

Butterfly, Skipper and Dragonfly Survey of Various Natural Areas in the Southern Till Plain Natural Division

Clay, Jasper, Lawrence, & Marion Counties, Illinois

A project for the Illinois Department of Natural Resources
Illinois Wildlife Preservation Fund
Project #09-L12W



Appalachian Brown *Satyroides appalachia*



Mocha Emerald *Somatochlora linearis*

A report of research by
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Survey Methods and Materials

Between August 28, 2008 and October 5, 2009, I surveyed sites in the Southern Till Plain Natural Division for butterflies, skippers, and odonata. I photographed most species for this survey. I collected odonates, butterflies, and skippers with an aerial insect net for county records, and those species are listed on pages 5-7. Surveys were conducted by random walks in the natural areas specified in the contract. These surveys were conducted between the hours of 07:00h to 20:30h. After collection, I removed the odonates from glassine envelopes, euthanized them in acetone, and placed them in an acetone bath for 12-24 hours. These were air-dried and promptly sent to Dr. Tim Cashatt at the Illinois State Museum (ISM) in Springfield, Illinois to be deposited in the ISM collections. All butterflies and skippers that were collected were pinned on spreading boards, properly dried, and sent to the Illinois State Museum, to be deposited in the ISM collections. Only species that were county records at ISM or significant finds were vouchered.

A total of 48 species of butterflies and skippers and 39 species of dragonflies and damselflies were recorded during this time period. A complete checklist is found on page 8. A very wet spring in 2009 prevented any surveying of the rivers within the project area until August. By this time many of the Gomphidae (clubtails) had quit flying. The rainy, cool weather affected the numbers of species seen on the observations. Some species were only seen once or twice. A total of 132 species were deposited at the Illinois State Museum. No Illinois Species of Conservation were found during the survey.



Fiery Skipper *Hylephila phyleus*

Survey Site Locations

| Location | County | GPS Coordinates |
|-------------------------------------|----------|-------------------------------|
| Chauncey Marsh | Lawrence | N38° 50' 10.9" W87° 46' 59.0" |
| Chauncey Prairie | Lawrence | N38° 50' 42.6" W87° 47' 27.2" |
| Embarras River at Lawrenceville | Lawrence | N38° 43' 58.2" W87° 40' 51.0" |
| Embarras River at Ste Marie | Jasper | N38° 56' 13.3" W88° 01' 21.5" |
| Flag Pond South | Clay | N38° 42' 54.3" W88° 18' 51.3" |
| Flag Pond North | Clay | N38° 43' 01.9" W88° 18' 52.5" |
| Little Wabash River Gauge Clay City | Clay | N38° 38' 04.6" W88° 17' 48.0" |
| Little Wabash River Louisville | Clay | N38° 44' 52.4" W88° 28' 23.6" |
| Little Muddy Creek | Clay | N38° 42' 15.7" W88° 19' 03.4" |
| Martin T. Snyder Nature Preserve | Clay | N38° 38' 18.6" W88° 31' 35.6" |
| Miller Shrub Swamp Nature Preserve | Marion | N38° 29' 16.6" W88° 42' 53.7" |
| Red Hills SP Flower Strip | Lawrence | N38° 43' 29.8" W87° 49' 51.4" |
| Red Hills SP Lake | Lawrence | N38° 43' 00.8" W87° 49' 46.8" |
| Red Hills SP North | Lawrence | N38° 43' 57.9" W87° 50' 12.1" |
| Red Hills SP Prairie | Lawrence | N38° 43' 15.2" W87° 50' 24.0" |
| Siddens Property | Lawrence | N38° 41' 49.8" W87° 40' 28.9" |
| White Farm | Lawrence | N38° 41' 05.9" W87° 38' 29.0" |
| Xenia RR Prairie | Clay | N38° 37' 33.3" W88° 41' 42.0" |



Halloween Pennant *Celithemis eponina*

Southern Till Plain Survey Vouchered Specimens

| Scientific Name | Common Name | County | Date | Location | County Record Vouchered at ISM |
|------------------------------------|---------------------------|----------|------------|----------------------|--------------------------------|
| <i>Nymphalis antiopa</i> | Mourning Cloak | Lawrence | 06/17/2009 | Chauncey Marsh | * |
| <i>Phoebis sennae</i> | Cloudless Sulphur | Lawrence | 07/14/2009 | Chauncey Marsh | |
| <i>Eurema lisa</i> | Little Yellow | Lawrence | 08/25/2009 | Chauncey Marsh | * |
| <i>Lycaena hyllus</i> | Bronze Copper | Lawrence | 10/05/2009 | Chauncey Marsh | * |
| <i>Phoebis sennae</i> | Cloudless Sulphur | Lawrence | 09/18/2008 | Chauncey Marsh | * |
| <i>Euptoieta claudia</i> | Variiegated Fritillary | Lawrence | 09/18/2008 | Chauncey Marsh | * |
| <i>Danaus plexippus</i> | Monarch | Lawrence | 09/18/2008 | Red Hills SP | * |
| <i>Papilio troilus</i> | Spicebush Swallowtail | Lawrence | 07/14/2009 | Red Hills SP | * |
| <i>Papilio glaucus</i> | Eastern Tiger Swallowtail | Lawrence | 07/14/2009 | Red Hills SP | * |
| <i>Battus philenor</i> | Pipevine Swallowtail | Lawrence | 07/14/2009 | Red Hills SP | |
| <i>Limenitis archippus</i> | Viceroy | Lawrence | 08/25/2009 | Red Hills SP | |
| <i>Asterocampa clyton</i> | Tawny Emperor | Lawrence | 08/25/2009 | Red Hills SP | * |
| <i>Asterocampa clyton</i> | Tawny Emperor | Lawrence | 08/25/2009 | Red Hills SP | |
| <i>Strymon melinus</i> | Gray Hairstreak | Lawrence | 09/14/2009 | Red Hills SP | * |
| <i>Cylopsis gemma</i> | Gemmed Satyr | Lawrence | 10/05/2009 | Red Hills SP | * |
| <i>Ancyloxypha numitor</i> | Least Skipper | Lawrence | 10/05/2009 | Red Hills SP | * |
| <i>Pieris rapae</i> | Cabbage White | Lawrence | 09/18/2008 | Red Hills SP Prairie | * |
| <i>Colias eurytheme</i> | Orange Sulphur | Lawrence | 09/18/2008 | Red Hills SP Prairie | * |
| <i>Libytheana carinenta</i> | American Snout | Lawrence | 09/18/2008 | Red Hills SP Prairie | * |
| <i>Phyciodes tharos</i> | Pearl Crescent | Lawrence | 09/18/2008 | Red Hills SP Prairie | * |
| <i>Junonia coenia</i> | Common Buckeye | Lawrence | 09/18/2008 | Red Hills SP Prairie | * |
| <i>Vanessa cardui</i> | Painted Lady | Lawrence | 09/18/2008 | Red Hills SP Prairie | * |
| <i>Limenitis arthemis astyanax</i> | Red-spotted Purple | Lawrence | 07/29/2009 | Red Hills SP | * |
| <i>Speyeria cybele</i> | Great Spangled Fritillary | Lawrence | 08/03/2009 | Red Hills SP | * |
| <i>Papilio glaucus</i> | Eastern Tiger Swallowtail | Lawrence | 08/03/2009 | Red Hills SP | |
| <i>Chlosyne nycteis</i> | Silvery Checkerspot | Lawrence | 08/03/2009 | Red Hills SP | * |
| <i>Epargyreus clarus</i> | Silver-spotted Skipper | Lawrence | 05/22/2009 | Red Hills SP | * |
| <i>Everes comyntas</i> | Eastern-Tailed Blue | Lawrence | 05/22/2009 | Red Hills SP | * |
| <i>Eurytides marcellus</i> | Zebra Swallowtail | Lawrence | 07/29/2009 | Siddens Farm | * |
| <i>Polygonia interrogationis</i> | Question Mark | Lawrence | 07/29/2009 | Siddens Farm | * |
| <i>Polygonia comma</i> | Eastern Comma | Lawrence | 07/29/2009 | Siddens Farm | * |
| <i>Asterocampa celtis</i> | Hackberry Emperor | Lawrence | 07/29/2009 | Siddens Farm | * |
| <i>Limenitis archippus</i> | Viceroy | Lawrence | 08/28/2008 | White Farm | |
| <i>Erynnis baptisiae</i> | Wild Indigo Duskywing | Lawrence | 09/14/2009 | Red Hills SP | * |
| <i>Hylephila phyleus</i> | Fiery Skipper | Lawrence | 09/14/2009 | Red Hills SP | * |
| <i>Atalopedes campestris</i> | Sachem | Lawrence | 09/14/2009 | Red Hills SP | * |
| <i>Pholisora cattullus</i> | Common Sootywing | Lawrence | 07/29/2009 | Red Hills SP | * |
| <i>Erynnis horatius</i> | Horace's Duskywing | Lawrence | 07/29/2009 | Red Hills SP | * |
| <i>Euphyes vestris</i> | Dun Skipper | Lawrence | 07/29/2009 | Red Hills SP | * |
| <i>Junonia coenia</i> | Common Buckeye | Clay | 08/26/2009 | Flag Pond North | * |
| <i>Euptoieta claudia</i> | Variiegated Fritillary | Clay | 07/13/2009 | Flag Pond South | * |
| <i>Danaus plexippus</i> | Monarch | Clay | 08/10/2009 | Flag Pond South | * |
| <i>Enodia anthedon</i> | Northern Pearly-eye | Clay | 08/10/2009 | Flag Pond South | * |
| <i>Papilio troilus</i> | Spicebush Swallowtail | Clay | 08/10/2009 | Little Wabash River | |
| <i>Eurema lisa</i> | Little Yellow | Clay | 08/10/2009 | Little Wabash River | * |

Southern Till Plain Survey Vouchered Specimens

| Scientific Name | Common Name | County | Date | Location | County Records Vouchered at ISM |
|-------------------------------------|---------------------------|----------|------------|-----------------------|---------------------------------|
| <i>Eurytides marcellus</i> | Zebra Swallowtail | Clay | 07/13/2009 | Martin T. Snyder NP | |
| <i>Limenitis arthemis atstyanax</i> | Red-spotted Purple | Clay | 07/13/2009 | Martin T. Snyder NP | * |
| <i>Speyeria cybele</i> | Great Spangled Fritillary | Clay | 07/13/2009 | Martin T. Snyder NP | * |
| <i>Papilio glaucus</i> | Eastern Tiger Swallowtail | Clay | 07/13/2009 | Martin T. Snyder NP | * |
| <i>Polygonia interrogationis</i> | Question Mark | Clay | 07/13/2009 | Martin T. Snyder NP | * |
| <i>Libytheana carinenta</i> | American Snout | Clay | 07/13/2009 | Martin T. Snyder NP | * |
| <i>Megisto cymela</i> | Little Wood-Satyr | Clay | 07/13/2009 | Martin T. Snyder NP | * |
| <i>Satyrodes appalachia</i> | Appalachian Brown | Clay | 07/13/2009 | Martin T. Snyder NP | * |
| <i>Satyrodes appalachia</i> | Appalachian Brown | Clay | 07/13/2009 | Martin T. Snyder NP | |
| <i>Limenitis arthemis astyanax</i> | Red-spotted Purple | Clay | 07/21/2009 | Martin T. Snyder NP | * |
| <i>Polygonia comma</i> | Eastern Comma | Clay | 07/21/2009 | Martin T. Snyder NP | * |
| <i>Polygonia comma</i> | Eastern Comma | Clay | 07/21/2009 | Martin T. Snyder NP | * |
| <i>Limenitis archippus</i> | Viceroy | Clay | 08/26/2009 | Martin T. Snyder NP | * |
| <i>Satyrodes appalachia</i> | Appalachian Brown | Clay | 08/26/2009 | Martin T. Snyder NP | |
| <i>Eurytides marcellus</i> | Zebra Swallowtail | Clay | 05/05/2009 | Martin T. Snyder NP | * |
| <i>Vanessa atalanta</i> | Red Admiral | Clay | 05/05/2009 | Martin T. Snyder NP | * |
| <i>Cylopsis gemma</i> | Gemmed Satyr | Clay | 05/05/2009 | Martin T. Snyder NP | * |
| <i>Phyciodes tharos</i> | Pearl Crescent | Clay | 05/05/2009 | Martin T. Snyder NP | * |
| <i>Pieris rapae</i> | Cabbage White | Clay | 09/11/2008 | Xenia RR Prairie | * |
| <i>Colias eurytheme</i> | Orange Sulphur | Clay | 09/11/2008 | Xenia RR Prairie | * |
| <i>Colias eurytheme</i> | Orange Sulphur | Clay | 09/11/2008 | Xenia RR Prairie | |
| <i>Colias eurytheme</i> | Orange Sulphur | Clay | 09/11/2008 | Xenia RR Prairie | |
| <i>Phoebis sennae</i> | Cloudless Sulphur | Clay | 09/11/2008 | Xenia RR Prairie | * |
| <i>Vanessa cardui</i> | Painted Lady | Clay | 09/11/2008 | Xenia RR Prairie | * |
| <i>Vanessa cardui</i> | Painted Lady | Clay | 09/11/2008 | Xenia RR Prairie | |
| <i>Poanes zabulon</i> | Zabulon Skipper | Clay | 05/12/2009 | Flag Pond | * |
| <i>Erynnis horatius</i> | Horace's Duskywing | Clay | 07/21/2009 | Martin T. Snyder NP | * |
| <i>Epargyreus clarus</i> | Silver-spotted Skipper | Clay | 07/21/2009 | Martin T. Snyder NP | * |
| <i>Erynnis baptisiae</i> | Wild Indigo Duskywing | Clay | 05/05/2009 | Martin T. Snyder NP | * |
| <i>Colias eurytheme</i> | Orange Sulphur | Marion | 09/10/2008 | Miller Shrub Swamp NP | |
| <i>Enodia anhedon</i> | Northern Pearly-eye | Marion | 09/10/2008 | Miller Shrub Swamp NP | * |
| <i>Satyrodes appalachia</i> | Appalachian Brown | Marion | 09/10/2008 | Miller Shrub Swamp NP | |
| <i>Cercyonis pegala</i> | Common Wood Nymph | Marion | 07/10/2009 | Miller Shrub Swamp NP | |
| <i>Satyrodes appalachia</i> | Appalachian Brown | Marion | 07/10/2009 | Miller Shrub Swamp NP | |
| <i>Satyrodes appalachia</i> | Appalachian Brown | Marion | 07/10/2009 | Miller Shrub Swamp NP | |
| <i>Megisto cymela</i> | Little Wood-Satyr | Marion | 07/10/2009 | Miller Shrub Swamp NP | |
| <i>Battus philenor</i> | Pipevine Swallowtail | Marion | 09/15/2009 | Miller Shrub Swamp NP | |
| <i>Euphyes vestris</i> | Dun Skipper | Marion | 09/10/2008 | Miller Shrub Swamp NP | * |
| <i>Ancyloxypha numitor</i> | Least Skipper | Marion | 09/10/2008 | Miller Shrub Swamp NP | * |
| <i>Celithemis eponina</i> | Halloween Pennant | Lawrence | 09/18/2008 | Chauncey Marsh | |
| <i>Somatochlora linearis</i> | Mocha Emerald | Lawrence | 07/14/2009 | Chauncey Marsh | * |
| <i>Nasiaeschna pentacantha</i> | Cyrano Darner | Lawrence | 06/17/2009 | Chauncey Marsh | * |
| <i>Epiaeschna heros</i> | Swamp Darner | Lawrence | 06/07/2009 | Chauncey Marsh | * |
| <i>Epiaeschna heros</i> | Swamp Darner | Lawrence | 06/07/2009 | Chauncey Marsh | |
| <i>Epithea princeps</i> | Prince Baskettail | Lawrence | 06/07/2009 | Chauncey Marsh | * |

