A Pocket Guide to Common Kansas Butterflies



By Jim Mason

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Eggs, larva and chrysalis of Black Swallowtail

Cover Photo: Regal Fritillary ©Bob Gress

Introduction

Insects are the most numerous and successful group of organisms on Earth, but most of them lack a "fan base." In fact, many are downright despised by people! However, butterflies are a type of insect that most people find appealing. Their beautiful colors, close association with flowers, intriguing behaviors and their inability to bite us - combine to make them ambassadors, of sorts, for their six-legged kin.

This pocket guide covers 61 of the more common and interesting species of the 190 species of butterflies recorded within Kansas' borders. If you come across a butterfly that does not quite look like what is shown here, it may well be a different species. A list of comprehensive butterfly references is in the back of this guide. Each species account includes the following:

Range: Delineates the part of Kansas where you are likely to see the species. Many elected for this pocket guide have been found statewide, but the strong prairie winds can blow these small creatures into atypical locations. The complete state list includes over 70 erratics, which may show up after weather events like hurricanes that come inland and sweep up normally tropical species and drop them here. Under ordinary conditions though, most butterflies will reside in the habitat where their caterpillar host plant is found, which is always good to keep in mind when trying to make an identification.

Wingspan: Gives the width from tip to tip when the wings are held out flat. It is given as a range rather than a fixed dimension. Adult size is determined by how well the caterpillar eats, along with other factors. Butterflies do most of their eating as caterpillars, which may be 3,000 times their birth weight before pupation! But some individual caterpillars don't get to eat as much as others, thus the variance in wingspan. Size range is still an important clue when identifying butterflies. For instance, if you spot a mostly orange and black butterfly whose wingspan is less than 2.3", it is probably not a Monarch.

Flight Time: Tells when you are likely to see adults of that species. Many butterflies are seen as adults only during a limited time span. Others fly for a longer span during the year or may have multiple generations in a year. Widely-distributed species will often fly earlier or later in the season in the southern or eastern part of Kansas.

Host Plant: Lists some or all of the plants used for food by the caterpillars. An adult butterfly's mouth is a long, thin tubular structure called a proboscis which is used to sip liquid foods, such as flower nectar. A caterpillar, however, has chewing mouthparts and eats vegetation, usually from only a few plant species known as its host plant.



Regal Fritillaries on Butterfly Milkweed

David Welfelt

Butterflies vs. Moths

The easiest way to tell a butterfly from a moth is to look at the antennae. Each butterfly antenna ends in an enlarged structure called a club. Moth antennae may be pointed or feathery-looking but never have a club on the end. There are some day-flying moths and some that are quite colorful, so neither activity period nor colorful appearance is adequate to distinguish moths from butterflies.

Observing Butterflies

Butterfly watching is best done with a pair of close-focusing binoculars. Most binocular makers offer models with close-focusing capability, but when choosing a pair make sure you test them out before buying. If you can look through them and focus on your shoelaces, that is a good standard to go by. With this special tool, you can stay outside a butterfly's discomfort zone and observe it without scaring it away. This will open up a whole world of behavior you would otherwise never witness. The binoculars will also allow you to appreciate many details of the insects and flowers they visit you may have overlooked before.

A butterfly is most vividly colored right after it has come out of its chrysalis. Such individuals are referred to as "fresh." Over the few short days or weeks of its adult life those colors will fade and the wings may become damaged by storms, accidents or narrow escapes from predators. This can make a familiar species appear to be something else.

When butterflies gather to sip from damp spots on the ground for the moisture and/or minerals present, this is called "puddling." Some species will navigate to the highest point in their landscape as a way to meet each other. This is called "hill-topping." Females of some species will lead the males in a barnstorming race across the landscape, perhaps as a way to test their fitness as mates. A butterfly develops through four stages of growth during its life - a process called complete metamorphosis. It starts from an egg, which hatches into a caterpillar. Caterpillars have five growth stages, called instars. Each instar may look different from the others, depending on the species. The third growth stage is the chrysalis, from which emerges the winged adult, a butterfly.

Skippers are the most numerous butterfly family in Kansas, with 63 different species. Many are difficult to distinguish in the field. They are the "little brown birds" of the butterfly watching world! Not only are they small, most of them have very subtle variances in their marks and similar orange/tan/yellow coloration. In addition, some are sexually dimorphic (different male and female forms). Common to all is a small hairlike extension of the antennal club known as the apiculus, which easily identifies the insect as a skipper of some sort, even if you cannot pin down the exact species. This pocket guide only covers 16 of the Kansas skippers. Serious butterfly watchers who want to master identification of the skippers are strongly encouraged to obtain one of the comprehensive butterfly guides listed on page 67.

While watching butterflies, don't pass up opportunities to observe other flower visitors you may encounter. Some may be seeking food from the plants (bees, flies and other pollinating insects) and some may be predators (crab spiders and assassin bugs). The micro-world of insects is a fascinating place to explore!



Gray Copper on Daisy Fleabane





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Pipevine Swallowtail



Pipevine Swallowtail Battus philenor

©Greg Sievert

Range: Southeast 1/4
Wingspan: 2.7 – 4"
Flight Times: Multiple flights, April – October
Host Plants: Pipevines (Aristolochia sp.) Larvae feed gregariously.

Comments: The Pipevine Swallowtail sets the standard for bad taste in large, dark butterflies in Kansas. Their caterpillars sequester chemicals from the pipevine host plant that make them noxious to birds. Other dark swallowtails and the Red-spotted Purple mimic this coloration to give them some protection from predation by birds. The Pipevine Swallowtail, however, has a single peripheral row of large orange spots on the under hindwing, whereas the mimics have either two rows and/or additional spots near the body. The bright orange eggs are laid in groups.



