

Site Descriptions of Cape Cod National Seashore Odonate Surveys *2016-2018*



Common Green Darner (Anax junius), freshly emerged adult, Blackwater Pond, Provincetown.

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This document provides supplemental information on the 41 wetlands at Cape Cod National Seashore that were surveyed for odonates in 2016-2018 and reported on by Nikula and Cook:

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Survey Area



Figure 1. Study area in Cape Cod, Massachusetts, with survey site locations noted (see Fig. 2-Fig. 4 for site names and more specific locations). Red=vernal pool; pink=riparian marsh; green=bog; blue=kettle pond; yellow=inter-dune pond; white=dune slack. Cape Cod National Seashore boundary outlined in green. Created using Google maps. Scale bar lower right corner is 3 miles.

Survey Sites

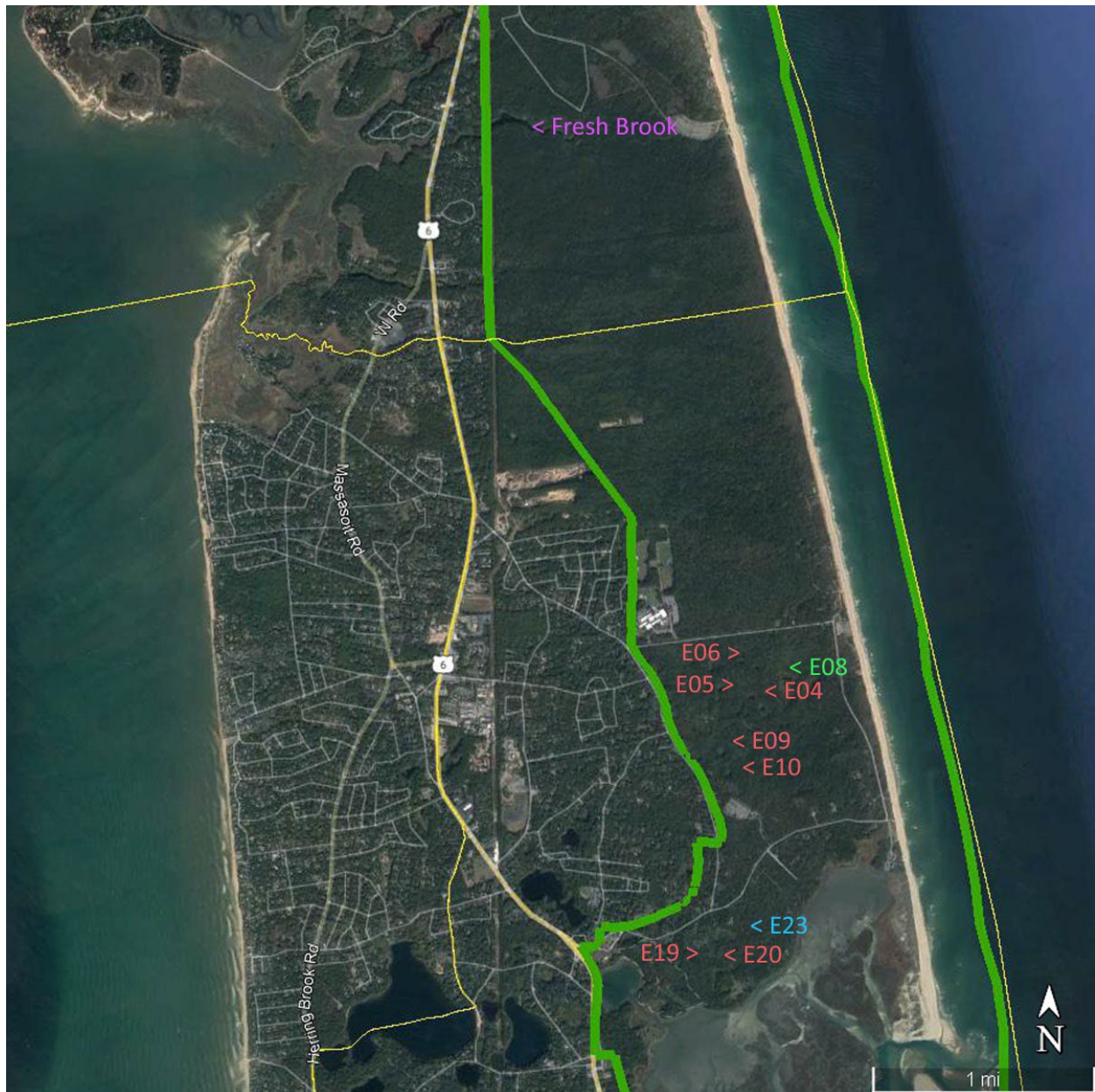


Figure 2. Survey sites in Eastham and South Wellfleet, Massachusetts. Red=vernal pool; pink=riparian marsh; green=bog; blue=kettle pond. Cape Cod National Seashore boundary outlined in green. Created using Google maps. Scale bar lower right is 1 mile.



Figure 3. Survey sites in Wellfleet and South Truro, Massachusetts. Red=vernal pool; pink=riparian marsh; green=bog; blue=kettle pond. Cape Cod National Seashore boundary outlined in green. Created using Google maps. Scale bar lower right is 2 miles.



Figure 4. Survey sites in Provincetown and North Truro, Massachusetts. Pink=riparian marsh; green=bog; yellow=inter-dune pond; white=dune slack. Cape Cod National Seashore boundary outlined in green. Created using Google maps. Scale bar lower right is 2 miles.

Table 1. Survey sites (n=41; 3-year sites in bold); towns; year(s) surveyed (2016-2018); hydrology; habitat; predatory fish presence; depth category (Shallow, < 2.1m, Deep, > 4.9m) at Cape Cod National Seashore, Massachusetts.

Site	Town	Year(s)	Hydrology	Habitat	Predatory Fish Presence	Depth Category
Blackwater Pond	Provincetown	all 3	permanent	inter-dune pond	No	Shallow
Blackwater Pond 3	Provincetown	2017	permanent	inter-dune pond	Yes	Shallow
Clapps Pond	Provincetown	2017	permanent	inter-dune pond	Yes	Shallow
Clapps Pond Bog	Provincetown	2017	permanent	bog	Yes	Shallow
Clapps Round Pond 3	Provincetown	2017	permanent	inter-dune pond	Yes	Shallow
Duck Pond	Wellfleet	2016	permanent	kettle pond	Yes	Deep
Dyer Pond	Wellfleet	2016	permanent	kettle pond	Yes	Deep
E04	Eastham	2017	semi-permanent	vernal pool	No	Shallow
E05	Eastham	2017	semi-permanent	vernal pool	No	Shallow
E06	Eastham	2017	semi-permanent	vernal pool	No	Shallow
E08	Eastham	2016	semi-permanent	bog	No	Shallow
E09	Eastham	all 3	semi-permanent	vernal pool	No	Shallow
E10	Eastham	all 3	semi-permanent	vernal pool	No	Shallow
E19	Eastham	2017	semi-permanent	vernal pool	No	Shallow
E20	Eastham	2017	semi-permanent	vernal pool	No	Shallow
E23	Eastham	2017	permanent	kettle pond	No	Shallow
Fresh Brook	Wellfleet	2018	permanent	riparian marsh	Yes	Shallow
Great Pond Truro	Truro	all 3	permanent	kettle pond	Yes	Deep
Great Pond Wellfleet	Wellfleet	all 3	permanent	kettle pond	Yes	Deep
Herring Pond	Wellfleet	all 3	permanent	kettle pond	Yes	Shallow
Herring River East	Wellfleet	2018	permanent	riparian marsh	Yes	Shallow
Herring River West	Wellfleet	2018	permanent	riparian marsh	Yes	Shallow
Higgins Pond	Wellfleet	2018	permanent	kettle pond	Yes	Deep
Horseleech Pond	Wellfleet	all 3	permanent	kettle pond	Yes	Deep
Little Bennett Pond	Provincetown	2017	permanent	inter-dune	No	Shallow
Little Spectacle Pond	Wellfleet	2018	permanent	kettle pond	No	Shallow
P05	Provincetown	2017	semi-permanent	dune slack	No	Shallow
P14	Provincetown	2018	permanent	bog	No	Shallow

