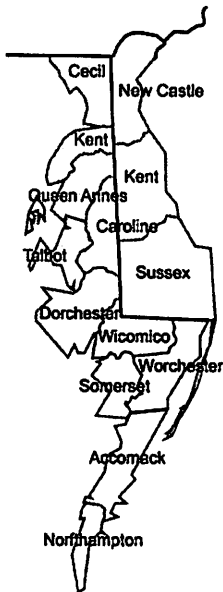
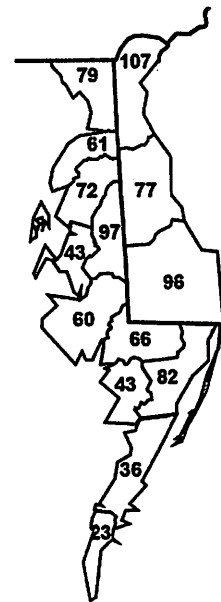




Distribution Maps of Odonata by County on the Delmarva Peninsula



Compiled by Hal White
15 February 2020



The maps that follow are updated from those published in 2011 in my book, *Natural History of Delmarva Dragonflies and Damselflies*. They include data for Maryland counties through 2019 distributed by Richard Orr as well as new county records for Delaware. Species for which here are no county records indicated represent species reported, but not yet confirmed, or a few species from nearby states that are expected. There are additional species, not included that reasonably could be discovered including: *Gomphurus vastus* (Cobra Clubtail) and other large-stream Clubtails that likely occur on the Susquehanna River; *Macromia allegheniensis* (Allegheny River Cruiser), *Ladona exusta* (White Corporal), *Enallagma pictum* (Scarlet Bluet), and *Celithemis ornata* (Faded Pennant) known from the New Jersey Pine Barrens; and *Celithemis bertha* (Red-veined Pennant) found on the Western Shore of Maryland.

Since publication of the book, five Odonata species have been added to the Delmarva list, *Rhionaeschna mutata* (Spatterdock Darner), *Lanthus vernalis* (Southern Pygmy Clubtail), and *Libellula auripennis* (Golden-winged Skimmer) all from northern New Castle County, Delaware, and all discovered by Jim White of the Delaware Nature Society. In addition, there are recent records of *Sympetrum corruptum* (Variagated Meadowhawk) and *Macrodiplax balteata* (Marl Pennant) from Maryland. As is evident from the maps, very little is known about the Odonata fauna of Accomack and Northampton counties, two Virginia counties at the southern end of the Delmarva Peninsula. Based on coastal records from the Carolinas, additional species with southern affinities such as *Miathyria marcella* (Greater Hyacinth Glider) might be expected there.

In the following pages I have presented maps in the order species appeared in my 2011 book; however, with recent taxonomic revisions some will seem out of order.