Southern Till Plain Survey Vouchered Specimens

| Scientific Name | Common Name | County | Date | Location | County Record Vouchered at ISM |
|---------------------------------|------------------------|----------|------------|-----------------------|--------------------------------|
| <i>Pantala flavescens</i> | Wandering Glider | Lawrence | 07/29/2009 | Chauncey Marsh | * |
| <i>Perithemis tenera</i> | Eastern Amberwing | Lawrence | 06/07/2009 | Chauncey Marsh | * |
| <i>Stylurus plagiatus</i> | Russet-tipped Clubtail | Lawrence | 08/11/2009 | Embarras River | * |
| <i>Celithemis eponina</i> | Halloween Pennant | Lawrence | 09/18/2008 | Red Hills SP | * |
| <i>Epithea costalis</i> | Slender Baskettail | Lawrence | 05/12/2009 | Red Hills SP | * |
| <i>Libellula cyanea</i> | Spangled Skimmer | Lawrence | 05/22/2009 | Red Hills SP | * |
| <i>Libellula incesta</i> | Slaty Skimmer | Lawrence | 06/07/2009 | Red Hills SP | * |
| <i>Gomphus externus</i> | Plains Clubtail | Lawrence | 06/07/2009 | Red Hills SP | * |
| <i>Sympetrum ambiguum</i> | Blue-faced Meadowhawk | Lawrence | 08/25/2009 | Red Hills SP | |
| <i>Anax junius</i> | Common Green Darner | Lawrence | 08/28/2008 | Sidden Property | |
| <i>Erythemis simplicicollis</i> | Common Pondhawk | Lawrence | 08/28/2008 | Sidden Property | |
| <i>Sympetrum ambiguum</i> | Blue-faced Meadowhawk | Lawrence | 08/28/2008 | Sidden Property | * |
| <i>Sympetrum ambiguum</i> | Blue-faced Meadowhawk | Lawrence | 08/28/2008 | Sidden Property | |
| <i>Pachydiplax longipennis</i> | Blue Dasher | Lawrence | 08/28/2008 | White Farm Property | |
| <i>Libellula lydia</i> | Common Whitetail | Lawrence | 08/28/2008 | White Farm Property | |
| <i>Argia tibialis</i> | Blue-tipped Dancer | Lawrence | 08/11/2009 | Embarras River | * |
| <i>Libellula incesta</i> | Slaty Skimmer | Clay | 07/21/2009 | Flag Pond N | |
| <i>Libellula incesta</i> | Slaty Skimmer | Clay | 07/13/2009 | Flag Pond N | * |
| <i>Epiaeschna heros</i> | Swamp Darner | Clay | 08/10/2009 | Flag Pond South | |
| <i>Libellula vibrans</i> | Great Blue Skimmer | Clay | 09/16/2009 | Flag Pond South | |
| <i>Macromia illinoisensis</i> | Swift River Cruiser | Clay | 08/13/2009 | Little Wabash River | |
| <i>Stylurus plagiatus</i> | Russet-tipped Clubtail | Clay | 08/10/2009 | Little Wabash River | |
| <i>Macromia taeniolata</i> | Royal River Cruiser | Clay | 08/13/2009 | Little Wabash River | |
| <i>Epithea costalis</i> | Slender Baskettail | Clay | 05/05/2009 | Martin T. Snyder NP | |
| <i>Epithea costalis</i> | Slender Baskettail | Clay | 05/05/2009 | Martin T. Snyder NP | |
| <i>Basiaeschna janata</i> | Springtime Darner | Clay | 05/05/2009 | Martin T. Snyder NP | |
| <i>Basiaeschna janata</i> | Springtime Darner | Clay | 05/05/2009 | Martin T. Snyder NP | |
| <i>Somatochlora linearis</i> | Mocha Emerald | Clay | 07/13/2009 | Martin T. Snyder NP | * |
| <i>Macromia taeniolata</i> | Royal River Cruiser | Clay | 07/13/2009 | Martin T. Snyder NP | |
| <i>Nasiaeschna pentacantha</i> | Cyrano Darner | Clay | 07/21/2009 | Martin T. Snyder NP | * |
| <i>Progomphus obscurus</i> | Common Sanddragon | Clay | 07/21/2009 | Martin T. Snyder NP | |
| <i>Progomphus obscurus</i> | Common Sanddragon | Clay | 07/21/2009 | Martin T. Snyder NP | |
| <i>Sympetrum ambiguum</i> | Blue-faced Meadowhawk | Clay | 08/26/2009 | Martin T. Snyder NP | |
| <i>Ischnura posita</i> | Fragile Forktail | Clay | 07/21/2009 | Flag Pond N | * |
| <i>Argia moesta</i> | Powdered Dancer | Clay | 08/10/2009 | Little Wabash River | |
| <i>Argia tibialis</i> | Blue-tipped Dancer | Clay | 07/21/2009 | Martin T. Snyder NP | * |
| <i>Sympetrum ambiguum</i> | Blue-faced Meadowhawk | Marion | 09/10/2008 | Miller Shrub Swamp NP | |
| <i>Libellula incesta</i> | Slaty Skimmer | Marion | 07/10/2009 | Miller Shrub Swamp NP | |
| <i>Lestes rectangularis</i> | Slender Spreadwing | Marion | 09/13/2009 | Miller Shrub Swamp NP | |
| <i>Stylurus plagiatus</i> | Russet-tipped Clubtail | Jasper | 08/13/2009 | Embarras River | * |
| <i>Stylurus plagiatus</i> | Russet-tipped Clubtail | Jasper | 08/13/2009 | Embarras River | |
| <i>Macromia illinoisensis</i> | Swift River Cruiser | Jasper | 08/13/2009 | Embarras River | * |

Southern Till Plain Species Checklist

BUTTERFLIES

Pipevine Swallowtail *Battus philenor*
Zebra Swallowtail *Eurytides marcellus*
Black Swallowtail *Papilio polyxenes*
Eastern Tiger Swallowtail *Papilio glaucus*
Spicebush Swallowtail *Papilio troilus*
Checkered White *Pontia protodice*
Cabbage White *Pieris rapae*
Clouded Sulphur *Colias philodice*
Orange Sulphur *Colias eurytheme*
Southern Dogface *Colias cesonia*
Cloudless Sulphur *Phoebis sennae*
Little Yellow *Eurema lisa*
Bronze Copper *Lycaena hylus*
Gray Hairstreak *Strymon melinus*
Eastern Tailed-Blue *Everes comyntas*
Spring Azure *Celastrina ladon*
'Summer' Spring Azure *Celastrina ladon neglecta*
American Snout *Libytheana carinenta*
Variegated Fritillary *Euptoieta claudia*
Great Spangled Fritillary *Speyeria cybele*
Silvery Checkerspot *Chlosyne nycteis*
Pearl Crescent *Phyciodes tharos*
Question Mark *Polygonia interrogationis*
Eastern Comma *Polygonia comma*
Mourning Cloak *Nymphalis antiopa*
Painted Lady *Vanessa cardui*
Red Admiral *Vanessa atalanta*
Common Buckeye *Junonia coenia*
Red-spotted Purple *Limenitis arthemis astyanax*
Viceroy *Limenitis archippus*
Hackberry Emperor *Asterocampa celtis*
Tawny Emperor *Asterocampa clyton*
Northern Pearly-eye *Enodia anthedon*
Appalachian Brown *Satyroides appalachia*
Gemmed Satyr *Cyllopsis gemma*
Little Wood-Satyr *Megisto cymela*
Common Wood-Nymph *Cercyonis pegala*
Monarch *Danaus plexippus*

SKIPPERS

Silver-spotted Skipper *Epargyreus clarus*
Horace's Duskywing *Erynnis horatius*
Wild Indigo Duskywing *Erynnis baptisiae*
Common Sootywing *Pholisora catullus*
Least Skipper *Ancyloxypha numitor*
Fiery Skipper *Hylephila phyleus*
Peck's Skipper *Polites peckius*
Tawny-edged Skipper *Polites themistocles*
Sachem *Atalopedes campestris*
Zabulon Skipper *Poanes zabulon*
Dun Skipper *Euphyes vestris*

DRAGONFLIES

Common Green Darner *Anax junius*
Springtime Darner *Basiaeschna janata*
Swamp Darner *Epiaeschna heros*
Cyrano Darner *Nasiaeschna pentacantha*
Flag-tailed Spinyleg *Dromogomphus spoliatus*
Plains Clubtail *Gomphus externus*
Common Sanddragon *Progomphus obscurus*
Russet-tipped Clubtail *Stylurus plagiatus*
Arrowhead Spiketail *Cordulegaster obliqua*
Stream Cruiser *Didymops transversa*
Prince Baskettail *Epiheca princeps*
Slender Baskettail *Epiheca costalis*
Swift River Cruiser *Macromia illinoiensis*
Royal River Cruiser *Macromia taeniolata*
Mocha Emerald *Somatochlora linearis*
Calico Pennant *Celithemis elisa*
Halloween Pennant *Celithemis eponina*
Common Pondhawk *Erythemis simplicicollis*
Spangled Skimmer *Libellula cyanea*
Slaty Skimmer *Libellula incesta*
Widow Skimmer *Libellula luctuosa*
Twelve-spotted Skimmer *Libellula pulchella*
Great Blue Skimmer *Libellula vibrans*
Blue Dasher *Pachydiplax longipennis*
Wandering Glider *Pantala flavescens*
Eastern Amberwing *Perithemis tenera*
Common Whitetail *Plathemis lydia*
Blue-faced Meadowhawk *Sympetrum ambiguum*
Carolina Saddlebags *Tramea carolina*
Black Saddlebags *Tramea lacerata*

DAMSELFLIES

Ebony Jewelwing *Calopteryx maculata*
American Rubyspot *Hetaerina americana*
Sweetflag Spreadwing *Lestes forcipatus*
Slender Spreadwing *Lestes rectangularis*
Blue-ringed Dancer *Argia sedula*
Blue-tipped Dancer *Argia tibialis*
Fragile Forktail *Ischnura posita*
Eastern Forktail *Ischnura verticalis*

Chauncey Marsh Checklist of Butterflies, Skippers, Dragonflies and Damselflies

BUTTERFLIES

SWALLOWTAILS *Papilionidae*

Zebra Swallowtail *Eurytides marcellus*
Black Swallowtail *Papilio polyxenes*
Eastern Tiger Swallowtail *Papilio glaucus*
Spicebush Swallowtail *Papilio troilus*

WHITES & SULPHURS *Pieridae*

Cabbage White *Pieris rapae*
Clouded Sulphur *Colias philodice*
Orange Sulphur *Colias eurytheme*
Cloudless Sulphur *Phoebis sennae*
Little Yellow *Eurema lisa*

GOSSAMER-WINGED *Lycaenidae*

Bronze Copper *Lycaena hyllus*
Eastern Tailed-Blue *Everes comyntas*

BRUSHFOOTS *Nymphalidae*

Variiegated Fritillary *Euptoieta claudia*
Great Spangled Fritillary *Speyeria cybele*
Silvery Checkerspot *Chlosyne nycteis*
Pearl Crescent *Phyciodes tharos*
Question Mark *Polygonia interrogationis*
Mourning Cloak *Nymphalis antiopa*
Painted Lady *Vanessa cardui*
Red Admiral *Vanessa atalanta*
Common Buckeye *Junonia coenia*
Red-spotted Purple *Limenitis arthemis astyanax*
Viceroy *Limenitis archippus*
Hackberry Emperor *Asterocampa celtis*

MONARCHS *Danaidae*

Monarch *Danaus plexippus*

SKIPPERS *Hesperiidae*

Silver-spotted Skipper *Epargyreus clarus*
Least Skipper *Ancyloxypha numitor*
Zabulon Skipper *Poanes zabulon*

DRAGONFLIES

AESHNIDAE - Darners

Common Green Darner *Anax junius*
Swamp Darner *Epiaeschna heros*
Cyrano Darner *Nasiaeschna pentacantha*

CORDULIIDAE – Emeralds

Prince Baskettail *Epitheca princeps*
Mocha Emerald *Somatochlora linearis*

LIBELLULIDAE - Skimmers

Halloween Pennant *Celithemis eponina*
Common Pondhawk *Erythemis simplicicollis*
Slaty Skimmer *Libellula incesta*
Widow Skimmer *Libellula luctuosa*
Twelve-spotted Skimmer *Libellula pulchella*
Great Blue Skimmer *Libellula vibrans*
Blue Dasher *Pachydiplax longipennis*
Wandering Glider *Pantala flavescens*
Eastern Amberwing *Perithemis tenera*
Common Whitetail *Plathemis lydia*
Blue-faced Meadowhawk *Sympetrum ambiguum*
Carolina Saddlebags *Tamea carolina*
Black Saddlebags *Tamea lacerata*

DAMSELFLIES

CALOPTERYGIDAE – Broad-winged Damsels

Ebony Jewelwing *Calopteryx maculata*

COENAGRIONIDAE - Pond Damsels

Eastern Forktail *Ischnura verticalis*

Chauncey Marsh Site Surveys

Survey Name: Southern Till Plain

Weather: P. Cloudy low 80s

Location: Chauncey Marsh

Hours: 4

Date: 18 May 2009

Observers: R. Day

BUTTERFLIES

- X Black Swallowtail *Papilio polyxenes*
- X Eastern Tiger Swallowtail *Papilio glaucus*
- X Cabbage White *Pieris rapae*
- X Orange Sulphur *Colias eurytheme*
- X Bronze Copper *Lycaena hyllus*
- X Eastern Tailed-Blue *Everes comyntas*
- X Question Mark *Polygonia interrogationis*
- X Monarch *Danaus plexippus*

DRAGONFLIES

- X Common Green Darner *Anax junius*
- X Common Pondhawk *Erythemis simplicicollis*
- X Common Whitetail *Plathemis lydia*
- X Widow Skimmer *Libellula luctuosa*
- X Black Saddlebags *Tramea lacerata*

NOTES

Chauncey Marsh was flooded. The river was out east of marsh. Surveyed grassland but was unable to go on the west side of property due to flooded road.