©Greg Sievert

Zebra Swallowtail



Zebra Swallowtail Eurytides marcellus

©Greg Sievert

Range: Southeast 1/4Wingspan: 1.9 - 3" Flight Times: 2-3 flights, March – October Host Plants: Pawpaw (Asimina triloba). **Comments:** The Zebra Swallowtail cannot be confused with any other local species, but there is variance in size and subtle differences between the spring and summer forms. Spring forms have shorter tails and two red spots on each hindwing rather than one. The range of this gorgeous swallowtail is limited by its extreme host plant specificity. Their caterpillars feed solely on the foliage of pawpaw trees, an understory tree found in eastern woodlands. In Kansas, that tree is found only in the southeast. In good light, notice the "white" stripes actually have a bluish tint. Flight is usually only a few feet above the ground. Groups of Zebras can sometimes be found puddling at muddy spots near streams.



©Betsy Betros

Black Swallowtail



©Larry Armstrong

Black Swallowtail Papilio polyxenes

Range: Statewide Wingspan: 2.7 – 4" Flight Times: Multiple flights, May – November Host Plants: Various species in the Carrot Family **Comments:** This species is sexually dimorphic (different male and female forms). The spots in the inner row on the upper forewing of males are much larger than those of females, and females have a large area of blue blush on their upper hindwings. This is the most commonly encountered swallowtail in Kansas, due in no small part to our widespread planting of host plants in gardens and home landscapes. One can still have dill for the herb shelf and carrots for the table, and vet also raise Black Swallowtail caterpillars, by planting a row of fennel and moving any caterpillars that show up on the dill or carrots to the fennel. Photos of the eggs, larva and chrysalis are on the index pages of this Pocket Guide.



©Thane Rogers

Giant Swallowtail



©Betsy Betros

Giant Swallowtail Papilio cresphontes

Range: East 1/2 Wingspan: 3.7 – 5.5" Flight Times: 2 flights, April - October Host Plants: Various species in the Citrus Family **Comments:** The Giant Swallowtail is seen in Kansas either as a southern stray or in association with its local host plant, prickly ash (Zanthoxylum americanum), a thicket-forming shrub found in eastern woodlands. This butterfly is considered an agricultural pest in Florida because it uses citrus trees for host plants. It is easily recognized by its very large size and the wide, yellow stripe that is continuous across both upper forewings. All swallowtail caterpillars have bright red or orange "horns" they can pop out of their foreheads when alarmed. This structure, called an osmeterium, is an intriguing defensive mechanism which, in addition to its startling, sudden appearance, releases a distinctive odor.



Eastern Tiger Swallowtail

Eastern Tiger Swallowtail Papilio glaucus



©Greg Sievert

Range: East 2/3
Wingspan: 2.5 – 4.5"
Flight Times: 2 flights, March – October
Host Plants: Various trees, including ash, cherry and apple

Comments: The Eastern Tiger Swallowtail is fond of flying high in trees, where the female lays her eggs on leaves in the upper branches. It is a spectacular visual treat when one comes down to eve level to sip nectar at flowers. Groups may be seen puddling on damp ground. Some females are not yellow but nearly black; however, in good light the tiger stripes can still be faintly seen. Dark form females are easily distinguished from other species by their large size and absence of white spots on the abdomen. Like all of Kansas' swallowtails, it overwinters in a distinctive chrysalis which is reminiscent of a lineman working on a telephone pole. The chrysalis is attached by the tip of the tail to any solid object with the head end up, and leans at an angle away from that object, suspended by a silk "lineman's belt."



©Mark Neubrand

Checkered White



female

Checkered White Pontia protodice

Range: Statewide

Wingspan: 1.2 - 1.8"

Flight Times: Multiple flights, March – November Host Plants: Various species in the Mustard Family Comments: The Checkered White is a native species and more commonly uses weedy plants for host plants than the introduced Cabbage White. It has more dark markings on it, top and bottom, than the uniformly plain Cabbage White and has prominent streaking on the under hindwings.



©Betsy Betros

Cabbage White



Cabbage White Pieris rapae

©Greg Sievert

Range: Statewide Wingspan: 1.2 – 1.8" Flight Times: Multiple flights, February – November

Host Plants: Various species in the Mustard Family
Comments: The Cabbage White has a plain yellow under hindwing and only a few dark marks on the wings, in contrast to the "checkered" Checkered White. Also notice the dark upper forewing tip. Males have only one upper forewing spot, while females have two. The Cabbage White was introduced from Europe during the 19th century and rapidly spread across the continent. It may become a garden pest locally and is occasionally seen in open plant nurseries during winter.

100

female

Clouded Sulphur

Clouded Sulphur Colias philodice

female ©Greg Sievert

©]im Mason

Range: Statewide

Wingspan: 1.1 - 2.1"

Flight Times: Multiple flights, March – December Host Plants: Various species in the Legume Family Comments: This is Kansas' most common yellow butterfly. Fresh individuals have a thin pinkish fringe on the wings. Clouded Sulphurs do not have any orange on the upperwings, while Orange Sulphurs typically do. Identification can be a challenge, though, because Clouded Sulphurs interbreed with Orange Sulphurs, with confusing results for the butterfly watcher. White form females are not uncommon, and may be separated from other white butterflies by the dark outer wing edges. Summer individuals are larger than those seen in spring or fall.



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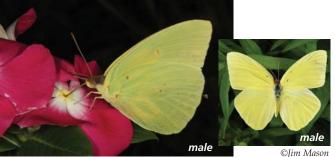
Orange Sulphur



©Greg Sievert

Orange Sulphur Colias eurytheme

Range: Statewide
Wingspan: 1.3 – 2.3"
Flight Times: Multiple flights, March – December
Host Plants: Various species in the Legume Family
Comments: This species is also known as the alfalfa butterfly, because alfalfa is both a nectar plant and a preferred host plant. It is slightly larger than the Sleepy Orange with more diffuse markings on the underwings and its flight is more leisurely. The small dark mark on the upper forewing is rounded into an oblong dot in both the Orange and Clouded sulphurs. The Orange Sulphur interbreeds with the Clouded Sulphur, and hybrids are often seen in summer. White form Orange Sulphur females look much like white form Clouded Sulphurs.



