

2025 Butterfly Inventory of Boulder County Open Spaces



by Janet Chu

And Venice Kelly

11-2025

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Photos on Front Page

The most common Butterflies in 2025, in Boulder County Open Spaces:

Orange Sulphur

Field Crescent by John Barr

Red Admiral

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Cabbage White – *Pieris rapae*, the most numerous Butterfly in the Open Spaces 2025. The photo is a male with one dark spot on the forewing.

I. Abstract.

During a period of 21 years from 2004 through 2025, Research Volunteers inventoried butterflies in several Boulder County Open Spaces. Populations of butterflies began with a high of 54.3 Individuals per Research Hour (I/RH) to a low of 26.9 in 2024, except for a wildfire in Geer Watershed affecting the count to drop to 19.5 I/RH momentarily. The trend shows that the population is losing approximately 1.3% per year or five Individuals per Research Hour each year.

II Introduction.

The research team reduced the number of Open Spaces studied from 2017-2025 to include Anne U. White, Southeast Grassland Buffer, Heil Ranch, Walker Ranch and Caribou Ranch. Sherwood Transect near Caribou Ranch was inventoried seventeen times in 2025; Heil Ranch containing four areas, twelve, Walker Ranch twice, Southeast Buffer Grassland and Anne U. White each once. In 2025 there were 84 species recorded compared with 86 in 2024.

The Butterfly team volunteered 74.5 Research Hours with 135.5 total hours by volunteers for Boulder County. The County Volunteer Hours are found by multiplying the number of people in the field times the Research Hours. This compares to the field work in 2024, which accrued 99 Research Hours with 221 Volunteer Hours; in 2023, 143 Research Hours and 274 Boulder County Volunteers Hours .

III. Acknowledgments

We wish to thank the Boulder County Open Space Department for the research permits giving volunteers access to many areas. We felt privileged and responsible for being part of the care team for the county. Susan Spaulding, Environmental Resources Specialist, Resident Park Rangers Kevin Grady and Sarah Andrew were especially helpful. We are indebted to the lepidopterists who preceded us by beginning museum records and collections, especially Paul Opler, Department of Bio Agriculture, Colorado State University, deceased. Christian Nunes, Boulder City Naturalist and Mike Fisher, author, have been mentors to help in identification.

IV. Methodology

The surveys continue to be meandering, that is, retracing nearly the same path each survey moving momentarily to 'hot spots' with many butterflies, and choosing the day of each survey relating to promising weather. An exception is the transect by Venice Kelly at Sherwood Trail. The transect survey follows a prescribed pathway, repeated date, time in the field, and the area observed. This area is the same year after year. (Pollard, 1993)

Data for each outing are recorded for the Open Space areas walked, the date, weather pattern and time completing the survey. The twelve researchers carrying the permit in 2024 were John Barr, Amy Chu, Ann Cooper, Dan Fosco, Chris Freidman, Linda Hardesty, Sue Hirschfeld, Richard Holmes, Venice Kelly, Joe Krieg, Pam Piombino, and this author. Cathy Cook, Larry Crowley, Jeff MacLachlan, Jean Morgan, Connie Redak, and Wynne Whyman joined us when their schedules allowed. Many photographs were shared, especially when we were seeking help for identification of butterflies. Surveys were conducted from April to September. Each site was visited from two to thirteen times except for Sherwood Trail transect which was visited twenty-one times.

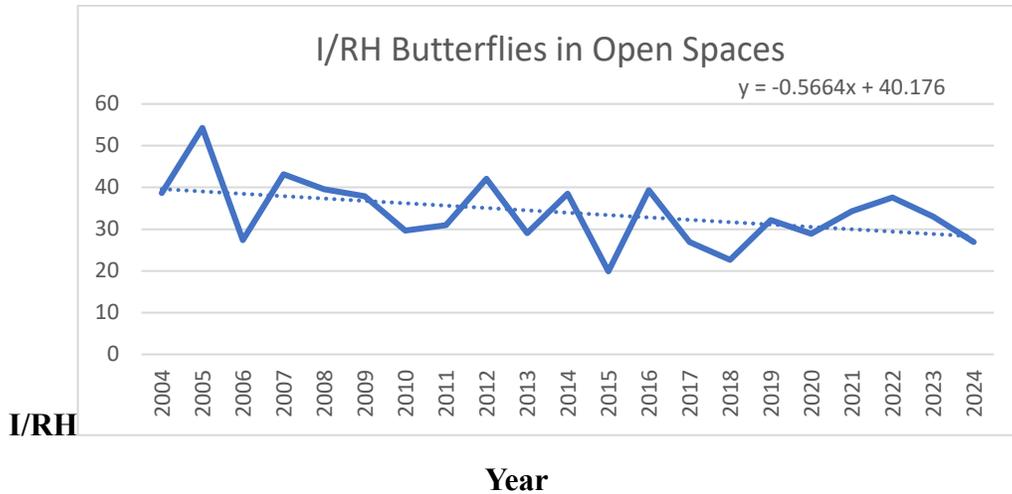
The unit I/RH (Individual butterflies per Research Hour) was devised to allow comparisons of populations of butterfly individuals from one date to another, one location to another and one season to another. This became necessary because the meander method was the most common. The trend of the populations was calculated for the entire population in the Open Spaces that we explored from 2004-2024.

V. Trends

Overall, about 102 species have been identified in the Open Spaces 2004-2025. There was a lack of Gossamer-wing species generally this summer. Melissa Blue (*Plebejus melissa*) was the only species of blue found in each of the Open Spaces, and numbers of these individuals were low.

The count of all-county all-species butterfly populations, as measured by Individual/Research Hour (I/RH), has large interannual variation. Seasonal effects such as temperature, moisture and natural disasters (e.g. fire or flood) impact both the butterfly populations and the data collection protocols. Despite the interannual variability, a clear trend emerges. If we focus on the overall trend, we can describe the county-wide butterfly abundance. Neglecting interannual variation, the population is declining by approximately 1.3% per year or about 5 individual sightings per hour each decade. For example, “a researcher in 2004 may have seen about 40 butterflies in an hour of observation. A prediction was made that in 2024, two decades later, a researcher may expect to see about 30 butterflies in an hour.” (Chu et al. 2023) Actually the I/RH were, in fact only about 27 butterflies were seen in an hour during 2024. No information can be calculated for 2025 because of technical difficulties.

Individual Butterflies per Research Hour in Seven Boulder County Open Spaces - 2004-2024



2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
38.6	54.3	27.4	43.1	39.6	37.9	29.7	31	42.1	29.1	38.5	19.9	39.4	26.9	22.7	32.2	28.9	34.3	37.6	33	26.9

VI. Narrative Discussion for 2025

Species names are continued every year, even though they may not be sighted during that year.

A. Anne U. White Trail was visited only once in May 2025. This was too early for a typical count. The Cabbage White (*Pieris rapae*) is the butterfly, which flies nearly the entire season and during the longest day of any of our butterflies. It was noted along with Julia Orangetip (*Anthocharis julia*). Only eight individual butterflies were seen during the two-hour walk.

B. South Buffer Grassland was visited only once in 2025. On May 12 the Olympia Marble (*Euchloe olympia*) was flying fast over the short grass; the Gray Hairstreaks (*Strymon melinus*) were flying among the short bushes. Over the ridge's terminus three Anise Swallowtails (*Papilio zelicaon*) chased each other, barely stopping for nectar or to rest. This area is called Swallowtail Hill and is marked by a metal monument on the Boulder County Open Space map, because a swallowtail is always there to greet us! The grassland and the source of the Rock Creek continue to be dry.

C. Heil Ranch Open Space has three active research areas for butterflies. Both Red Gulch and Plumely Crossing in Heil Ranch are habitats for the Silvery Blue, which is mentioned in the 2025 Colorado Species of Greatest Concern.

1. The Heil North area contains Red Gulch, which is below the Picture Rock Trail, in the Open Space. It is entered by gaining permission to enter Ron LaFollette's property. Cabbage Whites were the most common and they continued flying through the end of the season in September. Silvery Blues (*Glaucopsyche lygdamus*) and Common Ringlets (*Coenonympha californica ochracea*) were flying on March 22. The Common Checkered-skippers flew March-July, Melissa Blues (*Plebejus melissa*) and Aphrodite Fritillaries (*Argynnis aphrodite*) were active on July 19. It was so dry with no water in the Red Gulch streamlet that many of the butterflies were found in the damp grass below the drain tile seeping from the nearby home.

2. Geer Watershed was searched by Sue Hirscheld and Dan Fosco on July 4, 2025, while participating in the national 4th of July Cal-Wood Butterfly Count. There was no water under the bridge at the entrance. On May 23 Cabbage Whites were the most common, producing a count of 50. i.e. half of the individuals counted that day. Newly emerged American Ladies (*Vanessa virginiensis*) gathered on the damp sand. Pale Swallowtails (*Papilio eurymedon*), Hackberry Emperors (*Asterocampa celtis*), and Common Wood Nymphs (*Cercyonis pegala*) were near the empty stream.

3. Entrance to Plumely Crossing became a favorite observation area because of the stream which had some water. The butterflies flocked to the moisture and were easier to photograph. These 401 individuals were most likely males taking their first moisture following emerging from chrysalids. Females are in nearby flowers searching for nectar. Silvery Blues and Pacuvius Duskywings (*Erynnis pacuvius*) were puddling and numerous in May; Aphrodite Fritillaries (*Argynnis aphrodite*) and Dun Skippers (*Euphyes vestries*) were common in the later season.

D. Walker Ranch was observed twice by Dan Fosco along the Homestead Trail. Western Green Hairstreaks (*Callophrys affinis*) were observed both during May 30 and June 15. Numerous butterflies in May were the Echo Azure (*Celastrina echo*), Field Crescents (*Phyciodes pulchella*) and Persius Duskywing (*Erynnis persius*). Thirty-five species were noted on June 15. The Large Marble (*Euchloe ausonides*) is listed as a Species of Greatest Conservation Need (SGCN). It was sighted on May 30 and June 15, both times the area was surveyed.