Survey Name: Southern Till Plain

Weather: P. Cloudy low 80s

Location: Chauncey Marsh

Hours: 3.5

Date: 22 May 2009

Observers: R. Day

BUTTERFLIES

- X Black Swallowtail *Papilio polyxenes*
- X Eastern Tiger Swallowtail *Papilio glaucus*
- X Cabbage White *Pieris rapae*
- X Orange Sulphur *Colias eurytheme*
- X Bronze Copper *Lycaena hyllus*
- X Eastern Tailed-Blue *Everes comyntas*
- X Question Mark *Polygonia interrogationis*
- X Monarch *Danaus plexippus*

DRAGONFLIES

- X Common Green Darner *Anax junius*
- X Common Whitetail *Plathemis lydia*
- X Black Saddlebags *Tramea lacerata*

NOTES

Chauncey Marsh was flooded. The river was out east of marsh. Surveyed grassland but was unable to go on the west side of property due to flooded road.

Chauncey Marsh Site Surveys

Survey Name: Southern Till Plain

Weather: P. Cloudy low 80s

Location: Chauncey Marsh

Hours: 6.5

Date: 7 Jun 2009

Observers: R. Day

BUTTERFLIES

- X Eastern Tiger Swallowtail *Papilio glaucus*
- X Cabbage White *Pieris rapae*
- X Orange Sulphur *Colias eurytheme*
- X Question Mark *Polygonia interrogationis*
- X Viceroy *Limenitis archippus*
- X Silver-spotted Skipper *Epargyreus clarus*
- X Least Skipper *Ancyloxypha numitor*

DRAGONFLIES

- X Common Green Darner *Anax junius*
- X Swamp Darner *Epiaeschna heros*
- X Prince Baskettail *Epietheca princeps*
- X Ebony Jewelwing *Calopteryx maculata*
- X Eastern Forktail *Ischnura verticalis*
- X Common Pondhawk *Erythemis simplicicollis*
- X Twelve-spotted Skimmer *Libellula pulchella*
- X Blue Dasher *Pachydiplax longipennis*
- X Eastern Amberwing *Perithemis tenera*
- X Common Whitetail *Plathemis lydia*
- X Black Saddlebags *Tamea lacerata*

NOTES

The flood water was down but still not many species flying. It's been a cool wet spring. Saw an Aeshna sp. in the NE corner of Chauncey Marsh

Survey Name: Southern Till Plain

Weather: P. Cloudy low 80s

Location: Chauncey Marsh

Hours: 5.5

Date: 14 Jun 2009

Observers: R. Day

BUTTERFLIES

- X Eastern Tiger Swallowtail *Papilio glaucus*
- X Spicebush Swallowtail *Papilio troilus*
- X Cabbage White *Pieris rapae*
- X Orange Sulphur *Colias eurytheme*
- X Cloudless Sulphur *Phoebis sennae*
- X Eastern Tailed-Blue *Everes comyntas*
- X Question Mark *Polygonia interrogationis*
- X Red Admiral *Vanessa atalanta*
- X Monarch *Danaus plexippus*
- X Silver-spotted Skipper *Epargyreus clarus*
- X Least Skipper *Ancyloxypha numitor*

DRAGONFLIES

- X Common Green Darner *Anax junius*
- X Cyrano Darner *Nasiaeschna pentacantha*
- X Prince Baskettail *Epietheca princeps*
- X Common Pondhawk *Erythemis simplicicollis*
- X Slaty Skimmer *Libellula incesta*
- X Widow Skimmer *Libellula luctuosa*
- X Twelve-spotted Skimmer *Libellula pulchella*
- X Great Blue Skimmer *Libellula vibrans*
- X Blue Dasher *Pachydiplax longipennis*
- X Eastern Amberwing *Perithemis tenera*
- X Common Whitetail *Plathemis lydia*
- X Black Saddlebags *Tamea lacerata*

Chauncey Marsh Site Surveys

Survey Name: Southern Till Plain

Weather: P. Cloudy low 80s

Location: Chauncey Marsh

Hours: 5.5

Date: 17 Jun 2009

Observers: R. Day

BUTTERFLIES

- X Zebra Swallowtail *Eurytides marcellus*
- X Spicebush Swallowtail *Papilio troilus*
- X Cabbage White *Pieris rapae*
- X Clouded Sulphur *Colias philodice*
- X Orange Sulphur *Colias eurytheme*
- X Eastern Tailed-Blue *Everes comyntas*
- X Great Spangled Fritillary *Speyeria cybele*
- X Pearl Crescent *Phyciodes tharos*
- X Question Mark *Polygonia interrogationis*
- X Mourning Cloak *Nymphalis antiopa*
- X Painted Lady *Vanessa cardui*
- X Monarch *Danaus plexippus*
- X Silver-spotted Skipper *Epargyreus clarus*

DRAGONFLIES

- X Common Green Darner *Anax junius*
- X Swamp Darner *Epiaeschna heros*
- X Cyrano Darner *Nasiaeschna pentacantha*
- X Common Pondhawk *Erythemis simplicicollis*
- X Slaty Skimmer *Libellula incesta*
- X Widow Skimmer *Libellula luctuosa*
- X Twelve-spotted Skimmer *Libellula pulchella*
- X Blue Dasher *Pachydiplax longipennis*
- X Eastern Amberwing *Perithemis tenera*
- X Common Whitetail *Plathemis lydia*
- X Carolina Saddlebags *Tramea carolina*
- X Black Saddlebags *Tramea lacerata*

Survey Name: Southern Till Plain

Weather: P. Cloudy low 80s

Location: Chauncey Marsh

Hours: 6.5

Date: 14 Jul 2009

Observers: R. Day

BUTTERFLIES

- X Spicebush Swallowtail *Papilio troilus*
- X Orange Sulphur *Colias eurytheme*
- X Cloudless Sulphur *Phoebis sennae*
- X Eastern Tailed-Blue *Everes comyntas*
- X Variegated Fritillary *Euptoieta claudia*
- X Question Mark *Polygonia interrogationis*
- X Monarch *Danaus plexippus*
- X Silver-spotted Skipper *Epargyreus clarus*

DRAGONFLIES

- X Common Green Darner *Anax junius*
- X Cyrano Darner *Nasiaeschna pentacantha*
- X Prince Baskettail *Epitheca princeps*
- X Mocha Emerald *Somatochlora linearis*
- X Common Pondhawk *Erythemis simplicicollis*
- X Slaty Skimmer *Libellula incesta*
- X Widow Skimmer *Libellula luctuosa*
- X Twelve-spotted Skimmer *Libellula pulchella*
- X Great Blue Skimmer *Libellula vibrans*
- X Blue Dasher *Pachydiplax longipennis*
- X Wandering Glider *Pantala flavescens*
- X Eastern Amberwing *Perithemis tenera*
- X Common Whitetail *Plathemis lydia*
- X Carolina Saddlebags *Tramea carolina*
- X Black Saddlebags *Tramea lacerata*

Chauncey Marsh Site Surveys

Survey Name: Southern Till Plain

Weather: P. Cloudy low 80s

Location: Chauncey Marsh

Hours: 4

Date: 3 Aug 2009

Observers: R. Day

BUTTERFLIES

- X Spicebush Swallowtail *Papilio troilus*
- X Orange Sulphur *Colias eurytheme*
- X Cloudless Sulphur *Phoebis sennae*
- X Little Yellow *Eurema lisa*
- X Eastern Tailed-Blue *Everes comyntas*
- X Variegated Fritillary *Euptoieta claudia*
- X Pearl Crescent *Phyciodes tharos*
- X Question Mark *Polygonia interrogationis*
- X Painted Lady *Vanessa cardui*
- X Common Buckeye *Junonia coenia*
- X Monarch *Danaus plexippus*
- X Silver-spotted Skipper *Epargyreus clarus*

DRAGONFLIES

- X Common Green Darner *Anax junius*
- X Cyrano Darner *Nasiaeschna pentacantha*
- X Prince Baskettail *Epitheca princeps*
- X Halloween Pennant *Celithemis eponina*
- X Common Pondhawk *Erythemis simplicicollis*
- X Slaty Skimmer *Libellula incesta*
- X Widow Skimmer *Libellula luctuosa*
- X Twelve-spotted Skimmer *Libellula pulchella*
- X Great Blue Skimmer *Libellula vibrans*
- X Blue Dasher *Pachydiplax longipennis*
- X Wandering Glider *Pantala flavescens*
- X Eastern Amberwing *Perithemis tenera*
- X Common Whitetail *Plathemis lydia*
- X Black Saddlebags *Tramea lacerata*

Survey Name: Southern Till Plain

Weather: Sunny upper 80s

Location: Chauncey Marsh

Hours: 4

Date: 11 Aug 2009

Observers: R. Day

BUTTERFLIES

- X Spicebush Swallowtail *Papilio troilus*
- X Orange Sulphur *Colias eurytheme*
- X Cloudless Sulphur *Phoebis sennae*
- X Little Yellow *Eurema lisa*
- X Eastern Tailed-Blue *Everes comyntas*
- X Variegated Fritillary *Euptoieta claudia*
- X Silvery Checkerspot *Chlosyne nycteis*
- X Pearl Crescent *Phyciodes tharos*
- X Question Mark *Polygonia interrogationis*
- X Red Admiral *Vanessa atalanta*
- X Red-spotted Purple *Limenitis arthemis astyanax*
- X Hackberry Emperor *Asterocampa celtis*
- X Monarch *Danaus plexippus*
- X Silver-spotted Skipper *Epargyreus clarus*
- X Zabulon Skipper *Poanes zabulon*

DRAGONFLIES

- X Common Green Darner *Anax junius*
- X Prince Baskettail *Epitheca princeps*
- X Halloween Pennant *Celithemis eponina*
- X Common Pondhawk *Erythemis simplicicollis*
- X Slaty Skimmer *Libellula incesta*
- X Widow Skimmer *Libellula luctuosa*
- X Twelve-spotted Skimmer *Libellula pulchella*
- X Great Blue Skimmer *Libellula vibrans*
- X Blue Dasher *Pachydiplax longipennis*
- X Eastern Amberwing *Perithemis tenera*
- X Common Whitetail *Plathemis lydia*
- X Black Saddlebags *Tramea lacerata*

Chauncey Marsh Site Surveys

Survey Name: Southern Till Plain **Weather: P. Cloudy upper 80s**

Location: Chauncey Marsh **Hours: 4.5**

Date: 25 Aug 2009 **Observers: R. Day**

BUTTERFLIES

- X Cabbage White *Pieris rapae*
- X Cloudless Sulphur *Phoebis sennae*
- X Little Yellow *Eurema lisa*
- X Eastern Tailed-Blue *Everes comyntas*
- X Pearl Crescent *Phyciodes tharos*
- X Silver-spotted Skipper *Epargyreus clarus*
- X Viceroy *Limenitis archippus*
- X Monarch *Danaus plexippus*

DRAGONFLIES

- X Common Green Darner *Anax junius*
- X Widow Skimmer *Libellula luctuosa*
- X Twelve-spotted Skimmer *Libellula pulchella*
- X Eastern Amberwing *Perithemis tenera*
- X Common Whitetail *Plathemis lydia*
- X Black Saddlebags *Tramea lacerata*

Survey Name: Southern Till Plain **Weather: P. Cloudy low 80s**

Location: Chauncey Marsh **Hours: 4**

Date: 14 Sep 2009 **Observers: R. Day**

BUTTERFLIES

- X Cabbage White *Pieris rapae*
- X Orange Sulphur *Colias eurytheme*
- X Cloudless Sulphur *Phoebis sennae*
- X Little Yellow *Eurema lisa*
- X Eastern Tailed-Blue *Everes comyntas*
- X Question Mark *Polygonia interrogationis*
- X Silver-spotted Skipper *Epargyreus clarus*
- X Red-spotted Purple *Limenitis arthemis astyanax*
- X Viceroy *Limenitis archippus*
- X Monarch *Danaus plexippus*

DRAGONFLIES

- X Common Green Darner *Anax junius*
- X Blue Dasher *Pachydiplax longipennis*
- X Blue-faced Meadowhawk *Sympetrum ambiguum*

NOTES

Wetland drained

Survey Name: Southern Till Plain **Weather: Sunny mid 80s**

Location: Chauncey Marsh **Hours: 3**

Date: 18 Sep 2008

BUTTERFLIES

- X Cabbage White *Pieris rapae*
- X Orange Sulphur *Colias eurytheme*
- X Cloudless Sulphur *Phoebis sennae*
- X Little Yellow *Eurema lisa*
- X Eastern Tailed-Blue *Everes comyntas*
- X Variegated Fritillary *Euptoieta claudia*
- X Pearl Crescent *Phyciodes tharos*
- X Painted Lady *Vanessa cardui*
- X Common Buckeye *Junonia coenia*
- X Red-spotted Purple *Limenitis arthemis astyanax*
- X Monarch *Danaus plexippus*
- X Silver-spotted Skipper *Epargyreus clarus*

DRAGONFLIES

- X Halloween Pennant *Celithemis eponina*

Chauncey Marsh Site Surveys

Survey Name: Southern Till Plain

Weather: P. Cloudy low 80s

Location: Chauncey Marsh

Hours: 3

Date: 5 Oct 2009

Observers: R. Day

BUTTERFLIES

- X Cabbage White *Pieris rapae*
- X Orange Sulphur *Colias eurytheme*
- X Cloudless Sulphur *Phoebis sennae*
- X Bronze Copper *Lycaena hyllus*
- X Eastern Tailed-Blue *Everes comyntas*
- X Pearl Crescent *Phyciodes tharos*
- X Common Buckeye *Junonia coenia*

DRAGONFLIES

- X Common Green Darner *Anax junius*
- X Common Whitetail *Plathemis lydia*

Insect Survey Locations
Chauncey Marsh Lawrence County
N38° 50' 10.9" W87° 46' 59.0"
N38° 50' 42.6" W87° 47' 27.2"



Flag Pond Checklist of Butterflies, Skippers, Dragonflies and Damselflies

BUTTERFLIES

SWALLOWTAILS *Papilionidae*

Pipevine Swallowtail *Battus philenor*
Zebra Swallowtail *Eurytides marcellus*
Eastern Tiger Swallowtail *Papilio glaucus*
Spicebush Swallowtail *Papilio troilus*

WHITES & SULPHURS *Pieridae*

Cabbage White *Pieris rapae*
Clouded Sulphur *Colias philodice*
Orange Sulphur *Colias eurytheme*
Cloudless Sulphur *Phoebis sennae*
Little Yellow *Eurema lisa*

