Species List for Odonata

(dragonflies and damselflies) in the Lower Green Bay / Fox River AOC

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This document provides a list of all dragonfly and damselfly species identified in the Lower Green Bay / Fox River Area of Concern by Willson Gaul during about 107 hours of surveying in the period from May through October, 2016 (Table 2). All observations were submitted to the Wisconsin Odonata Survey. Difficult identifications were confirmed by sending photographs to Wisconsin DNR odonata expert Bob DuBois. Observations for which species identification was uncertain were excluded when making this list. This list includes observations from Sensiba SWA, which is not inside the AOC but which was surveyed to provide observations from a high-quality reference wetland; two species (Beaverpond Baskettail and Belted Whiteface) are on this list but were observed only at Sensiba SWA and therefore should be excluded from a list of species observed within the AOC proper.

Table 2 includes codes giving a very imprecise estimate of how common or abundant each species is at each site. For some difficult-to-identify species, especially Bluets (*Enallagma sp*.) and White-faced Meadowhawk (*Sympetrum obtrusum.*) the codes probably under-estimate the commonness – these species are only identifiable with magnification in the hand, and so only 1 or 2 individuals may have been recorded even when there were dozens or hundreds flying.

Table 4 has approximate coordinates for sampling locations. The coordinates are the location of transects or specific observations of interest, but additional observations for each site were collected within about a 1-mile radius of the coordinates given here. For example, observations of species seen at the Sensiba location (Table 2) could have been made anywhere within 1 mile of any of the 3 “Sensiba” locations specified with coordinates in Table 4.

Table 1: Key to species abundance codes

|  |  |
| --- | --- |
| **Code** | **Interpretation** |
| r | rare – species observed only once at this site |
| uc | uncommon – between 2 and 10 individuals observed at this site, or species observed on between 2 and 10 occasions |
| c | common – 10 or more individuals observed at this site. |
| x | present – survey effort was insufficient to determine how common or abundant this species was at this site |

Table 2: Odonate Species in the LGB/FR AOC, ordered approximately from most to least abundant within the AOC. Scientific names are in Table 3.

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Species** | **Ashwaubomay River Park** | **Cat Island Causeway** | **Dead Horse Bay** | **East River Park** | **Long Tail Point** | **Point Sable** | **Sensiba** | **UWGB Arboretum** |
| Eastern Forktail | x | c | c | x | x | c | c | c |
| Sedge Sprite |  |  |  |  |  | c | c | r |
| Slender Spreadwing | x | uc |  |  |  | c | uc | uc |
| Taiga Bluet |  | uc |  |  |  | c | c |  |
| Autumn Meadowhawk |  | c |  |  | x | c | uc | c |
| Dot-tailed Whiteface |  | r |  |  |  | uc | c | uc |
| Common Green Darner | x | c | c |  |  | c | c | c |
| Twelve-spotted Skimmer |  | uc | x |  |  | uc | c | c |
| Tule Bluet | x | uc | uc |  | x | uc | uc |  |
| Marsh Bluet |  |  |  |  |  | uc | uc | c |
| Four-spotted Skimmer |  | uc |  |  |  | c | uc |  |
| White-faced Meadowhawk |  | uc | x |  |  | uc | uc | uc |
| Hagen's Bluet |  |  |  |  |  | uc | uc |  |
| Black Saddlebags |  | r | uc |  |  | r | uc | uc |
| Blue Dasher |  | uc | c | x |  | r | r |  |
| Eastern Amberwing | x |  | c | x |  | uc |  |  |
| Lance-tipped Darner |  | uc |  |  |  | c |  | r |
| **Chalk-fronted Corporal****[[1]](#footnote-1)** |  |  |  |  |  |  | uc |  |
| Eastern Pondhawk |  |  | c |  |  |  | uc | uc |
| Halloween Pennant |  |  | c |  |  |  | uc |  |
| Racket-tailed Emerald |  |  |  |  |  | uc | uc |  |
| Wandering Glider |  | uc |  |  |  |  |  | uc |
| Spotted Spreadwing |  |  |  |  |  | uc |  | r |
| **Ebony Jewelwing**1 |  |  |  |  |  |  |  | c |
| **Spot-winged Glider**1 |  | uc |  |  |  |  |  |  |
| Blue-fronted Dancer | x |  |  |  |  | uc |  |  |
| Ruby Meadowhawk |  |  |  |  |  | r |  | r |
| Band-winged Meadowhawk |  | r |  |  |  |  |  | r |
| **Belted Whiteface**1 |  |  |  |  |  |  | uc |  |
| Orange Bluet |  |  |  | x |  | r |  |  |
| **Emerald Spreadwing**1 |  |  |  |  |  | r |  |  |
| **Beaverpond Baskettail**1 |  |  |  |  |  |  | r |  |
| **Common Whitetail**1 |  |  |  |  |  |  |  | uc |
| **Familiar Bluet**1 |  | r |  |  |  |  |  |  |
| **Shadow Darner**1 |  |  |  |  |  | r |  |  |
| **Widow Skimmer**1 |  |  |  |  |  | r |  |  |
| **Green-striped Darner**1**,****[[2]](#footnote-2)** |  | r |  |  |  |  |  |  |
| **Russet-tipped Clubtail**1**,**2 | x |  |  |  |  |  |  |  |

# Survey Effort

I surveyed for roughly 107 hours in 2016. This includes time spent on designated transects as well as time spent walking to and from transect sites and exploring habitats in a non-structured way. The plot below shows total time spent at different sites (not just time spent on transects).



