ADAMS COUNTY

MOSQUITO CONTROL PROGRAM
2023 ANNUAL REPORT

October 2023

Prepared by:

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Adams County
Integrated Mosquito Management Program
2023 Annual Report

Contents

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.

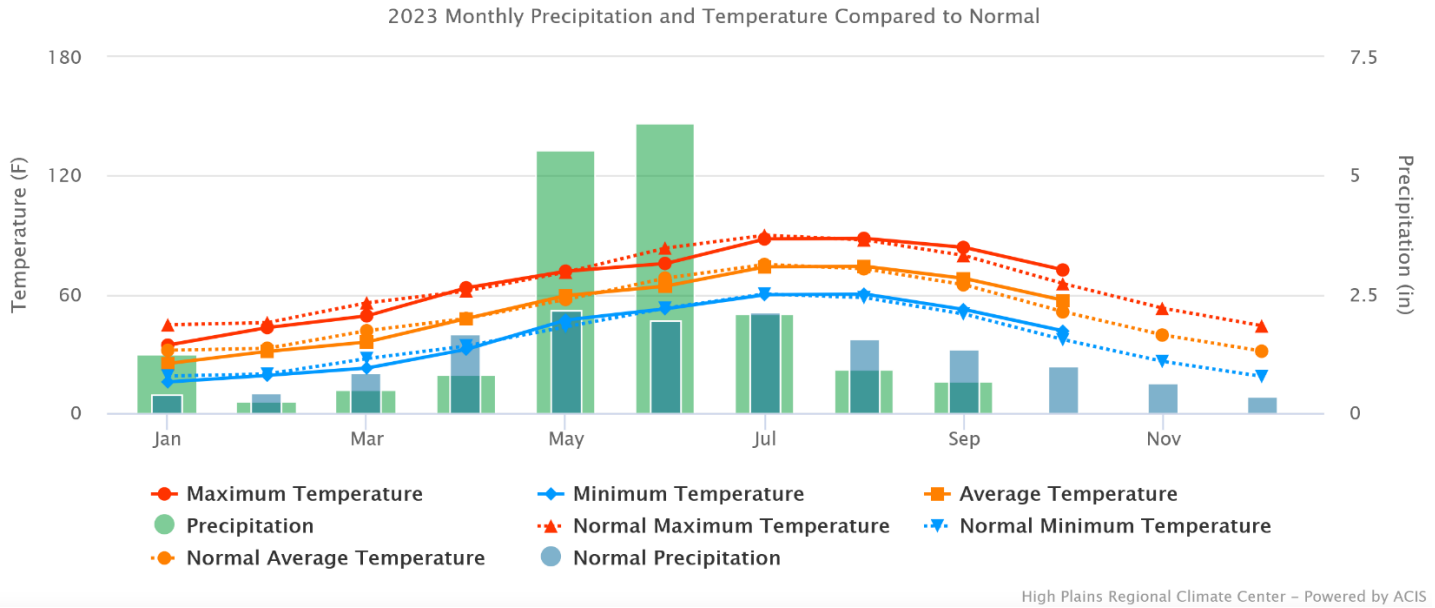
VDCI's Commitment

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.

2023 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.



2023 Precipitation Data

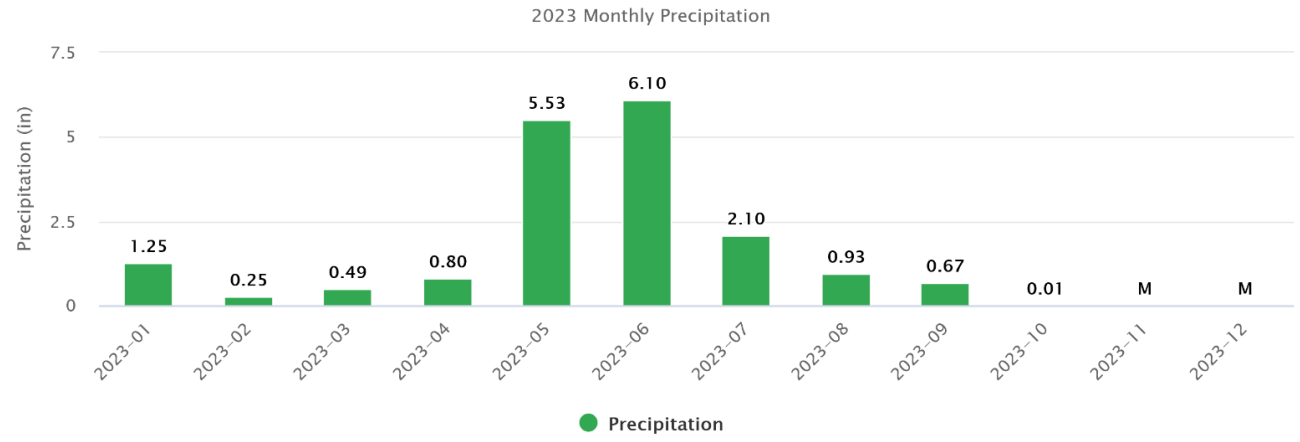
May was the 4th wettest on record for the Denver-Boulder area since 1872, with NWS recording 5.53 inches of precipitation, 2.31 inches above normal. A daily maximum of 2.92 inches was recorded on the 12th. May 2022 received 2.59 total inches.

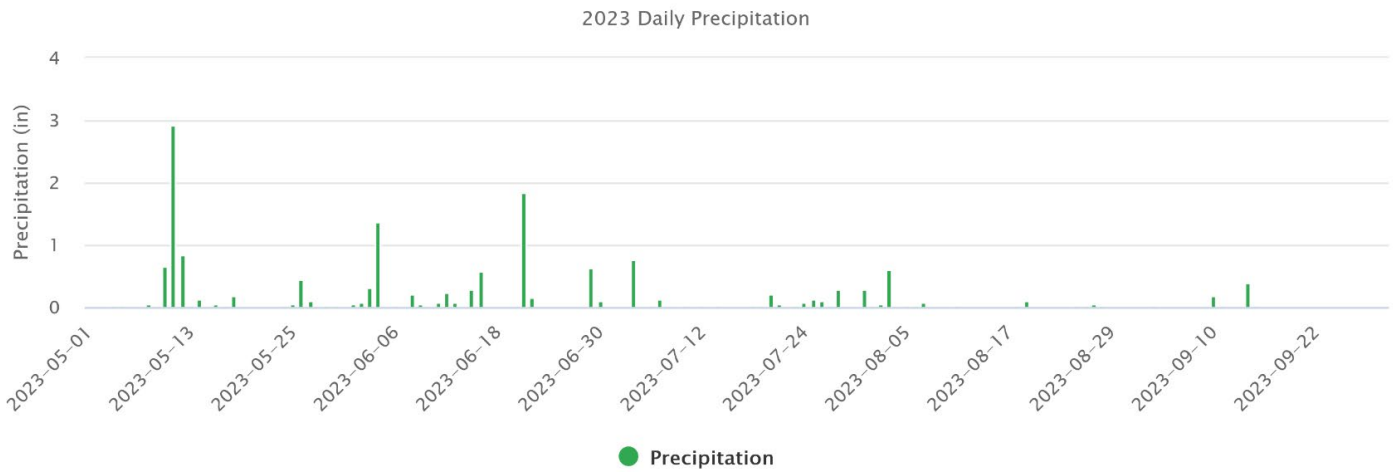
June was the wettest on record for the Denver-Boulder region. The National Weather Service recorded 6.10 inches of precipitation for June, which is 4.16 inches above normal. A daily maximum of 1.85 inches was recorded on the 21st. June 2022 received 0.58 total inches of rain.

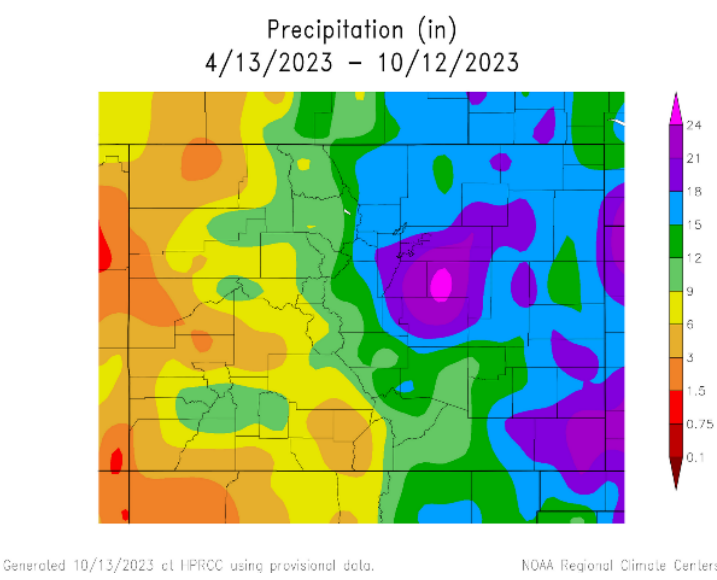
July was the driest month of the season. NWS recorded 2.10 inches of precipitation for July, 0.4 inches below normal. The daily maximum of 0.77 inches occurred on July 4th. In comparison, 0.99 total inches were recorded in July 2022.