E. Caribou - Sherwood Transect by Venice Kelly

The 2025 butterfly season began with April snow and very cold temperatures, but on April 11 the temperature was 60degrees F. On the Sherwood Transect four Hoary commas (*Polygona gracilis*) were flying. On 4/24 Jeff Maclachlan and I re-installed the seep sign. A Hoary Comma and a Hoary Elfin (*Callophrys polios*) flew. On 5/3 I visited Sherwood to find 10 species including Julia Orangetip (*Anthocharis julia*), Mourning Cloak (*Nymphalis antiopa*) and Two Banded Checkered-skippers (*Pyrgus rualis*). This was the earliest I have seen Two Banded Checkered-skippers. The butterflies were mostly puddling in the seep water that was flowing part way down the road.

May 6 and 7 brought heavy snowstorms to the mountains. On 5/10 there were 9 species observed. Blue butterflies were just making an appearance along with Western Pine Elfins (*Callophrys eryphon*), a Large Marble (*Euchloe ausonides*) and a Green Comma (*Polygona faunus*). Golden banner, a host plant for the Persius Duskywing, was starting to bloom, and the butterflies seemed to be recovering after the snow.

More species were emerging on 5/23. 15 species were found. Western Green Hairstreak (*Callophrys affinis homoperplexa*), Echo Azure (*Celastrina echo sidara*) and Dreamy Duskywing (*Erynnis icelus*) to name a few. Mustard plants were beginning to bloom, including Tower mustard; the host plant for Julia Orangetip. The seep was now flowing down most of the road. Many butterflies, as well as other native insects, were puddling. The “sink” hole, that usually fills and overflows at this time of year, was dry as was a spring that is just beyond the seep. Usually by May the spring is flowing a large amount of water into the seep.

After nearly 10 days of very little sun and some rain, the first of June arrived with some sun and warmer temperatures. The total for the survey was 17 species with a couple of Pale Swallowtails (*Papilionidae eurymedon*) and an Anise Swallowtail (*P. zelicaon*), the first swallowtails of the year. Western Pine Elfins were the high count for the day topping 22. There were seven Silvery Blues (*Glaucopsyche lygdamus*) two Field Crescents (*Phyciodes pulchella*) and a Pacuvius Duskywing (*Erynnis pacuvius*). Many of the duskywings and elfins were puddling in the mud on the road.

On 6/7 Wynne Whyman and I found the first Rocky Mountain Parnassian (*Parnassius smintheus*), a Western Tiger Swallowtail (*Papilionidae rutulus*), a Northern Crescent (*Phyciodes cocyta*) and 12 Persius Duskywings. We also found an Echo Azure *marginata* form.

On 6/10 I found 17 species, mostly puddling in the mud on the road. The water flowing down the road is beneficial to so many species. I was seeing birds drinking and bathing, and native paper wasps gathering water to make their nests. Also hover flies and bee mimics were puddling in the mud. Silvery Blues, a Greenish Blue (*Plebejus saepiolus*), and a Western Tailed-blue (*Cupido amyntula*) were also in the mud. A Thicket Hairstreak (*Callophrys spinetorum*) was crawling all over a small mountain parsley flower.

June 16 logged 22 species at Sherwood. The seep was still flowing down the road attracting many Persius Duskywings, Boisduval Blues (*Plebejus icarioides*), and two Arrowhead Blues (*Glaucopsyche piasus*). A

Weidemeyer's Admiral (*Limenitis weidemeyerii*) was puddling at the seep along with 2 Nevada Skippers (*Hesperia Nevada*) and a Common Ochre Ringlet (*Coenonympha tullia ochracea*). Sulphur flower, the host plant for two of our blue butterflies, was blooming as well as choke cherry, the host plant for Two-tailed Swallowtails, and a nectar source for many species.

On 6/18, I had a meeting at Sherwood with Susan Spaulding and David Hirt to clarify the Sherwood restoration project. Susan and I found 26 species. Three Silvery Checkerspots (*Chlosyne nycteis*), a Common Alpine (*Erebia epipsodea*), a Red Admiral (*Vanessa atalanta*), Common Checkered-skipper (*Burnsius communis*) and seven Orange Sulphurs (*Colias eurytheme*) were also counted. The day was hot and dry and many species were taking advantage of the mud and water at the seep and along the road.

I wanted to survey Caribou Open Space before the opening day on July 1st. Charlie and Mary Saunders joined me on 6/27 to do the survey. In 3.5 hours we found 20 species. Queen Alexandra's Sulphurs (*Colias Alexandra*) were now flying along with a Clouded sulphur (*Colias philodice*), and a Dainty sulphur (*Nathalis iole*). We also found five Reakirts Blues (*Echinargus isola*), 5 Northern Checkerspots (*Chlosyne palla*), and one tiny Boisduval Blue. The Northern Checkerspots were emerging ten days later than their usual flight time.

I wanted to keep up with frequent visits to Sherwood because on August 4th the rerouting of the Sherwood creek would begin. On 7/2 the water was not flowing as far, but there were some damp places for a few puddlers. I found 21 species including 19 Queen Alexandra's Sulphurs, three Clouded Sulphurs and four Dainty Sulphurs, A Lupine Blue (*Plebejus lupini lutzi*), along with a Variable Checkerspot (*Euphydryas anicia*), Hoary Comma, a Mourning Cloak, and two Weidemeyer's Admirals. I did find two *Pacuvius Duskywings* but no other skippers were observed.

July 13 was a spectacular day for Sherwood. Jeff and I counted 29 species. Though fritillaries were sparse, we did see one fly by. The water was not allowed to flow down the road as the seep had been redirected. Mud for puddling was still present at the seep and 5 Russet Skipperlings (*Piruna pirus*) were puddling, along with 2 Small Wood Nymphs (*Cercyonis oetus*). Eleven Rocky Mountain Dotted Blues (*Euphilotes ancilla*) were taking advantage of the mud as well as nectaring on sulphur flowers; their host plant. The bridge meadow was blooming with a variety of flowers attracting 4 Purplish Coppers (*Lycaena helloides*), two Ruddy Coppers (*L. rubidus*), two Ochre Ringlets and a Gray Hairstreak (*Strymon melinis*). The day was warm and mostly sunny allowing for more species to fly and court each other.

The butterfly species were increasing a little in July, though individual numbers were still lower than usual. On 7/22 Wynne Whyman, and Suzanne Bhatt joined me on the survey. Twenty-eight species were found including three species of swallowtails, 20 Queen Alexandra's Sulphurs, three Blue Coppers (*Tharsalea heteronea*) and two Edith Coppers (*T. editha*), a male and a female. One Arctic Blue (*Agriades gladen rustica*),

an Aphrodite Fritillary (*Argynnis aphrodite*), a Northwestern Fritillary (*Argynnis hesperis*). Northern Checkerspot numbers were much lower as were the numbers for the coppers.

The days were numbered before the excavation began at the Conger mine site. On July 26 Jane Billings joined me and found 17 species. A Melissa Blue (*Plebejus melissa*) was seen and a fresh Ruddy Copper in the bridge meadow. We found five Weidemeyer's Admirals, two Margined Whites (*Pieris marginalis*), a Northwestern Fritillary and 12 Small Wood Nymphs.

I surveyed Bluebird mine on 7/28 and found 21 species but very low individual numbers. I did find a Coronis Fritillary (*Argynnis coronis*). This is the first Coronis for Bluebird. I also found three Mormon Fritillaries (*Argynnis mormonia*), two Hoary Commas, a Reakirt's Blue and three Blue Coppers.

August 2nd, Jeff and I did the last full Sherwood survey. The excitement of the day was a male Two-tailed Swallowtail (*Papilio multicaudata*). The Ruddy Coppers were defending their territories, and the female Reakirts Blue was ovipositing on red clover. Legumes are their host plants. We also found a fresh Hedgerow Hairstreak (*Satryium saepium*), and 2 Variegated Fritillaries (*Euptoietia claudia*). They were very small which is often typical for this time of year.

I did one last survey of the bridge meadow on 8/20 and found 12 species for the day. Five Pine Whites (*Neophasia menapia*) were actually nectaring, not just flying in the pine trees. There were three Western Branded-skippers (*Hesperia colorado*) and three Woodland Skippers (*Ochlodes sylvanoides*). A Dainty Sulphur and a Mormon Fritillary were also present in the meadow.

Conclusion for Sherwood Transect

This was a very different summer....again. Even though we did have many rainy days, the meadows and road edges remained dry. The fall flowers bloomed a month early, and some of these went to seed early. Fortunately, there were some patches of purple asters that persisted. It was my observation that having the water from the seep flowing down the length of the road for June and most of July, clearly demonstrated the importance of this water source. Even when nectar sources were present, butterflies often preferred the minerals and moisture in the gravel and mud. It is my hope that when they are reseeding and planting at the Conger mine site, more host plants and host shrubs and grasses will be planted. That could help to revive the butterfly populations.

In 2025 there were 64 species located in Caribou Ranch- Sherwood Transect; this compared with 69 species identified both 2023 and 2024. meaning a loss of 5 species that were not seen. There were 1,103 individuals sighted in 2024, and 1,342 I in 2025 compared with an average during the last seven years of 1,174 individual butterflies. Fortunately, three new species were sighted on the Sherwood Transect in 2024: Jutta Arctic (*Oeneis jutta*), Viceroy (*Limenitis archippus*), and Snow's Skipper (*Paratrytone snowi*). The average number of

Research Hours over seven years on this transect was 60, but this year only 49. Reasons for this were high temperatures and construction. There were several butterflies on the Sherwood Transect – Caribou which are listed in the 2025 Species of Greatest Concern: Large Marble, Pine White, Silvery Blue, Thicket Hairstreak, Western Branded Skipper, Two-banded Checkered-Skipper. These will be reported to Colorado Natural History.

