0
 Average mosquitoes per trap/night: 12.9
 Average Culex per trap/night: 6.6

Species collected and abundance:

<i>Aedes dorsalis</i>	4.0	1.9%
<i>Aedes vexans</i>	97.0	47.1%
<i>Culex pipiens</i>	36.0	17.5%
<i>Culex tarsalis</i>	69.0	33.5%



Genus Proportions:

Genus	Number	Percent of Total
<i>Aedes/Ochlerotatus</i>	101.0	49.0%
<i>Anopheles</i>	0.0	0.0%
<i>Culex</i>	105.0	51.0%
<i>Culiseta</i>	0.0	0.0%
Other	0.0	0.0%



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

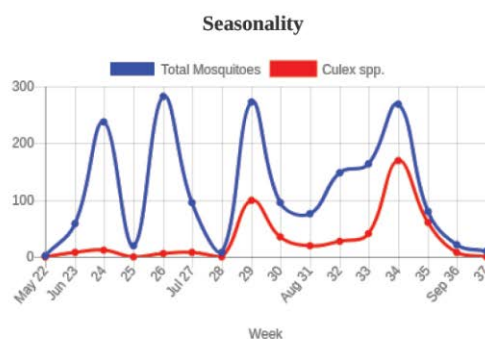
FC-061

Season: 05/01/2022 - 09/20/2022
 Trap Type: CDC Light Trap
 Location: Holley Plant Research Center
 GPS: 40.56879993041706, -105.09164985269308

Total number of trap/nights set: 16.0
 Total number of mosquitoes collected: 1,843.0
 Average mosquitoes per trap/night: 115.2
 Average Culex per trap/night: 31.1

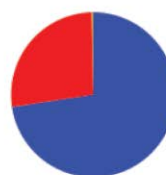
Species collected and abundance:

<i>Aedes cinereus</i>	1.0	0.1%
<i>Aedes dorsalis</i>	37.0	2.0%
<i>Aedes increpitus</i>	18.0	1.0%
<i>Aedes melanimon</i>	1.0	0.1%
<i>Aedes vexans</i>	1,281.0	69.5%
<i>Anopheles freeborni</i>	1.0	0.1%
<i>Coquillettidia perturbans</i>	1.0	0.1%
<i>Culex pipiens</i>	106.0	5.8%
<i>Culex tarsalis</i>	392.0	21.3%
<i>Culiseta inornata</i>	5.0	0.3%



Genus Proportions:

Genus	Number	Percent of Total
<i>Aedes/Ochlerotatus</i>	1,338.0	72.6%
<i>Anopheles</i>	1.0	0.1%
<i>Culex</i>	498.0	27.0%
<i>Culiseta</i>	5.0	0.3%
Other	1.0	0.1%



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

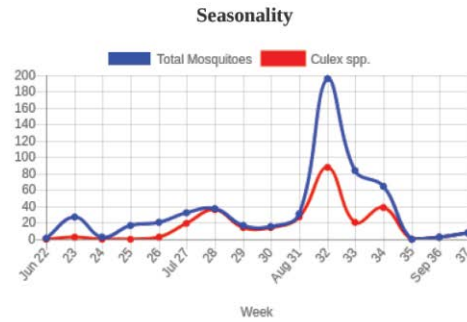
FC-062

Season: 05/01/2022 - 09/20/2022
 Trap Type: CDC Light Trap
 Location: Water's Edge at Blue Mesa
 GPS: 40.542779889722866, -105.08740995079279

Total number of trap/nights set: 16.0
 Total number of mosquitoes collected: 555.0
 Average mosquitoes per trap/night: 34.7
 Average Culex per trap/night: 16.9

Species collected and abundance:

<i>Aedes dorsalis</i>	33.0	5.9%
<i>Aedes melanimon</i>	29.0	5.2%
<i>Aedes vexans</i>	220.0	39.6%
<i>Culex pipiens</i>	63.0	11.4%
<i>Culex tarsalis</i>	208.0	37.5%
<i>Culiseta inornata</i>	2.0	0.4%



Genus Proportions:

Genus	Number	Percent of Total
<i>Aedes/Ochlerotatus</i>	282.0	50.8%
<i>Anopheles</i>	0.0	0.0%
<i>Culex</i>	271.0	48.8%
<i>Culiseta</i>	2.0	0.4%
Other	0.0	0.0%



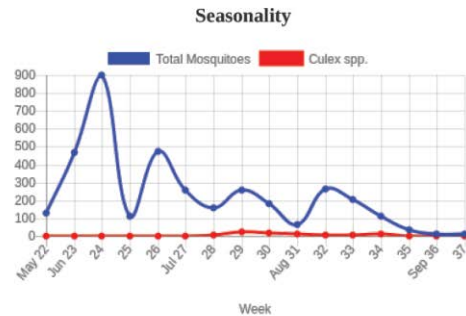
FC-063

Season: 05/01/2022 - 09/20/2022
 Trap Type: CDC Light Trap
 Location: Red Fox Meadows
 GPS: 40.565679974786285, -105.10485000908375

Total number of trap/nights set: 16.0
 Total number of mosquitoes collected: 3,645.0
 Average mosquitoes per trap/night: 227.8
 Average Culex per trap/night: 6.1

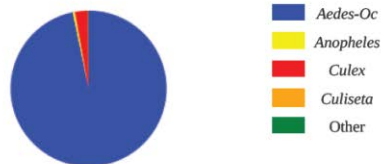
Species collected and abundance:

<i>Aedes dorsalis</i>	1.0	0.0%
<i>Aedes hendersoni</i>	1.0	0.0%
<i>Aedes increpitus</i>	1,133.0	31.1%
<i>Aedes melanimon</i>	2.0	0.1%
<i>Aedes trivittatus</i>	2.0	0.1%
<i>Aedes vexans</i>	2,387.0	65.5%
<i>Anopheles freeborni</i>	17.0	0.5%
<i>Coquillettidia perturbans</i>	3.0	0.1%
<i>Culex pipiens</i>	16.0	0.4%
<i>Culex tarsalis</i>	82.0	2.2%
<i>Culiseta inornata</i>	1.0	0.0%



Genus Proportions:

Genus	Number	Percent of Total
<i>Aedes/Ochlerotatus</i>	3,526.0	96.7%
<i>Anopheles</i>	17.0	0.5%
<i>Culex</i>	98.0	2.7%
<i>Culiseta</i>	1.0	0.0%
Other	3.0	0.1%



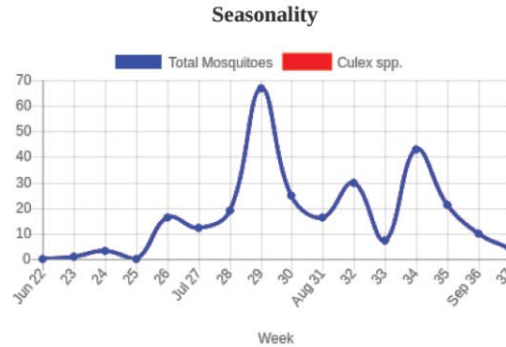
FC-063gr

Season: 05/01/2022 - 09/20/2022
 Trap Type: Gravid Trap
 Location: Red Fox Meadows Gravid
 GPS: 40.565679974786285, -105.10504983365536