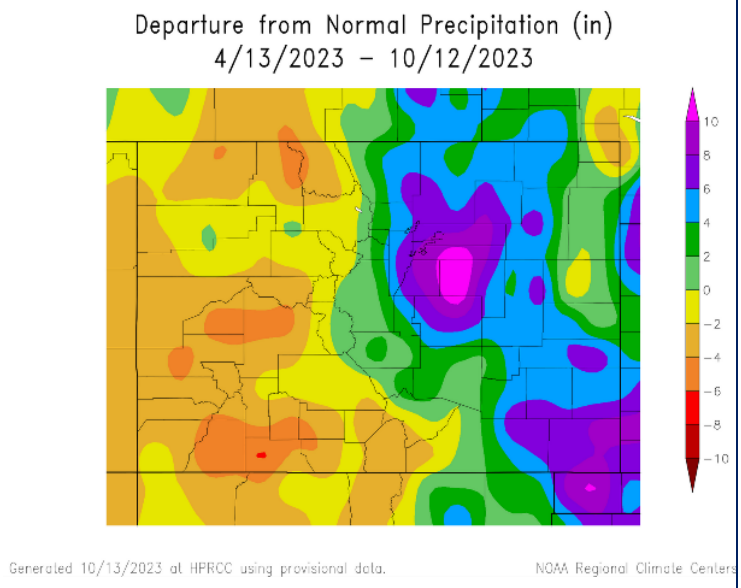
0.93 inches of precipitation were recorded by NWS in August, 0.65 inches below normal. On the 1st, 0.60 inches of precipitation were recorded, the most for the month. August 2022 received 1.46 total inches of rain.

In September 0.67 inches of rain were recorded, 0.68 beneath the average. On the 14th, 0.40 inches of rain fell, the recorded daily maximum for the month. September 2022 saw 1.25 inches of precipitation.









2023 Temperature Data

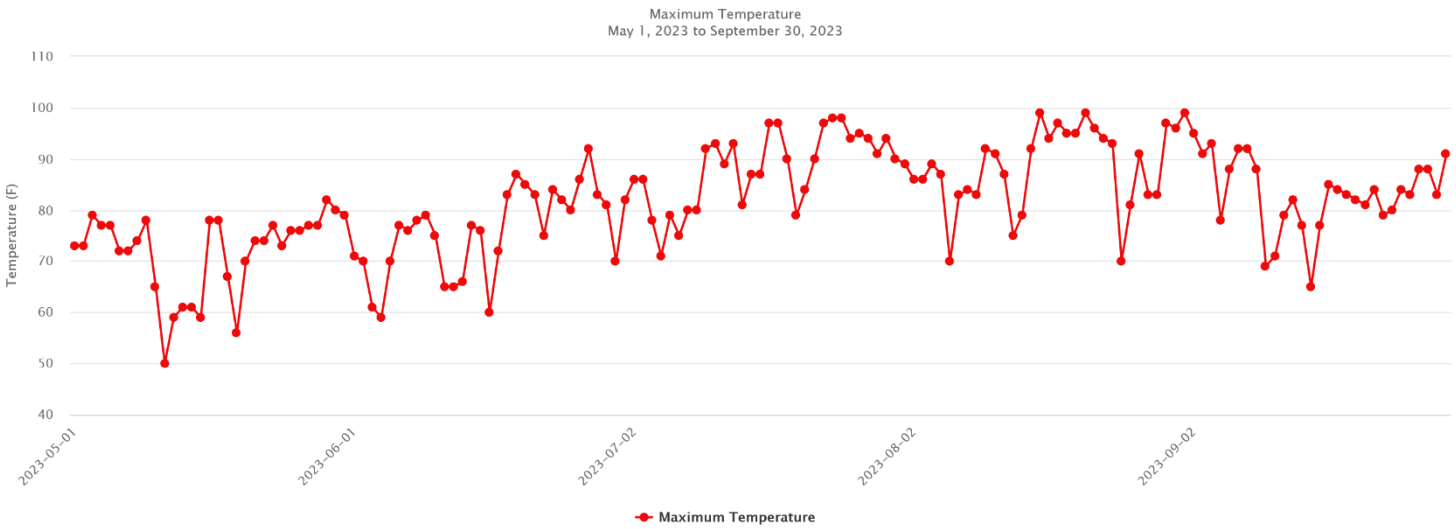
The warmest day in May was the 29th, when temperatures reached 82°F. The average temperature for the month was 59.4°F, 2.0° above average, making it the 35th warmest May on record. May 2022 was the 84th warmest.

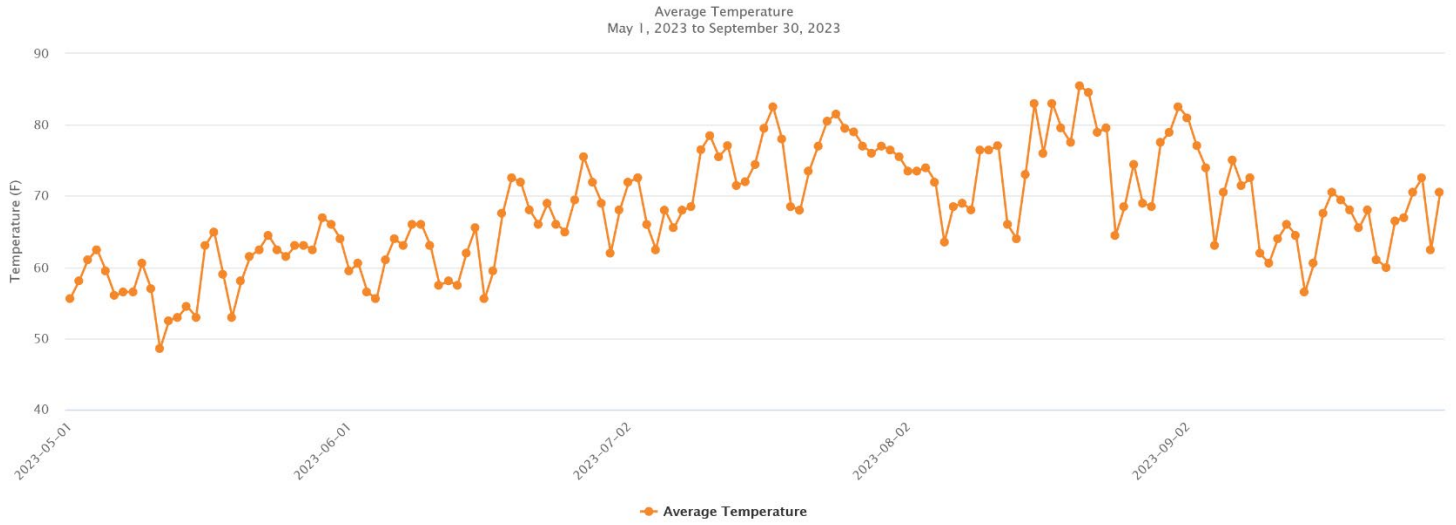
There was one day in June when temperatures reached 90°F, which was the maximum recorded temperature occurring on the 27th. The average temperature for the month was 64.2°F, 4.0°F below normal, the 127th warmest June on record. In comparison, June 2022 was the 28th warmest and had 13 days over 90°F.

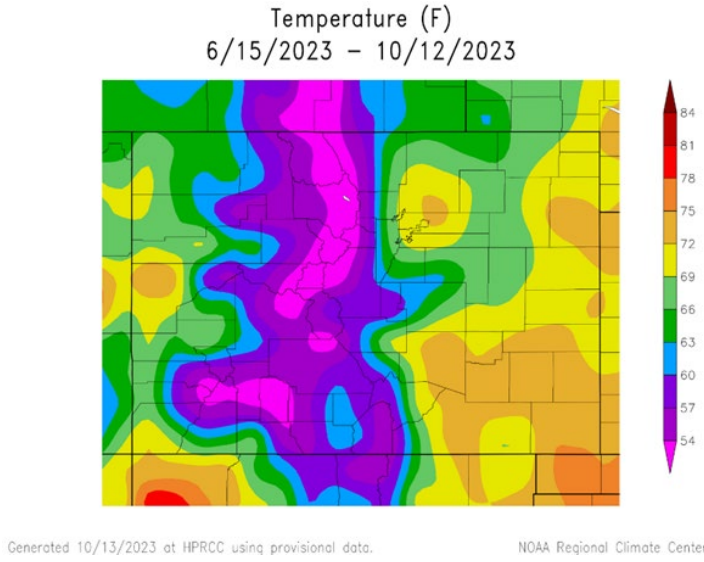
The average temperature in July was 73.9°F, the 67th warmest July and 1.2°F below normal. There were 16 days in July when the temperature exceeded 90°. The maximum recorded temperature was 98°F on the 23rd and 24th. July 2022 was not only the 2nd warmest July on record, but the 2nd warmest month in Denver history.

