2020 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 2020

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Program Objectives

Vector Disease Control International, LLC (VDCI) completed its 17th year of cost-effective Integrated Mosquito Management (IMM) for the City of Fort Collins in 2020. 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.

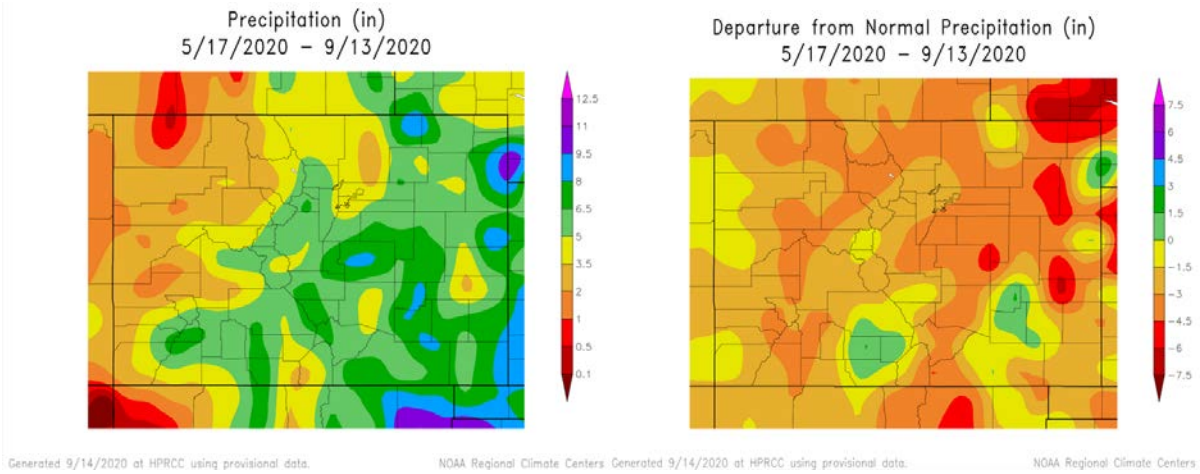
VDCI's Commitment

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.

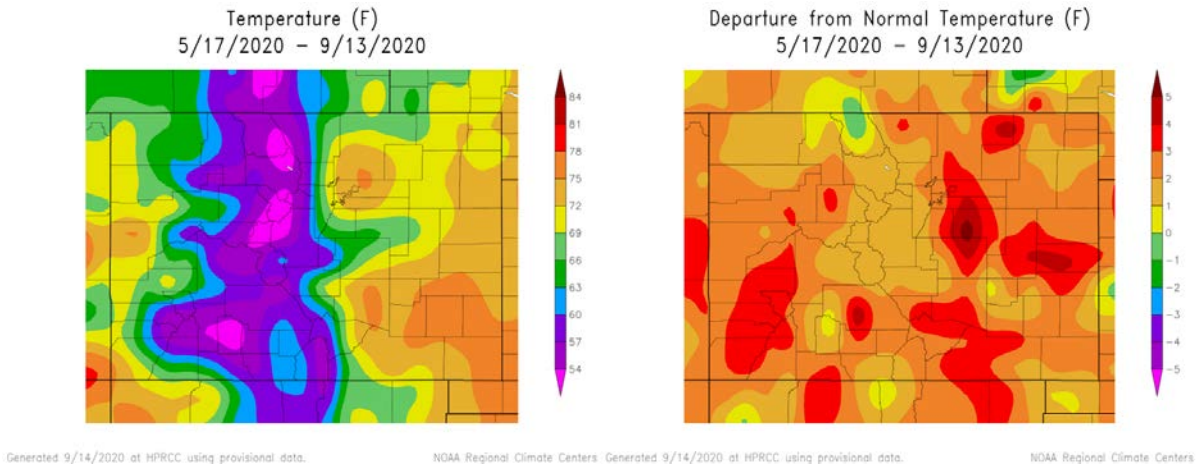
Vector Disease Control International, as the contractor for Fort Collins, will continue to use proven scientific Integrated Mosquito Management techniques to survey and control local mosquito populations using biorational larval controls and limited low-toxicity insecticide applications. All of the methods 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.

2020 Season Perspective

At VDCI we have come to expect each Colorado summer to present a unique set of temperature, precipitation, irrigation, and human interactions that combine to create new and different challenges in both mosquito control and mosquito-borne disease proliferation. Precipitation in Northern Colorado was below average with some areas seeing -3 to -4.5 inches less than usual. Due to the dry season, and less aquatic habitats for mosquitoes to lay their eggs, adult mosquito abundance remained relatively low in 2020.



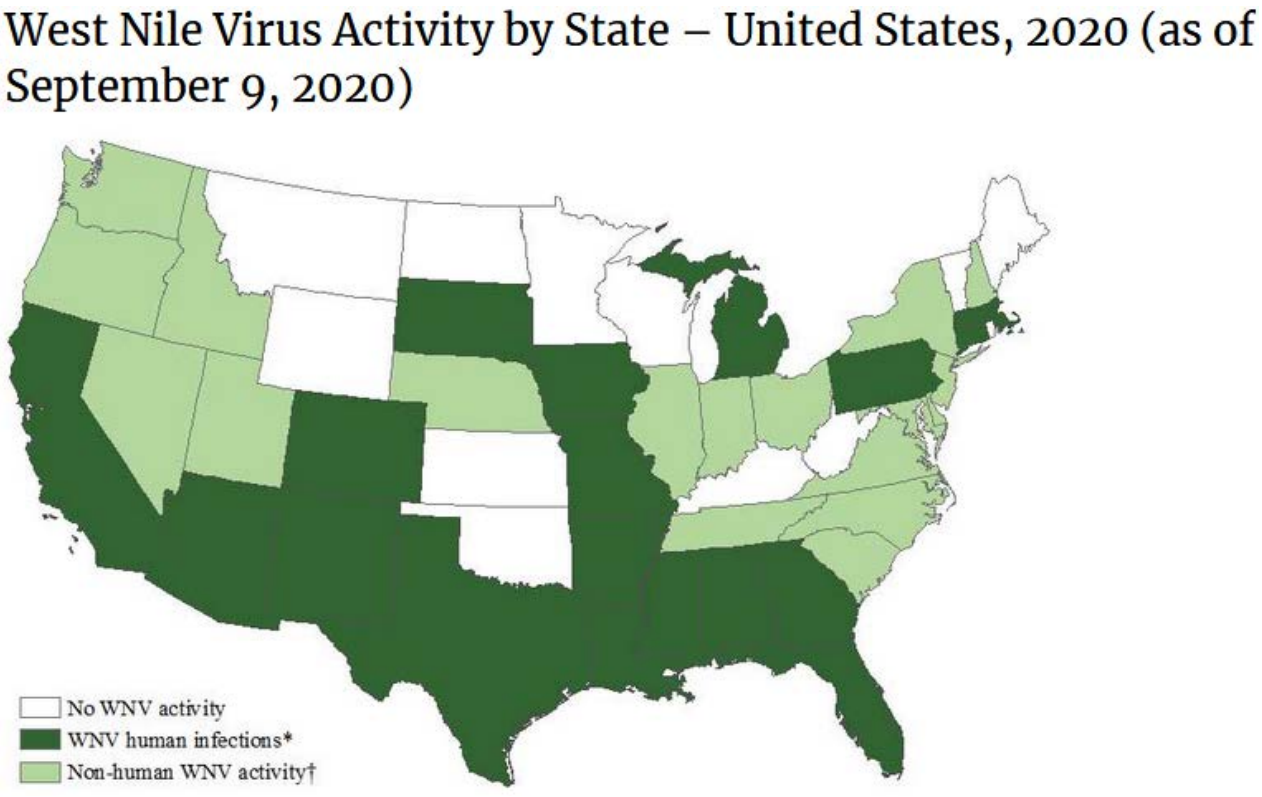
Temperatures throughout Northern Colorado seem to increase every summer and 2020 was no different. The 2020 season was hot and dry, with Larimer and Weld counties each tallying over 60 days of 90+ degree highs. However, as September approached, the nightly lows began to dip into the 50s and even 40s, which greatly reduces both the mosquito life cycle and adult mosquito activity. On September 8th the first snow of the season came much earlier than usual in Northern Colorado. Along with the snow, sub-freezing temperatures do kill off adult mosquito populations. However, some overwintering species, such as those in the genera Culex can and do move indoors in anticipation for the winter.



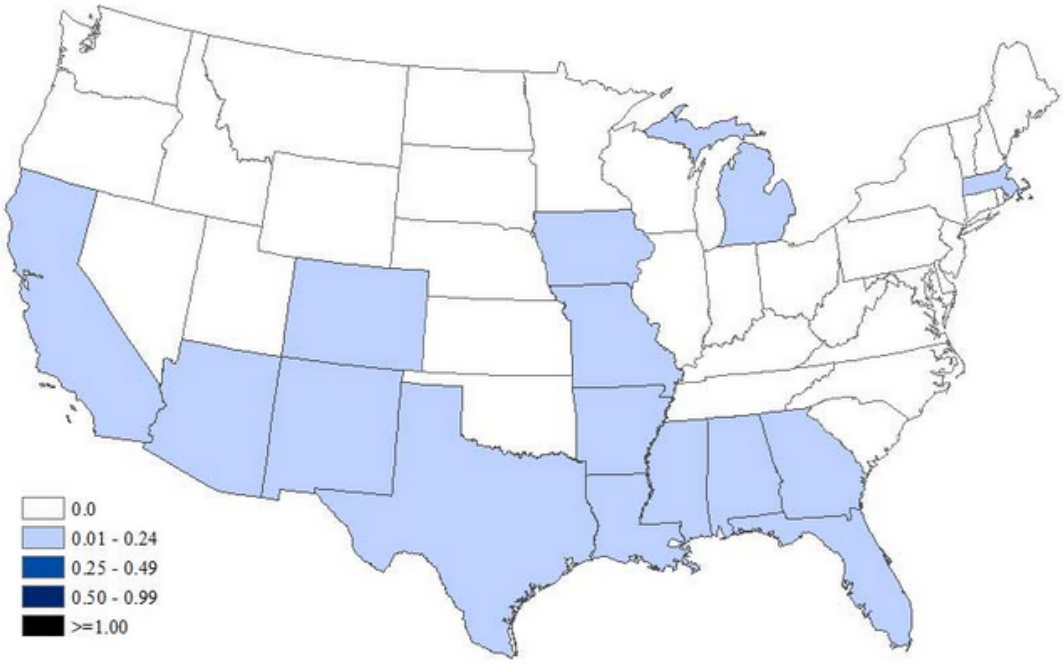
West Nile Virus Season

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

As of September 9th, 2020, a total of 36 states and the District of Columbia have reported West Nile virus infections in people, birds, or mosquitoes. Overall, 81 cases of West Nile virus disease in people have been reported to CDC. Of these, 62 (77%) were classified as neuroinvasive disease (such as meningitis or encephalitis) and 19 (23%) were classified as non-neuroinvasive disease.



West Nile Virus Neuroinvasive Disease Incidence by State – United States, 2020 (as of September 9, 2020)



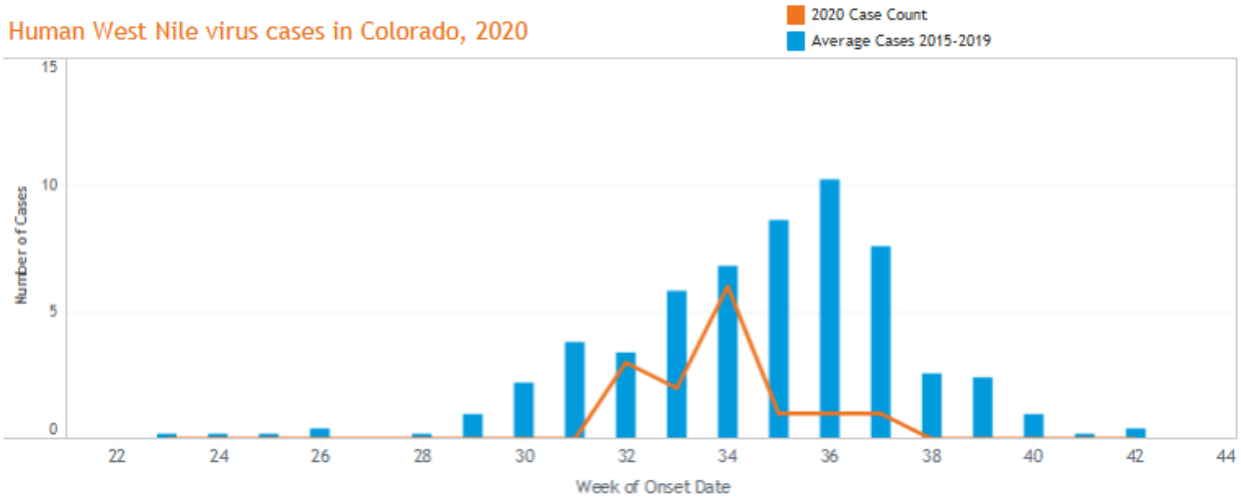
Colorado 2020

As of September 15th, 2020 The Colorado Department of Health and Environment reports a total of 14 human cases of West Nile virus infection from the state of Colorado. In Northern Colorado, 3 human cases are reported from Larimer County, and 1 from Boulder County. While we have passed the historical peak of WNv risk these numbers are expected to rise as there is often a delay in onset of symptoms, diagnosis and reporting. Please note that the additional cases reported by CDPHE will also be reported to the Centers for Disease Control.