Site	Town	Year(s)	Hydrology	Habitat	Predatory Fish Presence	Depth Category
P25	Provincetown	2017	permanent	inter-dune pond	No	Shallow
Pasture Pond 4	Provincetown	2017	permanent	inter-dune pond	Yes	Shallow
Round Pond East	Truro	2018	permanent	kettle pond	Yes	Deep
Round Pond West	Truro	2017	permanent	kettle pond	Yes	Deep
Salt Meadow Big Pool	Truro	2018	permanent	riparian marsh	No	Shallow
Snow Pond	Truro	all 3	permanent	kettle pond	Yes	Deep
Spectacle Pond	Wellfleet	2018	permanent	kettle pond	Yes	Deep
T01	Truro	all 3	semi-permanent	bog	N	Shallow
T20	Truro	2018	semi-permanent	bog	No	Shallow
T27	Truro	2018	permanent	kettle pond	No	Shallow
T28	Truro	2018	permanent	bog	No	Shallow
Turtle Pond	Wellfleet	all 3	permanent	kettle pond	Yes	Shallow
W07	Wellfleet	2018	semi-permanent	vernal pool	No	Shallow

Site Descriptions

Aerial images from Google Earth (oriented with north at the top of the image). Scale of images are variable. Site area is provided. Photos are of the transect areas, taken by Nikula. Breeding activity when recorded is indicated in the list of species recorded at each site.

Blackwater Pond

- Location: Provincetown, Massachusetts
- Habitat Type: Inter-dune Pond
- Years Surveyed: 2016, 2017, 2018
- Area (hectares): 2.25
- Survey Coordinates (UTM): Start at 4657958 N, 401182 E; End at 4657989 N, 401113 E
- Number of Surveys: 20
- Number of Species: 32
- Average Individuals/Survey: 106



Blackwater Pond Survey Transect



Blackwater Pond

Species at Blackwater Pond	Breeding Evidence
Spotted Spreadwing	Tenerals
Northern Spreadwing	Tenerals
Amber-winged Spreadwing	Tenerals
Sweetflag Spreadwing	Tenerals
Slender Spreadwing	Tenerals
Swamp Spreadwing	Tenerals
Variable Dancer	–
Northern Bluet	Tandem Pair
Azure Bluet	Tandem Pair
Slender Bluet	–
Citrine Forktail	–
Lilypad Forktail	–
Fragile Forktail	Tandem Pair
Eastern Forktail	Ovipositing Female
Mottled Darner	–
Common Green Darner	Tenerals
Comet Darner	–
Calico Pennant	–
Eastern Pondhawk	Ovipositing Female
White Corporal	Ovipositing Female
Dot-tailed Whiteface	–
Spangled Skimmer	Ovipositing Female
Slaty Skimmer	Ovipositing Female
Twelve-spotted Skimmer	–
Painted Skimmer	Ovipositing Female
Blue Dasher	Ovipositing Female
Spot-winged Glider	–
Common Whitetail	–
Ruby Meadowhawk	Tenerals
Autumn Meadowhawk	Tenerals
Carolina Saddlebags	Ovipositing Pair
Black Saddlebags	–

Blackwater Pond 3

- Location: Provincetown, Massachusetts
- Habitat Type: Inter-dune Pond
- Year Surveyed: 2017
- Area (hectares): 1.86
- Survey Coordinates (UTM): Start at 4657883 N, 401006 E; End at 4657781 N, 400876 E
- Number of Surveys: 6
- Number of Species: 21
- Average Individuals/Survey: 74



Blackwater Pond 3 Survey Transect



Blackwater Pond 3

Species at Blackwater Pond 3	Breeding Evidence
Amber-winged Spreadwing	Tandem pair
Sweetflag Spreadwing	Tenerals
Slender Spreadwing	Tenerals
Swamp Spreadwing	–
Northern Bluet	–
Azure Bluet	–
Citrine Forktail	–
Fragile Forktail	–
Eastern Forktail	Tandem pair
Common Green Darner	Tenerals
Eastern Pondhawk	Ovipositing female
White Corporal	Ovipositing female
Dot-tailed Whiteface	Ovipositing female
Spangled Skimmer	–
Slaty Skimmer	–
Twelve-spotted Skimmer	–
Painted Skimmer	–
Blue Dasher	–
Ruby Meadowhawk	Teneral
Autumn Meadowhawk	Teneral
Carolina Saddlebags	Tandem pair

Clapps Pond

- Location: Provincetown, Massachusetts
- Habitat Type: Inter-dune Pond
- Year Surveyed: 2017
- Area (hectares): 17.80
- Survey Coordinates (UTM): Start at 4656040 N, 399865 E; End at 4656116 N, 399900 E
- Number of Surveys: 6
- Number of Species: 14
- Average Individuals/Survey: 50



Clapps Pond Survey Transect



Clapps Pond

Species at Clapps Pond	Breeding Evidence
Northern Spreadwing	–
Elegant Spreadwing	
Swamp Spreadwing	Ovipositing pair
Northern Bluet	Tandem pair
New England Bluet	Tandem pair
Fragile Forktail	–
Eastern Forktail	–
Mottled Darner	–
Common Green Darner	Tandem pair
Eastern Pondhawk	Teneral
White Corporal	Ovipositing female
Dot-tailed Whiteface	–
Slaty Skimmer	Ovipositing female
Blue Dasher	–
Autumn Meadowhawk	Tandem pair

Clapps Pond Bog

- Location: Provincetown, Massachusetts
- Habitat Type: Bog
- Year Surveyed: 2017
- Area (hectares): ~21
- Survey Coordinates (UTM): Start at 4656669 N, 400119 E; End at 4656669 N, 400119 E
- Number of Surveys: 6
- Number of Species: 13
- Average Individuals/Survey: 36



Clapps Pond Bog Survey Transect



Clapps Pond Bog

Species at Clapps Pond Bog	Breeding Evidence
Slender Spreadwing	–
Eastern Forktail	–
Sphagnum Sprite	Teneral
Eastern Pondhawk	–
White Corporal	–
Bar-winged Skimmer	–
Spangled Skimmer	–
Slaty Skimmer	Tandem pair
Four-spotted Skimmer	Teneral
Painted Skimmer	Ovipositing female
Elfin Skimmer	Teneral
Blue Dasher	Tandem pair
Ruby Meadowhawk	Teneral

Clapps Round Pond 3

- Location: Provincetown, Massachusetts
- Habitat Type: Inter-dune Pond
- Year Surveyed: 2017
- Area (hectares): 0.57
- Survey Coordinates (UTM): Start at 4656773 N, 399892 E; End at 4656776 N, 399854 E
- Number of Surveys: 6
- Number of Species: 17
- Average Individuals/Survey: 53



Clapps Round Pond 3 Survey Transect



Clapps Round Pond 3

Species at Clapps Round Pond 3	Breeding Evidence
Amber-winged Spreadwing	–
Elegant Spreadwing	Teneral
Slender Spreadwing	Teneral
Swamp Spreadwing	–
Citrine Forktail	–
Fragile Forktail	Tandem pair
Eastern Forktail	Ovipositing female
Common Green Darner	–
Comet Darner	–
Eastern Pondhawk	–
Dot-tailed Whiteface	–
Spangled Skimmer	–
Slaty Skimmer	Ovipositing female
Blue Dasher	Ovipositing female
Ruby Meadowhawk	Teneral
Autumn Meadowhawk	Teneral
Carolina Saddlebags	Tandem pair