Total number of trap/nights set: 16.0
 Total number of mosquitoes collected: 274.0
 Average mosquitoes per trap/night: 17.1
 Average Culex per trap/night: 17.1

Species collected and abundance:

<i>Culex pipiens</i>	273.0	99.6%
<i>Culex tarsalis</i>	1.0	0.4%



Genus Proportions:

Genus	Number	Percent of Total
<i>Aedes/Ochlerotatus</i>	0.0	0.0%
<i>Anopheles</i>	0.0	0.0%
<i>Culex</i>	274.0	100.0%
<i>Culiseta</i>	0.0	0.0%
Other	0.0	0.0%



Legend:
 Aedes-Oc
 Anopheles
 Culex
 Culiseta
 Other

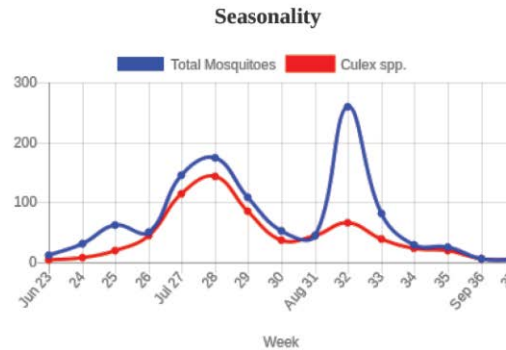
FC-064

Season: 05/01/2022 - 09/20/2022
 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: 1,079.0
 Average mosquitoes per trap/night: 71.9
 Average Culex per trap/night: 43.5

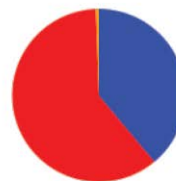
Species collected and abundance:

<i>Aedes dorsalis</i>	49.0	4.5%
<i>Aedes melanimon</i>	23.0	2.1%
<i>Aedes vexans</i>	348.0	32.3%
<i>Culex pipiens</i>	46.0	4.3%
<i>Culex tarsalis</i>	607.0	56.3%
<i>Culiseta inornata</i>	6.0	0.6%



Genus Proportions:

Genus	Number	Percent of Total
<i>Aedes/Ochlerotatus</i>	420.0	38.9%
<i>Anopheles</i>	0.0	0.0%
<i>Culex</i>	653.0	60.5%
<i>Culiseta</i>	6.0	0.6%
Other	0.0	0.0%



Legend:
 Aedes-Oc
 Anopheles
 Culex
 Culiseta
 Other

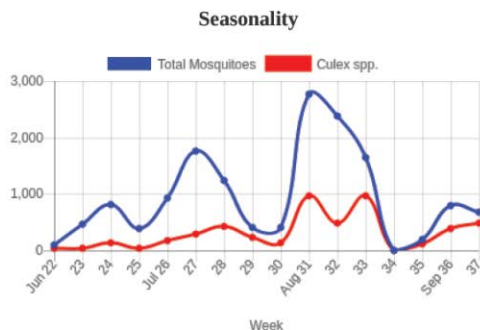
FC-066

Season: 05/01/2022 - 09/20/2022
 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: 14,940.0
 Average mosquitoes per trap/night: 996.0
 Average Culex per trap/night: 323.6

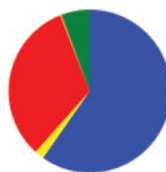
Species collected and abundance:

<i>Aedes dorsalis</i>	322.0	2.2%
<i>Aedes increpitus</i>	900.0	6.0%
<i>Aedes melanimon</i>	640.0	4.3%
<i>Aedes trivittatus</i>	16.0	0.1%
<i>Aedes vexans</i>	7,046.0	47.2%
<i>Anopheles freeborni</i>	278.0	1.9%
<i>Coquillettidia perturbans</i>	841.0	5.6%
<i>Culex pipiens</i>	3,864.0	25.9%
<i>Culex tarsalis</i>	990.0	6.6%
<i>Culiseta inornata</i>	43.0	0.3%



Genus Proportions:

Genus	Number	Percent of Total
<i>Aedes/Ochlerotatus</i>	8,924.0	59.7%
<i>Anopheles</i>	278.0	1.9%
<i>Culex</i>	4,854.0	32.5%
<i>Culiseta</i>	43.0	0.3%
Other	841.0	5.6%



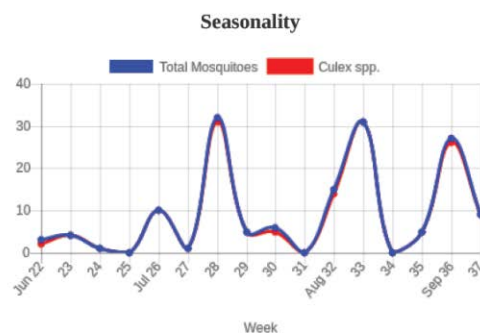
FC-066gr

Season: 05/01/2022 - 09/20/2022
 Trap Type: Gravid Trap
 Location: Prospect Ponds Gravid
 GPS: 40.55830305717813, -105.02268858253954

Total number of trap/nights set: 14.0
 Total number of mosquitoes collected: 149.0
 Average mosquitoes per trap/night: 10.6
 Average Culex per trap/night: 10.3

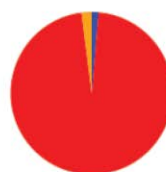
Species collected and abundance:

<i>Aedes increpitus</i>	1.0	0.7%
<i>Aedes vexans</i>	1.0	0.7%
<i>Culex pipiens</i>	133.0	89.3%
<i>Culex tarsalis</i>	11.0	7.4%
<i>Culiseta inornata</i>	3.0	2.0%



Genus Proportions:

Genus	Number	Percent of Total
<i>Aedes/Ochlerotatus</i>	2.0	1.3%
<i>Anopheles</i>	0.0	0.0%
<i>Culex</i>	144.0	96.6%
<i>Culiseta</i>	3.0	2.0%
Other	0.0	0.0%



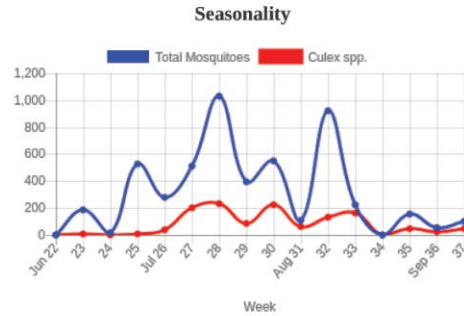
FC-067

Season: 05/01/2022 - 09/20/2022
 Trap Type: CDC Light Trap
 Location: Poudre River Trail
 GPS: 40.57749479750878, -105.05568780004978

Total number of trap/nights set: 16.0
 Total number of mosquitoes collected: 5,057.0
 Average mosquitoes per trap/night: 316.1
 Average Culex per trap/night: 78.9