VI. Conclusion

In these inventories of Boulder County Open Spaces in 2025 there were 84 species noted. There were 142 I/RH or an average of 28 I/RH. Total numbers of Individuals in 2025 were 2,253. Research volunteers were in the Open Spaces 82 Research Hours, and the Volunteer Hours were 164 for Boulder County Open Spaces. The severe heat and drought in July affected the research teams from going in the field as much as aging years of the researchers. Teams noticed how much easier it was to find butterflies for invoicing along the Plumely Stream, resulting in fewer counts in the varied Open Spaces. Overall, the blues were low in numbers compared with several years ago. The most common butterflies overall were the Cabbage Whites (240) individuals; Orange Sulphurs (107), Field Crescents (63) and Red Admirals (20).

VII. References

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VIII. Data Tables

A. Anne U. White Trail

Anne U. White Trail	2025	5/12
<i>Parnassius smintheus</i>	Rocky Mountain Parnassian	
<i>Papilio polyxenes</i>	Black Swallowtail	
<i>P. zelicaon</i>	Anise Swallowtail	
<i>P. indra</i>	Indra Swallowtail	
<i>P. rutulus</i>	W. Tiger Swallowtail	
<i>P. eurymedon</i>	Pale Swallowtail	
<i>P. multicaudata</i>	Two-tailed Swallowtail	
<i>Pontia protodice</i>	Checkered White	
<i>P. occidentalis</i>	Western White	
<i>P. sisymbrii</i>	Spring White	
<i>Pieris rapae</i>	Cabbage White	3
<i>Euchloe ausonides</i>	Large Marble	
<i>E. olympia</i>	Olympia Marble	
white sp.		
<i>Anthocharis julia</i>	Julia Orangetip	5
<i>Colias philodice</i>	Clouded Sulphur	
<i>C. eurytheme</i>	Orange Sulphur	
<i>Nathalis iole</i>	Dainty Sulphur	
<i>Callophrys affinis homoperplexa</i>	W. Green (Bramble) Hairstreak	
<i>C. sheridanii</i>	White-lined Green Hairstreak	
<i>C. gryneus</i>	Siva Juniper Hairstreak	
<i>C. mossii</i>	Moss' Elfin	
Anne U. White Trail	2025	
<i>C. polios</i>	Hoary Elfin	
<i>C. eryphon</i>	Western Pine Elfin	
<i>Satyrrium titus</i>	Coral Hairstreak	
<i>Strymon melinus</i>	Gray Hairstreak	
<i>Cupido amyntula</i>	Western Tailed-Blue	
<i>Celastrina ladon sidara</i>	Echo Azure	
<i>C. l. lucia</i>	Lucia form - Echo Azure	
<i>Glaucopsyche piasus</i>	Arrowhead Blue	
<i>G. lygdamus</i>	Silvery Blue	
<i>Euphilotes ancilla</i>	Rocky Mountain Dotted-Blue	
<i>Echinargus isola</i>	Reakirt's Blue	
<i>Plebejus saepiolus</i>	Greenish Blue	
<i>P. melissa</i>	Melissa Blue	
<i>P. icarioides</i>	Boisduval's Blue	
<i>P. lupini lutzi</i>	Lupine Blue	
<i>P. glandon rustica</i>	Arctic Blue	
<i>Apodemia nais</i>	Nais Metalmark	
<i>Danaus plexippus</i>	Monarch	
<i>Libytheana carinenta</i>	American Snout	
<i>Euptoieta claudia</i>	Variiegated Fritillary	
<i>Argynnis aphrodite</i>	Aphrodite Fritillary	
<i>A. edwardsii</i>	Edwards' Fritillary	
<i>A. coronis</i>	Coronis Fritillary	
<i>A. callippe</i>	Callippe Fritillary	
<i>A. hesperis</i>	Northwestern Fritillary	
<i>A. mormonia</i>	Mormon Fritillary	
<i>Chlosyne gorgone</i>	Gorgone Checkerspot	
<i>C. palla</i>	Northern Checkerspot	
<i>Phyciodes pallida</i>	Pallid (Pale) Crescent	
<i>P. tharos</i>	Pearl Crescent	
<i>P. cocyta</i>	Northern Crescent	
<i>P. pulchella</i>	Field Crescent	

<i>Polygonia interrogationis</i>	Question Mark	
<i>Polygonia gracilis</i>	Hoary Comma	
<i>Polygonia satyrus</i>	Satyr Comma	
<i>Junonia coenia</i>	Common Buckeye	
<i>N. antiopa</i>	Mourning Cloak	
<i>Vanessa atalanta</i>	Red Admiral	
Anne U. White Trail	2025	5/12
<i>V. virginensis</i>	American Lady	
<i>Limenitis weidemeyerii</i>	Weidemeyer's Admiral	
<i>Coenonympha californica ochracea</i>	Common Ringlet	
<i>Cercyonis pegala</i>	Common Wood-Nymph	
<i>C. oetus</i>	Small Wood-Nymph	
<i>Oeneis uhleri</i>	Uhler's Arctic	
<i>Epargyreus clarus</i>	Silver-spotted Skipper	
<i>Pholisora catullus</i>	Common Sootywing	
<i>Erynnis persius</i>	Pacuvius Duskywing	
<i>E. persius</i>	Persius Duskywing	
<i>E. icelus</i>	Dreamy Duskywing	
<i>Burnsius communis</i>	Common Checkered-Skipper	
<i>Piruna pirus</i>	Russet Skipperling	
<i>Hesperia juba</i>	Juba Skipper	
<i>H. colorado</i>	W. Branded Skipper	
<i>H. viridis</i>	Green Skipper	
<i>Polites themistocles</i>	Tawny-edged Skipper	
<i>P. mystic</i>	Long Dash	
<i>Ochlodes sylvanoides</i>	Woodland Skipper	
<i>Polites peckius</i>	Peck's Skipper	
<i>Poanes taxiles</i>	Taxiles Skipper	
<i>Euphyes vestris</i>	Dun Skipper	
<i>Atrytonopsis hianna</i>	Dusted Skipper	

2 Research Hours 4 Volunteer Hours for Boulder County

Anne U. White Trail	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
# Species Identified during the year 2024	44	45	35	31	47	50	29	17	10	f l o o d	24	32	23	4	33	28	20	2	2
Research Hours on Site	9.5	16	10	10.5	19.5	13.5	11	6	3		3.5	18.5	10	1	15	9.5	4.5	2	2
Individual Butterflies Counted	366	536	217	112	773	509	334	105	33		96	319	216	22	215	240	123	8	8
Individuals / Research Hour	38.5	33.5	21.7	10.7	39.6	37.7	30	17.5	11		27.4	24	21.6	22	14	25	27	4	4
# Species / Research Hour	4.6	2.8	3.5	3	2.4	3.7	2.6	2.8	3.3		6.8	1.7	2.2	4	2.7	2.9	4.4	2	1
Total # species 2021-2025															83	83	84	84	84

B. Southeast Buffer Grassland

Southeast Buffer Grassland	2025	5/12
<i>Papilio polyxenes</i>	Black Swallowtail	
<i>P. zelicaon</i>	Anise Swallowtail	3
<i>P. rutulus</i>	W. Tiger Swallowtail	
<i>P. multicaudata</i>	Two-tailed Swallowtail	
<i>Pontia protodice</i>	Checkered White	
<i>P. occidentalis</i>	Western White	
<i>Pieris rapae</i>	Cabbage White	
<i>Euchloe olympia</i>	Olympia Marble	9
<i>E. ausonides</i>	Large Marble	
<i>Colias philodice</i>	Clouded Sulphur	1
<i>C. eurytheme</i>	Orange Sulphur	
<i>Zerene cesonia</i>	Southern Dogface	
<i>Abaeis nicippe</i>	Sleepy Orange	
<i>Kricogonia lyside</i>	Lyside Sulphur	
<i>Nathalis iole</i>	Dainty Sulphur	
<i>Lycaena dione</i>	Gray Copper	
<i>Strymon melinus</i>	Gray Hairstreak	3
<i>Cupido amyntula</i>	W. Tailed-blue	
<i>Glaucopsyche lygdamus</i>	Silvery Blue	
<i>Euphilotes ancilla</i>	Rocky Mtn. Dotted-Blue	
<i>Echinargus isola</i>	Reakirt's Blue	
<i>Plebejus melissa</i>	Melissa Blue	
blue sp.		1
<i>Danaus plexippus</i>	Monarch	
<i>Agraulis vanilla</i>	Gulf Fritillary	
<i>Euptoieta claudia</i>	Variiegated Fritillary	
<i>Argynnis aphrodite</i>	Aphrodite Fritillary	
<i>A. edwardsii</i>	Edwards' Fritillary	
<i>Chlosyne fulvia</i>	Fulvia Checkerspot	
<i>C. gorgone</i>	Gorgone Checkerspot	1
<i>Phyciodes tharos</i>	Pearl Crescent	
<i>P. pulchella</i>	Field Crescent	1
<i>Aglais milberti</i>	Milbert's Tortoiseshell	
<i>Nymphalis antiopa</i>	Mourning Cloak	
<i>Vanessa atalanta</i>	Red Admiral	
<i>Vanessa cardui</i>	Painted Lady	
<i>Junonia coenia</i>	Common Buckeye	
<i>Limenitis weidemeyerii</i>	Weidemeyer's Admiral	
<i>Coenonympha tullia ochracea</i>	Common Ringlet	
<i>Cercyonis pegala</i>	Common Wood Nymph	
<i>Epargyreus clarus</i>	Silver Spotted Skipper	
<i>Erynnis afranius</i>	Afranius Duskywing	
<i>E. persius</i>	Persius Duskywing	
<i>Burnsius communis</i>	Common Checkered-skipper	
<i>Pyrgus scriptura</i>	Small Checkered-skipper	
<i>Pholisora catullus</i>	Common Sootywing	
<i>Hesperia uncas</i>	Uncas Skipper	
<i>H. ottoe</i>	Ottoe Skipper	
<i>H. leonardus</i>	Leonard's Skipper	
<i>Atrytone arogos</i>	Arogos Skipper	
<i>Anatrytone logan</i>	Delaware Skipper	