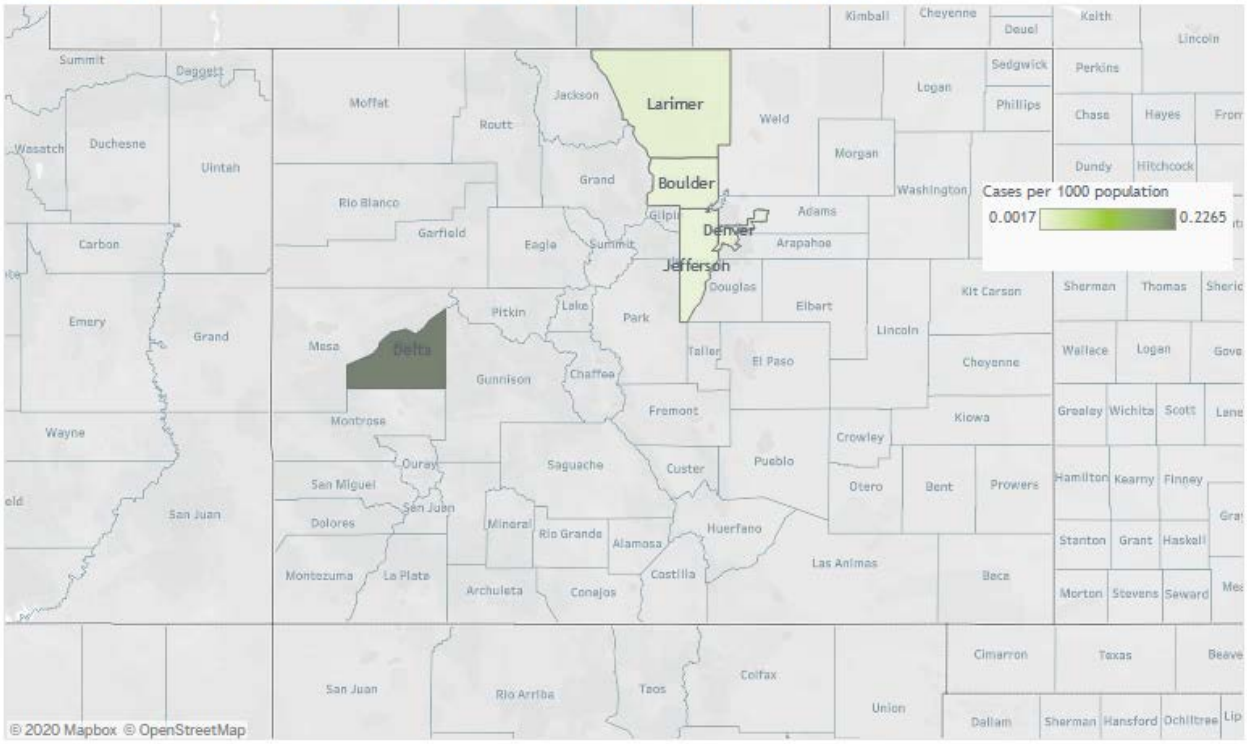
Five Counties across the state of Colorado have reported human West Nile virus infection. These include Boulder, Delta, Denver, Jefferson, and Larimer.

Human Cases: 14	Deaths: 0	Neuroinvasive Cases: 3	Hospitalized Cases: 4

Human West Nile virus cases in Colorado, 2020



Human West Nile virus cases per 1000 population by county of residence, 2020



Please note that this map represents case count by population and not raw cases per county.

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 18th 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 force by mid-June.

In 2020, Vector Disease Control field technicians performed 6,363 larval site inspections, of which 4,473 (70.3%) were wet upon inspection, 1,976 (44.2% of wet sites) were producing mosquito larvae. To prevent these larvae from emerging as adult mosquitoes, VDCI applied 7,499.5 lbs. of VectoBac (Bti) and 9.19 gal of BVA 2 mineral oil to 1,171.2 acres of land.

During 2020, VDCI technicians performed treatments at approximately 2,390 storm drains as part of the City of Fort Collins' Urban larviciding program to control larval mosquito populations in storm drains and catch basins. Drains that were we 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 2020, 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 2020, there were 760 CDC light surveillance traps set within Fort Collins, which collected a total of 43,734 mosquitoes. This year there was an average of 57.5 mosquitoes caught per trap per night and an average 25.7 *Culex* mosquitoes per trap per night. The composition of mosquitoes collected was 44.7% (19,557) *Culex spp.,* 52.2% (22,842) *Aedes/Ochlerotatus spp.,* 0.3% (113) *Anopheles spp.,* and 0.9% (397) *Culiseta spp.*

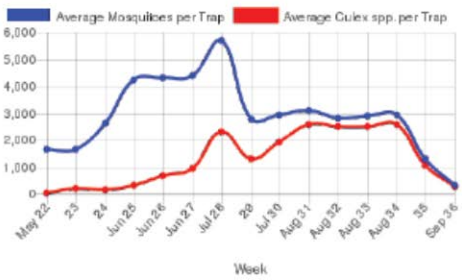
2020 Fort Collins Trap Composite Data

Total number of trap/nights set:	760
Total number of mosquitoes collected:	43,734.0
Average mosquitoes per trap/night:	57.5
Average Culex per trap/night:	25.7

Species collected and abundance:

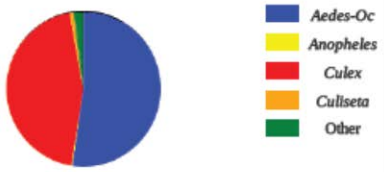
Aedes cinereus	153.0	0.3%
Aedes dorsalis	942.0	2.2%
Aedes fitchii	1.0	0.0%
Aedes hendersoni	1.0	0.0%
Aedes increpitus	3,571.0	8.2%
Aedes melanimon	545.0	1.2%
Aedes nigromaculis	7.0	0.0%
Aedes spp.	125.0	0.3%
Aedes trivittatus	30.0	0.1%
Aedes vexans	17,467.0	39.9%
Anopheles freeborni	113.0	0.3%
Coquillettidia perturbans	825.0	1.9%
Culex pipiens	10,901.0	24.9%
Culex tarsalis	8,656.0	19.8%
Culiseta incidens	5.0	0.0%
Culiseta inornata	392.0	0.9%

Seasonality



Genus Proportions:

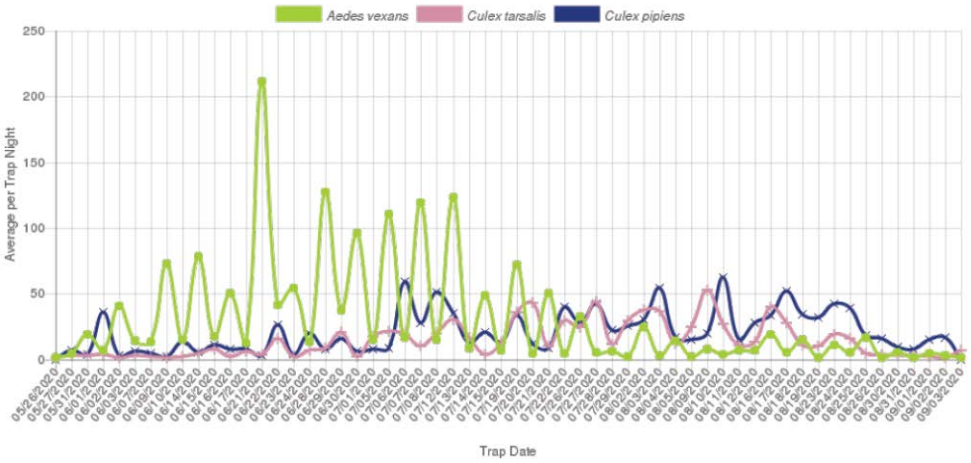
Genus	Number	Percent of Total
Aedes/Ochlerotatus	22,842	52.2%
Anopheles	113	0.3%
Culex	19,557	44.7%
Culiseta	397	0.9%
Other	825	1.9%



Adult Mosquito Surveillance Summary

Start Date: 05/01/2020 **End Date:** 09/09/2020

Fort Collins



Vector Disease Control International
7000 N. Broadway, Suite 108
Denver, CO 80221

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 14th, 2020 Colorado State University's Department of Microbiology, Immunology and Pathology, has tested a total of 1,219 mosquito pools from Larimer County. A total of 37 mosquito pool samples have tested positive for WNv with 1 of those being collected from Berthoud, 3 from Loveland and 33 from the Fort Collins. One additional positive was collected in Berthoud, however the sample was collected in Weld county rather than Larimer. Testing of these mosquitoes for West Nile virus is paid for by the City of Fort Collins, Berthoud, and 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. There were no adult mosquito control operations performed by the City of Fort Collins during 2020.

VDCI has been privately contracted to perform adult mosquito control for Greenstone HOA, Lindenwood HOA, Ridgewood Hills HOA, and Willow Springs HOA, during the 2020 season. A total of 76.1 road miles within these neighborhoods were sprayed via ground based vehicles with Ultra Low Volume (ULV) AquaKontrol mosquito adulticides to reduce adult mosquito populations on the dates listed below.

Please see Appendix 3 for Ground Adulticide Application Data

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 21 phone calls or emails from Fort Collins residents in 2020. VDCI received 8 calls from residents reporting new larval mosquito sites in their area. VDCI inspected all of the reported sites and added new areas if found producing mosquito larvae. VDCI received 9 mosquito annoyance calls from residents of the City of Fort Collins. VDCI received 3 calls from residents requesting information about the City of Fort Collins mosquito control program and how decisions are made about adulticiding. VDCI provided the relevant information and directed them to our website for further information about the products used. There was 1 resident requesting to be added to the call notification program and they were directed to the City of Fort Collins websites (www.fcgov.com/westnile).

CALL NOTIFICATION & SHUTOFF SYSTEM

VDCI continues to maintain a comprehensive Call Notification & Shutoff database and will notify residents on the list when conducting ULV adulticide spray applications within the City of Fort Collins.

DAILY POSTING OF ULV SPRAY ZONES are maintained and updated online daily at http://www.vdci.net/colorado

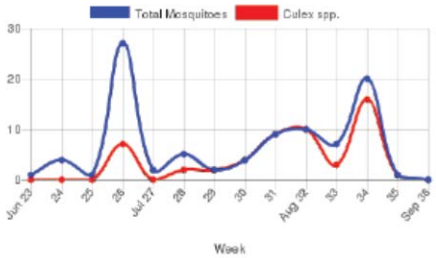
Appendix 1: Individual Light Trap Summaries

FC-001

Season: 05/01/2020 - 09/09/2020
Trap Type: CDC Light Trap
Location: Magic Carpet
GPS: 40.49087011315602, -105.08256990462542

Total number of trap/nights set:	14.0
Total number of mosquitoes collected:	93.0
Average mosquitoes per trap/night:	6.6
Average Culex per trap/night:	3.9

Seasonality

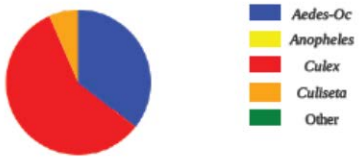


Species collected and abundance:

Aedes dorsalis	20.0	21.5%
Aedes melanimon	2.0	2.2%
Aedes spp.	1.0	1.1%
Aedes vexans	10.0	10.8%
Culex pipiens	25.0	26.9%
Culex tarsalis	29.0	31.2%
Culiseta inornata	6.0	6.5%

Genus Proportions:

Genus	Number	Percent of Total
Aedes/Ochlerotatus	33.0	35.5%
Anopheles	0.0	0.0%
Culex	54.0	58.1%
Culiseta	6.0	6.5%
Other	0.0	0.0%

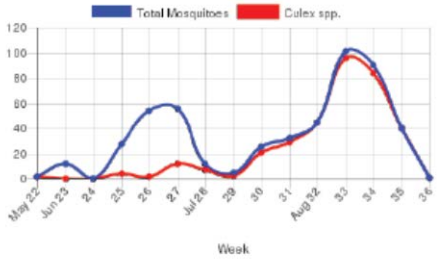


FC-004

Season: 05/01/2020 - 09/09/2020
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:	503.0
Average mosquitoes per trap/night:	33.5
Average Culex per trap/night:	23.1

Seasonality

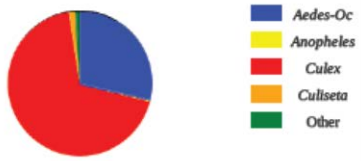


Species collected and abundance:

Aedes dorsalis	13.0	2.6%
Aedes increpitus	12.0	2.4%
Aedes melanimon	3.0	0.6%
Aedes vexans	116.0	23.1%
Anopheles freeborni	1.0	0.2%
Coquillettidia perturbans	5.0	1.0%
Culex pipiens	133.0	26.4%
Culex tarsalis	213.0	42.3%
Culiseta inornata	7.0	1.4%

Genus Proportions:

Genus	Number	Percent of Total
Aedes/Ochlerotatus	144.0	28.6%
Anopheles	1.0	0.2%
Culex	346.0	68.8%
Culiseta	7.0	1.4%
Other	5.0	1.0%

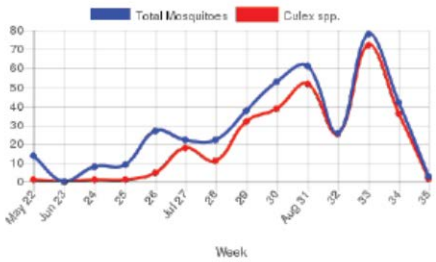


FC-006

Season: 05/01/2020 - 09/09/2020
Trap Type: CDC Light Trap
Location: N. Linden
GPS: 40.592327859908366, -105.06629493087529

Total number of trap/nights set:	14.0
Total number of mosquitoes collected:	403.0
Average mosquitoes per trap/night:	28.8
Average Culex per trap/night:	21.1

Seasonality

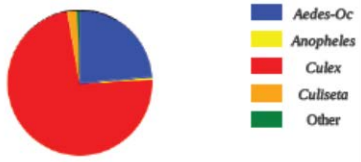


Species collected and abundance:

Aedes cinereus	4.0	1.0%
Aedes dorsalis	9.0	2.2%
Aedes increpitus	1.0	0.2%
Aedes melanimon	2.0	0.5%
Aedes vexans	79.0	19.6%
Anopheles freeborni	2.0	0.5%
Coquillettidia perturbans	2.0	0.5%
Culex pipiens	154.0	38.2%
Culex tarsalis	141.0	35.0%
Culiseta inornata	9.0	2.2%

Genus Proportions:

Genus	Number	Percent of Total
Aedes/Ochlerotatus	95.0	23.6%
Anopheles	2.0	0.5%
Culex	295.0	73.2%
Culiseta	9.0	2.2%
Other	2.0	0.5%

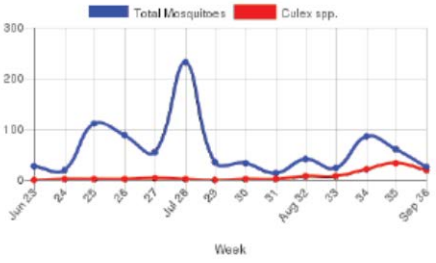


FC-011

Season: 05/01/2020 - 09/09/2020
Trap Type: CDC Light Trap
Location: Golden Current
GPS: 40.56947993409379, -105.13603001832962

Total number of trap/nights set:	14.0
Total number of mosquitoes collected:	849.0
Average mosquitoes per trap/night:	60.6
Average Culex per trap/night:	7.7

Seasonality



Species collected and abundance:

Aedes cinereus	15.0	1.8%
Aedes dorsalis	8.0	0.9%
Aedes increpitus	38.0	4.5%
Aedes melanimon	3.0	0.4%
Aedes spp.	53.0	6.2%
Aedes vexans	618.0	72.8%
Anopheles freeborni	1.0	0.1%
Coquillettidia perturbans	2.0	0.2%
Culex pipiens	80.0	9.4%
Culex tarsalis	28.0	3.3%
Culiseta inornata	3.0	0.4%

Genus Proportions:

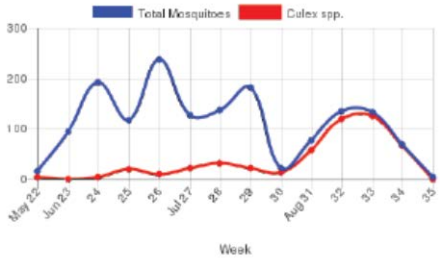
Genus	Number	Percent of Total
Aedes/Ochlerotatus	735.0	86.6%
Anopheles	1.0	0.1%
Culex	108.0	12.7%
Culiseta	3.0	0.4%
Other	2.0	0.2%

FC-014

Season: 05/01/2020 - 09/09/2020
Trap Type: CDC Light Trap
Location: FC Visitors Center
GPS: 40.56359015990421, -105.00656180083752

Total number of trap/nights set:	14.0
Total number of mosquitoes collected:	1,549.0
Average mosquitoes per trap/night:	110.6
Average Culex per trap/night:	36.0

Seasonality

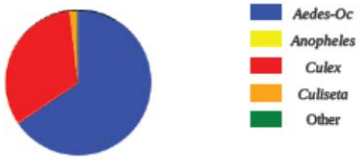


Species collected and abundance:

Aedes dorsalis	48.0	3.1%
Aedes increpitus	253.0	16.3%
Aedes melanimon	83.0	5.4%
Aedes spp.	1.0	0.1%
Aedes vexans	631.0	40.7%
Anopheles freeborni	1.0	0.1%
Coquillettidia perturbans	3.0	0.2%
Culex pipiens	161.0	10.4%
Culex tarsalis	343.0	22.1%
Culiseta inornata	25.0	1.6%

Genus Proportions:

Genus	Number	Percent of Total
Aedes/Ochlerotatus	1,016.0	65.6%
Anopheles	1.0	0.1%
Culex	504.0	32.5%
Culiseta	25.0	1.6%
Other	3.0	0.2%

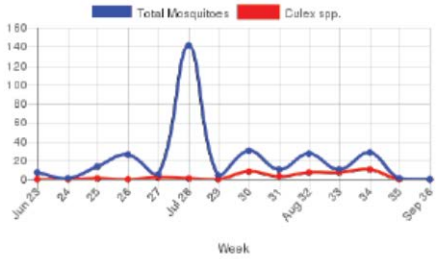


FC-015

Season: 05/01/2020 - 09/09/2020
Trap Type: CDC Light Trap
Location: Stuart and Dorset
GPS: 40.5600827919436, -105.12403752654791

Total number of trap/nights set:	14.0
Total number of mosquitoes collected:	305.0
Average mosquitoes per trap/night:	21.8
Average Culex per trap/night:	2.9

Seasonality

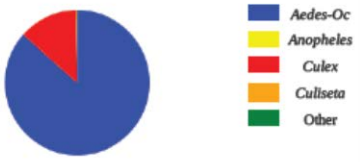


Species collected and abundance:

Aedes dorsalis	4.0	1.3%
Aedes increpitus	4.0	1.3%
Aedes melanimon	9.0	3.0%
Aedes vexans	247.0	81.0%
Culex pipiens	30.0	9.8%
Culex tarsalis	10.0	3.3%
Culiseta inornata	1.0	0.3%

Genus Proportions:

Genus	Number	Percent of Total
Aedes/Ochlerotatus	264.0	86.6%
Anopheles	0.0	0.0%
Culex	40.0	13.1%
Culiseta	1.0	0.3%
Other	0.0	0.0%

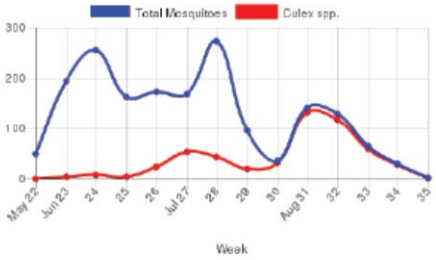


FC-019

Season: 05/01/2020 - 09/09/2020
Trap Type: CDC Light Trap
Location: Edora Park
GPS: 40.56558599182539, -105.05203027278186

Total number of trap/nights set:	14.0
Total number of mosquitoes collected:	1,778.0
Average mosquitoes per trap/night:	127.0
Average Culex per trap/night:	38.0

Seasonality

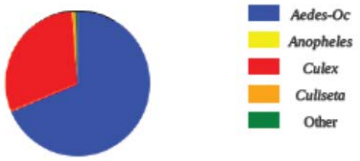


Species collected and abundance:

Aedes dorsalis	17.0	1.0%
Aedes increpitus	587.0	33.0%
Aedes melanimon	5.0	0.3%
Aedes vexans	614.0	34.5%
Anopheles freeborni	2.0	0.1%
Coquillettidia perturbans	7.0	0.4%
Culex pipiens	134.0	7.5%
Culex tarsalis	398.0	22.4%
Culiseta inornata	14.0	0.8%

Genus Proportions:

Genus	Number	Percent of Total
Aedes/Ochlerotatus	1,223.0	68.8%
Anopheles	2.0	0.1%
Culex	532.0	29.9%
Culiseta	14.0	0.8%
Other	7.0	0.4%

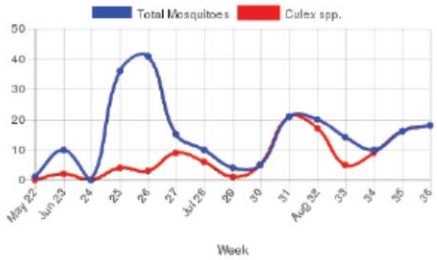


FC-023

Season: 05/01/2020 - 09/09/2020
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:	221.0
Average mosquitoes per trap/night:	14.7
Average Culex per trap/night:	7.7

Seasonality

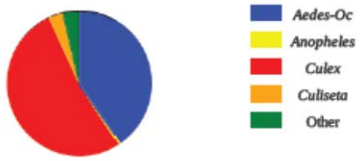


Species collected and abundance:

Aedes dorsalis	12.0	5.4%
Aedes increpitus	8.0	3.6%
Aedes melanimon	3.0	1.4%
Aedes vexans	66.0	29.9%
Anopheles freeborni	1.0	0.5%
Coquillettidia perturbans	8.0	3.6%
Culex pipiens	49.0	22.2%
Culex tarsalis	67.0	30.3%
Culiseta inornata	7.0	3.2%

Genus Proportions:

Genus	Number	Percent of Total
Aedes/Ochlerotatus	89.0	40.3%
Anopheles	1.0	0.5%
Culex	116.0	52.5%
Culiseta	7.0	3.2%
Other	8.0	3.6%

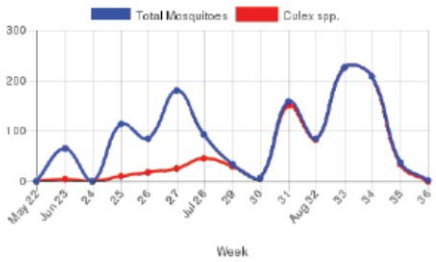


FC-027

Season: 05/01/2020 - 09/09/2020
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:	1,295.0
Average mosquitoes per trap/night:	86.3
Average Culex per trap/night:	56.2

Seasonality

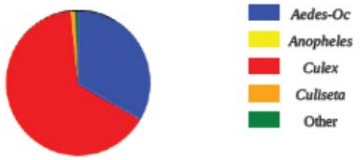


Species collected and abundance:

Aedes dorsalis	14.0	1.1%
Aedes increpitus	158.0	12.2%
Aedes melanimon	14.0	1.1%
Aedes vexans	245.0	18.9%
Anopheles freeborni	1.0	0.1%
Coquillettidia perturbans	7.0	0.5%
Culex pipiens	271.0	20.9%
Culex tarsalis	572.0	44.2%
Culiseta inornata	13.0	1.0%

Genus Proportions:

Genus	Number	Percent of Total
Aedes/Ochlerotatus	431.0	33.3%
Anopheles	1.0	0.1%
Culex	843.0	65.1%
Culiseta	13.0	1.0%
Other	7.0	0.5%

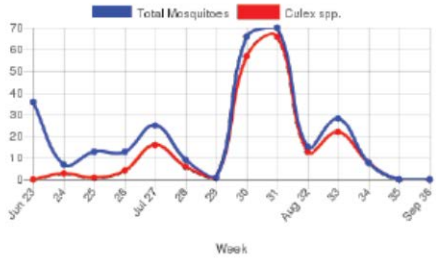


FC-029

Season: 05/01/2020 - 09/09/2020
Trap Type: CDC Light Trap
Location: Ben's Park
GPS: 40.51136844640155, -105.07185079157352

Total number of trap/nights set:	14.0
Total number of mosquitoes collected:	291.0
Average mosquitoes per trap/night:	20.8
Average Culex per trap/night:	14.1

Seasonality

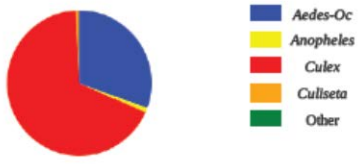


Species collected and abundance:

Aedes dorsalis	14.0	4.8%
Aedes increpitus	3.0	1.0%
Aedes vexans	72.0	24.7%
Anopheles freeborni	3.0	1.0%
Culex pipiens	38.0	13.1%
Culex tarsalis	159.0	54.6%
Culiseta inornata	2.0	0.7%

Genus Proportions:

Genus	Number	Percent of Total
Aedes/Ochlerotatus	89.0	30.6%
Anopheles	3.0	1.0%
Culex	197.0	67.7%
Culiseta	2.0	0.7%
Other	0.0	0.0%