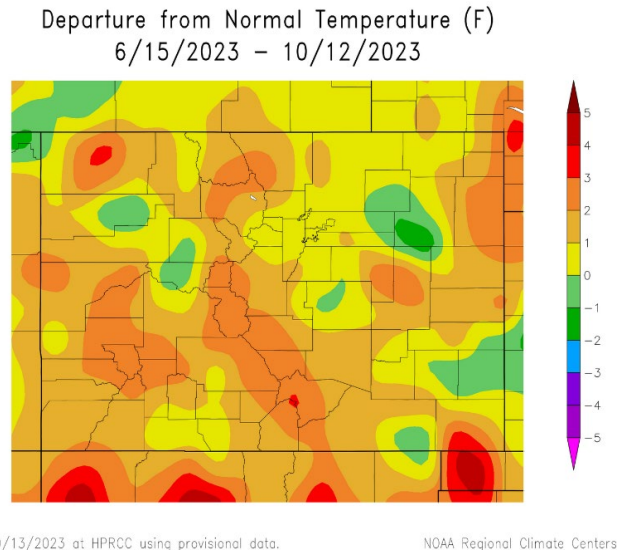
There were 15 days in August where the temperature exceeded 90°F. The maximum recorded temperature was 99°F on the 16th and 21st, the warmest recorded days of the season. The average temperature was 74.2°F, 1.3°F above normal, making 2023 the 18th warmest August for the region. August 2022 was the 4th warmest on record.

September 2023 was tied for the 8th warmest on record with an average temperature of 68°F, 3.2°F above normal. There were seven days with temperatures above 90°F, the warmest day being the 1st at 99°F. September 2022 was the 3rd warmest on record.









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 CO_2, 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:

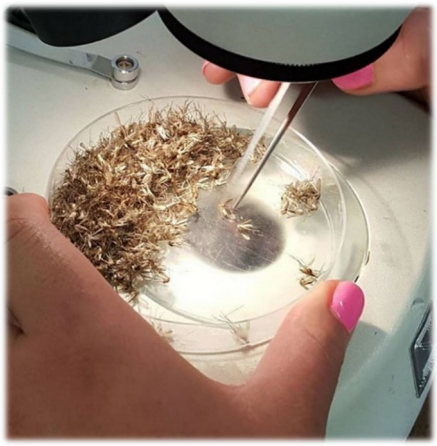
- Determining the effect of larval control efforts. Each mosquito species prefers specific types of habitats for larval development. If a trap includes large numbers, it could indicate the presence of an unknown larval habitat and, based on the species identification and known habitat preference for 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 2023, Vector Disease Control International monitored a statewide network of hundreds of weekly trap sites, collecting 2,212,268 adult mosquitoes that were counted and identified by VDCI surveillance laboratories. An approximate 289.35% increase compared to 764,561 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.



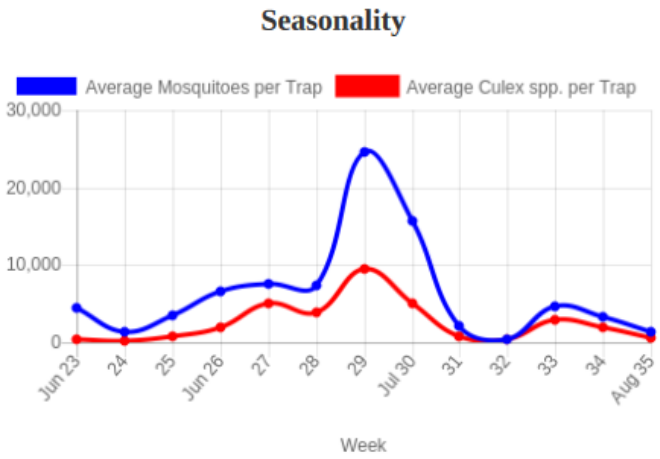
Surveillance Light Trap Data

In 2023, 4 surveillance light traps in Adams County monitored adult mosquito on a weekly basis. VDCI began adult surveillance the week of June 5th and concluded the week of September 3rd corresponding with low adult mosquito activity.

There were 50 CDC light surveillance trap nights set for the program during the 2023 season. These traps collected a total of 82,493 mosquitoes. There was an average of 1,649 mosquitoes caught per trap per night and an average 654.3 *Culex spp.* mosquitoes per trap per night. A total of 13 species were represented in 2023. The composition of mosquitoes collected was 47,464 *Aedes/Ochlerotatus spp*., 11 *Anopheles spp.*, 32,715 *Culex spp*., and 3,289 *Culiseta spp*.

2023 Light Trap Composite Data

Total number of trap/nights set:	50
Total number of mosquitoes collected:	82,493.0
Average mosquitoes per trap/night:	1,649.9
Average Culex per trap/night:	654.3

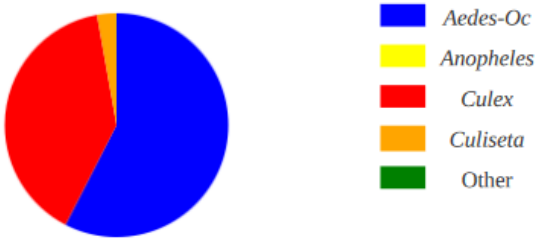


Species collected and abundance:

Aedes dorsalis	9,916.0	12.0%
Aedes increpitus	151.0	0.2%
Aedes melanimon	2,012.0	2.4%
Aedes nigromaculis	53.0	0.1%
Aedes trivittatus	4,766.0	5.8%
Aedes vexans	30,566.0	37.1%
Anopheles freeborni	11.0	0.0%
Culex pipiens	3,262.0	4.0%
Culex salinarius	612.0	0.7%
Culex tarsalis	28,841.0	35.0%
Culiseta inornata	2,289.0	2.8%
Psorophora signipennis	14.0	0.0%

Genus Proportions:

Genus	Number	Percent of Total
Aedes/Ochlerotatus	47,464	57.5%
Anopheles	11	0.0%
Culex	32,715	39.7%
Culiseta	2,289	2.8%
Other	14	0.0%



2023 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.

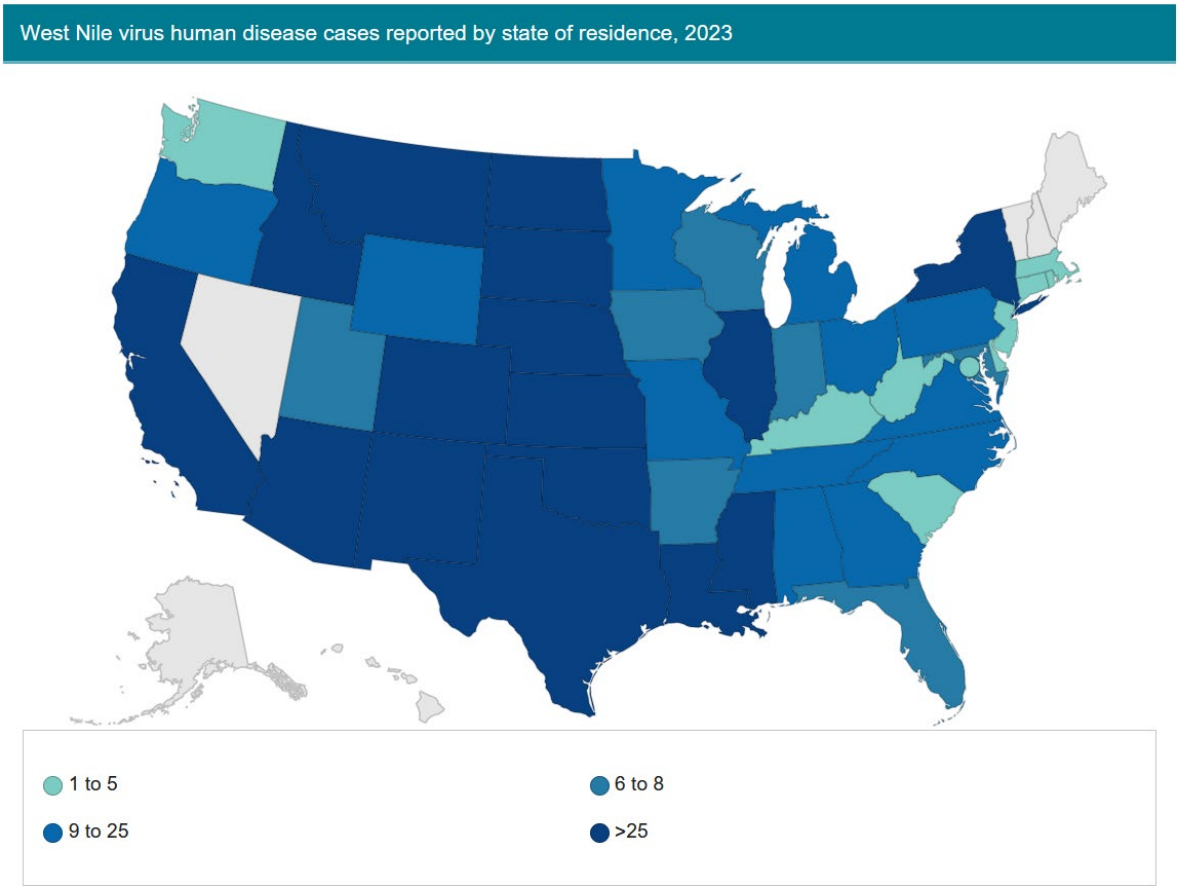
Colorado first saw activity of the virus late in the summer of 2002. In 2003 Colorado was the hardest hit state in the country, compiling 2,947 human cases and 63 deaths, most of which occurred along the Front Range. By 2004 most of the cases shifted to the Western Slope and the state totaled 291 cases 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 repellant and dressing appropriately with pants and long sleeves.