Southeast Grassland Buffer. Hwy 128 to Swallowtail Hill 10:15-Noon 25 deg C Clear sky, Slight wind.	5/12/2025	Zelacaon flying fast and three whirling around. Hairstreaks hiding in bushes; Marbles searching.	Amy Chu Mary Saunders Charlie Sanders Jan Chu
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2 Research Hours 8 Volunteer Hours

Southeast Buffer	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
# Species identified during the year in Southeast Buffer	25	20	21	24	19	18	20	15	23	13	16	18	12	17	16	17	13	6	6
Cumulative # Species 2007-2024 sighted in Southeast Buffer	21	23	33	37	41	44	44	44	46	46	47	47	47	47	47	48	48	48	48
Research Hours on Site	5	21	9	7.7	11.5	9	12	8	12	4.5	8	9	5.5	6.5	3.5	9.5	3.5	3	2
# Individual Butterflies Counted	256	373	353	443	160	227	169	178	294	121	119	271	39	57	478	175	115	38	19
# Individuals / Research Hour	51	18	39	40	14	25	14	22	24.5	27	15	30	7	8.8	139	18	33	13	10
# Species / Research Hour	5	0.9	2	3	2	2	1.6	2	2	3	2	2	2	2.6	4.2	1.8	3.7	2	3

C. Heil Ranch – Geer Watershed

Heil Ranch – Geer Watershed	2025	7/4	8/29
<i>Papilio polyxenes</i>	Black Swallowtail		
<i>P. zelicaon</i>	Anise Swallowtail		
<i>P. indra</i>	Indra Swallowtail		
<i>P. rutulus</i>	Western Tiger Swallowtail		
<i>P. eurymedon</i>	Pale Swallowtail	6	
<i>P. multicaudata</i>	Two-tailed Swallowtail		
swallowtail yel sp.		5	
<i>Neophasia menapia</i>	Pine White		
<i>Pontia sisymbrii</i>	Spring White		
<i>P. protodice</i>	Checkered White		
<i>P. occidentalis</i>	Western White		
<i>Pieri rapae</i>	Cabbage White	50	25
<i>P. marginalis</i>	Margined White		
<i>Euchloe ausonides</i>	Large Marble		
<i>E. olympia</i>	Olympia Marble		
<i>Anthocharis julia</i>	Julia Orangetip		
<i>Colias philodice</i>	Clouded Sulphur		
<i>C. eurytheme</i>	Orange Sulphur		1
<i>C. alexandra</i>	Queen Alexandra's Sulphur		
<i>C. cesonia</i>	Southern Dogface		
<i>Eurema mexicana</i>	Mexican Sulphur		
<i>Nathalis iole</i>	Dainty Sulphur		2
sulphur sp.		9	
<i>Lycaena dione</i>	Gray Copper		
<i>L. heteronea</i>	Blue Copper		
<i>Tharsalea hyllus</i>	Bronze Copper		
<i>Lycaena helloides</i>	Purplish Copper		
<i>Callophrys affinis homoperplexa</i>	Western Green Hairstreak		
<i>C. gryneus</i>	Siva Juniper Hairstreak		
<i>C. sheridanii</i>	White-lined Green Hairstreak		
<i>C. augustinus</i>	Brown Elfin		
<i>C. eryphon</i>	Western Pine Elfin		
<i>Satyrium titus</i>	Coral Hairstreak		
<i>S. liparops</i>	Striped Hairstreak		
<i>S. saepium</i>	Hedgerow Hairstreak		
<i>Strymon melinus</i>	Gray Hairstreak		
<i>Leptotes marina</i>	Marine Blue		
<i>Brephidium exile</i>	Western Pygmy-Blue		
<i>Cupido amyntula</i>	Western Tailed-Blue		
<i>Celastrina echo sidara</i>	Echo Azure		
<i>C. echo lucia</i>	“ Lucia type		
<i>C. humulus</i>	Hops Azure		
<i>Glaucopsyche piasus</i>	Arrowhead Blue		
<i>G. lydamus</i>	Silvery Blue		
<i>Euphilotes ancilla</i>	Rocky Mountain Dotted-Blue		

Heil Ranch – Geer Watershed	2025	7/4	8/29
<i>Echinargus isola</i>	Reakirt's Blue		13
<i>Plebejus melissa</i>	Melissa Blue		1
<i>P. saepiolus</i>	Greenish Blue		
<i>P. icarioides</i>	Boisduval's Blue		
<i>P. lupini lutzi</i>	Lupine Blue		
<i>P. glandon rustica</i>	Arctic Blue		
<i>Danaus plexippus</i>	Monarch		
<i>Apodemia nais</i>	Nais Metalmark		
<i>Euptoieta claudia</i>	Variegated Fritillary		
<i>Argynnis aphrodite</i>	Aphrodite Fritillary		2
<i>A. edwardsii</i>	Edwards' Fritillary		
<i>A. coronis</i>	Coronis Fritillary		
<i>A. callippe</i>	Callippe Fritillary		
<i>A. hesperis</i>	Northwestern Fritillary		
<i>A. mormonia</i>	Mormon Fritillary		
fritillary sp.			11
<i>Chlosyne gorgone</i>	Gorgone Checkerspot		
<i>C. nycteis</i>	Silvery Checkerspot		
<i>C. palla</i>	Northern Checkerspot		
<i>Phyciodes pallida</i>	Pallid (Pale) Crescent		
<i>P. tharos</i>	Pearl Crescent		
<i>P. cocyta</i>	Northern Crescent		
<i>P. pulchella</i>	Field Crescent		
<i>Polygonia satyrus</i>	Satyr Comma		
<i>P. gracilis</i>	Hoary Comma		
<i>Junonia coenia</i>	Common Buckeye	2	2
<i>Aglais milberti</i>	Milbert's Tortoiseshell		
<i>Nymphalis antiopa</i>	Mourning Cloak	1	1
<i>N. californica</i>	California Tortoiseshell		
<i>Vanessa atalanta</i>	Red Admiral	3	3
<i>V. cardui</i>	Painted Lady		
<i>V. virginiensis</i>	American Lady	12	12
<i>Limenitis weidemeyerii</i>	Weidemeyer's Admiral	1	1
<i>L. archippus</i>	Viceroy		
<i>Asterocampa celtis</i>	Hackberry Emperor	6	14
<i>Cercyonis pegala</i>	Common Wood-Nymph	5	5
<i>C. oetus</i>	Small Wood-Nymph		
<i>Erebia epipsodea</i>	Common Alpine		
<i>Oeneis chryxus</i>	Chryxus Arctic		
<i>O. uhleri</i>	Uhler's Arctic		
<i>Epargyreus clarus</i>	Silver-spotted Skipper		
<i>Cecropterus pylades</i>	Northern Cloudywing		
<i>Erynnis icelus</i>	Dreamy Duskywing		
<i>E. pacuvius</i>	Pacuvius Duskywing		
<i>E. afranius</i>	Afranius Duskywing		
<i>E. persius</i>	Persius Duskywing		
<i>Burnsius communis</i>	Common Checkered-skipper		

Heil Ranch – Geer Watershed	2025	7/4	8/29
<i>Piruna pirus</i>	Russet Skipperling		
<i>Oarisma garita</i>	Garita Skipperling		
<i>Hesperia leonardus pawnee</i>	Leonard's Skipper		1
<i>Hesperia juba</i>	Juba Skipper		2
<i>H. colorado</i>	Western Branded Skipper		
<i>H. nevada</i>	Nevada skipper		
<i>Polites themistocles</i>	Tawny-edged Skipper		
<i>P. peckius</i>	Peck's Slipper		
<i>Ochlodes sylvanoides</i>	Woodland Skipper		3
<i>Poanes taxiles</i>	Taxiles Skipper		
<i>Euphyes vestries</i>	Dun Skipper		
<i>Atrytonopsis hianna</i>	Dusted Skipper		
<i>Polites mystic</i>	Long Dash skipper		
Total			8

4.5 Research Hours 14 Volunteer Hours

Date Conditions	Location	Butterfly Activity	Animals	Researchers
7/4/2025 9:30-12:00 pm 25-28 °C Occasional breeze, domr clouds, sunny	Heil Ranch Geer Watershed			Dan Fosco Sue Hirschfeld
8/29/2025 9:15 -11:15 am 18-21 °C Overcast, no wind	Heil Ranch Geer Watershed Roadway From the parking lot (pavilion) to willows and sumac. Stream had water at that point on roadway toward Kevin's cabin.	Cabbage whites flying. Others are waiting for sun.		Chris Friedman Dan Fosco Sue Hirschfeld Jan Chu Jean Morgan Larry Crowley Linda Hardesty Sue Hirschfeld Venice Kelly

D. Heil Valley – Red Gulch

Heil-Geer Water-shed	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
# Species Identified Annually Geer plus	42	56	44	49	36	38	38	42	22	43	30	40	44	40	46	55	50	36	17
Cumulative # Species Geer plus 2007-2025	81	87	90	91	91	91	91	92	92	92	93	93	94	94	100	102	102	102	102
Research Hours at Sites	15.5	21	12.5	14	14	10	11	18	11	10	21	20	13.5	16.5	20	29	29	5	4.5.
# Individual Butterflies Counted	569	1225	492	419	436	530	264	738	200	488	628	665	584	346	2375	1847	1880	442	215
# Individuals / Research Hour	37	58	39	30	31	53	24	41	18	29	39	33	43	21	119	64	65	88	48
# Species / Research Hour	2.7	2.7	3.5	3.5	2.6	3.8	3.5	2.3	2	4.3	1.4	2	3.3	2.5	2.3	1.9	1.7	8	3.8