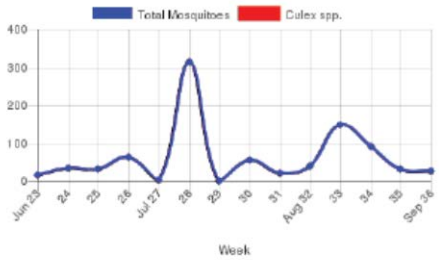


FC-029gr

Season: 05/01/2020 - 09/09/2020
Trap Type: Gravid Trap
Location: Ben's Park Gravid
GPS: 40.51136309344342, -105.07115509361029

Total number of trap/nights set:	14.0
Total number of mosquitoes collected:	872.0
Average mosquitoes per trap/night:	62.3
Average Culex per trap/night:	62.3

Seasonality



Species collected and abundance:

Culex pipiens	872.0	100.0%

Genus Proportions:

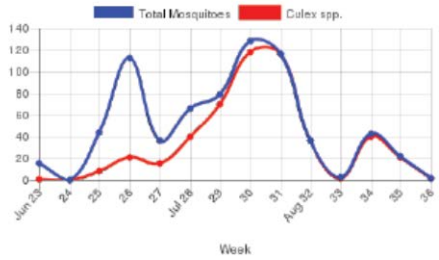
Genus	Number	Percent of Total
Aedes/Ochlerotatus	0.0	0.0%
Anopheles	0.0	0.0%
Culex	872.0	100.0%
Culiseta	0.0	0.0%
Other	0.0	0.0%

FC-031

Season: 05/01/2020 - 09/09/2020
Trap Type: CDC Light Trap
Location: Willow Springs
GPS: 40.50608996726513, -105.03941986709833

Total number of trap/nights set:	14.0
Total number of mosquitoes collected:	704.0
Average mosquitoes per trap/night:	50.3
Average Culex per trap/night:	35.1

Seasonality

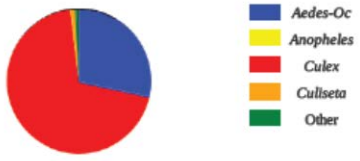


Species collected and abundance:

Aedes dorsalis	12.0	1.7%
Aedes increpitus	3.0	0.4%
Aedes melanimon	5.0	0.7%
Aedes vexans	180.0	25.6%
Coquillettidia perturbans	5.0	0.7%
Culex pipiens	19.0	2.7%
Culex tarsalis	472.0	67.0%
Culiseta inornata	8.0	1.1%

Genus Proportions:

Genus	Number	Percent of Total
Aedes/Ochlerotatus	200.0	28.4%
Anopheles	0.0	0.0%
Culex	491.0	69.7%
Culiseta	8.0	1.1%
Other	5.0	0.7%

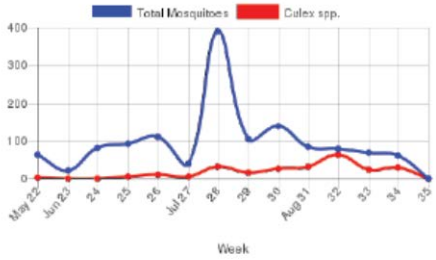


FC-034

Season: 05/01/2020 - 09/09/2020
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:	1,338.0
Average mosquitoes per trap/night:	89.2
Average Culex per trap/night:	16.9

Seasonality

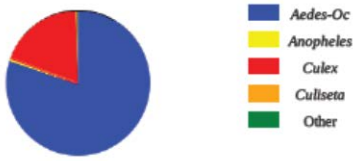


Species collected and abundance:

Aedes dorsalis	33.0	2.5%
Aedes increpitus	133.0	9.9%
Aedes melanimon	40.0	3.0%
Aedes trivittatus	2.0	0.1%
Aedes vexans	865.0	64.6%
Anopheles freeborni	6.0	0.4%
Coquillettidia perturbans	1.0	0.1%
Culex tarsalis	253.0	18.9%
Culiseta inornata	5.0	0.4%

Genus Proportions:

Genus	Number	Percent of Total
Aedes/Ochlerotatus	1,073.0	80.2%
Anopheles	6.0	0.4%
Culex	253.0	18.9%
Culiseta	5.0	0.4%
Other	1.0	0.1%

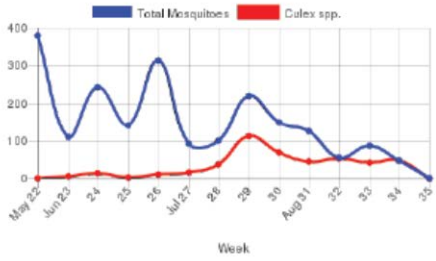


FC-036

Season: 05/01/2020 - 09/09/2020
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:	2,072.0
Average mosquitoes per trap/night:	138.1
Average Culex per trap/night:	30.6

Seasonality

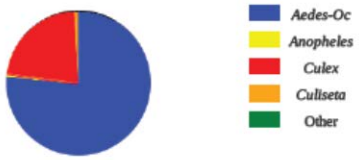


Species collected and abundance:

Aedes dorsalis	26.0	1.3%
Aedes increpitus	539.0	26.0%
Aedes melanimon	21.0	1.0%
Aedes spp.	1.0	0.0%
Aedes vexans	1,003.0	48.4%
Anopheles freeborni	6.0	0.3%
Culex pipiens	110.0	5.3%
Culex tarsalis	349.0	16.8%
Culiseta inornata	17.0	0.8%

Genus Proportions:

Genus	Number	Percent of Total
Aedes/Ochlerotatus	1,590.0	76.7%
Anopheles	6.0	0.3%
Culex	459.0	22.2%
Culiseta	17.0	0.8%
Other	0.0	0.0%

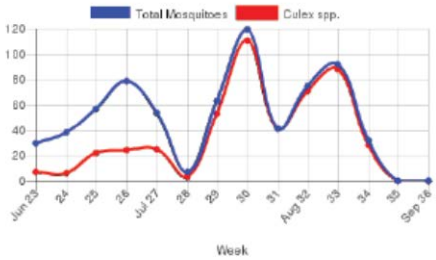


FC-037

Season: 05/01/2020 - 09/09/2020
Trap Type: CDC Light Trap
Location: Chelsea Ridge
GPS: 40.51667989969775, -105.09808011353017

Total number of trap/nights set:	14.0
Total number of mosquitoes collected:	687.0
Average mosquitoes per trap/night:	49.1
Average Culex per trap/night:	34.2

Seasonality

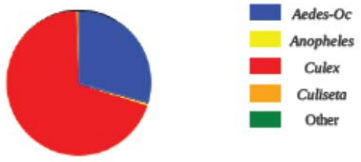


Species collected and abundance:

Aedes dorsalis	1.0	0.1%
Aedes increpitus	49.0	7.1%
Aedes melanimon	1.0	0.1%
Aedes spp.	2.0	0.3%
Aedes trivittatus	1.0	0.1%
Aedes vexans	148.0	21.5%
Anopheles freeborni	3.0	0.4%
Culex pipiens	68.0	9.9%
Culex tarsalis	411.0	59.8%
Culiseta inornata	3.0	0.4%

Genus Proportions:

Genus	Number	Percent of Total
Aedes/Ochlerotatus	202.0	29.4%
Anopheles	3.0	0.4%
Culex	479.0	69.7%
Culiseta	3.0	0.4%
Other	0.0	0.0%

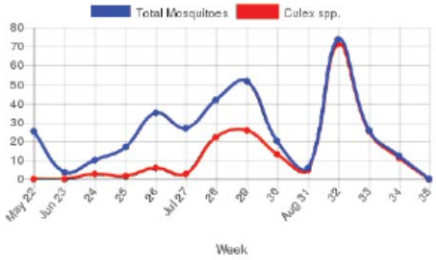


FC-038

Season: 05/01/2020 - 09/09/2020
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:	350.0
Average mosquitoes per trap/night:	23.3
Average Culex per trap/night:	12.5

Seasonality

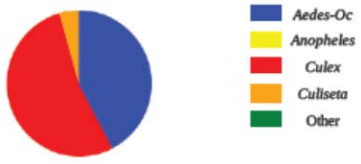


Species collected and abundance:

Aedes dorsalis	16.0	4.6%
Aedes increpitus	6.0	1.7%
Aedes melanimon	8.0	2.3%
Aedes vexans	118.0	33.7%
Culex pipiens	6.0	1.7%
Culex tarsalis	181.0	51.7%
Culiseta inornata	15.0	4.3%

Genus Proportions:

Genus	Number	Percent of Total
Aedes/Ochlerotatus	148.0	42.3%
Anopheles	0.0	0.0%
Culex	187.0	53.4%
Culiseta	15.0	4.3%
Other	0.0	0.0%

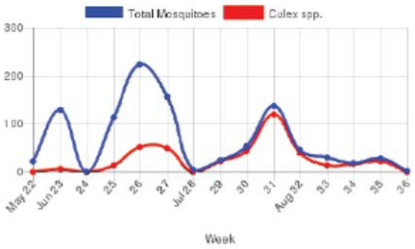


FC-039

Season: 05/01/2020 - 09/09/2020
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:	993.0
Average mosquitoes per trap/night:	66.2
Average Culex per trap/night:	26.9

Seasonality

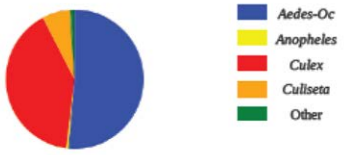


Species collected and abundance:

Aedes dorsalis	313.0	31.5%
Aedes increpitus	11.0	1.1%
Aedes melanimon	32.0	3.2%
Aedes nigromaculis	1.0	0.1%
Aedes spp.	6.0	0.6%
Aedes vexans	147.0	14.8%
Anopheles freeborni	5.0	0.5%
Coquillettidia perturbans	10.0	1.0%
Culex pipiens	11.0	1.1%
Culex tarsalis	392.0	39.5%
Culiseta inornata	65.0	6.5%

Genus Proportions:

Genus	Number	Percent of Total
Aedes/Ochlerotatus	510.0	51.4%
Anopheles	5.0	0.5%
Culex	403.0	40.6%
Culiseta	65.0	6.5%
Other	10.0	1.0%

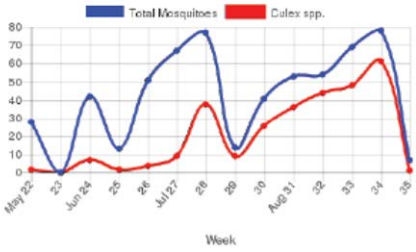


FC-040

Season: 05/01/2020 - 09/09/2020
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:	594.0
Average mosquitoes per trap/night:	39.6
Average Culex per trap/night:	19.1

Seasonality

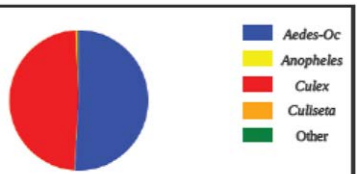


Species collected and abundance:

Aedes dorsalis	41.0	6.9%
Aedes increpitus	15.0	2.5%
Aedes melanimon	14.0	2.4%
Aedes spp.	2.0	0.3%
Aedes trivittatus	1.0	0.2%
Aedes vexans	229.0	38.6%
Anopheles freeborni	1.0	0.2%
Coquillettidia perturbans	1.0	0.2%
Culex pipiens	66.0	11.1%
Culex tarsalis	221.0	37.2%
Culiseta inornata	3.0	0.5%

Genus Proportions:

Genus	Number	Percent of Total
Aedes/Ochlerotatus	302.0	50.8%
Anopheles	1.0	0.2%
Culex	287.0	48.3%
Culiseta	3.0	0.5%
Other	1.0	0.2%

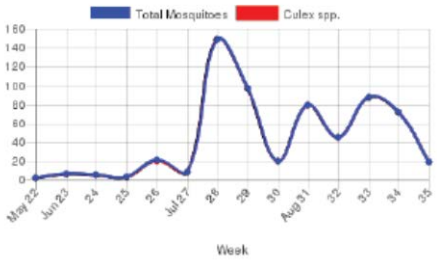


FC-040gr

Season: 05/01/2020 - 09/09/2020
Trap Type: Gravid Trap
Location: Redwood Gravid
GPS: 40.60309558721682, -105.06650783121586

Total number of trap/nights set:	14.0
Total number of mosquitoes collected:	618.0
Average mosquitoes per trap/night:	44.1
Average Culex per trap/night:	44.1

Seasonality



Species collected and abundance:

Aedes vexans	1.0	0.2%
Culex pipiens	617.0	99.8%

Genus Proportions:

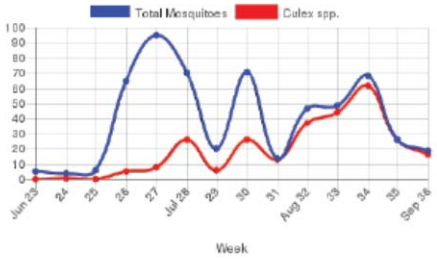
Genus	Number	Percent of Total
Aedes/Ochlerotatus	1.0	0.2%
Anopheles	0.0	0.0%
Culex	617.0	99.8%
Culiseta	0.0	0.0%
Other	0.0	0.0%