Checklist of Zygoptera and Anisoptera (Odonata) Known from Delmarva

GENUS	SPECIES	DR Rank	New Castle	Kent	Sussex	MD Rank	Cecil	Kent	Queen Annes	Caroline	Talbot	Dorchester	Wicomico	Worcester	Somerset	Accomack	Northampton	COMMON NAME
1	Calopteryx dimidiata	T2		X	X	S2		X	X	X		X	X					Sparkling Jewelwing
2	Calopteryx maculata		X	X	X		X	X	X	X	X	X	X	X	X	X		Ebony Jewelwing
3	Hetaerina americana		X	X	X		X											American Rubyspot
4	Archilestes grandis	T2	X			S3												Great Spreadwing
6	Lestes australis	T2	X		X		X		X	X	X	X	X	X	X	X		Southern Spreadwing
5	Lestes congener	T2	X			S3		X		X								Spotted Spreadwing
7	Lestes eurus	T1	X			S3	X	X										Amber-winged Spreadwing
8	Lestes forcipatus	T2	X	X	X	S3	X	X	X	X	X	X						Sweetflag Spreadwing
9	Lestes inaequalis	T2	X	X	X		X	X	X	X	X	X		X	X	X		Elegant Spreadwing
10	Lestes rectangularis		X	X	X		X	X	X	X	X	X		X	X	X		Slender Spreadwing
11	Lestes vigilax	T3	X	X	X					X	X	X	X	X				Swamp Spreadwing
12	Amphiagrion saucium	T3	X	X	X	S3S4			X	X	X	X	X	X		X		Eastern Red Damselfly
13	Argia apicalis		X	X	X		X	X	X	X	X			X				Blue-fronted Dancer
14	Argia bipunctulata	T1		X	X	S3									X	X		Seepage Dancer
15	Argia fumipennis		X	X	X		X	X	X	X	X	X	X	X	X	X		Variable Dancer
16	Argia moesta		X				X											Powdered Dancer
17	Argia sedula	U	X															Blue-ringed Dancer
18	Argia tibialis		X	X	X		X	X	X	X	X	X	X	X				Blue-tipped Dancer
19	Argia translata	T2	X				X			X								Dusky Dancer
20	Chromagrion conditum	T2	X		X	S3S4	X			X			X	X				Aurora Damselfly
21	Enallagma aspersum	T3	X	X	X		X	X	X	X	X	X	X	X	X	X		Azure Bluely
22	Enallagma basidens	T2	X	X	X		X	X	X	X	X	X	X	X	X	X		Double-striped Bluely
23	Enallagma civile		X	X	X		X	X	X	X	X	X	X	X	X	X		Familiar Bluely
24	Enallagma daeckii	T2	X	X	X	S3				X			X	X	X	X		Attenuated Bluely
25	Enallagma divagans	T3	X	X	X	S3S4			X	X		X	X	X	X	X		Turquoise Bluely
26	Enallagma doubledayi	U				S1				X			X					Atlantic Bluely
27	Enallagma dubium	T1			X	S1			0	X				X				Burgundy Bluely
28	Enallagma durum	T2	X		X	S3	X	X	X	X	X	X						Big Bluely
29	Enallagma exulans		X	X	X		X		X	X				X				Stream Bluely
30	Enallagma geminatum	T3	X	X	X		X	X	X	X	X	X	X	X	X	X		Skimming Bluely
31	Enallagma pallidum	T1			X	S1				X			X					Pale Bluely
32	Enallagma signatum		X	X	X		X	X	X	X	X	X	X	X	X	X		Orange Bluely
33	Enallagma traviatum	T3	X	X	X	S3		X	X	X	X	X	X	X	X	X		Slender Bluely
34	Enallagma vesperum	T2	X	X	X	S3	X		X	X	X	X	X	X	X	X		Vesper Bluely
35	Enallagma weewa	T2			X	S2			X	X	X	X	X	X	X	X		Blackwater Bluely