Duck Pond

- Location: Wellfleet, Massachusetts
- Habitat Type: Kettle Pond (deep)
- Year Surveyed: 2016
- Area (hectares): 5.1
- Survey Coordinates (UTM): Start at 46422932 N, 417099 E; End at 4642720 N, 417153 E
- Number of Surveys: 8
- Number of Species: 16
- Average Individuals/Survey: 76



Duck Pond Survey Transect



Duck Pond

Species at Duck Pond	Breeding Evidence
Variable Dancer	Teneral
Familiar Bluet	Teneral
Eastern Forktail	–
Mottled Darner	–
Common Green Darner	–
Lancet Clubtail	–
Common Sanddragon	–
Common Baskettail	–
Calico Pennant	–
Banded Pennant	–
Eastern Pondhawk	–
Slaty Skimmer	Tandem pair
Painted Skimmer	–
Blue Dasher	–
Autumn Meadowhawk	Ovipositing pair
Carolina Saddlebags	Tandem pair

Dyer Pond

- Location: Wellfleet, Massachusetts
- Habitat Type: Kettle-deep
- Year Surveyed: 2016
- Area (hectares): 4.6
- Survey Coordinates (UTM): Start at 4643540 N, 416419 E; End at 4164339 N, 416372 E
- Number of Surveys: 8
- Number of Species: 24
- Average Individuals/Survey: 45



Dyer Pond Survey Transect



Dyer Pond

Species at Dyer Pond	Breeding Evidence
Swamp Spreadwing	Ovipositing pair
Variable Dancer	Ovipositing pair
Familiar Bluet	Tandem pair
Atlantic Bluet	–
Skimming Bluet	–
Little Bluet	–
Pine Barrens Bluet	–
Slender Bluet	Ovipositing pair
Eastern Forktail	Ovipositing female
Mottled Darner	Ovipositing female
Common Green Darner	–
Lancet Clubtail	–
Common Sanddragon	–
Common Baskettail	–
Calico Pennant	Ovipositing pair
Banded Pennant	–
Martha's Pennant	Ovipositing female
Eastern Pondhawk	–
White Corporal	–
Slaty Skimmer	–
Blue Dasher	–
Ruby Meadowhawk	–
Autumn Meadowhawk	Ovipositing pair
Carolina Saddlebags	Tandem pair

E04

- Location: Eastham, Massachusetts
- Habitat Type: Vernal Pool
- Year Surveyed: 2017
- Area (hectares): 0.14
- Survey Coordinates (UTM): Start at 4634056 N, 420297 E; End at 4634056 N, 420297 E
- Number of Surveys: 6
- Number of Species: 15
- Average Individuals/Survey: 74



E04 Survey Transect



E04 Pool

Species at E04	Breeding Evidence
Spotted Spreadwing	–
Sweetflag Spreadwing	Teneral
Slender Spreadwing	Teneral
Fragile Forktail	–
Sphagnum Sprite	Teneral
Common Green Darner	–
Harlequin Darner	–
Eastern Pondhawk	–
Bar-winged Skimmer	–
Spangled Skimmer	–
Slaty Skimmer	–
Painted Skimmer	–
Blue Dasher	–
Ruby Meadowhawk	Teneral
Autumn Meadowhawk	Ovipositing pair

E05

- Location: Eastham, Massachusetts
- Habitat Type: Vernal Pool
- Year Surveyed: 2017
- Area (hectares): 0.16
- Survey Coordinates (UTM): Start at 4634068 N 420059 E; End at 4634118 N, 420111 E
- Number of Surveys: 6
- Number of Species: 15
- Average Individuals/Survey: 52



E05 Survey Transect



E05 Survey Transect

Species at E05	Breeding Evidence
Sweetflag Spreadwing	Teneral
Slender Spreadwing	–
Fragile Forktail	–
Sphagnum Sprite	Teneral
Common Green Darner	–
Eastern Pondhawk	–
Dot-tailed Whiteface	–
Bar-winged Skimmer	–
Spangled Skimmer	–
Slaty Skimmer	–
Painted Skimmer	–
Blue Dasher	Teneral
Spot-winged Glider	–
Ruby Meadowhawk	Tandem pair
Autumn Meadowhawk	Teneral

E06

- Location: Eastham, Massachusetts
- Habitat Type: Vernal Pool
- Year Surveyed: 2017
- Area (hectares): 0.12
- Survey Coordinates (UTM): Start at 4634290 N 420205 E; End at 4634284 N, 420245 E
- Number of Surveys: 6
- Number of Species: 16
- Average Individuals/Survey: 61



E06 Survey Transect



E06

Species at E06	Breeding Evidence
Spotted Spreadwing	–
Sweetflag Spreadwing	Ovipositing pair
Slender Spreadwing	–
Fragile Forktail	–
Eastern Forktail	Ovipositing female
Sphagnum Sprite	Teneral
Common Green Darner	–
Harlequin Darner	–
Eastern Pondhawk	–
Bar-winged Skimmer	Ovipositing female
Spangled Skimmer	–
Slaty Skimmer	Ovipositing female
Painted Skimmer	–
Great Blue Skimmer	–
Blue Dasher	–
Ruby Meadowhawk	Tandem pair

E08

- Location: Eastham, Massachusetts
- Habitat Type: Bog
- Year Surveyed: 2016
- Area (hectares): 0.42
- Survey Coordinates (UTM): Start at 4634121 N, 420502 E; End at 4634121 N, 420502 E
- Number of Surveys: 8
- Number of Species: 22
- Average Individuals/Survey: 90



E08 Survey Transect



E08 Pool

Species at E08	Breeding Evidence
Northern Spreadwing	–
Amber-winged Spreadwing	–
Sweetflag Spreadwing	Teneral
Slender Spreadwing	–
Swamp Spreadwing	–
Azure Bluet	–
Fragile Forktail	–
Eastern Forktail	Teneral
Sphagnum Sprite	Teneral
Black-tipped Darner	Ovipositing female
Green-striped Darner	–
Common Green Darner	–
Calico Pennant	–
Halloween Pennant	–
Eastern Pondhawk	Teneral
Dot-tailed Whiteface	–
Bar-winged Skimmer	–
Painted Skimmer	–
Blue Dasher	–
Ruby Meadowhawk	Tandem pair
Autumn Meadowhawk	–
Carolina Saddlebags	–

E09

Location: Eastham, Massachusetts

Habitat Type: Vernal Pool

Years Surveyed: 2016, 2017, 2018

Area (hectares): 0.22

Survey Coordinates (UTM): Start at 4633659 N, 420055 E; End at 4633659 N, 420055 E

Number of Surveys: 20

Number of Species: 26

Average Individuals/Survey: 284



E09 Survey Transect



E09 Pool

Species at E09	Breeding Evidence
Spotted Spreadwing	–
Amber-winged Spreadwing	Tandem pair
Sweetflag Spreadwing	Teneral
Slender Spreadwing	–
Northern Bluet	Ovipositing female
Azure Bluet	Tandem pair
Skimming Bluet	–
New England Bluet	–
Citrine Forktail	–
Fragile Forktail	Ovipositing pair
Eastern Forktail	Teneral
Black-tipped Darner	Ovipositing female
Common Green Darner	Ovipositing pair
Eastern Pondhawk	Teneral
Frosted Whiteface	–
Dot-tailed Whiteface	Tandem pair
Spangled Skimmer	–
Slaty Skimmer	Ovipositing female
Twelve-spotted Skimmer	–
Painted Skimmer	Ovipositing female
Blue Dasher	Teneral
Eastern Amberwing	–
Ruby Meadowhawk	Teneral
Autumn Meadowhawk	Teneral
Carolina Saddlebags	Ovipositing pair
Black Saddlebags	Tandem pair