Heil Valley Ranch (North) Red Gulch Picture Rock Trail	2025	5/22	6/19	7/19
<i>Parnassius smintheus</i>	Rocky Mountain Parnassian			
<i>Papilio polyxenes</i>	Black Swallowtail			
<i>P. zelicaon</i>	Anise Swallowtail			
<i>P. indra</i>	Indra Swallowtail			
<i>P. rutulus</i>	Western Tiger Swallowtail	3	1	1
<i>P. eurymedon</i>	Pale Swallowtail			
<i>P. multicaudata</i>	Two-tailed Swallowtail	2	4	5
<i>Neophasia menapia</i>	Pine White			
<i>Pontia protodice</i>	Checkered White			
<i>P. occidentalis</i>	Western White			2
<i>P. sisymbrii</i>	Spring White			
<i>Pieris rapae</i>	Cabbage White	2	21	26
white sp.		7		
<i>Euchloe ausonides</i>	Large Marble			
<i>E. olympia</i>	Olympia Marble			
<i>Anthocharis julia</i>	Julia Orangetip			
<i>Colias philodice</i>	Clouded Sulphur			5
<i>C. eurytheme</i>	Orange Sulphur		8	10
<i>C. alexandra</i>	Queen Alexandra's Sulphur			
<i>Nathalis iole</i>	Dainty Sulphur			
<i>Zerene cesonia</i>	Southern Dogface			
<i>Lycaena dione</i>	Gray Copper			
<i>Lycaena heteronea</i>	Blue Copper	1		
<i>L. helloides</i>	Purplish Copper			
<i>Callophrys affinis</i>	Western Green Hairstreak			
<i>C. gryneus</i>	Siva Juniper Hairstreak			

<i>C. sheridanii</i>	White-lined Green Hairstreak			
<i>C. eryphon</i>	Western Pine Elfin	4		
<i>Satyrrium behrii</i>	Behr's Hairstreak			
<i>S. titus</i>	Coral Hairstreak			
<i>Strymon melinus</i>	Gray Hairstreak			1
<i>Leptotes marina</i>	Marine Blue			
<i>Cupido amyntula</i>	Western Tailed-blue			
<i>Celastrina echo sidara</i>	Echo Azure	1		
<i>C. humulus</i>	Hops Azure			
<i>Glaucopsyche piasus</i>	Arrowhead Blue			
<i>G. lygdamus</i>	Silvery Blue	30		
<i>Euphilotes ancilla</i>	Rocky Mountain Dotted-blue	3		2
<i>Euphilotes ancilla barnesi</i>	ssp. RM Dotted-blue ID - Opler			
<i>Echinargus isola</i>	Reakirt's Blue			2
<i>Plebejus melissa</i>	Melissa Blue	3	5	24
<i>Plebejus saepiolus</i>	Greenish Blue			
<i>P. icarioides</i>	Boisduval's Blue			
<i>P. lupini lutzi</i>	Lupine Blue			
<i>P. glandon rustica</i>	Arctic Blue			
blue sp.		10	2	7
<i>Libytheana carinenta</i>	American Snout			
<i>Danaus plexippus</i>	Monarch			
<i>Limenitis archippus</i>	Viceroy			
<i>Euptoieta claudia</i>	Variegated Fritillary		5	8
<i>Argynnis aphrodite</i>	Aphrodite Fritillary		8	15
<i>A. edwardsii</i>	Edwards' Fritillary			
<i>A. coronis</i>	Coronis Fritillary			
<i>A. callippe</i>	Callippe Fritillary			
fritillary sp.			11	
<i>A. hesperis</i>	Northwestern Fritillary			
<i>A. mormonia</i>	Mormon Fritillary			
fritillary sp.				
<i>Euphydryas anicia</i>	Variable Checkerspot			
<i>Chlosyne gorgone</i>	Gorgone Checkerspot			
crescent/checkerspot				
<i>C. nycteis</i>	Silvery Checkerspot			
<i>C. palla</i>	Northern Checkerspot			
<i>Phyciodes pallida</i>	Pallid (Pale) Crescent			
<i>P. tharos</i>	Pearl Crescent			
<i>P. cocyta</i>	Northern Crescent			
<i>P. pulchella</i>	Field Crescent	1		
crescent sp.		1		
<i>Polygonia satyrus</i>	Satyr Comma			
	Green Comma			
<i>P. gracilis</i>	Hoary Comma			
<i>Nymphalis antiopa</i>	Mourning Cloak	1		
<i>Junonia coenia</i>	Buckeye, Common			
<i>N. californica</i>	California Tortoiseshell			
<i>Vanessa atalanta</i>	Red Admiral	2	7	5
<i>Aglais milberti</i>	Milbert's Tortoiseshell			
<i>V. cardui</i>	Painted Lady			1
<i>V. virginiensis</i>	American Lady			
	West Coast Lady			1
<i>Limenitis weidemeyerii</i>	Weidemeyer's Admiral			
<i>Limenitis archippus</i>	Viceroy			
<i>Asterocampa celtis</i>	Hackberry Emperor		2	3

<i>Coenonympha californica ochracea</i>	Ochre (Common) Ringlet	15		
<i>Cercyonis pegala</i>	Common Wood-Nymph		8	5
<i>C. oetus</i>	Small Wood-Nymph			
wood nymph sp.				
<i>Erebia epipsodea</i>	Common Alpine			
<i>Epargyreus clarus</i>	Silver-spotted Skipper			
<i>E. pacuvius</i>	Pacuvius Duskywing	1		
<i>E. persius</i>	Persius Duskywing			
<i>E. icelus</i>	Dreamy Duskywing			
duskywing sp				
<i>Burnsius communis</i>	Common Checkered-skipper	3	13	11
<i>Pholisora catullus</i>	Common Sootywing	5		
<i>Piruna pirus</i>	Russet Skipperling		4	1
<i>Oarisma garita</i>	Garita Skipperling			
<i>Hesperia juba</i>	Juba Skipper	8		
<i>H. colorado</i>	W. Branded Skipper			
<i>H. pahaska</i>	Pahaska Skipper			
<i>H. viridis</i>	Green Skipper			
<i>H. nevada</i>	Nevada Skipper			
<i>Polites themistocles</i>	Tawny-Edged Skipper			
<i>P. mystic</i>	Long Dash			
<i>Atrytone arogos</i>	Arogos Skipper			1
<i>Ochlodes sylvanoides</i>	Woodland Skipper			
<i>Poanes taxiles</i>	Taxiles Skipper			
<i>Euphyes vestries</i>	Dun Skipper			
<i>Atrytonopsis hianna</i>	Dusted Skipper			
Skipper sp		8	5	6

Heil Valley Ranch (North) Red Gulch	Location	Blossoming Plants	Animals	Researchers
5/22/2025 10:15-12:15 pm 13 -20 °C Winds 2, , Sunny	Red Gulch (Ron LaFolette's)	Blues puddling below drain tile, others fast flying past		Mary Saunders Charlie Saunders Amy Chu Jan Chu Chris Linda Hardesty
7/19/2025 9:00-12:00 pm 26 -28 °C Light partial clouds, little wind,Sunny	Red Gulch short walk along creeklet. Only moisture from basement tile.		50" Bull Snake	Amy Chu Barbara Fahey Chris Friedman Linda Hardesty Jean Morgan Jan chu

Heil Valley Ranch - Plumely Crossing		2025	5/9/	5/30/	7/4/	7/18/
5 Hours County	<i>Papilio polyxenes</i>	Black Swallowtail				
	<i>P. zelicaon</i>	Anise Swallowtail				
	<i>P. indra</i>	Indra Swallowtail				
	<i>P. rutulus</i>	Western Tiger Swallowtail			1	1
	<i>P. eurymedon</i>	Pale Swallowtail		3	2	
	<i>P. multicaudata</i>	Two-tailed Swallowtail			2	
	Swallowtail yel sp.			2	7	3
	<i>Neophasia menapia</i>	Pine White				
	<i>Pontia sisymbrii</i>	Spring White				
	<i>P. protodice</i>	Checkered White				
	<i>P. occidentalis</i>	Western White				
	<i>Pieri rapae</i>	Cabbage White	16	10	8	51
	<i>P. marginalis</i>	Margined White			1	
	<i>Euchloe ausonides</i>	Large Marble				
	<i>E. olympia</i>	Olympia Marble				
	<i>Anthocharis sara julia</i>	Julia Orangetip				
	white sp.				31	
	<i>Colias philodice</i>	Clouded Sulphur				
	<i>C. eurytheme</i>	Orange Sulphur				2
	<i>C. alexandra</i>	Queen Alexandra's Sulphur				
<i>C. cesonia</i>	Southern Dogface					
<i>Nathalis iole</i>	Dainty Sulphur					
sulphur sp.				1	2	
<i>Lycaena dione</i>	Gray Copper					
<i>L. heteronea</i>	Blue Copper					
<i>Tharsalea hyllus</i>	Bronze Copper					
<i>Lycaena helloides</i>	Purplish Copper					

**Research Hours
30 Volunteer
for Boulder**

Heil Valley Ranch (North) Red Gulch	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
# of Species Identified During season in Heil-North	34	45	41	40	33	24	30	50	38	31	33	50	35	32	31	48	29	25	30
Cumulative # Species 2007-2024 Sighted in Heil-North	50	62	77	81	81	85	86	89	90	91	91	92	93	93	93	95	95	96	97
Research Hours on Site	8	17	12.5	11.5	11.5	6.5	12	27	32	13	7.5	13.5	12	8	8	12.5	15	8	5
# Individual Butterflies Counted 2024	579	654	488	429	272	188	402	1077	508	246	204	442	359	298	675	940	259	383	345
# Individuals / Research Hour	72	38	39	37	24	29	36	40	16	19	27	33	29	37	84	75	20	42	69
# Species / Research Hour	4	2.6	3.3	3.4	2.9	3.6	2.5	1.9	1.2	2.4	4.4	3.7	2.9	4.7	3.9	3.8	2	4.5	4.5

