

BOULDER COUNTY MOSQUITO CONTROL DISTRICT

MOSQUITO CONTROL PROGRAM

2024 ANNUAL REPORT

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Prepared by:
Vector Disease Control International
7230 W 118th Place, Unit C
Broomfield, CO 80020
303-428-5908
www.vdci.net/Colorado



**Boulder County Mosquito Control District
Integrated Mosquito Management Program
2024 Annual Report**

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Program Objective

The primary objective of VDCI's Integrated Mosquito Management Program is to monitor and reduce mosquito populations using environmentally sound control techniques to protect residents from the threat of mosquito-borne diseases and suppress local populations of nuisance mosquitoes. VDCI's programs primarily focus on the detection and elimination of mosquito larvae in aquatic habitats by trained field technicians. VDCI also maintains a network of CDC light traps to monitor adult mosquito populations and disease risk, as well as to determine if adult mosquito control is necessary.

Open communication is maintained by VDCI between clients, residents, HOAs, Property Management Companies, County and State Departments of Health & Environment, and surrounding municipalities to ensure that the highest level of mosquito control and epizootic response is achieved. This cooperation is key to the success of mosquito management programs and provides significant benefit to public health throughout the region.



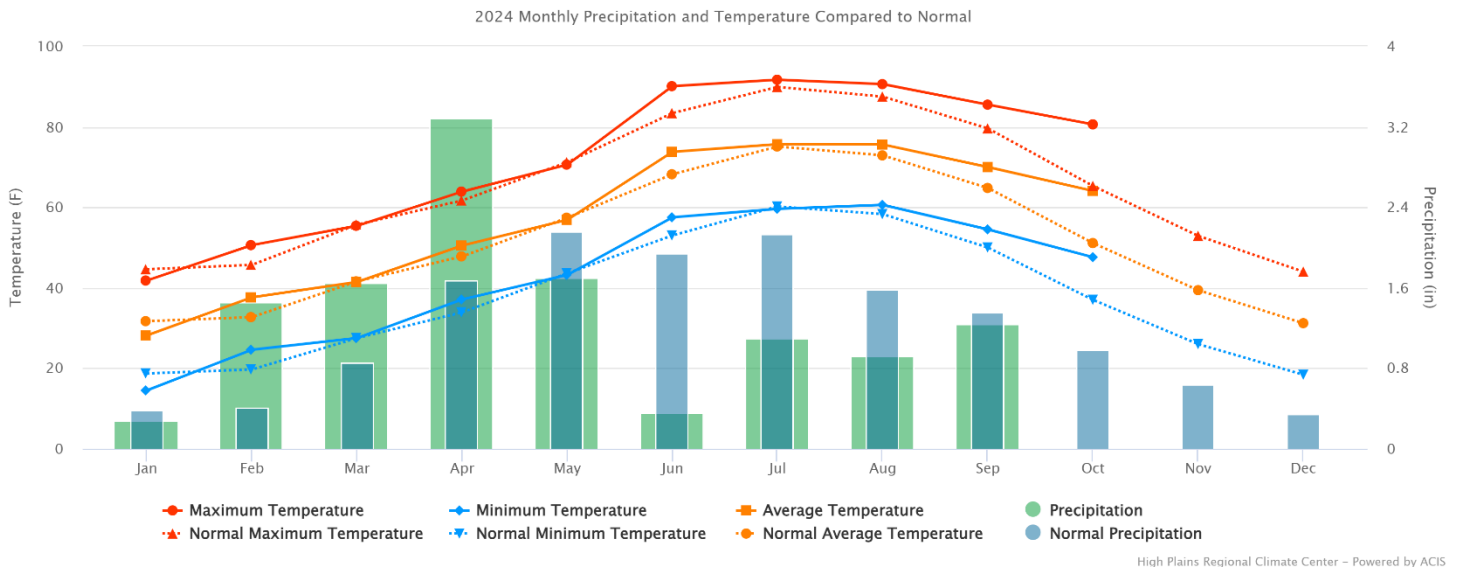
VDCI's Commitment

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. Our employees are committed to excellence in vector control and public health and strive to improve the quality of life in communities through public education and the control of mosquitoes and the diseases they can transmit. VDCI currently has seven year-round offices in Colorado with programs across the state providing services for towns, cities, counties, homeowners associations, and encephalitis surveillance monitoring programs for health departments.

Vector Disease Control International 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 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. VDCI maintains its commitment to provide top quality service to minimize the threat of West Nile Virus to citizens and to reduce mosquito annoyance in all the areas we serve.

2024 Season Perspective and Climate Data

Each Colorado summer presents a unique set of temperature, precipitation, irrigation, and human interactions that create new and different challenges in mosquito control and mosquito-borne disease proliferation. The typical mosquito season is from late April through September. Current and historical climate data from the National Oceanic Atmospheric Administration’s (NOAA) High Plains Regional Climate Center (HPRCC) weather stations was used to monitor regional temperature and precipitation patterns throughout the season.



2024 Precipitation Data

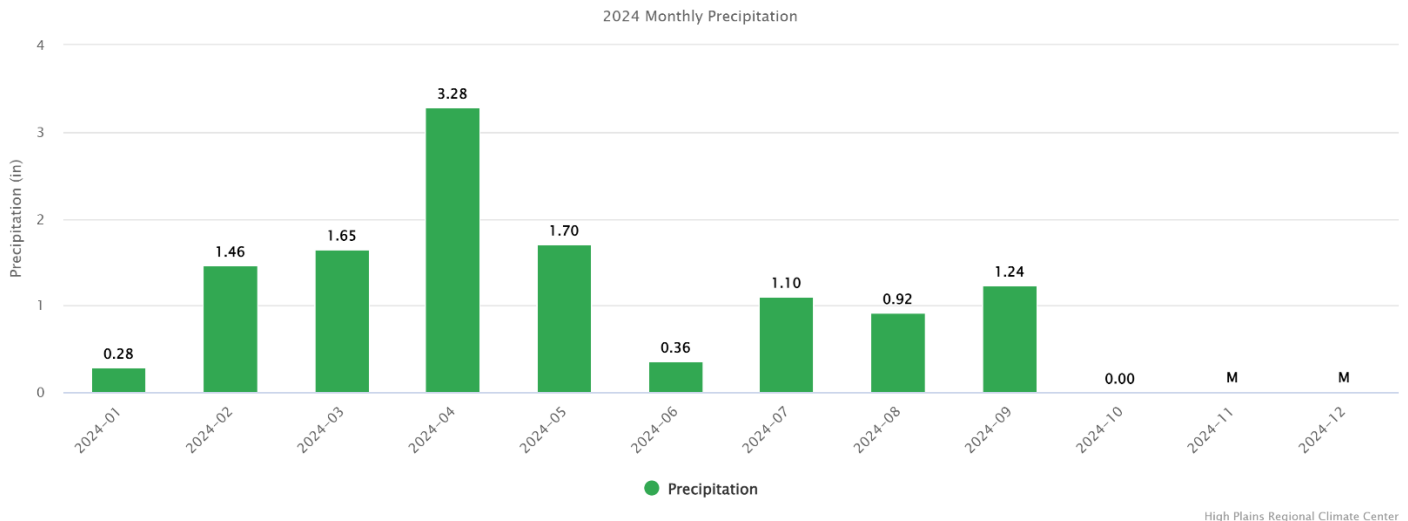
May 2024 was the 93rd wettest on record for the Denver-Boulder area since 1872, with NWS recording 1.7 inches of precipitation. May 2023 received 5.53 total inches, the 4th wettest on record.

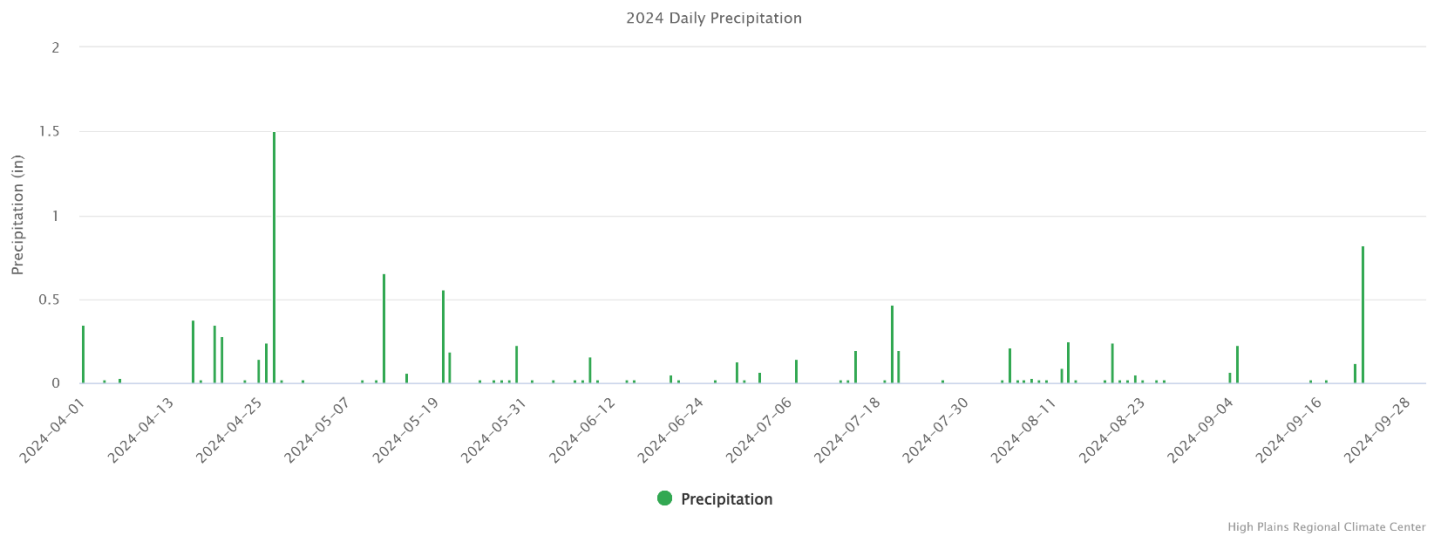
The National Weather Service recorded 0.36 inches of precipitation for June 2024, the 134th wettest (or 20th driest) on record. June 2023 received 6.1 total inches of rain, the wettest on record.

NWS recorded 1.1 inches of precipitation for July 2024. In comparison, 2.1 total inches were recorded in July 2023.

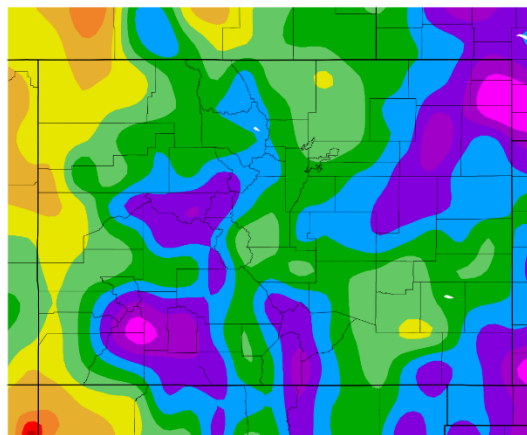
0.92 inches of precipitation were recorded by NWS in August 2024. August 2023 received 0.93 total inches of rain.

In September 2024, 1.24 inches of precipitation were recorded. September 2023 saw 0.67 inches.

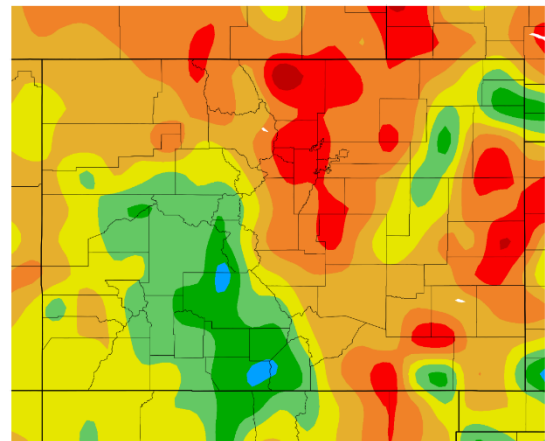




Precipitation (in)
4/1/2024 – 10/14/2024



Departure from Normal Precipitation (in)
4/1/2024 – 10/14/2024



Generated 10/15/2024 at HPRCC using provisional data.

NOAA Regional Climate Centers

Generated 10/15/2024 at HPRCC using provisional data.

NOAA Regional Climate Centers

2024 Temperature Data

The average temperature for May 2024 was 56.9°F, the 83rd warmest May on record. May 2023 was the 35th warmest.

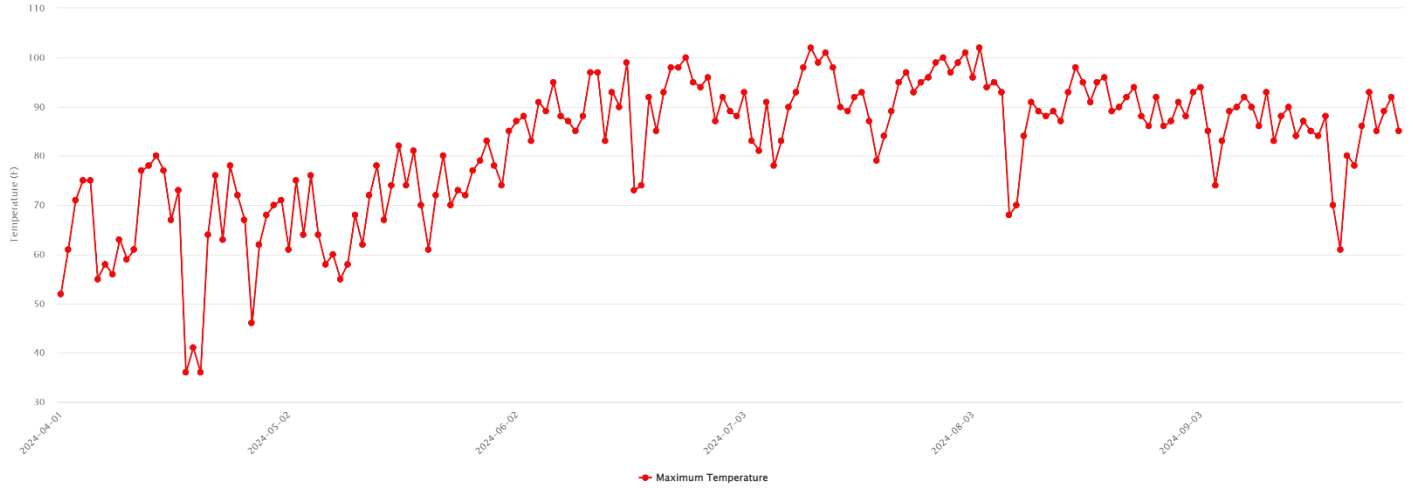
The average temperature for June 2024 was 73.8°F, the 2nd warmest June on record. In comparison, June 2023 was the 127th warmest.

The average temperature in July 2024 was 75.7°F, the 30th warmest. July 2023 was not 64th warmest.

In August 2024, the average temperature was 75.6°F, the 5th warmest August for the region. August 2023 was the 19th warmest on record.

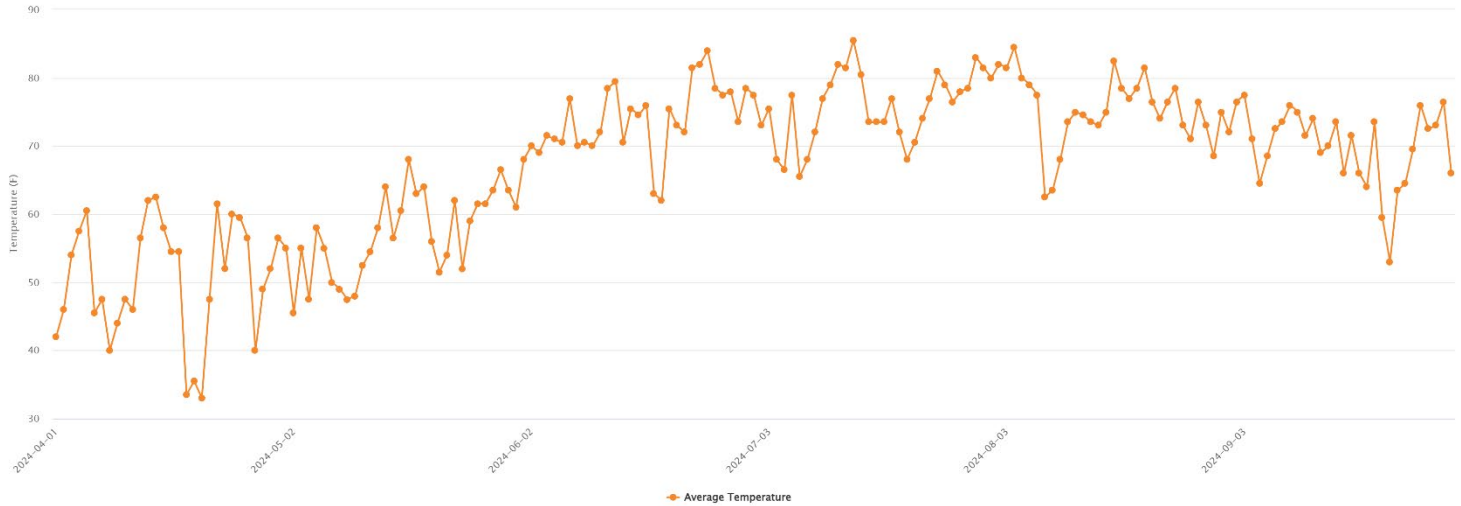
September 2024 was the warmest on record, with an average temperature of 70°F. September 2023 was tied for the 8th warmest.

Maximum Temperature
April 1, 2024 to September 30, 2024



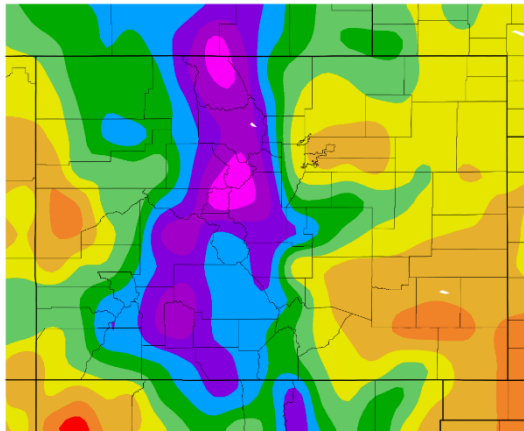
High Plains Regional Climate Center

Average Temperature
April 1, 2024 to September 30, 2024



High Plains Regional Climate Center

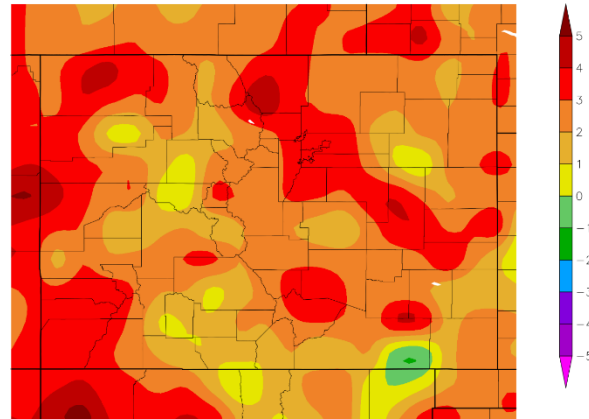
Temperature (F)
6/17/2024 – 10/14/2024



Generated 10/15/2024 at HPRCC using provisional data.

NOAA Regional Climate Centers

Departure from Normal Temperature (F)
6/17/2024 – 10/14/2024



Generated 10/15/2024 at HPRCC using provisional data.

NOAA Regional Climate Centers

<https://hprcc.unl.edu/onlinedataservices.php>
<https://www.noaa.gov/weather>
<https://www.weather.gov/>





VDCI Adult Mosquito Surveillance and Laboratory



Information about mosquito abundance and species diversity is essential to any IMM program. Vector Disease Control International's most used adult mosquito surveillance tool 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. Traps are set overnight at carefully selected sites with abundant harborage. They are collected the following morning and returned to VDCI's laboratory, where the contents of the trap nets are counted and speciated by trained technicians.

Additionally, the VDCI Surveillance Laboratory conducts an intensive larval identification program with larval mosquito samples collected by field technicians. 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 types 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.

In 2024, Vector Disease Control International monitored a statewide network of hundreds of weekly trap sites, collecting 499,369 adult mosquitoes that were counted and identified by VDCI surveillance laboratories. An approximate 77.42% decrease compared to 2,212,268 mosquitoes collected in 2023. 764,561 mosquitoes were collected in 2022. While individual traps provide current seasonal information, trap data can be interpreted in the context of historical records for the same trap site if such data is available. 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.