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Cloudless Sulphur



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Cloudless Sulphur Phoebis sennae

Range: Statewide
Wingspan: 1.8 – 2.7"
Flight Times: Multiple flights, July – December
Host Plants: Wild Senna, Partridge Pea and related legumes

Comments: Cloudless Sulphurs re-colonize Kansas each year from resident populations in the southern U. S.. Individuals begin showing up in Kansas in mid-summer. It is noticeably larger than other yellow butterflies seen in Kansas, and the color of the wings appears much lighter and brighter. The male upperwings are usually unmarked and light yellow, while the females have a row of small dark spots on the edge. Females will have several dark marks on their underwings and some are white, nearly greenish below. The flight is rapid and direct, usually at eye level or higher.



Sleepy Orange

Sleepy Orange Abaeis nicippe



©Betsy Betros

Range: Statewide except northwest corner Wingspan: 1.1 - 1.9" Flight Times: 3 flights, May – October Host Plants: Wild Senna and Partridge Pea **Comments:** The Sleepy Orange is slightly smaller than an Orange Sulphur. Note the absence of eve spots on the underwings. The small dark spot in the center of the upper forewing is linear rather than rounded, suggesting a closed or "sleepy" eye instead of an open one. This "sleepy" eye is visible from below only when the wings are held slightly spread; appearing as a short, black dash in the center of the forewing. The fall form of the Sleepy Orange has darker mottling on the under hindwing. An alarmed individual will fly rapidly and erratically toward cover.



Little Yellow

Little Yellow Pyrisitia lisa

Range: East 2/3
Wingspan: 1.1 – 1.7"
Flight Times: Multiple flights, May – November
Host Plants: Wild Senna and Partridge Pea
Comments: The Little Yellow is most easily
recognized by its small size. The bright, unmarked
yellow of the upperside with black outer margins is
distinctive when seen in flight. It generally perches
with its wings closed, as do all sulphurs. The
underside is greenish-yellow with various spots,
like larger sulphurs. It is usually seen flying close to
the ground in open areas.

©Jim Mason



Dainty Sulphur

Dainty Sulphur Nathalis iole



©Betsy Betros

Range: Statewide

Wingspan: 0.7 – 1.3"

Flight Times: Multiple flights, April – November Host Plants: Various species in the Aster Family Comments: Kansas' smallest sulphur, the Dainty is often found flying low to the ground in barren vacant lots where its weedy host plants (especially native marigolds) are common. The wide, midwing black line on the upperside is a good field mark noticeable only in flight since they perch with their wings held closed. They may be observed very late in the season when winter is slow in coming.



Southern Dogface

©Jim Mason

Southern Dogface

Range: Statewide
Wingspan: 1.7 – 2.5"
Flight Times: 2 flights, March – November
Host Plants: Various species in the Legume Family
Comments: The Southern Dogface is an uncommon migrant in Kansas. It is larger than Orange or Clouded sulphurs and is a brighter yellow above with a slightly hooked forewing tip. Males have solid black forewing tips while females have light splotches in theirs. The "dog face" is on the upper forewing and may be seen on perched individuals when the wings are held slightly open.



Gray Copper Lycaena dione

Range: Statewide
Wingspan: 1.2 – 1.7"
Flight Times: 1 flight, May – July
Host Plants: Docks (*Rumex sp.*)
Comments: Look for Gray Coppers in low, wet grassy habitats. Unlike the Bronze Copper, it may also be found in drier habitats such as railroad right of ways. Milkweed is a favorite nectar plant. Females have several dark spots on their upper forewings while males have only a couple. The underside of both wings is light whitish-gray with several small black spots. There is a vivid orange marginal band on the hind wings above and below.

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Bronze Copper

Bronze Copper Lycaena hyllus

Range: Statewide
Wingspan: 1.2 – 1.6"
Flight Times: 2 or more flights, May – October
Host Plants: Docks and knotweeds
Comments: Bronze Coppers stay close to damp habitats such as swales, roadside ditches and margins of ponds and streams. Smartweed is a favored nectar plant. These butterflies are most easily distinguished from Gray Coppers by the orange on the under forewings. Their flight time extends much later in the season than Gray Coppers. Male upperwings are mostly brown washed with purple and have a few small dark spots, while females have a large area of orange in the upper forewings and more numerous spots.

female ©Betsy Betros



Coral Hairstreak

Coral Hairstreak Satyrium titus

Range: East 3/4

Wingspan: 0.9 - 1.4"

Flight Times: 1 flight, June – July

Host Plants: Various trees, including plum and cherry

Comments: Look for Coral Hairstreaks in brushy fields and thickets in early summer. Butterfly milkweed is one of their preferred nectar sources, and finding the two together is a beautiful sight. Dogbane (*Apocynum sp.*) is another favored nectar plant. Upperwings are mostly light brown, and underwings are light gray with several small whiteedged black spots. They have a row of small red/orange spots along the hindwing margin, above and below. This row of spots below may extend across the forewings also in females. Coral Hairstreaks do not have tails (hairstreaks).



©Greg Sievert

Gray Hairstreak



©Greg Sievert

Gray Hairstreak Strymon melinus

Range: Statewide Wingspan: 0.8 - 1.2" Flight Times: Multiple flights, March – November Host Plants: Many different plants in different families **Comments:** The Gray Hairstreak is Kansas' most common hairstreak. It may be found nectaring in a wide variety of habitats. Look for the tails, the plain gray underwings with the narrow, tri-colored band of orange, black and white crossing both wings and the orange eyespot with a black center on the rear edge of the hindwing. Compared to the Gray Copper, the upperwings are plain gray without any spots, and the rear edge of the hindwing has a single orange evespot rather than a band of orange. The upper surface of the abdomen of males is pale orange while female abdomens are all gray. Also note the orange on the forehead and the leading edge of the forewings. It is often seen basking with wings open.



Juniper Hairstreak

Juniper Hairstreak Callophrys gryneus

Range: East 2/3 Wingspan: 0.7 – 1.2" Flight Times: 2 flights, March – August Host Plants: Eastern Red Cedar

Comments: Although small, the Juniper Hairstreak is one of Kansas' most attractive butterflies, and very easily recognized. They are usually found on and around cedar trees, which are the host plant. Shake a tree's branches and you may flush out a few. Watch for them nectaring near cedars, particularly on milkweeds. They typically perch with their wings closed, displaying the olive green camouflage of the underwings, set off by bands of cinnamon brown edged in white. The legs and antennae are zebra striped and the black antennal club has a dot of orange on the end.