GOSSAMER-WINGED *Lycaenidae*

Bronze Copper *Lycaena hyllus*
Eastern Tailed-Blue *Everes comyntas*

BRUSHFOOTS *Nymphalidae*

American Snout *Libytheana carinenta*
Great Spangled Fritillary *Speyeria cybele*
Pearl Crescent *Phyciodes tharos*
Question Mark *Polygonia interrogationis*
Eastern Comma *Polygonia comma*
Painted Lady *Vanessa cardui*
Common Buckeye *Junonia coenia*
Red-spotted Purple *Limenitis arthemis astyanax*
Viceroy *Limenitis archippus*
Hackberry Emperor *Asterocampa celtis*

SATYRS, WOOD NYMPHS & BROWNS, *Satyridae*

Northern Pearly-eye *Enodia anthedon*
Appalachian Brown *Satyrodes appalachia*
Gemmed Satyr *Cyllopsis gemma*
Little Wood-Satyr *Megisto cymela*

MONARCHS *Danaidae*

Monarch *Danaus plexippus*

SKIPPERS *Hesperiidae*

Silver-spotted Skipper *Epargyreus clarus*
Least Skipper *Ancyloxypha numitor*
Zabulon Skipper *Poanes zabulon*

DRAGONFLIES

AESHNIDAE - Darners

Common Green Darner *Anax junius*
Swamp Darner *Epiaeschna heros*
Cyrano Darner *Nasiaeschna pentacantha*

GOMPHIDAE - Clubtails

Flag-tailed Spinyleg *Dromogomphus spoliatus*

CORDULIIDAE – Emeralds

Prince Baskettail *Epitheca princeps*
Swift River Cruiser *Macromia illinoiensis*
Royal River Cruiser *Macromia taeniolata*
Mocha Emerald *Somatochlora linearis*

LIBELLULIDAE - Skimmers

Common Pondhawk *Erythemis simplicicollis*
Slaty Skimmer *Libellula incesta*
Widow Skimmer *Libellula luctuosa*
Twelve-spotted Skimmer *Libellula pulchella*
Great Blue Skimmer *Libellula vibrans*
Blue Dasher *Pachydiplax longipennis*
Wandering Glider *Pantala flavescens*
Eastern Amberwing *Perithemis tenera*
Common Whitetail *Plathemis lydia*
Blue-faced Meadowhawk *Sympetrum ambiguum*
Black Saddlebags *Tamea lacerata*

DAMSELSFLIES

COENAGRIONIDAE - Pond Damsels

Fragile Forktail *Ischnura posita*

Flag Pond Site Surveys

Survey Name: Southern Till Plain

Weather: P. Cloudy mid 70s

Location: Flag Pond

Hours: 5

Date: 12 May 2009

Observers: R. Day

BUTTERFLIES

- X Pipevine Swallowtail *Battus philenor*
- X Zebra Swallowtail *Eurytides marcellus*
- X Clouded Sulphur *Colias philodice*
- X Orange Sulphur *Colias eurytheme*
- X Pearl Crescent *Phyciodes tharos*
- X Monarch *Danaus plexippus*
- X Silver-spotted Skipper *Epargyreus clarus*
- X Zabulon Skipper *Poanes zabulon*

DRAGONFLIES

- X Common Pondhawk *Erythemis simplicicollis*
- X Blue Dasher *Pachydiplax longipennis*
- X Common Whitetail *Plathemis lydia*

NOTES

Flag Pond area had been flooded until a couple of days before. Couldn't access the area the week before. Surprisingly there were very little flying in numbers and species. Small biting gnats or fleas were everywhere. Maybe the flood had something to do with the number of species. Cooler than normal weather this spring.

Survey Name: Southern Till Plain

Weather: P. Cloudy low 80s

Location: Flag Pond South

Hours: 3.5

Date: 13 Jul 2009

Observers: R. Day

BUTTERFLIES

- X Eastern Tiger Swallowtail *Papilio glaucus*
- X Spicebush Swallowtail *Papilio troilus*
- X Cabbage White *Pieris rapae*
- X Orange Sulphur *Colias eurytheme*
- X Eastern Tailed-Blue *Everes comyntas*
- X Great Spangled Fritillary *Speyeria cybele*
- X Pearl Crescent *Phyciodes tharos*
- X Monarch *Danaus plexippus*
- X Silver-spotted Skipper *Epargyreus clarus*
- X Least Skipper *Ancyloxypha numitor*

DRAGONFLIES

- X Common Green Darner *Anax junius*
- X Prince Baskettail *Epitheca princeps*
- X Swift River Cruiser *Macromia illinoensis*
- X Mocha Emerald *Somatochlora linearis*
- X Common Pondhawk *Erythemis simplicicollis*
- X Slaty Skimmer *Libellula incesta*
- X Twelve-spotted Skimmer *Libellula pulchella*
- X Great Blue Skimmer *Libellula vibrans*
- X Blue Dasher *Pachydiplax longipennis*
- X Eastern Amberwing *Perithemis tenera*
- X Common Whitetail *Plathemis lydia*
- X Black Saddlebags *Tamea lacerata*

Flag Pond Site Surveys

Survey Name: Southern Till Plain

Weather: P. Cloudy low 80s

Location: Flag Pond

Hours: 4

Date: 21 Jul 2009

Observers: R. Day

BUTTERFLIES

- X Zebra Swallowtail *Eurytides marcellus*
- X Eastern Tiger Swallowtail *Papilio glaucus*
- X Spicebush Swallowtail *Papilio troilus*
- X Bronze Copper *Lycaena hyllus*
- X Eastern Comma *Polygonia comma*
- X Little Wood-Satyr *Megisto cymela*
- X Silver-spotted Skipper *Epargyreus clarus*
- X Least Skipper *Ancyloxypha numitor*

DRAGONFLIES

- X Common Green Darner *Anax junius*
- X Cyrano Darner *Nasiaeschna pentacantha*
- X Fragile Forktail *Ischnura posita*
- X Common Pondhawk *Erythemis simplicicollis*
- X Slaty Skimmer *Libellula incesta*
- X Widow Skimmer *Libellula luctuosa*
- X Great Blue Skimmer *Libellula vibrans*
- X Blue Dasher *Pachydiplax longipennis*
- X Common Whitetail *Plathemis lydia*

Survey Name: Southern Till Plain

Weather: P. Cloudy upper 80s

Location: Flag Pond S

Hours: 5.5

Date: 10 Aug 2009

Observers: R. Day

BUTTERFLIES

- X Zebra Swallowtail *Eurytides marcellus*
- X Eastern Tiger Swallowtail *Papilio glaucus*
- X Spicebush Swallowtail *Papilio troilus*
- X Cabbage White *Pieris rapae*
- X Orange Sulphur *Colias eurytheme*
- X Eastern Tailed-Blue *Everes comyntas*
- X American Snout *Libytheana carinenta*
- X Pearl Crescent *Phyciodes tharos*
- X Question Mark *Polygonia interrogationis*
- X Eastern Comma *Polygonia comma*
- X Common Buckeye *Junonia coenia*
- X Hackberry Emperor *Asterocampa celtis*
- X Northern Pearly-eye *Enodia anthedon*
- X Appalachian Brown *Satyroides appalachia*
- X Little Wood-Satyr *Megisto cymela*
- X Monarch *Danaus plexippus*
- X Silver-spotted Skipper *Epargyreus clarus*
- X Zabulon Skipper *Poanes zabulon*

DRAGONFLIES

- X Common Green Darner *Anax junius*
- X Swamp Darner *Epiaeschna heros*
- X Flag-tailed Spinyleg *Dromogomphus spoliatus*
- X Royal River Cruiser *Macromia taeniolata*
- X Common Pondhawk *Erythemis simplicicollis*
- X Slaty Skimmer *Libellula incesta*
- X Great Blue Skimmer *Libellula vibrans*
- X Blue Dasher *Pachydiplax longipennis*
- X Common Whitetail *Plathemis lydia*

Flag Pond Site Surveys

Survey Name: Southern Till Plain

Weather: P. Cloudy upper 80s

Location: Flag Pond

Hours: 5

Date: 26 Aug 2009

Observers: R. Day

BUTTERFLIES

- X Eastern Tiger Swallowtail *Papilio glaucus*
- X Spicebush Swallowtail *Papilio troilus*
- X Cabbage White *Pieris rapae*
- X Cloudless Sulphur *Phoebis sennae*
- X Little Yellow *Eurema lisa*
- X Pearl Crescent *Phyciodes tharos*
- X Common Buckeye *Junonia coenia*
- X Red-spotted Purple *Limenitis arthemis astyanax*
- X Viceroy *Limenitis archippus*
- X Appalachian Brown *Satyroides appalachia*
- X Monarch *Danaus plexippus*
- X Silver-spotted Skipper *Epargyreus clarus*

DRAGONFLIES

- X Common Green Darner *Anax junius*
- X Mocha Emerald *Somatochlora linearis*
- X Common Pondhawk *Erythemis simplicicollis*
- X Slaty Skimmer *Libellula incesta*
- X Blue Dasher *Pachydiplax longipennis*
- X Common Whitetail *Plathemis lydia*
- X Blue-faced Meadowhawk *Sympetrum ambiguum*

Survey Name: Southern Till Plain

Weather: P. Cloudy low 80s

Location: Flag Pond

Hours: 6

Date: 3 Sep 2009

Observers: R. Day

BUTTERFLIES

- X Spicebush Swallowtail *Papilio troilus*
- X Cabbage White *Pieris rapae*
- X Orange Sulphur *Colias eurytheme*
- X Cloudless Sulphur *Phoebis sennae*
- X Eastern Tailed-Blue *Everes comyntas*
- X Question Mark *Polygonia interrogationis*
- X Painted Lady *Vanessa cardui*
- X Red-spotted Purple *Limenitis arthemis astyanax*
- X Hackberry Emperor *Asterocampa celtis*
- X Monarch *Danaus plexippus*

DRAGONFLIES

- X Common Green Darner *Anax junius*
- X Prince Baskettail *Epitheca princeps*
- X Mocha Emerald *Somatochlora linearis*
- X Common Pondhawk *Erythemis simplicicollis*
- X Slaty Skimmer *Libellula incesta*
- X Blue Dasher *Pachydiplax longipennis*
- X Wandering Glider *Pantala flavescens*
- X Common Whitetail *Plathemis lydia*
- X Black Saddlebags *Tramea lacerata*

Flag Pond Site Surveys

Survey Name: Southern Till Plain

Weather: P. Cloudy low 80s

Location: Flag Pond

Hours: 8

Date: 16 Sep 2009

Observers: R. Day

BUTTERFLIES

- X Cabbage White *Pieris rapae*
- X Orange Sulphur *Colias eurytheme*
- X Cloudless Sulphur *Phoebis sennae*
- X Eastern Tailed-Blue *Everes comyntas*
- X Question Mark *Polygonia interrogationis*
- X Viceroy *Limenitis archippus*
- X Appalachian Brown *Satyroides appalachia*
- X Gemmed Satyr *Cyllopsis gemma*
- X Silver-spotted Skipper *Epargyreus clarus*

DRAGONFLIES

- X Common Green Darner *Anax junius*
- X Great Blue Skimmer *Libellula vibrans*
- X Blue Dasher *Pachydiplax longipennis*
- X Common Whitetail *Plathemis lydia*

Insect Survey Locations
Flag Pond Clay County
N38° 42' 54.3" W88° 18' 51.3"
N38° 43' 01.9" W88° 18' 52.5"



Martin T. Snyder Nature Preserve

Checklist of Butterflies, Skippers, Dragonflies and Damselflies

BUTTERFLIES

SWALLOWTAILS *Papilionidae*

Zebra Swallowtail *Eurytides marcellus*
Black Swallowtail *Papilio polyxenes*
Eastern Tiger Swallowtail *Papilio glaucus*
Spicebush Swallowtail *Papilio troilus*

WHITES & SULPHURS *Pieridae*

Cabbage White *Pieris rapae*
Clouded Sulphur *Colias philodice*
Orange Sulphur *Colias eurytheme*
Cloudless Sulphur *Phoebis sennae*
Little Yellow *Eurema lisa*

GOSSAMER-WINGED *Lycaenidae*

Eastern Tailed-Blue *Everes comyntas*
Spring Azure *Celastrina ladon*

BRUSHFOOTS *Nymphalidae*

American Snout *Libytheana carinenta*
Great Spangled Fritillary *Speyeria cybele*
Silvery Checkerspot *Chlosyne nycteis*
Pearl Crescent *Phyciodes tharos*
Question Mark *Polygonia interrogationis*
Eastern Comma *Polygonia comma*
Red Admiral *Vanessa atalanta*
Common Buckeye *Junonia coenia*
Red-spotted Purple *Limenitis arthemis astyanax*
Viceroy *Limenitis archippus*
Hackberry Emperor *Asterocampa celtis*

SATYRS, WOOD NYMPHS & BROWNS, *Satyridae*

Northern Pearly-eye *Enodia anthedon*
Appalachian Brown *Satyroides appalachia*
Gemmed Satyr *Cyllopsis gemma*
Little Wood-Satyr *Megisto cymela*

MONARCHS *Danaidae*

Monarch *Danaus plexippus*

SKIPPERS *Hesperiidae*

Silver-spotted Skipper *Epargyreus clarus*
Wild Indigo Duskywing *Erynnis baptisiae*
Least Skipper *Ancyloxypha numitor*
Tawny-edged Skipper *Polites themistocles*
Sachem *Atalopedes campestris*
Zabulon Skipper *Poanes zabulon*
Dun Skipper *Euphyes vestris*

DRAGONFLIES

AESHNIDAE - Darners

Common Green Darner *Anax junius*
Springtime Darner *Basiaeschna janata*
Cyrano Darner *Nasiaeschna pentacantha*

GOMPHIDAE - Clubtails

Common Sanddragon *Progomphus obscurus*

CORDULIIDAE – Emeralds

Stream Cruiser *Didymops transversa*
Prince Baskettail *Epitheca princeps*
Slender Baskettail *Epitheca costalis*
Swift River Cruiser *Macromia illinoensis*
Royal River Cruiser *Macromia taeniolata*
Mocha Emerald *Somatochlora linearis*

LIBELLULIDAE - Skimmers

Common Pondhawk *Erythemis simplicicollis*
Slaty Skimmer *Libellula incesta*
Widow Skimmer *Libellula luctuosa*
Twelve-spotted Skimmer *Libellula pulchella*
Great Blue Skimmer *Libellula vibrans*
Blue Dasher *Pachydiplax longipennis*
Wandering Glider *Pantala flavescens*
Eastern Amberwing *Perithemis tenera*
Common Whitetail *Plathemis lydia*
Blue-faced Meadowhawk *Sympetrum ambiguum*
Black Saddlebags *Tramea lacerata*