E10

- Location: Eastham, Massachusetts
- Habitat Type: Vernal Pool
- Years Surveyed: 2016, 2017, 2018
- Area (hectares): 0.10
- Survey Coordinates (UTM): Start at 4633507 N, 420110 E; End at 4633507 N, 420110 E
- Number of Surveys: 20
- Number of Species: 26
- Average Individuals/Survey: 158



E10 Survey Transect



E10 Pool

Species at E10	Breeding Activity
Spotted Spreadwing	–
Amber-winged Spreadwing	–
Sweetflag Spreadwing	Teneral
Slender Spreadwing	–
Northern Bluet	–
Azure Bluet	Tandem pair
Citrine Forktail	–
Fragile Forktail	Teneral
Eastern Forktail	Ovipositing female
Sphagnum Sprite	–
Black-tipped Darner	Ovipositing female
Common Green Darner	Ovipositing pair
Calico Pennant	Ovipositing female
Halloween Pennant	–
Eastern Pondhawk	Teneral
Frosted Whiteface	–
Dot-tailed Whiteface	–
Spangled Skimmer	–
Slaty Skimmer	Ovipositing female
Twelve-spotted Skimmer	–
Painted Skimmer	Teneral
Blue Dasher	Teneral
Wandering Glider	–
Ruby Meadowhawk	Teneral
Autumn Meadowhawk	Ovipositing pair
Carolina Saddlebags	–

E19

- Location: Eastham, Massachusetts
- Habitat Type: Vernal Pool
- Year Surveyed: 2017
- Area (hectares): 0.07
- Survey Coordinates (UTM): Start at 4632084 N, 419759 E; End at 4632084 N, 419759 E
- Number of Surveys: 6
- Number of Species: 13
- Average Individuals/Survey: 41



E19 Survey Transect



E19 Pool

Species at E19	Breeding Activity
Spotted Spreadwing	–
Sweetflag Spreadwing	Tandem pair
Slender Spreadwing	Tandem pair
Citrine Forktail	–
Fragile Forktail	–
Eastern Forktail	–
Common Green Darner	–
Common Baskettail	–
Eastern Pondhawk	–
Slaty Skimmer	Tandem pair
Blue Dasher	–
Ruby Meadowhawk	Tandem pair
Autumn Meadowhawk	–

E20

- Location: Eastham, Massachusetts
- Habitat Type: Vernal Pool
- Year Surveyed: 2017
- Area (hectares): 0.30
- Survey Coordinates (UTM): Start at 4632046 N, 420009 E; End at 4632054 N, 420073 E
- Number of Surveys: 6
- Number of Species: 12
- Average Individuals/Survey: 33



E20 Survey Transect



E20 Pool

Species at E20	Breeding Activity
Spotted Spreadwing	–
Sweetflag Spreadwing	Teneral
Slender Spreadwing	Teneral
Fragile Forktail	–
Eastern Forktail	–
Common Green Darner	–
Eastern Pondhawk	–
Dot-tailed Whiteface	–
Painted Skimmer	–
Blue Dasher	–
Ruby Meadowhawk	Teneral
Autumn Meadowhawk	Teneral

E23

- Location: Eastham, Massachusetts
- Habitat Type: Kettle-shallow
- Year Surveyed: 2017
- Area (hectares): 0.77
- Survey Coordinates (UTM): Start at 4632281 N 420046 E; End at 4632286 N, 420152 E
- Number of Surveys: 6
- Number of Species: 17
- Average Individuals/Survey: 205



E23 Survey Transect



E23 Pond

Species at E23	Breeding Activity
Amber-winged Spreadwing	–
Sweetflag Spreadwing	Tandem pair
Slender Spreadwing	Teneral
Azure Bluet	–
Citrine Forktail	–
Eastern Forktail	–
Canada Darner	–
Common Green Darner	–
Eastern Pondhawk	–
Seaside Dragonlet	–
Dot-tailed Whiteface	–
Slaty Skimmer	–
Twelve-spotted Skimmer	–
Blue Dasher	Ovipositing female
Ruby Meadowhawk	Teneral
Autumn Meadowhawk	Tandem pair
Carolina Saddlebags	Ovipositing pair

Fresh Brook

- Location: Wellfleet, Massachusetts t
- Habitat Type: Riparian Marsh
- Year Surveyed: 2018
- Area (hectares): 2.50
- Survey Coordinates (UTM): Start at 4638093 N, 418793 E; End at 4638138 N, 418761 E
- Number of Surveys: 6
- Number of Species: 17
- Average Individuals/Survey: 29



Fresh Brook Survey Transect



Fresh Brook

Species at Fresh Brook	Breeding Activity
Elegant Spreadwing	–
Slender Spreadwing	–
Skimming Bluet	Tandem pair
Lilypad Forktail	–
Fragile Forktail	Tandem pair
Eastern Forktail	–
Common Green Darner	Ovipositing pair
Eastern Pondhawk	–
Blue Corporal	–
White Corporal	–
Dot-tailed Whiteface	–
Spangled Skimmer	–
Slaty Skimmer	Ovipositing female
Painted Skimmer	–
Blue Dasher	Ovipositing female
Ruby Meadowhawk	–
Autumn Meadowhawk	Teneral

Great Pond Truro

- Location: Truro, Massachusetts
- Habitat Type: Kettle-deep
- Years Surveyed: 2016, 2017, 2018
- Area (hectares): 7.0
- Survey Coordinates (UTM): Start at 4647448 N, 414771 E; End at 4647305 N, 414715 E
- Number of Surveys: 20
- Number of Species: 37
- Average Individuals/Survey: 76



Great Pond Truro Survey Transect



Great Pond Truro

Species Great Pond Truro	Breeding Activity
Sweetflag Spreadwing	Ovipositing pair
Slender Spreadwing	Ovipositing female
Swamp Spreadwing	Teneral
Variable Dancer	Teneral
Azure Bluet	–
Attenuated Bluet	Tandem pair
Atlantic Bluet	Tandem pair
Skimming Bluet	Tandem pair
New England Bluet	–
Little Bluet	–
Pine Barrens Bluet	Tandem pair
Orange Bluet	Teneral
Slender Bluet	Tandem pair
Fragile Forktail	–
Eastern Forktail	Tandem pair
Mottled Darner	–
Black-tipped Darner	–
Common Green Darner	–
Comet Darner	–
Lancet Clubtail	–
Common Sanddragon	–
Common Baskettail	–
Calico Pennant	Teneral
Banded Pennant	–
Martha's Pennant	Ovipositing pair
Eastern Pondhawk	Ovipositing female
Blue Corporal	–
White Corporal	Ovipositing female
Dot-tailed Whiteface	–
Golden-winged Skimmer	–
Slaty Skimmer	Ovipositing pair
Painted Skimmer	–
Blue Dasher	–
Eastern Amberwing	–
Ruby Meadowhawk	Ovipositing female
Autumn Meadowhawk	Teneral
Carolina Saddlebags	Ovipositing pair

Great Pond Wellfleet

- Location: Wellfleet, Massachusetts
- Habitat Type: Kettle-deep
- Years Surveyed: 2016, 2017, 2018
- Area (hectares): 17.8
- Survey Coordinates (UTM): Start: 4643574 N, 416889 E; End at 4643641 N, 416820 E
- Number of Surveys: 20
- Number of Species: 41
- Average Individuals/Survey: 124