Species collected and abundance:

<i>Aedes dorsalis</i>	46.0	0.9%
<i>Aedes increpitus</i>	1,077.0	21.3%
<i>Aedes melanimon</i>	31.0	0.6%
<i>Aedes trivittatus</i>	1.0	0.0%
<i>Aedes vexans</i>	2,621.0	51.8%
<i>Anopheles freeborni</i>	1.0	0.0%
<i>Coquillettidia perturbans</i>	5.0	0.1%
<i>Culex pipiens</i>	226.0	4.5%
<i>Culex tarsalis</i>	1,036.0	20.5%
<i>Culiseta inornata</i>	13.0	0.3%



Genus Proportions:

Genus	Number	Percent of Total
<i>Aedes/Ochlerotatus</i>	3,776.0	74.7%
<i>Anopheles</i>	1.0	0.0%
<i>Culex</i>	1,262.0	25.0%
<i>Culiseta</i>	13.0	0.3%
Other	5.0	0.1%



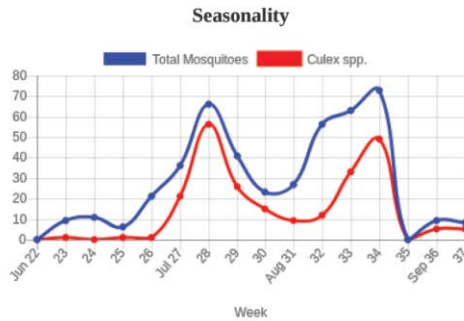
FC-068

Season: 05/01/2022 - 09/20/2022
 Trap Type: CDC Light Trap
 Location: 5029 Crest Dr
 GPS: 40.516000124446485, -105.08547004312277

Total number of trap/nights set: 16.0
 Total number of mosquitoes collected: 449.0
 Average mosquitoes per trap/night: 28.1
 Average Culex per trap/night: 14.6

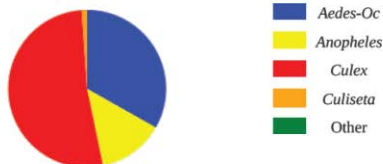
Species collected and abundance:

<i>Aedes dorsalis</i>	12.0	2.7%
<i>Aedes increpitus</i>	9.0	2.0%
<i>Aedes vexans</i>	128.0	28.5%
<i>Anopheles freeborni</i>	61.0	13.6%
<i>Culex pipiens</i>	34.0	7.6%
<i>Culex tarsalis</i>	200.0	44.5%
<i>Culiseta inornata</i>	5.0	1.1%



Genus Proportions:

Genus	Number	Percent of Total
<i>Aedes/Ochlerotatus</i>	149.0	33.2%
<i>Anopheles</i>	61.0	13.6%
<i>Culex</i>	234.0	52.1%
<i>Culiseta</i>	5.0	1.1%
Other	0.0	0.0%



FC-069

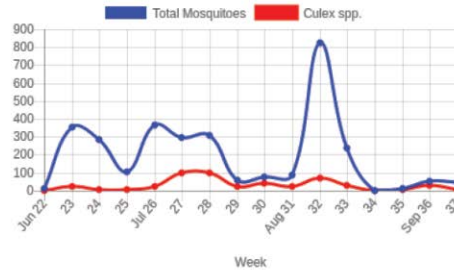
Season: 05/01/2022 - 09/20/2022
 Trap Type: CDC Light Trap
 Location: Linden Lake Rd
 GPS: 40.61451923788414, -105.05314875394106

Total number of trap/nights set: 15.0
 Total number of mosquitoes collected: 3,104.0
 Average mosquitoes per trap/night: 206.9
 Average Culex per trap/night: 31.7

Species collected and abundance:

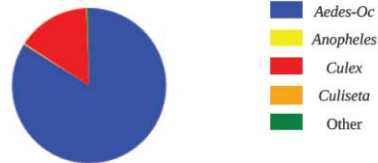
<i>Aedes cinereus</i>	2.0	0.1%
<i>Aedes dorsalis</i>	88.0	2.8%
<i>Aedes increpitus</i>	142.0	4.6%
<i>Aedes melanimon</i>	107.0	3.4%
<i>Aedes vexans</i>	2,265.0	73.0%
<i>Anopheles freeborni</i>	8.0	0.3%
<i>Coquillettidia perturbans</i>	13.0	0.4%
<i>Culex pipiens</i>	28.0	0.9%
<i>Culex tarsalis</i>	447.0	14.4%
<i>Culiseta inornata</i>	4.0	0.1%

Seasonality



Genus Proportions:

Genus	Number	Percent of Total
<i>Aedes/Ochlerotatus</i>	2,604.0	83.9%
<i>Anopheles</i>	8.0	0.3%
<i>Culex</i>	475.0	15.3%
<i>Culiseta</i>	4.0	0.1%
Other	13.0	0.4%



FC-071

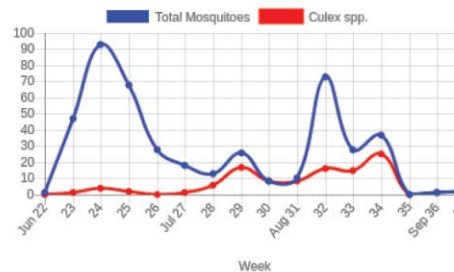
Season: 05/01/2022 - 09/20/2022
 Trap Type: CDC Light Trap
 Location: Silvergate Rd
 GPS: 40.52733008634481, -105.10821014642715

Total number of trap/nights set: 16.0
 Total number of mosquitoes collected: 453.0
 Average mosquitoes per trap/night: 28.3
 Average Culex per trap/night: 6.6

Species collected and abundance:

<i>Aedes dorsalis</i>	14.0	3.1%
<i>Aedes increpitus</i>	22.0	4.9%
<i>Aedes melanimon</i>	11.0	2.4%
<i>Aedes vexans</i>	299.0	66.0%
<i>Culex pipiens</i>	23.0	5.1%
<i>Culex tarsalis</i>	83.0	18.3%
<i>Culiseta inornata</i>	1.0	0.2%

Seasonality



Genus Proportions:

Genus	Number	Percent of Total
<i>Aedes/Ochlerotatus</i>	346.0	76.4%
<i>Anopheles</i>	0.0	0.0%
<i>Culex</i>	106.0	23.4%
<i>Culiseta</i>	1.0	0.2%
Other	0.0	0.0%



FC-072

Season: 05/01/2022 - 09/20/2022

Trap Type: CDC Light Trap

Location: 422 Lake Dr

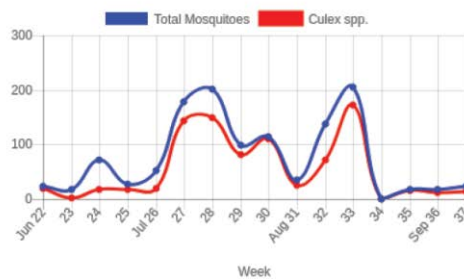
GPS: 40.569530106375986, -105.07116984575985