2023 West Nile Virus Season - United States

As of October 13th, 2023, a total of 45 states and the District of Columbia have reported West Nile virus infections in people, birds, or mosquitoes in 2023. Overall, 1,776 human cases of West Nile virus disease across 45 states have been reported to the Centers for Disease Control and Prevention (CDC). 1,154 are reported to be neuroinvasive. Non-human West Nile virus activity (mosquitoes, birds, or sentinel animals) has been reported in 48 states.

As of the same date in 2022, a total of 41 states had reported 656 human cases of WNV and 46 deaths. Ultimately 42 states reported 1,132 human cases, 862 hospitalizations and 93 deaths in 2022. 827 cases were neuroinvasive. Last year ranked 15th in deaths and 16th in overall cases since WNV was first reported in the US in 1999.



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

2023 West Nile Virus Season - Colorado

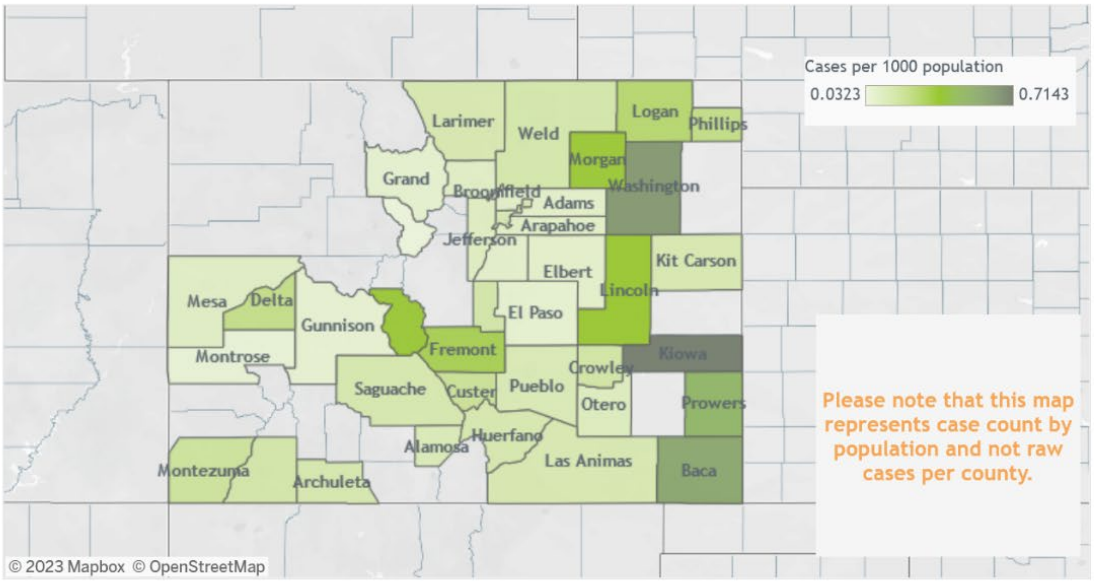
The Colorado Department of Public Health & Environment (CDPHE) began testing mosquito samples in early June. As of October 11th, there have been 192 West Nile virus positive mosquito pools across the Colorado counties of Adams (2), Arapahoe (7), Boulder (22), Delta (3), Denver (5), Jefferson (1), La Plata (1) Larimer (134), Pueblo (2), and Weld (15).

There have been 582 reported human cases in Adams (41), Alamosa, (2) Arapahoe (54), Archuleta (2), Baca (2), Boulder (29), Broomfield (4), Chaffee (7), Crowley (1), Custer (1), Delta (7), Denver (93), Douglas (26), El Paso (45), Elbert (2), Fremont (15), Grand (1), Gunnison (1), Huerfano (1), Jefferson (57), Kiowa (1), Kit Carson (1), La Plata (9), Larimer (50), Las Animas (2), Mesa (14), Montezuma (5), Montrose (2), Morgan (10), Otero (2), Philips (1), Prowers (6), Pueblo (22), Saguache (1), Summit (1), Teller (4), Washington (3), and Weld (49) counties. CDPHE currently reports 356 cases requiring hospitalization and 43 fatalities. 298 cases had neurological symptoms.

There were 206 cases and 20 deaths in 2022, placing it at 5th for overall cases, and 3rd in deaths since WNV first became reportable in Colorado in 2003. That year 66 deaths were reported. With 43 deaths currently, 2023 will rank at least 2nd.

Case Map and Demographics

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



Age distribution of people affected by West Nile virus

Avg. Age	59
Median Age	62
Max. Age	94
Min. Age	0

Number of people affected by reported sex

Female	230
Male	352

Number of people affected per county

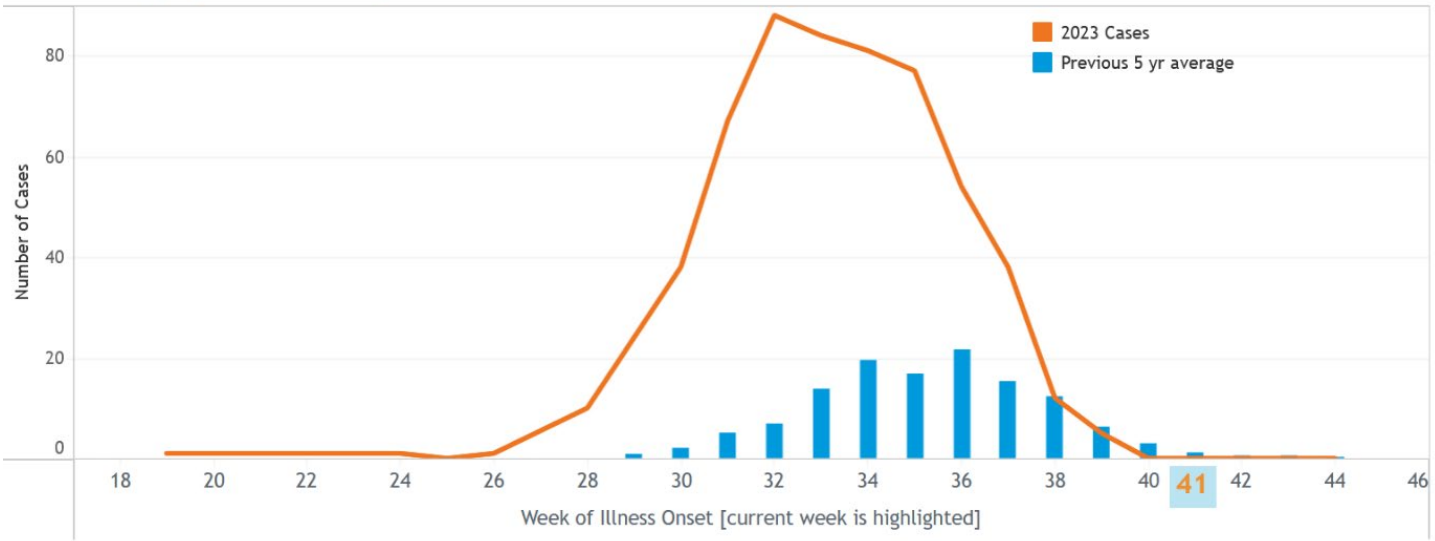
Adams	Alamosa	Arapahoe	Archuleta	Baca	Boulder	Broomfield	Chaffee	Crowley	Custer	Delta	Denver	Douglas	El Paso	Elbert	Fremont	Grand	Gunnison	Huerfano	Jefferson	Kiowa	Kit Carson	La Plata	Larimer	Las Animas	Lincoln	Logan	Mesa	Montezuma	Montrose	Morgan	Otero	Phillips	Prowers	Pueblo	Saguache	Summit	Teller	Washington	Weld
41	2	54	2	2	29	4	7	1	1	7	93	26	45	2	15	1	1	1	57	1	1	9	50	2	2	6	14	5	2	10	2	1	6	22	1	1	4	3	49
7%	0%	9%	0%	0%	5%	1%	1%	0%	0%	1%	###	4%	8%	0%	3%	0%	0%	0%	###	0%	0%	2%	9%	0%	0%	1%	2%	1%	0%	2%	0%	0%	1%	4%	0%	0%	1%	1%	8%

(Denver 16%, Jefferson 10%)

People affected by West Nile virus 2023

People affected: 582	Affected people who died: 43	Affected people with neurologic symptoms: 298	Affected people requiring hospitalization: 356

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



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

2023 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 2023, Vector Disease Control International performed 528 larval site inspections throughout Adams County. Of these individual inspections, 373 sites were wet upon inspection and 110 were producing mosquito larvae. VDCI technicians applied 184.71 lbs. of VectoBac G *(Bti),* 120.38 lbs. of Altosid XRG (S-Methoprene), and 0.08 ounces of BVA 2 larvicide oil to 58.8 acres of breeding habitat.