DAMSELFLIES

CALOPTERYGIDAE – Broad-winged Damselflies

Ebony Jewelwing *Calopteryx maculata*

COENAGRIONIDAE - Pond Damselflies

Blue-tipped Dancer *Argia tibialis*

Martin T. Snyder Nature Preserve Site Surveys

Survey Name: Southern Till Plain

Weather: Sunny upper 70s

Location: Martin T. Snyder

Hours: 5.5

Date: 5 May 2009

Observers: R. Day

BUTTERFLIES

- X Zebra Swallowtail *Eurytides marcellus*
- X Eastern Tiger Swallowtail *Papilio glaucus*
- X Cabbage White *Pieris rapae*
- X Orange Sulphur *Colias eurytheme*
- X Eastern Tailed-Blue *Everes comyntas*
- X Spring Azure *Celastrina ladon*
- X Pearl Crescent *Phyciodes tharos*
- X Question Mark *Polygonia interrogationis*
- X Red Admiral *Vanessa atalanta*
- X Gemmed Satyr *Cyllopsis gemma*
- X Wild Indigo Duskywing *Erynnis baptisiae*
- X Least Skipper *Ancyloxypha numitor*

DRAGONFLIES

- X Springtime Darner *Basiaeschna janata*
- X Stream Cruiser *Didymops transversa*
- X Slender Baskettail *Epiptera costalis*
- X Common Whitetail *Plathemis lydia*

Survey Name: Southern Till Plain

Weather: P. Cloudy low 80s

Location: Martin T. Snyder

Hours: 6

Date: 13 Jul 2009

Observers: R. Day

BUTTERFLIES

- X Zebra Swallowtail *Eurytides marcellus*
- X Eastern Tiger Swallowtail *Papilio glaucus*
- X Cabbage White *Pieris rapae*
- X Orange Sulphur *Colias eurytheme*
- X Eastern Tailed-Blue *Everes comyntas*
- X Great Spangled Fritillary *Speyeria cybele*
- X Pearl Crescent *Phyciodes tharos*
- X Question Mark *Polygonia interrogationis*
- X Common Buckeye *Junonia coenia*
- X Red-spotted Purple *Limenitis arthemis astyanax*
- X Appalachian Brown *Satyrodes appalachia*
- X Little Wood-Satyr *Megisto cymela*
- X Silver-spotted Skipper *Epargyreus clarus*
- X Least Skipper *Ancyloxypha numitor*
- X Tawny-edged Skipper *Polites themistocles*

DRAGONFLIES

- X Common Green Darner *Anax junius*
- X Prince Baskettail *Epiptera princeps*
- X Royal River Cruiser *Macromia taeniolata*
- X Mocha Emerald *Somatochlora linearis*
- X Common Pondhawk *Erythemis simplicicollis*
- X Widow Skimmer *Libellula luctuosa*
- X Twelve-spotted Skimmer *Libellula pulchella*
- X Great Blue Skimmer *Libellula vibrans*
- X Blue Dasher *Pachydiplax longipennis*
- X Common Whitetail *Plathemis lydia*
- X Black Saddlebags *Tameia lacerata*

Martin T. Snyder Nature Preserve Site Surveys

Survey Name: Southern Till Plain

Weather: P. Cloudy low 80s

Location: Martin T. Snyder

Hours: 6

Date: 21 Jul 2009

Observers: R. Day

BUTTERFLIES

- X Eastern Tiger Swallowtail *Papilio glaucus*
- X Spicebush Swallowtail *Papilio troilus*
- X Cabbage White *Pieris rapae*
- X Orange Sulphur *Colias eurytheme*
- X Cloudless Sulphur *Phoebis sennae*
- X Eastern Tailed-Blue *Everes comyntas*
- X Great Spangled Fritillary *Speyeria cybele*
- X Pearl Crescent *Phyciodes tharos*
- X Question Mark *Polygonia interrogationis*
- X Eastern Comma *Polygonia comma*
- X Common Buckeye *Junonia coenia*
- X Red-spotted Purple *Limenitis arthemis astyanax*
- X Appalachian Brown *Satyrodes appalachia*
- X Little Wood-Satyr *Megisto cymela*
- X Monarch *Danaus plexippus*
- X Silver-spotted Skipper *Epargyreus clarus*
- X Horace's Duskywing *Erynnis horatius*
- X Least Skipper *Ancyloxypha numitor*

DRAGONFLIES

- X Common Green Darner *Anax junius*
- X Cyrano Darner *Nasiaeschna pentacantha*
- X Common Sanddragon *Progomphus obscurus*
- X Royal River Cruiser *Macromia taeniolata*
- X Mocha Emerald *Somatochlora linearis*
- X Common Pondhawk *Erythemis simplicicollis*
- X Slaty Skimmer *Libellula incesta*
- X Widow Skimmer *Libellula luctuosa*
- X Great Blue Skimmer *Libellula vibrans*
- X Blue Dasher *Pachydiplax longipennis*
- X Eastern Amberwing *Perithemis tenera*
- X Common Whitetail *Plathemis lydia*
- X Ebony Jewelwing *Calopteryx maculata*
- X Blue-tipped Dancer *Argia tibialis*

Survey Name: Southern Till Plain

Weather: P. Cloudy upper 80s

Location: Martin T. Snyder

Hours: 4.5

Date: 26 Aug 2009

Observers: R. Day

BUTTERFLIES

- X Spicebush Swallowtail *Papilio troilus*
- X Cabbage White *Pieris rapae*
- X Cloudless Sulphur *Phoebis sennae*
- X Little Yellow *Eurema lisa*
- X Eastern Tailed-Blue *Everes comyntas*
- X American Snout *Libytheana carinenta*
- X Great Spangled Fritillary *Speyeria cybele*
- X Silvery Checkerspot *Chlosyne nycteis*
- X Pearl Crescent *Phyciodes tharos*
- X Question Mark *Polygonia interrogationis*
- X Common Buckeye *Junonia coenia*
- X Red-spotted Purple *Limenitis arthemis astyanax*
- X Viceroy *Limenitis archippus*
- X Hackberry Emperor *Asterocampa celtis*
- X Appalachian Brown *Satyrodes appalachia*
- X Monarch *Danaus plexippus*
- X Silver-spotted Skipper *Epargyreus clarus*
- X Zabulon Skipper *Poanes zabulon*

DRAGONFLIES

- X Swift River Cruiser *Macromia illinoensis*
- X Mocha Emerald *Somatochlora linearis*
- X Common Pondhawk *Erythemis simplicicollis*
- X Widow Skimmer *Libellula luctuosa*
- X Blue Dasher *Pachydiplax longipennis*
- X Common Whitetail *Plathemis lydia*
- X Blue-faced Meadowhawk *Sympetrum ambiguum*
- X Ebony Jewelwing *Calopteryx maculata*

Martin T. Snyder Nature Preserve Site Surveys

Survey Name: Southern Till Plain

Weather: P. Cloudy low 80s

Location: Martin T. Snyder

Hours: 6

Date: 8 Sep 2009

Observers: R. Day

BUTTERFLIES

- X Spicebush Swallowtail *Papilio troilus*
- X Cabbage White *Pieris rapae*
- X Clouded Sulphur *Colias philodice*
- X Cloudless Sulphur *Phoebis sennae*
- X Eastern Tailed-Blue *Everes comyntas*
- X Great Spangled Fritillary *Speyeria cybele*
- X Pearl Crescent *Phyciodes tharos*
- X Red-spotted Purple *Limenitis arthemis astyanax*
- X Viceroy *Limenitis archippus*
- X Hackberry Emperor *Asterocampa celtis*
- X Northern Pearly-eye *Enodia anthedon*
- X Appalachian Brown *Satyroides appalachia*
- X Monarch *Danaus plexippus*
- X Silver-spotted Skipper *Epargyreus clarus*
- X Sachem *Atalopedes campestris*
- X Dun Skipper *Euphyes vestris*

DRAGONFLIES

- X Common Green Darner *Anax junius*
- X Mocha Emerald *Somatochlora linearis*
- X Common Pondhawk *Erythemis simplicicollis*
- X Common Whitetail *Plathemis lydia*

Survey Name: Southern Till Plain

Weather: P. Cloudy upper 70s

Location: Martin T. Snyder

Hours: 6

Date: 27 Sep 2009

Observers: R. Day

BUTTERFLIES

- X Spicebush Swallowtail *Papilio troilus*
- X Cabbage White *Pieris rapae*
- X Orange Sulphur *Colias eurytheme*
- X Cloudless Sulphur *Phoebis sennae*
- X Eastern Tailed-Blue *Everes comyntas*
- X Question Mark *Polygonia interrogationis*
- X Common Buckeye *Junonia coenia*
- X Red-spotted Purple *Limenitis arthemis astyanax*
- X Viceroy *Limenitis archippus*
- X Northern Pearly-eye *Enodia anthedon*
- X Appalachian Brown *Satyroides appalachia*
- X Monarch *Danaus plexippus*
- X Silver-spotted Skipper *Epargyreus clarus*
- X Sachem *Atalopedes campestris*

DRAGONFLIES

- X Common Green Darner *Anax junius*
- X Common Pondhawk *Erythemis simplicicollis*
- X Widow Skimmer *Libellula luctuosa*
- X Blue-faced Meadowhawk *Sympetrum ambiguum*

Martin T. Snyder Nature Preserve Site Surveys

Survey Name: Southern Till Plain

Weather: P. Cloudy low 70s

Location: Martin T. Snyder

Hours: 5.5

Date: 4 Oct 2009

Observers: R. Day

BUTTERFLIES

- X Black Swallowtail *Papilio polyxenes*
- X Cabbage White *Pieris rapae*
- X Orange Sulphur *Colias eurytheme*
- X Cloudless Sulphur *Phoebis sennae*
- X Eastern Tailed-Blue *Everes comyntas*
- X Pearl Crescent *Phyciodes tharos*
- X Question Mark *Polygonia interrogationis*
- X Common Buckeye *Junonia coenia*
- X Red-spotted Purple *Limenitis arthemis astyanax*
- X Northern Pearly-eye *Enodia anthedon*
- X Appalachian Brown *Satyroides appalachia*
- X Monarch *Danaus plexippus*
- X Silver-spotted Skipper *Epargyreus clarus*
- X Sachem *Atalopedes campestris*

DRAGONFLIES

- X Common Green Darner *Anax junius*
- X Widow Skimmer *Libellula luctuosa*
- X Wandering Glider *Pantala flavescens*
- X Common Whitetail *Plathemis lydia*
- X Blue-faced Meadowhawk *Sympetrum ambiguum*
- X Black Saddlebags *Tamea lacerata*

Insect Survey Location
Martin T. Snyder Nature Preserve
Clay County
N38° 38' 18.6" W88° 31' 35.6"



Miller Shrub Swamp Nature Preserve

Checklist of Butterflies, Skippers, Dragonflies and Damselflies

BUTTERFLIES

SWALLOWTAILS *Papilionidae*

Pipevine Swallowtail *Battus philenor*
Eastern Tiger Swallowtail *Papilio glaucus*
Spicebush Swallowtail *Papilio troilus*

WHITES & SULPHURS *Pieridae*

Cabbage White *Pieris rapae*
Orange Sulphur *Colias eurytheme*
Southern Dogface *Colias cesonia*
Cloudless Sulphur *Phoebis sennae*

GOSSAMER-WINGED *Lycaenidae*

Gray Hairstreak *Strymon melinus*
Eastern Tailed-Blue *Everes comyntas*
'Summer' Spring Azure *Celastrina ladon neglecta*

BRUSHFOOTS *Nymphalidae*

American Snout *Libytheana carinenta*
Great Spangled Fritillary *Speyeria cybele*
Pearl Crescent *Phyciodes tharos*
Question Mark *Polygonia interrogationis*
Eastern Comma *Polygonia comma*
Painted Lady *Vanessa cardui*
Red Admiral *Vanessa atalanta*
Common Buckeye *Junonia coenia*
Red-spotted Purple *Limenitis arthemis astyanax*
Viceroy *Limenitis archippus*

SATYRS, WOOD NYMPHS & BROWNS, *Satyridae*

Northern Pearly-eye *Enodia anthedon*
Appalachian Brown *Satyroides appalachia*
Gemmed Satyr *Cyllopsis gemma*
Little Wood-Satyr *Megisto cymela*
Common Wood-Nymph *Cercyonis pegala*

MONARCHS *Danaidae*

Monarch *Danaus plexippus*

SKIPPERS *Hesperiidae*

Silver-spotted Skipper *Epargyreus clarus*
Least Skipper *Ancyloxypha numitor*
Fiery Skipper *Hylephila phyleus*
Sachem *Atalopedes campestris*
Zabulon Skipper *Poanes zabulon*
Dun Skipper *Euphyes vestris*

DRAGONFLIES

AESHNIDAE - Darners

Common Green Darner *Anax junius*

CORDULEGASTRIDAE - Spiketails

Arrowhead Spiketail *Cordulegaster obliqua*

CORDULIIDAE – Emeralds

Prince Baskettail *Epiptera princeps*
Swift River Cruiser *Macromia illinoensis*

LIBELLULIDAE - Skimmers

Common Pondhawk *Erythemis simplicicollis*
Spangled Skimmer *Libellula cyanea*
Slaty Skimmer *Libellula incesta*
Widow Skimmer *Libellula luctuosa*
Twelve-spotted Skimmer *Libellula pulchella*
Great Blue Skimmer *Libellula vibrans*
Blue Dasher *Pachydiplax longipennis*
Wandering Glider *Pantala flavescens*
Common Whitetail *Plathemis lydia*
Blue-faced Meadowhawk *Sympetrum ambiguum*
Black Saddlebags *Tramea lacerata*

DAMSELFLIES

CALOPTERYGIDAE – Broad-winged Damselflies

Ebony Jewelwing *Calopteryx maculata*

LESTIDAE - Spreadwings

Sweetflag Spreadwing *Lestes forcipatus*
Slender Spreadwing *Lestes rectangularis*

COENAGRIONIDAE - Pond Damselflies

Eastern Forktail *Ischnura verticalis*

Miller Shrub Swamp Nature Preserve Site Surveys

Survey Name: Southern Till Plain

Weather: P. Cloudy low 80s

Location: Miller Shrub Swamp

Hours: 6

Date: 20 May 2009

Observers: R. Day

BUTTERFLIES

- X Pipevine Swallowtail *Battus philenor*
- X Spicebush Swallowtail *Papilio troilus*
- X Cabbage White *Pieris rapae*
- X Orange Sulphur *Colias eurytheme*
- X Cloudless Sulphur *Phoebis sennae*
- X Eastern Tailed-Blue *Everes comyntas*
- X Question Mark *Polygonia interrogationis*
- X Eastern Comma *Polygonia comma*
- X Red Admiral *Vanessa atalanta*
- X Appalachian Brown *Satyroides appalachia*
- X Little Wood-Satyr *Megisto cymela*
- X Monarch *Danaus plexippus*
- X Silver-spotted Skipper *Epargyreus clarus*
- X Least Skipper *Ancyloxypha numitor*