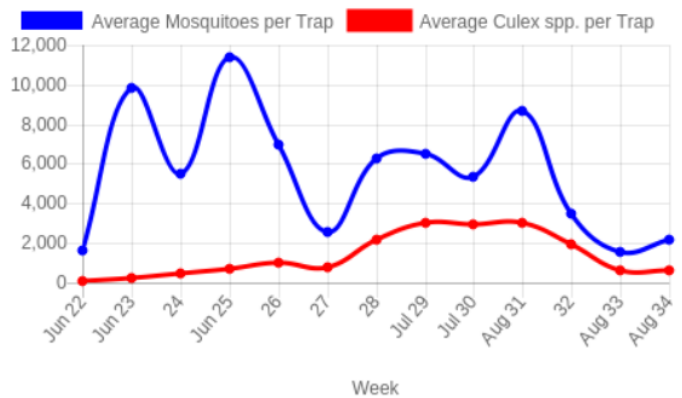
Boulder County Surveillance Light Trap Data

In 2024, an average of 22 surveillance light traps monitored adult mosquito populations within the Boulder County Mosquito Control District on a weekly basis. VDCI began adult surveillance the week of June 2nd and concluded the week of August 25th corresponding with low adult mosquito activity. There were 281 CDC light surveillance trap nights set for the program during the 2024 season. These traps collected a total of 71,835 mosquitoes. There was an average of 255.6 mosquitoes caught per trap per night and an average 62.1 *Culex spp.* mosquitoes per trap per night. A total of 17 species were represented in 2024. The composition of mosquitoes collected was 51,003 *Aedes/Ochlerotatus spp.*, 3,001 *Anopheles spp.*, 17,463 *Culex spp.*, and 73 *Culiseta spp.*

2024 Composite Trap Data

Total number of trap/nights set:	281
Total number of mosquitoes collected:	71,835.0
Average mosquitoes per trap/night:	255.6
Average Culex per trap/night:	62.1

Seasonality

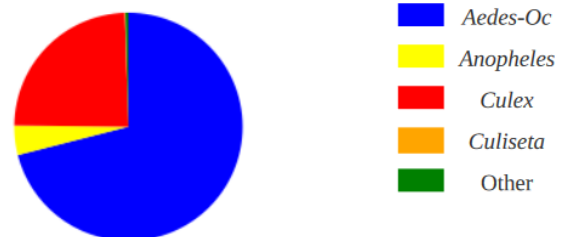


Species collected and abundance:

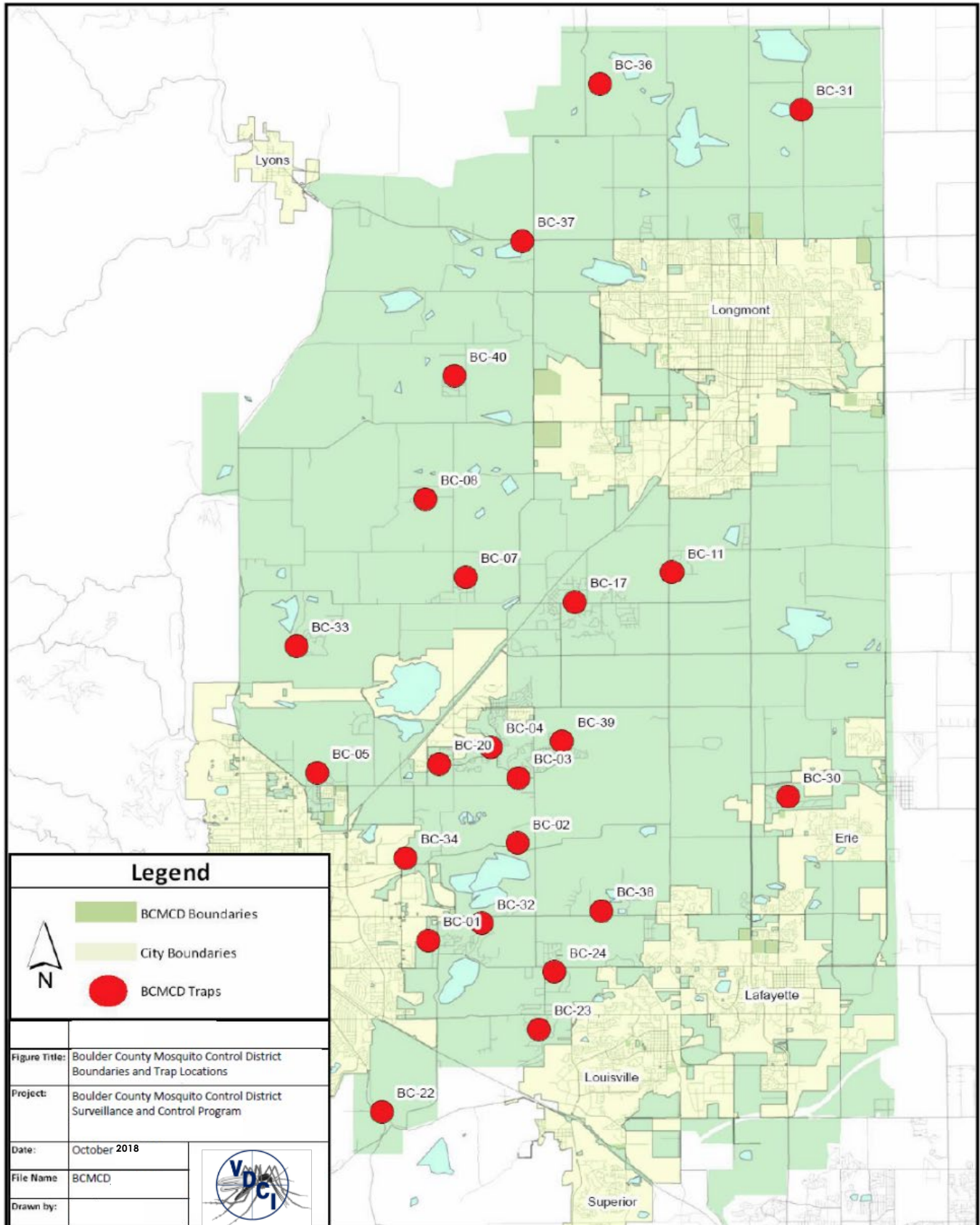
<i>Aedes cinereus</i>	15.0	0.0%
<i>Aedes dorsalis</i>	919.0	1.3%
<i>Aedes fitchii</i>	9.0	0.0%
<i>Aedes hendersoni</i>	75.0	0.1%
<i>Aedes increpitus</i>	12,355.0	17.2%
<i>Aedes melanimon</i>	1,383.0	1.9%
<i>Aedes nigromaculis</i>	151.0	0.2%
<i>Aedes sollicitans</i>	1.0	0.0%
<i>Aedes trivittatus</i>	8,773.0	12.2%
<i>Aedes vexans</i>	27,322.0	38.0%
<i>Anopheles freeborni</i>	3,001.0	4.2%
<i>Coquillettidia perturbans</i>	295.0	0.4%
<i>Culex pipiens</i>	1,569.0	2.2%
<i>Culex salinarius</i>	391.0	0.5%
<i>Culex tarsalis</i>	15,503.0	21.6%
<i>Culiseta inornata</i>	70.0	0.1%
<i>Culiseta minnesotae</i>	3.0	0.0%

Genus Proportions:

Genus	Number	Percent of Total
<i>Aedes/Ochlerotatus</i>	51,003	71.0%
<i>Anopheles</i>	3,001	4.2%
<i>Culex</i>	17,463	24.3%
<i>Culiseta</i>	73	0.1%
Other	295	0.4%



2024 BCMCD Boundaries and Trap Locations



2024 West Nile Virus Season

Background



West Nile Virus (WNV) was first identified in Uganda in 1937. Since that time, activity has been documented throughout Africa, Europe, West and Central Asia, and areas of the Middle East. The virus made its first appearance to North America in 1999 when it was documented in New York City. WNV comes from a family of viruses known as Flaviviridae and is closely related to viruses which can have severe effects on both humans and animals such as Japanese Encephalitis and St. Louis encephalitis.

WNV has a wide range of symptoms which can range from mild flu like symptoms to death. Of humans affected, nearly 80% will show no symptoms at all. Most people who do show symptoms will usually suffer from flu like symptoms. However, approximately 1% of people will develop much more severe symptoms including meningitis (inflammation of the linings surrounding the brain and spinal cord), encephalitis (inflammation of the brain), or very rarely poliomyelitis which can cause paralysis in parts of the body.

Since the introduction of WNV to the United States, the virus has made a complete westward expansion to the West Coast. Starting in the Northeastern parts of the United States, the virus steadily progressed through the South, the Midwest, the Rocky Mountain region, and now the Western States. WNV activity has been documented in all US states except Alaska and Hawaii. This extensive distribution is due to the ability of the virus 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.

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 has produced two additional, large nationwide epidemics in 2003 and 2012.

Colorado first saw activity of the virus late in the summer of 2002. In 2003 Colorado was the hardest hit state in the country, compiling 2,947 human cases and 63 deaths, most of which occurred along the Front Range. By 2004 most of the cases shifted to the Western Slope and the state totaled 291 cases with 4 deaths (Mesa County). West Nile Virus has been present in Colorado ever since.

As West Nile Virus is endemic to Colorado, all residents should always be encouraged to take personal protective measures during the season, such as draining water from properties, avoiding the outdoors at dawn and dusk when possible, and defending themselves by wearing repellent and dressing appropriately with pants and long sleeves.

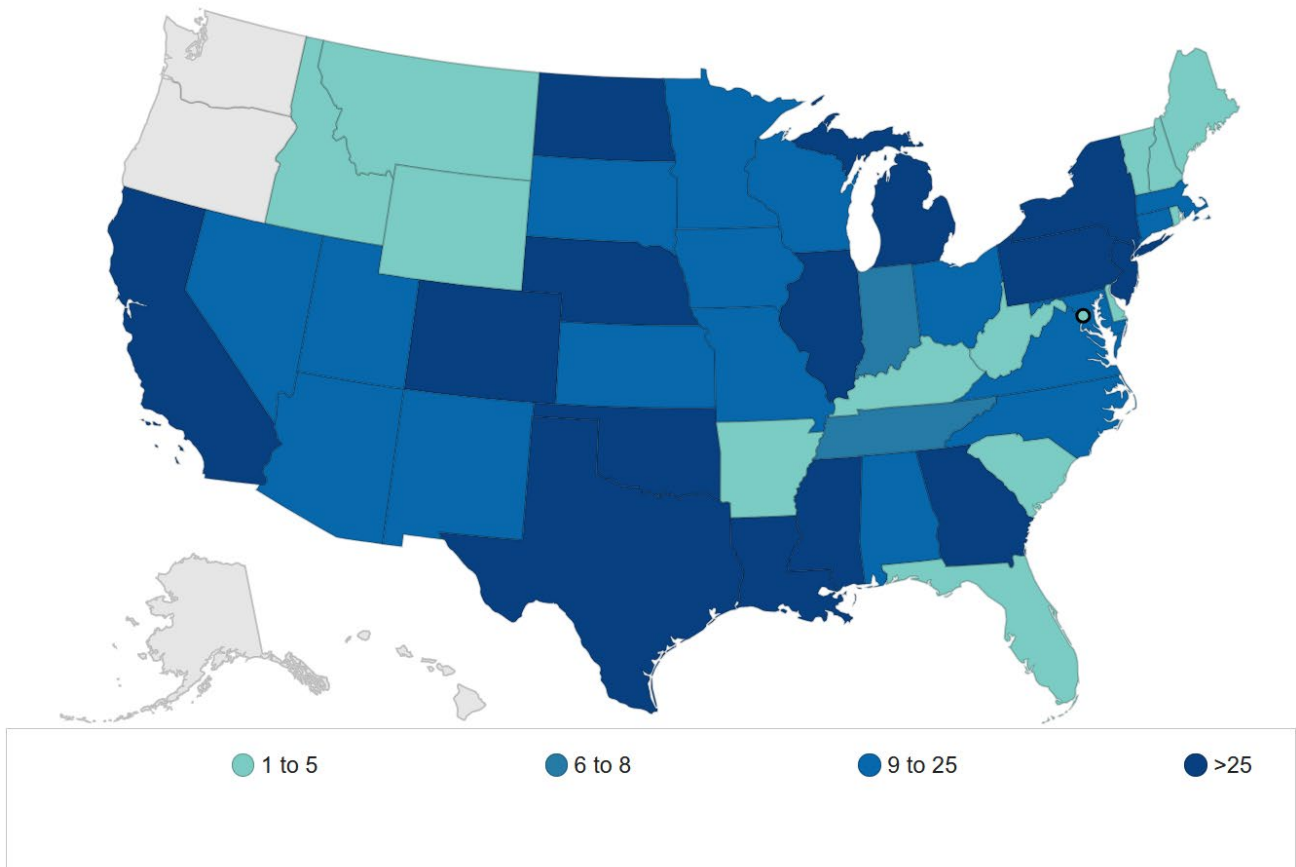


2024 West Nile Virus Season - United States

As of October 15, 2024, a total of 47 states and the District of Columbia have reported West Nile virus infections in people, birds, or mosquitoes in 2024. Overall, 1,060 human cases of West Nile virus disease have been reported to the Centers for Disease Control and Prevention (CDC). 741 are reported to be neuroinvasive. Non-human West Nile virus activity (mosquitoes, birds, or sentinel animals) has been reported in 47 states.

In 2023, 48 states reported 2,566 human cases of WNV and 182 deaths. There were 1,840 hospitalizations. 1,738 cases were neuroinvasive.

West Nile virus human disease cases reported by state of residence, 2024



<https://www.cdc.gov/westnile/statsmaps/current-season-data.html>

2024 West Nile Virus Season - Colorado

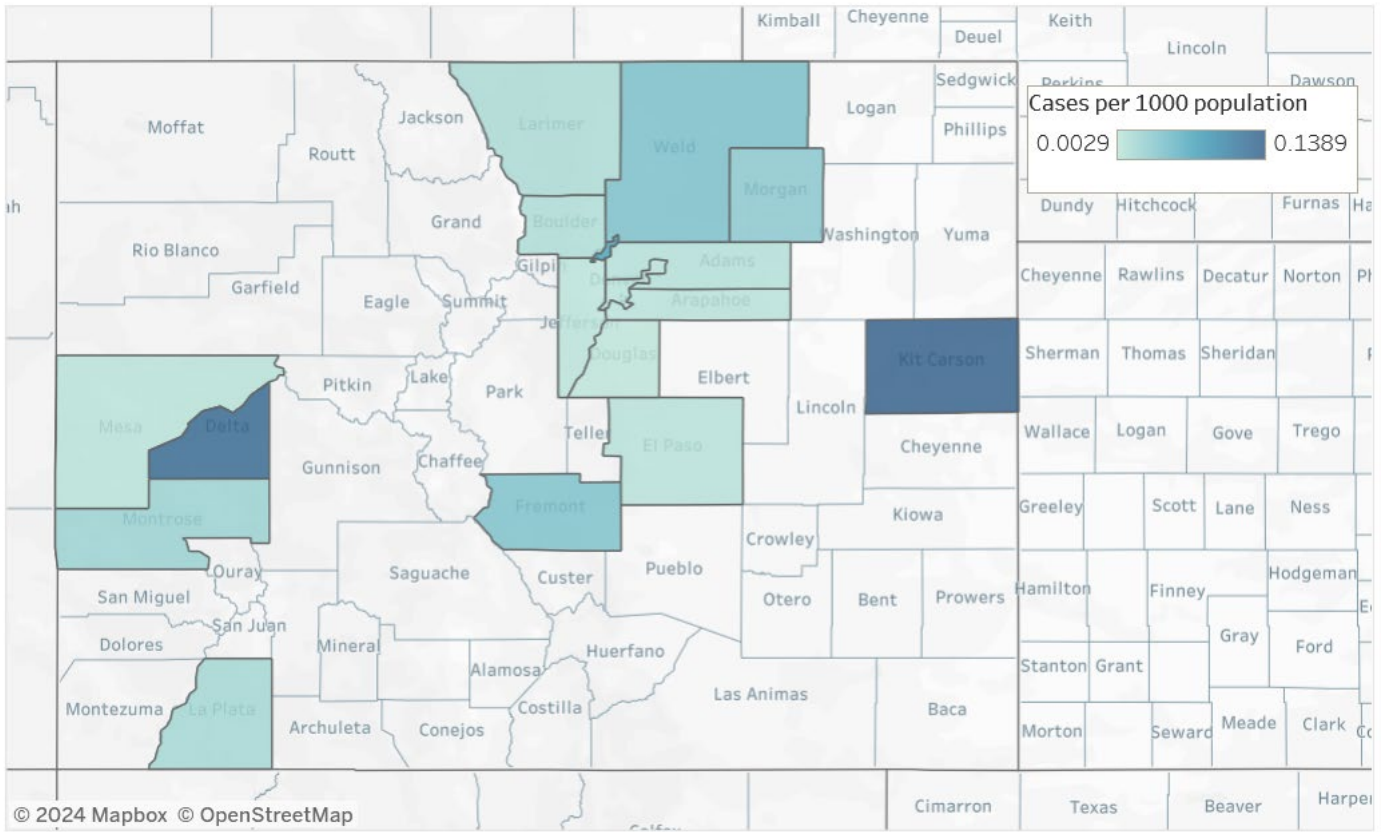
The Colorado Department of Public Health & Environment (CDPHE) began testing mosquito samples in early June. As of October 15th, there have been 192 West Nile virus positive mosquito pools across the Colorado counties of Adams (2), Arapahoe (7), Boulder (22), Delta (3), Denver (5), Jefferson (1), La Plata (1) Larimer (134), Pueblo (2), and Weld (15).

There have been 71 reported human cases in Adams (5), Arapahoe (8), Boulder (6), Broomfield (5), Delta (7), Denver (6), Douglas (2), El Paso (5), Fremont (2), Jefferson (3), Kit Carson (1), La Plata (1), Larimer (5), Mesa (1), Montrose (1), Morgan (1), and Weld (15) counties. CDPHE currently reports 24 cases requiring hospitalization and 4 fatalities. 38 cases had neurological symptoms.

There were 634 cases and 51 deaths in 2023, placing it at 2nd for overall cases, and 2nd in deaths since WNV first became reportable in Colorado in 2003. That year 66 deaths were reported. With 4 deaths currently, 2024 will rank at least 14th.

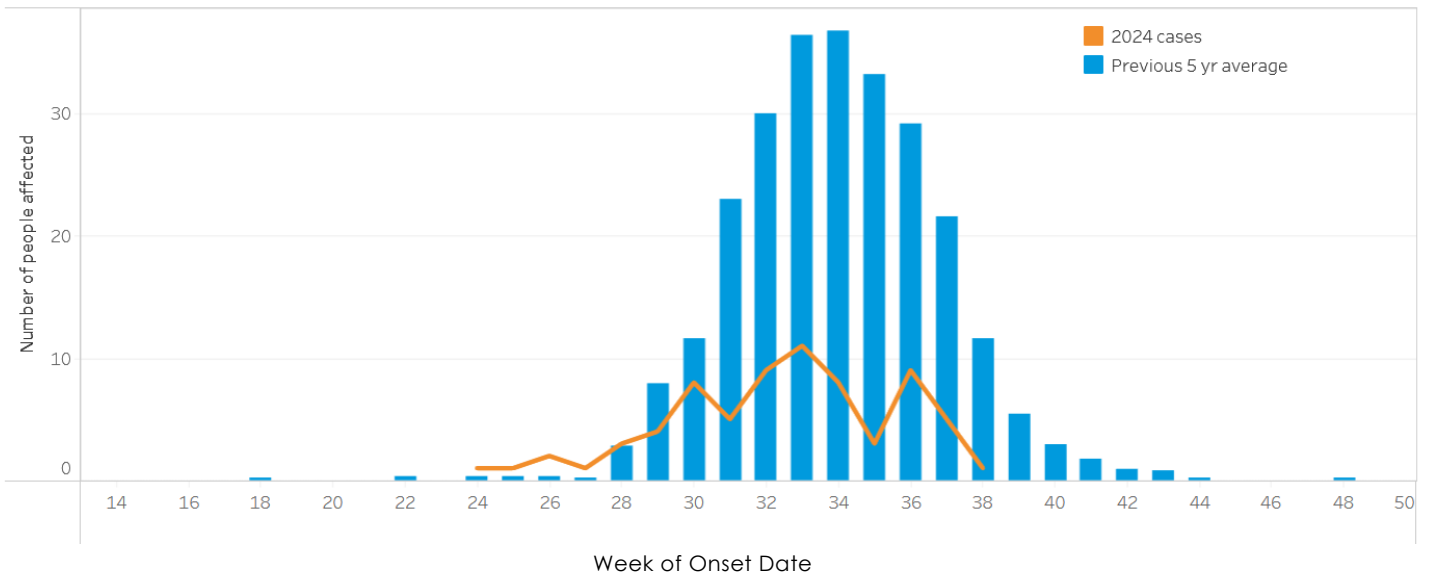
Case Map and Demographics

People affected by West Nile virus per 1000 population by county of residence, 2024



People affected by West Nile virus 2024

People affected: 71
Affected people who died: 4
Affected people with neurologic symptoms: 38
Affected people requiring hospitalization: 24



<https://cdphe.colorado.gov/animal-related-diseases/west-nile-virus/west-nile-virus-data>

2023 West Nile Virus Season - Boulder County

VDCI and BCMCD use the adult mosquito data from weekly trap collections to help determine local areas of concern for public awareness and safety as well as to monitor the local vector mosquito populations. Many local health departments use 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 are 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.

