

Observer name: _____ Date: _____ Start time: _____ End time: _____

Temp (F): _____ Description of conditions: _____

Observer experience level: _____ (1 – Beginner; know a few common species. 2 – Proficient; know many common species. 3 – Expert; know many common and rare species.)

Papilionidae

Swallowtails (Papilioninae)

_____ Eastern Tiger Swallowtail (*Papilio glaucus*)
_____ Spicebush Swallowtail (*Papilio troilus*)
_____ Pipevine Swallowtail (*Battus philenor*)
_____ Black Swallowtail (*Papilio polyxenes*)
_____ Zebra Swallowtail (*Eurytides marcellus*)

Pieridae

Sulphurs (Coliadinae)

_____ Cloudless Sulphur (*Phoebis sennae*)
_____ Clouded Sulphur (*Colias philodice*)
_____ Orange Sulphur (*Colias eurythme*)
_____ Sleepy Orange (*Abaeis nicippe*)
_____ Little Yellow (*Pyrisita lisa*)
_____ Unknown Sulphur

Whites (Pierinae)

_____ Cabbage White (*Pieris rapae*)
_____ Falcate Orangetip (*Anthocaris midea*)
_____ Checkered White (*Pontia protodice*)

Lycaenidae

Harvesters and Woolly Legs (Miletinae)

_____ Harvester (*Feniseca tarquinius*)

Blues (Polyommatainae)

_____ Eastern Tailed-Blue (*Cupido comyntas*)
_____ Summer Azure (*Celastrina neglecta*)
_____ Spring Azure (*Celastrina ladon*)
_____ Unknown Blue

Hairstreaks (Theclinae)

_____ Grey Hairstreak (*Strymon melinus*)
_____ Red-banded Hairstreak (*Calycopis cecrops*)
_____ Juniper Hairstreak (*Mitoura gryneus*)
_____ Henry's Elf (*Callophrys henrici*)
_____ Banded Hairstreak (*Satyrrium calanus*)
_____ Great Purple Hairstreak (*Atlides halesus*)
_____ White-M Hairstreak (*Parrhasius m-album*)

Nymphalidae

Emperors (Apaturinae)

_____ Hackberry Emperor (*Asterocampa celtis*)
_____ Tawny Emperor (*Asterocampa clyton*)

Milkweed Butterflies (Danainae)

_____ Monarch (*Danaus plexippus*)

Heliconians and Fritillaries (Heliconiinae)

_____ Great-spangled Fritillary (*Speyeria cybele*)
_____ Variegated Fritillary (*Euptoietia claudia*)
_____ Gulf Fritillary (*Agraulis vanillae*)

Snout Butterflies (Libytheinae)

_____ American Snout (*Libytheana carinenta*)

Admirals (Limenitidinae)

_____ Red-spotted Purple (*Limenitis artemis astyanax*)
_____ Viceroy (*Limenitis archippus*)

True Brush-foots (Nymphalinae)

_____ Pearl Crescent (*Phyciodes tharos*)
_____ Common Buckeye (*Junonia coenia*)
_____ Red Admiral (*Vanessa atalanta*)
_____ Question Mark (*Polygonia interrogationis*)
_____ Eastern Comma (*Polygonia comma*)
_____ Silvery Checkerspot (*Chlosyne nycteis*)
_____ Mourning Cloak (*Nymphalis antiopa*)
_____ American Lady (*Vanessa virginiensis*)
_____ Painted Lady (*Vanessa cardui*)

Satyrs (Satyrinae)

_____ Carolina Satyr (*Hermeuptychia sosybius*)
_____ Gemmed Satyr (*Cyllopsis gemma*)
_____ Little Wood-Satyr (*Megisto cymela*)
_____ Common wood-nymph (*Cercyonis pegala*)
_____ Northern Pearly-eye (*Lethe anthedon*)
_____ Appalachian Brown (*Lethe appalachia*)
_____ Unknown Satyr

Hesperiidae

Grass Skippers (Hesperiinae)

_____ Sachem (*Atalopedes campestris*)
_____ Clouded Skipper (*Lerema accius*)
_____ Zabulon Skipper (*Poanes zabulon*)
_____ Crossline Skipper (*Polites origenes*)
_____ Little Glassywing (*Pompeius verna*)
_____ Dun Skipper (*Euphyes vestris*)
_____ Least Skipper (*Ancyloxypha numitor*)
_____ Southern Broken-Dash (*Wallengrenia otho*)
_____ Fiery Skipper (*Hylephila phyleus*)
_____ Northern Broken-Dash (*Wallengrenia egeremet*)
_____ Ocola Skipper (*Panoquina ocola*)
_____ Swarthy Skipper (*Nastra lherminier*)
_____ Common Roadside-Skipper (*Amblyscirtes vialis*)
_____ Delaware Skipper (*Anatrytone logan*)
_____ Dusted Skipper (*Atrytonopsis hianna*)
_____ Tawny-edged Skipper (*Polites themistocles*)
_____ Dion Skipper (*Euphyes dion*)
_____ Unknown Grass Skipper

Spread-wing Skippers (Pyrginae)

_____ Silver-spotted Skipper (*Epargyreus clarus*)
_____ Juvenal's Duskywing (*Erynnis juvenalis*)
_____ Horace's Duskywing (*Erynnis horatius*)
_____ Hoary Edge (*Achalarus lyciades*)
_____ Northern Cloudywing (*Thorybes pylades*)
_____ Southern Cloudywing (*Thorybes bathyllus*)
_____ Common Checkered-Skipper (*Pyrgus communis*)
_____ Sleepy Duskywing (*Erynnis brizo*)
_____ Long-tailed Skipper (*Urbanus proteus*)
_____ Wild Indigo Duskywing (*Erynnis baptisiae*)
_____ Zarucco Duskywing (*Erynnis zarucco*)
_____ Unknown Spread-wing Skipper

UNKNOWN MISC.

Write-ins:

How to Participate

1. Using the checklist on the other side of this sheet, record the date, time of day, temperature, current conditions (windy, dry, etc.) and your level of experience identifying butterflies.
2. Walk the loop at Mason Farm. You can go either direction.
3. Record the number of each species you see on your walk on the checklist.
4. When you finish, record your end time on this sheet.
5. Leave this sheet in the brochure box where you found it, OR take this sheet home and go to ncbutterflies.web.unc.edu/form to record your observations digitally. (If you leave the checklist, we will do this step.)

About this project

The Mason Farm Butterfly Project is a citizen science project to monitor butterflies at Mason Farm Biological Reserve, a nature preserve managed by the NC Botanical Garden in Chapel Hill. The project is a partnership between Joel Kingsolver's lab in the UNC Chapel Hill Biology Department and the NC Botanical Garden. We invite participants to record butterfly observations at Mason Farm and contribute their sightings to our database, which will be used by members of the Kingsolver lab to study changes in butterfly flight seasons over time.

Why butterflies?

Butterflies are useful indicators of environmental change. By examining changes in butterfly diversity and abundance, researchers have used butterflies to study the effects of climate change, habitat loss, and other global changes to our environment.

Thank you for participating!



For more information, visit ncbutterflies.web.unc.edu.