©Greg Sievert

Reakirt's Blue



©Greg Sievert

Reakirt's Blue Echinargus isola

Range: Statewide **Wingspan:** 0.6 - 1.0''Flight Times: Multiple flights, April - November Host Plants: Various members of the Legume Family **Comments:** The underwing pattern of the Reakirt's Blue is "busier" and the background color is darker compared to Eastern Tailed-Blues and the Azures. Look for the median row of white-ringed black spots on the underside of the forewings, two dark spots on the rear edge of the upper hindwings and the absence of tails or any orange marks on the back edge of the hindwings. Males show an overall blue color above, while females only have a small amount of blue near the base of their otherwise dark upperwings. The smaller Western Pygmy Blue (not illustrated) does not have the median row of black spots on the under forewing.



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Eastern Tailed-Blue



Eastern Tailed-Blue Cupido comintas

©Betsy Betros

Range: Statewide **Wingspan:** 0.6 - 1.0''Flight Times: 3 flights, April – November Host Plants: Various members of the Legume Family Comments: A common behavior of this species and other hairstreak butterflies is to slowly move the hind wings up and down when perched. This is a distraction display which animates the eyespots on the rear wings and the antenna-like tails so a bird predator will hopefully strike there instead of the head. This is the only Blue in our area with tails. In worn or older individuals with the tails missing, look for the 2-3 orange spots near the rear edge of the hindwings to distinguish it from the Azures. It may often be seen puddling in groups on damp ground. Their caterpillars, like the caterpillars of other blues, are attended to and protected by ants. The caterpillars reward the ants by secreting droplets of honeydew.



Spring Azure & Summer Azure





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Spring Azure & Summer Azure Celastrina ladon & Celastrina neglecta

Range: Statewide Wingspan: 0.7 – 1.4" Flight Times, Spring Azure: 1 flight, March – May Flight Times, Summer Azure: 3 flights, May – October

- **Host Plants:** Dogwood, New Jersey Tea and other woody plants
- **Comments:** Spring Azures appear earlier than other local butterflies, aside from species that overwinter as adults. Azures have unmarked, light-blue upperwings but female upper forewings have wide dark edges. The upperwings are seldom seen when perched. The underwings are white with a variable number of small black spots, but have neither eyespots nor any orange marks on the trailing edges. These two species can only be distinguished in the field by the calendar date, but they may still overlap in May. A fresh individual in May would most likely be a Summer Azure. Azures often puddle in large groups. Their slug-like caterpillars feed on the flowers, buds and fruits of their host plants.



American Snout

American Snout Libytheana carinenta

Range: Statewide Wingspan: 1.2 – 1.9" Flight Times: 2 flights, May – October Host Plants: Hackberry

Comments: The bold black, orange and white colors on the upper wings may bring to mind a Painted Lady, but the long labial palps extending in front of the head readily separate the American Snout from all other local species. Also note the smaller size and distinctive squared-off forewing tips. This species' abundance varies greatly each year, depending on weather conditions in the southern U.S., where the first generation originates.

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Variegated Fritillary

Variegated Fritillary Euptoieta claudia



©Greg Sievert

Range: Statewide
Wingspan: 1.5 – 2.6"
Flight Times: Multiple flights, April – November
Host Plants: Several, including violets, passion vines and pansies

Comments: The Variegated Fritillary is Kansas' most common fritillary. The upperwings resemble those of a Great Spangled Fritillary, but note the wide, pale yellow median band crossing both wings, visible from above and below. The Variegated is also much smaller than a Great Spangled and has no large silver spots on the under hindwings. It is very conspicuous in prairies early in the season, but may be found nectaring almost anywhere by late summer.



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Great Spangled Fritillary Speyeria cybele

Range: Northeast 2/3 Wingspan: 2.6 – 3.5" Flight Times: 1 flight, May – September Host Plants: Violets

Comments: The Great Spangled Fritillary is a Monarch-sized light orange butterfly with large silver spots on the underside of the hind wings. In contrast to the Regal Fritillary, both upperwings are orange and the dark lines on the upper forewings have more of a chain mail look. Males emerge in June, about a week before the females. Males die shortly after mating. Females may fly through the rest of the summer into early fall.



©Mark Neubrand

female

Regal Fritillary

Regal Fritillary Speyeria idalia

Range: Statewide, rare west 1/2 **Wingspan:** 2.9 - 3.8''Flight Times: 1 flight, June – September Host Plants: Prairie violets, such as Viola pedata **Comments:** Regal Fritillaries reside only in pristine tallgrass prairie containing the host plant. However, much of that habitat nationally has been lost to development and agriculture, and their numbers have declined. Fortunately, much of Kansas' tallgrass prairie remains, and good numbers of this species are still present. Males emerge first in June, with females emerging later. Both may often be found around the Fourth of July. Males die soon after mating, but females may live until early fall. The dark upper forewing tip of the female is the easiest way to separate the sexes in the field.



Gorgone Checkerspot

Gorgone Checkerspot Chlosyne gorgone



©Larry Armstrong

Range: Statewide
Wingspan: 1.0 – 1.7"
Flight Times: Multiple flights, April – October
Host Plants: Various species in the Aster Family. Larvae feed gregariously.
Comments: The Gorgone Checkerspot is common across Kansas. The best way to recognize it is by the median transverse band of black-bordered white cells on the under hindwing. These cells have very jagged outlines, giving this band a "shattered glass" look. On the upper side, small pale chevrons in the dark band on the rear edge of the hindwings

will distinguish it from the Silvery Checkerspot.



Silvery Checkerspot

STATUS.

©Greg Sievert

Silvery Checkerspot Chlosyne nycteis

Range: East 1/2
Wingspan: 1.3 – 1.6"
Flight Times: Multiple flights, May – August
Host Plants: Various species in the Aster Family. Larvae feed gregariously.