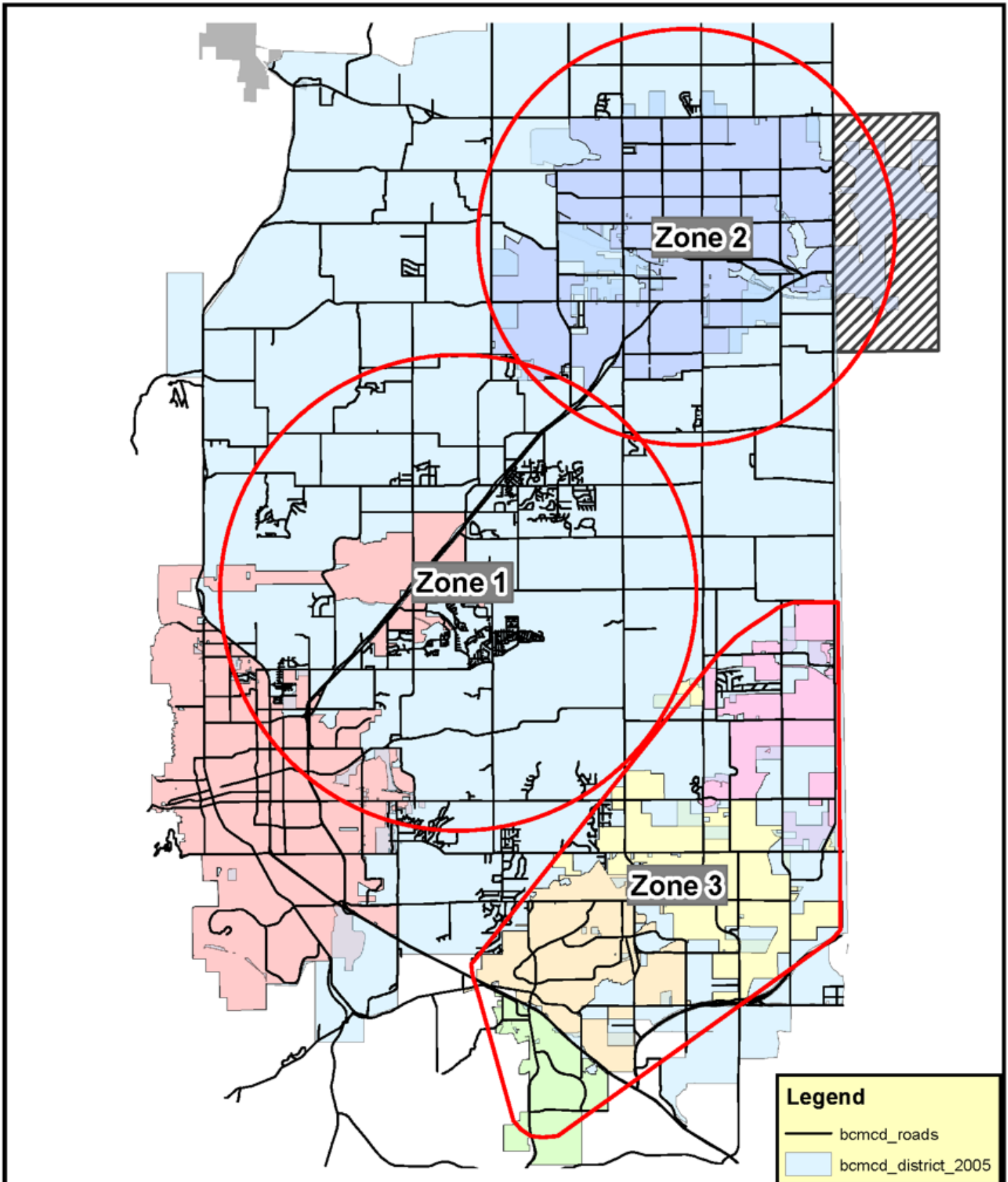
As defined in the CDC guidelines for West Nile virus surveillance, prevention and control, the vector index (VI) is an estimate of the number of West Nile virus infected mosquitoes in an area. This number can serve as a human health risk value. An operational value of 0.75, which was derived from the 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. A VI of 0.00 or a negative test result does not indicate the absence of infected mosquitoes in the area.

Due to budget cutbacks associated with West Nile virus surveillance in recent years, the CDPHE does not have the ability to test mosquitoes from every trap set across the state. As a result, there is select testing done within three sentinel zones in Boulder County. *Culex species* mosquito samples are sent to CDPHE for WNV testing on a weekly basis as part of the state's Sentinel Encephalitis Surveillance program, which VDCI is contracted separately through BCPH to perform.

VECTOR INDEX LOG			
	ZONE 1	ZONE 2	ZONE 3
Season Week	Vector Index	Vector Index	Vector Index
Week 23	----	----	----
Week 24	----	----	----
Week 25	----	----	----
Week 26	0.00	0.00	0.00
Week 27	0.00	0.00	0.00
Week 28	0.00	0.00	0.00
Week 29	0.00	0.36	0.00
Week 30	0.00	0.00	0.00
Week 31	1.33	0.42	0.00
Week 32	0.24	1.36	0.54
Week 33	0.00	0.23	0.00
Week 34	0.20	0.45	0.19
Week 35	0.20	0.00	0.14

The actual 2024 weekly Vector Index rates, as calculated by BCPH, for sentinel zones 1, 2 and 3 are illustrated above. WNV was first detected in Boulder County in week 29. Outside of spikes in Week 31 and 32, the Vector Index remained relatively low throughout the season. 2023 had unprecedented VI numbers which triggered additional adulticide operations in the County. No additional adulticiding was necessary in 2024. 40% of submitted pools were positive in 2024, compared to 32% in 2023 and 42% in 2022. While a higher percentage of pools were positive in 2024 than 2023, *Culex* abundance was much lower.

Boulder County WNV Sentinel Zones



2024 Larval Control Operations

Years of research and practical experience have shown that the most effective way to control mosquito populations is through an aggressive Integrated Pest Management (IPM) approach. This approach aims at using a variety of concepts, tools, and products to reduce a pest population to tolerable levels. Translating these ideas to mosquito control, VDCI has found the most environmentally and economically sound approach is through targeting the aquatic larval stage of the mosquito. Targeting this stage prevents the emergence of the adult mosquito and thus the inevitable result of disease and nuisance. In Colorado over 90% of VDCI operational efforts are focused on larval control.

Larval mosquito control can be achieved in several ways including biological, biochemical, chemical, and mechanical means. Although there are a variety of methods for reducing larval populations, some options may have greater consequences than benefits. Mechanical or habitat modification is a technique which may be used, but the area to be modified and the extent to which the work will affect the surrounding area must be carefully assessed. Permanent ecological damage may occur if extensive habitat change has taken place.

VDCI's favored method of larval mosquito control is through bacterial biological larvicide products. The main product used by VDCI has an active ingredient that 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 properly successful control without impact to aquatic invertebrates, birds, mammals, fish, amphibians, reptiles or humans can be achieved. A broad label allows for the use of the product in many natural and manmade habitats. Another bacterial product closely related to Bti is *Bacillus sphaericus* (Bs). In addition to the benefits of Bti, Bs is a true biological control agent in that it remains in the water column through multiple broods, or generations, of mosquitoes. Unfortunately, the residual benefit of the control comes at a cost in price and is only effective under very specific conditions and mosquito species.

Other larval control products include an insect growth regulator (methoprene) and a special mineral oil blend. Methoprene is a synthetic copy of a juvenile growth hormone in larval mosquitoes. The hormone prevents normal development of the adult mosquito in the pupal stage eventually causing death. While a good control product, the high cost makes it a poor candidate to be the predominant product in a large-scale program.

Pre-season larval control work involved ground truthing GIS maps as well as remapping areas where new development and altered landscapes occurred. The hiring of seasonal field technicians began in April and continued into July. VDCI began larval site inspections the first full week in May and VDCI's new technician classroom and field training was conducted during the week of May 21st. Additional field training by VDCI management and veteran employees lasted through May and full-time field activities were in effect by early June. Many sites were selected for monthly and/or residual larvicide treatments.

In 2024, Vector Disease Control International performed 2659 larval site inspections throughout the service area. Of these individual inspections, 2077 sites were wet upon inspection and 982 were producing mosquito larvae. VDCI technicians applied 888.84 lbs. of VectoBac G (*Bti*), 146 lbs. of Vectolex FG (*Bs.*), 60.55 lbs. of Altosid XRG (*Methoprene*), and 222.9 ounces of BVA 2 larvicide oil to 214 acres of breeding habitat.



2024 Adult Mosquito Control Operations

VDCI's goal is to provide all residents with the best options for safe, effective, modern mosquito management. While the primary emphasis of our mosquito management program is to control mosquitoes in the larval stage, this environmentally focused program maintains adulticiding as a final resort when adult mosquito populations surpass nuisance or risk thresholds. Mosquito surveillance results are used to make data driven decisions regarding areas that need to be sprayed for adult mosquito control. Such spraying is targeted to specific sectors determined by said data thereby reducing the size and frequency of spraying a given area.

VDCI uses all available data from CDC light traps, Mosquito Hotline annoyance calls, and field technician reports to focus adult mosquito control efforts on specific, very limited "targeted" areas. In parts of the community where high numbers of mosquito annoyance calls are received, "floater" CDC light traps are set to evaluate adult population levels and species make-up. In most cases, a direct correlation is evident between areas with high complaint calls and high trap counts. While this correlation allows us to focus adult control in these areas, the emphasis is placed on finding the source of breeding and continued larval control measures.

VDCI uses state of the art technology, calibrated application timing, and least-toxic products to minimize all non-target impact. All adult mosquito control is accomplished using calibrated Ultra Low Volume (ULV) equipment and performed after dusk. 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 activity is greatly reduced. Using this application technique, the overall goal of minimal environmental impact and effective adult control is achieved in the targeted area. VDCI utilizes the water-based product Aqua Perm-X UL 30-30 for ULV adult mosquito control. This uses the highly effective pyrethroid Permethrin as the active ingredient, while the water-base provides a much more environmentally sound solution to traditional oil-based adulticides. Daytime backpack barrier applications using the product Talstar Pro and utilizing the pyrethroid Bifenthrin are also effective in controlling adult mosquitoes.

Various thresholds, usually 100 or more adult mosquitoes per trap, are used to trigger ULV adulticide applications. Additionally, a continuing weekly evaluation of several factors is utilized to determine if a neighborhood or spray zone requires ULV adulticide applications. These factors include current weekly trap species diversity and abundance (*Aedes vs. Culex spp.*), previous weekly trap species diversity and abundance (*Aedes vs. Culex spp.*), declining or increasing trap diversity and abundance (*Aedes vs. Culex spp.*), the volume of resident annoyance calls from a given area, human population density in the trap vicinity, and WNV activity in the area.

During the 2024 season 69 applications were made for the program for a total of 204.5 miles using AquaPerm-X UL 30-30.



Public Relations and Education

VDCI provides strong Public Outreach and Education Programs to residents in all communities we service. 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 to increase the effectiveness of our programs. We have clearly demonstrated that commitment and belief by proactively serving our contracted communities with numerous innovative programs, activities and services.

Customer service is always a high priority for VDCI. We take pride in training 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 for Colorado, (877) 276-4306 as well as two local lines, (303) 428-5908 and (303) 466-1892 to accept calls from the public concerning:

- * Information requests about mosquito biology and source reduction of mosquito habitats
- * Information on program components, operations and monitoring
- * Personal protection options for mosquito annoyances and West Nile virus risk and activity
- * Reports about mosquitoes, possible larval mosquito habitats and larviciding requests
- * Request notification or ULV shut-off when adulticide spraying is planned in their neighborhood
- * Request health and safety information about mosquito control operations and pesticide products used

VDCI provides the Mosquito Hotline to residents to reduce workload by municipal personnel. This enables direct communication and response by mosquito control employees to resident concerns about West Nile virus and larval site activity and treatment. VDCI maintains a log of calls received.

In 2024 VDCI received approximately 96 service requests from residents within the program.



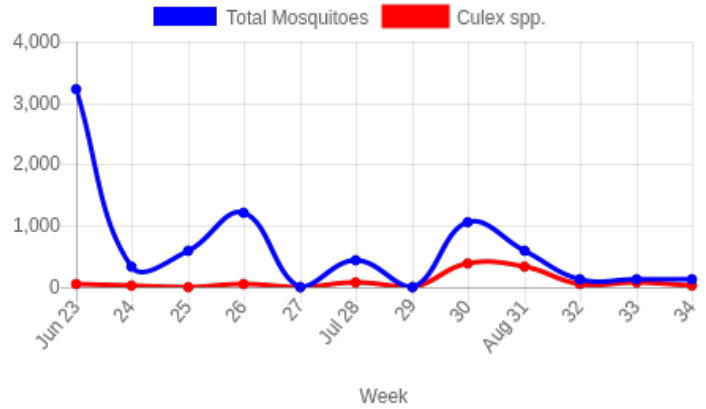
Appendix A: Light Trap Summaries

BC-02

Season: 04/01/2024 - 10/01/2024
Trap Type: CDC Light Trap
Location: Cottonwood Kennels
GPS: 40.03472299041908, -105.1832801476121

Total number of trap/nights set: 12.0
Total number of mosquitoes collected: 7,801.0
Average mosquitoes per trap/night: 650.1
Average Culex per trap/night: 85.3

Seasonality

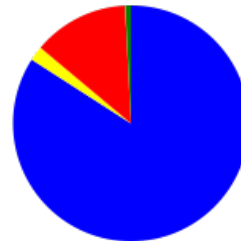


Species collected and abundance:

<i>Aedes dorsalis</i>	40.0	0.5%
<i>Aedes hendersoni</i>	40.0	0.5%
<i>Aedes increpitus</i>	3,757.0	48.2%
<i>Aedes melanimon</i>	50.0	0.6%
<i>Aedes trivittatus</i>	216.0	2.8%
<i>Aedes vexans</i>	2,457.0	31.5%
<i>Anopheles freeborni</i>	156.0	2.0%
<i>Coquillettidia perturbans</i>	58.0	0.7%
<i>Culex pipiens</i>	34.0	0.4%
<i>Culex salinarius</i>	10.0	0.1%
<i>Culex tarsalis</i>	979.0	12.5%
<i>Culiseta inornata</i>	4.0	0.1%

Genus Proportions:

Genus	Number	Percent of Total
<i>Aedes/Ochlerotatus</i>	6,560.0	84.1%
<i>Anopheles</i>	156.0	2.0%
<i>Culex</i>	1,023.0	13.1%
<i>Culiseta</i>	4.0	0.1%
Other	58.0	0.7%



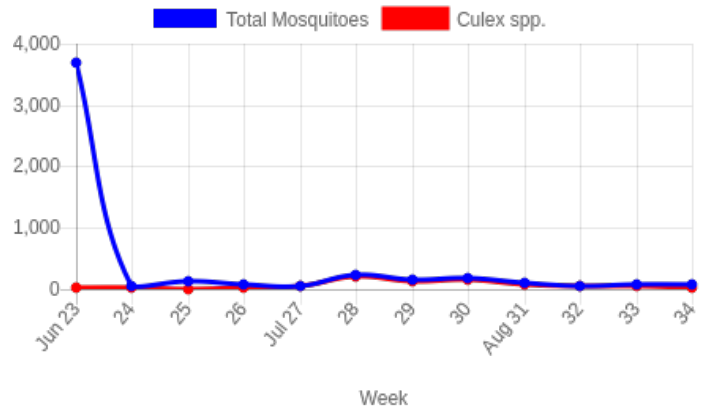
- *Aedes-Oc*
- *Anopheles*
- *Culex*
- *Culiseta*
- Other

BC-03

Season: 04/01/2024 - 10/01/2024
Trap Type: CDC Light Trap
Location: Gunbarrel SE - Pali Way
GPS: 40.05286530981087, -105.18392018973827

Total number of trap/nights set: 13.0
Total number of mosquitoes collected: 4,851.0
Average mosquitoes per trap/night: 373.2
Average Culex per trap/night: 59.8

Seasonality

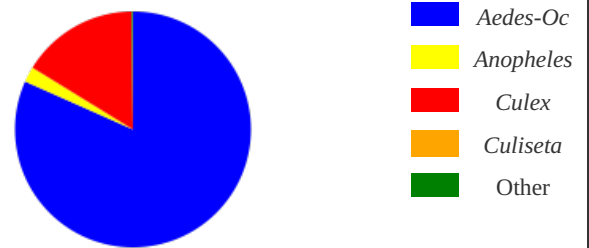


Species collected and abundance:

<i>Aedes dorsalis</i>	5.0	0.1%
<i>Aedes increpitus</i>	3,681.0	75.9%
<i>Aedes melanimon</i>	18.0	0.4%
<i>Aedes trivittatus</i>	43.0	0.9%
<i>Aedes vexans</i>	214.0	4.4%
<i>Anopheles freeborni</i>	103.0	2.1%
<i>Coquillettidia perturbans</i>	7.0	0.1%
<i>Culex pipiens</i>	111.0	2.3%
<i>Culex salinarius</i>	45.0	0.9%
<i>Culex tarsalis</i>	621.0	12.8%
<i>Culiseta inornata</i>	3.0	0.1%

Genus Proportions:

Genus	Number	Percent of Total
<i>Aedes/Ochlerotatus</i>	3,961.0	81.7%
<i>Anopheles</i>	103.0	2.1%
<i>Culex</i>	777.0	16.0%
<i>Culiseta</i>	3.0	0.1%
Other	7.0	0.1%

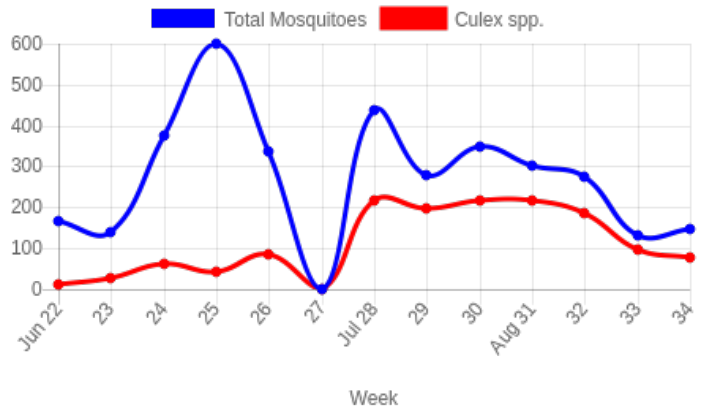


BC-04

Season: 04/01/2024 - 10/01/2024
Trap Type: CDC Light Trap
Location: Gunbarrel NW - Red Fox Hills
GPS: 40.06166535330985, -105.19397009164095

Total number of trap/nights set: 13.0
Total number of mosquitoes collected: 3,540.0
Average mosquitoes per trap/night: 272.3
Average Culex per trap/night: 110.3

Seasonality

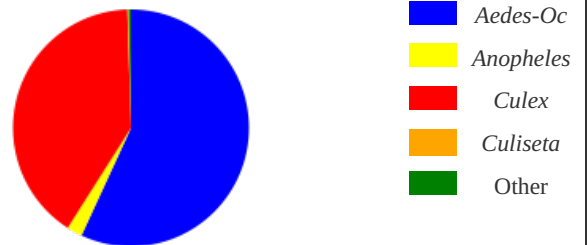


Species collected and abundance:

Species	Number	Percentage
<i>Aedes dorsalis</i>	31.0	0.9%
<i>Aedes increpitus</i>	431.0	12.2%
<i>Aedes melanimon</i>	153.0	4.3%
<i>Aedes nigromaculis</i>	2.0	0.1%
<i>Aedes trivittatus</i>	33.0	0.9%
<i>Aedes vexans</i>	1,364.0	38.5%
<i>Anopheles freeborni</i>	75.0	2.1%
<i>Coquillettidia perturbans</i>	11.0	0.3%
<i>Culex pipiens</i>	381.0	10.8%
<i>Culex salinarius</i>	102.0	2.9%
<i>Culex tarsalis</i>	951.0	26.9%
<i>Culiseta inornata</i>	3.0	0.1%
<i>Culiseta mimnesotae</i>	3.0	0.1%

Genus Proportions:

Genus	Number	Percent of Total
<i>Aedes/Ochlerotatus</i>	2,014.0	56.9%
<i>Anopheles</i>	75.0	2.1%
<i>Culex</i>	1,434.0	40.5%
<i>Culiseta</i>	6.0	0.2%
Other	11.0	0.3%



BC-05

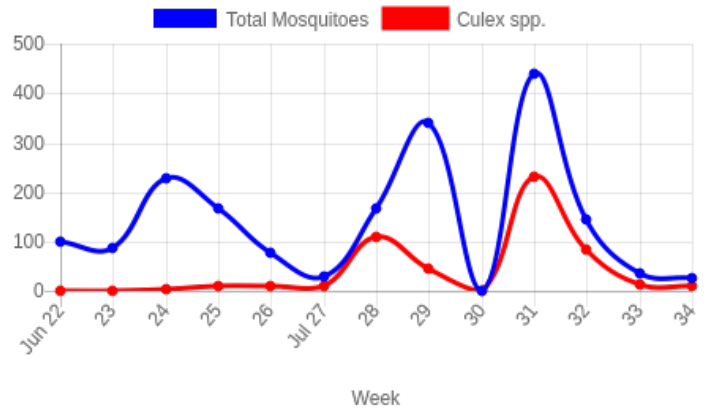
Season: 04/01/2024 - 10/01/2024
Trap Type: CDC Light Trap
Location: Orange Orchard
GPS: 40.054130777367405, -105.25484014302492

Total number of trap/nights set: 13.0
Total number of mosquitoes collected: 1,848.0
Average mosquitoes per trap/night: 142.2
Average Culex per trap/night: 41.5

Species collected and abundance:

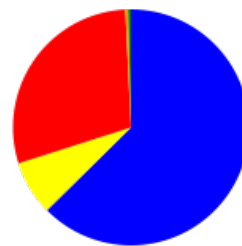
<i>Aedes dorsalis</i>	9.0	0.5%
<i>Aedes increpitus</i>	425.0	23.0%
<i>Aedes melanimon</i>	5.0	0.3%
<i>Aedes trivittatus</i>	21.0	1.1%
<i>Aedes vexans</i>	697.0	37.7%
<i>Anopheles freeborni</i>	138.0	7.5%
<i>Coquillettidia perturbans</i>	7.0	0.4%
<i>Culex pipiens</i>	90.0	4.9%
<i>Culex salinarius</i>	17.0	0.9%
<i>Culex tarsalis</i>	432.0	23.4%
<i>Culiseta inornata</i>	7.0	0.4%

