Common Ohio Pond Damselflies Dancers, Bluets, Forktails

Argia, Enallagma, Ischnura

Odo-Con-18

Dancers, Bluets, Forktails
Pond Damselflies
Coenagrionidae
Looking at 2017 survey







- These Damsels (Dancers, Forktails, Bluets) are some of my favorites
- They are misnamed as Damsels –
 they would more appropriately be Demonflies or Midge's Bane
- They are voracious predators
- They are pervasive in small to moderate sized aquatic environments
 - some are riverine
 - some are niche organisms
 - several are amongst our most widespread Odonates
- They are very precise fliers they glean and land!

Not discussing Spreadwings, Jewelwings, Rubyspots, Damsels, Sprites



Major groups of Ohio Pond Damsels

- 3 Genera
- 23 species observed in 2017 (21 of the 23 in 2017)
- Dancers Argia, 818 Observations, 7 sp *
- Bluets Enallagma, 966 Observations, 12 sp
- Forktails Ischnura, 779 Observations, 4 sp

Blue-fronted Dancer	213	Azure Bluet	81
Blue-ringed Dancer	116	Double-striped Bluet	176
Blue-tipped Dancer	98	Familiar Bluet	181
Dusky Dancer	68	Northern Bluet	1
Powdered Dancer	71	Orange Bluet	175
Seepage Dancer	35	Rainbow Bluet	7
Violet Dancer	217	Skimming Bluet	132
Citrine Forktail Eastern Forktail Fragile Forktail Lilypad Forktail	45 421 296 17	Stream Bluet Tule Bluet Turquoise Bluet Vesper Bluet Westfall's Slender Bluet	115 20 5 31 42

Historically, 26 species, or an additional 3 species, have been recorded in Ohio more than twice for these *Enallagma*:

- Hagen's Bluet E hageni (62 2015) *
- Marsh Bluet E ebrium (56 2015)
- Boreal Bluet E boreale (41 1995)

E ebrium and E boreale are State-listed as Threatened species

There are 4 species that have only a few Ohio records:

- Furtive Forktail I prognata (2 Marion Co, 1959)
- River Bluet E anna (2 Hancock Co, 2016)
- Atlantic Bluet E doubledayi (1 Franklin Co, 1897)
- Rambur's Forktail I ramburii (1 Summit Co, 2016)

Except for River (we think), the others are accidental

So, 23 + 3 + 4:

That gets us up to the recorded **30 species** in these genera.

What do we need to know?

- Morphology
 - Head eyes, eyespots, bar
 - Wings venation, stigma, length
 - Thorax shoulder-stripe, pigmentation
 - Abdomen pigmentation
 End bits ovipositor, claspers
- o Habit
 - These are needle-like predators of flying insects
 - They typically fly low to the ground, in and out of vegetation
 - Commonly near water