2023 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 2023 season 65 applications were made for Adams County for a total of 372.4 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 2023 VDCI received approximately 32 phone calls or website submissions from residents within the program.

Appendix A: Light Trap Summaries

AD-07

Season: 05/01/2023 - 09/30/2023

Trap Type: CDC Light Trap

Location: Van-Aire Skypark

GPS: 39.981899973509556, -104.7034000977874

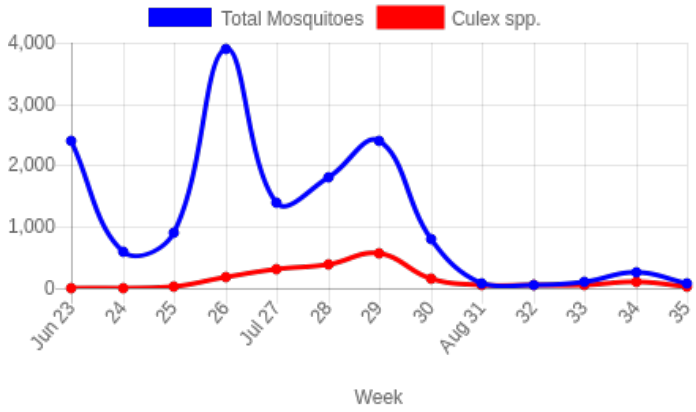
Total number of trap/nights set: 13.0

Total number of mosquitoes collected: 14,749.0

Average mosquitoes per trap/night: 1,134.5

Average Culex per trap/night: 146.1

Seasonality

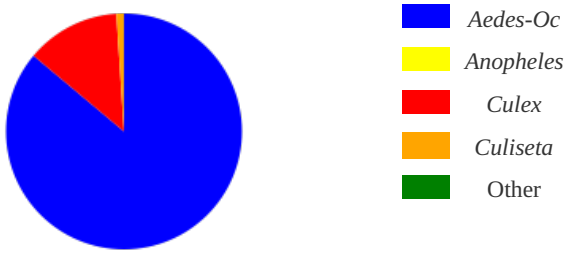


Species collected and abundance:

Aedes dorsalis	7,819.0	53.0%
Aedes increpitus	60.0	0.4%
Aedes melanimon	1,336.0	9.1%
Aedes nigromaculis	35.0	0.2%
Aedes trivittatus	4.0	0.0%
Aedes vexans	3,444.0	23.4%
Culex pipiens	30.0	0.2%
Culex salinarius	3.0	0.0%
Culex tarsalis	1,866.0	12.7%
Culiseta inornata	151.0	1.0%
Psorophora signipennis	1.0	0.0%

Genus Proportions:

Genus	Number	Percent of Total
Aedes/Ochlerotatus	12,698.0	86.1%
Anopheles	0.0	0.0%
Culex	1,899.0	12.9%
Culiseta	151.0	1.0%
Other	1.0	0.0%



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

AD-08

Season: 05/01/2023 - 09/30/2023

Trap Type: CDC Light Trap

Location: Riverdale Road at 112th Avenue

GPS: 39.90015011450581, -104.91565000265837

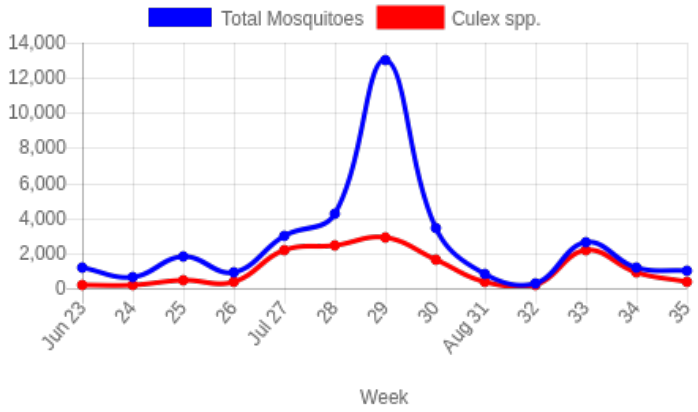
Total number of trap/nights set: 13.0

Total number of mosquitoes collected: 33,955.0

Average mosquitoes per trap/night: 2,611.9

Average Culex per trap/night: 1,102.6

Seasonality

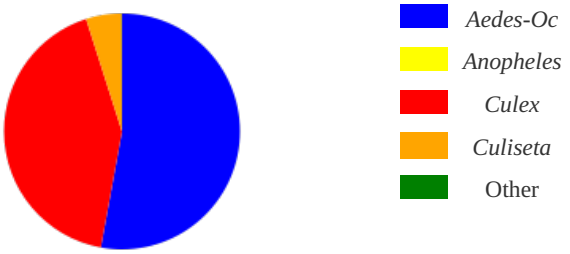


Species collected and abundance:

Aedes dorsalis	1,590.0	4.7%
Aedes increpitus	83.0	0.2%
Aedes melanimon	154.0	0.5%
Aedes nigromaculis	18.0	0.1%
Aedes trivittatus	4,750.0	14.0%
Aedes vexans	11,357.0	33.4%
Culex pipiens	1,637.0	4.8%
Culex salinarius	290.0	0.9%
Culex tarsalis	12,407.0	36.5%
Culiseta inornata	1,656.0	4.9%
Psorophora signipennis	13.0	0.0%

Genus Proportions:

Genus	Number	Percent of Total
Aedes/Ochlerotatus	17,952.0	52.9%
Anopheles	0.0	0.0%
Culex	14,334.0	42.2%
Culiseta	1,656.0	4.9%
Other	13.0	0.0%



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

AD-09

Season: 05/01/2023 - 09/30/2023

Trap Type: CDC Light Trap

Location: Riverdale Road at 144th Avenue

GPS: 39.95855004732925, -104.86264988780022

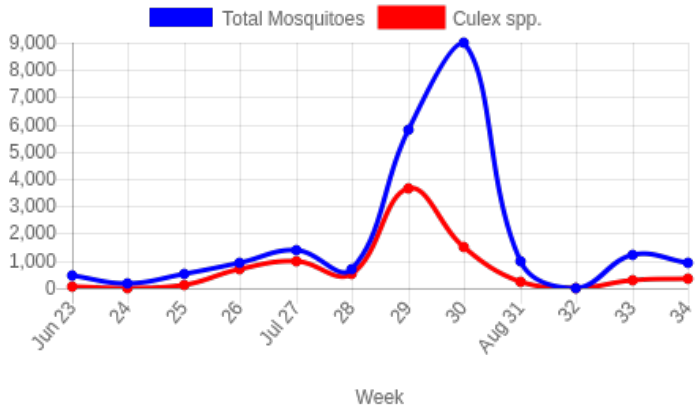
Total number of trap/nights set: 11.0

Total number of mosquitoes collected: 22,039.0

Average mosquitoes per trap/night: 2,003.5

Average Culex per trap/night: 770.1

Seasonality

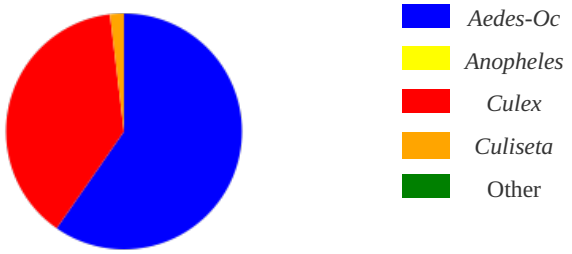


Species collected and abundance:

Aedes dorsalis	326.0	1.5%
Aedes increpitus	5.0	0.0%
Aedes melanimon	496.0	2.3%
Aedes trivittatus	6.0	0.0%
Aedes vexans	12,317.0	55.9%
Anopheles freeborni	1.0	0.0%
Culex pipiens	693.0	3.1%
Culex salinarius	25.0	0.1%
Culex tarsalis	7,753.0	35.2%
Culiseta inornata	417.0	1.9%

Genus Proportions:

Genus	Number	Percent of Total
Aedes/Ochlerotatus	13,150.0	59.7%
Anopheles	1.0	0.0%
Culex	8,471.0	38.4%
Culiseta	417.0	1.9%
Other	0.0	0.0%