Seasonality



Genus Proportions:

Genus	Number	Percent of Total
<i>Aedes/Ochlerotatus</i>	1,157.0	62.6%
<i>Anopheles</i>	138.0	7.5%
<i>Culex</i>	539.0	29.2%
<i>Culiseta</i>	7.0	0.4%
Other	7.0	0.4%



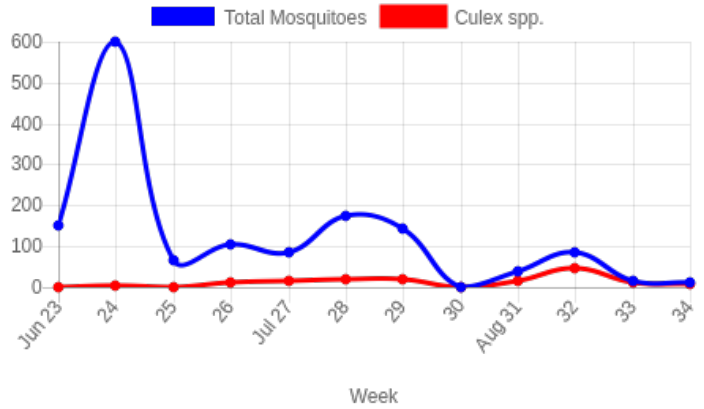
- *Aedes-Oc*
- *Anopheles*
- *Culex*
- *Culiseta*
- Other

BC-07

Season: 04/01/2024 - 10/01/2024
Trap Type: CDC Light Trap
Location: Brigadoon Glen/Left Hand Creek
GPS: 40.108573141999734, -105.20238015800714

Total number of trap/nights set: 12.0
Total number of mosquitoes collected: 1,469.0
Average mosquitoes per trap/night: 122.4
Average Culex per trap/night: 12.2

Seasonality

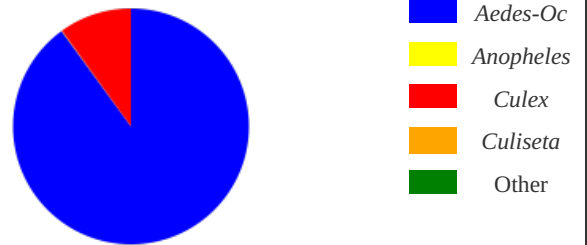


Species collected and abundance:

<i>Aedes dorsalis</i>	27.0	1.8%
<i>Aedes hendersoni</i>	1.0	0.1%
<i>Aedes increpitus</i>	16.0	1.1%
<i>Aedes melanimon</i>	51.0	3.5%
<i>Aedes trivittatus</i>	1,012.0	68.9%
<i>Aedes vexans</i>	215.0	14.6%
<i>Anopheles freeborni</i>	1.0	0.1%
<i>Culex pipiens</i>	2.0	0.1%
<i>Culex tarsalis</i>	144.0	9.8%

Genus Proportions:

Genus	Number	Percent of Total
<i>Aedes/Ochlerotatus</i>	1,322.0	90.0%
<i>Anopheles</i>	1.0	0.1%
<i>Culex</i>	146.0	9.9%
<i>Culiseta</i>	0.0	0.0%
Other	0.0	0.0%

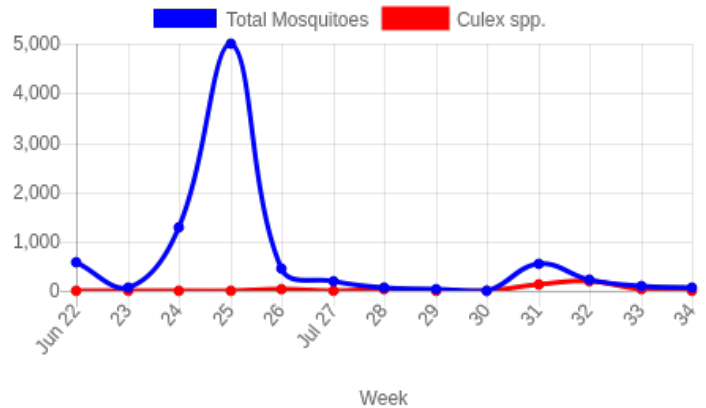


BC-08

Season: 04/01/2024 - 10/01/2024
Trap Type: CDC Light Trap
Location: Boulder Hills
GPS: 40.13067309400645, -105.21678026765585

Total number of trap/nights set: 13.0
Total number of mosquitoes collected: 8,743.0
Average mosquitoes per trap/night: 672.5
Average Culex per trap/night: 47.9

Seasonality

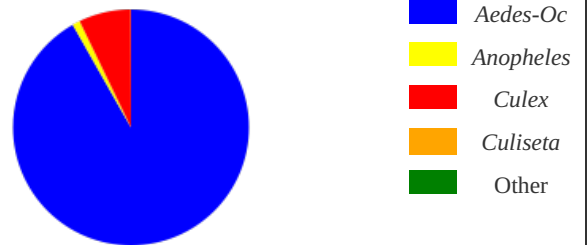


Species collected and abundance:

<i>Aedes dorsalis</i>	65.0	0.7%
<i>Aedes increpitus</i>	982.0	11.2%
<i>Aedes melanimon</i>	145.0	1.7%
<i>Aedes trivittatus</i>	5,383.0	61.6%
<i>Aedes vexans</i>	1,450.0	16.6%
<i>Anopheles freeborni</i>	92.0	1.1%
<i>Culex pipiens</i>	9.0	0.1%
<i>Culex salinarius</i>	2.0	0.0%
<i>Culex tarsalis</i>	612.0	7.0%
<i>Culiseta inornata</i>	3.0	0.0%

Genus Proportions:

Genus	Number	Percent of Total
<i>Aedes/Ochlerotatus</i>	8,025.0	91.8%
<i>Anopheles</i>	92.0	1.1%
<i>Culex</i>	623.0	7.1%
<i>Culiseta</i>	3.0	0.0%
Other	0.0	0.0%



BC-11

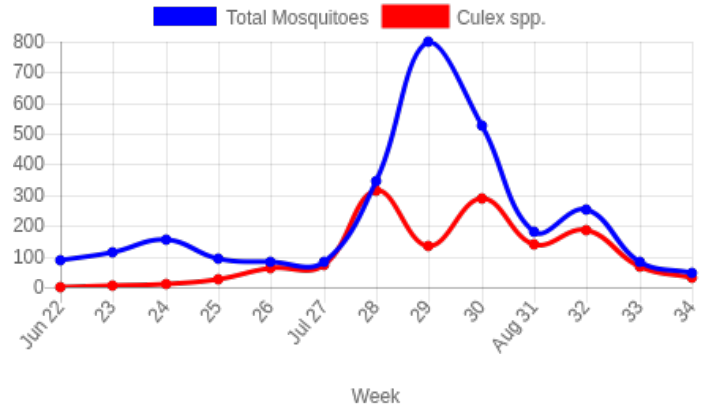
Season: 04/01/2024 - 10/01/2024
Trap Type: CDC Light Trap
Location: Niwot East - Majestic Road
GPS: 40.11002296801699, -105.13033032417297

Total number of trap/nights set: 13.0
Total number of mosquitoes collected: 2,850.0
Average mosquitoes per trap/night: 219.2
Average Culex per trap/night: 102.6

Species collected and abundance:

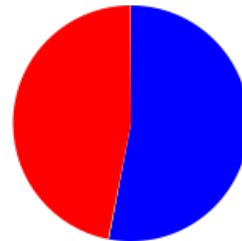
Species	Number	Percentage
<i>Aedes dorsalis</i>	178.0	6.2%
<i>Aedes increpitus</i>	249.0	8.7%
<i>Aedes melanimon</i>	14.0	0.5%
<i>Aedes trivittatus</i>	15.0	0.5%
<i>Aedes vexans</i>	1,055.0	37.0%
<i>Anopheles freeborni</i>	3.0	0.1%
<i>Culex pipiens</i>	36.0	1.3%
<i>Culex salinarius</i>	14.0	0.5%
<i>Culex tarsalis</i>	1,284.0	45.1%
<i>Culiseta inornata</i>	2.0	0.1%

Seasonality



Genus Proportions:

Genus	Number	Percent of Total
<i>Aedes/Ochlerotatus</i>	1,511.0	53.0%
<i>Anopheles</i>	3.0	0.1%
<i>Culex</i>	1,334.0	46.8%
<i>Culiseta</i>	2.0	0.1%
Other	0.0	0.0%



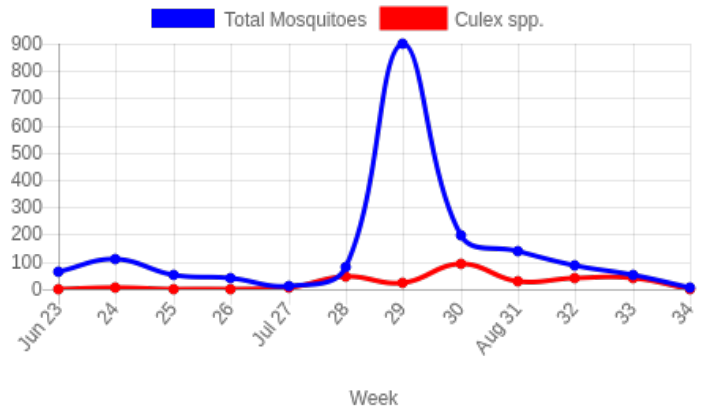
- *Aedes-Oc*
- *Anopheles*
- *Culex*
- *Culiseta*
- Other

BC-17

Season: 04/01/2024 - 10/01/2024
Trap Type: CDC Light Trap
Location: Niwot Central
GPS: 40.10182312067478, -105.16408022493124

Total number of trap/nights set: 13.0
Total number of mosquitoes collected: 1,739.0
Average mosquitoes per trap/night: 133.8
Average Culex per trap/night: 20.6

Seasonality

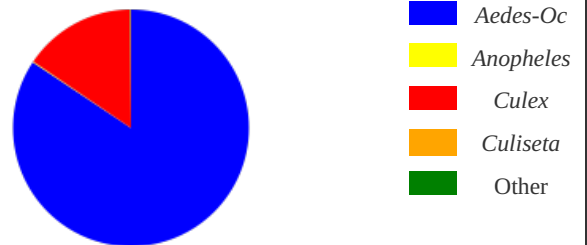


Species collected and abundance:

Species	Number	Percent
<i>Aedes dorsalis</i>	6.0	0.3%
<i>Aedes fitchii</i>	3.0	0.2%
<i>Aedes hendersoni</i>	2.0	0.1%
<i>Aedes increpitus</i>	69.0	4.0%
<i>Aedes melanimon</i>	5.0	0.3%
<i>Aedes trivittatus</i>	27.0	1.6%
<i>Aedes vexans</i>	1,355.0	77.9%
<i>Anopheles freeborni</i>	2.0	0.1%
<i>Coquillettidia perturbans</i>	1.0	0.1%
<i>Culex pipiens</i>	14.0	0.8%
<i>Culex salinarius</i>	4.0	0.2%
<i>Culex tarsalis</i>	250.0	14.4%
<i>Culiseta inornata</i>	1.0	0.1%

Genus Proportions:

Genus	Number	Percent of Total
<i>Aedes/Ochlerotatus</i>	1,467.0	84.4%
<i>Anopheles</i>	2.0	0.1%
<i>Culex</i>	268.0	15.4%
<i>Culiseta</i>	1.0	0.1%
Other	1.0	0.1%

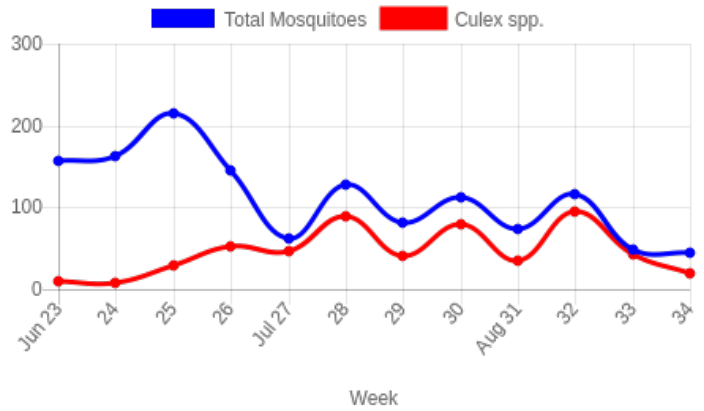


BC-20

Season: 04/01/2024 - 10/01/2024
Trap Type: CDC Light Trap
Location: Willows/Gunbarrel Commons
GPS: 40.05681535908921, -105.21202001720667

Total number of trap/nights set: 13.0
Total number of mosquitoes collected: 1,346.0
Average mosquitoes per trap/night: 103.5
Average Culex per trap/night: 41.8

Seasonality

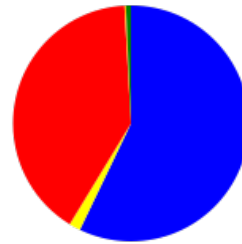


Species collected and abundance:

Species	Number	Percent
<i>Aedes cinereus</i>	1.0	0.1%
<i>Aedes dorsalis</i>	2.0	0.1%
<i>Aedes increpitus</i>	316.0	23.5%
<i>Aedes melanimon</i>	3.0	0.2%
<i>Aedes trivittatus</i>	9.0	0.7%
<i>Aedes vexans</i>	438.0	32.5%
<i>Anopheles freeborni</i>	21.0	1.6%
<i>Coquillettidia perturbans</i>	9.0	0.7%
<i>Culex pipiens</i>	189.0	14.0%
<i>Culex salinarius</i>	59.0	4.4%
<i>Culex tarsalis</i>	296.0	22.0%
<i>Culiseta inornata</i>	3.0	0.2%

Genus Proportions:

Genus	Number	Percent of Total
<i>Aedes/Ochlerotatus</i>	769.0	57.1%
<i>Anopheles</i>	21.0	1.6%
<i>Culex</i>	544.0	40.4%
<i>Culiseta</i>	3.0	0.2%
Other	9.0	0.7%



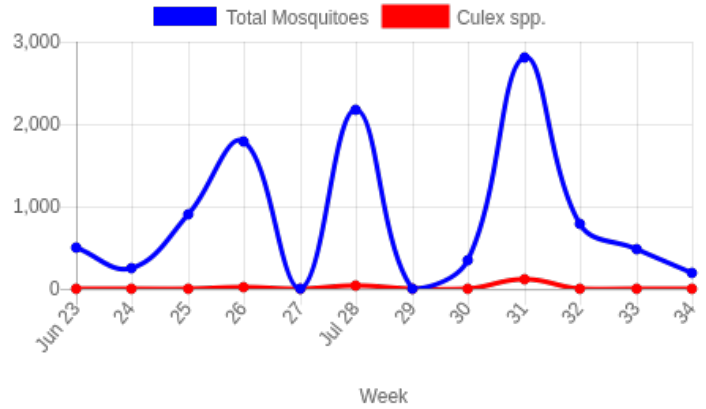
- *Aedes-Oc*
- *Anopheles*
- *Culex*
- *Culiseta*
- Other

BC-22

Season: 04/01/2024 - 10/01/2024
Trap Type: CDC Light Trap
Location: South Boulder Creek at Marshall Road
GPS: 39.959471872337424, -105.2323092520237

Total number of trap/nights set: 13.0
Total number of mosquitoes collected: 10,309.0
Average mosquitoes per trap/night: 793.0
Average Culex per trap/night: 17.5

Seasonality

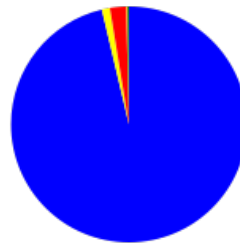


Species collected and abundance:

Species	Number	Percentage
<i>Aedes cinereus</i>	8.0	0.1%
<i>Aedes dorsalis</i>	11.0	0.1%
<i>Aedes fitchii</i>	6.0	0.1%
<i>Aedes hendersoni</i>	18.0	0.2%
<i>Aedes increpitus</i>	791.0	7.7%
<i>Aedes melanimon</i>	190.0	1.8%
<i>Aedes trivittatus</i>	112.0	1.1%
<i>Aedes vexans</i>	8,792.0	85.3%
<i>Anopheles freeborni</i>	116.0	1.1%
<i>Coquillettia perturbans</i>	19.0	0.2%
<i>Culex pipiens</i>	16.0	0.2%
<i>Culex salinarius</i>	12.0	0.1%
<i>Culex tarsalis</i>	200.0	1.9%
<i>Culiseta inornata</i>	18.0	0.2%

Genus Proportions:

Genus	Number	Percent of Total
<i>Aedes/Ochlerotatus</i>	9,928.0	96.3%
<i>Anopheles</i>	116.0	1.1%
<i>Culex</i>	228.0	2.2%
<i>Culiseta</i>	18.0	0.2%
Other	19.0	0.2%



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

BC-23

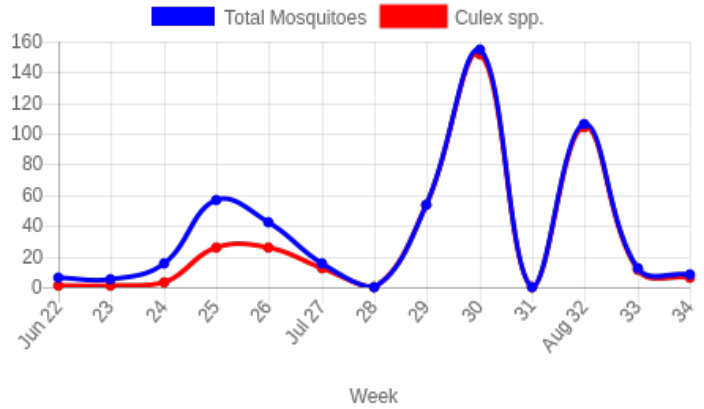
Season: 04/01/2024 - 10/01/2024
Trap Type: CDC Light Trap
Location: Louisville - Spanish Hills
GPS: 39.982665287675864, -105.17717007547617

Total number of trap/nights set: 13.0
Total number of mosquitoes collected: 475.0
Average mosquitoes per trap/night: 36.5
Average Culex per trap/night: 30.5

Species collected and abundance:

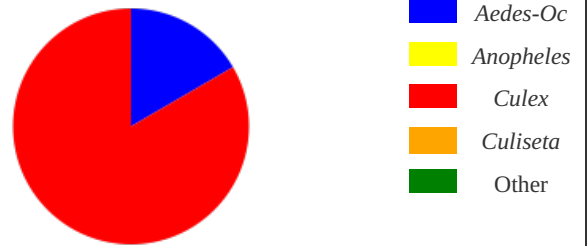
<i>Aedes dorsalis</i>	15.0	3.2%
<i>Aedes melanimon</i>	16.0	3.4%
<i>Aedes trivittatus</i>	2.0	0.4%
<i>Aedes vexans</i>	46.0	9.7%
<i>Culex pipiens</i>	28.0	5.9%
<i>Culex salinarius</i>	12.0	2.5%
<i>Culex tarsalis</i>	356.0	74.9%

Seasonality



Genus Proportions:

Genus	Number	Percent of Total
<i>Aedes/Ochlerotatus</i>	79.0	16.6%
<i>Anopheles</i>	0.0	0.0%
<i>Culex</i>	396.0	83.4%
<i>Culiseta</i>	0.0	0.0%
Other	0.0	0.0%



BC-24

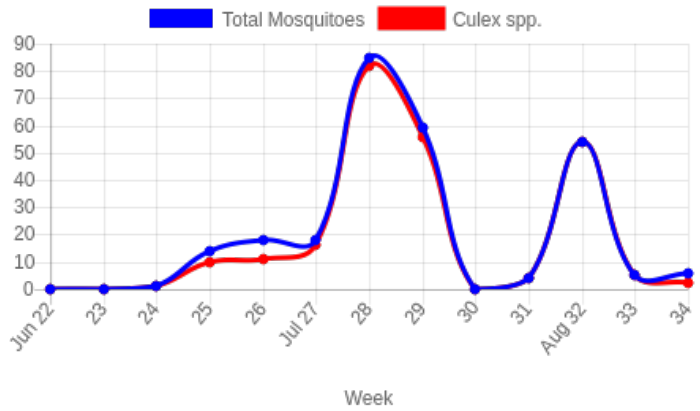
Season: 04/01/2024 - 10/01/2024
Trap Type: CDC Light Trap
Location: Louisville - Wewoka Dr
GPS: 39.99877317422283, -105.17178017646074

Total number of trap/nights set: 13.0
Total number of mosquitoes collected: 264.0
Average mosquitoes per trap/night: 20.3
Average Culex per trap/night: 18.5

Species collected and abundance:

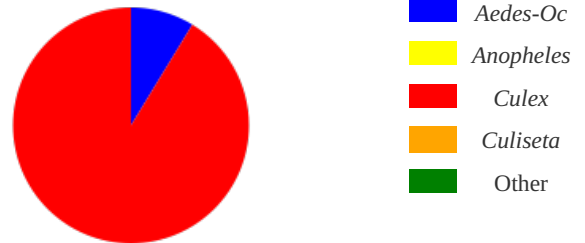
<i>Aedes dorsalis</i>	6.0	2.3%
<i>Aedes melanimon</i>	5.0	1.9%
<i>Aedes vexans</i>	12.0	4.5%
<i>Culex pipiens</i>	6.0	2.3%
<i>Culex salinarius</i>	2.0	0.8%
<i>Culex tarsalis</i>	233.0	88.3%

Seasonality



Genus Proportions:

Genus	Number	Percent of Total
<i>Aedes/Ochlerotatus</i>	23.0	8.7%
<i>Anopheles</i>	0.0	0.0%
<i>Culex</i>	241.0	91.3%
<i>Culiseta</i>	0.0	0.0%
Other	0.0	0.0%