DRAGONFLIES

- X Common Green Darner *Anax junius*
- X Common Pondhawk *Erythemis simplicicollis*
- X Spangled Skimmer *Libellula cyanea*
- X Widow Skimmer *Libellula luctuosa*
- X Twelve-spotted Skimmer *Libellula pulchella*
- X Blue Dasher *Pachydiplax longipennis*
- X Black Saddlebags *Tamea lacerata*

Survey Name: Southern Till Plain

Weather: P. Cloudy low 80s

Location: Miller Shrub Swamp

Hours: 5.5

Date: 11 Jun 2009

Observers: R. Day

BUTTERFLIES

- X Pipevine Swallowtail *Battus philenor*
- X Spicebush Swallowtail *Papilio troilus*
- X Cabbage White *Pieris rapae*
- X Orange Sulphur *Colias eurytheme*
- X Gray Hairstreak *Strymon melinus*
- X Eastern Tailed-Blue *Everes comyntas*
- X American Snout *Libytheana carinenta*
- X Great Spangled Fritillary *Speyeria cybele*
- X Question Mark *Polygonia interrogationis*
- X Eastern Comma *Polygonia comma*
- X Red Admiral *Vanessa atalanta*
- X Appalachian Brown *Satyroides appalachia*
- X Little Wood-Satyr *Megisto cymela*
- X Monarch *Danaus plexippus*
- X Silver-spotted Skipper *Epargyreus clarus*
- X Least Skipper *Ancyloxypha numitor*

DRAGONFLIES

- X Common Green Darner *Anax junius*
- X Common Pondhawk *Erythemis simplicicollis*
- X Spangled Skimmer *Libellula cyanea*
- X Slaty Skimmer *Libellula incesta*
- X Widow Skimmer *Libellula luctuosa*
- X Twelve-spotted Skimmer *Libellula pulchella*
- X Blue Dasher *Pachydiplax longipennis*
- X Black Saddlebags *Tamea lacerata*

Miller Shrub Swamp Nature Preserve Site Surveys

Survey Name: Southern Till Plain

Weather: P. Cloudy low 80s

Location: Miller Shrub Swamp

Hours: 6.5

Date: 10 Jul 2009

Observers: R. Day

BUTTERFLIES

- X Pipevine Swallowtail *Battus philenor*
- X Eastern Tiger Swallowtail *Papilio glaucus*
- X Spicebush Swallowtail *Papilio troilus*
- X Cabbage White *Pieris rapae*
- X Orange Sulphur *Colias eurytheme*
- X Eastern Tailed-Blue *Everes comyntas*
- X 'Summer' Spring Azure *Celastrina ladon neglecta*
- X Great Spangled Fritillary *Speyeria cybele*
- X Pearl Crescent *Phyciodes tharos*
- X Question Mark *Polygonia interrogationis*
- X Common Buckeye *Junonia coenia*
- X Appalachian Brown *Satyroides appalachia*
- X Little Wood-Satyr *Megisto cymela*
- X Common Wood-Nymph *Cercyonis pegala*
- X Monarch *Danaus plexippus*
- X Silver-spotted Skipper *Epargyreus clarus*
- X Least Skipper *Ancyloxypha numitor*
- X Sachem *Atalopedes campestris*

DRAGONFLIES

- X Common Green Darner *Anax junius*
- X Arrowhead Spiketail *Cordulegaster obliqua*
- X Prince Baskettail *Epitheca princeps*
- X Swift River Cruiser *Macromia illinoensis*
- X Common Pondhawk *Erythemis simplicicollis*
- X Spangled Skimmer *Libellula cyanea*
- X Slaty Skimmer *Libellula incesta*
- X Widow Skimmer *Libellula luctuosa*
- X Twelve-spotted Skimmer *Libellula pulchella*
- X Blue Dasher *Pachydiplax longipennis*
- X Common Whitetail *Plathemis lydia*
- X Black Saddlebags *Tamea lacerata*
- X Ebony Jewelwing *Calopteryx maculata*
- X Sweetflag Spreadwing *Lestes forcipatus*
- X Eastern Forktail *Ischnura verticalis*

Survey Name: Southern Till Plain

Weather: P. Cloudy low 80s

Location: Miller Shrub Swamp

Hours: 5

Date: 23 Jul 2009

Observers: R. Day

BUTTERFLIES

- X Pipevine Swallowtail *Battus philenor*
- X Eastern Tiger Swallowtail *Papilio glaucus*
- X Spicebush Swallowtail *Papilio troilus*
- X Cabbage White *Pieris rapae*
- X Orange Sulphur *Colias eurytheme*
- X Eastern Tailed-Blue *Everes comyntas*
- X Great Spangled Fritillary *Speyeria cybele*
- X Pearl Crescent *Phyciodes tharos*
- X Question Mark *Polygonia interrogationis*
- X Common Buckeye *Junonia coenia*
- X Appalachian Brown *Satyroides appalachia*
- X Little Wood-Satyr *Megisto cymela*
- X Monarch *Danaus plexippus*
- X Silver-spotted Skipper *Epargyreus clarus*
- X Least Skipper *Ancyloxypha numitor*
- X Sachem *Atalopedes campestris*

DRAGONFLIES

- X Common Green Darner *Anax junius*
- X Prince Baskettail *Epitheca princeps*
- X Common Pondhawk *Erythemis simplicicollis*
- X Spangled Skimmer *Libellula cyanea*
- X Slaty Skimmer *Libellula incesta*
- X Widow Skimmer *Libellula luctuosa*
- X Twelve-spotted Skimmer *Libellula pulchella*
- X Blue Dasher *Pachydiplax longipennis*
- X Common Whitetail *Plathemis lydia*
- X Black Saddlebags *Tamea lacerata*
- X Ebony Jewelwing *Calopteryx maculata*
- X Eastern Forktail *Ischnura verticalis*

Miller Shrub Swamp Nature Preserve Site Surveys

Survey Name: Southern Till Plain

Weather: P. Cloudy low 80s

Location: Miller Shrub Swamp

Hours: 6.5

Date: 6 Aug 2009

Observers: R. Day

BUTTERFLIES

- X Pipevine Swallowtail *Battus philenor*
- X Spicebush Swallowtail *Papilio troilus*
- X Orange Sulphur *Colias eurytheme*
- X Cloudless Sulphur *Phoebis sennae*
- X Eastern Tailed-Blue *Everes comyntas*
- X American Snout *Libytheana carinenta*
- X Pearl Crescent *Phyciodes tharos*
- X Question Mark *Polygonia interrogationis*
- X Eastern Comma *Polygonia comma*
- X Red-spotted Purple *Limenitis arthemis astyanax*
- X Appalachian Brown *Satyroides appalachia*
- X Little Wood-Satyr *Megisto cymela*
- X Monarch *Danaus plexippus*
- X Silver-spotted Skipper *Epargyreus clarus*
- X Least Skipper *Ancyloxypha numitor*
- X Zabulon Skipper *Poanes zabulon*

DRAGONFLIES

- X Common Green Darner *Anax junius*
- X Common Pondhawk *Erythemis simplicicollis*
- X Slaty Skimmer *Libellula incesta*
- X Widow Skimmer *Libellula luctuosa*
- X Twelve-spotted Skimmer *Libellula pulchella*
- X Great Blue Skimmer *Libellula vibrans*
- X Blue Dasher *Pachydiplax longipennis*
- X Common Whitetail *Plathemis lydia*

Survey Name: Southern Till Plain

Weather: Sunny low 70's

Location: Miller Shrub Swamp

Hours: 6

Date: Sep 10, 2008

BUTTERFLIES

- X Pipevine Swallowtail *Battus philenor*
- X Spicebush Swallowtail *Papilio troilus*
- X Cabbage White *Pieris rapae*
- X Orange Sulphur *Colias eurytheme*
- X Southern Dogface *Colias cesonia*
- X Cloudless Sulphur *Phoebis sennae*
- X Eastern Tailed-Blue *Everes comyntas*
- X American Snout *Libytheana carinenta*
- X Great Spangled Fritillary *Speyeria cybele*
- X Pearl Crescent *Phyciodes tharos*
- X Painted Lady *Vanessa cardui*
- X Common Buckeye *Junonia coenia*
- X Red-spotted Purple *Limenitis arthemis astyanax*
- X Viceroy *Limenitis archippus*
- X Northern Pearly-eye *Enodia anthedon*
- X Appalachian Brown *Satyroides appalachia*
- X Monarch *Danaus plexippus*
- X Silver-spotted Skipper *Epargyreus clarus*
- X Least Skipper *Ancyloxypha numitor*
- X Fiery Skipper *Hylephila phyleus*
- X Dun Skipper *Euphyes vestris*

DRAGONFLIES

- X Common Green Darner *Anax junius*
- X Blue-faced Meadowhawk *Sympetrum ambiguum*
- X Black Saddlebags *Tramea lacerata*

Miller Shrub Swamp Nature Preserve Site Surveys

Survey Name: Southern Till Plain

Weather: P. Cloudy low 80s

Location: Miller Shrub Swamp

Hours: 5.5

Date: 15 Sep 2009

Observers: R. Day

BUTTERFLIES

- X Pipevine Swallowtail *Battus philenor*
- X Cabbage White *Pieris rapae*
- X Orange Sulphur *Colias eurytheme*
- X Cloudless Sulphur *Phoebis sennae*
- X Eastern Tailed-Blue *Everes comyntas*
- X Great Spangled Fritillary *Speyeria cybele*
- X Question Mark *Polygonia interrogationis*
- X Common Buckeye *Junonia coenia*
- X Red-spotted Purple *Limenitis arthemis astyanax*
- X Viceroy *Limenitis archippus*
- X Northern Pearly-eye *Enodia anthedon*
- X Appalachian Brown *Satyroides appalachia*
- X Gemmed Satyr *Cyllopsis gemma*
- X Monarch *Danaus plexippus*
- X Silver-spotted Skipper *Epargyreus clarus*

DRAGONFLIES

- X Common Green Darner *Anax junius*
- X Common Pondhawk *Erythemis simplicicollis*
- X Slaty Skimmer *Libellula incesta*
- X Widow Skimmer *Libellula luctuosa*
- X Twelve-spotted Skimmer *Libellula pulchella*
- X Wandering Glider *Pantala flavescens*
- X Common Whitetail *Plathemis lydia*
- X Blue-faced Meadowhawk *Sympetrum ambiguum*
- X Slender Spreadwing *Lestes rectangularis*

Insect Survey Location
Miller Shrub Swamp Nature Preserve Marion County
N38° 29' 16.6" W88° 42' 53.7"



Red Hills State Park Checklist of Butterflies, Skippers and Dragonflies

BUTTERFLIES

SWALLOWTAILS *Papilionidae*

Pipevine Swallowtail *Battus philenor*
Eastern Tiger Swallowtail *Papilio glaucus*
Spicebush Swallowtail *Papilio troilus*

WHITES & SULPHURS *Pieridae*

Checkered White *Pontia protodice*
Cabbage White *Pieris rapae*
Clouded Sulphur *Colias philodice*
Orange Sulphur *Colias eurytheme*
Cloudless Sulphur *Phoebis sennae*
Little Yellow *Eurema lisa*

GOSSAMER-WINGED *Lycaenidae*

Gray Hairstreak *Strymon melinus*
Eastern Tailed-Blue *Everes comyntas*

BRUSHFOOTS *Nymphalidae*

American Snout *Libytheana carinenta*
Great Spangled Fritillary *Speyeria cybele*
Silvery Checkerspot *Chlosyne nycteis*
Pearl Crescent *Phyciodes tharos*
Question Mark *Polygonia interrogationis*
Eastern Comma *Polygonia comma*
Mourning Cloak *Nymphalis antiopa*
Painted Lady *Vanessa cardui*
Red Admiral *Vanessa atalanta*
Common Buckeye *Junonia coenia*
Red-spotted Purple *Limenitis arthemis astyanax*
Viceroy *Limenitis archippus*
Tawny Emperor *Asterocampa clyton*

SATYRS, WOOD NYMPHS & BROWNS, *Satyridae*

Gemmed Satyr *Cyllopsis gemma*

MONARCHS *Danaidae*

Monarch *Danaus plexippus*

SKIPPERS *Hesperiidae*

Silver-spotted Skipper *Epargyreus clarus*
Wild Indigo Duskywing *Erynnis baptisiae*
Common Sootywing *Pholisora catullus*
Least Skipper *Ancyloxypha numitor*
Fiery Skipper *Hylephila phyleus*
Peck's Skipper *Polites peckius*
Sachem *Atalopedes campestris*
Zabulon Skipper *Poanes zabulon*
Dun Skipper *Euphyes vestris*

DRAGONFLIES

AESHNIDAE - Darners

Common Green Darner *Anax junius*
Swamp Darner *Epiaeschna heros*

GOMPHIDAE - Clubtails

Plains Clubtail *Gomphus externus*

CORDULIIDAE – Emeralds

Prince Baskettail *Epitheca princeps*
Slender Baskettail *Epitheca costalis*
Mocha Emerald *Somatochlora linearis*

LIBELLULIDAE - Skimmers

Calico Pennant *Celithemis elisa*
Halloween Pennant *Celithemis eponina*
Common Pondhawk *Erythemis simplicicollis*
Spangled Skimmer *Libellula cyanea*
Slaty Skimmer *Libellula incesta*
Widow Skimmer *Libellula luctuosa*
Twelve-spotted Skimmer *Libellula pulchella*
Blue Dasher *Pachydiplax longipennis*
Wandering Glider *Pantala flavescens*
Eastern Amberwing *Perithemis tenera*
Common Whitetail *Plathemis lydia*
Blue-faced Meadowhawk *Sympetrum ambiguum*
Black Saddlebags *Tramea lacerata*

Red Hills State Park Site Surveys

Survey Name: Southern Till Plain

Weather: Sunny mid 80s

Location: Red Hills State Park

Hours: 8

Date: 18 Sep 2008

BUTTERFLIES

- X Eastern Tiger Swallowtail *Papilio glaucus*
- X Cabbage White *Pieris rapae*
- X Orange Sulphur *Colias eurytheme*
- X Cloudless Sulphur *Phoebis sennae*
- X Gray Hairstreak *Strymon melinus*
- X Eastern Tailed-Blue *Everes comyntas*
- X Pearl Crescent *Phyciodes tharos*
- X Painted Lady *Vanessa cardui*
- X Common Buckeye *Junonia coenia*
- X Monarch *Danaus plexippus*
- X Silver-spotted Skipper *Epargyreus clarus*

DRAGONFLIES

- X Common Green Darner *Anax junius*
- X Halloween Pennant *Celithemis eponina*
- X Common Pondhawk *Erythemis simplicicollis*
- X Widow Skimmer *Libellula luctuosa*
- X Twelve-spotted Skimmer *Libellula pulchella*
- X Blue Dasher *Pachydiplax longipennis*
- X Eastern Amberwing *Perithemis tenera*
- X Common Whitetail *Plathemis lydia*

Survey Name: Southern Till Plain

Weather: P. Cloudy mid 70s

Location: Red Hills State Park

Hours: 4

Date: 12 May 2009

Observers: R. Day

BUTTERFLIES

- X Pipevine Swallowtail *Battus philenor*
- X Spicebush Swallowtail *Papilio troilus*
- X Orange Sulphur *Colias eurytheme*
- X Pearl Crescent *Phyciodes tharos*
- X Silver-spotted Skipper *Epargyreus clarus*
- X Zabulon Skipper *Poanes zabulon*

DRAGONFLIES

- X Common Green Darner *Anax junius*
- X Slender Baskettail *Epitheca costalis*
- X Common Pondhawk *Erythemis simplicicollis*
- X Common Whitetail *Plathemis lydia*

NOTES

Very few species flying in any habitat. It has been a cool wet spring.