Great Pond Wellfleet Survey Transect



Great Pond Wellfleet

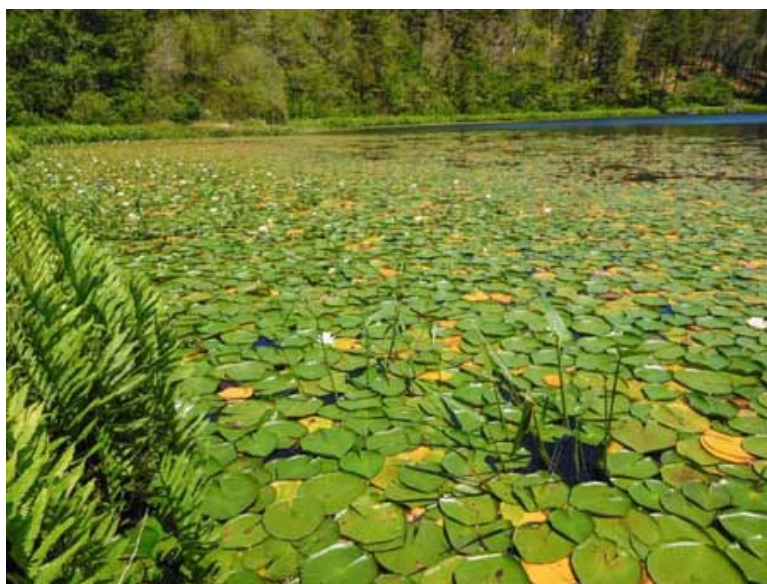
Species at Great Pond Wellfleet	Breeding Activity
Amber-winged Spreadwing	Tandem pair
Sweetflag Spreadwing	Tandem pair
Elegant Spreadwing	Tandem pair
Slender Spreadwing	–
Swamp Spreadwing	Tandem pair
Variable Dancer	Teneral
Azure Bluet	–
Familiar Bluet	Ovipositing pair
Attenuated Bluet	Tandem pair
Atlantic Bluet	Tandem pair
Skimming Bluet	Ovipositing pair
New England Bluet	–
Little Bluet	Tandem pair
Pine Barrens Bluet	Tandem pair
Orange Bluet	–
Fragile Forktail	–
Rambur's Forktail	–
Eastern Forktail	Teneral
Mottled Darner	Ovipositing female
Common Green Darner	–
Comet Darner	–
Lancet Clubtail	–
Common Sanddragon	–
Swift River Cruiser	–
Common Baskettail	–
Prince Baskettail	–
Calico Pennant	Teneral
Halloween Pennant	–
Banded Pennant	Teneral
Martha's Pennant	Teneral
Eastern Pondhawk	–
Blue Corporal	–
White Corporal	–
Slaty Skimmer	–
Painted Skimmer	–
Blue Dasher	–
Spot-winged Glider	–
Saffron-winged Meadowhawk	Ovipositing pair
Ruby Meadowhawk	–
Autumn Meadowhawk	Teneral
Carolina Saddlebags	Ovipositing pair

Herring Pond

- Location: Wellfleet, Massachusetts
- Habitat Type: Kettle Pond (shallow)
- Year(s) Surveyed: 2016, 2017, 2018
- Area (hectares): 8.1
- Survey Coordinates (UTM): Start at 4646178 N, 415839 E; End at 4646260 N, 415815 E
- Number of Surveys: 20
- Number of Species: 34
- Average Individuals/Survey: 306



Herring Pond Survey Transect



Herring Pond

Species at Herring Pond	Breeding Activity
Sweetflag Spreadwing	–
Elegant Spreadwing	–
Slender Spreadwing	Tandem pair
Swamp Spreadwing	Ovipositing pair
Ebony Jewelwing	–
Variable Dancer	Tandem pair
Attenuated Bluet	Tandem pair
Atlantic Bluet	–
Skimming Bluet	Teneral
Orange Bluet	Ovipositing pair
Slender Bluet	–
Lilypad Forktail	Tandem pair
Fragile Forktail	–
Eastern Forktail	Teneral
Common Green Darner	Ovipositing female
Lancet Clubtail	–
Common Sanddragon	Tandem pair
Prince Baskettail	–
Calico Pennant	Ovipositing female
Halloween Pennant	Ovipositing pair
Banded Pennant	–
Martha's Pennant	Ovipositing female
Eastern Pondhawk	Ovipositing female
Spangled Skimmer	Ovipositing pair
Slaty Skimmer	Ovipositing female
Needham's Skimmer	–
Twelve-spotted Skimmer	–
Painted Skimmer	–
Blue Dasher	Ovipositing female
Eastern Amberwing	Ovipositing female
Common Whitetail	–
Ruby Meadowhawk	Tandem pair
Autumn Meadowhawk	Teneral
Carolina Saddlebags	–

Herring River East

- Location: Wellfleet, Massachusetts
- Habitat Type: Riparian Marsh
- Year Surveyed: 2018
- Area (hectares): NA
- Survey Coordinates (UTM): Start at 4645975 N, 414804 E; End at 4645800 N, 414801 E
- Number of Surveys: 6
- Number of Species: 17
- Average Individuals/Survey: 20



Herring River East



Herring River East

Species at Herring River East	Breeding Activity
Slender Spreadwing	Teneral
Eastern Red Damsel	Teneral
Skimming Bluet	–
Fragile Forktail	Tandem pair
Eastern Forktail	–
Common Green Darner	–
Common Baskettail	–
Calico Pennant	–
Halloween Pennant	–
Eastern Pondhawk	Ovipositing female
Dot-tailed Whiteface	–
Spangled Skimmer	–
Slaty Skimmer	–
Blue Dasher	–
Ruby Meadowhawk	Teneral
Band-winged Meadowhawk	Teneral
Autumn Meadowhawk	Teneral

Herring River West

- Location: Wellfleet, Massachusetts
- Habitat Type: Riparian Marsh
- Year Surveyed: 2018
- Area (hectares): NA
- Survey Coordinates (UTM): Start at 4645699 N, 414598 E; End at 4645706 N, 414542 E
- Number of Surveys: 6
- Number of Species: 16
- Average Individuals/Survey: 24



Herring River West Survey Transect

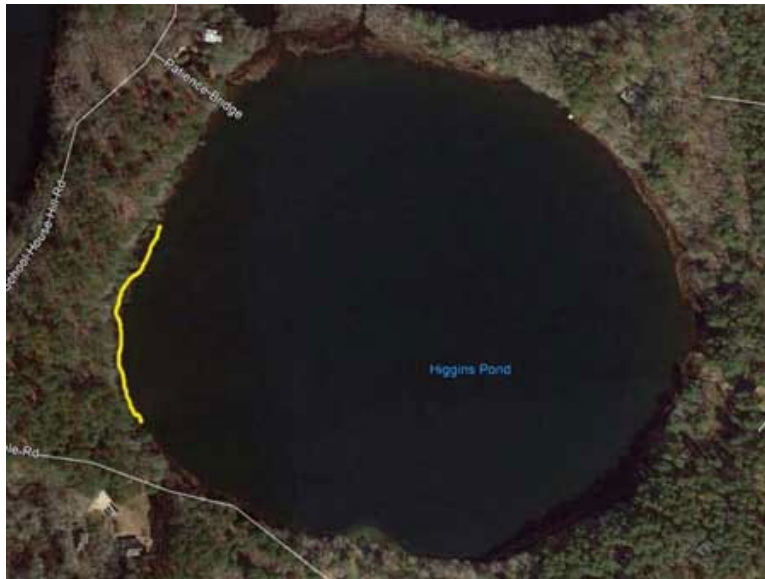


Herring River West

Species at Herring River West	Breeding Activity
Slender Spreadwing	–
Ebony Jewelwing	–
Eastern Red Damsel	Teneral
Fragile Forktail	Teneral
Eastern Forktail	–
Common Green Darner	–
Calico Pennant	–
Halloween Pennant	–
Eastern Pondhawk	–
Spangled Skimmer	–
Slaty Skimmer	–
Painted Skimmer	–
Blue Dasher	–
Ruby Meadowhawk	Ovipositing female
Band-winged Meadowhawk	Teneral
Autumn Meadowhawk	Teneral