FC-041

Season: 05/01/2020 - 09/09/2020
Trap Type: CDC Light Trap
Location: Fishback
GPS: 40.58794002990494, -105.10486006736755

Total number of trap/nights set:	14.0
Total number of mosquitoes collected:	559.0
Average mosquitoes per trap/night:	39.9
Average Culex per trap/night:	19.3

Seasonality

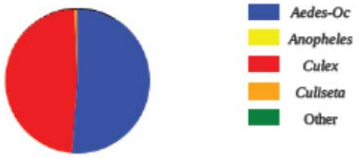


Species collected and abundance:

Aedes increpitus	9.0	1.6%
Aedes melanimon	6.0	1.1%
Aedes spp.	5.0	0.9%
Aedes trivittatus	2.0	0.4%
Aedes vexans	264.0	47.2%
Culex pipiens	101.0	18.1%
Culex tarsalis	169.0	30.2%
Culiseta inornata	3.0	0.5%

Genus Proportions:

Genus	Number	Percent of Total
Aedes/Ochlerotatus	286.0	51.2%
Anopheles	0.0	0.0%
Culex	270.0	48.3%
Culiseta	3.0	0.5%
Other	0.0	0.0%

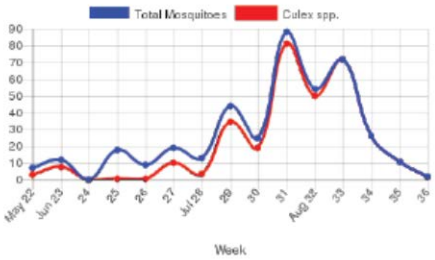


FC-046

Season: 05/01/2020 - 09/09/2020
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:	400.0
Average mosquitoes per trap/night:	26.7
Average Culex per trap/night:	21.5

Seasonality

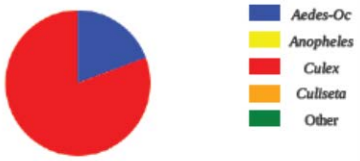


Species collected and abundance:

Aedes dorsalis	2.0	0.5%
Aedes increpitus	2.0	0.5%
Aedes vexans	73.0	18.3%
Culex pipiens	149.0	37.3%
Culex tarsalis	174.0	43.5%

Genus Proportions:

Genus	Number	Percent of Total
Aedes/Ochlerotatus	77.0	19.3%
Anopheles	0.0	0.0%
Culex	323.0	80.8%
Culiseta	0.0	0.0%
Other	0.0	0.0%

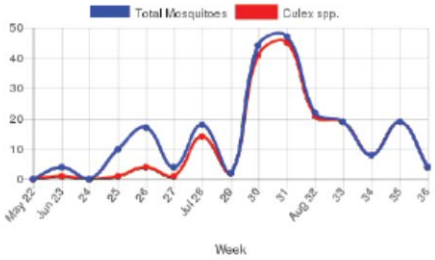


FC-047

Season: 05/01/2020 - 09/09/2020
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:	218.0
Average mosquitoes per trap/night:	14.5
Average Culex per trap/night:	12.0

Seasonality

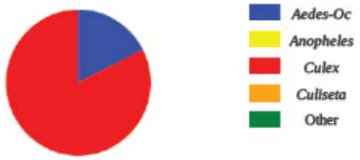


Species collected and abundance:

Aedes dorsalis	2.0	0.9%
Aedes vexans	36.0	16.5%
Culex pipiens	33.0	15.1%
Culex tarsalis	147.0	67.4%

Genus Proportions:

Genus	Number	Percent of Total
Aedes/Ochlerotatus	38.0	17.4%
Anopheles	0.0	0.0%
Culex	180.0	82.6%
Culiseta	0.0	0.0%
Other	0.0	0.0%

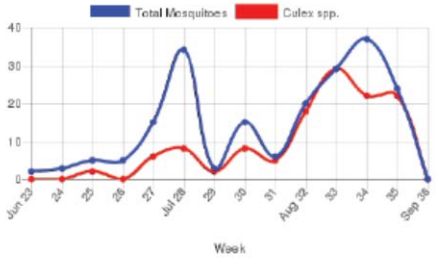


FC-049

Season: 05/01/2020 - 09/09/2020
Trap Type: CDC Light Trap
Location: Casa Grande and Downing
GPS: 40.573239949533054, -105.13949006795883

Total number of trap/nights set:	14.0
Total number of mosquitoes collected:	198.0
Average mosquitoes per trap/night:	14.1
Average Culex per trap/night:	8.7

Seasonality

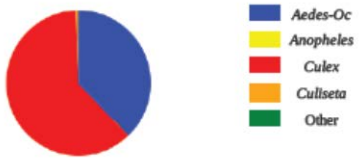


Species collected and abundance:

Aedes dorsalis	3.0	1.5%
Aedes increpitus	3.0	1.5%
Aedes melanimon	1.0	0.5%
Aedes vexans	68.0	34.3%
Culex pipiens	69.0	34.8%
Culex tarsalis	53.0	26.8%
Culiseta inornata	1.0	0.5%

Genus Proportions:

Genus	Number	Percent of Total
Aedes/Ochlerotatus	75.0	37.9%
Anopheles	0.0	0.0%
Culex	122.0	61.6%
Culiseta	1.0	0.5%
Other	0.0	0.0%

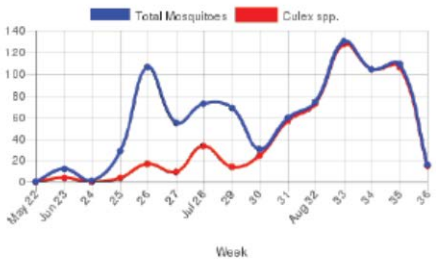


FC-050

Season: 05/01/2020 - 09/09/2020
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:	867.0
Average mosquitoes per trap/night:	57.8
Average Culex per trap/night:	39.1

Seasonality

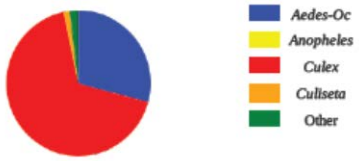


Species collected and abundance:

Aedes increpitus	34.0	3.9%
Aedes melanimon	2.0	0.2%
Aedes vexans	217.0	25.0%
Coquillettidia perturbans	16.0	1.8%
Culex pipiens	459.0	52.9%
Culex tarsalis	127.0	14.6%
Culiseta inornata	12.0	1.4%

Genus Proportions:

Genus	Number	Percent of Total
Aedes/Ochlerotatus	253.0	29.2%
Anopheles	0.0	0.0%
Culex	586.0	67.6%
Culiseta	12.0	1.4%
Other	16.0	1.8%

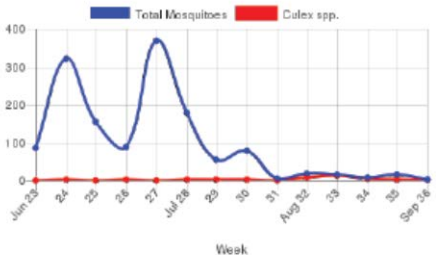


FC-052

Season: 05/01/2020 - 09/09/2020
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:	1,404.0
Average mosquitoes per trap/night:	100.3
Average Culex per trap/night:	3.4

Seasonality

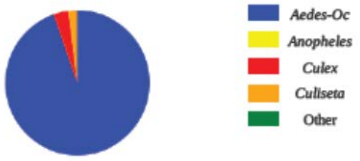


Species collected and abundance:

Aedes cinereus	121.0	8.6%
Aedes dorsalis	1.0	0.1%
Aedes fitchii	1.0	0.1%
Aedes increpitus	13.0	0.9%
Aedes melanimon	14.0	1.0%
Aedes spp.	30.0	2.1%
Aedes vexans	1,150.0	81.9%
Culex pipiens	16.0	1.1%
Culex tarsalis	31.0	2.2%
Culiseta incidens	5.0	0.4%
Culiseta inornata	22.0	1.6%

Genus Proportions:

Genus	Number	Percent of Total
Aedes/Ochlerotatus	1,330.0	94.7%
Anopheles	0.0	0.0%
Culex	47.0	3.3%
Culiseta	27.0	1.9%
Other	0.0	0.0%

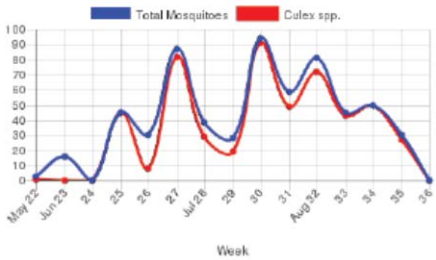


FC-053

Season: 05/01/2020 - 09/09/2020
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:	607.0
Average mosquitoes per trap/night:	40.5
Average Culex per trap/night:	34.4

Seasonality

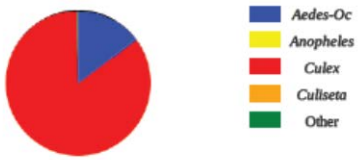


Species collected and abundance:

Aedes dorsalis	9.0	1.5%
Aedes increpitus	3.0	0.5%
Aedes melanimon	3.0	0.5%
Aedes vexans	74.0	12.2%
Coquillettidia perturbans	1.0	0.2%
Culex pipiens	2.0	0.3%
Culex tarsalis	514.0	84.7%
Culiseta inornata	1.0	0.2%

Genus Proportions:

Genus	Number	Percent of Total
Aedes/Ochlerotatus	89.0	14.7%
Anopheles	0.0	0.0%
Culex	516.0	85.0%
Culiseta	1.0	0.2%
Other	1.0	0.2%

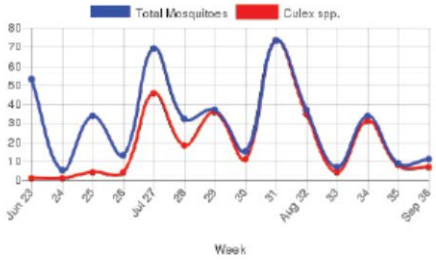


FC-054

Season: 05/01/2020 - 09/09/2020
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:	429.0
Average mosquitoes per trap/night:	30.6
Average Culex per trap/night:	19.9

Seasonality

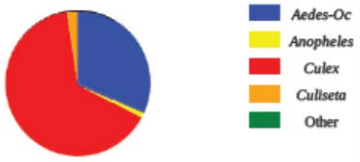


Species collected and abundance:

Aedes dorsalis	14.0	3.3%
Aedes increpitus	2.0	0.5%
Aedes melanimon	2.0	0.5%
Aedes spp.	1.0	0.2%
Aedes vexans	116.0	27.0%
Anopheles freeborni	5.0	1.2%
Culex pipiens	40.0	9.3%
Culex tarsalis	239.0	55.7%
Culiseta inornata	10.0	2.3%

Genus Proportions:

Genus	Number	Percent of Total
Aedes/Ochlerotatus	135.0	31.5%
Anopheles	5.0	1.2%
Culex	279.0	65.0%
Culiseta	10.0	2.3%
Other	0.0	0.0%

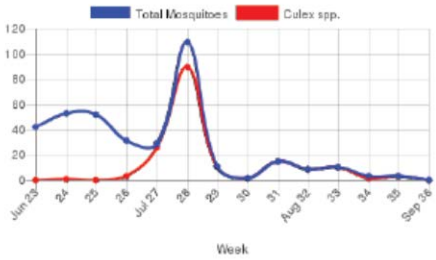


FC-057

Season: 05/01/2020 - 09/09/2020
Trap Type: CDC Light Trap
Location: Registry Ridge
GPS: 40.48438997678501, -105.10523993521929

Total number of trap/nights set:	14.0
Total number of mosquitoes collected:	369.0
Average mosquitoes per trap/night:	26.4
Average Culex per trap/night:	12.3

Seasonality

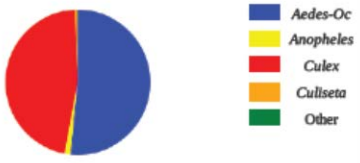


Species collected and abundance:

Aedes dorsalis	167.0	45.3%
Aedes melanimon	3.0	0.8%
Aedes spp.	1.0	0.3%
Aedes vexans	19.0	5.1%
Anopheles freeborni	5.0	1.4%
Culex tarsalis	172.0	46.6%
Culiseta inornata	2.0	0.5%

Genus Proportions:

Genus	Number	Percent of Total
Aedes/Ochlerotatus	190.0	51.5%
Anopheles	5.0	1.4%
Culex	172.0	46.6%
Culiseta	2.0	0.5%
Other	0.0	0.0%

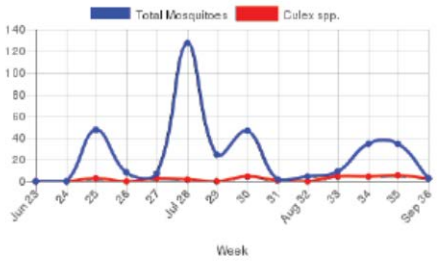


FC-058

Season: 05/01/2020 - 09/09/2020
Trap Type: CDC Light Trap
Location: Spring Creek Trail-- Michener Dr
GPS: 40.54883989155028, -105.12533001601697