Comments: In the eastern half of the state, the Silvery Checkerspot can be confused with the Gorgone, but the cells in the transverse, white median band on the under hindwing have even, rounded borders, unlike the jagged borders of the Gorgone. To distinguish this from the Pearl Crescent, look at the submarginal row of dark dots on the upper hindwings, of which at least a few will have white centers on a Silvery Checkerspot. The base of the upper hindwing is nearly all dark on both this and the Gorgone Checkerspot, unlike the reticulated pattern on a Pearl Crescent.





Phaon Crescent

Phaon Crescent Phyciodes phaon

©Betsy Betros

Range: Southeast 1/2 Wingspan: 0.8 – 1.3" Flight Times: 2 flights: June – July, September – October

Host Plants: Fog fruit (Phyla sp.)

Comments: The Phaon Crescent's upper forewings have a transverse, crooked, cream-colored median band. The under forewings, when visible, have a bold calico pattern which distinguishes it from the Pearl Crescent. The Phaon Crescent is local in distribution and found in close association with the host plant, which grows along wetland edges.



Pearl Crescent Phyciodes tharos



©Betsy Betros

Range: Statewide

Wingspan: 1.0 – 1.6" Flight Times: Multiple flights, April – November

Host Plants: Waitup Engits, April – Rovenber Host Plants: Various species in the Aster Family. Comments: The Pearl Crescent is one of the most common butterflies in the state, due primarily to its generalist strategy on choosing host plants. The under hindwings of males are plainly marked compared to females. Look midway along the outer margin of the under hindwing for the blackbordered white crescent that gives the species its name. On the upper hindwing, note the area at the base of the wing is not predominantly dark like on the checkerspots and none of the small dark spots in the submarginal row have white centers.

©Greg Sievert

Range: Statewide **Wingspan:** 1.9 - 2.5" Flight Times: Potentially year-round

Ouestion Mark Polygonia interrogationis

Question Mark

Host Plants: Elm and hackberry **Comments:** Question Marks overwinter as adults.

verwintering form

Like the Eastern Comma, overwintering Ouestion Marks have upper hindwings that are mostly orange. The summer generation has mostly dark upper hindwings. Look for the silvery "squiggle + a dot" in the center of the under hindwing. It is larger than the Comma, with longer tails and a smoother outline to the forewings. It is one of the few species in Kansas that may be seen flying on warm winter days. It rarely visits flowers but is attracted to carrion, scat, over-ripe fruit and puddles on damp earth.





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Eastern Comma

Eastern Comma Polygonia comma



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Range: Northeast 1/2 **Wingspan:** 1.6 - 2.3''Flight Times: Potentially year-round Host Plants: Nettles and hops **Comments:** The scalloped wing edge of the Eastern Comma easily separates it from the Emperors, and

the smaller tails separate it from the Ouestion Mark. Commas overwinter as adults. That generation has mostly orange upper hindwings, while those of the summer generation are mostly dark. The underside of the hind wing has only a silvery squiggle, without the additional dot of the Question Mark. Its range in Kansas is much less than that of the Question Mark.



©Thane Rogers

Mourning Cloak Nymphalis antiopa

Range: Statewide
Wingspan: 1.6 – 2.3"
Flight Times: 2 flights: spring and fall
Host Plants: Various trees, including willow, cottonwood, elm and hackberry. Larvae feed gregariously.

Comments: Although overwintering adults may be seen flying on warm winter days, those individuals usually have faded and tattered wings. The subtle beauty of a Mourning Cloak's markings is best appreciated in a freshly-emerged individual of the summer generation. Watch for the new hatch in early June. These will fly briefly and then aestivate (enter summer hibernation). They will then feed again in fall before hibernating. These individuals may live 10 months as an adult, making it Kansas' longest-lived butterfly species.



American Lady

American Lady Vanessa virginensis



©David Welfelt

Range: Statewide
Wingspan: 1.6 – 2.3"
Flight Times: Adults immigrate from the southwest, then 2 local flights, March – November
Host Plants: Pussytoes and Pearly Everlasting
Comments: The upper hindwing eyespots of the American Lady are not clearly separated from each other like those of the Painted Lady, and the under hindwing has only two large eyespots instead of 4-5 small ones.



©Bob Gress

Painted Lady

Painted Lady Vanessa cardui



©Larry Armstrong

Range: Statewide Wingspan: 1.7 - 2.6" Flight Times: Adults immigrate from the southwest, then 2 local flights, March - November Host Plants: Many different plants in different families **Comments:** The Painted Lady is found nearly worldwide, making it the most widely distributed of all butterfly species. For that reason, it is also known as the Cosmopolitan. Its wide usage of different host plants helps make that possible. Note the row of small eyespots on the under hindwing, in contrast to only two on the American Lady. The Painted Lady, like the Hackberry Emperor, has a large black area on the upper forewing tip with white spots, but the remainder of the wings, both above and below, has an orange background color rather than light gravish brown. Spring migrants, usually seen as single individuals, are often observed flying purposefully in a northeasterly direction. A notable flight in 1983 was so heavy that individuals hitting windshields posed a hazard to motorists.



Red Admiral

Red Admiral Vanessa atalanta

©Larry Londagin

Range: Statewide

Wingspan: 1.6 - 2.3"

Flight Times: 2 local flights plus immigrants from the south, March – November

Host Plants: Nettles

Comments: The Red Admiral is one of the few species that overwinters as an adult in Kansas. For that reason, it may often be observed in early spring. Watch for it on blooming lilacs. Note the bold red stripe across both upperwings, unlike any other local species. The underwings have a very cryptic coloration that blends remarkably well with tree bark. However, the wings are occasionally held less tightly together and then the red, white and blue markings on the under forewings become visible. Red Admirals are fond of tree sap and also salt, which they obtain from the sweat on our bodies or while puddling.