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

AD-10

Season: 05/01/2023 - 09/30/2023

Trap Type: CDC Light Trap

Location: Adams County Fairgrounds

GPS: 39.92995008311091, -104.87819999456406

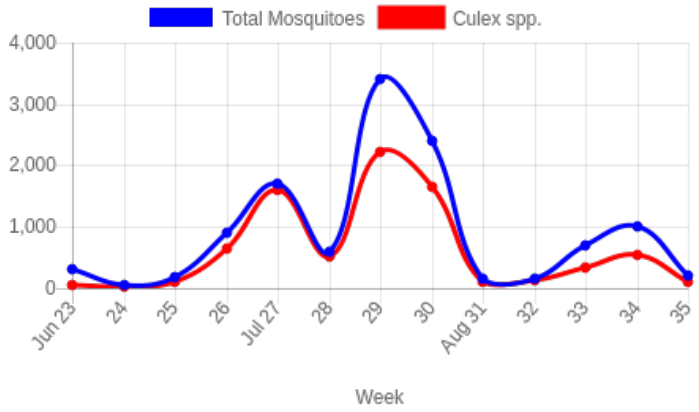
Total number of trap/nights set: 13.0

Total number of mosquitoes collected: 11,750.0

Average mosquitoes per trap/night: 903.8

Average Culex per trap/night: 616.2

Seasonality

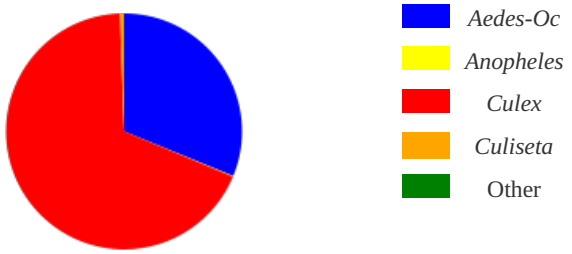


Species collected and abundance:

Aedes dorsalis	181.0	1.5%
Aedes increpitus	3.0	0.0%
Aedes melanimon	26.0	0.2%
Aedes trivittatus	6.0	0.1%
Aedes vexans	3,448.0	29.3%
Anopheles freeborni	10.0	0.1%
Culex pipiens	902.0	7.7%
Culex salinarius	294.0	2.5%
Culex tarsalis	6,815.0	58.0%
Culiseta inornata	65.0	0.6%

Genus Proportions:

Genus	Number	Percent of Total
Aedes/Ochlerotatus	3,664.0	31.2%
Anopheles	10.0	0.1%
Culex	8,011.0	68.2%
Culiseta	65.0	0.6%
Other	0.0	0.0%



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

Appendix B: Adulticide Applications

Ground Adulticide Applications

Start Date: 05/01/2023 **End Date:** 09/30/2023

Adams County

Month	Date	Municipality	Chemical	Mix Ratio	Trip Miles	Spray Miles	Spray Acres	Gallons Sprayed
AD 136th and Sable Applications								
June 2023	06/12/2023		Aqua Kontrol 30-30 (General Use) (73748-11)	1:4	5.0	3.4	123.6	0.9
				Total Aqua Kontrol 30-30 (General Use) Applied:				*0.9*
				AD 136th and Sable Totals:	***5.0***	***3.4***	***123.6***	***0.9***
AD Adams County Fairgrounds Applications								
June 2023	06/10/2023		Aqua Perm-X UL 30-30 (General Use) (89459-76)	1:4	2.2	1.9	68.4	0.5
				Total Aqua Perm-X UL 30-30 (General Use) Applied:				*0.5*
				AD Adams County Fairgrounds Totals:	***2.2***	***1.9***	***68.4***	***0.5***
AD Adams County Government Building Applications								
June 2023	06/14/2023		Aqua Perm-X UL 30-30 (General Use) (89459-76)	1:4	2.5	2.4	88.4	0.7
				Total Aqua Perm-X UL 30-30 (General Use) Applied:				*0.7*
				AD Adams County Government Building Totals:	***2.5***	***2.4***	***88.4***	***0.7***
AD Barr Lake Village Applications								
July 2023	07/10/2023		Aqua Perm-X UL 30-30 (General Use) (89459-76)	1:5	2.3	1.8	66.9	0.5
				Total Aqua Perm-X UL 30-30 (General Use) Applied:				*0.5*

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

Month	Date	Municipality	Chemical	Mix Ratio	Trip Miles	Spray Miles	Spray Acres	Gallons Sprayed
				AD Barr Lake Village Totals:	***2.3***	***1.8***	***66.9***	***0.5***
AD Box Elder Creek Ranch Applications								
July 2023	07/21/2023	Adams County	Aqua Perm-X UL 30-30 (General Use) (89459-76)	1:3	3.9	3.2	116.0	0.9
				Total Aqua Perm-X UL 30-30 (General Use) Applied:				*0.9*
				AD Box Elder Creek Ranch Totals:	***3.9***	***3.2***	***116.0***	***0.9***
AD Bromley Estates Applications								
July 2023	07/21/2023		Aqua Perm-X UL 30-30 (General Use) (89459-76)	1:3	10.2	8.5	308.7	2.4
August 2023	08/18/2023		Aqua Perm-X UL 30-30 (General Use) (89459-76)	1:4	10.4	8.8	321.1	2.5
				Total Aqua Perm-X UL 30-30 (General Use) Applied:				*4.8*
				AD Bromley Estates Totals:	***20.6***	***17.3***	***629.8***	***4.8***
AD Burbach Applications								
July 2023	07/15/2023	Adams County	Aqua Perm-X UL 30-30 (General Use) (89459-76)	1:3	0.9	0.8	28.7	0.2
August 2023	08/10/2023	Adams County	Aqua Perm-X UL 30-30 (General Use) (89459-76)	1:4	0.8	0.8	28.0	0.2
				Total Aqua Perm-X UL 30-30 (General Use) Applied:				*0.4*
				AD Burbach Totals:	***1.7***	***1.6***	***56.7***	***0.4***
AD Cameron Dr/Buckley Rd Applications								
July 2023	07/12/2023		Aqua Perm-X UL 30-30 (General Use) (89459-76)	1:4	3.2	3.2	116.7	0.9
				Total Aqua Perm-X UL 30-30 (General Use) Applied:				*0.9*

Month	Date	Municipality	Chemical	Mix Ratio	Trip Miles	Spray Miles	Spray Acres	Gallons Sprayed
			AD Cameron Dr/Buckley Rd Totals:		***3.2***	***3.2***	***116.7***	***0.9***
AD Franklin Mobile Home Park Applications								
July 2023	07/14/2023	Adams County	Aqua Perm-X UL 30-30 (General Use) (89459-76)	1:3	1.7	1.0	36.0	0.3
			Total Aqua Perm-X UL 30-30 (General Use) Applied:					*0.3*
			AD Franklin Mobile Home Park Totals:		***1.7***	***1.0***	***36.0***	***0.3***
AD McKay Rd/Monaco St Applications								
July 2023	07/10/2023		Aqua Perm-X UL 30-30 (General Use) (89459-76)	1:5	1.7	1.7	62.5	0.5
	07/15/2023		Aqua Perm-X UL 30-30 (General Use) (89459-76)	1:3	2.0	2.0	73.5	0.6
	07/29/2023		Aqua Perm-X UL 30-30 (General Use) (89459-76)	1:4	1.9	1.8	66.5	0.5
August 2023	08/10/2023		Aqua Perm-X UL 30-30 (General Use) (89459-76)	1:4	4.0	2.6	94.5	0.7
	08/19/2023		Aqua Perm-X UL 30-30 (General Use) (89459-76)	1:4	1.9	1.9	68.0	0.5
			Total Aqua Perm-X UL 30-30 (General Use) Applied:					*2.8*
			AD McKay Rd/Monaco St Totals:		***11.6***	***10.0***	***365.1***	***2.8***
AD Picadilly Road/Tower Road Applications								
June 2023	06/30/2023	Adams County	Aqua Perm-X UL 30-30 (General Use) (89459-76)	1:5	2.3	2.3	84.7	0.7
July 2023	07/10/2023	Adams County	Aqua Perm-X UL 30-30 (General Use) (89459-76)	1:5	7.0	6.4	233.1	1.8
	07/14/2023	Adams County	Aqua Perm-X UL 30-30 (General Use) (89459-76)	1:3	7.4	6.4	232.7	1.8