Head

Wings









Thorax

























Abdomen



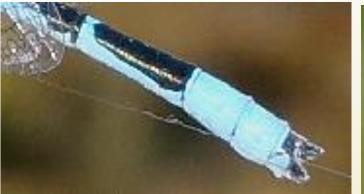














Abdomen



Abdomen











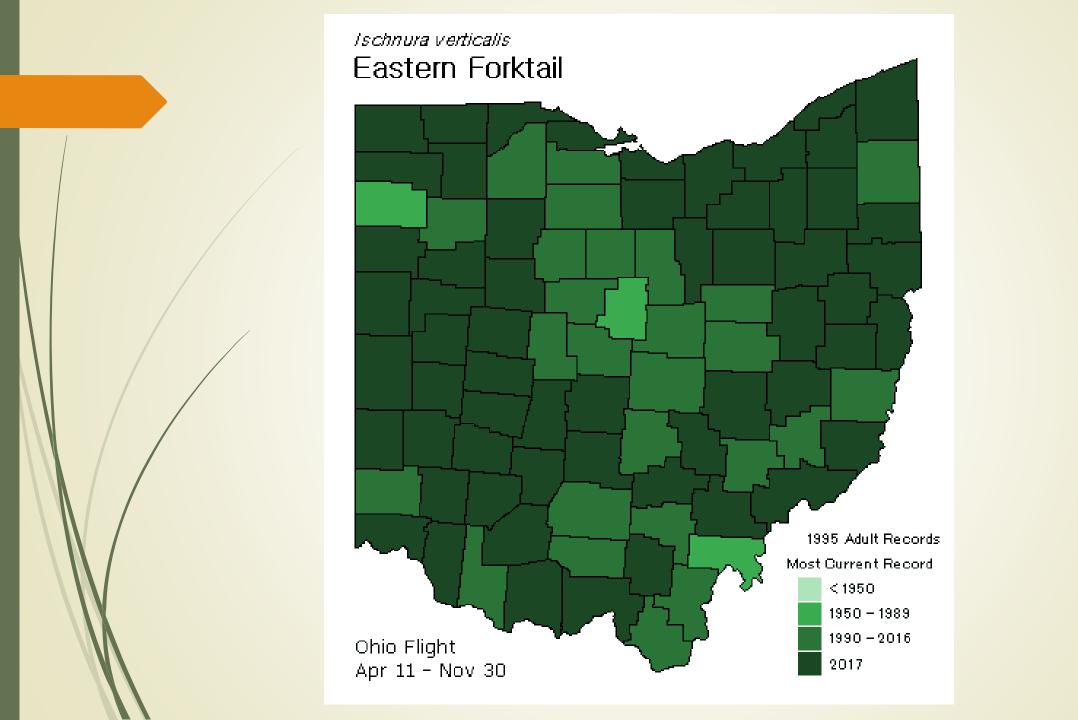
Let's look at easy things - Males

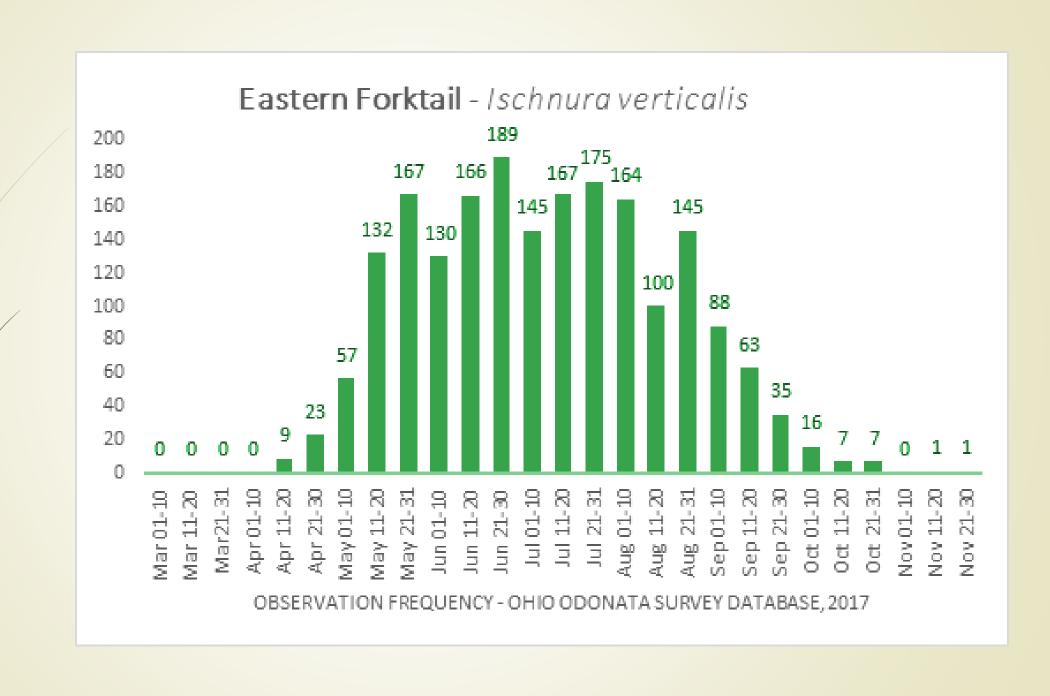
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Eastern Forktail – 421 - #2
Fragile Forktail – 296 - #6
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- Violet Dancer 217 #8
- Blue-fronted Dancer 213 #9
- Familiar Bluet 181- #11
- Double-striped Bluet 176 #13
- Orange Bluet 175 #14