Checklist of Zygoptera and Anisoptera (Odonata) Known from Delmarva

GENUS	SPECIES	DE Rank	New Castle	Kent	Sussex	MD Rank	Cecil	Kent	Queen Annes	Caroline	Talbot	Dorchester	Wicomico	Worcester	Somerset	Accomack	Northampton	COMMON NAME
36	<i>Ischnura hastata</i>		X	X	X		X	X	X	X	X	X	X	X	X	X	X	Citrine Forktail
37	<i>Ischnura kellicottii</i>	T2	X	X		S3S4				X			X		X	X		Lilypad Forktail
38	<i>Ischnura posita</i>		X	X	X		X	X	X	X	X	X	X	X	X	X	X	Fragile Forktail
39	<i>Ischnura prognata</i>	U				S1	X			X			X		X			Furtive Forktail
40	<i>Ischnura ramburii</i>		X	X	X		X	X	X	X	X	X	X	X	X	X	X	Rambur's Forktail
41	<i>Ischnura verticalis</i>		X	X	X		X	X	X	X	X	X	X	X	X			Eastern Forktail
42	<i>Nehalennia gracilis</i>	T2	X	X	X	S2		X		X			X					Sphagnum Sprite
43	<i>Nehalennia integricollis</i>	T2		X		S1S2				X				X				Southern Spite
44	<i>Telebasis biversi</i>	T2		X		S1				X				X			X	Duckweed Firetail
1	<i>Tachopteryx thoreyi</i>	U				S3	X											Grey Petaltail
2	<i>Argemomphus villosipes</i>	T3	X	X	X		X	X	X	X	X	X	X	X	X			Unicorn Clubtail
3	<i>Dromogomphus spinosus</i>	T2	X	X	X		X	X	X	X	X	X	X	X	X			Black-shouldered Spinyleg
4	<i>Phanogomphus exilis</i>		X	X	X		X	X	X	X	X	X	X	X	X			Lancet Clubtail
5	<i>Phanogomphus lividus</i>		X	X	X		X	X	X	X	X	X	X	X	X			Ashy Clubtail
6	<i>Hylogomphus apomius</i>	T1		X	X	U												Banner Clubtail
7	<i>Gomphurus fraternus</i>	T1			X	S2												Midland Clubtail
8	<i>Stenogomphus rogersi</i>	T1	X		X	S2			X			X						Sable Clubtail
9	<i>Hagenius brevistylus</i>		X	X	X		X	X	X	X			X	X				Dragonhunter
10	<i>Lanithus vernalis</i>	T1	X	X	X	S2												Southern Pygmy Clubtail
11	<i>Progomphus obscurus</i>	T2	X	X	X	S3			X	X	X	X	X	X				Common Sanddragon
12	<i>Stylogomphus albistylus</i>	T2	X				X		X	X								Least Clubtail
13	<i>Stylurus laurae</i>	T1		X		S2S3				X								Laura's Clubtail
14	<i>Stylurus plagiatus</i>	T2	X		X	S3	X			X	X	X	X	X				Russet-tipped Clubtail
15	<i>Stylurus spiniceps</i>	T2	X			S3	X										X	Arrow Clubtail
16	<i>Aeshna tuberculifera</i>	T1	X			S2				X								Black-tipped Darner
17	<i>Aeshna umbrosa</i>		X				X							X				Shadow Darner
18	<i>Aeshna verticalis</i>	T2	X			S2												Green-striped Darner
19	<i>Anax junius</i>		X	X	X		X	X	X	X	X	X	X	X	X	X	X	Common Green Darner
20	<i>Anax longipes</i>		X	X	X		X	X	X	X	X	X	X	X	X	S		Comet Darner
21	<i>Basiaeschna janata</i>		X	X	X	S3	X	X	X	X	X	X	X	X	X			Springtime Darner
22	<i>Boyeria vinosa</i>	T3	X	X	X		X	X	X	X	X	X	X	X		S		Fawn Darner
23	<i>Coryphaeschna ingers</i>	U				U											X	Regal Darner
24	<i>Epiaeschna heros</i>		X	X	X		X	X	X	X	X	X	X	X	X	X	X	Swamp Darner
25	<i>Gomphaeschna antilope</i>	T1	X		X	S2				X			X	X				Taper-tailed Darner
26	<i>Gomphaeschna furcillata</i>	T2	X	X	X	S3S4	X	X	X	X	X	X	X	X			X	Harlequin Darner