Common Buckeye

©Betsy Betros

Common Buckeye Junonia coenia



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©Greg Sievert
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Range: Statewide
 Wingspan: 1.5 – 2.4"
 Flight Times: Adults immigrate from the south, then 2 local flights, April – November
 Host Plants: Figworts and plantains
 Comments: With its wings spread basking in the sun, the Common Buckeye is easily recognized by the large, colorful eye spots on both upperwings. The underside of the wings is cryptically colored, with the fall version being more reddish-brown. Males will sometimes dart out to investigate people who wander into their territory.



Red-spotted Purple

Red-spotted Purple Limenitis arthemis astyanax

©Linda Williams



©Greg Sievert

Range: East 1/2
Wingspan: 2.3 – 3.5"
Flight Times: 2 flights, May – September
Host Plants: Various woody plants, including cherry, apple, cottonwood and serviceberry
Comments: The upper wings of the Red-spotted Purple mimic those of the Pipevine Swallowtail, but there are no tails. Note the large red spots near the base of the underwings. This species overwinters in the larval stage. Fifth instar caterpillars have long, spiky "horns" on their heads.



Viceroy Limenitis archippus



©Greg Sievert

Range: Statewide **Wingspan:** 2.3 - 3.1''Flight Times: 2 flights, May – September Host Plants: Willows and poplars **Comments:** The dark line crossing the hind wing veins is the easiest way to separate the Viceroy from the Monarch. In a few individuals, however, this line is missing. Note there is only a single row of white spots in the black band on the trailing edges of the wings, while Monarchs have two rows. Viceroys overwinter in the larval stage, inside a small leaf that has been rolled up, sewn shut with silk and attached to the twig so it won't fall off. Watch for these butterflies perched on the foliage of the host plants.



Goatweed Leafwing

©Carolyn Schwab

Goatweed Leafwing Anaea andria

Range: Statewide

Wingspan: 1.8 - 2.5''

Flight Times: 2 flights: one emerges in late spring and the other emerges in fall and overwinters

Host Plants: Croton

Comments: Goatweed Leafwings overwinter as adults and may sometimes be seen flying on warm winter days. The lack of black upperwing markings helps separate them from the anglewings, as does the relatively smooth wing margin and lack of any "punctuation marks" on the under hindwings. Males will often fly up and investigate any moving object (including people) in their territory. Males have solid dark orange upperwings, while those of females are lighter and have a wide, pale submarginal band. They typically perch with wings closed and are wellcamouflaged when they do, since they strongly resemble a dead leaf. Adults rarely visit flowers, instead feeding from sap flows, rotting fruit and scat.



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Hackberry Emperor

Hackberry Emperor Asterocampa celtis



©Greg Sievert

Range: Statewide Wingspan: 1.5 – 2.2" Flight Times: 2 flights, May – October Host Plants: Hackberry

Comments: Hackberry Emperors appear some years in very large numbers, and in those years the larvae may defoliate host trees. They are fond of salt and often land on shoulders and arms to sip sweat with their proboscis. The upper wings have a large dark area near the forewing tip but are somewhat variably colored otherwise, from light orange to grey. Of the two short, dark bars on the upper forewing, the one closest to the body is often broken or nearly broken. There is a row of small eyespots on the under hindwings near the outer edge.



Tawny Emperor

Tawny Emperor Asterocampa clyton

Range: East 2/3 Wingspan: 1.4 – 2.4" Flight Times: 2 flights, June – October Host Plants: Hackberry

Comments: Tawny Emperors may be found in woodland edge habitat. Compared to their close cousin, the Hackberry Emperor, the upper wings have an overall wash of light orange to brown color without any white marks or a large black area at the tip. Note the two unbroken dark bars on the upper forewing. Below, the eyespots and other markings are less distinct than those of a Hackberry Emperor. Like the Hackberry Emperor, it rarely visits flowers, instead feeding on sap flows, rotting fruit and scat.

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Little Wood Satyr Megisto cymela

Range: East 2/3
Wingspan: 1.3 – 1.7"
Flight Times: 1 flight, May – August
Host Plants: Various grasses
Comments: The Little Wood Satyr is found in woodland edges and glades. It is the Kansas butterfly most likely to be mistaken for a moth due to its size and appearance. It is much smaller than Common Wood Nymphs and flies earlier in the year, but there is a period of overlap in midsummer. It has two conspicuous eyespots on the outer forewings, visible from above and below. On the underwings, notice the two narrow, transverse dark brown lines that cross both wings.

Common Wood Nymph

©Greg Siever



Common Wood Nymph Cercyonis pegala

©David Welfelt

Range: Statewide Wingspan: 1.7 – 2.7" Flight Times: 1 flight, June – October Host Plants: Various grasses Comments: Common Wood Nymphs are found in

When the common wood Nymphs are found in woodland edge habitat and nearby grassy areas. When stirred into flight they usually fly a short distance to a new perch with a leisurely, bouncing flight pattern. The species is much larger than other satyr butterflies in this area, which have somewhat similar wing markings. The two large eyespots on the under forewings, which often touch one another, are usually surrounded by a large yellow area. The upperwings are mostly a plain brown, and the underwings have a complex pattern of small, dark brown lines on a light brown background.



Monarch



©Larry Armstrong

Monarch Danaus plexippus

Range: Statewide Wingspan: 2.3 – 3.1" Flight Times: 3 flights, April – October Host Plants: Milkweeds Comments: Look for Monarchs in prairie habitats,

mments: Look for Monarchs in prairie habitats, mainly in the eastern half of the state. They also visit home flower gardens. Caterpillars feed solely on milkweeds from which they obtain a potent toxin which protects them from predation by birds. The bold yellow, black and white stripes of the caterpillar advertise this quality to birds, as does the bold orange and black coloration of the adult. The jade green chrysalis with a scattering of gold dots is gorgeous to behold. Their bird-like annual migration to one small area of central Mexico is unique in the world, and all the more remarkable because the insects have no elders to show them the way. First spring arrivals are usually in the second week of April. The main wave of fall migrants typically passes through Kansas in mid-September.