# Scientific Names

Table 3: Scientific and Common Names of Odonata found in the LGBFR AOC in 2016

|  |  |  |
| --- | --- | --- |
| **Scientific Name** | **Common Name** | **WI State Rank** |
| Aeshna constricta | Lance-tipped Darner |  |
| Aeshna umbrosa | Shadow Darner |  |
| Aeshna verticalis | Green-striped Darner | S3 |
| Anax junius | Common Green Darner |  |
| Argia apicalis | Blue-fronted Dancer |  |
| Calopteryx maculata | Ebony Jewelwing |  |
| Celithemis eponina | Halloween Pennant |  |
| Coenagrion resolutum | Taiga Bluet |  |
| Dorocordulia libera | Racket-tailed Emerald |  |
| Enallagma caunculatum | Tule Bluet |  |
| Enallagma civile | Familiar Bluet |  |
| Enallagma ebruim | Marsh Bluet |  |
| Enallagma hageni | Hagen's Bluet |  |
| Enallagma signatum | Orange Bluet |  |
| Epitheca canis | Beaverpond Baskettail |  |
| Erythermis simplicicollis | Eastern Pondhawk |  |
| Ischnura verticalis | Eastern Forktail |  |
| Ladona julia | Chalk-fronted Corporal |  |
| Lestes congener | Spotted Spreadwing |  |
| Lestes dryas | Emerald Spreadwing |  |
| Lestes rectangularis | Slender Spreadwing |  |
| Leucorrhinia intacta | Dot-tailed Whiteface |  |
| Leucorrhinia proxima | Belted Whiteface |  |
| Libellula luctuosa | Widow Skimmer |  |
| Libellula pulchella | Twelve-spotted Skimmer |  |
| Libellula quadrimaculata | Four-spotted Skimmer |  |
| Nehalennia irene | Sedge Sprite |  |
| Pachydiplax longipennis | Blue Dasher |  |
| Pantala flavescens | Wandering Glider |  |
| Pantala hymenaea | Spot-winged Glider |  |
| Perithemis tenera | Eastern Amberwing |  |
| Plathemis lydia | Common Whitetail |  |
| Stylurus plagiatus | Russet-tipped Clubtail | S3S4 |
| Sympetrum obtrusum | White-faced Meadowhawk |  |
| Sympetrum rubicundulum | Ruby Meadowhawk |  |
| Sympetrum semicinctum | Band-winged Meadowhawk |  |
| Sympetrum vicinum | Autumn Meadowhawk |  |
| Tramea lacerata | Black Saddlebags |  |

Species with a Wisconsin State Rank of S3 or lower (indicating vulnerable status) are indicated above. Explanation of WI State Rank Codes can be found at: dnr.wi.gov/topic/NHI/WList.html#SRank

Table : Approximate Coordinates of Sampling Locations. Sampling occurred within a roughly 1 mile radius around these points.

|  |  |  |  |
| --- | --- | --- | --- |
| **Transect\_ID** | **Site** | **lat** | **lon** |
| OD.PS1 | Pt Sable | 44.58429 | -87.8964 |
| OD.PS2 | Pt Sable | 44.58069 | -87.9067 |
| OD.PS2.PATH | Pt Sable | 44.58119 | -87.9062 |
| OD.PS3 | Pt Sable | 44.5772 | -87.9126 |
| OD.PS.EX4 | Pt Sable | 44.57993 | -87.9092 |
| OD.AR.POND | UWGB Arboretum | 44.52714 | -87.926 |
| OD.AR.MAHONCRK | UWGB Arboretum | 44.52663 | -87.9267 |
| OD.CATISL.ROCKSTRT | Cat Island | 44.58541 | -88.0153 |
| OD.CATISL.CAUSWY | Cat Island | 44.58271 | -88.0166 |
| OD.DEADHRS | Dead Horse Bay | 44.61918 | -88.0087 |
| OD.DEADHRS.W | Dead Horse Bay | 44.623 | -88.0119 |
| OD.LT.N | Long Tail Point | 44.62666 | -88.0081 |
| OD.SENSIBA.DIKE.N | Sensiba | 44.64433 | -88.0126 |
| OD.SENSIBA.DIKE.NE | Sensiba | 44.64376 | -88.009 |
| OD.SENSIBA.SHORE.N | Sensiba | 44.64443 | -88.0127 |
| OD.ASHWAUBOMAY | Ashwaubomay Memorial River Park | 44.46694 | -88.0567 |
| OD.EASTRIVERPARK | East River Park | 44.49488 | -87.9973 |

1. This species was observed at only one site within the AOC. [↑](#footnote-ref-1)
2. WI State Rank of S3 (vulnerable in WI) [↑](#footnote-ref-2)