Checklist of Zygoptera and Anisoptera (Odonata) Known from Delmarva

GENUS	SPECIES	DF Rank	New Castle	Kent	Sussex	MD Rank	Cecil	Kent	Queen Annes	Caroline	Talbot	Dorchester	Wicomico	Worcester	Somerset	Accomack	Northampton	COMMON NAME
27	<i>Gynacantha nervosa</i>	U	X	X		U	X	X		X			X					Twilight Darner
28	<i>Nasiaeschna pentacantha</i>		X	X	X	S1								X				Cyano Darner
29	<i>Rhionaeschna mutata</i>	T1	X			S3												Spadderock Darner
30	<i>Cordulegaster bilineata</i>	T1	X			S3S4			X					X		X		Brown Spiketail
31	<i>Cordulegaster diastatops</i>	T2	X		X	S3												Delta-spotted Spiketail
32	<i>Cordulegaster erronea</i>	T1	X				X			X								Tiger Spiketail
33	<i>Cordulegaster maculata</i>	T3	X	X	X		X		X	X	X			X				Twin-spotted Spiketail
34	<i>Cordulegaster obliqua</i>	U	X			S2		X		X								Arrowhead Spiketail
35	<i>Didymops transversa</i>	T3	X	X	X			X	X	X			X	X				Stream Cruiser
36	<i>Macromia georgiana</i>	U	X	X	X	S3S4			X	X	X		X	X				Georgia River Cruiser
37	<i>Macromia illinoensis</i>	T2	X				X											Illinois River Cruiser
38	<i>Macromia taeniolata</i>	T2	X	X	X	S3				X			X	X		X		Royal River Cruiser
39	<i>Dorocordulia lepida</i>	U	?			SH												Petite Emerald
40	<i>Epitheca costalis</i>	T2	X		X	S1	X		X									Striped-wing Baskettail
41	<i>Epitheca cynosura</i>		X	X	X		X		X	X	X		X	X				Common Baskettail
42	<i>Epitheca princeps</i>		X		X		X		X	X	X				X			Prince Baskettail
43	<i>Epitheca semiaquea</i>	U			?	SH												Mantled Baskettail
44	<i>Epitheca spinosa</i>	T1			X	S1S2				X				X				Robust Baskettail
45	<i>Helocordulia selysii</i>	T1			X	S2				X								Sely's Sundragon
46	<i>Neurocordulia obsoleta</i>	T2			X	S3	X		X	X								Umber Shadowdragon
47	<i>Neurocordulia yamaskanens</i>	U				S3	X											Stygian Shadowdragon
48	<i>Somatochlora filosa</i>	T2	X	X	X	S2	X	X		X		X	X	X				Fine-lined Emerald
49	<i>Somatochlora georgiana</i>	U				S1				X			X	X				Coppery Emerald
50	<i>Somatochlora linearis</i>	T3	X	X	X	S3S4	X	X		X			X	X	X			Mocha Emerald
51	<i>Somatochlora provocans</i>	T1			X	S1				X								Treetop Emerald
52	<i>Somatochlora fenebrosa</i>	T3	X	X	X		X		X	X								Clamp-tipped Emerald
53	<i>Brachymeria gravaida</i>	T2	X	X	X	S3S4		X	X			X	X	X		X	X	Four-spotted Pennant
54	<i>Celithemis elisa</i>		X	X	X		X	X	X	X	X		X	X	X			Calico Pennant
55	<i>Celithemis eponina</i>		X	X	X		X	X	X	X	X		X	X	X			Halloween Pennant
56	<i>Celithemis fasciata</i>	U		X	X	S3				X			X	X				Banded Pennant
57	<i>Celithemis martha</i>	U	X		X	S1								X				Martha's Pennant
58	<i>Celithemis verna</i>	T2	X		X	S2	X		X	X				X				Double-ringed Pennant
59	<i>Erythemis simplicicollis</i>		X	X	X		X	X	X	X	X		X	X	X		X	Eastern Pondhawk
60	<i>Erythrodiplax berenice</i>		X	X	X		X	X	X	X	X		X	X	X		X	Seaside Dragonet
61	<i>Erythrodiplax minuscula</i>	T2	X			S1				X								Little Blue Dragonlet