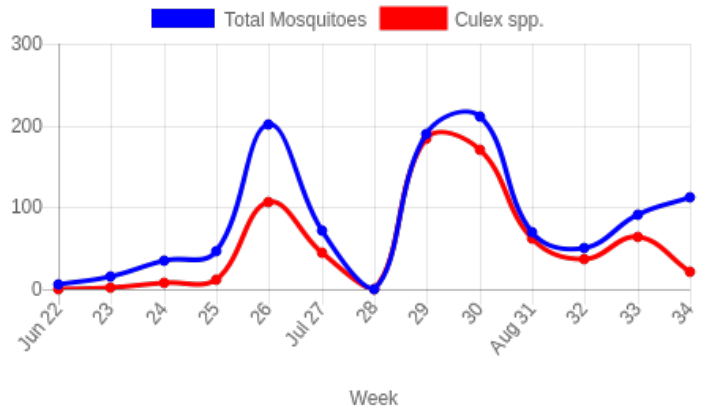


BC-30

Season: 04/01/2024 - 10/01/2024
Trap Type: CDC Light Trap
Location: Brownsville - Random Court
GPS: 40.0473653471887, -105.08967004716396

Total number of trap/nights set: 13.0
Total number of mosquitoes collected: 1,098.0
Average mosquitoes per trap/night: 84.5
Average Culex per trap/night: 54.4

Seasonality

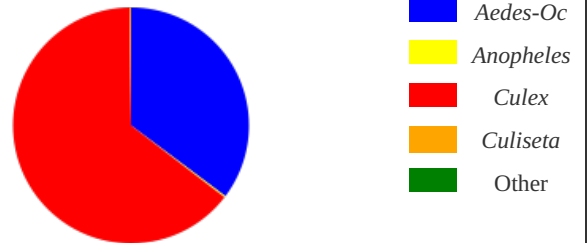


Species collected and abundance:

<i>Aedes dorsalis</i>	40.0	3.6%
<i>Aedes increpitus</i>	11.0	1.0%
<i>Aedes melanimon</i>	20.0	1.8%
<i>Aedes trivittatus</i>	2.0	0.2%
<i>Aedes vexans</i>	314.0	28.6%
<i>Anopheles freeborni</i>	2.0	0.2%
<i>Culex pipiens</i>	17.0	1.5%
<i>Culex salinarius</i>	3.0	0.3%
<i>Culex tarsalis</i>	687.0	62.6%
<i>Culiseta inornata</i>	2.0	0.2%

Genus Proportions:

Genus	Number	Percent of Total
<i>Aedes/Ochlerotatus</i>	387.0	35.2%
<i>Anopheles</i>	2.0	0.2%
<i>Culex</i>	707.0	64.4%
<i>Culiseta</i>	2.0	0.2%
Other	0.0	0.0%

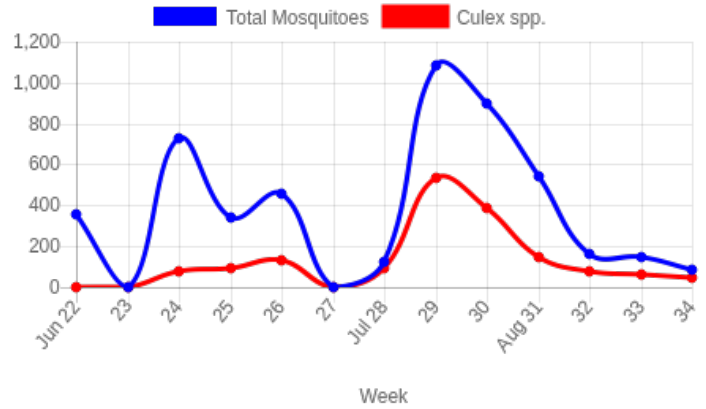


BC-31

Season: 04/01/2024 - 10/01/2024
Trap Type: CDC Light Trap
Location: Divide Reservoir
GPS: 40.239015327282374, -105.08392006158829

Total number of trap/nights set: 13.0
Total number of mosquitoes collected: 4,927.0
Average mosquitoes per trap/night: 379.0
Average Culex per trap/night: 125.8

Seasonality

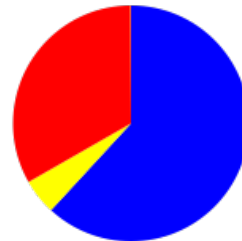


Species collected and abundance:

<i>Aedes dorsalis</i>	189.0	3.8%
<i>Aedes increpitus</i>	2.0	0.0%
<i>Aedes melanimon</i>	243.0	4.9%
<i>Aedes nigromaculis</i>	145.0	2.9%
<i>Aedes sollicitans</i>	1.0	0.0%
<i>Aedes trivittatus</i>	447.0	9.1%
<i>Aedes vexans</i>	2,020.0	41.0%
<i>Anopheles freeborni</i>	241.0	4.9%
<i>Culex pipiens</i>	22.0	0.4%
<i>Culex salinarius</i>	7.0	0.1%
<i>Culex tarsalis</i>	1,607.0	32.6%
<i>Culiseta inornata</i>	3.0	0.1%

Genus Proportions:

Genus	Number	Percent of Total
<i>Aedes/Ochlerotatus</i>	3,047.0	61.8%
<i>Anopheles</i>	241.0	4.9%
<i>Culex</i>	1,636.0	33.2%
<i>Culiseta</i>	3.0	0.1%
Other	0.0	0.0%



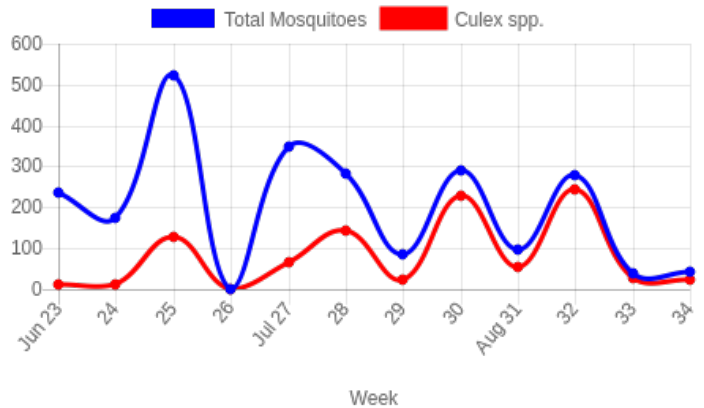
- *Aedes-Oc*
- *Anopheles*
- *Culex*
- *Culiseta*
- Other

BC-33

Season: 04/01/2024 - 10/01/2024
 Trap Type: CDC Light Trap
 Location: Lake Valley Estates
 GPS: 40.08967308743615, -105.26253003627062

Total number of trap/nights set: 13.0
 Total number of mosquitoes collected: 2,395.0
 Average mosquitoes per trap/night: 184.2
 Average Culex per trap/night: 73.5

Seasonality



Species collected and abundance:

Species	Number	Percentage
<i>Aedes cinereus</i>	5.0	0.2%
<i>Aedes increpitus</i>	333.0	13.9%
<i>Aedes melanimon</i>	33.0	1.4%
<i>Aedes trivittatus</i>	96.0	4.0%
<i>Aedes vexans</i>	755.0	31.5%
<i>Anopheles freeborni</i>	209.0	8.7%
<i>Coquillettidia perturbans</i>	4.0	0.2%
<i>Culex pipiens</i>	151.0	6.3%
<i>Culex salinarius</i>	12.0	0.5%
<i>Culex tarsalis</i>	793.0	33.1%
<i>Culiseta inornata</i>	4.0	0.2%

Genus Proportions:

Genus	Number	Percent of Total
<i>Aedes/Ochlerotatus</i>	1,222.0	51.0%
<i>Anopheles</i>	209.0	8.7%
<i>Culex</i>	956.0	39.9%
<i>Culiseta</i>	4.0	0.2%
Other	4.0	0.2%



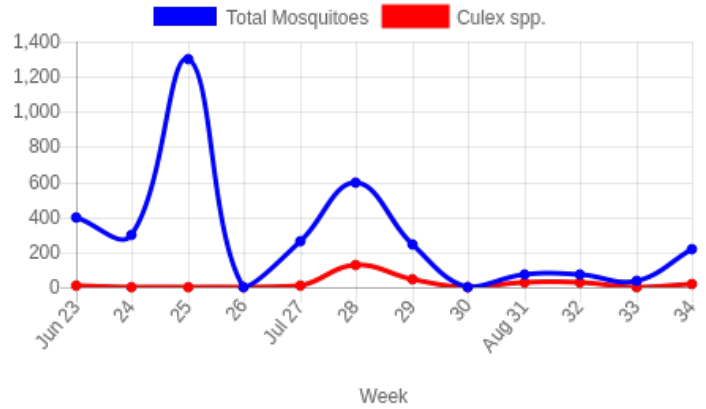
- *Aedes-Oc*
- *Anopheles*
- *Culex*
- *Culiseta*
- Other

BC-34

Season: 04/01/2024 - 10/01/2024
Trap Type: CDC Light Trap
Location: Cline Trout Farm
GPS: 40.03301536232354, -105.22272001951933

Total number of trap/nights set: 11.0
Total number of mosquitoes collected: 3,490.0
Average mosquitoes per trap/night: 317.3
Average Culex per trap/night: 22.5

Seasonality

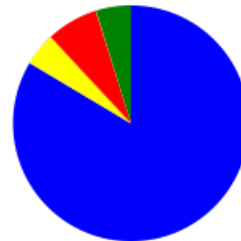


Species collected and abundance:

<i>Aedes dorsalis</i>	30.0	0.9%
<i>Aedes hendersoni</i>	2.0	0.1%
<i>Aedes increpitus</i>	568.0	16.3%
<i>Aedes melanimon</i>	30.0	0.9%
<i>Aedes trivittatus</i>	111.0	3.2%
<i>Aedes vexans</i>	2,175.0	62.3%
<i>Anopheles freeborni</i>	158.0	4.5%
<i>Coquillettidia perturbans</i>	166.0	4.8%
<i>Culex pipiens</i>	26.0	0.7%
<i>Culex salinarius</i>	3.0	0.1%
<i>Culex tarsalis</i>	219.0	6.3%
<i>Culiseta inornata</i>	2.0	0.1%

Genus Proportions:

Genus	Number	Percent of Total
<i>Aedes/Ochlerotatus</i>	2,916.0	83.6%
<i>Anopheles</i>	158.0	4.5%
<i>Culex</i>	248.0	7.1%
<i>Culiseta</i>	2.0	0.1%
Other	166.0	4.8%



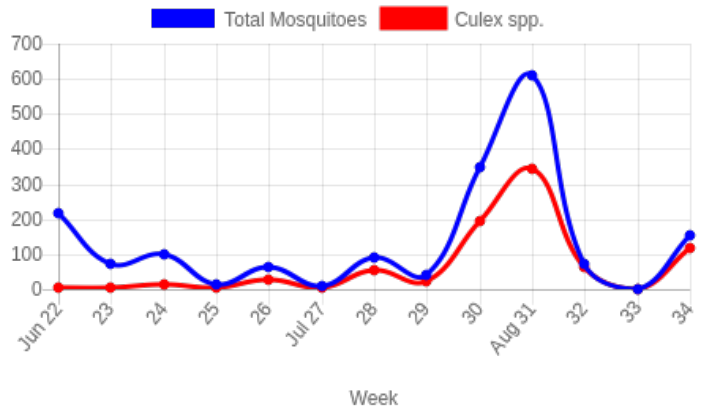
- *Aedes-Oc*
- *Anopheles*
- *Culex*
- *Culiseta*
- Other

BC-36

Season: 04/01/2024 - 10/01/2024
Trap Type: CDC Light Trap
Location: Yellowstone Road
GPS: 40.24682294672365, -105.15228018164635

Total number of trap/nights set: 13.0
Total number of mosquitoes collected: 1,788.0
Average mosquitoes per trap/night: 137.5
Average Culex per trap/night: 65.2

Seasonality

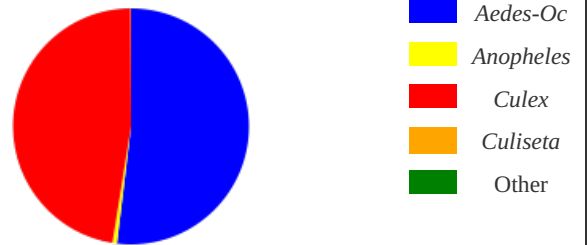


Species collected and abundance:

<i>Aedes dorsalis</i>	26.0	1.5%
<i>Aedes increpitus</i>	20.0	1.1%
<i>Aedes melanimon</i>	20.0	1.1%
<i>Aedes trivittatus</i>	379.0	21.2%
<i>Aedes vexans</i>	483.0	27.0%
<i>Anopheles freeborni</i>	11.0	0.6%
<i>Culex pipiens</i>	44.0	2.5%
<i>Culex tarsalis</i>	804.0	45.0%
<i>Culiseta inornata</i>	1.0	0.1%

Genus Proportions:

Genus	Number	Percent of Total
<i>Aedes/Ochlerotatus</i>	928.0	51.9%
<i>Anopheles</i>	11.0	0.6%
<i>Culex</i>	848.0	47.4%
<i>Culiseta</i>	1.0	0.1%
Other	0.0	0.0%

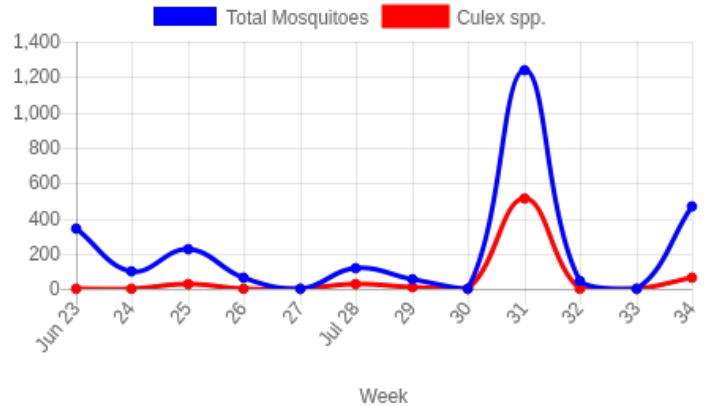


BC-37

Season: 04/01/2024 - 10/01/2024
Trap Type: CDC Light Trap
Location: Burch Reservoir
GPS: 40.20255779253474, -105.18225990235806

Total number of trap/nights set: 12.0
Total number of mosquitoes collected: 2,679.0
Average mosquitoes per trap/night: 223.3
Average Culex per trap/night: 56.8

Seasonality

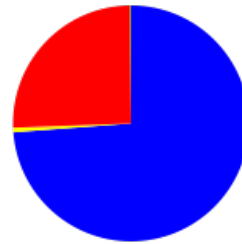


Species collected and abundance:

<i>Aedes dorsalis</i>	2.0	0.1%
<i>Aedes hendersoni</i>	12.0	0.4%
<i>Aedes increpitus</i>	51.0	1.9%
<i>Aedes melanimon</i>	32.0	1.2%
<i>Aedes trivittatus</i>	323.0	12.1%
<i>Aedes vexans</i>	1,557.0	58.1%
<i>Anopheles freeborni</i>	17.0	0.6%
<i>Coquillettidia perturbans</i>	2.0	0.1%
<i>Culex pipiens</i>	113.0	4.2%
<i>Culex salinarius</i>	5.0	0.2%
<i>Culex tarsalis</i>	563.0	21.0%
<i>Culiseta inornata</i>	2.0	0.1%

Genus Proportions:

Genus	Number	Percent of Total
<i>Aedes/Ochlerotatus</i>	1,977.0	73.8%
<i>Anopheles</i>	17.0	0.6%
<i>Culex</i>	681.0	25.4%
<i>Culiseta</i>	2.0	0.1%
Other	2.0	0.1%



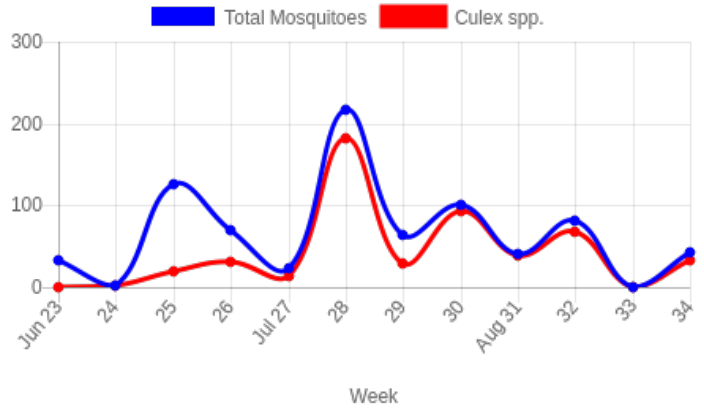
- *Aedes-Oc*
- *Anopheles*
- *Culex*
- *Culiseta*
- Other

BC-39

Season: 04/01/2024 - 10/01/2024
Trap Type: CDC Light Trap
Location: Heatherwood
GPS: 40.06216547329052, -105.16926996409893

Total number of trap/nights set: 13.0
Total number of mosquitoes collected: 798.0
Average mosquitoes per trap/night: 61.4
Average Culex per trap/night: 38.8

Seasonality

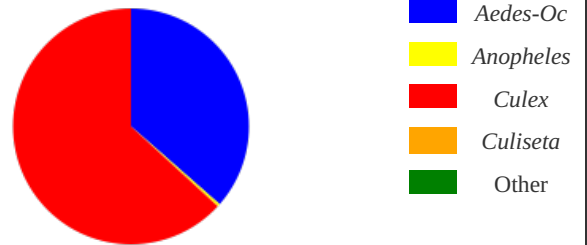


Species collected and abundance:

<i>Aedes dorsalis</i>	42.0	5.3%
<i>Aedes increpitus</i>	50.0	6.3%
<i>Aedes melanimon</i>	65.0	8.1%
<i>Aedes nigromaculis</i>	1.0	0.1%
<i>Aedes trivittatus</i>	15.0	1.9%
<i>Aedes vexans</i>	118.0	14.8%
<i>Anopheles freeborni</i>	3.0	0.4%
<i>Culex pipiens</i>	48.0	6.0%
<i>Culex tarsalis</i>	456.0	57.1%

Genus Proportions:

Genus	Number	Percent of Total
<i>Aedes/Ochlerotatus</i>	291.0	36.5%
<i>Anopheles</i>	3.0	0.4%
<i>Culex</i>	504.0	63.2%
<i>Culiseta</i>	0.0	0.0%
Other	0.0	0.0%

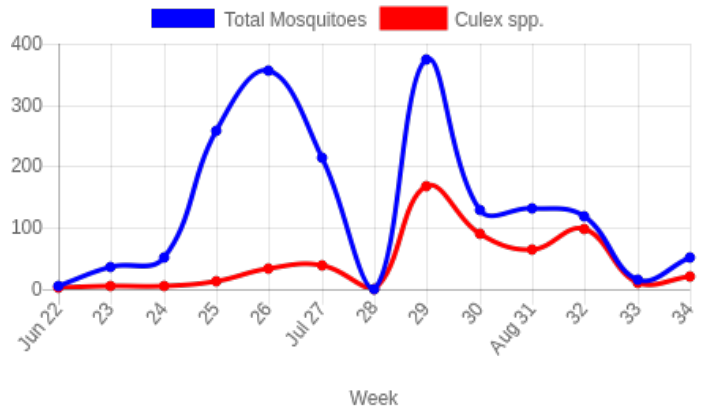


BC-40

Season: 04/01/2024 - 10/01/2024
Trap Type: CDC Light Trap
Location: Chance Acres
GPS: 40.15967302342349, -105.20593006163836

Total number of trap/nights set: 13.0
Total number of mosquitoes collected: 1,736.0
Average mosquitoes per trap/night: 133.5
Average Culex per trap/night: 41.6

Seasonality

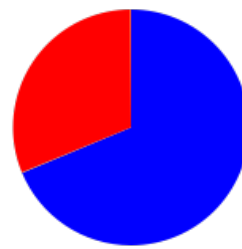


Species collected and abundance:

<i>Aedes cinereus</i>	1.0	0.1%
<i>Aedes dorsalis</i>	49.0	2.8%
<i>Aedes increpitus</i>	23.0	1.3%
<i>Aedes melanimon</i>	105.0	6.0%
<i>Aedes nigromaculis</i>	2.0	0.1%
<i>Aedes trivittatus</i>	445.0	25.6%
<i>Aedes vexans</i>	568.0	32.7%
<i>Anopheles freeborni</i>	1.0	0.1%
<i>Culex pipiens</i>	7.0	0.4%
<i>Culex tarsalis</i>	534.0	30.8%
<i>Culiseta inornata</i>	1.0	0.1%

Genus Proportions:

Genus	Number	Percent of Total
<i>Aedes/Ochlerotatus</i>	1,193.0	68.7%
<i>Anopheles</i>	1.0	0.1%
<i>Culex</i>	541.0	31.2%
<i>Culiseta</i>	1.0	0.1%
Other	0.0	0.0%