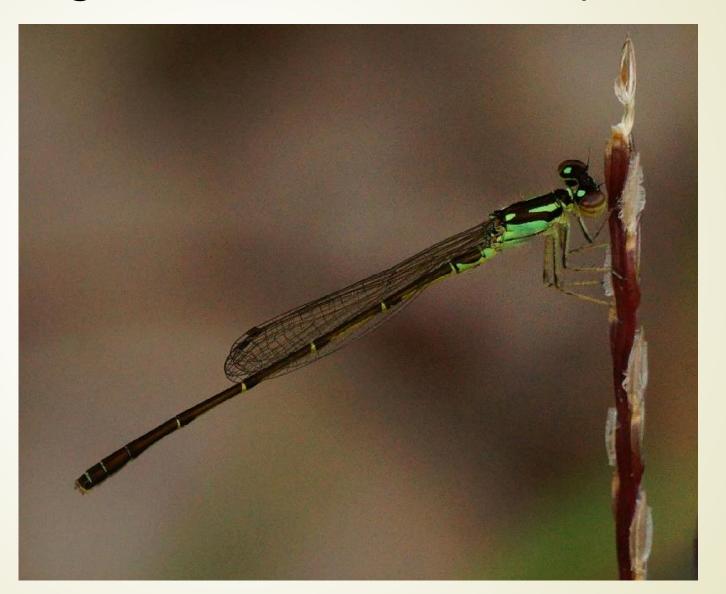
Eastern Forktail – Ischnura verticalis

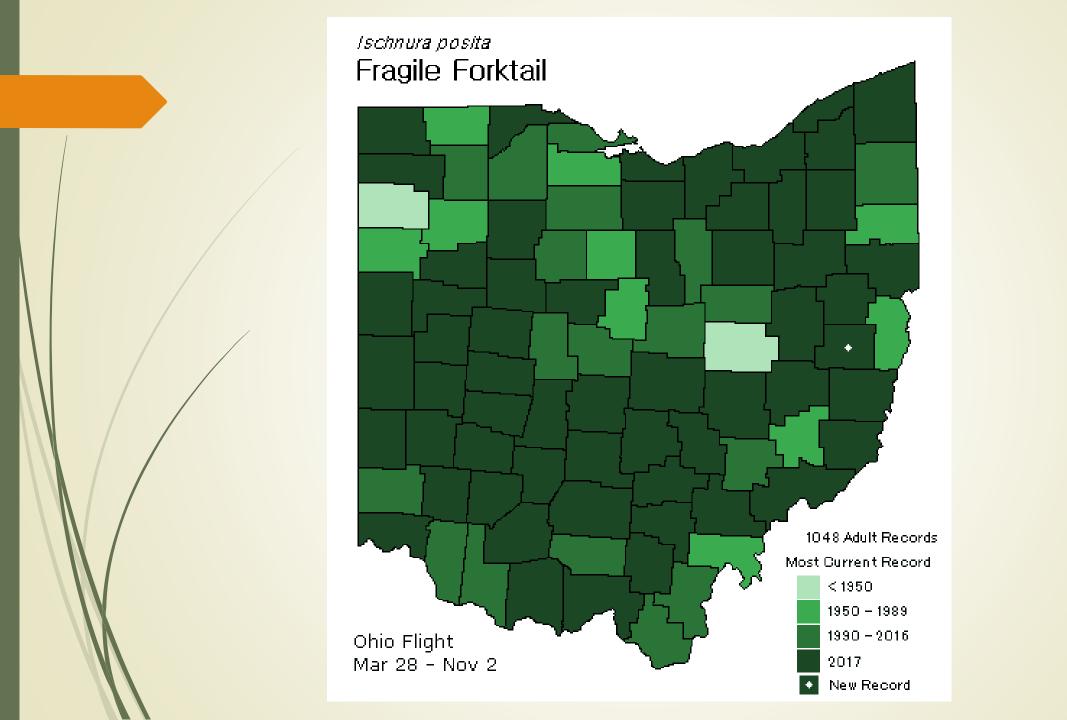