Heil Valley Ranch - Plumely Crossing	2025	2025/9				
<i>Callophrys affinis homoperplexa</i>	Western Green Hairstreak			1		
<i>C. gryneus</i>	Siva Juniper Hairstreak					
<i>C. sheridanii</i>	White-lined Green Hairstreak					
<i>C. augustinus</i>	Brown Elfin					
<i>C. eryphon</i>	Western Pine Elfin					
elfin sp.						
<i>Satyrium titus</i>	Coral Hairstreak					
<i>S. liparops</i>	Striped Hairstreak					
<i>S. saepium</i>	Hedgerow Hairstreak					
<i>Strymon melinus</i>	Gray Hairstreak					
hairstreak sp.	hairstreak sp.					
<i>Leptotes marina</i>	Marine Blue					
<i>Brephidium exile</i>	Western Pygmy-Blue					
<i>Cupido amyntula</i>	Western Tailed-Blue	2	1	1	2	
<i>Celastrina echo sidara</i>	Echo Azure	7		3	2	
<i>C. echo lucia</i>	“ Lucia type					
<i>C. humulus</i>	Hops Azure					
<i>Glaucopsyche piasus</i>	Arrowhead Blue					
<i>G. lygdamus</i>	Silvery Blue	6	8	5		
<i>Euphilotes ancilla</i>	Rocky Mountain Dotted-Blue				2	
<i>Echinargus isola</i>	Reakirt's Blue				9	
<i>Plebejus melissa</i>	Melissa Blue				8	
<i>P. saepiolus</i>	Greenish Blue					
<i>P. icarioides</i>	Boisduval's Blue		6	3	1	
<i>P. lupini lutzi</i>	Lupine Blue					
<i>P. glandon rustica</i>	Arctic Blue					
blue sp.		8	5			
<i>Danaus plexippus</i>	Monarch					
<i>Apodemia nais</i>	Nais Metalmark					
<i>Euptoieta claudia</i>	Variiegated Fritillary					
<i>Argynnis aphrodite</i>	Aphrodite Fritillary				57	
<i>A. edwardsii</i>	Edwards' Fritillary				1	
<i>A. coronis</i>	Coronis Fritillary					
<i>A. hesperis</i>	Northwestern Fritillary					
<i>Ax. mormonia</i>	Mormon Fritillary					
fritillary sp.			1		1	
<i>Chlosyne gorgone</i>	Gorgone Checkerspot					
<i>C. nycteis</i>	Silvery Checkerspot					
<i>C. palla</i>	Northern Checkerspot					
<i>Phyciodes pallida</i>	Pallid (Pale) Crescent					
<i>P. tharos</i>	Pearl Crescent					
<i>P. cocyta</i>	Northern Crescent					
<i>P. pulchella</i>	Field Crescent	2	1			
<i>Polygonia satyrus</i>	Satyr Comma					
<i>P. gracilis</i>	Hoary Comma			1	2	

<i>Polygonia</i> sp.				1	
<i>Junonia coenia</i>	Common Buckeye				2
<i>Aglais milberti</i>	Milbert's Tortoiseshell				
<i>Nymphalis antiopa</i>	Mourning Cloak				
<i>N. californica</i>	California Tortoiseshell				
<i>Vanessa atalanta</i>	Red Admiral			1	3
<i>V. cardui</i>	Painted Lady				2
<i>V. virginiensis</i>	American Lady		3	2	2
<i>Limenitis weidemeyerii</i>	Weidemeyer's Admiral			11	
<i>L. archippus</i>	Viceroy			1	
<i>Asterocampa celtis</i>	Hackberry Emperor				
<i>Coenonympha californica ochracea</i>	Common Ringlet		10	4	
<i>Cercyonis pegala</i>	Common Wood-Nymph				6
<i>C. oetus</i>	Small Wood-Nymph				
<i>Erebia epipsodea</i>	Common Alpine				
<i>Oeneis chryxus</i>	Chryxus Arctic				
<i>O. uhleri</i>	Uhler's Arctic				
<i>Epargyreus clarus</i>	Silver-spotted Skipper				1
<i>Thorybes pylades</i>	N. Cloudywing			1	
<i>Erynnis icelus</i>	Dreamy Duskywing				
<i>E. pacuvius</i>	Pacuvius Duskywing	3	12	3	1
<i>E. persius</i>	Persius Duskywing	2	3	1	
<i>Burnsius communis</i>	Common Checkered-skipper				4
<i>Pholisora catullus</i>	Common Sootywing				
<i>Piruna pirus</i>	Russet Skipperling				1
<i>Oarisma garita</i>	Garita Skipperling				
<i>Hesperia leonardus pawnee</i>	Leonard's Skipper				
<i>Hesperia juba</i>	Juba Skipper		5		1
<i>H. colorado</i>	Western Branded Skipper				
<i>H. nevada</i>	Nevada Skipper				
<i>Polites themistocles</i>	Tawny-edged Skipper				
<i>P. peckius</i>	Peck's Slipper				
<i>Ochlodes sylvanoides</i>	Woodland Skipper				
<i>Poanes taxiles</i>	Taxiles Skipper				
<i>Euphyes vestries</i>	Dun Skipper			20	7
<i>Atrytonopsis hianna</i>	Dusted Skipper				
<i>Polites mystic</i>	Long Dash skipper				
skipper sp.					

Heil Plumely		
May 9, 2025 12:30-1:30 p.m. 18-24 C Slight breeze, some cumulus	Blues puddling, flying and puddling	Sue Hirschfeld
5/30/2025 10:30-12:30 pm 22-26 °C, sunny, passing clouds No wind.	Wet ground attracted butterflies along the road to crossing. Diversity of blues and other species at crossing.	Sue Hirschfeld
6/12/2025 10:30-12:30 pm 25-29 °C, High clouds, no wind	Dun skippers and Wedemeyer's at stream. Splashed badly by two boys on bikes.	Sue Hirschfeld
6/26/2025 10:00-12:00 pm 23-27 °C, calm, bright Few cumulus.	Butterflies puddling in few moist spots. Fritillaries and American Lady on small poop on the road.	Sue Hirschfeld
7/4/2025 9:30-11:00 am 75-77 deg F Occasional breeze, sun with some clouds		Joe Krieg
Heil Plumely No cumulative chart 8.5 Research Hours	8.5 Volunteer Hours for Boulder County	

Walker Ranch-Meyer's	2025	5/30/	6/15/
Homestead Trail			
<i>Parnassius smintheus</i>	Rocky Mountain Parnassian	1	8
<i>Papilio polyxenes</i>	Black Swallowtail		
<i>P. zelicaon</i>	Anise Swallowtail		
<i>P. indra</i>	Indra Swallowtail		
<i>P. rutulus</i>	Western Tiger Swallowtail		
<i>P. eurymedon</i>	Pale Swallowtail		3
<i>P. multicaudata</i>	Two-tailed Swallowtail		1
swallowtail sp.	swallowtail sp.		
<i>Neophasia menapia</i>	Pine White		
<i>Pontia protodice</i>	Checkered White		
<i>P. sisymbrii</i>	Spring White		
<i>P. occidentalis</i>	Western White		
<i>Pieris rapae</i>	Cabbage White		
white sp.	white sp.	6	6
<i>Euchloe ausonides</i>	Large Marble	5	6
<i>Anthocharis julia</i>	Julia Orangetip	5	1
<i>Colias philodice</i>	Clouded Sulphur		
<i>C. eurytheme</i>	Orange Sulphur		2
<i>C. alexandra</i>	Queen Alexandra's Sulphur		
<i>Nathalis iole</i>	Dainty Sulphur		1
sulphur sp.	sulphur	2	3
<i>Lycaena heteronea</i>	Blue Copper		
<i>Satyrium saepium</i>	Hedgerow Hairstreak		
<i>Callophrys affinis</i>	W. Green Hairstreak	12	12
<i>C. sheridani</i>	White-line Green Hairstreak		
<i>C. gyrneus siva</i>	Siva Juniper Hairstreak		
<i>C. spinetorum</i>	Thicket Hairstreak		
hairstreak sp			
<i>C. augustinus</i>	Brown Elfin		
<i>C. polios</i>	Hoary Elfin	2	
<i>C. eryphon</i>	Western Pine Elfin	10	6
elfin sp.	elfin sp.	3	
<i>Strymon melinus</i>	Gray Hairstreak		
<i>Cupido amyntula</i>	Western Tailed-Blue		
<i>Celestrina echo</i>	Echo Azure	30	2
<i>Glaucopsyche piasus</i>	Arrowhead Blue		1
<i>G. lydamus</i>	Silvery Blue	2	1
<i>Euphilotes ancilla</i>	Rocky Mountain Dotted-Blue		4
<i>Echinargus isola</i>	Reakirt's Blue		
<i>Plebejus melissa</i>	Melissa Blue		
<i>P. saepiolus</i>	Greenish Blue		
<i>P. icarioides</i>	Boisduval's Blue	1	6
<i>P. lupini lutzi</i>	Lupine Blue		