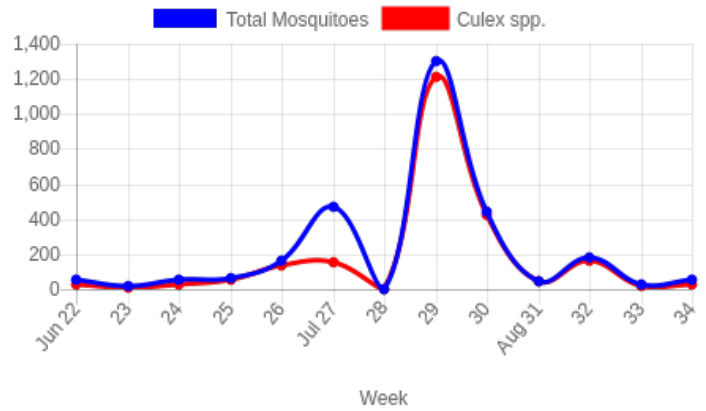
- *Aedes-Oc*
- *Anopheles*
- *Culex*
- *Culiseta*
- Other

BC-47

Season: 04/01/2024 - 10/01/2024
Trap Type: CDC Light Trap
Location: Baseline Heights - Chinook Way
GPS: 40.009527545273954, -105.19709721207619

Total number of trap/nights set: 13.0
Total number of mosquitoes collected: 2,854.0
Average mosquitoes per trap/night: 219.5
Average Culex per trap/night: 175.1

Seasonality

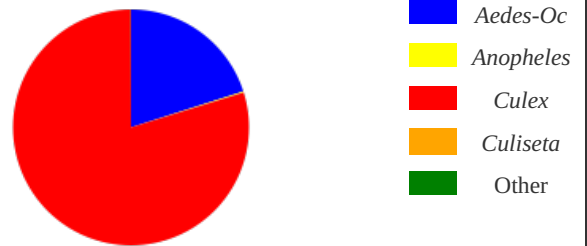


Species collected and abundance:

<i>Aedes dorsalis</i>	138.0	4.8%
<i>Aedes increpitus</i>	5.0	0.2%
<i>Aedes melanimon</i>	42.0	1.5%
<i>Aedes nigromaculis</i>	1.0	0.0%
<i>Aedes trivittatus</i>	4.0	0.1%
<i>Aedes vexans</i>	383.0	13.4%
<i>Anopheles freeborni</i>	4.0	0.1%
<i>Coquillettidia perturbans</i>	1.0	0.0%
<i>Culex pipiens</i>	213.0	7.5%
<i>Culex salinarius</i>	81.0	2.8%
<i>Culex tarsalis</i>	1,982.0	69.4%

Genus Proportions:

Genus	Number	Percent of Total
<i>Aedes/Ochlerotatus</i>	573.0	20.1%
<i>Anopheles</i>	4.0	0.1%
<i>Culex</i>	2,276.0	79.7%
<i>Culiseta</i>	0.0	0.0%
Other	1.0	0.0%

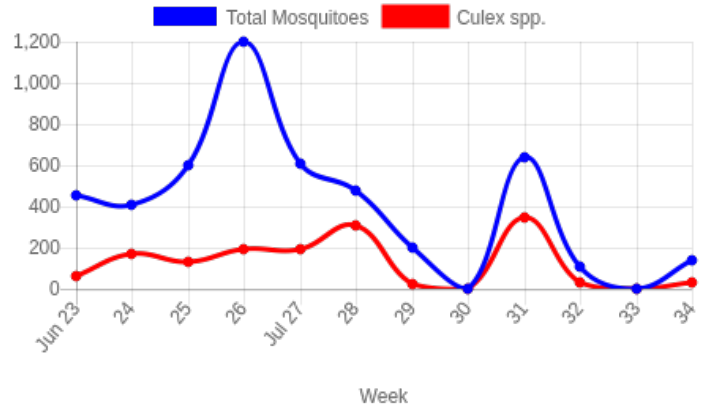


BC-49

Season: 04/01/2024 - 10/01/2024
 Trap Type: CDC Light Trap
 Location: Burke Lake
 GPS: 40.01637478909902, -105.14929756522179

Total number of trap/nights set: 13.0
 Total number of mosquitoes collected: 4,835.0
 Average mosquitoes per trap/night: 371.9
 Average Culex per trap/night: 116.4

Seasonality



Species collected and abundance:

<i>Aedes dorsalis</i>	8.0	0.2%
<i>Aedes increpitus</i>	575.0	11.9%
<i>Aedes melanimon</i>	138.0	2.9%
<i>Aedes trivittatus</i>	78.0	1.6%
<i>Aedes vexans</i>	854.0	17.7%
<i>Anopheles freeborni</i>	1,648.0	34.1%
<i>Coquillettidia perturbans</i>	10.0	0.2%
<i>Culex pipiens</i>	12.0	0.2%
<i>Culex salinarius</i>	1.0	0.0%
<i>Culex tarsalis</i>	1,500.0	31.0%
<i>Culiseta inornata</i>	11.0	0.2%

Genus Proportions:

Genus	Number	Percent of Total
<i>Aedes/Ochlerotatus</i>	1,653.0	34.2%
<i>Anopheles</i>	1,648.0	34.1%
<i>Culex</i>	1,513.0	31.3%
<i>Culiseta</i>	11.0	0.2%
Other	10.0	0.2%



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

Appendix B: Adulticide Applications

Ground Adulticide Applications

Start Date: 04/01/2024 **End Date:** 10/01/2024

Boulder County Mosquito Control District

Month	Date	Municipality	Chemical	Mix Ratio	Trip Miles	Spray Miles	Spray Acres	Gallons Sprayed
BC ULV 61st to 75th & Valmont Rd Applications								
July 2024	07/03/2024		Aqua Perm-X UL 30-30 (General Use) (89459-76)	1:5	6.3	5.0	180.0	1.4
	07/25/2024		Aqua Perm-X UL 30-30 (General Use) (89459-76)	1:5	6.3	4.8	175.3	1.4
	07/31/2024		Aqua Perm-X UL 30-30 (General Use) (89459-76)	1:5	6.2	5.0	182.2	1.4
August 2024	08/07/2024		Aqua Perm-X UL 30-30 (General Use) (89459-76)	1:5	6.1	5.0	180.4	1.4
<i>Total Aqua Perm-X UL 30-30 (General Use) Applied:</i>								5.6
BC ULV 61st to 75th & Valmont Rd Totals:					24.8	19.7	717.8	5.6
BC ULV Boulder Hills Applications								
June 2024	06/19/2024		Aqua Perm-X UL 30-30 (General Use) (89459-76)	1:5	4.2	3.4	123.3	1.0
	06/26/2024		Aqua Perm-X UL 30-30 (General Use) (89459-76)	1:5	4.2	3.6	130.9	1.0
July 2024	07/10/2024		Aqua Perm-X UL 30-30 (General Use) (89459-76)	1:5	5.1	4.1	148.0	1.1
August 2024	08/14/2024		Aqua Perm-X UL 30-30 (General Use) (89459-76)	1:5	5.1	4.0	143.6	1.2
<i>Total Aqua Perm-X UL 30-30 (General Use) Applied:</i>								4.3
BC ULV Boulder Hills Totals:					18.5	15.0	545.8	4.3

Month	Date	Municipality	Chemical	Mix Ratio	Trip Miles	Spray Miles	Spray Acres	Gallons Sprayed
BC ULV Brigadoon Glen/Rangeview/Oriole Applications								
June 2024	06/19/2024		Aqua Perm-X UL 30-30 (General Use) (89459-76)	1:5	10.0	4.5	162.5	1.3
<i>Total Aqua Perm-X UL 30-30 (General Use) Applied:</i>								<i>1.3</i>
BC ULV Brigadoon Glen/Rangeview/Oriole Totals:					10.0	4.5	162.5	1.3
BC ULV Brownsville/Canfield Applications								
July 2024	07/17/2024		Aqua Perm-X UL 30-30 (General Use) (89459-76)	1:5	9.2	6.0	218.9	1.7
	07/25/2024		Aqua Perm-X UL 30-30 (General Use) (89459-76)	1:5	10.9	7.2	262.2	2.1
<i>Total Aqua Perm-X UL 30-30 (General Use) Applied:</i>								<i>3.8</i>
BC ULV Brownsville/Canfield Totals:					20.2	13.2	481.1	3.8
BC ULV Divide Reservoir Applications								
July 2024	07/03/2024		Aqua Perm-X UL 30-30 (General Use) (89459-76)	1:5	1.1	1.0	36.7	0.3
	07/17/2024		Aqua Perm-X UL 30-30 (General Use) (89459-76)	1:5	1.1	1.1	38.5	0.4
	07/24/2024		Aqua Perm-X UL 30-30 (General Use) (89459-76)	1:5	1.1	1.1	38.2	0.3
	07/31/2024		Aqua Perm-X UL 30-30 (General Use) (89459-76)	1:5	1.1	1.1	38.9	0.3
<i>Total Aqua Perm-X UL 30-30 (General Use) Applied:</i>								<i>1.3</i>
BC ULV Divide Reservoir Totals:					4.3	4.2	152.4	1.3
BC ULV Fairview Estates/Indian Hills Applications								
August 2024	08/01/2024		Aqua Perm-X UL 30-30 (General Use) (89459-76)	1:5	4.3	3.1	113.4	0.9

Month	Date	Municipality	Chemical	Mix Ratio	Trip Miles	Spray Miles	Spray Acres	Gallons Sprayed			
			<i>Total Aqua Perm-X UL 30-30 (General Use) Applied:</i>					0.9			
			<i>BC ULV Fairview Estates/Indian Hills Totals:</i>					4.3	3.1	113.4	0.9
BC ULV Gunbarrel Estates Applications											
July 2024	07/17/2024		Aqua Perm-X UL 30-30 (General Use) (89459-76)	1:5	5.7	4.1	148.4	1.1			
			<i>Total Aqua Perm-X UL 30-30 (General Use) Applied:</i>					1.1			
			<i>BC ULV Gunbarrel Estates Totals:</i>					5.7	4.1	148.4	1.1
BC ULV Gunbarrel Green Applications											
July 2024	07/17/2024		Aqua Perm-X UL 30-30 (General Use) (89459-76)	1:5	6.7	4.9	177.8	1.4			
	07/31/2024		Aqua Perm-X UL 30-30 (General Use) (89459-76)	1:5	6.5	4.9	178.9	1.5			
			<i>Total Aqua Perm-X UL 30-30 (General Use) Applied:</i>					2.8			
			<i>BC ULV Gunbarrel Green Totals:</i>					13.2	9.8	356.7	2.8
BC ULV Heatherwood Applications											
July 2024	07/18/2024		Aqua Perm-X UL 30-30 (General Use) (89459-76)	1:5	0.9	0.7	26.9	0.4			
	07/18/2024		Aqua Perm-X UL 30-30 (General Use) (89459-76)	1:5	3.2	2.8	100.0	0.8			
			<i>Total Aqua Perm-X UL 30-30 (General Use) Applied:</i>					1.2			
			<i>BC ULV Heatherwood Totals:</i>					4.2	3.5	126.9	1.2
BC ULV Hillcrest Heights Applications											
July 2024	07/17/2024		Aqua Perm-X UL 30-30 (General Use) (89459-76)	1:5	3.9	2.6	93.1	1.3			

Month	Date	Municipality	Chemical	Mix Ratio	Trip Miles	Spray Miles	Spray Acres	Gallons Sprayed
August 2024	07/31/2024		Aqua Perm-X UL 30-30 (General Use) (89459-76)	1:5	4.0	2.6	92.7	0.7
	08/07/2024		Aqua Perm-X UL 30-30 (General Use) (89459-76)	1:5	3.8	2.6	94.5	0.7
	08/14/2024		Aqua Perm-X UL 30-30 (General Use) (89459-76)	1:5	3.9	2.6	94.2	0.8
<i>Total Aqua Perm-X UL 30-30 (General Use) Applied:</i>								3.5
BC ULV Hillcrest Heights Totals:					15.5	10.3	374.5	3.5

BC ULV Hillcrest Heights/Gaynor Lake Applications								
July 2024	07/24/2024		Aqua Perm-X UL 30-30 (General Use) (89459-76)	1:5	3.8	2.6	93.8	0.7
<i>Total Aqua Perm-X UL 30-30 (General Use) Applied:</i>								0.7
BC ULV Hillcrest Heights/Gaynor Lake Totals:					3.8	2.6	93.8	0.7

BC ULV Hygiene/Hygiene Heights Applications								
July 2024	07/31/2024		Aqua Perm-X UL 30-30 (General Use) (89459-76)	1:5	4.7	3.3	118.9	0.9
August 2024	08/07/2024		Aqua Perm-X UL 30-30 (General Use) (89459-76)	1:5	4.7	3.3	119.6	1.0
	08/21/2024		Aqua Perm-X UL 30-30 (General Use) (89459-76)	1:5	4.7	3.2	117.1	0.9
<i>Total Aqua Perm-X UL 30-30 (General Use) Applied:</i>								2.9
BC ULV Hygiene/Hygiene Heights Totals:					14.1	9.8	355.6	2.9

BC ULV Marshall Road Applications								
June 2024	06/26/2024		Aqua Perm-X UL 30-30 (General Use) (89459-76)	1:5	0.9	0.9	33.8	0.3
July 2024	07/03/2024		Aqua Perm-X UL 30-30 (General Use) (89459-76)	1:5	1.0	0.9	33.8	0.3

Month	Date	Municipality	Chemical	Mix Ratio	Trip Miles	Spray Miles	Spray Acres	Gallons Sprayed
August 2024	08/21/2024		Aqua Perm-X UL 30-30 (General Use) (89459-76)	1:5	1.0	1.0	34.5	0.3
<i>Total Aqua Perm-X UL 30-30 (General Use) Applied:</i>								<i>0.8</i>
BC ULV Marshall Road Totals:					2.8	2.8	102.2	0.8
BC ULV Niwot North Applications								
July 2024	07/24/2024		Aqua Perm-X UL 30-30 (General Use) (89459-76)	1:5	7.6	5.2	188.7	1.5
<i>Total Aqua Perm-X UL 30-30 (General Use) Applied:</i>								<i>1.5</i>
BC ULV Niwot North Totals:					7.6	5.2	188.7	1.5
BC ULV Niwot South Applications								
July 2024	07/24/2024		Aqua Perm-X UL 30-30 (General Use) (89459-76)	1:5	10.3	6.7	243.6	1.9
<i>Total Aqua Perm-X UL 30-30 (General Use) Applied:</i>								<i>1.9</i>
BC ULV Niwot South Totals:					10.3	6.7	243.6	1.9
BC ULV North Rim/Lake Valley Estates Applications								
June 2024	06/26/2024		Aqua Perm-X UL 30-30 (General Use) (89459-76)	1:5	7.6	4.1	149.8	1.2
July 2024	07/17/2024		Aqua Perm-X UL 30-30 (General Use) (89459-76)	1:5	7.6	4.3	156.4	1.2
	07/17/2024		Aqua Perm-X UL 30-30 (General Use) (89459-76)	1:5	0.9	0.7	26.9	0.4
	07/31/2024		Aqua Perm-X UL 30-30 (General Use) (89459-76)	1:5	7.7	4.1	149.8	1.2
August 2024	08/14/2024		Aqua Perm-X UL 30-30 (General Use) (89459-76)	1:5	7.6	4.2	151.6	1.2

Vector Disease Control International
7230 W 118th Pl. Unit E
Broomfield, CO 80020

Month	Date	Municipality	Chemical	Mix Ratio	Trip Miles	Spray Miles	Spray Acres	Gallons Sprayed
<i>Total Aqua Perm-X UL 30-30 (General Use) Applied:</i>								5.3
BC ULV North Rim/Lake Valley Estates Totals:					31.4	17.5	634.5	5.3
BC ULV Orange Orchard/Pleasant Ridge Applications								
July 2024	07/31/2024		Aqua Perm-X UL 30-30 (General Use) (89459-76)	1:5	2.5	1.9	68.4	0.5
August 2024	08/14/2024		Aqua Perm-X UL 30-30 (General Use) (89459-76)	1:5	2.6	1.9	68.0	0.5
<i>Total Aqua Perm-X UL 30-30 (General Use) Applied:</i>								1.1
BC ULV Orange Orchard/Pleasant Ridge Totals:					5.1	3.8	136.4	1.1
BC ULV Park Lake Applications								
June 2024	06/19/2024		Aqua Perm-X UL 30-30 (General Use) (89459-76)	1:5	2.3	1.5	53.5	0.4
	06/26/2024		Aqua Perm-X UL 30-30 (General Use) (89459-76)	1:5	2.3	1.3	48.0	0.4
July 2024	07/03/2024		Aqua Perm-X UL 30-30 (General Use) (89459-76)	1:5	2.3	1.5	54.9	0.4
	07/10/2024		Aqua Perm-X UL 30-30 (General Use) (89459-76)	1:5	2.3	1.4	49.1	0.4
	07/17/2024		Aqua Perm-X UL 30-30 (General Use) (89459-76)	1:5	2.3	1.4	51.3	0.4
	07/31/2024		Aqua Perm-X UL 30-30 (General Use) (89459-76)	1:5	2.3	1.5	53.1	0.4
<i>Total Aqua Perm-X UL 30-30 (General Use) Applied:</i>								2.4
BC ULV Park Lake Totals:					13.8	8.5	309.8	2.4
BC ULV Red Fox Hills Applications								

Month	Date	Municipality	Chemical	Mix Ratio	Trip Miles	Spray Miles	Spray Acres	Gallons Sprayed
July 2024	07/17/2024		Aqua Perm-X UL 30-30 (General Use) (89459-76)	1:5	1.9	1.1	40.0	0.3
<i>Total Aqua Perm-X UL 30-30 (General Use) Applied:</i>								<i>0.3</i>
BC ULV Red Fox Hills Totals:					1.9	1.1	40.0	0.3

BC ULV Red Fox Hills/Twin Lakes Applications								
June 2024	06/26/2024		Aqua Perm-X UL 30-30 (General Use) (89459-76)	1:5	3.8	2.1	77.5	0.6
July 2024	07/31/2024		Aqua Perm-X UL 30-30 (General Use) (89459-76)	1:5	3.4	2.3	81.8	0.6
August 2024	08/07/2024		Aqua Perm-X UL 30-30 (General Use) (89459-76)	1:5	3.8	2.1	77.1	0.6
	08/14/2024		Aqua Perm-X UL 30-30 (General Use) (89459-76)	1:5	3.8	2.1	76.4	0.6
<i>Total Aqua Perm-X UL 30-30 (General Use) Applied:</i>								<i>2.5</i>
BC ULV Red Fox Hills/Twin Lakes Totals:					14.7	8.6	312.7	2.5

BC ULV Sombrero Ranch/Ridglea Hills/Crestmoor Applications								
July 2024	07/10/2024		Aqua Perm-X UL 30-30 (General Use) (89459-76)	1:5	7.1	5.6	203.6	1.6
	07/17/2024		Aqua Perm-X UL 30-30 (General Use) (89459-76)	1:5	7.2	4.8	174.9	1.4
	07/24/2024		Aqua Perm-X UL 30-30 (General Use) (89459-76)	1:5	7.5	5.7	205.8	1.6
	07/31/2024		Aqua Perm-X UL 30-30 (General Use) (89459-76)	1:5	7.9	5.1	185.4	1.4
August 2024	08/14/2024		Aqua Perm-X UL 30-30 (General Use) (89459-76)	1:5	7.1	5.7	206.5	1.6

Month	Date	Municipality	Chemical	Mix Ratio	Trip Miles	Spray Miles	Spray Acres	Gallons Sprayed
	08/14/2024		Aqua Perm-X UL 30-30 (General Use) (89459-76)	1:5	1.2	1.1	39.6	0.3
<i>Total Aqua Perm-X UL 30-30 (General Use) Applied:</i>								<i>7.9</i>
BC ULV Sombrero Ranch/Ridglea Hills/Crestmoor Totals:					38.0	27.9	1,015.9	7.9

BC ULV South Meadows Applications								
July 2024	07/17/2024		Aqua Perm-X UL 30-30 (General Use) (89459-76)	1:5	3.0	2.0	71.3	0.5
	07/31/2024		Aqua Perm-X UL 30-30 (General Use) (89459-76)	1:5	3.0	2.0	70.9	0.6
<i>Total Aqua Perm-X UL 30-30 (General Use) Applied:</i>								<i>1.1</i>
BC ULV South Meadows Totals:					6.0	3.9	142.2	1.1

BC ULV Stonehenge Applications								
August 2024	08/28/2024		Aqua Perm-X UL 30-30 (General Use) (89459-76)	1:5	1.1	1.0	37.5	0.3
<i>Total Aqua Perm-X UL 30-30 (General Use) Applied:</i>								<i>0.3</i>
BC ULV Stonehenge Totals:					1.1	1.0	37.5	0.3

BC ULV Willow Glen/Fox Run Applications								
June 2024	06/19/2024		Aqua Perm-X UL 30-30 (General Use) (89459-76)	1:5	1.8	1.2	43.3	0.3
	06/26/2024		Aqua Perm-X UL 30-30 (General Use) (89459-76)	1:5	1.6	1.2	43.3	0.3
July 2024	07/03/2024		Aqua Perm-X UL 30-30 (General Use) (89459-76)	1:5	1.7	1.1	40.4	0.3
	07/10/2024		Aqua Perm-X UL 30-30 (General Use) (89459-76)	1:5	1.7	1.2	42.9	0.3
	07/17/2024		Aqua Perm-X UL 30-30 (General Use) (89459-76)	1:5	1.7	1.1	41.1	0.4