Silver-spotted Skipper

©Linda Williams

Silver-spotted Skipper Epargyreus clarus



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 Range: Statewide
 Wingspan: 1.6 – 2.5"
 Flight Times: 3 flights, April – October
 Host Plants: Various legumes, such as Black Locust, False Indigo and Wild Senna
 Comments: This is the most common large skipper in the state. The large blaze of silver near the middle of the underwings is distinctive, also note the blaze of yellow/orange in the forewings. The flight is rapid, jerky and erratic, but individuals are easily observed while nectaring at flowers. Favored nectar plants include milkweeds, alfalfa and buttonbush. It often perches upside down. Males await females on exposed perches from which they fly out to

investigate any large insect flying by.





Southern Cloudywing

©Betsy Betros

Southern Cloudywing Thorybes bathyllus

Range: East 1/2
Wingspan: 1.3 – 1.6"
Flight Times: 3 flights, April – October
Host Plants: Various legumes
Comments: Cloudywings and duskywings can be difficult to separate in the field, but note the differences in wing shape and the even coloration of cloudywings compared to the more mottled coloration of duskywings. The upperwings of the Southern Cloudywing are darker toward the base and lighter on the margin. The white spots in the forewing median area are in a row and usually hourglass-shaped. The face is typically white and there is a small white spot at the bend of the antennal club.



Hayhurst's Scallopwing

Hayhurst's Scallopwing Staphylus hayhurstii

Range: East 2/3
Wingspan: 0.9 – 1.2"
Flight Times: 2 flights, May – October
Host Plants: Various weeds, such as Lambsquarter and Amaranth
Comments: In contrast to other small, dark skippers, look for the wayy scalloped margin of the

look for the wavy, scalloped margin of the hindwings, hence its name. It perches with the wings held open; flat against the surface it rests on. In good light, notice the abundance of lightercolored scales on the upper wings, which make it look as if they were dusted with flour, and give it an almost grizzled appearance. The caterpillars feed at night.



Funereal Duskywing

Funereal Duskywing Erynnis funeralis

Range: Southwest 1/2
Wingspan: 1.4 – 1.8"
Flight Times: 3 flights, May – August
Host Plants: Various legumes
Comments: This is the only duskywing in Kansas with a conspicuous white fringe on the hindwings. The fringe is visible from above and below. Also note the pale brown patch along the leading edge of the upper forewing, and the relatively narrow forewing compared to other duskywings.

©Carolyn Schwab



Wild Indigo Duskywing

©Greg Sievert

Wild Indigo Duskywing Erynnis baptisiae

Range: East 1/2

Wingspan: 1.1 - 1.5"

Flight Times: 2 flights, April – October Host Plants: Wild Indigos (Baptisia) and Crown Vetch **Comments:** The Wild Indigo Duskywing has always been associated with native prairie containing its primary host plant. However, it has also shown a willingness to utilize Crown Vetch as a host plant, so its numbers are increasing since that plant has been extensively used by highway departments for erosion cover on road cuts. The best field marks for this species are on the upper forewings. They are darker at the base than the tip, there is a scattering of light grey scales in the wing tip area and a small brown patch between the wing tip and base. All duskywings are very challenging to identify in the field, and this species is no exception. Seeing one of them on its host plant may be its best field mark.



Common Checkered-Skipper

Range: Statewide
Wingspan: 1.0 – 1.3"
Flight Times: 3 flights, March – November
Host Plants: Various mallows
Comments: This species is easy to recognize, with its vivid black and white wing pattern. It may be found most of the year in low, weedy habitats and is often seen basking in mowed areas along hiking trails or nectaring at dandelions, asters and other common weeds. Fresh individuals have a vivid blue-green sheen on their long, upper body hairs which is visible in good light. The under hindwings have a distinctive pattern of irregular tan and white stripes.





Common Sootywing

©Carolyn Schwab

Common Sootywing Pholisora catullus

Range: Statewide **Wingspan:** 1.0 - 1.2" Flight Times: 3 flights, April - September Host Plants: Various weedy plants, including Lambsquarter, Amaranth and ragweeds **Comments:** At first glance, the Common Sootywing might be mistaken for one of the other small, dark skippers, but look for the white face, white spots on top of the head and the small white spots near the forewing tip of otherwise very dark wings. It is also smaller than our duskywings and cloudywings. Close up, notice the vividly zebra-striped antennae. It is often seen in vacant lots and other disturbed habitats, or puddling in groups at muddy sites. Caterpillars sew leaves of the host plant together for resting spots.



Least Skipper

©Greg Sievert

Least Skipper Ancyloxypha numitor

Range: East 3/4 **Wingspan:** 0.8 - 1.1"Flight Times: 3 flights, May – October Host Plants: Various grasses

Comments: This very small butterfly is more often seen around damp grassy swales. It has rounded outer margins on the forewings compared to the more pointed wingtips of other orange skippers. Its under hindwings are plain orange, but the under forewings have a dark central area and distinct black veins toward the edge. Above, the wings have wide, dark terminal bands with long orange fringes. It flies slowly, just over, or even under, the semiaquatic grasses of its restricted habitat near lakes, streams, marshes or roadside ditches. It is easily overlooked, but easy to observe once found.



©Mark Neubrand

Fiery Skipper Hylephyla phyleus

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Range: East 1/2
Wingspan: 1.0 – 1.4"
Flight Times: 2 flights, May – October
Host Plants: Weedy grasses, such as Bermuda and crabgrass
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Comments: The Fiery Skipper's host plants are more common in urban areas or disturbed ground than in native prairie so they are not uncommon in towns. It nectars at most flowers, but especially milkweeds, thistles, alfalfa and ornamentals in gardens. Note the unusually short antennae. The undersides of the wings are plain orange, but have several dark spots on them. Females have more spots on their wings than males. Above, males have a narrow dark stigma in the forewing (unlike that of the Sachem) and the narrow black terminal band is jagged on the inner side, as if the orange in the middle of the wing were flames, hence the species name. Female upperwings have several large orange and black marks and a wider terminal band.



Ottoe Skipper

©Betsy Betros

Ottoe Skipper Hesperia ottoe

Range: Statewide, except southeast corner
Wingspan: 1.3 – 1.6"
Flight Times: 1 flight, June – July
Host Plants: Bluestem grasses
Comments: The Ottoe Skipper is found only in native prairie in early to mid-summer. The underside of the wings is an unmarked light orange. Males have a black stigma on the upper forewing similar to a male Sachem, but much narrower. From above, females resemble female Sachems, and also have a small transparent window in the middle of the forewing, but note the plain orange underwings.