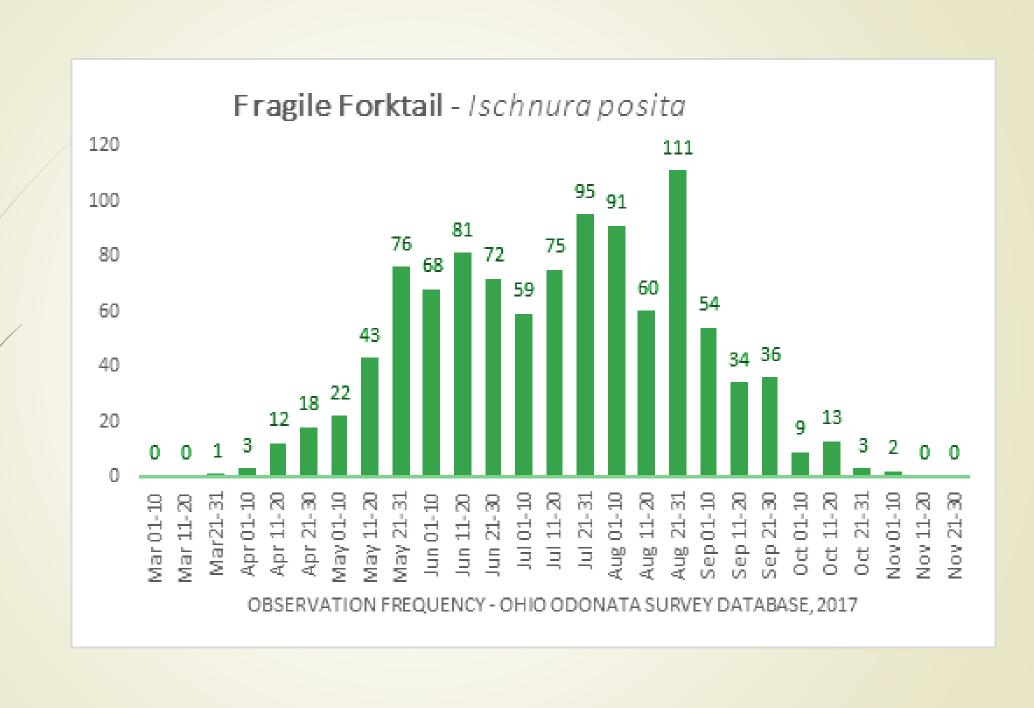




Fragile Forktail – Ischnura posita

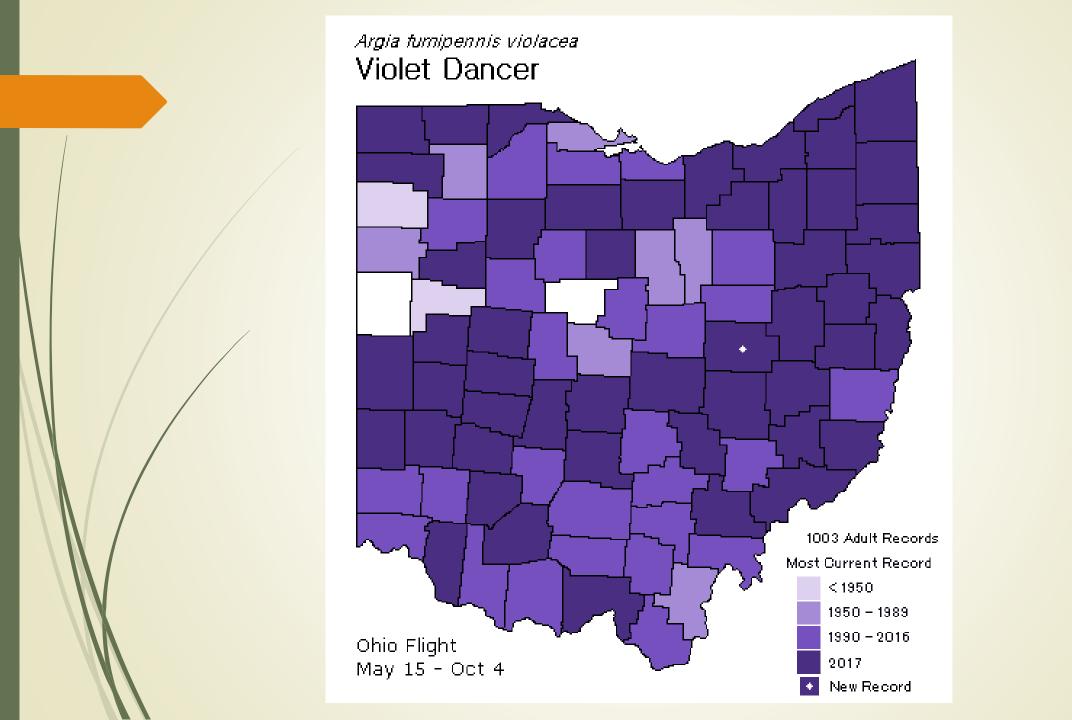