Month	Date	Municipality	Chemical	Mix Ratio	Trip Miles	Spray Miles	Spray Acres	Gallons Sprayed
	07/31/2024		Aqua Perm-X UL 30-30 (General Use) (89459-76)	1:5	1.7	1.1	41.5	0.3
<i>Total Aqua Perm-X UL 30-30 (General Use) Applied:</i>								2.0
BC ULV Willow Glen/Fox Run Totals:					10.2	6.9	252.3	2.0
BC ULV Woodbourne Hollow/Rustic Knolls - float Applications								
July 2024	07/03/2024		Aqua Perm-X UL 30-30 (General Use) (89459-76)	1:5	0.8	0.6	22.5	0.2
<i>Total Aqua Perm-X UL 30-30 (General Use) Applied:</i>								0.2
BC ULV Woodbourne Hollow/Rustic Knolls - float Totals:					0.8	0.6	22.5	0.2
BC ULV Yellowstone Road Applications								
July 2024	07/31/2024		Aqua Perm-X UL 30-30 (General Use) (89459-76)	1:5	6.9	5.2	188.0	1.4
August 2024	08/07/2024		Aqua Perm-X UL 30-30 (General Use) (89459-76)	1:5	6.8	4.9	179.6	1.4
<i>Total Aqua Perm-X UL 30-30 (General Use) Applied:</i>								2.9
BC ULV Yellowstone Road Totals:					13.6	10.1	367.6	2.9
Grand Totals:					296.0	204.5	7,434.6	59.6

Appendix C: Service Requests



Service Request Report

Start Date: 04/01/2024 **End Date:** 10/01/2024

Date	Contract	Locality	Contact Info
2024-06-03	Boulder County Mosquito Control District	BC-01 Louisville/Baseline/S Boulder Creek	Jan Jackson 6000 Whaley Dr Boulder
<p>Call Description/Instructions: Contact left voice-mail asking about treatment schedule- has ponds, standing water, abandoned waterfall - lcalled back and left voice-mail with info Toured entire property, checked all 4 ponds only 1 breeding</p> <p>Resolution: No Action Required</p>			
2024-06-04	Boulder County Mosquito Control District	BC-03 Gunbarrel	Bob Poley 6033 Jay Road Boulder
<p>Call Description/Instructions: Left voicemail stating he and neighbor at 6077 Jay Rd are seeing lots of mosquitoes. Did not leave call back number County not spraying this week, tech in area</p> <p>Resolution: No Action Required</p>			
2024-06-04	Boulder County Mosquito Control District	BC-01 Louisville/Baseline/S Boulder Creek	Debra Rahm 4253 Prado Dr Boulder
<p>Call Description/Instructions: Contact left vm - concerned about standing water in nearby construction area, ditch in front of house, and pond across street- did not leave phone number. Left email address debra.rahm@me.com Resolved 6/6 see other entry</p> <p>Resolution: No Action Required</p>			
2024-06-04	Boulder County Mosquito Control District	BC-01 Louisville/Baseline/S Boulder Creek	Debra Rahm 4253 Prado Drive Boulder
<p>Call Description/Instructions: Contact left voicemail with concerns about standing water in construction zone 2 houses away and creek @ Prado Dr and La Mesa Dr. - Called back and left voicemail stating tech will be out this week Left door tag and voice-mail to let her know the blocked drainage was treated. Blocked drainage at Mesa & Prado. Stages 2-4. Vectobac G 10 Oz. Predators present. Did not find any larvae at construction site.</p> <p>Resolution: Pesticide Application</p>			
2024-06-04	Boulder County Mosquito Control District	BC-01 Louisville/Baseline/S Boulder Creek	Lauren Shaver n/a Boulder

Date	Contract	Locality	Contact Info
		Call Description/Instructions: Left voicemail that wants to know how to request treatment in area per what she pays in boulder county taxes Called back 2x, just rings	
		Resolution: No Action Required	
2024-06-04	Boulder County Mosquito Control District		Sam Violette 12983 Woodridge Dr Longmont
		Call Description/Instructions: Concerns about high number of mosquitos. Advised we have techs working in Longmont and Boulder County setting traps and will spray if traps are high. He stated his neighborhood is gated and does not get sprayed. He will discuss with HOA Techs in area	
		Resolution: No Action Required	
2024-06-05	Boulder County Mosquito Control District	BC-01 Louisville/Baseline/S Boulder Creek	Debra Rahm 4253 Prado Dr Boulder
		Call Description/Instructions: Contact left voicemail that when tech comes out please check standing water at construction site - some but not all has been drained. Also stated there is a blocked drainage area at the corner of prado and La Mesa - did not leave ph#	
		Resolution: No Action Required	
2024-06-10	Boulder County Mosquito Control District	BC-05 Orange Orchard/Lake Valley	Charles Branley Jay Rd and 30th St Boulder
		Call Description/Instructions: Contact asked for spray schedule north of Jay Rd and 30th st in the Orange Orchard neighborhood- Advised we have trap @ Orange Orchard we check weekly and Boulder County determines when we spray- he asked who to contact at Boulder County about this if he wants to - advised dept. of Public Health County not spraying, tech in area	
		Resolution: No Action Required	
2024-06-10	Boulder County Mosquito Control District	BC-05 Orange Orchard/Lake Valley	Cristale Divette 7484 N 49th street Boulder
		Call Description/Instructions: contact left vm no address except lives on N 49th street between Boulder and Longmont and is interested in services - called back left voicemail that if she provides address we can send tech Talked to owner and got an accurate address and gate code ended up treating 3 locations on the property	
		Resolution: No Action Required	
2024-06-10	Boulder County Mosquito Control District	BC-06 Niwot/Brigadoon Glen	Crystal Divette 7484 N 49th Street Longmont

Date	Contract	Locality	Contact Info
		Call	Contact concerned about sections of property with marshy ground water- lots of mosquitoes- called back and left voicemail that will send tech
		Description/Instructions:	Checked and treated sites in area 6/10
		Resolution:	No Action Required
2024-06-10	Boulder County Mosquito Control District	BC-10 Hygiene Floater Zone	Mary Dobbs 5475 Ute Hwy Longmont
		Call	Contact left voice-mail requesting treatment of stock pond in pasture on Montgomery Farm. Called back and left vm that will have someone out this wk
		Description/Instructions:	Talked with Mary and checked pond, not currently breeding
		Resolution:	No Action Required
2024-06-10	Boulder County Mosquito Control District	BC-04 Burke Lake/Lafayette	Stephanie Hein 7940 Valmont Rd Boulder
		Call	Usually sees larvicide techs and hasn't yet so far. Stated if they have not come out yet please do.
		Description/Instructions:	Can go through the back yard to get to the pond in the rear Filled seasonal pond on 6/9 was not yet breeding on 6/10, but likely to breed in a week or so
		Resolution:	No Action Required
2024-06-10	Boulder County Mosquito Control District	BC-03 Gunbarrel	Tim Rostello 5887 Woodbourne Hollow Boulder
		Call	Contact left vm that would like to be added to "monitor and spray list" - called back left vm that w
		Description/Instructions:	have techs working in area and county determines when/where we spray
		Resolution:	No Action Required
2024-06-11	Boulder County Mosquito Control District	BC-09 Boulder Hills/Chance Acres	Ann Hoser 6000 St Vrain Longmont
		Call	Contact stated a tech climbed a fence and sprayed on her property without her permission. She has lived there 25 years. She has called the sheriff's office regarding this. Advised per the site at her location has been removed and marked do not enter.
		Description/Instructions:	Sites removed
		Resolution:	No Action Required
2024-06-11	Boulder County Mosquito Control District	BC-03 Gunbarrel	Larry Varner 6903 Valmont Rd Boulder
		Call	Contact asked when will spray area near Sawhills pond. Advised we have techs larviciding there
		Description/Instructions:	and pond belongs to the city, county determines when we can spray. Contact stated there is a ditch of concern as well, but the source of the mosquitoes is probably the pond. I advised will send tech Tech in area
		Resolution:	No Action Required

Date	Contract	Locality	Contact Info
2024-06-11	Boulder County Mosquito Control District	BC-06 Niwot/Brigadoon Glen	Marty Korthase 6507 Robin Dr Longmont
<p>Call Description/Instructions: Contact left vm- Has trap in yard and said it was low before, but mosquitoes are bad. Thinks may have standing water to the north in a pit that fills up sometimes. Stated walked a mile away and there were not any mosquitoes, so it seems localized.</p> <p>called back and left vm advising will send tech Techbreated 6/4 and 6/13</p> <p>Resolution: No Action Required</p>			
2024-06-13	Boulder County Mosquito Control District	BC-03 Gunbarrel	Alejandra Maxon 6849 Idylwild Ct Boulder
<p>Call Description/Instructions: Contact uses private mosquito service but it's not helping- lots of bites. Advised there are techs working in area and county has not started spraying yet. Also, there are city-owned swamps in Gunbarrel that we do not treat- Contact would like tech to investigate to see if anything more can be done</p> <p>Tech in area, will spray when county gives go ahead</p> <p>Resolution: No Action Required</p>			
2024-06-13	Boulder County Mosquito Control District	BC-06 Niwot/Brigadoon Glen	Marty Korthase 6507 Robin Dr Longmont
<p>Call Description/Instructions: Contact called back to stress that she is mostly concerned about the pit full of water that "needs BTI"</p> <p>Pit Inspected and treated 6/4 and 6/13</p> <p>Resolution: No Action Required</p>			
2024-06-17	Boulder County Mosquito Control District	BC-06 Niwot/Brigadoon Glen	Marti Korthase 6507 Robin dr Longmont
<p>Call Description/Instructions: Contact asked about mosquito numbers for trap on her property - advised 600 per mgr. she asked what BoulderCounty parameters are for spraying, advised is up to them, but we are working in area, larviciding, etc. she said the creek is running so it's probably not that, but there is standing water in fields nearby. Said she will contact Marshall at Boulder County because she used to work there and knows how things work</p> <p>Resolution: No Action Required</p>			
2024-06-17	Boulder County Mosquito Control District	BC-03 Gunbarrel	Tim Rostello 5887 Woodbourne Hollow Rd Boulder
<p>Call Description/Instructions: Contact left vm that mosquitoes were worse than usual over the weekend and wanted to request spraying- stated no need to call him back</p> <p>Resolution: No Action Required</p>			

Date	Contract	Locality	Contact Info
2024-06-20	Boulder County Mosquito Control District	BC-01 Louisville/Baseline/S Boulder Creek	David Doe
			na Marshall
	Description/Instructions:	Call Contact left vm asking about spraying in town of Marshall, Boulder County Called back left vm advising not spraying yet per county but we have had another complaint in area and will send tech	
	Resolution:	No Action Required	
2024-06-20	Boulder County Mosquito Control District	BC-03 Gunbarrel	Deb Kaemmer
			5858 Woodbourne Hollow Rd Boulder
	Description/Instructions:	Call Contact left vm stating is concerned about wetland on property she has already treated with "mosquito bits" and another wetland to the East in open space. Also lots of trees and shrubs. Stated we can put trap on her property. Called back left vm that techs are working in area- mentioned city-owned ponds may contribute and we don't treat those and boulder county has not ok'd spraying yet, but when they do we will mention calls from Woodbourne Hollow Closing- no follow-up needed	
	Resolution:	No Action Required	
2024-06-20	Boulder County Mosquito Control District		Edward Ahlstrand
			na Boulder
	Description/Instructions:	Call Contact left voicemail asking for a call back about mosquito control. Did not leave any location information closing- no follow-up needed	
	Resolution:	No Action Required	
2024-06-20	Boulder County Mosquito Control District	BC-01 Louisville/Baseline/S Boulder Creek	Howard Moskowitz
			n/a Boulder
	Description/Instructions:	Call Contact left vm that is from unincorporated Boulder County and calling about mosquitoes- no location info included Called back left vm asking to provide address closing- no action possible at this time	
	Resolution:	No Action Required	
2024-06-20	Boulder County Mosquito Control District	BC-06 Niwot/Brigadoon Glen	Kierstin Doe
			6675 Bluebird Ave Longmont

Date	Contract	Locality	Contact Info
			<p>Call Description/Instructions: Contact stated her area is horribly infested- rural - concerned about local farmers flooding fields and causing increase in breeding - Asked what a homeowner can use themselves that's safe around pets/humans/beneficial pollenators, that's also environmentally friendly</p> <p>Mgr. took over call and discussed options to purchase from hardware store, explained how Boulder County handles spraying, etc. closing- no action needed</p> <p>Resolution: No Action Required</p>
2024-06-20	Boulder County Mosquito Control District	BC-06 Niwot/Brigadoon Glen	Kristin Doe
			na Boulder
			<p>Call Description/Instructions: Contact left vm with no address or location info that is calling about mosquitoes in area</p> <p>Called back left vm asking to provide address closing - no action needed</p> <p>Resolution: No Action Required</p>
2024-06-20	Boulder County Mosquito Control District	BC-08 SW Longmont	Kyle Moller
			7183 Alpenglow Ct Boulder
			<p>Call Description/Instructions: Contact left vm- tech left door tag and asked what they did or if he need's to call us back</p> <p>Called back left vm advising tech left tag to let him know we were around to respond to his request, nothing done on private property Closing - No action needed</p> <p>Resolution: No Action Required</p>
2024-06-20	Boulder County Mosquito Control District	BC-08 SW Longmont	Kyle Moller
			7183 Alpenglow Ct Longmont
			<p>Call Description/Instructions: Asked about spray schedule. Worried about West Nile. Advised will send tech . Has sensitive neighbors in cul de sac. Advised of notification and shutoff requests via website. Pond not breeding, fish and dragonflies present, all other depressions are dry</p> <p>Resolution: No Action Required</p>
2024-06-20	Boulder County Mosquito Control District	BC-06 Niwot/Brigadoon Glen	Marti Korhasee
			6507 Robin Dr Longmont
			<p>Call Description/Instructions: Contact asked if sprayed last night because noticed it rained</p> <p>Advised tech sprayed 9:43-10:21 and that we do not fog in rain Closing - no action required</p> <p>Resolution: No Action Required</p>
2024-06-20	Boulder County Mosquito Control District	BC-03 Gunbarrel	Nick Janowictz

Date	Contract	Locality	Contact Info
			4567 Tally Ho Trail Boulder
		Call Description/Instructions:	Contact left vm stating is concerned about open space parcel of land that goes to Twin Lakes (Johnson Colon?). Stated is OK with larvicide and spraying
			Called back left vm to notify that techs work in Twin Lakes every week doing larvicide, county has not yet ok'd spraying, city-owned bodies of water may contribute, but we are working on it closing - no follow-up needed
		Resolution:	No Action Required
2024-06-20	Boulder County Mosquito Control District	BC-01 Louisville/Baseline/S Boulder Creek	Peggy Kuhn
			1561 S Foothills Hwy Boulder
		Call Description/Instructions:	Contact concerned about ditch leaking water into parks in Sans Souci Community and puddles forming - advised will send tech to look around park, larvicide
		Resolution:	No Action Required
2024-06-20	Boulder County Mosquito Control District	BC-08 SW Longmont	Ted Doe
			Goose Point Court Longmont
		Call Description/Instructions:	Contact concerned about dry creek to the south where he thinks breeding is taking place. I advised our techs larvicide in area- he asked if went to the dry creek specifically - mgr took over the call and notified of plans to continue work in the area as the last techs there ran out of time before they could get to everything Need access to his property to check Big Dry Creek east of the open space. Can also ask Ted Bender to call him (7202914781) No standing water, foggers should be sent out asap Closing- no follow-up needed
		Resolution:	No Action Required
2024-06-21	Boulder County Mosquito Control District	BC-08 SW Longmont	Ted Bender
			6919 Goose Point Ct Longmont
		Call Description/Instructions:	Contact left vm stating having mosquito issues and asked if someone could walk the ditch between Left Hand Reservoir, Lagerman Reservoir, and Dry Creek- Called back left vm that we have techs working in area, but will send one to look at these concerns specifically Checked Big Dry Creek, no SW, foggers should be sent out ASAP. Future technicians need to either contact Mark Loch or ask Ted to contact him to make sure they have permission to cross into his land (Big Dry Creek east of the open space) Creek is dry, some biting
		Resolution:	No Action Required
2024-06-24	Boulder County Mosquito Control District	BC-06 Niwot/Brigadoon Glen	Cheryl Hodges
			na NIwot
		Call Description/Instructions:	Contact asked how spraying prgm works- advised Boulder County decides where/when, have not started yet, based on traps, feedback, disease risk, etc. we have techs working, larviciding, and will spray when Bo Co allows closing - no action needed

Date	Contract	Locality	Contact Info
Resolution: No Action Required			
2024-06-25	Boulder County Mosquito Control District	BC-06 Niwot/Brigadoon Glen	Crystal Divette 7484 N 49th St Longmont
Description/Instructions: Call Contact left vm that wanted to make sure she's in our system/on our route - only asked for call if we have questions - have sent tech there recently closing - no action needed			
Resolution: No Action Required			
2024-06-25	Boulder County Mosquito Control District	BC-08 SW Longmont	Lori Salo 7550 Plateau Rd Longmont
Description/Instructions: Call Contact left vm - stated has not seen anyone out there - concerned about marshes - didn't ask for call			
Resolution: No Action Required			
2024-06-25	Boulder County Mosquito Control District	BC-ULV BCMCD ULV/No Spray	Monreve Klingebeil 4716 Harwood St Boulder
Description/Instructions: Call Contact asked to confirm on no-spray registry - advised yes Asked if spraying Heatherwood - advised not this week Asked if we could spray only perimeter of Heatherwood and not go down streets because spray blows over - Advised we will shut off spray at no-spray addresses, but will spray reg route otherwise closing - no action needed			
Resolution: No Action Required			
2024-06-25	Boulder County Mosquito Control District	BC-03 Gunbarrel	Sally Forester 4447 Driftwood Pl Boulder
Description/Instructions: Call Contact seeing lots of mosquitoes at Twin Lakes/Gunbarrel 63rd and Jay - Advised trap was high and we will be fogging tomorrow night closing - no action needed			
Resolution: No Action Required			
2024-06-25	Boulder County Mosquito Control District	BC-08 SW Longmont	Terry Eads na Longmont
Description/Instructions: Call Contact left vm asking if we service Longmont and/or unincorporated Boulder County. .Has mosquito concerns- did not leave address info Called back left vm asking contact to provide address so we can assist closing - no action to take at this time			
Resolution: No Action Required			

Date	Contract	Locality	Contact Info
2024-06-26	Boulder County Mosquito Control District	BC-01 Louisville/Baseline/S Boulder Creek	Ed Ahlstrand na Boulder
<p>Call Description/Instructions: Contact left vm that would like to talk to Nick about mosquito control- did not leave address or any info besides name and phone #</p> <p>Called back and left vm asking for address closing - no action needed</p> <p>Resolution: No Action Required</p>			
2024-06-26	Boulder County Mosquito Control District	BC-05 Orange Orchard/Lake Valley	Sue Doe Lake Valley Dre Longmont
<p>Call Description/Instructions: Contact left vm asking if needs to bring in dog during spraying</p> <p>Called back left vm advising we use permethrin which is an ingredient in flea/tick shampoos, low concentration, etc. Gave time window for spraying (aim for between sunset and midnight) in case does want to bring in dog closing - no action needed</p> <p>Resolution: No Action Required</p>			
2024-06-27	Boulder County Mosquito Control District	BC-01 Louisville/Baseline/S Boulder Creek	Jane Bement 6708 Baseline Rd Boulder
<p>Call Description/Instructions: Contact left vm asking if could be added to schedule & get pond checked for larvae today for her guests</p> <p>Called back left vm that will send tech to look at pond & that traps nearby @ Brigadoon Hill to the North have been low</p> <p>Resolution: No Action Required</p>			
2024-06-27	Boulder County Mosquito Control District	BC-02 Erie/Brownsville	Nancy Greider 1621 Holeman Dr Erie
<p>Call Description/Instructions: Contact left vm stating got bitten 3 times by huge mosquitoes, feels spray truck is skipping her home</p> <p>Checked and contact address is on spray path- called back & left vm to let her know closing- no action needed</p> <p>Resolution: No Action Required</p>			
2024-06-27	Boulder County Mosquito Control District	BC-09 Boulder Hills/Chance Acres	Suzanne Webble Prospect Rd Longmont

Date	Contract	Locality	Contact Info
		Call Description/Instructions:	Contact left vm asking if her area included in Boulder County mosquito mitigation Called back left vm that we fogged along prospect last night, but need more info about location, if calls back and gives addr will send tech closing - no action needed
		Resolution:	No Action Required
2024-07-01	Boulder County Mosquito Control District	BC-05 Orange Orchard/Lake Valley	Beth Potter 5050 Niwot Rd Longmont
		Call Description/Instructions:	Contact left vm stating we sprayed their neighbors' property and now have deer flies - asking someone to larvicide- dog is getting bitten a lot Called back left vm advising we have not sprayed yet per BoCo
		Resolution:	No Action Required
2024-07-01	Boulder County Mosquito Control District	BC-03 Gunbarrel	Deb Kaemmer Woodbourne Hollow Rd Boulder
		Call Description/Instructions:	Contact left vm stating seeing lots of mosquitoes- asked when treatment/spray will occur Called back left vm to notify larviciding & working in area already, county decides on spraying closing - no action needed
		Resolution:	No Action Required
2024-07-01	Boulder County Mosquito Control District	BC-05 Orange Orchard/Lake Valley	Steve Gansfield Orange Orchard Boulder
		Call Description/Instructions:	Contact left vm stating no one has sprayed his area in Orange Orchard and typically they do by now Called back left vm notifying that we have trap in area and techs larviciding, Boulder County has not started spraying yet closing - no action needed
		Resolution:	No Action Required
2024-07-03	Boulder County Mosquito Control District	BC-05 Orange Orchard/Lake Valley	Beth Potter 5050 Niwot Rd Longmont
		Call Description/Instructions:	Contact left vm stating thought someone treated for deer flies on neighbor's land Called back left vm to advise we offer mosquito control only and she will need to reach out to a company for help with deer flies closing - no action needed
		Resolution:	No Action Required
2024-07-03	Boulder County Mosquito Control District	BC-05 Orange Orchard/Lake Valley	David Howard