Total number of trap/nights set: 15.0
Total number of mosquitoes collected: 1,219.0
Average mosquitoes per trap/night: 81.3
Average Culex per trap/night: 57.9

Species collected and abundance:

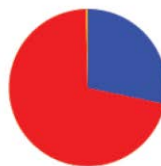
<i>Aedes cinereus</i>	1.0	0.1%
<i>Aedes dorsalis</i>	12.0	1.0%
<i>Aedes increpitus</i>	6.0	0.5%
<i>Aedes melanimon</i>	2.0	0.2%
<i>Aedes vexans</i>	324.0	26.6%
<i>Culex pipiens</i>	78.0	6.4%
<i>Culex tarsalis</i>	791.0	64.9%
<i>Culiseta inornata</i>	5.0	0.4%

Seasonality



Genus Proportions:

Genus	Number	Percent of Total
<i>Aedes/Ochlerotatus</i>	345.0	28.3%
<i>Anopheles</i>	0.0	0.0%
<i>Culex</i>	869.0	71.3%
<i>Culiseta</i>	5.0	0.4%
Other	0.0	0.0%



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

FC-073

Season: 05/01/2022 - 09/20/2022

Trap Type: CDC Light Trap

Location: 118 S Grant

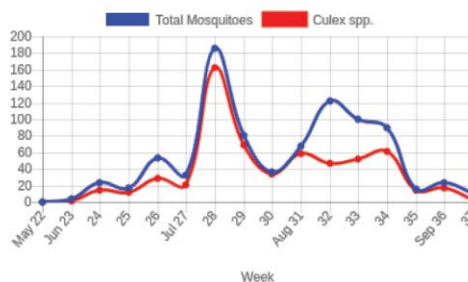
GPS: 40.58634003233039, -105.08899983018637

Total number of trap/nights set: 16.0
Total number of mosquitoes collected: 864.0
Average mosquitoes per trap/night: 54.0
Average Culex per trap/night: 37.3

Species collected and abundance:

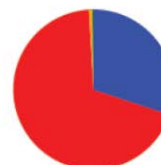
<i>Aedes dorsalis</i>	11.0	1.3%
<i>Aedes increpitus</i>	3.0	0.3%
<i>Aedes melanimon</i>	3.0	0.3%
<i>Aedes vexans</i>	243.0	28.1%
<i>Coquillettidia perturbans</i>	2.0	0.2%
<i>Culex pipiens</i>	117.0	13.5%
<i>Culex tarsalis</i>	479.0	55.4%
<i>Culiseta inornata</i>	6.0	0.7%

Seasonality



Genus Proportions:

Genus	Number	Percent of Total
<i>Aedes/Ochlerotatus</i>	260.0	30.1%
<i>Anopheles</i>	0.0	0.0%
<i>Culex</i>	596.0	69.0%
<i>Culiseta</i>	6.0	0.7%
Other	2.0	0.2%



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

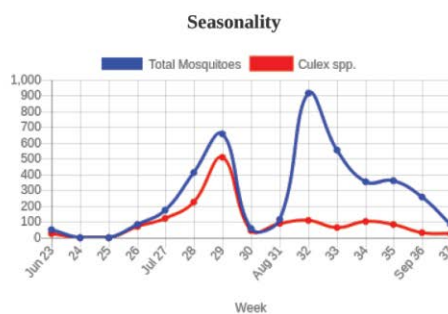
FC-074

Season: 05/01/2022 - 09/20/2022
 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: 4,096.0
 Average mosquitoes per trap/night: 273.1
 Average Culex per trap/night: 101.1

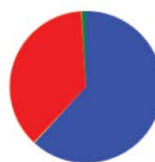
Species collected and abundance:

<i>Aedes dorsalis</i>	637.0	15.6%
<i>Aedes increpitus</i>	1.0	0.0%
<i>Aedes melanimon</i>	62.0	1.5%
<i>Aedes vexans</i>	1,831.0	44.7%
<i>Anopheles freeborni</i>	8.0	0.2%
<i>Coquillettidia perturbans</i>	37.0	0.9%
<i>Culex pipiens</i>	185.0	4.5%
<i>Culex tarsalis</i>	1,331.0	32.5%
<i>Culiseta inornata</i>	4.0	0.1%



Genus Proportions:

Genus	Number	Percent of Total
<i>Aedes/Ochlerotatus</i>	2,531.0	61.8%
<i>Anopheles</i>	8.0	0.2%
<i>Culex</i>	1,516.0	37.0%
<i>Culiseta</i>	4.0	0.1%
Other	37.0	0.9%



Legend:
 Aedes-Oc
 Anopheles
 Culex
 Culiseta
 Other

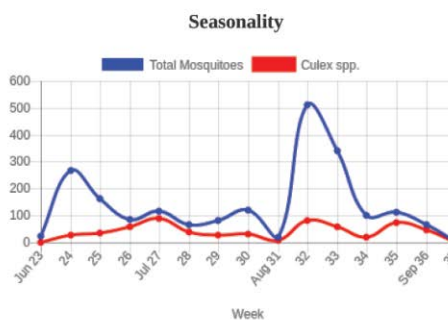
FC-075

Season: 05/01/2022 - 09/20/2022
 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: 2,061.0
 Average mosquitoes per trap/night: 137.4
 Average Culex per trap/night: 39.2

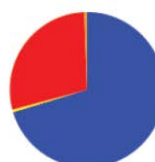
Species collected and abundance:

<i>Aedes dorsalis</i>	48.0	2.3%
<i>Aedes increpitus</i>	3.0	0.1%
<i>Aedes melanimon</i>	56.0	2.7%
<i>Aedes vexans</i>	1,342.0	65.1%
<i>Anopheles freeborni</i>	12.0	0.6%
<i>Coquillettidia perturbans</i>	1.0	0.0%
<i>Culex pipiens</i>	218.0	10.6%
<i>Culex tarsalis</i>	370.0	18.0%
<i>Culiseta inornata</i>	11.0	0.5%



Genus Proportions:

Genus	Number	Percent of Total
<i>Aedes/Ochlerotatus</i>	1,449.0	70.3%
<i>Anopheles</i>	12.0	0.6%
<i>Culex</i>	588.0	28.5%
<i>Culiseta</i>	11.0	0.5%
Other	1.0	0.0%



Legend:
 Aedes-Oc
 Anopheles
 Culex
 Culiseta
 Other

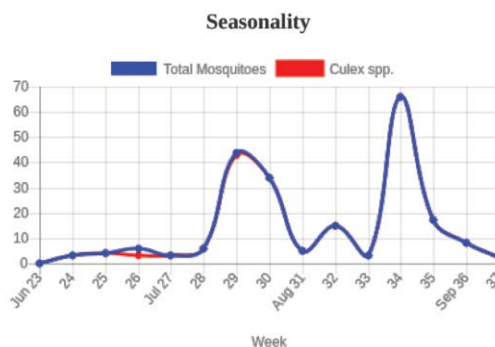
FC-075gr

Season: 05/01/2022 - 09/20/2022
 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: 216.0
 Average mosquitoes per trap/night: 14.4
 Average Culex per trap/night: 14.1