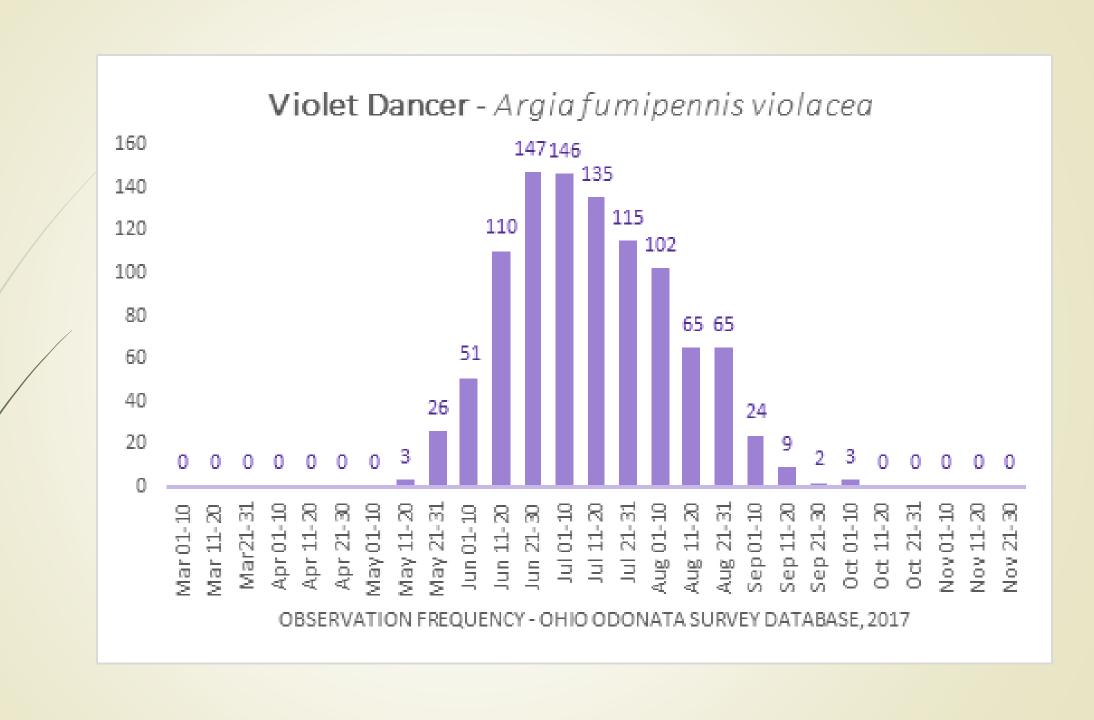




Violet Dancer – Argia fumipennis violacea

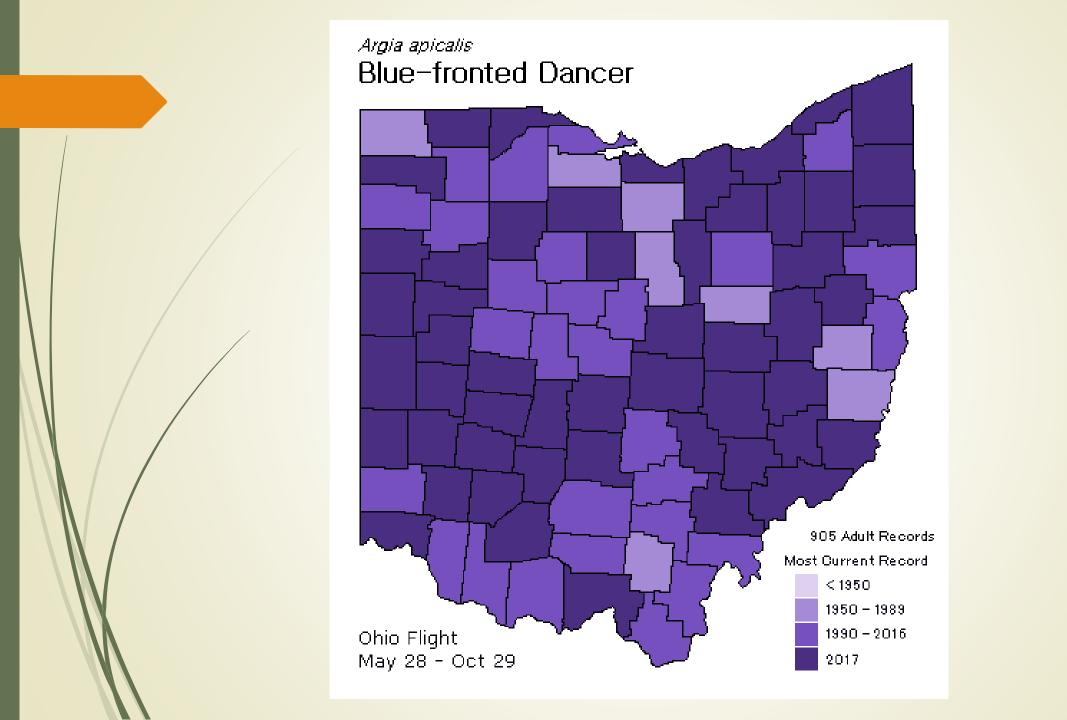