Distribution of Jewelwings, and Spreadwings among Delmarva Counties



Calopteryx dimidiata
Sparkling Jewelwing



Calopteryx maculata
Ebony Jewelwing



Hetaerina americana
American Ruby Spot



Archilestes grandis
Great Spreadwing



Lestes australis
Southern Spreadwing



Lestes congener
Spotted Spreadwing



Lestes eurinus
Amber-winged Spreadwing



Lestes forcipatus
Sweetflag Spreadwing



Lestes inaequalis
Elegant Spreadwing



Lestes rectangularis
Slender Spreadwing



Lestes vigilax
Swamp Spreadwing



Amphigrion saucium
Eastern Red Damselfly



Chromagrion conditum
Aurora Damselfly



Telebasis byersi
Duckweed Firetail

Distribution of Dancers and Forktails among Delmarva Counties



Argia apicalis
Blue-fronted dancer



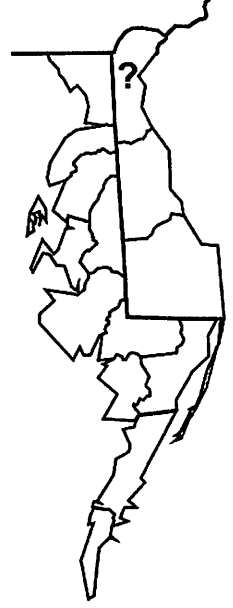
Argia bipunctulata
Seepage dancer



Argia fumipennis violacea
Variable dancer



Argia moesta
Powdered dancer



Argia sedula
Blue-ringed dancer



Argia tibialis
Blue-tipped dancer



Argia translata
Dusky dancer



Ischnura hastata
Citrine forktail



Ischnura kellicottii
Lilypad forktail



Ischnura posita
Fragile forktail



Ischnura prognata
Furtive forktail



Ischnura ramburii
Rambur's forktail



Ischnura verticalis
Eastern forktail



Nehalennia gracilis
Sphagnum sprite



Nehalennia integricollis
Southern sprite

Distribution of Bluets among Delmarva Counties



Enallagma aspersum
Azure Bluet



Enallagma basidens
Double-striped Bluet



Enallagma civile
Familiar Bluet



Enallagma daeckii
Attenuated Bluet



Enallagma divergens
Turquoise Bluet



Enallagma doubledayi
Atlantic Bluet



Enallagma dubium
Burgundy Bluet



Enallagma durum
Big Bluet



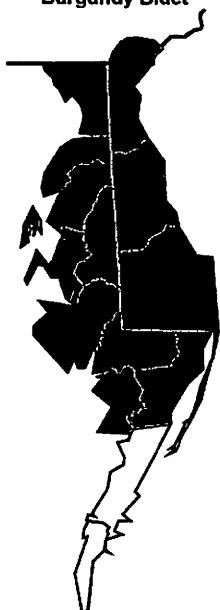
Enallagma exsulans
Stream Bluet



Enallagma geminatum
Skimming Bluet



Enallagma pallidum
Pale Bluet



Enallagma signatum
Orange Bluet



Enallagma traviatum
Slender Bluet



Enallagma vesperum
Vesper Bluet



Enallagma weewa
Blackwater Bluet

Distribution of Petaltails and Darners among Delmarva Counties



Tachopteryx thoreyi
Gray Petaltail



Rhionaeschna mutata
Spatterdock Darner



Aeshna tuberculifera
Black-tipped Darner



Aeshna umbrosa
Shadow Darner



Aeshna verticalis
Green-striped Darner



Anax junius
Common Green Darner



Anax longipes
Comet Darner



Basiaeschna janata
Springtime Darner



Boyeria vinosa
Fawn Darner



Coryphaeschna ingens
Regal darner



Epiaeschna heros
Swamp Darner



Gomphaeschna antilope
Taper-tailed Darner



Gomphaeschna fuscillata
Harlequin Darner



Gynacantha nervosa
Twilight Darner



Nasiaeschna pentacantha
Cyrano Darner

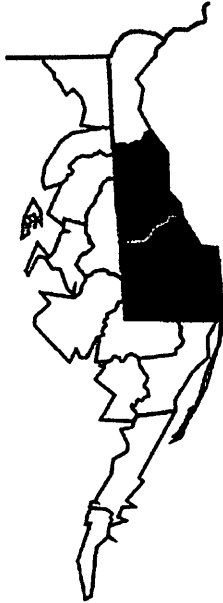
Distribution of Clubtails among Delmarva Counties