Sachem

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Sachem Atalopedes campestris

Range: Statewide

Wingspan: 1.1 - 1.6"

Flight Times: Multiple flights, April – November Host Plants: Various grasses

Comments: The Sachem is a larger skipper that flies in a variety of habitats all season, often becoming rather common by fall. It is sexually dimorphic (different male and female forms). The large black blotch on the basal area of the male's upper forewing (known as a **stigma**) is distinctive. Females have a couple square-ish transparent windows in the middle of the forewing. Below, the wings are somewhat variably marked, but look for a square dark patch in the middle of the edge of the hindwing next to the abdomen.



Arogos Skipper

Arogos Skipper Atrytone arogos

Range: Statewide, except southwest 1/4
Wingspan: 0.9 – 1.2"
Flight Times: 2 flights, May – June & July – September
Host Plants: Bluestem grasses
Comments: The Arogos Skipper is found in native prairie. It has unmarked orange underwings like the Delaware Skipper, but is smaller and the wings are edged with a lighter-colored fringe. The upper forewings lack the distinct black veins and the narrow V marks of the Delaware. Females typically have a narrow dark streak through the middle of the forewing.



Delaware Skipper Anatrytone logan

Range: Statewide Wingspan: 1.1 – 1.4" Flight Times: 2 flights, May – September Host Plants: Various native grasses, including Big Bluestem and Switchgrass

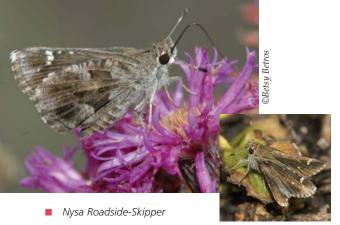
Comments: The underwings of the Delaware Skipper are unmarked orange all the way out to the fringe on the edges. Above, the orange forewings have distinct black veins and wide, dark terminal bands. Both sexes have a dark, narrow V mark in the middle of the upper forewing, but females also have a dark blotch near the base of the wing. Look for it around swales and other damp grassy habitats, as well as drier locations such as roadsides and overgrown fields. It frequents flowers, especially thistles and milkweeds, and is easy to observe while nectaring.



Zabulon Skipper Poanes zabulon

Range: East 1/2 Wingspan: 1.1 – 1.4" Flight Times: 2 flights, April – September Host Plants: Various grasses Comments: The Zabulon Skipper is a strongly dimorphic species (different male and female

dimorphic species (different male and female forms). Males have large, central yellow patches on the upper hindwings not divided by black veins as in the male Hobomok (not illustrated). Below, the hindwing has a large, irregularly-shaped, central yellow patch and a smaller yellow patch near the base. Females are mostly brown to nearly black with some dim orange blotches and a few large white spots on the outer half of the wings. It occurs most often in shaded woodlands or along streams where it rests on vegetation in sunlit openings. Males appear to establish territories. It commonly visits flowers for nectar in both native prairie and suburban plantings.



Nysa Roadside-Skipper Amblyscirtes nysa

Range: East 2/3 **Wingspan:** 0.7 - 1.0''Flight Times: 2 flights, May – June & August – September Host Plants: Various grasses **Comments:** The Nysa Roadside-Skipper is best recognized by the vivid brown and black mottling on the underwings. It is dark above like the Common Roadside-Skipper but with a small white spot on the forewing which is separate from the larger spot on the leading edge. Look for patrolling males perched on trails and bare patches of ground in the early morning. In early spring it often occurs on lawns with low flowers such as white clover. Roadside skippers typically bask with the rear wings held horizontal and the upper wings partially spread.





Common Roadside-Skipper

©Betsy Betros

Common Roadside-Skipper Amblyscirtes vialis

Range: Statewide
Wingspan: 0.9 – 1.2"
Flight Times: 1 flight, April – September
Host Plants: Various grasses
Comments: This small skipper is found in edge habitat, forest trails and along streams and roadsides. It also visits flowers for nectar, both in native prairie and suburban gardens. It has plain dark wings above and below, with a small, distinct white patch on the leading edge of the forewing near the tip. This white patch is visible from above and below and is typically wider at the wing edge. Fresh specimens will have a tan and black checkered fringe on the trailing edge of the wings.

List of Suggested Books:

Betros, B., A Photographic Field Guide to the Butterflies in the Kansas City Region, Kansas City Star Books, Kansas City MO, 2008

Brock, J. & Kaufman, K., Kaufman Field Guide to Butterflies of North America, Houghton Mifflin, New York NY, 2003

Dole, J., Gerard, W. & Nelson, J., Butterflies of Oklahoma, Kansas and North Texas, University of Oklahoma Press, Norman OK, 2004

Heitzman, J.R. & Heitzman, J.E., *Butterflies and Moths of Missouri*, Missouri Department of Conservation, Jefferson City MO, 1996

Schwilling, M. & Ely, C., Checklist of Kansas Butterflies, Emporia State University, Emporia KS, 1991

Scott, J., *The Butterflies of North America*, Stanford University Press, Stanford CA, 1986

Spencer, L., Arkansas Butterflies and Moths, Ozark Society Foundation, Little Rock AR, 2006

List of Internet Resources:

Butterflies and Moths of North America (BAMONA) http://www.butterfliesandmoths.org/ Butterflies of America (includes North & Central America) http://butterfliesofamerica.com/ North American Butterfly Association (NABA) http://www.naba.org/ Kansas Lepidoptera list-serve http://listserv.ksu.edu/archives/ksleps-l.html Butterflies of Oklahoma http://www.birdsofoklahoma.net/Butterflies.htm BugGuide (for photos of all species of North American insects and arachnids) http://bugguide.net/ This and all other GPNC pocket guides may be viewed online at the nature center's website http://www.gpnc.org

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Jim Mason is a Naturalist at the Great Plains Nature Center.