Total number of trap/nights set:	14.0
Total number of mosquitoes collected:	349.0
Average mosquitoes per trap/night:	24.9
Average Culex per trap/night:	2.4

Seasonality



Species collected and abundance:

Aedes dorsalis	3.0	0.9%
Aedes increpitus	37.0	10.6%
Aedes melanimon	1.0	0.3%
Aedes vexans	263.0	75.4%
Culex pipiens	11.0	3.2%
Culex tarsalis	22.0	6.3%
Culiseta inornata	12.0	3.4%

Genus Proportions:

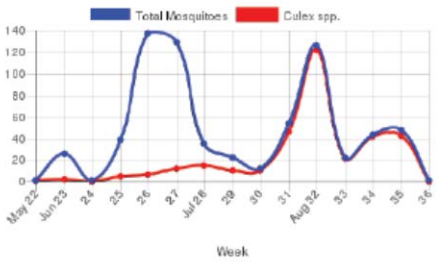
Genus	Number	Percent of Total
Aedes/Ochlerotatus	304.0	87.1%
Anopheles	0.0	0.0%
Culex	33.0	9.5%
Culiseta	12.0	3.4%
Other	0.0	0.0%

FC-059

Season: 05/01/2020 - 09/09/2020
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:	696.0
Average mosquitoes per trap/night:	46.4
Average Culex per trap/night:	22.3

Seasonality

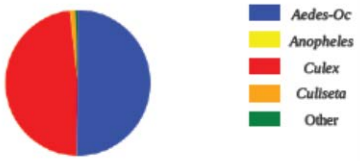


Species collected and abundance:

Aedes dorsalis	4.0	0.6%
Aedes increpitus	54.0	7.8%
Aedes melanimon	3.0	0.4%
Aedes spp.	1.0	0.1%
Aedes trivittatus	1.0	0.1%
Aedes vexans	286.0	41.1%
Anopheles freeborni	1.0	0.1%
Coquillettidia perturbans	3.0	0.4%
Culex pipiens	189.0	27.2%
Culex tarsalis	145.0	20.8%
Culiseta inornata	9.0	1.3%

Genus Proportions:

Genus	Number	Percent of Total
Aedes/Ochlerotatus	349.0	50.1%
Anopheles	1.0	0.1%
Culex	334.0	48.0%
Culiseta	9.0	1.3%
Other	3.0	0.4%

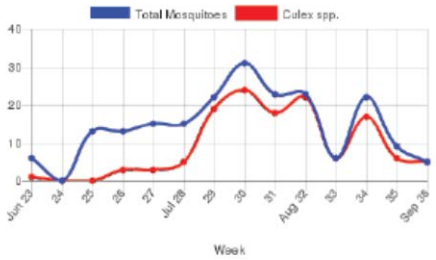


FC-060

Season: 05/01/2020 - 09/09/2020
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:	203.0
Average mosquitoes per trap/night:	14.5
Average Culex per trap/night:	9.2

Seasonality

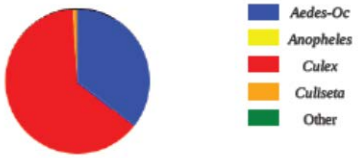


Species collected and abundance:

Aedes dorsalis	2.0	1.0%
Aedes increpitus	4.0	2.0%
Aedes melanimon	1.0	0.5%
Aedes spp.	1.0	0.5%
Aedes vexans	64.0	31.5%
Culex pipiens	97.0	47.8%
Culex tarsalis	32.0	15.8%
Culiseta inornata	2.0	1.0%

Genus Proportions:

Genus	Number	Percent of Total
Aedes/Ochlerotatus	72.0	35.5%
Anopheles	0.0	0.0%
Culex	129.0	63.5%
Culiseta	2.0	1.0%
Other	0.0	0.0%

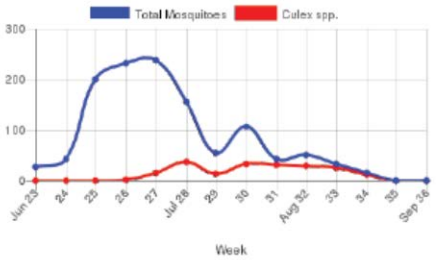


FC-061

Season: 05/01/2020 - 09/09/2020
Trap Type: CDC Light Trap
Location: Holley Plant Research Center
GPS: 40.56879993041706, -105.09164985269308

Total number of trap/nights set:	14.0
Total number of mosquitoes collected:	1,201.0
Average mosquitoes per trap/night:	85.8
Average Culex per trap/night:	14.5

Seasonality

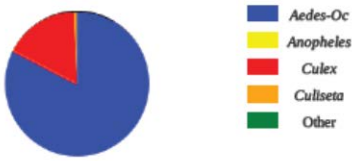


Species collected and abundance:

Aedes cinereus	4.0	0.3%
Aedes dorsalis	10.0	0.8%
Aedes increpitus	8.0	0.7%
Aedes melanimon	8.0	0.7%
Aedes spp.	18.0	1.5%
Aedes vexans	943.0	78.5%
Culex pipiens	61.0	5.1%
Culex tarsalis	142.0	11.8%
Culiseta inornata	7.0	0.6%

Genus Proportions:

Genus	Number	Percent of Total
Aedes/Ochlerotatus	991.0	82.5%
Anopheles	0.0	0.0%
Culex	203.0	16.9%
Culiseta	7.0	0.6%
Other	0.0	0.0%

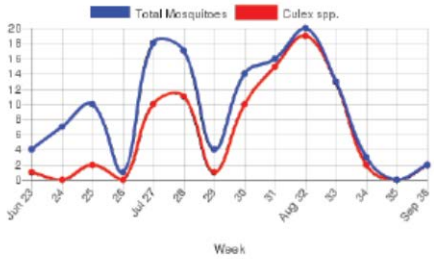


FC-062

Season: 05/01/2020 - 09/09/2020
Trap Type: CDC Light Trap
Location: Water's Edge at Blue Mesa
GPS: 40.542779889722866, -105.08740995079279

Total number of trap/nights set:	14.0
Total number of mosquitoes collected:	129.0
Average mosquitoes per trap/night:	9.2
Average Culex per trap/night:	6.1

Seasonality

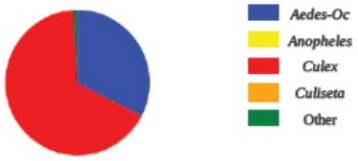


Species collected and abundance:

Aedes dorsalis	2.0	1.6%
Aedes increpitus	1.0	0.8%
Aedes vexans	39.0	30.2%
Coquillettidia perturbans	1.0	0.8%
Culex pipiens	30.0	23.3%
Culex tarsalis	56.0	43.4%

Genus Proportions:

Genus	Number	Percent of Total
Aedes/Ochlerotatus	42.0	32.6%
Anopheles	0.0	0.0%
Culex	86.0	66.7%
Culiseta	0.0	0.0%
Other	1.0	0.8%

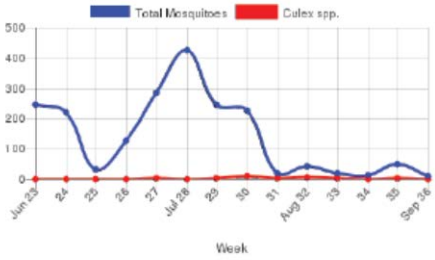


FC-063

Season: 05/01/2020 - 09/09/2020
Trap Type: CDC Light Trap
Location: Red Fox Meadows
GPS: 40.565679974786285, -105.10485000908375

Total number of trap/nights set:	14.0
Total number of mosquitoes collected:	1,967.0
Average mosquitoes per trap/night:	140.5
Average Culex per trap/night:	3.1

Seasonality

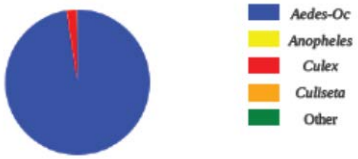


Species collected and abundance:

Aedes cinereus	3.0	0.2%
Aedes dorsalis	4.0	0.2%
Aedes hendersoni	1.0	0.1%
Aedes increpitus	26.0	1.3%
Aedes melanimon	5.0	0.3%
Aedes spp.	2.0	0.1%
Aedes trivittatus	2.0	0.1%
Aedes vexans	1,877.0	95.4%
Anopheles freeborni	1.0	0.1%
Culex pipiens	16.0	0.8%
Culex tarsalis	27.0	1.4%
Culiseta inornata	3.0	0.2%

Genus Proportions:

Genus	Number	Percent of Total
Aedes/Ochlerotatus	1,920.0	97.6%
Anopheles	1.0	0.1%
Culex	43.0	2.2%
Culiseta	3.0	0.2%
Other	0.0	0.0%



FC-063gr

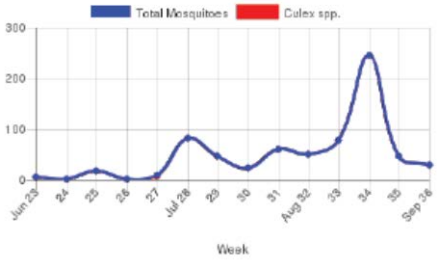
Season: 05/01/2020 - 09/09/2020
Trap Type: Gravid Trap
Location: Red Fox Meadows Gravid
GPS: 40.565679974786285, -105.10504983365536

Total number of trap/nights set:	14.0
Total number of mosquitoes collected:	699.0
Average mosquitoes per trap/night:	49.9
Average Culex per trap/night:	49.9

Species collected and abundance:

Aedes melanimon	1.0	0.1%
Culex pipiens	698.0	99.9%

Seasonality



Genus Proportions:

Genus	Number	Percent of Total
Aedes/Ochlerotatus	1.0	0.1%
Anopheles	0.0	0.0%
Culex	698.0	99.9%
Culiseta	0.0	0.0%
Other	0.0	0.0%

FC-064

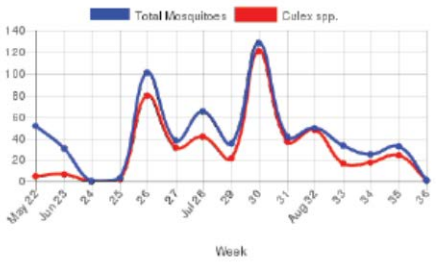
Season: 05/01/2020 - 09/09/2020
Trap Type: CDC Light Trap
Location: West Chase
GPS: 40.49867997125427, -105.0298001244664

Total number of trap/nights set:	15.0
Total number of mosquitoes collected:	633.0
Average mosquitoes per trap/night:	42.2
Average Culex per trap/night:	30.2

Species collected and abundance:

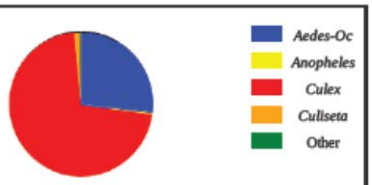
Aedes dorsalis	47.0	7.4%
Aedes increpitus	1.0	0.2%
Aedes melanimon	3.0	0.5%
Aedes vexans	118.0	18.6%
Anopheles freeborni	2.0	0.3%
Coquillettidia perturbans	1.0	0.2%
Culex pipiens	36.0	5.7%
Culex tarsalis	417.0	65.9%
Culiseta inornata	8.0	1.3%

Seasonality



Genus Proportions:

Genus	Number	Percent of Total
Aedes/Ochlerotatus	169.0	26.7%
Anopheles	2.0	0.3%
Culex	453.0	71.6%
Culiseta	8.0	1.3%
Other	1.0	0.2%

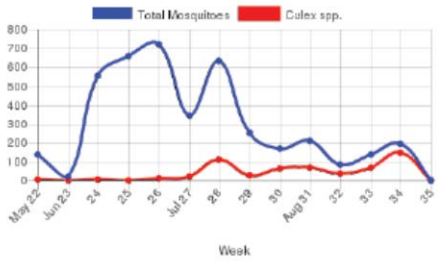


FC-066

Season: 05/01/2020 - 09/09/2020
Trap Type: CDC Light Trap
Location: Prospect Ponds
GPS: 40.558729973681025, -105.02318009734154

Total number of trap/nights set:	14.0
Total number of mosquitoes collected:	4,128.0
Average mosquitoes per trap/night:	294.9
Average Culex per trap/night:	41.0

Seasonality

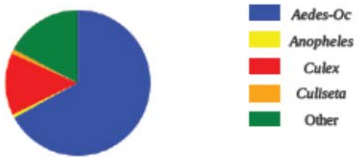


Species collected and abundance:

Aedes cinereus	5.0	0.1%
Aedes dorsalis	19.0	0.5%
Aedes increpitus	373.0	9.0%
Aedes melanimon	180.0	4.4%
Aedes trivittatus	1.0	0.0%
Aedes vexans	2,189.0	53.0%
Anopheles freeborni	31.0	0.8%
Coquillettidia perturbans	715.0	17.3%
Culex pipiens	231.0	5.6%
Culex tarsalis	343.0	8.3%
Culiseta inornata	41.0	1.0%