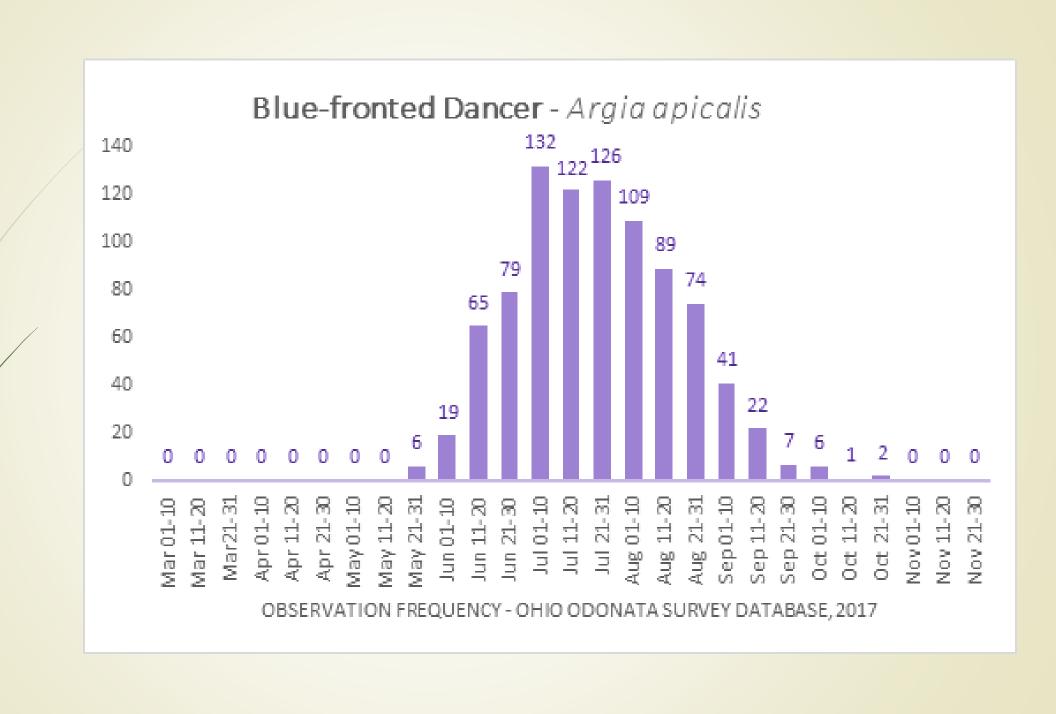




Blue-fronted Dancer – Argia apicalis

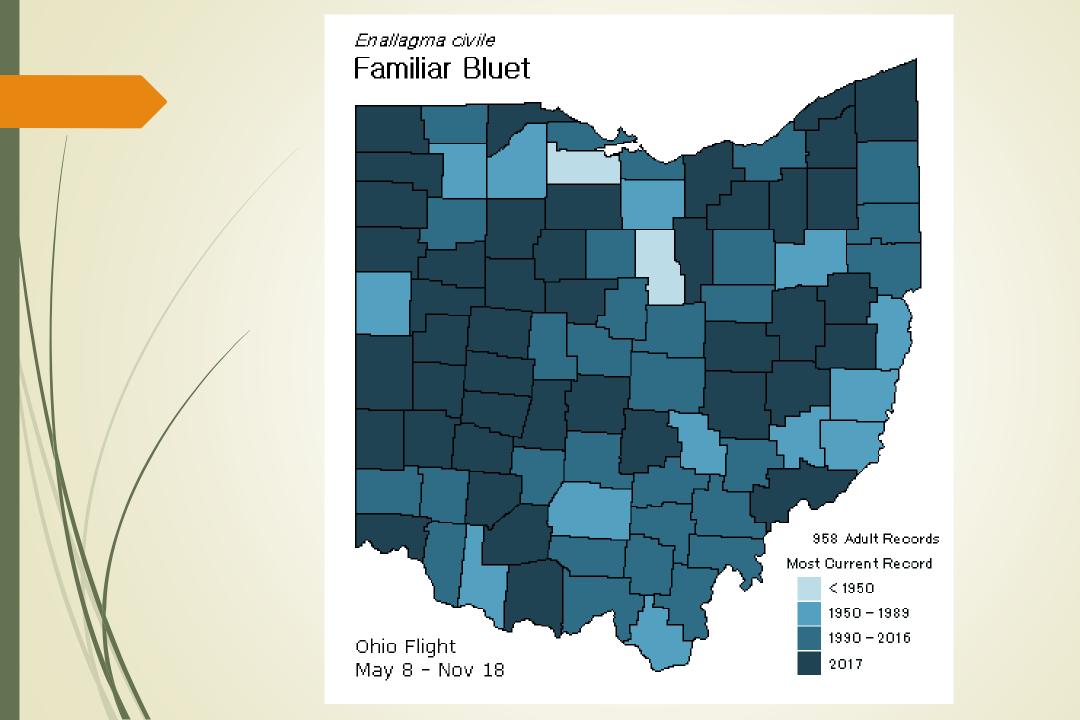