Month	Date	Municipality	Chemical	Mix Ratio	Trip Miles	Spray Miles	Spray Acres	Gallons Sprayed
August 2023	08/18/2023	Adams County	Aqua Perm-X UL 30-30 (General Use) (89459-76)	1:4	7.0	6.5	234.5	1.8
				Total Aqua Perm-X UL 30-30 (General Use) Applied:				*6.0*
June 2023	06/09/2023	Adams County	Aqua Kontrol 30-30 (General Use) (73748-11)	1:4	6.9	6.4	232.0	1.8
				Total Aqua Kontrol 30-30 (General Use) Applied:				*1.8*
				AD Picadilly Road/Tower Road Totals:	***30.6***	***28.0***	***1,017.0***	***7.8***
AD Riverdale Road Applications								
July 2023	07/29/2023		Aqua Perm-X UL 30-30 (General Use) (89459-76)	1:4	0.6	0.6	20.0	0.2
				Total Aqua Perm-X UL 30-30 (General Use) Applied:				*0.2*
				AD Riverdale Road Totals:	***0.6***	***0.6***	***20.0***	***0.2***
AD Riverdale Road + Fairgrounds Applications								
June 2023	06/14/2023	Adams County	Aqua Perm-X UL 30-30 (General Use) (89459-76)	1:4	12.4	10.4	378.1	0.0
	06/23/2023	Adams County	Aqua Perm-X UL 30-30 (General Use) (89459-76)	1:5	12.1	10.7	389.1	3.0
	06/28/2023	Adams County	Aqua Perm-X UL 30-30 (General Use) (89459-76)	1:4	12.2	10.3	374.5	2.8
	06/30/2023	Adams County	Aqua Perm-X UL 30-30 (General Use) (89459-76)	1:4	12.1	10.4	378.5	4.0
July 2023	07/07/2023	Adams County	Aqua Perm-X UL 30-30 (General Use) (89459-76)	1:4	12.0	10.5	380.0	2.9
	07/10/2023	Adams County	Aqua Perm-X UL 30-30 (General Use) (89459-76)	1:5	12.1	10.5	381.8	3.0
	07/15/2023	Adams County	Aqua Perm-X UL 30-30 (General Use) (89459-76)	1:3	14.3	12.6	456.7	3.5

Month	Date	Municipality	Chemical	Mix Ratio	Trip Miles	Spray Miles	Spray Acres	Gallons Sprayed
	07/21/2023	Adams County	Aqua Perm-X UL 30-30 (General Use) (89459-76)	1:4	12.1	10.7	387.2	3.4
	07/29/2023	Adams County	Aqua Perm-X UL 30-30 (General Use) (89459-76)	1:4	11.3	11.1	403.2	3.1
August 2023	08/01/2023	Adams County	Aqua Perm-X UL 30-30 (General Use) (89459-76)	1:4	12.1	10.5	380.3	2.9
	08/04/2023	Adams County	Aqua Perm-X UL 30-30 (General Use) (89459-76)	1:4	8.9	8.7	315.2	2.4
	08/09/2023	Adams County	Aqua Perm-X UL 30-30 (General Use) (89459-76)	1:4	12.2	10.6	386.5	3.0
	08/16/2023	Adams County	Aqua Perm-X UL 30-30 (General Use) (89459-76)	1:4	11.5	9.3	337.4	2.5
	08/23/2023	Adams County	Aqua Perm-X UL 30-30 (General Use) (89459-76)	1:4	12.1	10.5	382.1	2.9
	08/30/2023	Adams County	Aqua Perm-X UL 30-30 (General Use) (89459-76)	1:4	12.1	10.4	379.2	3.0
September 2023	09/06/2023	Adams County	Aqua Perm-X UL 30-30 (General Use) (89459-76)	1:4	12.2	10.5	381.1	2.9
	09/08/2023	Adams County	Aqua Perm-X UL 30-30 (General Use) (89459-76)	1:4	12.1	10.7	387.2	3.0
				Total Aqua Perm-X UL 30-30 (General Use) Applied:				*48.4*
June 2023	06/07/2023	Adams County	Aqua Kontrol 30-30 (General Use) (73748-11)	1:4	12.3	10.8	392.7	3.0
				Total Aqua Kontrol 30-30 (General Use) Applied:				*3.0*
				AD Riverdale Road + Fairgrounds Totals:	***215.9***	***189.0***	***6,870.9***	***51.4***
AD Rotella Park Applications								
July 2023	07/14/2023		Aqua Perm-X UL 30-30 (General Use) (89459-76)	1:3	3.4	2.9	105.8	0.8
	07/28/2023		Aqua Perm-X UL 30-30 (General Use) (89459-76)	1:4	4.4	3.8	139.6	1.1

Month	Date	Municipality	Chemical	Mix Ratio	Trip Miles	Spray Miles	Spray Acres	Gallons Sprayed
August 2023	08/19/2023		Aqua Perm-X UL 30-30 (General Use) (89459-76)	1:4	4.6	4.3	155.3	1.2
				Total Aqua Perm-X UL 30-30 (General Use) Applied:				*3.1*
				AD Rotella Park Totals:	***12.4***	***11.0***	***400.7***	***3.1***
AD Sherrelwood Applications								
July 2023	07/28/2023		Aqua Perm-X UL 30-30 (General Use) (89459-76)	1:4	3.7	3.0	110.2	0.8
August 2023	08/10/2023		Aqua Perm-X UL 30-30 (General Use) (89459-76)	1:4	4.1	3.7	134.9	1.0
	08/19/2023		Aqua Perm-X UL 30-30 (General Use) (89459-76)	1:4	4.1	4.0	144.7	1.1
				Total Aqua Perm-X UL 30-30 (General Use) Applied:				*3.0*
				AD Sherrelwood Totals:	***11.9***	***10.7***	***389.8***	***3.0***
AD Todd Creek Riverside Applications								
June 2023	06/30/2023		Aqua Perm-X UL 30-30 (General Use) (89459-76)	1:4	6.8	5.5	200.3	1.5
August 2023	08/09/2023		Aqua Perm-X UL 30-30 (General Use) (89459-76)	1:4	6.3	5.2	189.1	1.4
	08/16/2023		Aqua Perm-X UL 30-30 (General Use) (89459-76)	1:4	7.0	5.6	201.8	1.5
				Total Aqua Perm-X UL 30-30 (General Use) Applied:				*4.4*
				AD Todd Creek Riverside Totals:	***20.0***	***16.3***	***591.2***	***4.4***
AD Van-Aire Skyport Applications								
June 2023	06/30/2023	Adams County	Aqua Perm-X UL 30-30 (General Use) (89459-76)	1:5	6.0	4.9	177.1	1.4
July 2023	07/14/2023	Adams County	Aqua Perm-X UL 30-30 (General Use) (89459-76)	1:3	0.0	0.0	0.0	0.0

Month	Date	Municipality	Chemical	Mix Ratio	Trip Miles	Spray Miles	Spray Acres	Gallons Sprayed
	07/14/2023	Adams County	Aqua Perm-X UL 30-30 (General Use) (89459-76)	1:3	7.8	4.9	178.9	1.4
	07/22/2023	Adams County	Aqua Perm-X UL 30-30 (General Use) (89459-76)	1:3	6.0	4.9	176.4	1.4
	07/29/2023	Adams County	Aqua Perm-X UL 30-30 (General Use) (89459-76)	1:4	6.1	4.8	174.2	1.3
August 2023	08/18/2023	Adams County	Aqua Perm-X UL 30-30 (General Use) (89459-76)	1:4	6.1	4.8	175.6	1.3
	08/24/2023	Adams County	Aqua Perm-X UL 30-30 (General Use) (89459-76)	1:4	6.8	5.0	180.0	1.4
				Total Aqua Perm-X UL 30-30 (General Use) Applied:				*8.2*
June 2023	06/09/2023	Adams County	Aqua Kontrol 30-30 (General Use) (73748-11)	1:4	6.1	4.9	176.4	1.4
	06/14/2023	Adams County	Aqua Kontrol 30-30 (General Use) (73748-11)	1:4	6.1	4.7	172.4	1.3
				Total Aqua Kontrol 30-30 (General Use) Applied:				*2.7*
				AD Van-Aire Skyport Totals:	***51.0***	***38.8***	***1,410.8***	***10.8***
AD Wright Farms/Holly Crossing/Aspen Reserve Applications								
June 2023	06/14/2023	Adams County	Aqua Perm-X UL 30-30 (General Use) (89459-76)	1:4	6.3	5.7	205.8	1.6
	06/30/2023	Adams County	Aqua Perm-X UL 30-30 (General Use) (89459-76)	1:4	6.7	4.9	176.7	1.3
July 2023	07/17/2023	Adams County	Aqua Perm-X UL 30-30 (General Use) (89459-76)	1:3	6.3	5.4	197.1	1.5
	07/28/2023	Adams County	Aqua Perm-X UL 30-30 (General Use) (89459-76)	1:4	6.2	5.5	198.9	1.5
August 2023	08/04/2023	Adams County	Aqua Perm-X UL 30-30 (General Use) (89459-76)	1:4	6.3	5.0	183.3	1.5

Month	Date	Municipality	Chemical	Mix Ratio	Trip Miles	Spray Miles	Spray Acres	Gallons Sprayed
				Total Aqua Perm-X UL 30-30 (General Use) Applied:				*7.4*
July 2023	07/10/2023	Adams County	Aqua Kontrol 30-30 (General Use) (73748-11)	1:5	6.2	5.8	212.0	1.6
				Total Aqua Kontrol 30-30 (General Use) Applied:				*1.6*
				AD Wright Farms/Holly Crossing/Aspen Reserve Totals:	***38.1***	***32.3***	***1,173.7***	***9.0***
				Grand Totals:	***435.1***	***372.4***	***13,541.5***	***102.5***