Genus Proportions:

Genus	Number	Percent of Total
Aedes/Ochlerotatus	2,767.0	67.0%
Anopheles	31.0	0.8%
Culex	574.0	13.9%
Culiseta	41.0	1.0%
Other	715.0	17.3%

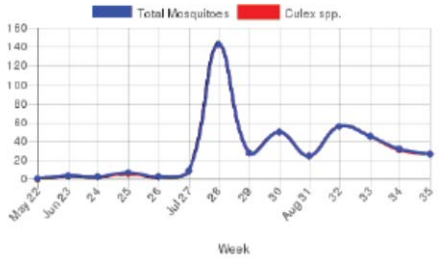


FC-066gr

Season: 05/01/2020 - 09/09/2020
Trap Type: Gravid Trap
Location: Prospect Ponds Gravid
GPS: 40.558729973681025, -105.02318009734154

Total number of trap/nights set:	14.0
Total number of mosquitoes collected:	426.0
Average mosquitoes per trap/night:	30.4
Average Culex per trap/night:	30.3

Seasonality



Species collected and abundance:

Anopheles freeborni	1.0	0.2%
Coquillettidia perturbans	1.0	0.2%
Culex pipiens	424.0	99.5%

Genus Proportions:

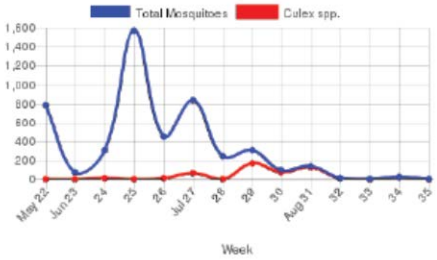
Genus	Number	Percent of Total
Aedes/Ochlerotatus	0.0	0.0%
Anopheles	1.0	0.2%
Culex	424.0	99.5%
Culiseta	0.0	0.0%
Other	1.0	0.2%

FC-067

Season: 05/01/2020 - 09/09/2020
Trap Type: CDC Light Trap
Location: Poudre River Trail
GPS: 40.57749479750878, -105.05568780004978

Total number of trap/nights set:	14.0
Total number of mosquitoes collected:	4,843.0
Average mosquitoes per trap/night:	345.9
Average Culex per trap/night:	37.0

Seasonality

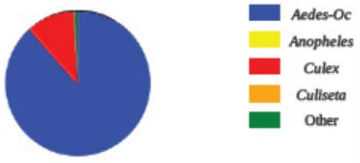


Species collected and abundance:

Aedes dorsalis	14.0	0.3%
Aedes increpitus	994.0	20.5%
Aedes melanimon	28.0	0.6%
Aedes trivittatus	19.0	0.4%
Aedes vexans	3,228.0	66.7%
Anopheles freeborni	1.0	0.0%
Coquillettidia perturbans	32.0	0.7%
Culex pipiens	88.0	1.8%
Culex tarsalis	430.0	8.9%
Culiseta inornata	9.0	0.2%

Genus Proportions:

Genus	Number	Percent of Total
Aedes/Ochlerotatus	4,283.0	88.4%
Anopheles	1.0	0.0%
Culex	518.0	10.7%
Culiseta	9.0	0.2%
Other	32.0	0.7%

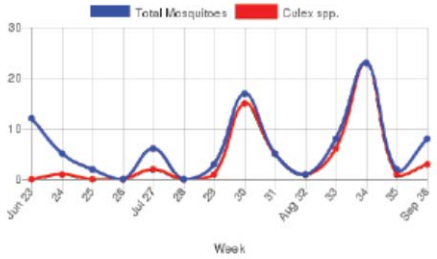


FC-068

Season: 05/01/2020 - 09/09/2020
Trap Type: CDC Light Trap
Location: 5029 Crest Dr
GPS: 40.516000124446485, -105.08547004312277

Total number of trap/nights set:	14.0
Total number of mosquitoes collected:	92.0
Average mosquitoes per trap/night:	6.6
Average Culex per trap/night:	4.1

Seasonality



Species collected and abundance:

Aedes increpitus	2.0	2.2%
Aedes vexans	21.0	22.8%
Anopheles freeborni	6.0	6.5%
Culex pipiens	26.0	28.3%
Culex tarsalis	32.0	34.8%
Culiseta inornata	5.0	5.4%

Genus Proportions:

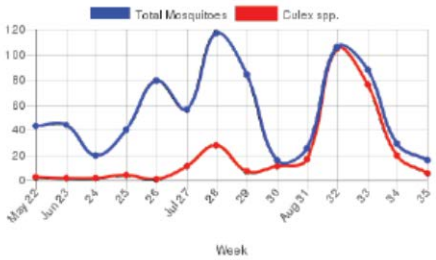
Genus	Number	Percent of Total
Aedes/Ochlerotatus	23.0	25.0%
Anopheles	6.0	6.5%
Culex	58.0	63.0%
Culiseta	5.0	5.4%
Other	0.0	0.0%

FC-069

Season: 05/01/2020 - 09/09/2020
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:	764.0
Average mosquitoes per trap/night:	50.9
Average Culex per trap/night:	19.5

Seasonality

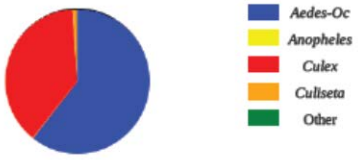


Species collected and abundance:

Aedes dorsalis	5.0	0.7%
Aedes increpitus	150.0	19.6%
Aedes melanimon	8.0	1.0%
Aedes vexans	300.0	39.3%
Anopheles freeborni	1.0	0.1%
Culex pipiens	19.0	2.5%
Culex tarsalis	273.0	35.7%
Culiseta inornata	8.0	1.0%

Genus Proportions:

Genus	Number	Percent of Total
Aedes/Ochlerotatus	463.0	60.6%
Anopheles	1.0	0.1%
Culex	292.0	38.2%
Culiseta	8.0	1.0%
Other	0.0	0.0%

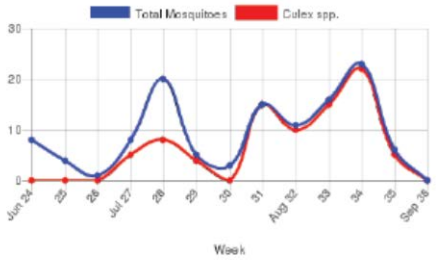


FC-071

Season: 05/01/2020 - 09/09/2020
Trap Type: CDC Light Trap
Location: Silvergate Rd
GPS: 40.52733008634481, -105.10821014642715

Total number of trap/nights set:	13.0
Total number of mosquitoes collected:	120.0
Average mosquitoes per trap/night:	9.2
Average Culex per trap/night:	6.5

Seasonality



Species collected and abundance:

Aedes cinereus	1.0	0.8%
Aedes dorsalis	2.0	1.7%
Aedes increpitus	6.0	5.0%
Aedes melanimon	1.0	0.8%
Aedes vexans	22.0	18.3%
Culex pipiens	42.0	35.0%
Culex tarsalis	42.0	35.0%
Culiseta inornata	4.0	3.3%

Genus Proportions:

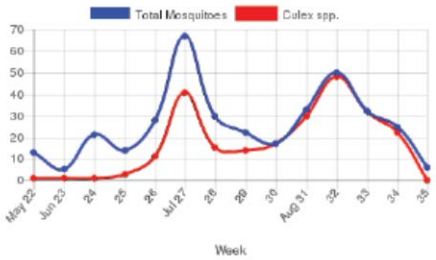
Genus	Number	Percent of Total
Aedes/Ochlerotatus	32.0	26.7%
Anopheles	0.0	0.0%
Culex	84.0	70.0%
Culiseta	4.0	3.3%
Other	0.0	0.0%

FC-072

Season: 05/01/2020 - 09/09/2020
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:	363.0
Average mosquitoes per trap/night:	25.9
Average Culex per trap/night:	16.9

Seasonality

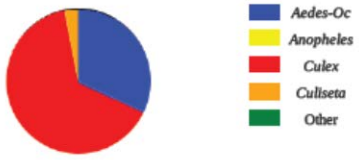


Species collected and abundance:

Aedes dorsalis	1.0	0.3%
Aedes increpitus	7.0	1.9%
Aedes melanimon	3.0	0.8%
Aedes trivittatus	1.0	0.3%
Aedes vexans	104.0	28.7%
Culex pipiens	72.0	19.8%
Culex tarsalis	164.0	45.2%
Culiseta inornata	11.0	3.0%

Genus Proportions:

Genus	Number	Percent of Total
Aedes/Ochlerotatus	116.0	32.0%
Anopheles	0.0	0.0%
Culex	236.0	65.0%
Culiseta	11.0	3.0%
Other	0.0	0.0%

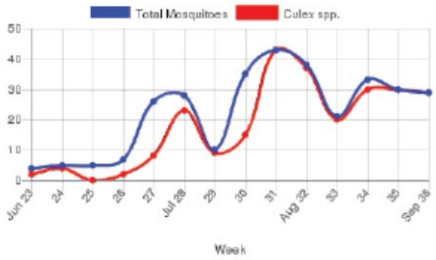


FC-073

Season: 05/01/2020 - 09/09/2020
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:	314.0
Average mosquitoes per trap/night:	22.4
Average Culex per trap/night:	18.0

Seasonality

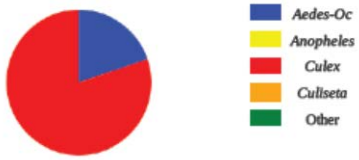


Species collected and abundance:

Aedes dorsalis	1.0	0.3%
Aedes increpitus	2.0	0.6%
Aedes melanimon	1.0	0.3%
Aedes vexans	58.0	18.5%
Culex pipiens	163.0	51.9%
Culex tarsalis	89.0	28.3%

Genus Proportions:

Genus	Number	Percent of Total
Aedes/Ochlerotatus	62.0	19.7%
Anopheles	0.0	0.0%
Culex	252.0	80.3%
Culiseta	0.0	0.0%
Other	0.0	0.0%

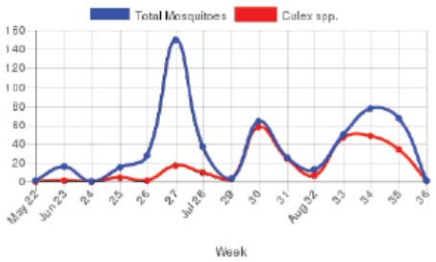


FC-074

Season: 05/01/2020 - 09/09/2020
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:	547.0
Average mosquitoes per trap/night:	36.5
Average Culex per trap/night:	17.0

Seasonality

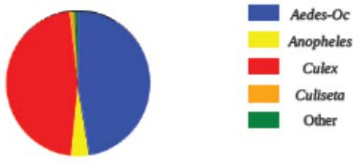


Species collected and abundance:

Aedes dorsalis	18.0	3.3%
Aedes increpitus	5.0	0.9%
Aedes melanimon	19.0	3.5%
Aedes nigromaculis	6.0	1.1%
Aedes vexans	211.0	38.6%
Anopheles freeborni	23.0	4.2%
Coquillettidia perturbans	4.0	0.7%
Culex pipiens	59.0	10.8%
Culex tarsalis	196.0	35.8%
Culiseta inornata	6.0	1.1%

Genus Proportions:

Genus	Number	Percent of Total
Aedes/Ochlerotatus	259.0	47.3%
Anopheles	23.0	4.2%
Culex	255.0	46.6%
Culiseta	6.0	1.1%
Other	4.0	0.7%

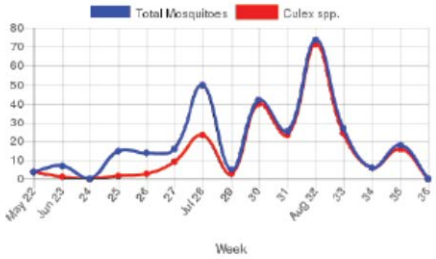


FC-075

Season: 05/01/2020 - 09/09/2020
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:	303.0
Average mosquitoes per trap/night:	20.2
Average Culex per trap/night:	15.0

Seasonality



Species collected and abundance:

Aedes dorsalis	6.0	2.0%
Aedes increpitus	4.0	1.3%
Aedes melanimon	1.0	0.3%
Aedes vexans	65.0	21.5%
Culex pipiens	74.0	24.4%
Culex tarsalis	151.0	49.8%
Culiseta inornata	2.0	0.7%

Genus Proportions:

Genus	Number	Percent of Total
Aedes/Ochlerotatus	76.0	25.1%
Anopheles	0.0	0.0%
Culex	225.0	74.3%
Culiseta	2.0	0.7%
Other	0.0	0.0%

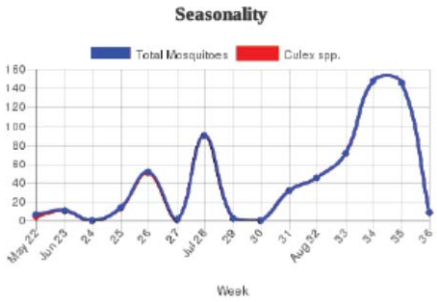
FC-075gr

Season: 05/01/2020 - 09/09/2020
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:	626.0
Average mosquitoes per trap/night:	41.7
Average Culex per trap/night:	41.5