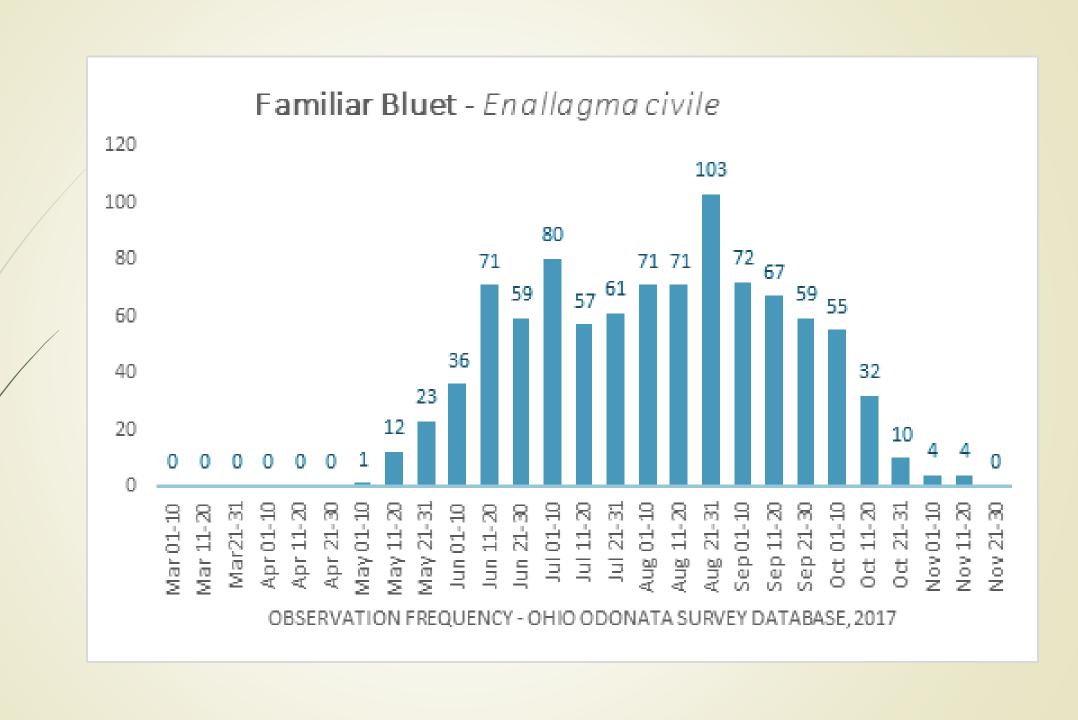




Familiar Bluet – Enallagma civile

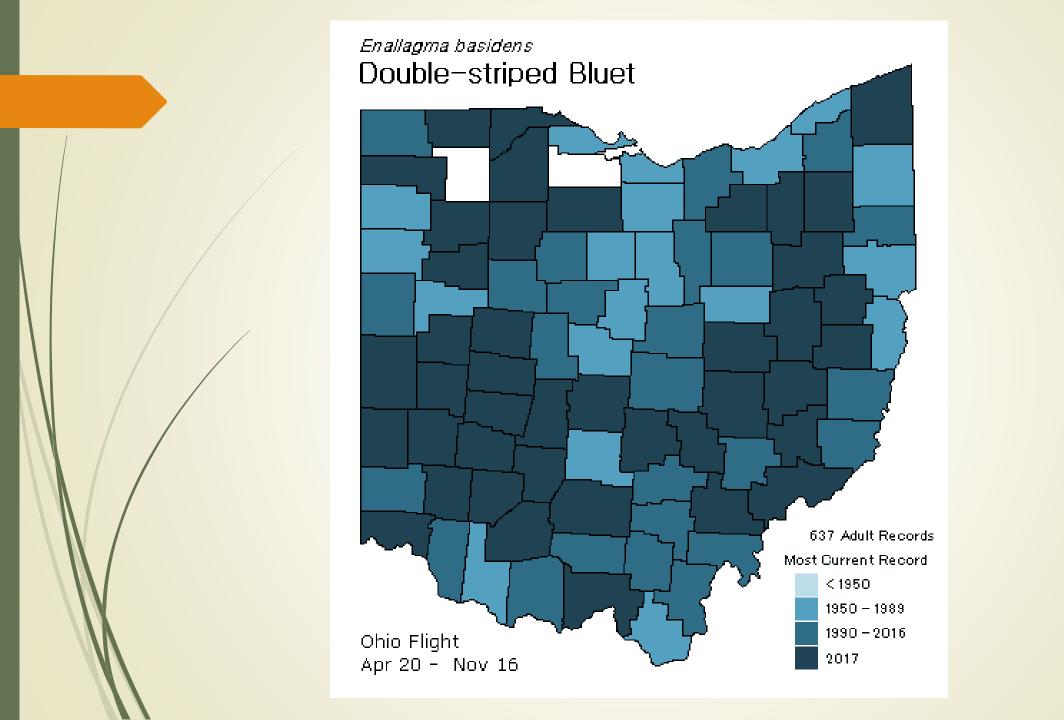