Species collected and abundance:

<i>Aedes vexans</i>	4.0	1.9%
<i>Culex pipiens</i>	209.0	96.8%
<i>Culex tarsalis</i>	3.0	1.4%



Genus Proportions:

Genus	Number	Percent of Total
<i>Aedes/Ochlerotatus</i>	4.0	1.9%
<i>Anopheles</i>	0.0	0.0%
<i>Culex</i>	212.0	98.1%
<i>Culiseta</i>	0.0	0.0%
Other	0.0	0.0%



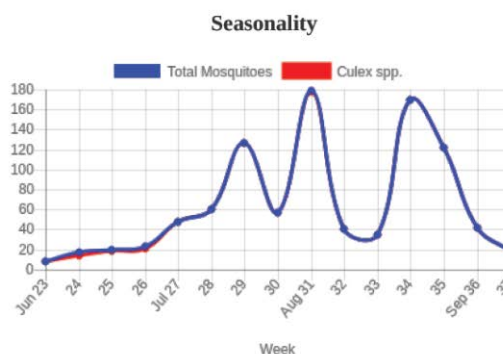
FC-088gr

Season: 05/01/2022 - 09/20/2022
 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: 967.0
 Average mosquitoes per trap/night: 64.5
 Average Culex per trap/night: 63.9

Species collected and abundance:

<i>Aedes dorsalis</i>	1.0	0.1%
<i>Aedes vexans</i>	7.0	0.7%
<i>Anopheles freeborni</i>	1.0	0.1%
<i>Culex pipiens</i>	947.0	97.9%
<i>Culex tarsalis</i>	11.0	1.1%



Genus Proportions:

Genus	Number	Percent of Total
<i>Aedes/Ochlerotatus</i>	8.0	0.8%
<i>Anopheles</i>	1.0	0.1%
<i>Culex</i>	958.0	99.1%
<i>Culiseta</i>	0.0	0.0%
Other	0.0	0.0%



FC-089gr

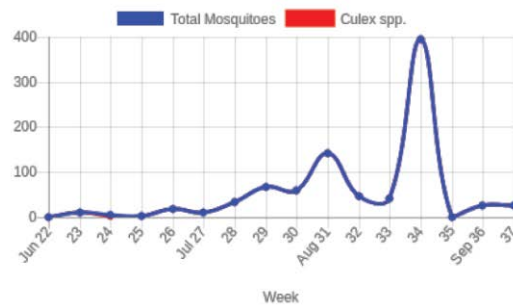
Season: 05/01/2022 - 09/20/2022
 Trap Type: Gravid Trap
 Location: Kunz Ct. and Brook Dr. Gravid
 GPS: 40.53631011931944, -105.10056015104055

Total number of trap/nights set: 16.0
 Total number of mosquitoes collected: 879.0
 Average mosquitoes per trap/night: 54.9
 Average Culex per trap/night: 54.8

Species collected and abundance:

<i>Aedes vexans</i>	1.0	0.1%
<i>Anopheles freeborni</i>	1.0	0.1%
<i>Culex pipiens</i>	843.0	95.9%
<i>Culex tarsalis</i>	34.0	3.9%

Seasonality



Genus Proportions:

Genus	Number	Percent of Total
<i>Aedes/Ochlerotatus</i>	1.0	0.1%
<i>Anopheles</i>	1.0	0.1%
<i>Culex</i>	877.0	99.8%
<i>Culiseta</i>	0.0	0.0%
Other	0.0	0.0%



FC-090gr

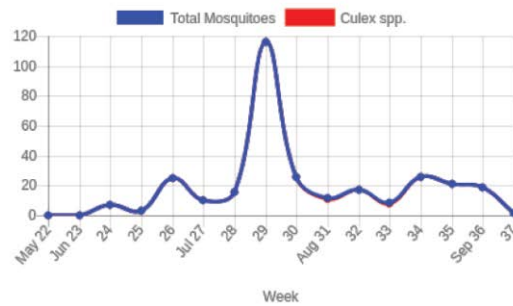
Season: 05/01/2022 - 09/20/2022
 Trap Type: Gravid Trap
 Location: Mountain Grandview Cemetery Gravid
 GPS: 40.58195995773713, -105.111360065639

Total number of trap/nights set: 16.0
 Total number of mosquitoes collected: 309.0
 Average mosquitoes per trap/night: 19.3
 Average Culex per trap/night: 19.2

Species collected and abundance:

<i>Aedes dorsalis</i>	1.0	0.3%
<i>Culex pipiens</i>	303.0	98.1%
<i>Culex tarsalis</i>	4.0	1.3%
<i>Culiseta inornata</i>	1.0	0.3%

Seasonality



Genus Proportions:

Genus	Number	Percent of Total
<i>Aedes/Ochlerotatus</i>	1.0	0.3%
<i>Anopheles</i>	0.0	0.0%
<i>Culex</i>	307.0	99.4%
<i>Culiseta</i>	1.0	0.3%
Other	0.0	0.0%



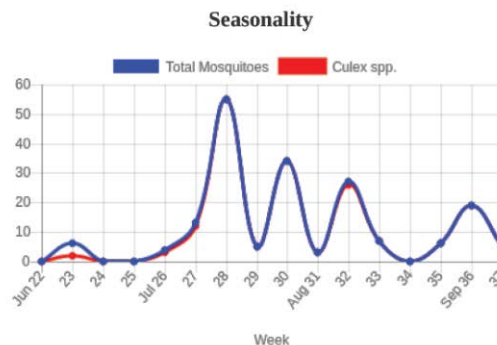
FC-091gr

Season: 05/01/2022 - 09/20/2022
 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: 184.0
 Average mosquitoes per trap/night: 12.3
 Average Culex per trap/night: 11.8

Species collected and abundance:

<i>Aedes increpitus</i>	3.0	1.6%
<i>Aedes vexans</i>	4.0	2.2%
<i>Culex pipiens</i>	164.0	89.1%
<i>Culex tarsalis</i>	13.0	7.1%



Genus Proportions:

Genus	Number	Percent of Total
<i>Aedes/Ochlerotatus</i>	7.0	3.8%
<i>Anopheles</i>	0.0	0.0%
<i>Culex</i>	177.0	96.2%
<i>Culiseta</i>	0.0	0.0%
Other	0.0	0.0%



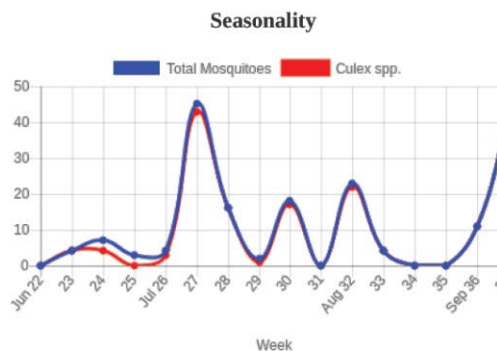
FC-092gr

Season: 05/01/2022 - 09/20/2022
 Trap Type: Gravid Trap
 Location: Udall Natural Gravid
 GPS: 40.587873321668276, -105.06916154175995