Red Hills State Park Site Surveys

Survey Name: Southern Till Plain

Weather: P. Cloudy low 80s

Location: Red Hills State Park

Hours: 6.5

Date: 22 May 2009

Observers: R. Day

BUTTERFLIES

- X Pipevine Swallowtail *Battus philenor*
- X Cabbage White *Pieris rapae*
- X Orange Sulphur *Colias eurytheme*
- X Eastern Tailed-Blue *Everes comyntas*
- X Silver-spotted Skipper *Epargyreus clarus*
- X Peck's Skipper *Polites peckius*
- X Zabulon Skipper *Poanes zabulon*

DRAGONFLIES

- X Common Green Darner *Anax junius*
- X Spangled Skimmer *Libellula cyanea*
- X Blue Dasher *Pachydiplax longipennis*
- X Common Whitetail *Plathemis lydia*

NOTES

The park is relatively void of insects now.
Maybe due to wet, cold spring.

Survey Name: Southern Till Plain

Weather: P. Cloudy low 80s

Location: Red Hills State Park

Hours: 2.5

Date: 7 Jun 2009

Observers: R. Day

BUTTERFLIES

- X Cabbage White *Pieris rapae*
- X Orange Sulphur *Colias eurytheme*
- X Cloudless Sulphur *Phoebis sennae*

DRAGONFLIES

- X Common Green Darner *Anax junius*
- X Swamp Darner *Epiaeschna heros*
- X Plains Clubtail *Gomphus externus*
- X Prince Baskettail *Epiptera princeps*
- X Slender Baskettail *Epiptera costalis*
- X Calico Pennant *Celithemis elisa*
- X Common Pondhawk *Erythemis simplicicollis*
- X Spangled Skimmer *Libellula cyanea*
- X Slaty Skimmer *Libellula incesta*
- X Widow Skimmer *Libellula luctuosa*
- X Twelve-spotted Skimmer *Libellula pulchella*
- X Blue Dasher *Pachydiplax longipennis*
- X Eastern Amberwing *Perithemis tenera*
- X Common Whitetail *Plathemis lydia*
- X Black Saddlebags *Tamea lacerata*

Red Hills State Park Site Surveys

Survey Name: Southern Till Plain

Weather: P. Cloudy low 80s

Location: Red Hills State Park

Hours: 5

Date: 14 Jun 2009

Observers: R. Day

BUTTERFLIES

- X Pipevine Swallowtail *Battus philenor*
- X Eastern Tiger Swallowtail *Papilio glaucus*
- X Spicebush Swallowtail *Papilio troilus*
- X Cabbage White *Pieris rapae*
- X Orange Sulphur *Colias eurytheme*
- X Eastern Tailed-Blue *Everes comyntas*
- X American Snout *Libytheana carinenta*
- X Great Spangled Fritillary *Speyeria cybele*
- X Pearl Crescent *Phyciodes tharos*
- X Question Mark *Polygonia interrogationis*
- X Red Admiral *Vanessa atalanta*
- X Monarch *Danaus plexippus*
- X Silver-spotted Skipper *Epargyreus clarus*

DRAGONFLIES

- X Common Green Darner *Anax junius*
- X Prince Baskettail *Epitheca princeps*
- X Slaty Skimmer *Libellula incesta*
- X Widow Skimmer *Libellula luctuosa*
- X Twelve-spotted Skimmer *Libellula pulchella*
- X Blue Dasher *Pachydiplax longipennis*
- X Eastern Amberwing *Perithemis tenera*
- X Common Whitetail *Plathemis lydia*
- X Black Saddlebags *Tramea lacerata*

Survey Name: Southern Till Plain

Weather: P. Cloudy low 80s

Location: Red Hills State Park

Hours: 5

Date: 14 Jul 2009

Observers: R. Day

BUTTERFLIES

- X Pipevine Swallowtail *Battus philenor*
- X Eastern Tiger Swallowtail *Papilio glaucus*
- X Spicebush Swallowtail *Papilio troilus*
- X Orange Sulphur *Colias eurytheme*
- X Cloudless Sulphur *Phoebis sennae*
- X Question Mark *Polygonia interrogationis*
- X Eastern Comma *Polygonia comma*
- X Red-spotted Purple *Limenitis arthemis astyanax*
- X Silver-spotted Skipper *Epargyreus clarus*
- X Least Skipper *Ancyloxypha numitor*

DRAGONFLIES

- X Common Green Darner *Anax junius*
- X Prince Baskettail *Epitheca princeps*
- X Halloween Pennant *Celithemis eponina*
- X Spangled Skimmer *Libellula cyanea*
- X Slaty Skimmer *Libellula incesta*
- X Widow Skimmer *Libellula luctuosa*
- X Twelve-spotted Skimmer *Libellula pulchella*
- X Blue Dasher *Pachydiplax longipennis*
- X Eastern Amberwing *Perithemis tenera*
- X Common Whitetail *Plathemis lydia*
- X Black Saddlebags *Tramea lacerata*

Red Hills State Park Site Surveys

Survey Name: Southern Till Plain

Weather: P. Cloudy low 80s

Location: Red Hills SP Flower Strip

Hours: 2

Date: 29 Jul 2009

Observers: R. Day

BUTTERFLIES

- X Eastern Tiger Swallowtail *Papilio glaucus*
- X Spicebush Swallowtail *Papilio troilus*
- X Orange Sulphur *Colias eurytheme*
- X Eastern Tailed-Blue *Everes comyntas*
- X Pearl Crescent *Phyciodes tharos*
- X Painted Lady *Vanessa cardui*
- X Common Buckeye *Junonia coenia*
- X Red-spotted Purple *Limenitis arthemis astyanax*
- X Monarch *Danaus plexippus*
- X Silver-spotted Skipper *Epargyreus clarus*
- X Horace's Duskywing *Erynnis horatius*
- X Dun Skipper *Euphyes vestris*

DRAGONFLIES

- X Widow Skimmer *Libellula luctuosa*
- X Common Whitetail *Plathemis lydia*

Survey Name: Southern Till Plain

Weather: P. Cloudy low 80s

Location: Red Hills State Park

Hours: 8

Date: 3 Aug 2009

Observers: R. Day

BUTTERFLIES

- X Eastern Tiger Swallowtail *Papilio glaucus*
- X Spicebush Swallowtail *Papilio troilus*
- X Cabbage White *Pieris rapae*
- X Orange Sulphur *Colias eurytheme*
- X Eastern Tailed-Blue *Everes comyntas*
- X Great Spangled Fritillary *Speyeria cybele*
- X Silvery Checkerspot *Chlosyne nycteis*
- X Pearl Crescent *Phyciodes tharos*
- X Common Buckeye *Junonia coenia*
- X Monarch *Danaus plexippus*
- X Silver-spotted Skipper *Epargyreus clarus*
- X Common Sootywing *Pholisora catullus*

DRAGONFLIES

- X Common Green Darner *Anax junius*
- X Prince Baskettail *Epitheca princeps*
- X Halloween Pennant *Celithemis eponina*
- X Common Pondhawk *Erythemis simplicicollis*
- X Slaty Skimmer *Libellula incesta*
- X Widow Skimmer *Libellula luctuosa*
- X Twelve-spotted Skimmer *Libellula pulchella*
- X Blue Dasher *Pachydiplax longipennis*
- X Wandering Glider *Pantala flavescens*
- X Eastern Amberwing *Perithemis tenera*
- X Common Whitetail *Plathemis lydia*
- X Black Saddlebags *Tamea lacerata*

Red Hills State Park Site Surveys

Survey Name: Southern Till Plain

Weather: P. Cloudy upper 80s

Location: Red Hills State Park

Hours: 5.5

Date: 25 Aug 2009

Observers: R. Day

BUTTERFLIES

- X Spicebush Swallowtail *Papilio troilus*
- X Checkered White *Pontia protodice*
- X Cabbage White *Pieris rapae*
- X Clouded Sulphur *Colias philodice*
- X Orange Sulphur *Colias eurytheme*
- X Little Yellow *Eurema lisa*
- X Pearl Crescent *Phyciodes tharos*
- X Question Mark *Polygonia interrogationis*
- X Common Buckeye *Junonia coenia*
- X Red-spotted Purple *Limenitis arthemis astyanax*
- X Tawny Emperor *Asterocampa clyton*
- X Monarch *Danaus plexippus*
- X Silver-spotted Skipper *Epargyreus clarus*
- X Zabulon Skipper *Poanes zabulon*

DRAGONFLIES

- X Common Green Darner *Anax junius*
- X Prince Baskettail *Epiptera princeps*
- X Mocha Emerald *Somatochlora linearis*
- X Halloween Pennant *Celithemis eponina*
- X Common Pondhawk *Erythemis simplicicollis*
- X Slaty Skimmer *Libellula incesta*
- X Widow Skimmer *Libellula luctuosa*
- X Twelve-spotted Skimmer *Libellula pulchella*
- X Blue Dasher *Pachydiplax longipennis*
- X Wandering Glider *Pantala flavescens*
- X Eastern Amberwing *Perithemis tenera*
- X Common Whitetail *Plathemis lydia*
- X Blue-faced Meadowhawk *Sympetrum ambigua*
- X Black Saddlebags *Tamea lacerata*

Survey Name: Southern Till Plain

Weather: P. Cloudy low 80s

Location: Red Hills State Park

Hours: 6

Date: 14 Sep 2009

Observers: R. Day

BUTTERFLIES

- X Cabbage White *Pieris rapae*
- X Orange Sulphur *Colias eurytheme*
- X Cloudless Sulphur *Phoebis sennae*
- X Little Yellow *Eurema lisa*
- X Gray Hairstreak *Strymon melinus*
- X Eastern Tailed-Blue *Everes comyntas*
- X Pearl Crescent *Phyciodes tharos*
- X Question Mark *Polygonia interrogationis*
- X Common Buckeye *Junonia coenia*
- X Viceroy *Limenitis archippus*
- X Monarch *Danaus plexippus*
- X Silver-spotted Skipper *Epargyreus clarus*
- X Wild Indigo Duskywing *Erynnis baptisiae*
- X Fiery Skipper *Hylephila phyleus*
- X Peck's Skipper *Polites peckius*
- X Sachem *Atalopedes campestris*

DRAGONFLIES

- X Common Green Darner *Anax junius*
- X Slaty Skimmer *Libellula incesta*
- X Blue Dasher *Pachydiplax longipennis*

Red Hills State Park Site Surveys

Survey Name: Southern Till Plain

Weather: P. Cloudy low 80s

Location: Red Hills State Park

Hours: 5

Date: 5 Oct 2009

Observers: R. Day

BUTTERFLIES

- X Cabbage White *Pieris rapae*
- X Orange Sulphur *Colias eurytheme*
- X Cloudless Sulphur *Phoebis sennae*
- X Gray Hairstreak *Strymon melinus*
- X Eastern Tailed-Blue *Everes comyntas*
- X Pearl Crescent *Phyciodes tharos*
- X Question Mark *Polygonia interrogationis*
- X Mourning Cloak *Nymphalis antiopa*
- X Painted Lady *Vanessa cardui*
- X Red Admiral *Vanessa atalanta*
- X Common Buckeye *Junonia coenia*
- X Red-spotted Purple *Limenitis arthemis astyanax*
- X Gemmed Satyr *Cyllopsis gemma*
- X Least Skipper *Ancyloxypha numitor*

DRAGONFLIES

- X Common Green Damer *Anax junius*

Insect Survey Locations
Red Hills State Park Lawrence County
N38° 43' 29.8" W87° 49' 51.4" & N38° 43' 00.8" W87° 49' 46.8"
N38° 43' 57.9" W87° 50' 12.1" & N38° 43' 15.2" W87° 50' 24.0"



Miscellaneous Site Surveys

Survey Name: Southern Till Plain

Weather: Sunny upper 80s

Location: Embarras River Lawrence Co.

Hours: 6

Date: 11 Aug 2009

Observers: R. Day

BUTTERFLIES

- X Spicebush Swallowtail *Papilio troilus*
- X American Snout *Libytheana carinenta*
- X Red Admiral *Vanessa atalanta*
- X Red-spotted Purple *Limenitis arthemis astyanax*
- X Monarch *Danaus plexippus*
- X Zabulon Skipper *Poanes zabulon*

DRAGONFLIES

- X Common Green Darner *Anax junius*
- X Russet-tipped Clubtail *Stylurus plagiatus*
- X Great Blue Skimmer *Libellula vibrans*
- X Common Whitetail *Plathemis lydia*

Survey Name: Southern Till Plain

Weather: P. Cloudy upper 80s

Location: Embarras River Jasper Co.

Hours: 5

Date: 13 Aug 2009

Observers: R. Day

BUTTERFLIES

- X Spicebush Swallowtail *Papilio troilus*
- X Eastern Tailed-Blue *Everes comyntas*
- X Viceroy *Limenitis archippus*
- X Hackberry Emperor *Asterocampa celtis*
- X Monarch *Danaus plexippus*
- X Silver-spotted Skipper *Epargyreus clarus*

DRAGONFLIES

- X Russet-tipped Clubtail *Stylurus plagiatus*
- X Swift River Cruiser *Macromia illinoensis*
- X Royal River Cruiser *Macromia taeniolata*
- X American Rubyspot *Hetaerina americana*
- X Common Whitetail *Plathemis lydia*
- X Black Saddlebags *Tramea lacerata*

Survey Name: Southern Till Plain

Weather: P. Cloudy low 80s

Location: Embarras River Lawrence Co.