Species collected and abundance:

Culex pipiens	623.0	99.5%
Culiseta inornata	3.0	0.5%



Genus Proportions:

Genus	Number	Percent of Total
Aedes/Ochlerotatus	0.0	0.0%
Anopheles	0.0	0.0%
Culex	623.0	99.5%
Culiseta	3.0	0.5%
Other	0.0	0.0%

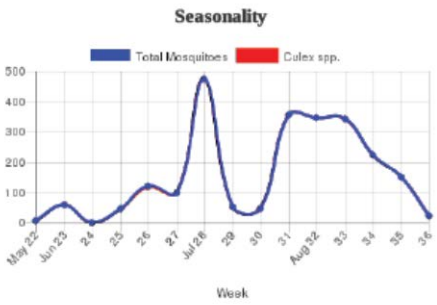
FC-088gr

Season: 05/01/2020 - 09/09/2020
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:	2,360.0
Average mosquitoes per trap/night:	157.3
Average Culex per trap/night:	157.1

Species collected and abundance:

Culex pipiens	2,356.0	99.8%
Culiseta inornata	4.0	0.2%



Genus Proportions:

Genus	Number	Percent of Total
Aedes/Ochlerotatus	0.0	0.0%
Anopheles	0.0	0.0%
Culex	2,356.0	99.8%
Culiseta	4.0	0.2%
Other	0.0	0.0%

FC-089gr

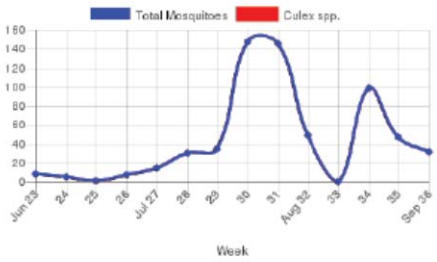
Season: 05/01/2020 - 09/09/2020
Trap Type: Gravid Trap
Location: Kunz Ct. and Brook Dr. Gravid
GPS: 40.53631011931944, -105.10056015104055

Total number of trap/nights set:	14.0
Total number of mosquitoes collected:	619.0
Average mosquitoes per trap/night:	44.2
Average Culex per trap/night:	44.2

Species collected and abundance:

Culex pipiens	619.0	100.0%

Seasonality



Genus Proportions:

Genus	Number	Percent of Total
Aedes/Ochlerotatus	0.0	0.0%
Anopheles	0.0	0.0%
Culex	619.0	100.0%
Culiseta	0.0	0.0%
Other	0.0	0.0%

FC-090gr

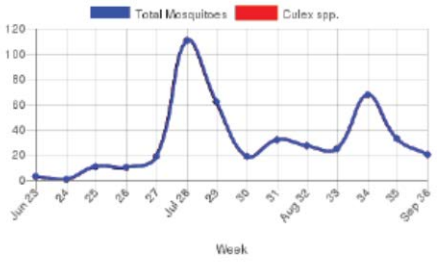
Season: 05/01/2020 - 09/09/2020
Trap Type: Gravid Trap
Location: Mountain Grandview Cemetery Gravid
GPS: 40.58195995773713, -105.111360065639

Total number of trap/nights set:	14.0
Total number of mosquitoes collected:	441.0
Average mosquitoes per trap/night:	31.5
Average Culex per trap/night:	31.5

Species collected and abundance:

Culex pipiens	441.0	100.0%

Seasonality



Genus Proportions:

Genus	Number	Percent of Total
Aedes/Ochlerotatus	0.0	0.0%
Anopheles	0.0	0.0%
Culex	441.0	100.0%
Culiseta	0.0	0.0%
Other	0.0	0.0%

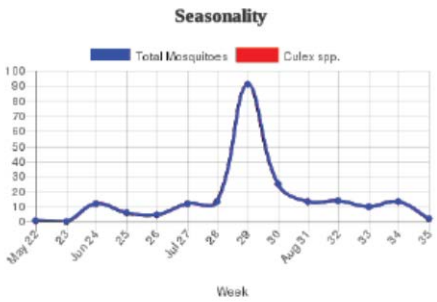
FC-091gr

Season: 05/01/2020 - 09/09/2020
Trap Type: Gravid Trap
Location: PVH Gravid
GPS: 40.570520046200166, -105.05456998944281

Total number of trap/nights set:	14.0
Total number of mosquitoes collected:	217.0
Average mosquitoes per trap/night:	15.5
Average Culex per trap/night:	15.5

Species collected and abundance:

Culex pipiens	215.0	99.1%
Culex tarsalis	2.0	0.9%



Genus Proportions:

Genus	Number	Percent of Total
Aedes/Ochlerotatus	0.0	0.0%
Anopheles	0.0	0.0%
Culex	217.0	100.0%
Culiseta	0.0	0.0%
Other	0.0	0.0%

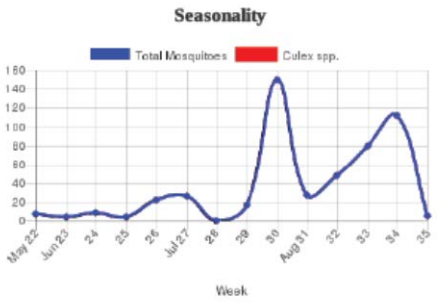
FC-092gr

Season: 05/01/2020 - 09/09/2020
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:	516.0
Average mosquitoes per trap/night:	36.9
Average Culex per trap/night:	36.9

Species collected and abundance:

Culex pipiens	516.0	100.0%



Genus Proportions:

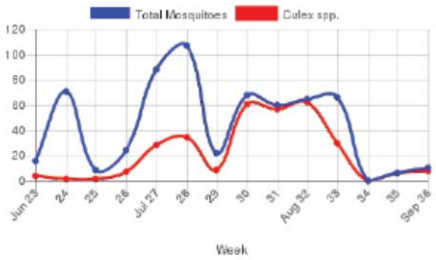
Genus	Number	Percent of Total
Aedes/Ochlerotatus	0.0	0.0%
Anopheles	0.0	0.0%
Culex	516.0	100.0%
Culiseta	0.0	0.0%
Other	0.0	0.0%

FC-093

Season: 05/01/2020 - 09/09/2020
Trap Type: CDC Light Trap
Location: Lopez Elementary
GPS: 40.53186000594886, -105.0882501527667

Total number of trap/nights set:	14.0
Total number of mosquitoes collected:	612.0
Average mosquitoes per trap/night:	43.7
Average Culex per trap/night:	22.1

Seasonality

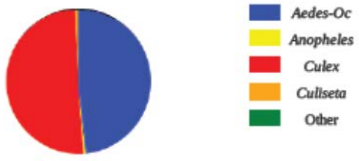


Species collected and abundance:

Aedes dorsalis	5.0	0.8%
Aedes increpitus	11.0	1.8%
Aedes melanimon	6.0	1.0%
Aedes vexans	273.0	44.6%
Anopheles freeborni	3.0	0.5%
Culex pipiens	82.0	13.4%
Culex tarsalis	228.0	37.3%
Culiseta inornata	4.0	0.7%

Genus Proportions:

Genus	Number	Percent of Total
Aedes/Ochlerotatus	295.0	48.2%
Anopheles	3.0	0.5%
Culex	310.0	50.7%
Culiseta	4.0	0.7%
Other	0.0	0.0%



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

2020 WNV Positive Pools

Start Date: 05/01/2020 **End Date:** 09/09/2020

Berthoud

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

Total Positive: 2

2020 WNV Positive Pools

Start Date: 05/01/2020 **End Date:** 09/09/2020

Loveland

Trap Location	Total Positive Pools
9th and DesMoines	0
Big Thompson	0
Boyd Lake	1
Cattail Pond	2
Cr 20 and 9	0
Horseshoe Pennninsula	0

Total Positive: 3

2020 WNV Positive Pools

Start Date: 05/01/2020 **End Date:** 09/09/2020

Fort Collins

Trap Location	Total Positive Pools
118 S Grant	0
3001 San Luis	4
422 Lake Dr	0
5029 Crest Dr	0
603 Gilgalad Way	0
737 Parliament	1
808 Ponderosa	0
Ben's Park	0
Ben's Park Gravid	2
Big Horn	2
Boltz	0
Casa Grande and Downing	1
Chelsea Ridge	1
Country Club	0
Edora Park	0
Egret and Rookery	2
English Ranch Park Gravid	6
FC Visitors Center	0
Fishback	0
Fossil Creek South	1
Golden Current	0
Golden Meadows Ditch	0
Hemlock	0
Holley Plant Research Center	0
Keeneland And Twin Oak	0
Kunz Ct. and Brook Dr. Gravid	2
Linden Lake Rd	0

Trap Location	Total Positive Pools
Lochside Lane	0
Lopez Elementary	0
Magic Carpet	1
Mountain Grandview Cemetery Gravid	0
N. Linden	0
Poudre River Trail	0
Prospect Ponds	0
Prospect Ponds Gravid	2
PVH Gravid	0
Red Fox Meadows	0
Red Fox Meadows Gravid	1
Redwood	0
Redwood Gravid	1
Registry Ridge	0
Rock Creek	0
Sage Creek North	0
Sage Creek North Gravid	4
Silvergate Rd	0
Spring Creek Trail-- Michener Dr	0
Springwood and Lochwood	1
Stuart and Dorset	0
Udall Natural Gravid	0
Water's Edge at Blue Mesa	0
West Chase	0
Westshore Ct	1
Willow Springs	0

Total Positive: 33

Appendix 3: Ground Adult Mosquito Control Application Data

Ground Adulticide Applications

Start Date: 05/01/2020 **End Date:** 09/09/2020

Larimer County

Month	Date	Municipality	Chemical	Mix Ratio	Trip Miles	Spray Miles	Spray Acres	Gallons Sprayed
LHOA Greenstone HOA Spray Zone Applications								
June 2020	06/02/2020	N/A	Aqua Kontrol 30-30 (73748-11)	1:5	4.1	2.9	106.2	0.8
	06/16/2020	N/A	Aqua Kontrol 30-30 (73748-11)	1:5	4.2	3.0	108.7	0.8
	06/23/2020	N/A	Aqua Kontrol 30-30 (73748-11)	1:5	3.7	2.7	97.1	0.8
	06/30/2020	N/A	Aqua Kontrol 30-30 (73748-11)	1:5	0.0	2.7	97.1	0.8
July 2020	07/28/2020	N/A	Aqua Kontrol 30-30 (73748-11)	1:5	4.4	3.3	118.2	0.9
							Total Aqua Kontrol 30-30 Applied:	*4.1*
				LHOA Greenstone HOA Spray Zone Totals:	***16.5***	***14.5***	***527.2***	***4.1***
LHOA Ridgewood Hills Spray Zone Applications								
July 2020	07/08/2020	N/A	Aqua Kontrol 30-30 (73748-11)	1:5	9.7	6.6	240.3	1.9
August 2020	08/12/2020	N/A	Aqua Kontrol 30-30 (73748-11)	1:5	9.8	6.5	237.1	1.8
							Total Aqua Kontrol 30-30 Applied:	*3.7*
				LHOA Ridgewood Hills Spray Zone Totals:	***19.5***	***13.1***	***477.4***	***3.7***
LHOA Willow Springs Spray Zone Applications								
June 2020	06/25/2020	N/A	Aqua Kontrol 30-30 (73748-11)	1:5	3.9	2.9	105.4	0.8
July 2020	07/08/2020	N/A	Aqua Kontrol 30-30 (73748-11)	1:5	5.3	3.3	119.3	0.9
	07/22/2020	N/A	Aqua Kontrol 30-30 (73748-11)	1:5	5.9	3.8	137.4	1.1
August 2020	08/05/2020	N/A	Aqua Kontrol 30-30 (73748-11)	1:5	6.1	3.7	135.3	1.0
							Total Aqua Kontrol 30-30 Applied:	*3.8*
				LHOA Willow Springs Spray Zone Totals:	***21.2***	***13.7***	***497.4***	***3.8***
				Grand Totals:	***57.2***	***41.3***	***1,502.0***	***11.6***

Month	Date	Municipality	Chemical	Mix Ratio	Trip Miles	Spray Miles	Spray Acres	Gallons Sprayed
LHOA Lindenwood HOA Spray Zone Applications								
July 2020	07/15/2020	N/A	Aqua Kontrol 30-30 (73748-11)	1:5	3.1	2.4	86.5	0.7
August 2020	08/12/2020	N/A	Aqua Kontrol 30-30 (73748-11)	1:5	3.1	2.4	86.5	0.7
	08/19/2020	N/A	Aqua Kontrol 30-30 (73748-11)	1:5	3.1	2.5	89.5	0.7
				Total Aqua Kontrol 30-30 Applied:				*2.0*
			LHOA Lindenwood HOA Spray Zone Totals:		***9.3***	***7.2***	***262.5***	***2.0***
			Grand Totals:		***9.3***	***7.2***	***262.5***	***2.0***