Total number of trap/nights set: 14.0
 Total number of mosquitoes collected: 178.0
 Average mosquitoes per trap/night: 12.7
 Average Culex per trap/night: 11.9

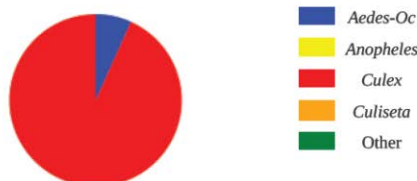
Species collected and abundance:

<i>Aedes dorsalis</i>	1.0	0.6%
<i>Aedes increpitus</i>	1.0	0.6%
<i>Aedes vexans</i>	10.0	5.6%
<i>Culex pipiens</i>	162.0	91.0%
<i>Culex tarsalis</i>	4.0	2.2%



Genus Proportions:

Genus	Number	Percent of Total
<i>Aedes/Ochlerotatus</i>	12.0	6.7%
<i>Anopheles</i>	0.0	0.0%
<i>Culex</i>	166.0	93.3%
<i>Culiseta</i>	0.0	0.0%
Other	0.0	0.0%



FC-093

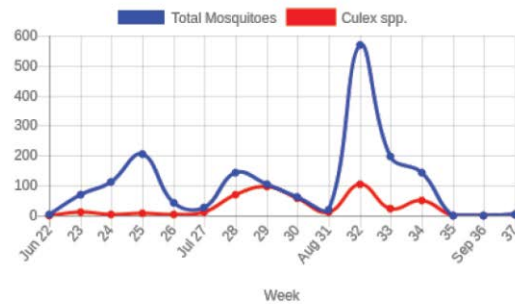
Season: 05/01/2022 - 09/20/2022
 Trap Type: CDC Light Trap
 Location: Lopez Elementary
 GPS: 40.53186000594886, -105.0882501527667

Total number of trap/nights set: 16.0
 Total number of mosquitoes collected: 1,706.0
 Average mosquitoes per trap/night: 106.6
 Average Culex per trap/night: 28.0

Species collected and abundance:

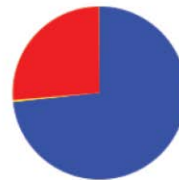
<i>Aedes dorsalis</i>	72.0	4.2%
<i>Aedes increpitus</i>	7.0	0.4%
<i>Aedes melanimon</i>	5.0	0.3%
<i>Aedes trivittatus</i>	1.0	0.1%
<i>Aedes vexans</i>	1,166.0	68.3%
<i>Anopheles freeborni</i>	6.0	0.4%
<i>Culex pipiens</i>	51.0	3.0%
<i>Culex tarsalis</i>	397.0	23.3%
<i>Culiseta inornata</i>	1.0	0.1%

Seasonality



Genus Proportions:

Genus	Number	Percent of Total
<i>Aedes/Ochlerotatus</i>	1,251.0	73.3%
<i>Anopheles</i>	6.0	0.4%
<i>Culex</i>	448.0	26.3%
<i>Culiseta</i>	1.0	0.1%
Other	0.0	0.0%



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

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



2022 WNV Positive Pools

Start Date: 05/01/2022 **End Date:** 09/20/2022

Berthoud

Trap Location	Total Positive Pools
Berthoud East	0
Berthoud North	4
Berthoud Park	1
Berthoud Point	3
Berthoud West	0

Total Positive: 8



2022 WNV Positive Pools

Start Date: 05/01/2022 **End Date:** 09/20/2022

Loveland

Trap Location	Total Positive Pools
9th and DesMoines	6
Big Thompson	1
Boyd Lake	3
Cattail Pond	6
Cr 20 and 9	3
Horseshoe Penninsula	2

Total Positive: 21



2022 WNV Positive Pools

Start Date: 05/01/2022 End Date: 09/20/2022

Fort Collins

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

Trap Location	Total Positive Pools
Prospect Ponds	4
Prospect Ponds Gravid	1
PVH Gravid	1
Red Fox Meadows	0
Red Fox Meadows Gravid	1
Redwood	2
Redwood Gravid	4
Registry Ridge	0
Rock Creek	6
Sage Creek North	1
Sage Creek North Gravid	1
Silvergate Rd	1
Spring Creek Trail-- Michener Dr	0
Springwood and Lochwood	1
Stuart and Dorset	0
Udall Natural Gravid	2
Water's Edge at Blue Mesa	0
West Chase	6
Westshore Ct	2
Willow Springs	1
Total Positive: 90	

Appendix 3: Ground Adult Mosquito Control Application Data

Contract	Date	Zone	Spray Miles	Ounces Sprayed
Fort Collins	7/31/2022	FC2	11.34	413.33
Fort Collins	7/31/2022	FC3	12.35	440.45
Fort Collins	7/31/2022	FC3	14.04	498.33
Fort Collins	7/31/2022	FC1	12.32	443.67
Fort Collins	7/31/2022	FC2	16.21	581.42
Fort Collins	7/31/2022	FC3	14.96	535.52
Fort Collins	8/3/2022	FC1	11.93	425.66
Fort Collins	8/3/2022	FC2	11.16	400.58
Fort Collins	8/3/2022	FC3	13.51	474.92
Fort Collins	8/3/2022	FC3	12.74	452.4
Fort Collins	8/3/2022	FC2	15.81	567.81
Fort Collins	8/3/2022	FC3	0.83	17.03
Fort Collins	8/3/2022	FC3	15.67	537.83
Fort Collins	8/25/2022	FC6	13.13	467.66
Fort Collins	8/25/2022	FC6	3.15	112.49
Fort Collins	8/25/2022	FC7	5.56	199.09
Fort Collins	8/25/2022	FC6	15.97	572.99
Fort Collins	8/25/2022	FC7	5.83	208.97
Fort Collins	8/25/2022	FC7	8.96	320.82
Fort Collins	8/25/2022	FC6	7.95	284.26
Fort Collins	8/25/2022	FC6	10.85	403.36
Fort Collins	8/25/2022	FC7	1.92	68.47
Fort Collins	8/25/2022	FC6	16.79	589.62
Fort Collins	8/28/2022	FC6	17.96	637
Fort Collins	8/28/2022	FC6	9.82	351.18
Fort Collins	8/28/2022	FC7	5.8	209.64
Fort Collins	8/28/2022	FC6	16.11	579.54
Fort Collins	8/28/2022	FC7	4.94	176.17
Fort Collins	8/28/2022	FC6	13.28	475.79
Fort Collins	8/28/2022	FC7	1.88	67.16
Fort Collins	8/28/2022	FC7	8.92	322.83
Fort Collins	8/28/2022	FC6	8.59	287.67
Fort Collins	8/29/2022	FC6	3.01	110.79
Fort Collins	9/1/2022	FC6	14.45	510.8
Fort Collins	9/1/2022	FC5	12.95	462.73
Fort Collins	9/1/2022	FC6	14.77	526.82
Fort Collins	9/1/2022	FC2	14.63	522.64
Fort Collins	9/1/2022	FC4	6.02	211.81