Arigomphus villosipes
Unicorn Clubtail



Dromogomphus spinosus
Black-shouldered Spinylegs



Hylogomphus apomyius
Banner Clubtail



Phanogomphus exilis
Lancet Clubtail



Gomphurus fraternus
Midland Clubtail



Phanogomphus lividus
Ashy Clubtail



Stenogomphus rogersi
Sable Clubtail



Hagenius brevitylus
Dragonhunter



Lanithus vernalis
Southern Pygmy Clubtail



Ophiogomphus incurvatus
Appalachian Clubtail



Frogomphus obscurus
Common Sanddragon



Stylogomphus albistylus
Eastern Least Clubtail



Stylurus laurae
Laura's Clubtail



Stylurus plagiatus
Russet-tipped Clubtail



Stylurus spiniceps
Arrow Clubtail

Distribution of Spiketails, Cruisers, and Baskettails among Delmarva Counties



Cordulegaster bilineata
Brown Spiketail



Cordulegaster diastatops
Delta-spotted Spiketail



Cordulegaster erronea
Tiger Spiketail



Cordulegaster maculata
Twin-spotted Spiketail



Cordulegaster obliqua
Arrowhead Spiketail



Didymops transversa
Stream Cruiser



Macromia i. georgina
Georgia River Cruiser



Macromia i. illinoensis
Illinois River Cruiser



Macromia taeniolata
Royal River Cruiser



Dorocordulia lepida
Petite Emerald



Epiheca costalis
Slender Baskettail



Epiheca cynosura
Common Baskettail



Epiheca princeps
Prince Baskettail



Epiheca semiaquea
Mantled Baskettail



Epiheca spinosa
Robust Baskettail

Distribution of Emeralds (in part) and Skimmers (in part) among Delmarva Counties



Helocordulia selysi
Selys's Sundragon



Neurocordulia obsoleta
Amber Shadowdragon



Neurocordulia yamaskanensis
Stygian Shadowdragon



Somatochlora filosa
Fine-lined Emerald



Somatochlora georgina
Coppery Emerald



Somatochlora linearis
Mocha Emerald



Somatochlora provocans
Treetop Emerald



Somatochlora tenebrosa
Clamp-tipped Emerald



Brachymesia gravida
Four-spotted Pennant



Celithemis elisa
Calico Pennant



Celithemis eponina
Halloween Pennant



Celithemis fasciata
Banded Pennant



Celithemis martha
Martha's Pennant



Celithemis verna
Double-ringed Pennant



Erythemis simplicicollis
Eastern Pondhawk



Erythrodiplax berenice
Seaside Dragonlet



Erythrodiplax minuscula
Little Blue Dragonlet



Ladona deplanata
Blue Corporal

Distribution of Skimmers (in part) among Delmarva Counties



Leucorrhinia intacta
Dot-tailed Whiteface



Libellula auripennis
Golden-winged Skimmer



Libellula axilena
Bar-winged Skimmer



Libellula cyanea
Spangled Skimmer



Libellula flavida
Yellow-sided Skimmer



Libellula incesta
Slaty Skimmer



Libellula luctuosa
Widow Skimmer



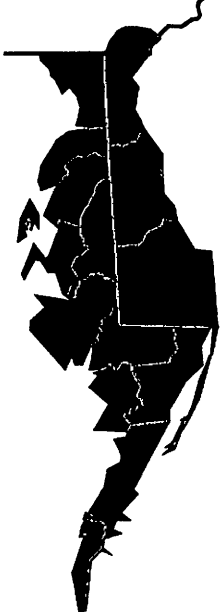
Libellula needhami
Needham's Skimmer



Libellula pulchella
Twelve-spotted Skimmer



Libellula semifasciata
Painted Skimmer



Libellula vibrans
Great Blue Skimmer



Nannothemis bella
Elfin Skimmer



Orthemis ferruginea
Roseate Skimmer



Pachydiplax longipennis
Blue Dasher



Pantala flavescens
Wandering Glider

Distribution of Skimmer (in part 2) among Delmarva Counties



Pantala hymenaea
Spot-winged Glider



Perithemis tenera
Eastern Amberwing



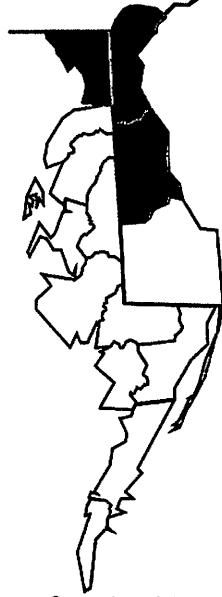
Plathemis lydia
Common Whitetail



Sympetrum ambiguuum
Blue-faced Meadowhawk



Sympetrum corruptum
Variegated Meadowhawk



Sympetrum internum
Cherry-faced Meadowhawk



Sympetrum rubicundulum
Ruby Meadowhawk



Sempetrum semicinctum
Banded Meadowhawk



Sympetrum vicinum
Autumn Meadowhawk



Tramea calverti
Striped Saddlebags



Tramea carolina
Carolina Saddlebags



Tramea lacerata
Black Saddlebags



Tramea onusta
Red Saddlebags



Macrodiplax balteata
Marl Pennant