Higgins Pond

- Location: Wellfleet, Massachusetts
- Habitat Type: Kettle Pond (deep)
- Year Surveyed: 2018
- Area (hectares): 11.3
- Survey Coordinates (UTM): Start at 4646054 N, 416260 E; End at 4645928 N, 416250 E
- Number of Surveys: 6
- Number of Species: 22
- Average Individuals/Survey: 92



Higgins Pond Survey Transect



Higgins Pond

Species at Higgins Pond	Breeding Activity
Swamp Spreadwing	Teneral
Variable Dancer	Tandem pair
Familiar Bluet	–
Attenuated Bluet	Teneral
Skimming Bluet	Tandem pair
New England Bluet	–
Slender Bluet	–
Fragile Forktail	–
Eastern Forktail	Teneral
Mottled Darner	
Common Green Darner	–
Common Baskettail	Ovipositing female
Prince Baskettail	–
Calico Pennant	Teneral
Halloween Pennant	–
Eastern Pondhawk	–
Blue Corporal	–
Slaty Skimmer	–
Blue Dasher	–
Eastern Amberwing	–
Ruby Meadowhawk	–
Autumn Meadowhawk	Teneral

Horseleech Pond

- Location: Truro, Massachusetts
- Habitat Type: Kettle-shallow
- Year(s) Surveyed: 2016, 2017, 2018
- Area (hectares): 10.0
- Survey Coordinates (UTM): Start at 4646624 N, 416849 E; End at 4646680 N, 416757 E
- Number of Surveys: 19
- Number of Species: 33
- Average Individuals/Survey: 219



Horseleech Pond Survey Transect



Horseleech Pond

Species at Horseleech Pond	Breeding Activity
Swamp Spreadwing	Teneral
Variable Dancer	Tandem pair
Attenuated Bluet	–
Atlantic Bluet	Teneral
Skimming Bluet	Tandem pair
New England Bluet	–
Little Bluet	Tandem pair
Pine Barrens Bluet	Tandem pair
Orange Bluet	–
Slender Bluet	Tandem pair
Vesper Bluet	Teneral
Eastern Forktail	Teneral
Mottled Darner	–
Common Green Darner	–
Comet Darner	–
Common Sanddragon	–
Common Baskettail	Ovipositing female
Prince Baskettail	–
Calico Pennant	Teneral
Halloween Pennant	Tandem pair
Banded Pennant	–
Martha's Pennant	Teneral
Eastern Pondhawk	–
White Corporal	–
Slaty Skimmer	–
Twelve-spotted Skimmer	–
Painted Skimmer	–
Blue Dasher	–
Eastern Amberwing	–
Saffron-winged Meadowhawk	Teneral
Ruby Meadowhawk	Tandem pair
Autumn Meadowhawk	Teneral
Carolina Saddlebags	–

Little Bennett Pond

- Location: Provincetown, Massachusetts
- Habitat Type: Inter-dune Pond
- Year Surveyed: 2017
- Area (hectares): 1.02
- Survey Coordinates (UTM): Start at 4657028 N, 400606 E; End at 4657080 N, 400527 E
- Number of Surveys: 6
- Number of Species: 16
- Average Individuals/Survey: 98



Little Bennet Pond Survey Transect



Little Bennet Pond

Species at Little Bennet Pond	Breeding Evidence
Amber-winged Spreadwing	Tandem pairs
Sweetflag Spreadwing	Ovipositing pairs
Slender Spreadwing	–
Northern Bluet	Tandem pairs
New England Bluet	–
Fragile Forktail	–
Eastern Forktail	–
Common Green Darner	Ovipositing female
Eastern Pondhawk	–
White Corporal	–
Dot-tailed Whiteface	–
Slaty Skimmer	Ovipositing female
Blue Dasher	–
Ruby Meadowhawk	–
Autumn Meadowhawk	–
Carolina Saddlebags	–

Little Spectacle Pond

- Location: Wellfleet, Massachusetts
- Habitat Type: Kettle Pond (deep)
- Year(s) Surveyed: 2018
- Area (hectares): 0.20
- Survey Coordinates (UTM): Start at 417494 N, 4644943 E; End at 417542 N, 4644940 E
- Number of Surveys: 6
- Number of Species: 20
- Average Individuals/Survey: 83



Little Spectacle Pond Survey Transect



Little Spectacle Pond

Species at Little Spectacle Pond	Breeding Activity
Amber-winged Spreadwing	–
Sweetflag Spreadwing	Tandem pair
Elegant Spreadwing	–
Slender Spreadwing	–
Swamp Spreadwing	–
Variable Dancer	Ovipositing pair
Familiar Bluet	Ovipositing pair
Attenuated Bluet	–
Skimming Bluet	Tandem pair
Fragile Forktail	–
Eastern Forktail	Tandem pair
Black-tipped Darner	–
Common Green Darner	–
Calico Pennant	–
Eastern Pondhawk	Ovipositing female
Slaty Skimmer	–
Painted Skimmer	–
Blue Dasher	Ovipositing female
Eastern Amberwing	–
Ruby Meadowhawk	Tandem pair
Autumn Meadowhawk	–

P05

- Location: Provincetown, Massachusetts
- Habitat Type: Dune Slack
- Year Surveyed: 2017
- Area (hectares): 0.90
- Survey Coordinates (UTM): Start at 4657962 N, 401573 E; End at 4658045 N, 401416 E
- Number of Surveys: 6
- Number of Species: 14
- Average Individuals/Survey: 121



P05 Survey Transect



P05

Species at P05	Breeding Activity
Amber-winged Spreadwing	–
Sweetflag Spreadwing	Tandem pair
Slender Spreadwing	Teneral
Northern Bluet	–
Citrine Forktail	–
Fragile Forktail	–
Eastern Forktail	Teneral
Common Green Darner	–
Eastern Pondhawk	Ovipositing female
Bar-winged Skimmer	–
Slaty Skimmer	–
Painted Skimmer	–
Blue Dasher	–
Ruby Meadowhawk	Teneral

P14

- Location: Provincetown, Massachusetts
- Habitat Type: Bog
- Year Surveyed: 2018
- Area (hectares): ~0.90
- Survey Coordinates (UTM): Start at 4656695 N, 400710 E; End at 4656695 N, 400710 E
- Number of Surveys: 6
- Number of Species: 13
- Average Individuals/Survey: 74



P14 Survey Transect



P14

Species at P14	Breeding Activity
Sweetflag Spreadwing	Teneral
Slender Spreadwing	Teneral
Azure Bluet	–
Fragile Forktail	–
Eastern Forktail	Tandem pair
Sphagnum Sprite	Teneral
Common Green Darner	–
Eastern Pondhawk	Ovipositing female
Dot-tailed Whiteface	–
Slaty Skimmer	–
Painted Skimmer	Teneral
Blue Dasher	–
Ruby Meadowhawk	Teneral

P25

- Location: Provincetown, Massachusetts
- Habitat Type: Inter-dune Pond
- Year Surveyed: 2017
- Area (hectares): 0.56
- Survey Coordinates (UTM): Start at 4656745 N, 400506 E; End at 4656724 N, 400578 E
- Number of Surveys: 6
- Number of Species: 13
- Average Individuals/Survey: 104



P25 Survey Transect



P25

Species at P25	Breeding Activity
Amber-winged Spreadwing	–
Sweetflag Spreadwing	Teneral
Elegant Spreadwing	Tandem pair
Slender Spreadwing	–
Fragile Forktail	–
Eastern Forktail	Teneral
Sphagnum Sprite	–
Common Green Darner	–
Eastern Pondhawk	–
Slaty Skimmer	Ovipositing female
Blue Dasher	Ovipositing female
Ruby Meadowhawk	Teneral
Carolina Saddlebags	–