Fort Collins	9/1/2022	FC2	12.37	449.54
Fort Collins	9/1/2022	FC5	13.68	485.16
Fort Collins	9/1/2022	FC6	9.25	333.64
Fort Collins	9/1/2022	FC4	16.51	585.37
Fort Collins	9/6/2022	FC6	9.32	333.81
Fort Collins	9/6/2022	FC5	13.81	488.11
Fort Collins	9/6/2022	FC4	16.64	587.53
Fort Collins	9/6/2022	FC2	12.45	454.13
Fort Collins	9/6/2022	FC6	14.97	536.8
Fort Collins	9/6/2022	FC6	15.46	551.26
Fort Collins	9/6/2022	FC2	15.02	537.4
Fort Collins	9/6/2022	FC4	6.1	214.81
Fort Collins	9/6/2022	FC5	13.1	464.13
Fort Collins	9/11/2022	FC2	15.38	554.44
Fort Collins	9/11/2022	FC3	14.3	506.09
Fort Collins	9/11/2022	FC6	9.66	341.06
Fort Collins	9/11/2022	FC1	11.33	405.45
Fort Collins	9/11/2022	FC6	9.9	350.2
Fort Collins	9/11/2022	FC3	12.68	448.94
Fort Collins	9/11/2022	FC2	10.64	381.25
Fort Collins	9/11/2022	FC6	11.92	427.25
Fort Collins	9/14/2022	FC2	10.71	385.48
Fort Collins	9/14/2022	FC6	12.16	431.9
Fort Collins	9/14/2022	FC6	9.66	340.94
Fort Collins	9/14/2022	FC4	11.56	408.84
Fort Collins	9/14/2022	FC3	13.77	484.85
Fort Collins	9/14/2022	FC6	11.13	391.89
Fort Collins	9/14/2022	FC1	11.13	397.09
Fort Collins	9/14/2022	FC2	15.07	549.64

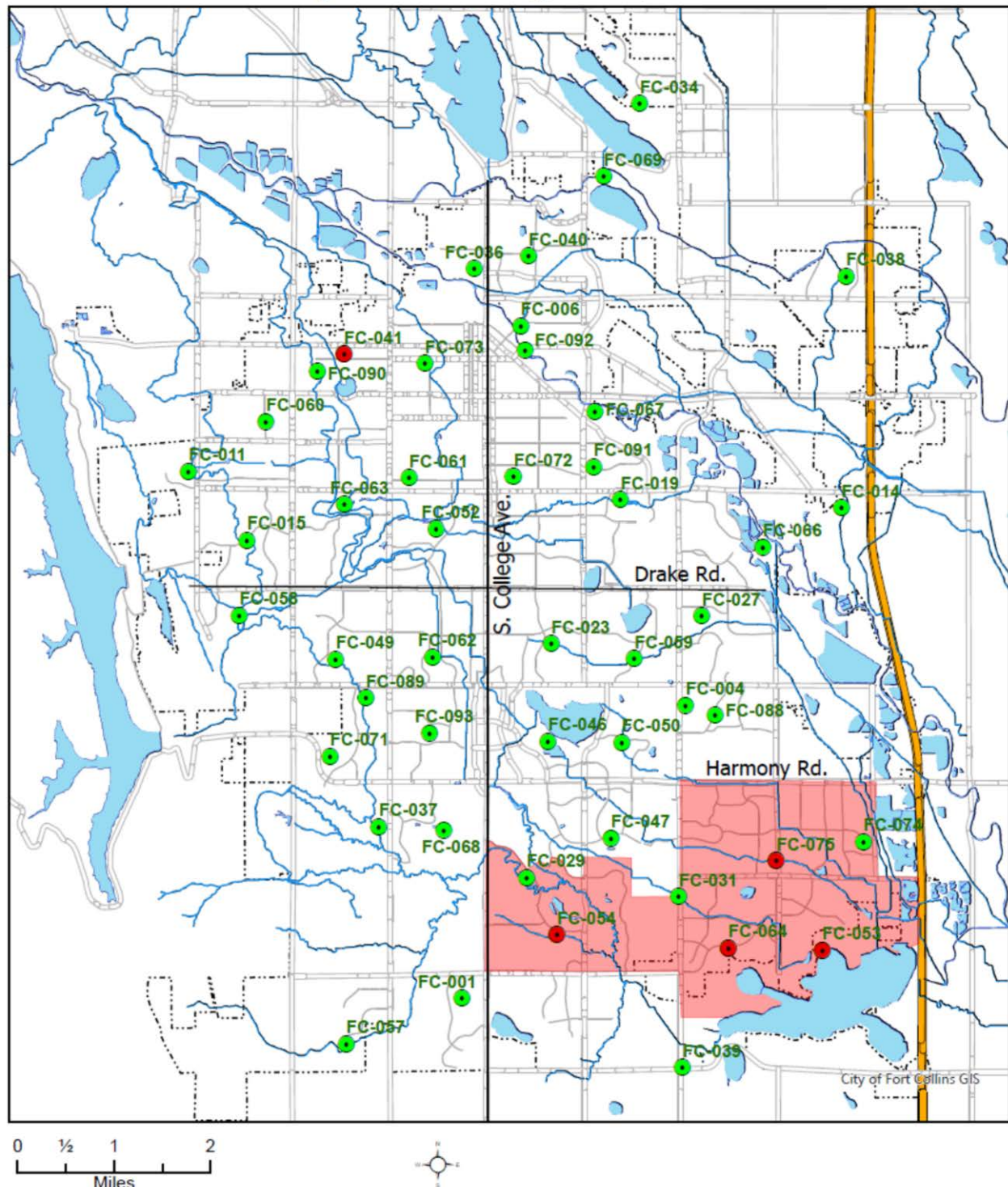
Totals	765.79	27,296.25
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Appendix 4: Scheduled Emergency Application Maps