Date	Contract	Locality	Contact Info
			na Longmont
		Call Description/Instructions:	Contact asked about the Boulder County Mosquito Control program - advised we larvicide and have a trap in Orange Orchard and the county decides when spraying occurs based on trap numbers, calls, and other data closing - no action needed
		Resolution:	No Action Required
2024-07-03	Boulder County Mosquito Control District	BC-09 Boulder Hills/Chance Acres	Linda Henson-Steern 8424 Ouray Longmont
		Call Description/Instructions:	Contact left vm asking to be added back to spray list & have pond on property treated Contact is not on list for shutoff or notification and is in a zone we treat- called back left vm that will send tech Pond treated in backyard.
		Resolution:	No Action Required
2024-07-08	Boulder County Mosquito Control District	BC-05 Orange Orchard/Lake Valley	Beth Potter 5050 Niwot Rd Longmont
		Call Description/Instructions:	Contact left vm stating wants someone to treat pond for mosquitoes and deer flies Called back left vm advising will send tech tomorrow or Wednesday for mosquitoes only, we don't treat deer flies
		Resolution:	No Action Required
2024-07-08	Boulder County Mosquito Control District	BC-09 Boulder Hills/Chance Acres	Linda Hansenstern 8424 Ouray Dr Longmont
		Call Description/Instructions:	Contact's pond had larval treatment last week but population blew up a couple days later. Asked if tech can re-treat. Asked that tech also please ditch and check puddles
		Resolution:	No Action Required
2024-07-08	Boulder County Mosquito Control District	BC-09 Boulder Hills/Chance Acres	Rick Losoff Chance Acres Longmont
		Call Description/Instructions:	Contact left vm to request spraying at Chance Acres near Longmont Airport Called back left vm to advise have techs working in area but BoCo hasn't approved spraying yet Closing - no action needed
		Resolution:	No Action Required
2024-07-08	Boulder County Mosquito Control District	BC-09 Boulder Hills/Chance Acres	Suzanne Webble 5375 Prospect Rd Longmont

Date	Contract	Locality	Contact Info
		Call	Contact stated tech just left. Said OK to come back - neighbors have huge drained pond. once hay field is drained drained would like to have someone drive back there. I advised per mgr we will be spraying her driveway next time we fog Boulder Hill
		Resolution:	No Action Required
2024-07-08	Boulder County Mosquito Control District	BC-09 Boulder Hills/Chance Acres	Suzanne Webble 5735 Prospect Rd Longmont
		Call	Contact following up on previous voicemail conversations and would like test and treatment for larvae
		Description/Instructions:	Cattails behind house near willow tree treated with 16 ounces.
		Resolution:	No Action Required
2024-07-09	Boulder County Mosquito Control District	BC-01 Louisville/Baseline/S Boulder Creek	Peggy Kuhn 1561 S Foothills Hwy Boulder
		Call	Contact left voicemail asking about a two-week return on mosquito control. Called back, left voicemail asking for clarification. Also included in voicemail response that tech has been there and we spray Marshall rd per traps; this week was low.
		Description/Instructions:	closing - no action needed
		Resolution:	No Action Required
2024-07-09	Boulder County Mosquito Control District	BC-ULV BCMCD ULV/No Spray	Vanetta Parkes 5620 Boulder Hills Dr Longmont
		Call	Contact left vm stating would like to be removed from no spray/shutoff list. Manager removed earlier today. Called back and left vm to notify
		Description/Instructions:	closing - no action needed
		Resolution:	No Action Required
2024-07-10	Boulder County Mosquito Control District	BC-03 Gunbarrel	Kristin Aldretti 6824 Idyllwild Ct Boulder
		Call	Contact left vm inquiring when spraying will start. She has had to seek medical treatment for infected mosquito bites. Called back left vm - last sprayed there 6/26. Explained that spraying decisions are made ultimately made by Boulder County and are based on information from traps, etc.
		Description/Instructions:	Closing - no action needed
		Resolution:	No Action Required
2024-07-10	Boulder County Mosquito Control District	BC-01 Louisville/Baseline/S Boulder Creek	Peggy Kuhn 1561 Foothills Hwy Boulder

Date	Contract	Locality	Contact Info
		Call Description/Instructions:	Contact left voicemail to provide more info per previous voicemail from office admin. Stated she is not exactly at Marshall. The East ditch leaks onto the property, at least half of whose residents are seniors at an affordable home park. The ditch flows down to S Boulder Creek and is creating a "mosquito heaven." Stated the tech on the 19th told her she would be back in 2 weeks.
		Resolution:	No Action Required
2024-07-11	Boulder County Mosquito Control District	BC-06 Niwot/Brigadoon Glen	Chris Cannon 5050 Oxford Rd. Longmont
		Call Description/Instructions:	Contact stated he is experiencing the worst mosquitoes in 12 years. Asked if there is a known reason for this. Explained mosquito populations are affected by factors such as rain, temps, standing water, etc. Contact saw one of our trucks at neighbor's house and inquired whether findings are available on website. Advised techs' findings are not published online. Will send tech to check the area.
		Resolution:	No Action Required
2024-07-11	Boulder County Mosquito Control District	BC-10 Hygiene	Jesse Klinder 11666 Crane Hollow Rd Longmont
		Call Description/Instructions:	Contact left voicemail stating he would like to move forward with granule treatment for slack water sections along St. Vrain, as recommended by the tech he talked to today. Manager said will look into this. Performed inspection. No treatment required.
		Resolution:	No Action Required
2024-07-11	Boulder County Mosquito Control District	BC-05 Orange Orchard/Lake Valley	Steve Gansfield Orange Orchard Boulder
		Call Description/Instructions:	Contact left voicemail stating he is with the board at Orange Orchard and noticed there has been no spraying. Left a 2nd voicemail stating the same, but provided the 720 phone #. Called back the 303 number and left vm to notify that Boulder County determines when to spray based on trap numbers, complaints, and other factors. Advised the trap at Orange Orchard has not come back high and that we have techs doing larvicide and surveillance in the area. Closing - no action needed
		Resolution:	No Action Required
2024-07-16	Boulder County Mosquito Control District	BC-03 Gunbarrel	Catarina Jensen 7201 Park Lane Rd Longmont
		Call Description/Instructions:	Contact returned call with address/location info - Concerned about the area behind Lobo trail and nearby ditch. Advised we have spraying scheduled in Gunbarrell Estates tomorrow, weather permitting Closing - no action required
		Resolution:	No Action Required
2024-07-16	Boulder County Mosquito Control District	BC-03 Gunbarrel	Jamela Swanson

Date	Contract	Locality	Contact Info
			Gunbarrel Estates Longmont
		Call Description/Instructions:	Contact left vm stating there are terrible mosquitoes on Lobo Trail near neighborhood and she hopes we will spray. Called back left vm to notify we have scheduled spraying in Gunbarrell Estates tomorrow night, weather permitting. Closing - No action required
		Resolution:	No Action Required
2024-07-16	Boulder County Mosquito Control District	BC-03 Gunbarrel	James Chivers
			Gunbarrel Estates Longmont
		Call Description/Instructions:	Contact sent email via Boulder County website stating mosquitoes have exploded in growth recently and would like to know about next spraying. Called and spoke with- advised Gunbarrel Estates is on fogging sched. for tomorrow, weather permitting Closing - no action required
		Resolution:	No Action Required
2024-07-16	Boulder County Mosquito Control District	BC-01 Louisville/Baseline/S Boulder Creek	Joe Shepherd
			224 Vaquero Dr Boulder
		Call Description/Instructions:	Contact left vm with concerns about standing water, about 6 in. to 1 ft. deep from Barcelona going south. Called back, left vm to notify we will send tech to investigate.
		Resolution:	No Action Required
2024-07-16	Boulder County Mosquito Control District	BC-03 Gunbarrel	John Doe
			Lookout and 71st Longmont
		Call Description/Instructions:	Contact left vm to report high mosquito activity in Gunbarrel Estates at the Northeast corner of Lookout and 71st. No phone # left, stated no need to call back, but would like us to consider spraying. Closing - No action required
		Resolution:	No Action Required
2024-07-16	Boulder County Mosquito Control District	BC-ULV BCMCD ULV/No Spray	Karen Hunter
			4165 Nibllilck Dr Longmont
		Call Description/Instructions:	Contact saw spraying notice on website and does not want property to be sprayed tomorrow. Advised we have her on the no spray list. Explained shutoff is courtesy and request may be ignored if there are public health concerns, etc. Contact asked if needs to call every time she sees her area on the spraying schedule. Advised she does not need to call again and we will do our best to honor her request when possible. Closing - No action needed
		Resolution:	No Action Required
2024-07-16	Boulder County Mosquito Control District	BC-10 Hygiene	Lea Davis

Date	Contract	Locality	Contact Info
			1130 N 75th St Longmont
		Call	Contact concerned about standing water in ditch to the South of the property. She is seeing a lot of mosquitoes. Advised will send tech if we do not already have one working in her area.
		Resolution:	No Action Required
2024-07-16	Boulder County Mosquito Control District	BC-08 SW Longmont	Lori Salo
			7550 Plateau Rd Longmont
		Call	Contact left vm stating she desperately needs mosquito control. Did not request call back.
		Description/Instructions:	
		Resolution:	No Action Required
2024-07-16	Boulder County Mosquito Control District	BC-01 Louisville/Baseline/S Boulder Creek	Lynn Knickerbocker
			14561 Benton Broomfield
		Call	Contact wanted to make sure her neighborhood, Pony Estates in Unincorporated Boulder County, has not been overlooked for mosquito control. Advised how Boulder County program works, with county deciding when and where to spray based on trap numbers, complaint calls, tech feedback, etc. Advised not on schedule this week, but that county reassesses each week. Contact mentioned a neighbor would like to be notified when we will be spraying. I gave instructions on how to sign up for notifications online.
		Description/Instructions:	Closing - No action needed
		Resolution:	No Action Required
2024-07-16	Boulder County Mosquito Control District	BC-03 Gunbarrel	Michael Doe
			Park Lane Rd Longmont
		Call	Contact left vm stating the mosquitoes are bad even during the day on Park Lane Road. Asked about adding a new trap and/or spraying plans. Called back - voicemail full.
		Description/Instructions:	Closing - no action required
		Resolution:	No Action Required
2024-07-16	Boulder County Mosquito Control District	BC-06 Niwot/Brigadoon Glen	Tracy Spencer
			7570 N 83rd St Niwot
		Call	Contact left vm stating would like to give access to her farm. It is about 100 acres and she will need to provide a gate code. Per mgr., a tech was there Monday morning 7/15. No need to call back.
		Description/Instructions:	Closing - No action required
		Resolution:	No Action Required
2024-07-18	Boulder County Mosquito Control District	BC-03 Gunbarrel	Eric Heiser
			Gunbarrel Estates Longmont

Date	Contract	Locality	Contact Info
			<p>Call Contact left voicemail asking for confirmation whether we sprayed in Gunbarrel Estates last night. Description/Instructions: Called back left vm to notify that we did. Closing - no action required</p> <p>Resolution: No Action Required</p>
2024-07-22	Boulder County Mosquito Control District	LM-02 Longmont South	Ed Doe Majestic Dr. Longmont
			<p>Call Contact left vm stating they are being inundated by mosquitoes on Majestic Dr in Longmont. Description/Instructions: Called back left vm to notify we have a trap on Majestic and it came back high last week, so we sprayed. Will spray again this week if trap numbers are high, weather permitting Closing - no action required</p> <p>Resolution: No Action Required</p>
2024-07-25	Boulder County Mosquito Control District	BC-06 Niwot/Brigadoon Glen	Jane Doe na Niwot
			<p>Call Contact left vm with no name or address stating would like to be "taken off the spray list." Called Description/Instructions: back and left vm with website and instructions on how to sign up for notification/courtesy shutoff. Closing - No action required</p> <p>Resolution: No Action Required</p>
2024-07-25	Boulder County Mosquito Control District	BC-06 Niwot/Brigadoon Glen	Jenny Roberts 9882 Niwot Rd Longmont
			<p>Call Contact left vm to request spraying. Concerned about irrigation ditch to the Southeast of property. Description/Instructions: Called back left vm that while we do not typically deviate from spray routes in Boulder County, we will send a tech to look at ditch and surrounding area.</p> <p>Resolution: No Action Required</p>
2024-07-30	Boulder County Mosquito Control District	BC-10 Hygiene	John Barth 6363 Lake Dr Longmont
			<p>Call Contact left vm that mosquitos really bad near McCall Lake - Called back left fm that county hasn't Description/Instructions: started spraying yet, but techs in area and will send tech Three ponds to the west of McCall creates runoff into the irrigation field, very active breeding</p> <p>Resolution: No Action Required</p>
2024-08-06	Boulder County Mosquito Control District	BC-11 North Boulder County	Jay Adams 9402 Crystal Lane Longmont

Date	Contract	Locality	Contact Info
		Call	Contact stated a water line on the HOA-maintained land behind his home broke about 2 weeks ago and there is standing water about 2 inches deep. Seeing lots of mosquitoes. Stated he uses Mosquito Joe for his own yard and had no issues before, but it is not working anymore. Advised we sprayed there last night and have techs regularly working in area, but will send a tech to check on this new water specifically. Standing water by gated yard.
		Resolution:	Pesticide Application
2024-08-06	Boulder County Mosquito Control District	BC-11 North Boulder County	Terri Eads 11934 Vermillion Rd Longmont
		Call	Contact called back to provide missing location/address info per voicemail from admin. She stated she is mainly concerned about the pond at her address to the West of the trees. Advised will send tech to check on it.
		Resolution:	No Action
2024-08-08	Boulder County Mosquito Control District	BC-03 Gunbarrel	Sandy Risconi 4553 Wellington Rd Boulder
		Call	8/7/2024 Contact left vm to thank field technician Sarah for her assistance and for leaving a door tag. Just wanted to show appreciation for a job well done. 8/8/2024 Closing - No additional action required.
		Resolution:	No Action Required
2024-08-13	Boulder County Mosquito Control District	BC-05 Orange Orchard/Lake Valley	Catherine Corona 3401 Nebo Rd Boulder
		Call	8/9/2024 Contact left vm stating she wanted to discuss incident at pond next door.
		Description/Instructions:	8/13/2024- Called back and spoke with contact. She stated she lives at 3465 Nebo and the previous owner of the property next door at 3401 yelled at tech treating the pond. She wanted to apologize on his behalf and let us know that he is no longer the property owner and she hopes we will continue to treat the pond. The property was sold a few weeks ago, but he still mows the lawn. No action required.
		Resolution:	No Action Required
2024-08-15	Boulder County Mosquito Control District	BC-01 Louisville/Baseline/S Boulder Creek	Laura Smontes 5738 Marshall Rd Boulder
		Call	Contact left vm stating she is seeing the worst mosquitoes in 5 years. Stated there is an incredible amount of standing water to the East and Northwest along Marshall Rd. Requested spraying. Did not leave phone number. 8/15/24 Per mgr we are aware of high trap in area but Boulder county has elected not to spray due to low disease risk. Closing. No additional action required.
		Resolution:	No Action Required
2024-08-21	Boulder County Mosquito Control District	BC-02 Erie/Brownsville	Diane Doe

Date	Contract	Locality	Contact Info
			10693 Arapahoe Rd Lafayette
		Call 8/20/24 - Contact left vm stating there was an explosion of mosquitoes at the veterinary clinic. Description/Instructions: Asked for assistance. 8/20/24- Tech treated sites in area & left door tag.	
		Resolution: No Action Required	
2024-08-26	Boulder County Mosquito Control District	BC-03 Gunbarrel	Judy Pagels
			7265 Park Lane Rd. Longmont
		Call Description/Instructions: Contact reported there is an extreme number of mosquitoes in Gunbarrell Estates. Her home backs Lefthand ditch and she does not see the area represented on the data map. She is treating 2 bodies of standing water on her property with her own larvicide and it does not seem to be helping. I advised we will send a tech if there is not already one working in her area. Walked property with Jody. Showed her were things had the potential to breed. Drainage ditch behind her house is moving so fast the only way it would breed is if flooding going into grass. Nothing was breeding around her.	
		Resolution: No Action Required	
2024-08-26	Boulder County Mosquito Control District	BC-03 Gunbarrel	Sandy Rasconi
			4553 Wellington Rd Boulder
		Call Description/Instructions: Contact left vm stating we usually treat ditch but she has not seen a dorr tag in about 2 weeks and would appreciate a visit. Did not request call back. Completed today on other ticket. Please see information.	
		Resolution: No Action Required	
2024-08-26	Boulder County Mosquito Control District	BC-03 Gunbarrel	Sandy Risconi
			4553 Wellington Rd Boulder
		Call Description/Instructions: Contact concerned about ditch behind property breeding - doesn't know if it's city or county - per mgr street in front of property is city, but ditch in back is county - discussed larvicide and private mosquito services contact has used that did not work - Will send tech Ditch directly behind client has small pockets of water by drains and was breeding was dry otherwise. Treated it with altosid. There is a flood ditch across main street off orchard creek lane and spine road that was heavily breeding. Treated it with oil 1.69 Oz and altosid 3.5 Oz total.	
		Resolution: Pesticide Application	
2024-08-27	Boulder County Mosquito Control District	BC-03 Gunbarrel	Beverly Schuller
			Arapahoe Rd and Hwy 287 Lafayette
		Call Description/Instructions: 8/27/24 Contact left vm stating she was bitten at Pets and Pals where we treated last week and is also concerned about mosquitoes at her home in Stonehenge. Asked for call back about spraying. 8/27/24 Called back and left vm to advise that service for Pets and Pals was a larval inspection, not spraying. Advised we spoke with and received permission from Boulder County to spray Stonehenge area tomorrow night.	
		Resolution: No Action Required	

Date	Contract	Locality	Contact Info
2024-08-27	Boulder County Mosquito Control District		Janet Doe 11189 Random Way Lafayette
<p>Call 8/23/24 Contact left vm stating experiencing mosquito issues.</p> <p>Description/Instructions: 8/26/24 Spoke with contact. Explained how spray program works, fogging based on trap numbers, disease risk. Informed we have a tech working in Erie and will have them check around the area. Contact stated she is seeing mosquitoes during the day. Asked where nearest trap is. I advised on Random Court.</p> <p>Resolution: No Action Required</p>			
2024-08-27	Boulder County Mosquito Control District	BC-03 Gunbarrel	Joyce Shaffer 2075 Stonehenge Circle Lafayette
<p>Call Contact left vm stating has 3 large fish ponds on property and is seeing more mosquitoes now than ever before. Stated she used to receive pellets via a Boulder County extension program, but does not have any now and is unsure what to do.</p> <p>Description/Instructions: 8/26/24 Spoke with contact. Advised there is no current extension program, but we do have techs regularly working in the area. Advised will take her complaint into consideration when talking with county about spraying. Contact asked if spray is safe for dogs. Explained active ingredient is permethrin, safe for pets and people, low concentration, etc. Contact stated her neighbor is also having issues with mosquitoes and will contact us as well.</p> <p>Resolution: No Action Required</p>			
2024-08-27	Boulder County Mosquito Control District	BC-06 Niwot/Brigadoon Glen	Linda Rae 85 Franklin St Niwot
<p>Call Contact left voicemail asking for spraying. Did not request call back.</p> <p>Description/Instructions: 8/27/24 Per manager we received email request through county website. Called contact back and left voicemail to advise there were only 6 mosquitoes in Niwot trap this week, so we will not be spraying, but will send tech to check the situation in her area.</p> <p>Resolution: No Action Required</p>			
2024-08-27	Boulder County Mosquito Control District	BC-03 Gunbarrel	Molly McCrosson Hwy 287 and Arapahoe Rd Lafayette
<p>Call 8/24/24 Received email request via county website. Contact stated lives in Stonehenge neighborhood with lots of older adults who walk dogs for exercise. Due to mosquitoes, they have been staying indoors. Asked when we will spray again.</p> <p>Description/Instructions: 8/26/24 Called and spoke with contact. Advised we had a tech in the area last week responding to a complaint, but they will look again this week. Advised we will take her complaint into consideration when discussing spraying plans with Boulder County, but the county ultimately decides where and when we spray.</p> <p>Resolution: No Action Required</p>			
2024-08-27	Boulder County Mosquito Control District	BC-01 Louisville/Baseline/S Boulder Creek	Pam Decker 5608 Marshall Dr Boulder

Date	Contract	Locality	Contact Info
		Call 8/27/24 - Contact stated has a few ponds on property, but most are dry or nearly dry. Despite low/no water in ponds, seeing lots of mosquitoes. Advised will send tech. Contact instructed to look around East side of the house in back.	
		Resolution: No Action Required	
2024-08-28	Boulder County Mosquito Control District	BC-03 Gunbarrel	Beverly Schuller Arapahoe Rd and Hwy 287 Lafayette
		Call 8/28/24 Contact left 2 voicemails asking when we will be spraying Stonehenge community. Description/Instructions: 8/28/24 - Called back and notified contact we will be spraying in Stonehenge community tonight, weather permitting.	
		Resolution: No Action Required	
2024-09-10	Boulder County Mosquito Control District	BC-11 North Boulder County	Patty Patrone 13480 Davis Ln Longmont
		Call Contact stated there is a stopped ditch and lots of standing water. Description/Instructions:	
		Resolution: No Action Required	
2024-09-10	Boulder County Mosquito Control District	BC-11 North Boulder County	Sam Holst 13550 Davis Ln Longmont
		Call Contact stated Mumford Lateral Ditch stopped from Vermillion Rd. up to the headgate. Description/Instructions:	
		Resolution: No Action Required	