Pasture Pond 4

- Location: Provincetown, Massachusetts
- Habitat Type: Inter-dune Pond
- Year Surveyed: 2017
- Area (hectares): 1.62
- Survey Coordinates (UTM): Start at 4656943 N, 400179 E; End at 4657029 N, 400113 E
- Number of Surveys: 6
- Number of Species: 18
- Average Individuals/Survey: 53



Pasture Pond 4 Survey Transect



Pasture Pond 4

Species at Pasture Pond 4	Breeding Activity
Amber-winged Spreadwing	Tandem pair
Sweetflag Spreadwing	–
Elegant Spreadwing	Ovipositing female
Swamp Spreadwing	Tandem pair
New England Bluet	Tandem pair
Fragile Forktail	–
Eastern Forktail	–
Mottled Darner	–
Common Green Darner	Ovipositing pair
Comet Darner	–
Common Baskettail	–
Eastern Pondhawk	–
White Corporal	–
Dot-tailed Whiteface	–
Slaty Skimmer	Ovipositing female
Blue Dasher	–
Ruby Meadowhawk	–
Carolina Saddlebags	Tandem pair

Round Pond East

- Location: Truro, Massachusetts
- Habitat Type: Kettle Pond (deep)
- Year Surveyed: 2018
- Area (hectares): 2.60
- Survey Coordinates (UTM): Start at 416219 N, 4647130 E; End at 416355 N, 4647109 E
- Number of Surveys: 6
- Number of Species: 22
- Average Individuals/Survey: 280



Round Pond East Survey Transect



Round Pond East

Species at Round Pond East	Breeding Activity
Variable Dancer	–
Atlantic Bluet	Tandem pair
Skimming Bluet	Tandem pair
Little Bluet	Tandem pair
Pine Barrens Bluet	–
Fragile Forktail	–
Eastern Forktail	–
Mottled Darner	Ovipositing female
Spatterdock Darner	–
Common Green Darner	–
Comet Darner	–
Lancet Clubtail	–
Common Sanddragon	–
Common Baskettail	Ovipositing female
Calico Pennant	Ovipositing pair
Martha's Pennant	–
Eastern Pondhawk	–
Blue Corporal	–
Slaty Skimmer	Ovipositing female
Blue Dasher	–
Ruby Meadowhawk	Tandem pair
Autumn Meadowhawk	Teneral
Carolina Saddlebags	Tandem pair

Round Pond West

- Location: Truro, Massachusetts
- Habitat Type: Kettle Pond (deep)
- Year Surveyed: 2017
- Area (hectares): 0.80
- Survey Coordinates (UTM): Start: 4647061 N, 414518 E; End at 4647147 N, 414458 E
- Number of Surveys: 6
- Number of Species: 23
- Average Individuals/Survey: 48



Round Pond West Survey Transect



Round Pond West

Species at Round Pond West	Breeding Activity
Sweetflag Spreadwing	Ovipositing female
Slender Spreadwing	Ovipositing female
Swamp Spreadwing	–
Variable Dancer	Tandem pair
Attenuated Bluet	Tandem pair
Skimming Bluet	–
Pine Barrens Bluet	Tandem pair
Lilypad Forktail	–
Fragile Forktail	–
Eastern Forktail	Teneral
Common Green Darner	–
Lancet Clubtail	–
Calico Pennant	–
Banded Pennant	Ovipositing female
Martha's Pennant	–
Eastern Pondhawk	Ovipositing female
White Corporal	Ovipositing female
Slaty Skimmer	–
Blue Dasher	–
Eastern Amberwing	–
Ruby Meadowhawk	–
Autumn Meadowhawk	Teneral
Carolina Saddlebags	–

Salt Meadow Big Pool

- Location: Truro, Massachusetts
- Habitat Type: Riparian Marsh
- Year Surveyed: 2018
- Area (hectares): 2.92
- Survey Coordinates (UTM): Start at 4656778 N, 408538 E; End at 4656830 N, 408536 E
- Number of Surveys: 6
- Number of Species: 11
- Average Individuals/Survey: 18



Salt Meadow Big Pool Survey Transect



Salt Meadow Big Pool

Species at Salt Meadow Big Pool	Breeding Activity
Slender Spreadwing	–
Fragile Forktail	–
Eastern Forktail	Tandem pair
Common Green Darner	–
Slaty Skimmer	–
Needham's Skimmer	–
Blue Dasher	–
Spot-winged Glider	Tandem pair
Eastern Amberwing	–
Ruby Meadowhawk	Teneral
Autumn Meadowhawk	–

Snow Pond

- Location: Truro, Massachusetts
- Habitat Type: Kettle Pond (deep)
- Years Surveyed: 2016, 2017, 2018
- Area (hectares): 2.30
- Survey Coordinates (UTM): Start at 4646934 N, 414967 E; End at 4647005 N, 414873 E
- Number of Surveys: 20
- Number of Species: 33
- Average Individuals/Survey: 113



Snow Pond Survey Transect



Snow Pond

Species at Snow Pond	Breeding Activity
Elegant Spreadwing	–
Slender Spreadwing	Ovipositing female
Swamp Spreadwing	Teneral
Variable Dancer	Ovipositing pair
Azure Bluet	Tandem pair
Attenuated Bluet	Teneral
Atlantic Bluet	Tandem pair
Skimming Bluet	Tandem pair
Little Bluet	–
Pine Barrens Bluet	Ovipositing pair
Vesper Bluet	–
Lilypad Forktail	–
Fragile Forktail	–
Eastern Forktail	Ovipositing pair
Mottled Darner	Ovipositing female
Common Green Darner	Ovipositing pair
Comet Darner	–
Lancet Clubtail	–
Common Baskettail	Ovipositing female
Calico Pennant	Teneral
Banded Pennant	–
Martha's Pennant	Teneral
Eastern Pondhawk	Ovipositing female
Blue Corporal	–
White Corporal	Ovipositing pair
Dot-tailed Whiteface	–
Slaty Skimmer	Ovipositing female
Painted Skimmer	–
Blue Dasher	Teneral
Eastern Amberwing	–
Ruby Meadowhawk	–
Autumn Meadowhawk	Teneral
Carolina Saddlebags	Tandem pair

Spectacle Pond

- Location: Wellfleet, Massachusetts
- Habitat Type: Kettle Pond (deep)
- Year Surveyed: 2018
- Area (hectares): 0.5
- Survey Coordinates (UTM): Start at 4644897 N, 417433 E; End at 4644827 N, 417429 E
- Number of Surveys: 6
- Number of Species: 24
- Average Individuals/Survey: 52



Spectacle Pond Survey Transect



Spectacle Pond

Species at Spectacle Pond	Breeding Activity
Swamp Spreadwing	–
Variable Dancer	–
Azure Bluet	–
Familiar Bluet	Tandem pair
Attenuated Bluet	Teneral
Atlantic Bluet	–
Skimming Bluet	Tandem pair
Pine Barrens Bluet	–
Vesper Bluet	–
Fragile Forktail	–
Eastern Forktail	Teneral
Mottled Darner	–
Common Green Darner	–
Lancet Clubtail	–
Calico Pennant	Teneral
Martha's Pennant	–
Eastern Pondhawk	–
Blue Corporal	–
Slaty Skimmer	Tandem pair
Painted Skimmer	–
Blue Dasher	–
Ruby Meadowhawk	–
Autumn Meadowhawk	Teneral
Carolina Saddlebags	–