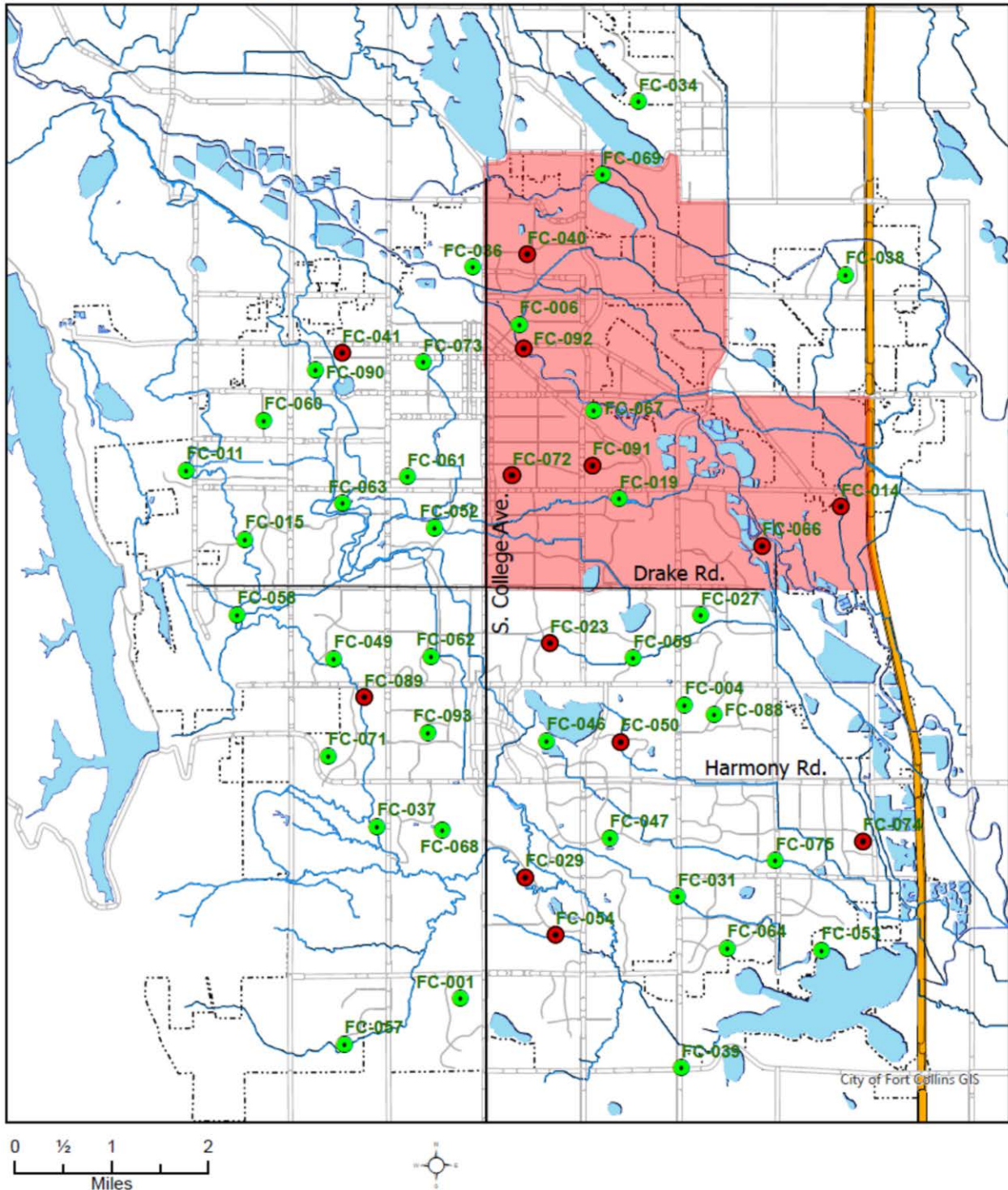
West Nile Virus - City of Fort Collins

Mosquito Spray Area

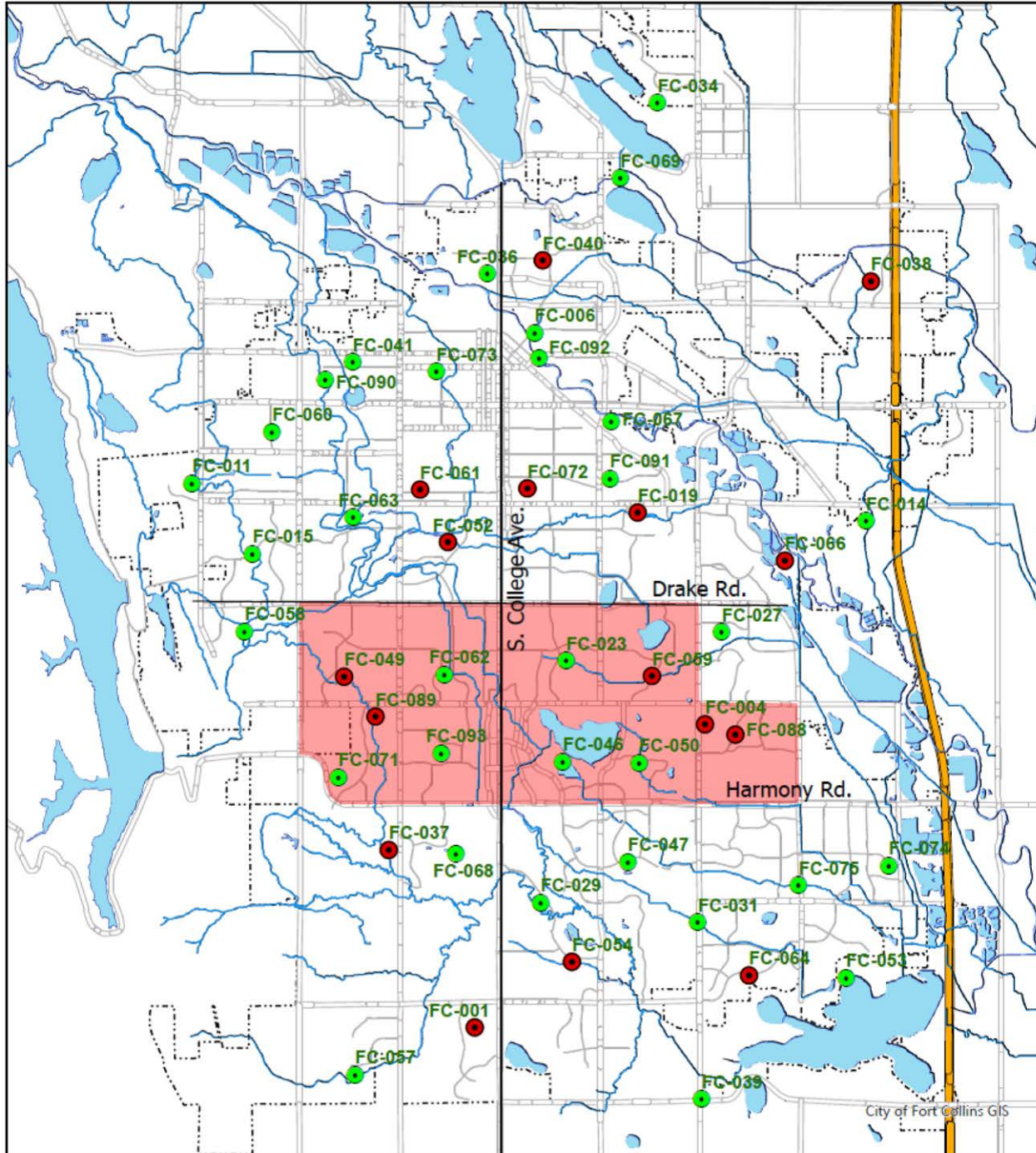
July 31 and August 3, 2022



West Nile Virus - City of Fort Collins
Mosquito Spraying
Thursday, August 25 and Sunday, August 28



West Nile Virus - City of Fort Collins
Mosquito Spraying
Thursday, September 1 and Tuesday, September 6



West Nile Virus - City of Fort Collins
Mosquito Spraying
Sunday, September 11 and Wednesday, September 14