Appendix C: Service Requests

Service Request Report

Start Date: 05/01/2023 **End Date:** 09/30/2023

Date	Contract	Locality	Contact Info
2023-05-30	Adams County	AD-01 Adams County	D'Anne Kimbrel Riverdale Regional Park Golf Course Brighton
Call Description/Instructions:		Wanted info on spraying, permissions to drive through golf course Relayed message to manager	
Resolution:		No Action Required	
2023-05-30	Adams County	AD-01 Adams County	Doug Sisson 15155 Washington St Broomfield
Call Description/Instructions:		Mosquito report Hoping to get pond treated Let him know that surveillance and adulticide starts next week Sent tech to check out area	
Resolution:		No Action Required	
2023-05-31	Adams County	AD-01 Adams County	Martha 1616 E 78th Ave Denver
Call Description/Instructions:		Mosquito report Franklin mobile homes Let her know surveillance and adulticide starts next week and adulticide starts next week	
Resolution:		No Action Required	
2023-05-31	Adams County	CM-01 City of Commerce City	Matt 10642 Dayton Way Henderson
Call Description/Instructions:		Mosquito report Belle creek Drainage area next to house overwatered and floodex Told him surveillance and adulticide starts next week. Larvicide tech can check out wet area	
Resolution:		No Action Required	
2023-06-01	Adams County	AD-01 Adams County	Taylor Shook Clear Lake Estates Denver
Call Description/Instructions:		Mosquito report Targeted fogging in Adams County 6/7 and 6/9	
Resolution:		No Action Required	
2023-06-05	Adams County	AD-01 Adams County	Gerri Hernandez 2641 W 58th Ave Denver
Call Description/Instructions:		Mosquito report Targeted fogging in Adams County 6/7 and 6/9	
Resolution:		No Action Required	
2023-06-06	Adams County	AD-01 Adams County	Debbie Williams

Date	Contract	Locality	Contact Info
			Sherrelwood Park Denver
Call Description/Instructions:		Mosquito report Targeted fogging in Adams County 6/7 and 6/9	
Resolution:		No Action Required	
2023-06-06	Adams County	AD-01 Adams County	Roxanne Belle Creek Henderson
Call Description/Instructions:		Mosquito report Targeted fogging in Adams County 6/7 and 6/9	
Resolution:		No Action Required	
2023-06-07	Adams County	AD-01 Adams County	Rachel 7977 York St Denver
Call Description/Instructions:		Mosquito report Yorktown Targeted fogging in Adams County 6/7 and 6/9	
Resolution:		No Action Required	
2023-06-13	Adams County	AD-01 Adams County	Chelsey Bokhoven 5415 Primrose Ln Denver
Call Description/Instructions:		Mosquito report Standing water in drainage easement nearby Sent tech to check out area	
Resolution:		No Action Required	
2023-06-14	Adams County	AD-01 Adams County	Jane Doe 1643 Quivira Dr Denver
Call Description/Instructions:		Mosquito report Sent tech to check out area	
Resolution:		No Action Required	
2023-06-20	Adams County	AD-01 Adams County	Patty 100 W 64th Ave Denver
Call Description/Instructions:		Mosquito report Wants to know if we can larvicide the ditch nearby Ditch larvicided 6/14, will continue to monitor larvae at 64th and Broadway	
Resolution:		No Action Required	
2023-06-23	Adams County	AD-01 Adams County	Naomi Sylvia 13220 Picadilly Rd Commerce City
Call Description/Instructions:		Mosquito report Picadilly road fogged 6/29	
Resolution:		No Action Required	
2023-07-03	Adams County	AD-01 Adams County	Jennifer

Date	Contract	Locality	Contact Info
			3529 W 65th Ave Denver
Call Description/Instructions:		Mosquito report Standing water in open space behind house Multiple houses all drain into area Larvicide technicians monitoring nearby areas	
Resolution:		No Action Required	
2023-07-08	Adams County	AD-01 Adams County	Emily 941 Bronco Rd Denver
Call Description/Instructions:		Mosquito report Sherrelwood Targeted fogging in Burbach 7/15	
Resolution:		No Action Required	
2023-07-10	Adams County	AD-01 Adams County	Naomi Sylvia 13220 Picadilly Rd Commerce City
Call Description/Instructions:		Mosquito report Fogged Picadilly rd 7/10	
Resolution:		No Action Required	
2023-07-14	Adams County	AD-01 Adams County	Martha Sullivan Franklin Mobile Home Park Denver
Call Description/Instructions:		Mosquito report Franklin Mobile Home Park fogged 7/14	
Resolution:		No Action Required	
2023-07-17	Adams County	AD-01 Adams County	Loretta Cordova 8242 Washington st Denver
Call Description/Instructions:		Mosquito report Rotella Park Larvicide technicians monitoring nearby areas 7/19	
Resolution:		No Action Required	
2023-07-18	Adams County	AD-01 Adams County	Tiffany 15175 Almstead St Hudsin
Call Description/Instructions:		Mosquito report Bromley Estates Bromley Estates fogged 7/21	
Resolution:		No Action Required	
2023-07-19	Adams County	AD-01 Adams County	Rick Burton 152nd & Overton St Brighton
Call Description/Instructions:		Mosquito report Box elder estates Box Elder Estates fogged 7/21	
Resolution:		No Action Required	

Date	Contract	Locality	Contact Info
2023-07-31	Adams County	AD-01 Adams County	Jane Doe 123rd Ave Brighton
Call Description/Instructions:		Mosquito report Wright Farms fogged 7/28 and 8/4	
Resolution:		No Action Required	
2023-08-01	Adams County	AD-01 Adams County	Morgan I-76 & Pecos St Denver
Call Description/Instructions:		Mosquito report Bad near Clear Creek Trail Larvicide technicians monitoring nearby areas	
Resolution:		No Action Required	
2023-08-08	Adams County	AD-01 Adams County	Christy Montoya 11633 E 163rd Ct Brighton
Call Description/Instructions:		Mosquito report Stagnant water in retention pond Todd Creek Riverside Todd Creek Riverside fogged 8/9 Larvicide technicians monitoring areas nearby	
Resolution:		No Action Required	
2023-08-08	Adams County	AD-01 Adams County	Robin Hannon 1405 Cortez St Denver
Call Description/Instructions:		Mosquito report Standing water Standing water on private property Larvicide technicians monitoring nearby areas	
Resolution:		No Action Required	
2023-08-08	Adams County	AD-01 Adams County	Tebbie Kramer 10025 Brighton Rd Henderson
Call Description/Instructions:		Mosquito report Stagnant water in ponds behind house Can be accessed via broken gate Ponds on private property, unable to access Larvicide technicians monitoring nearby areas	
Resolution:		No Action Required	
2023-08-11	Adams County	AD-01 Adams County	Jane Doe 1781 Doppler St Strasburg
Call Description/Instructions:		Mosquito report Wolf Creek Estates Strasburg trap came back low - no treatment scheduled	
Resolution:		No Action Required	
2023-08-11	Adams County	AD-01 Adams County	Laura Menhennett

Date	Contract	Locality	Contact Info
			14403 Hudson Way Thornton
Call Description/Instructions:		Mosquito report Willow bend Standing water in retention from Todd Creek Larvicide technicians monitoring nearby areas, checked Willow Bend 8/16	
Resolution:		No Action Required	
2023-08-14	Adams County	AD-01 Adams County	Naomi Sylvia 13220 Picadilly Rd Commerce City
Call Description/Instructions:		Mosquito report Picadilly Rd fogged 8/18	
Resolution:		No Action Required	
2023-08-15	Adams County	AD-04 Adams County	Ben Piller 2941 Wagner St Strasburg
Call Description/Instructions:		Mosquito report Strasburg trap came back low - no treatment scheduled	
Resolution:		No Action Required	
2023-08-15	Adams County	AD-01 Adams County	Cyndi Rapp Todd Creek Riverside Brighton
Call Description/Instructions:		Mosquito report Standing water in ditches Todd Creek Riverside fogged 8/16 Larvicide technicians monitoring nearby areas	
Resolution:		No Action Required	
2023-08-15	Adams County	AD-01 Adams County	Emma Francis 34710 E 152nd Ave Hudson
Call Description/Instructions:		Mosquito report Bromley Estates Bromley Estates fogged 8/18	
Resolution:		No Action Required	
2023-08-16	Adams County	AD-01 Adams County	Loretta Cordova 8242 Washington St Denver
Call Description/Instructions:		Mosquito report Wondering if we have checked ditch between N and S Coronado pkwy Rotella park fogged 8/19 Larval site in Coronado pkwy center channel checked 8/16	
Resolution:		No Action Required	