T01

- Location: Truro, Massachusetts
- Habitat Type: Bog
- Year(s) Surveyed: 2016, 2017, 2018
- Area (hectares): 0.13
- Survey Coordinates (UTM): Start at 4648549 N, 412523 E; End at 4648549 N, 412523 E
- Number of Surveys: 20
- Number of Species: 27
- Average Individuals/Survey: 139



T01 Survey Transect



T01

Species at T01	Breeding Activity
Amber-winged Spreadwing	Tandem pair
Sweetflag Spreadwing	Tandem pair
Slender Spreadwing	Tandem pair
Fragile Forktail	Teneral
Eastern Forktail	Teneral
Sphagnum Sprite	Teneral
Mottled Darner	–
Black-tipped Darner	Ovipositing female
Green-striped Darner	–
Common Green Darner	–
Harlequin Darner	–
Lancet Clubtail	–
Petite Emerald	–
Common Baskettail	–
Calico Pennant	Teneral
Halloween Pennant	–
Eastern Pondhawk	Ovipositing female
Dot-tailed Whiteface	–
Spangled Skimmer	Teneral
Slaty Skimmer	Ovipositing female
Needham's Skimmer	–
Four-spotted Skimmer	Teneral
Painted Skimmer	Teneral
Blue Dasher	–
Wandering Glider	–
Ruby Meadowhawk	Teneral
Autumn Meadowhawk	Teneral

T20 (Montanos Bog)

- Location: Truro, Massachusetts
- Habitat Type: Bog
- Year Surveyed: 2018
- Area (hectares): ~4.36
- Survey Coordinates (UTM): Start at 4655567 N, 409690 E; End at 4655537 N, 409682 E
- Number of Surveys: 6
- Number of Species: 20
- Average Individuals/Survey: 74



T20 Survey Transect



T20

Species at T20	Breeding Activity
Amber-winged Spreadwing	–
Sweetflag Spreadwing	Tandem pair
Slender Spreadwing	–
Azure Bluet	Tandem pair
Fragile Forktail	–
Eastern Forktail	–
Sphagnum Sprite	Teneral
Common Green Darner	–
Petite Emerald	–
Common Baskettail	–
Eastern Pondhawk	Ovipositing female
Dot-tailed Whiteface	–
Spangled Skimmer	–
Slaty Skimmer	–
Painted Skimmer	Ovipositing female
Blue Dasher	Ovipositing female
Ruby Meadowhawk	Teneral
Autumn Meadowhawk	Teneral
Carolina Saddlebags	–
Black Saddlebags	–

T27 (Bearberry Hill Pond)

- Location: Truro, Massachusetts
- Habitat Type: Kettle Pond (shallow)
- Year Surveyed: 2018
- Area (hectares): 0.24
- Survey Coordinates (UTM): Start at 4650546 N, 415216 E; End at 4650546 N, 415216 E
- Number of Surveys: 6
- Number of Species: 24
- Average Individuals/Survey: 162



T27 Survey Transect



T27 Pond

Species at T27	Breeding Activity
Northern Spreadwing	Tandem pair
Amber-winged Spreadwing	Tandem pair
Sweetflag Spreadwing	Tandem pair
Slender Spreadwing	–
Northern Bluet	Tandem pair
Azure Bluet	Tandem pair
Atlantic Bluet	–
Fragile Forktail	–
Eastern Forktail	Teneral
Mottled Darner	–
Spatterdock Darner	–
Black-tipped Darner	–
Common Green Darner	–
Eastern Pondhawk	–
Blue Corporal	–
White Corporal	–
Dot-tailed Whiteface	–
Spangled Skimmer	–
Slaty Skimmer	Ovipositing female
Needham's Skimmer	–
Blue Dasher	–
Ruby Meadowhawk	–
Autumn Meadowhawk	Teneral

T28

- Location: Truro, Massachusetts
- Habitat Type: Bog
- Year Surveyed: 2018
- Area (hectares): 0.04
- Survey Coordinates (UTM): Start at 4647291 N, 416439 E; End at 4647272 N, 416429 E
- Number of Surveys: 6
- Number of Species: 21
- Average Individuals/Survey: 94



T28 Survey Transect



T28

Species at T28	Breeding Activity
Sweetflag Spreadwing	Teneral
Slender Spreadwing	Teneral
Fragile Forktail	–
Eastern Forktail	–
Sphagnum Sprite	Teneral
Black-tipped Darner	–
Petite Emerald	–
Common Baskettail	–
Calico Pennant	–
Halloween Pennant	–
Martha's Pennant	–
Eastern Pondhawk	Ovipositing female
Dot-tailed Whiteface	Ovipositing female
Bar-winged Skimmer	–
Spangled Skimmer	–
Slaty Skimmer	–
Painted Skimmer	–
Blue Dasher	Ovipositing female
Ruby Meadowhawk	Teneral
Band-winged Meadowhawk	–
Autumn Meadowhawk	Teneral

Turtle Pond

- Location: Wellfleet, Massachusetts
- Habitat Type: Kettle Pond (shallow)
- Year(s) Surveyed: 2016, 2017, 2018
- Area (hectares): 1.60
- Survey Coordinates (UTM): Start at 4643451 N, 416800 E, End at 4643547 N, 416750 E
- Number of Surveys: 20
- Number of Species: 36
- Average Individuals/Survey: 133



Turtle Pond Survey Transect



Turtle Pond

Species at Turtle Pond	Breeding Activity
Amber-winged Spreadwing	Tandem pair
Sweetflag Spreadwing	Tandem pair
Elegant Spreadwing	Ovipositing female
Slender Spreadwing	–
Swamp Spreadwing	Ovipositing pair
Variable Dancer	Tandem pair
Azure Bluet	–
Atlantic Bluet	Tandem pair
Skimming Bluet	Tandem pair
Little Bluet	–
Pine Barrens Bluet	–
Slender Bluet	–
Citrine Forktail	–
Fragile Forktail	Tandem pair
Eastern Forktail	Ovipositing pair
Mottled Darner	Teneral
Common Green Darner	Ovipositing pair
Comet Darner	–
Lancet Clubtail	–
Common Sanddragon	–
Common Baskettail	–
Calico Pennant	Ovipositing pair
Banded Pennant	Ovipositing pair
Martha's Pennant	Ovipositing pair
Eastern Pondhawk	Ovipositing female
Blue Corporal	–
White Corporal	–
Dot-tailed Whiteface	–
Slaty Skimmer	Ovipositing female
Painted Skimmer	–
Blue Dasher	–
Eastern Amberwing	Ovipositing pair
Ruby Meadowhawk	–
Autumn Meadowhawk	Ovipositing pair
Carolina Saddlebags	Ovipositing pair
Black Saddlebags	–

W07

- Location: Wellfleet, Massachusetts
- Habitat Type: Vernal Pool
- Year Surveyed: 2018
- Area (hectares): 0.17
- Survey Coordinates (UTM): Start at 4645000 N, 417434 E; End at 4645000 N 417434 E
- Number of Surveys: 6
- Number of Species: 21
- Average Individuals/Survey: 94



W07 Survey Transect



W07

Species at W07	Breeding Activity
Spotted Spreadwing	Teneral
Amber-winged Spreadwing	Teneral
Sweetflag Spreadwing	Teneral
Elegant Spreadwing	–
Slender Spreadwing	Teneral
Variable Dancer	–
Taiga Bluet	–
Northern Bluet	–
Attenuated Bluet	–
Fragile Forktail	–
Eastern Forktail	–
Spatterdock Darner	–
Black-tipped Darner	–
Common Green Darner	–
Eastern Pondhawk	–
Dot-tailed Whiteface	–
Slaty Skimmer	–
Painted Skimmer	–
Blue Dasher	–
Ruby Meadowhawk	Tandem pair
Autumn Meadowhawk	Teneral