Hours: 6

Date: 9 Sep 2009

Observers: R. Day

BUTTERFLIES

- X Spicebush Swallowtail *Papilio troilus*
- X Cloudless Sulphur *Phoebis sennae*
- X Little Yellow *Eurema lisa*
- X Eastern Tailed-Blue *Everes comyntas*
- X Pearl Crescent *Phyciodes tharos*
- X Red-spotted Purple *Limenitis arthemis astyanax*
- X Monarch *Danaus plexippus*
- X Silver-spotted Skipper *Epargyreus clarus*

DRAGONFLIES

- X Common Green Darner *Anax junius*
- X Russet-tipped Clubtail *Stylurus plagiatus*
- X American Rubyspot *Hetaerina americana*
- X Wandering Glider *Pantala flavescens*
- X Eastern Amberwing *Perithemis tenera*
- X Common Whitetail *Plathemis lydia*
- X Black Saddlebags *Tramea lacerata*

Miscellaneous Site Surveys

Survey Name: Southern Till Plain

Weather: P. Cloudy low 80s

Location: Little Wabash River Clay Co.

Hours: 5

Date: 2 Aug 2009

Observers: R. Day

BUTTERFLIES

- X Eastern Tiger Swallowtail *Papilio glaucus*
- X Spicebush Swallowtail *Papilio troilus*
- X Viceroy *Limenitis archippus*
- X Monarch *Danaus plexippus*

DRAGONFLIES

- X Common Green Darner *Anax junius*
- X Cyrano Darner *Nasiaeschna pentacantha*
- X Swift River Cruiser *Macromia illinoensis*
- X Royal River Cruiser *Macromia taeniolata*
- X Widow Skimmer *Libellula luctuosa*
- X Blue Dasher *Pachydiplax longipennis*

Survey Name: Southern Till Plain

Weather: P. Cloudy upper 80s

Location: LWR Clay City Gauge

Hours: 4.5

Date: 10 Aug 2009

Observers: R. Day

BUTTERFLIES

- X Spicebush Swallowtail *Papilio troilus*
- X Orange Sulphur *Colias eurytheme*
- X Cloudless Sulphur *Phoebis sennae*
- X Little Yellow *Eurema lisa*
- X Eastern Tailed-Blue *Everes comyntas*
- X Pearl Crescent *Phyciodes tharos*
- X Question Mark *Polygonia interrogationis*
- X Red-spotted Purple *Limenitis arthemis astyanax*
- X Monarch *Danaus plexippus*
- X Silver-spotted Skipper *Epargyreus clarus*
- X Least Skipper *Ancyloxypha numitor*

DRAGONFLIES

- X Cyrano Darner *Nasiaeschna pentacantha*
- X Russet-tipped Clubtail *Stylurus plagiatus*
- X Royal River Cruiser *Macromia taeniolata*
- X Widow Skimmer *Libellula luctuosa*
- X Wandering Glider *Pantala flavescens*
- X Common Whitetail *Plathemis lydia*

Survey Name: Southern Till Plain

Weather: P. Cloudy upper 80s

Location: LWR Louisville

Hours: 5

Date: 13 Aug 2009

Observers: R. Day

BUTTERFLIES

- X Spicebush Swallowtail *Papilio troilus*
- X Cloudless Sulphur *Phoebis sennae*
- X Eastern Tailed-Blue *Everes comyntas*
- X Hackberry Emperor *Asterocampa celtis*
- X Monarch *Danaus plexippus*

DRAGONFLIES

- X Common Green Darner *Anax junius*
- X Russet-tipped Clubtail *Stylurus plagiatus*
- X Prince Baskettail *Epitheca princeps*
- X Swift River Cruiser *Macromia illinoensis*
- X Royal River Cruiser *Macromia taeniolata*
- X Blue Dasher *Pachydiplax longipennis*
- X Common Whitetail *Plathemis lydia*

Miscellaneous Site Surveys

Survey Name: Southern Till Plain

Weather: Sunny mid 80s

Location: White Farm-Siddens Lawrence Co.

Hours: 11.5

Date: 28 Aug 2008

BUTTERFLIES

- X Black Swallowtail *Papilio polyxenes*
- X Eastern Tiger Swallowtail *Papilio glaucus*
- X Cabbage White *Pieris rapae*
- X Orange Sulphur *Colias eurytheme*
- X Cloudless Sulphur *Phoebis sennae*
- X Eastern Tailed-Blue *Everes comyntas*
- X American Snout *Libytheana carinenta*
- X Pearl Crescent *Phyciodes tharos*
- X Painted Lady *Vanessa cardui*
- X Red Admiral *Vanessa atalanta*
- X Common Buckeye *Junonia coenia*
- X Red-spotted Purple *Limenitis arthemis astyanax*
- X Viceroy *Limenitis archippus*
- X Monarch *Danaus plexippus*
- X Silver-spotted Skipper *Epargyreus clarus*
- X Least Skipper *Ancyloxypha numitor*
- X Fiery Skipper *Hylephila phyleus*

DRAGONFLIES

- X Common Green Darner *Anax junius*
- X Royal River Cruiser *Macromia taeniolata*
- X Common Pondhawk *Erythemis simplicicollis*
- X Widow Skimmer *Libellula luctuosa*
- X Twelve-spotted Skimmer *Libellula pulchella*
- X Great Blue Skimmer *Libellula vibrans*
- X Blue Dasher *Pachydiplax longipennis*
- X Wandering Glider *Pantala flavescens*
- X Eastern Amberwing *Perithemis tenera*
- X Common Whitetail *Plathemis lydia*
- X Blue-faced Meadowhawk *Sympetrum ambiguum*
- X Blue-ringed Dancer *Argia sedula*
- X Fragile Forktail *Ischnura posita*

Survey Name: Southern Till Plain

Weather: Cloudy mid 80s

Location: Xenia RR Prairie- Clay Co.

Hours: 2

Date: 11 Sep 2008

BUTTERFLIES

- X Black Swallowtail *Papilio polyxenes*
- X Cabbage White *Pieris rapae*
- X Orange Sulphur *Colias eurytheme*
- X Cloudless Sulphur *Phoebis sennae*
- X Gray Hairstreak *Strymon melinus*
- X Eastern Tailed-Blue *Everes comyntas*
- X American Snout *Libytheana carinenta*
- X Pearl Crescent *Phyciodes tharos*
- X Painted Lady *Vanessa cardui*
- X Red Admiral *Vanessa atalanta*
- X Common Buckeye *Junonia coenia*
- X Red-spotted Purple *Limenitis arthemis astyanax*
- X Viceroy *Limenitis archippus*
- X Common Wood-Nymph *Cercyonis pegala*
- X Silver-spotted Skipper *Epargyreus clarus*
- X Fiery Skipper *Hylephila phyleus*
- X Dun Skipper *Euphyes vestris*

Miscellaneous Site Surveys

Survey Name: Southern Till Plain

Weather: P. Cloudy low 80s

Location: Lawrence County-Misc

Hours: 8

Date: 29 Jul 2009

Observers: R. Day

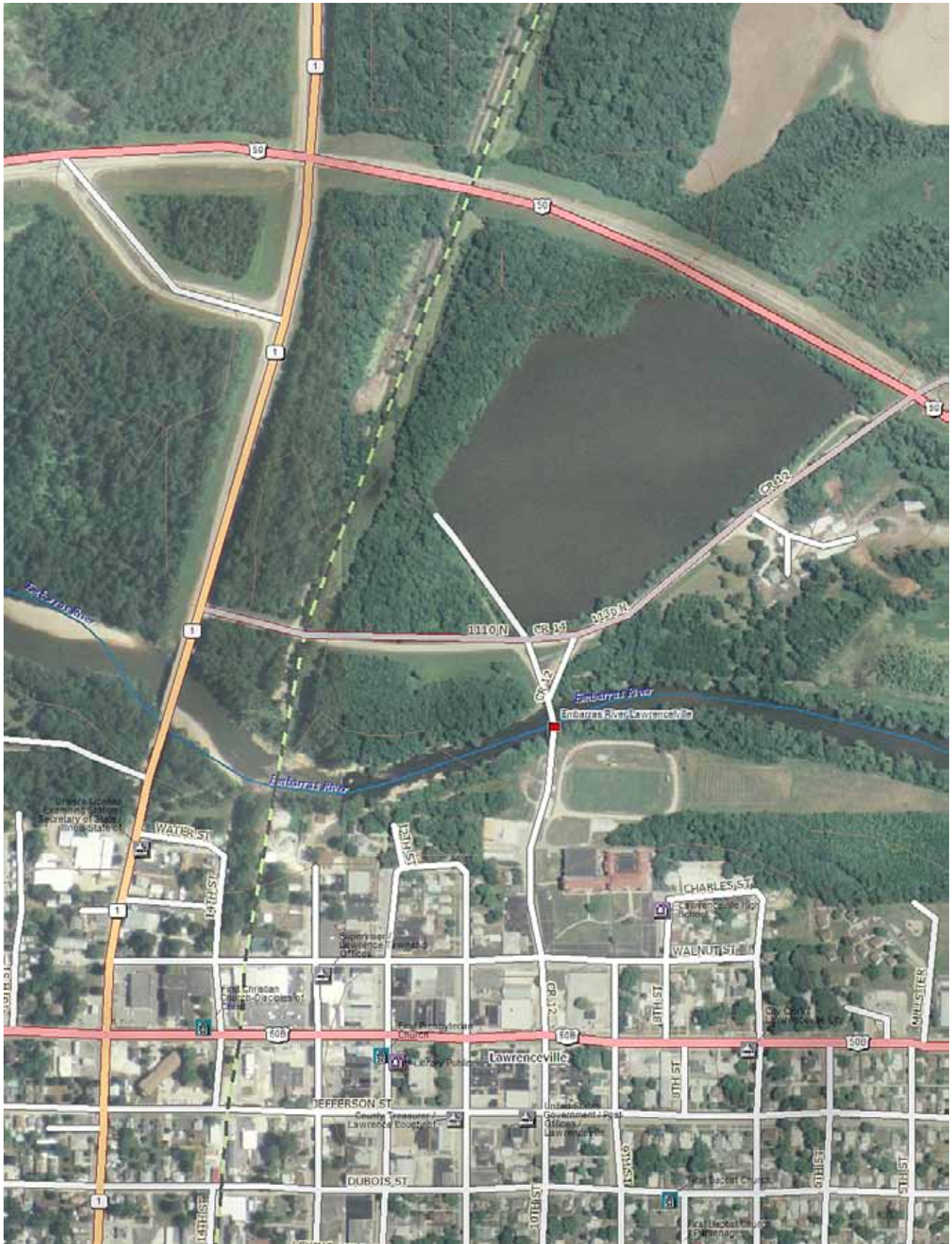
BUTTERFLIES

- X Pipevine Swallowtail *Battus philenor*
- X Zebra Swallowtail *Eurytides marcellus*
- X Eastern Tiger Swallowtail *Papilio glaucus*
- X Spicebush Swallowtail *Papilio troilus*
- X Cabbage White *Pieris rapae*
- X Orange Sulphur *Colias eurytheme*
- X Eastern Tailed-Blue *Everes comyntas*
- X Pearl Crescent *Phyciodes tharos*
- X Question Mark *Polygonia interrogationis*
- X Eastern Comma *Polygonia comma*
- X Painted Lady *Vanessa cardui*
- X Red Admiral *Vanessa atalanta*
- X Common Buckeye *Junonia coenia*
- X Red-spotted Purple *Limenitis arthemis astyanax*
- X Hackberry Emperor *Asterocampa celtis*
- X Monarch *Danaus plexippus*
- X Silver-spotted Skipper *Epargyreus clarus*

DRAGONFLIES

- X Common Green Darner *Anax junius*
- X Cyrano Darner *Nasiaeschna pentacantha*
- X Royal River Cruiser *Macromia taeniolata*
- X Common Pondhawk *Erythemis simplicicollis*
- X Slaty Skimmer *Libellula incesta*
- X Widow Skimmer *Libellula luctuosa*
- X Twelve-spotted Skimmer *Libellula pulchella*
- X Great Blue Skimmer *Libellula vibrans*
- X Blue Dasher *Pachydiplax longipennis*
- X Wandering Glider *Pantala flavescens*
- X Eastern Amberwing *Perithemis tenera*
- X Common Whitetail *Plathemis lydia*
- X Black Saddlebags *Tramea lacerata*

Insect Survey Location
Embarras River at Lawrenceville Lawrence County
N38° 43' 58.2" W87° 40' 51.0"



Insect Survey Location
Embarras River at Ste. Marie Jasper County
N38° 56' 13.3" W88° 01' 21.5"



Insect Survey Location
Little Wabash River Gauge Clay County
N38° 38' 04.6" W88° 17' 48.0"



Insect Survey Location
Little Wabash River Clay County
N38° 44' 52.4" W88° 28' 23.6"



Insect Survey Locations
Siddens Property & White Farm Lawrence County
Siddens-N38° 41' 49.8" W87° 40' 28.9"
White-N38° 41' 05.9" W87° 38' 29.0"



Insect Survey Location
Xenia RR Prairie Clay County
N38° 37' 33.3" W88° 41' 42.0"



Summary

The sites I visited in the Southern Till Plain Survey covered a variety of habitat types and various plant communities. None of these sites had been surveyed before. Chauncey Marsh and Red Hills State Park provided wetlands, wooded, and prairie areas while Miller Shrub Swamp Nature Preserve is mostly wetlands and woods. I surveyed various points along the Little Wabash and Embarras Rivers—in wooded and open areas along both rivers. Martin T. Snyder Nature Preserve, the smallest in size on the survey, proved to be the most diverse in species documented.

The spring of 2009 was one of the coolest and wettest in many years resulting in major flooding on rivers and wetlands in the survey area. I was not able to access many sites on the Little Wabash and Embarras Rivers for several months due to flooding. In normal years, these river sites would be habitats where Gomphidae Odonata (Clubtail family) would typically fly and which are missing on this report. Flag Pond, another wetland site with potential for many species, was flooded most of the season, and not accessible to survey. I recommend that these sites be surveyed again in the future.

In 2009, butterfly and dragonfly numbers statewide were down from past years. The usual number of species were seen, but numbers of individuals were lower than usual. Nevertheless, I was able to archive 21 new Dragonfly County Records and 64 species of Butterfly County Records with the Illinois State Museum. There were two butterfly species—Appalachian Brown and Gemmed Satyr—that have not been documented much in this area. I was surprised to find good numbers of them at both Miller Shrub Swamp Nature Preserve in Marion County and Martin T. Snyder Nature Preserve in Clay County.

Based on my experience, and after conducting this survey, I estimate that at least 7 species of butterflies, 6 species of dragonflies, and 4 species of damselflies could be added to the species list in future surveys.

Since this is the first survey in history on these sites, I believe it's important to continue documenting the insect numbers and diversity in future years. Since much of this region is located in flood-prone areas, species and numbers could fluctuate in different years. These surveys are important in creating awareness and providing historical information that will help with future management of these natural communities.

Acknowledgements

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