Walker Ranch-Meyer's Homestead Trail	2025		
<i>Agriades glandon rustica</i>	Arctic Blue		
blue sp.	blue sp.		
<i>Danaus plexippus</i>	Monarch		
<i>Apodemia nais</i>	Nais Metalmark		
<i>Euptoieta claudia</i>	Variegated Fritillary		
<i>Speyeria aphrodite</i>	Aphrodite Fritillary		
<i>S. edwardsii</i>	Edwards' Fritillary		1
<i>S. callippe</i>	Callippe Fritillary		
<i>S. hesperis</i>	Northwestern Fritillary		
<i>S. mormonia</i>	Mormon Fritillary		
fritillary sp.			2
<i>Chlosyne gorgone</i>	Gorgone Checkerspot		
<i>C. nycteis</i>	Silvery Checkerspot		
<i>C. palla</i>	Northern Checkerspot		4
<i>Phyciodes cocyta</i>	Northern Crescent		
<i>P. pulchella</i>	Field Crescent	13	5
<i>Phyciodes pallida</i>	Pallid (Pale) Crescent		
<i>Polydryas arachne</i>	Arachne Checkerspot		
<i>Euphydryas anicia</i>	Variable Checkerspot		
<i>Polygonia faunus</i>	Green Comma		
<i>Polygonia satyrus</i>	Satyr Comma		
<i>Polygonia gracilis</i>	Hoary Comma	1	3
Comma sp.	comma		
<i>Aglais milberti</i>	Milbert's Tortoiseshell		
<i>Nymphalis antiopa</i>	Mourning Cloak		
<i>N. californica</i>	California Tortoiseshell		
<i>Vanessa atalanta</i>	Red Admiral	1	
<i>V. cardui</i>	Painted Lady		
<i>V. virginienensis</i>	American Lady		
<i>Limnitis weidemeyerii</i>	Weidemeyer's Admiral		1
<i>Coenonympha californica ochracea</i>	Common Ringlet		5
<i>Cercyonis pegala</i>	Common Wood Nymph		
<i>C. oetus</i>	Small Wood Nymph		
<i>Erebia epipsodea</i>	Common Alpine		
<i>Oeneis chryxus</i>	Chryxus Arctic		
<i>O. uhleri</i>	Uhler's Arctic		5
<i>Erynnis icelus</i>	Dreamy Duskywing	1	
<i>E. pacuvius</i>	Pacuvius Duskywing		
<i>E. persius</i>	Persius Duskywing	15	
duskywing sp.	duskywing		
Walker Ranch-Meyer's Homestead	2025		

F. Walker Ranch	2025	5/30	6/15
<i>Burnsius communis</i>	Common Checkered-skipper		
<i>Pholisora catullus</i>	Common Sootywing		
<i>Piruna pirus</i>	Russet Skipperling		
<i>Oarisma garita</i>	Garita Skipperling		
<i>Hesperia uncas</i>	Uncas Skipper		
<i>H. juba</i>	Juba Skipper		
<i>H. colorado</i>	Western Branded Skipper		
<i>Polites themistocles</i>	Tawny-edged Skipper		
<i>P. mystic</i>	Long Dash		
<i>Ochlodes sylvanoides</i>	Woodland Skipper		
<i>Poanes taxiles</i>	Taxiles Skipper		
<i>Euphyes vestris</i>	Dun Skipper		
skipper sp.			
Total			

Conditions	Location	Blooming Plants	Animals	Researchers
5/30/2025 11:30 am – 1:30 pm Temp 68 -72 Mostly sunny, hazy, slight breeze	Lower Walker Loop-South Boulder Trail			Dan Fosco
6/15/2025 10:15- am-1:30 pm 78-83 F mostly sunny, some breezy	Homestead Trail			Dan Fosco

5 Research Hours 5 Research Volunteer Hours for Boulder County

Walker Ranch, Meyer's Homestead Trail	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
# Species Identified during season in Walker	30	35	45	35	50	47	62	43	45	43	31	58	47	37	55	52	38	30	25
# Species Sighted in Walker Ranch 2007-2025	33	38	60	70	75*	78*	79*	80*	81*	81*	83*	84*	84*	84*	85	86	86	86	86
# Research Hours on Site	5	4	18	16	16.5	7	14.5	11	29	17	13.5	53	27	6	28	25.5	17.5	15	5
# Individual Butterflies Counted	160	203	1144	437	472	399	394	322	351	549	299	759	449	305	905	561	443	215	95
# Individual Butterflies / Research Hour	32	54	64	27	29	57	27	29	12	32	22	14	16	51	32	22	25	13	19
# Species / Research Hour	6.0	8.8	2.5	2.2	3.0	6.7	4.3	3.9	1.5	2.5	2.3	1	1.7	6.1	2.0	2.0	2.2	2	5

G. Sherwood Transect – Caribou Ranch

Sherwood	2025	5/3	5/10	5/23	6/1	6/7	6/10	6/16	6/18	6/27	7/2	7/13	7/22	7/26	7/28	8/2	8/13	8/17	8/20
<i>Parnassius smintheus</i>	Rocky Mountain Parnassian					1	2	3	3	16	3	6	4	2	1				
<i>Battus philenor</i>	Pipevine Swallowtail																		
<i>Papilio polyxenes</i>	Black Swallowtail																		
<i>P. zelicaon</i>	Anise Swallowtail				1					1			1						
<i>P. rutulus</i>	W. Tiger Swallowtail					1	2	2	2	5	2	2	2	1	1	2			
<i>P. eurymedon</i>	Pale Swallowtail				2				2	3	3	1	1						
<i>P. multicaudata</i>	Two-tailed Swallowtail														1	1			
<i>Neophasia menapia</i>	Pine White																1	4	5
<i>Pontia sisymbrii</i>	Spring White																		
<i>Pontia protodice</i>	Checkered White														1				
<i>P. occidentalis</i>	Western White																		
<i>Pieris rapae</i>	Cabbage White			1									3			1	1		3
<i>P. marginalis</i>	Margined White														2	1			
<i>Euchloe ausonides</i>	Large Marble		1	3	10	4	9	5	2										
<i>Anthocharis julia</i>	Julia Orangetip	3	6	7	8	6	5	4	4										
white sp.			1		1	3		1			4	4	4			2		2	
<i>Colias philodice</i>	Clouded Sulphur						1	4		1	3				2			1	2
<i>C. eurytheme</i>	Orange Sulphur				1			8	7	7	1	9	5	5	2	5	2	3	7
<i>C. alexandra</i>	Queen Alexandra's Sulphur									5	19	40	20	16	12	12		2	6
<i>Phoebis sennae eubule</i>	Cloudless Sulphur																		
<i>Eurema mexicana</i>	Mexican Yellow																		
<i>Abaeis nicippe</i>	Sleepy Orange																		
<i>Nathalis iole</i>	Dainty Sulphur									1	4	2	1			3			1
Sulphur sp						1													
<i>Tharsalea editha</i>	Edith's Copper												2						
<i>Lycaena rubidus</i>	Ruddy Copper											2	1	1		2			
<i>Tharsalea heteronea</i>	Blue Copper														3				
<i>Lycaena helloides</i>	Purplish Copper											4	2	1		2			

<i>A. hesperis</i>	Northwestern Fritillary											1	2	3	1				
<i>A. mormonia</i>	Mormon Fritillary													3					1
Fritillary sp.							1			1		1	3	1		4			2
<i>Poladyas arachne</i>	Arachne Checkerspot																		
<i>Chlosyne gorgone</i>	Gorgone Checkerspot																		
<i>C. nycteis</i>	Silvery Checkerspot							2	3		8								
<i>C. palla</i>	Northern Checkerspot									5	6	9	5						
<i>Phyciodes pallida</i>	Pallid Crescent																		
<i>P. tharos</i>	Pearl Crescent																		
<i>P. cocyta</i>	Northern Crescent					1		1				3			1	1			
<i>P. pulchella</i>	Field Crescent				2	7	7	3	3		6	2			1		2	5	2
<i>Euphydryas anicia</i>	Variable Checkerspot										1	1	3			1			
<i>Polygonia faunus</i>	Green Comma		1	1															
<i>P. gracilis</i>	Hoary Comma	3	1	3	2		1		2		1	1	1		2				
<i>P. satyrus</i>	Satyr Comma																		
comma sp.						1						1							
<i>Junonia coenia</i>	Common Buckeye																		
<i>Nymphalis californica</i>	California Tortoiseshell																		
<i>Aglais milberti</i>	Milbert's Tortoiseshell																		
<i>Nymphalis antiopa</i>	Mourning Cloak	1	4	3	2		1				1	1							
<i>Vanessa atalanta</i>	Red Admiral								1										
<i>V. cardui</i>	Painted Lady																		
<i>V. virginiana</i>	American Lady																		
<i>Danaus plexippus</i>	Monarch																		
<i>Limenitis weidemeyeri</i>	Weidemeyer's Admiral							1		2	2	4	4	5	7			1	
<i>Limenitis archippus</i>	Viceroy																		
<i>Coenonympha californica ochracea</i>	Common (Ochre) Ringlet							1	1	8	7	2							

<i>Cercyonis pegala</i>	Common Wood-Nymph																		
<i>C. oetus</i>	Small Wood-Nymph									2	1 2	12	17	2 2	14	21	15		
<i>Erebia epipsodea</i>	Common Alpine							1											
<i>Oeneis chryxus</i>	Chryxus Arctic																		
<i>O. uhleri</i>	Uhler's Arctic																		
<i>**O. jutta</i>	Jutta Arctic																		
<i>Cecropterus pylades</i>	Northern Cloudywing																		
<i>Erynnis icelus</i>	Dreamy Duskywing			7	2	2	4		3										
<i>E. pacuvius</i>	Pacuvius Duskywing			1	1	2	1		1		2			1					
<i>E. persius</i>	Persius Duskywing	1		5	5	12	15	15	23	10		9	1						
Duskywing sp.										2									
<i>Cecropterus pylades</i>	Northern Cloudywing																		
<i>Thorybes mexicana</i>	Cloudywing Mexican																		
<i>Pyrgus ruralis</i>	Two-banded Checkered-Skipper	2	1	6	1														
<i>Burnsius communis</i>	Common Checkered-Skipper							1	2			2		1					
<i>Piruna pirus</i>	Russet Skipperling											5	2						
<i>Oarisma garita</i>	Garita Skipperling																		
<i>Hesperia juba</i>	Juba Skipper																		
<i>H. colorado</i>	Western Branded Skipper																2	3	
<i>H. colorado ochracea</i>	Ochre Branded Skipper																		
<i>H. pahaska</i>	Pahaska Skipper																		
<i>H. viridis</i>	Green Skipper																		
<i>H. nevada</i>	Nevada Skipper							1	1	2									
<i>Polites draco</i>	Draco Skipper																		
<i>P. mystic</i>	Long Dash																		
<i>Lon taxiles</i>	Taxiles Skipper																		
<i>Ochlodes sylvanoides</i>	Woodland Skipper																		3
<i>Paratrytone snowi</i>	Snow's Skipper																		

<i>Euphyes vestries</i>	Dun Skipper																		
Total									6/27										1

Date, time, temp. sky, wind	Location	Butterfly Behavior	Researcher
5/3	Sherwood transect		
5/10/2025 11:30 am-1:30 pm 11-18 °C, blue sky	Sherwood transect	Laraage Marble flitting then landing for nectar. Pine elfings chasing. Mourning Cloaks patrolling. Hoary elfins and Two-checked survived May snowstorm.	Venice Kelly
5/23/2025 10:15 am -12:45 pm 13-18°C, breezy, 40% cloud cover	Sherwood Transect	Seep water ran the length of the road. Julia's flying constantly .Two-bandeds made a showing where I don't usually see them.	Venice Kelly
6/1/2025 10:45-12:45pm 18-26 °C, full sun. Clouds developed.	Sherwood Transect	Large marbles hovering over Mustards. Julias flying fast. Hoary comma ovipositing on current bushes.	Venice Kelly Jeff Maclachlan
6/7/2025 10:30-2:15 pm 13-18 °C, breezy 40% cloud cover	Sherwood Transect	Orangetips patrolling; one pounced. Plenty of mud at seep. Crescents at Bridge Meadow and blue fly-bys	Venice Kelly Wynne Whyman
6/10/2025 10:45-11:00 am 13-22 °C, breezy 30-50%cloudy	Sherwood Transect	Seep flowing far down the road attracting more butterflies. Thicket Hairstreak nectaring on mtn. parsley.	Venice Kelly
6/16/2025 10:00-1:00pm 22-26 °C, sunny	Sherwood Transect	Water still flowing down the road – birds, butterflies and bees, enjoying. Happy to see Nevada's skippers.	Venice Kelly
6/18/2025 11:30-2:30 pm. Blue sky	Sherwood Transect	Many insects at seep. Persius nectaring on golden banner and puddling Pine elfins nectaring on parsley , flying on road.	Venice Kelly Susan Spaulding David Hirt
6/27/2025 9:45-1:00p;m 20-24 °C,	Caribou Open Space – Big Meadow	Northern checkerspot 10 days late and dark form mating pair. Tiny Boisduval's	Venice Kelly Charlie and Mary Saunders
7/2/2025 9:45 am-12:30 pm 21-24°C, sun	Sherwood Transect	Courtship in dotted blues, boisduvaall blues silverd heckerspots. Water not flowing far down road, some moisture .first Lupine blue of the seaseon	Venice Kelly
7/13/2025 9:45-12:30 pm 65-74 Deg F , 20% cloud	Sherwood Transect	White form of Queen, interest shown by male QA. Checkerspots courtship mode. Skipperlings puddling a seep.	Venice Kelly jeff MacLachlan
7/22/2025 9:30 am-2:45 pm 18-24 °C, Blue sky to cloudy to rain.	Sherwood Transect	Some wing damage after rain. .Fresh dark form Northern checkerspot.	Venice Kelly Synne Whyman Suzanne..
7/26/2025 11:00 am-2:30 pm 23 C, mostly cloudy.	Sherwood Transect Bridge Meadow	Melissa Blue showed finally. Tailed 'blues, Weidemeyer's patrolling. Ruddy nectar on purple asters.	Venice Kelly Jane Billings
7/28/2025 9:45 am- 12:30 pm 24 C, sunny.	Bluebird Mine	Blue Coppers courting; Queen Alexander's, Small Weed nymphs, Weidemeyer's in good numbers	Venice Kelly Monica Tymcio
8/2/25 10:00-12:30 pm 18-23 °C 65% clouds	Sherwood Transect	Reikirts Blue ovipositing on Red Clover. Glad to see 2-tailed Swallowtail. 2 Ruddy Coppers chasing, maintaining their territories. Variegated Frits were quite small.	Venice Kelly Jeff Maclachlan

8/13/2025 10:00-12:30pm 19-26 °C	Caribou Open Space	Crescents were chasing. Pine White in tree top. Very dry between plants.	Venice Kelly Jan Chu Senior Walk from Frasier apts.
8/17/2025 3.5 hours 26-32 °C, mostly calm winds, some moderate	4,2+ mi. full loop plus Bluebird mine from Caribou Parking	3 Pine whites flying in pine treetops. One hot ground squirrel who spread out on the dirt to get cooler.	Wynne Whyman
8/20/2025 Clouds 5-20%	Walked on roadway, not to seep; Bridge Meadow,	Lower Bridge Meadow is still lush. Two Field Crescents were courting. Added Morman Fritillary.	Venice Kelly

SHERWOOD TRANSECT – CARIBOU RANCH

47.5 Research Hours

66 Volunteer Hours for Boulder County

Caribou Ranch- Sherwood Road	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
# Species Identified in Sherwood	48	48	40	20	46	28	38	47	55	50	59	61	65	64	71	70	68	69	64
Cumulative # Species Sighted in Caribou-Sherwood	75	75	80	80	81	82	83	83	84	85	86	88	88	95	97	98	98	100	100
Research Hours on Site	10	12	8.5	6	12.5	8	8	14	15	10	27.5	43	53	57.5	71.5	73.5	70.5	49.5	47.5
Individual Butterflies Counted	35 8	64 7	27 8	14 5	488	30 4	36 1	75 2	58 7	65 7	770	107 1	233 6	169 2	208 0	209 2	204 3	110 3	134 2
Individuals /Research Hour	36	54	33	24	39	38	45	54	39	65	28	25	44	29	29	28.5	29	22.3	28
Species/ Research Hour	4.8	4.0	4.7	3.3	3.7	3.5	4.8	3.4	3.6	5.0	2.0	1.0	1.2	1.1	1.0	1.0	1.0	1.4	1.3

X. APPENDIX

A. Braly and Western Mobile 2025

Braly – Western Mobile Lake 3 - South and east shore roads, June 13, 2025

Researchers: Susan Spaulding, Linda Hardesty, Chris Friedman, Pam Piombino, Ann Cooper, Barbara Fahey, Lacey Huffman, Charlie Saunders, Mary Saunders.

June 13, 2025; 10:20- 12:00 noon. 22 deg. C, sunny, 10% clouds becoming 20% cloudy, wind 4 mph.

Lepidoptera

- 2 Yellow swallowtail
- 3 2-tailed Swallowtail
- 59 cabbage white
- 15 white species
- 10 Orange Sulphur
- 2 Sulphur
- 9 Viceroy/Monarch
- 1 Viceroy
- 6 Silver Spotted Skipper
- 1 Common Checkered-skipper

Odonata

- 50+ male and female Plains forktail
- 10 male and female Common bluets
- 3 female or imm. Blue Dasher
- no ID =in flight Darner sp.
- no ID, =wrong photo angle Skimmer sp.

Other Arthropods

- 1 Calligrapher flies
- 2 Drone flies
- 3 Crab spider

Birds

- Black-capped Chickadee
- 5 Canada Geese
- Cliff Swallow
- 2 Double-crested Cormorant
- Downy Woodpecker
- 3 Eastern Kingbird
- Killdeer
- heard- Mourning dove
- Red-tailed hawk
- 4 Red-winged blackbird
- Song Sparrow
- 1 Turkey Vulture
- Western tanager

Plants

- Alsike clover
- Alyssum, hoary – *Berteroa incana*
- Aster, tansy leaf – *Machaeranthera tanacetifolia*
- Beardtongue - *Penstemon strictus*
- Bindweed, field – *Convolvulus arvensis*
- Black medic – *Medicago lupulina*

Braly 2025

Blanket flower - *Gaillardia aristata*
Blue grama - *Bouteloua gracilis*
Box elder – *Acer negundo*
Buckhorn plantain- *Plantago lanceolata*
Buffalo bur – *Solanum rostrum*
Cottonwood, plains – *Populus deltoides*
Curly dock – *Rumex crispus*
Dalmation toadflax – *Linaria dalmatica*
Dogbane
False indigo bush
Field pennycress – *Thlaspi arvense*
Flax – *Linum lewisii*
Flixweed – *Descurainia sophia*
Goosefoot
Grass, buffalo
Grass, cheat
Grass, crested wheat – *Agropyron cristatum*
Grass, Western wheat – *Pascopyrum smithii*
Gumweed, curly-cup
Hairy Golden Aster – *Heterotheca villosa*
Jim Hill Mustard – *Sisymbrium altissimum*
Milkvetch, Drummond – *Astragalus drummondii*
Moth mullein – *Verbascum blattaria*
Potentilla
Prickly Pear
Prickly poppy – *Argemone* sp.
Rocky Mountain juniper – *Juniperus scopulorum*
Sage, fringed – *Artemisia frigida*
Showy milkweed - *Asclepias speciosa*
Siberian elm – *Ulmus pumila*
Smooth brome – *Bromus inermis*
Sunflower, common – *Helianthus anuus*
Sunflower, little - *Helianthus pumilus*
Sweet clover, white - *Melilotus albus*
Sweet clover, yellow - *Melilotus officinalis*
Tall Mustard
Thistle
Thistle, musk – *Carduus nutans*
Water crowfoot – *Ranunculus aquatilis*
Wooly mullein
Yarrow – *Achillea millefolium*

Mammal

Beaver going to lodge

Here is a link to the inaturalist photos, including a few damselflies (Charlie Saunders)

https://www.inaturalist.org/observations?on=2025-06-13&user_id=charliesaunders&verifiable=any

Ann Cooper has less common sightings posted on iNaturalist. Her tag is wordswild.

Plants – Scientific names from Flora of Colorado, J. Ackerfield 2nd edd. 2022

Common names from <https://coloradoplants.jeffco.us/plantAbout>, Colorado State University Extension.

Recorder – Jan Chu 6/24/2025

REFERENCE:

CHU, J. AND KELLY V. '2024 INVENTORY OF BUTTERFLIES IN THE OPEN SPACES OF BOULDER COUNTY, COLORADO' PAGES 33-34.