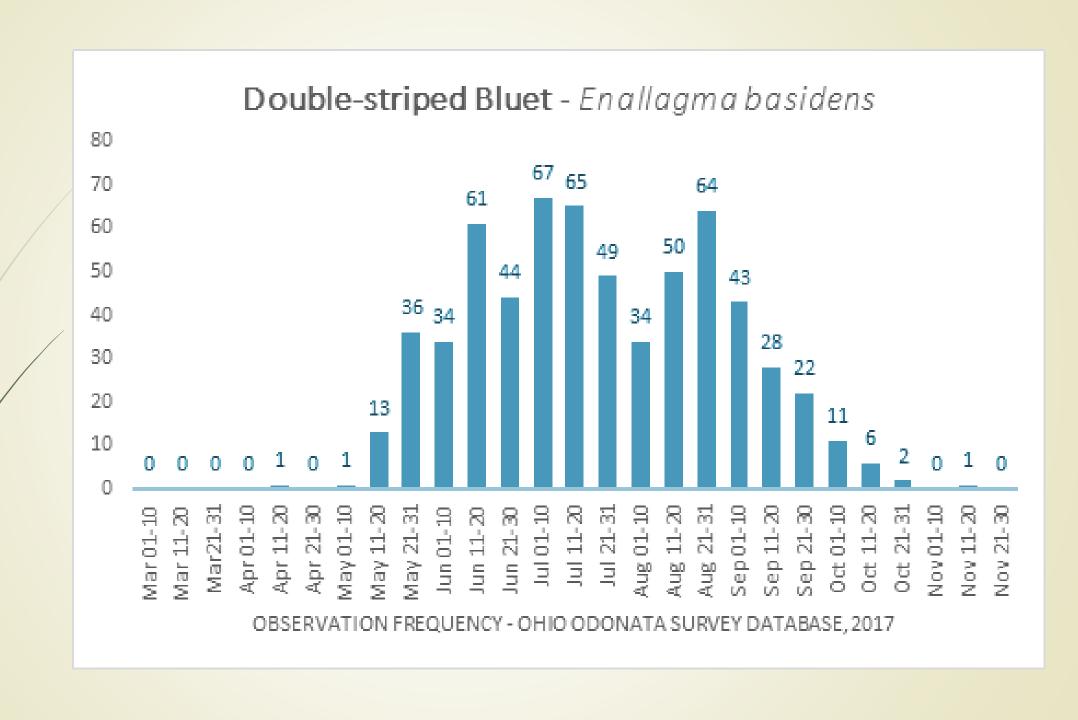




Double-striped Bluet – Enallagma basidens

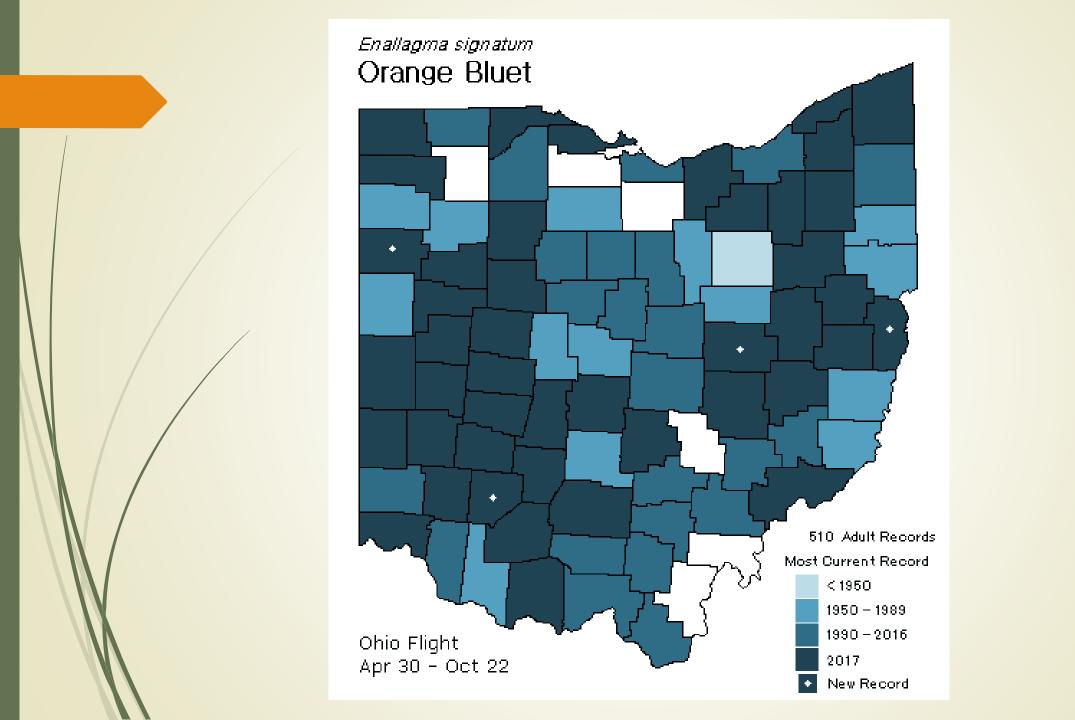


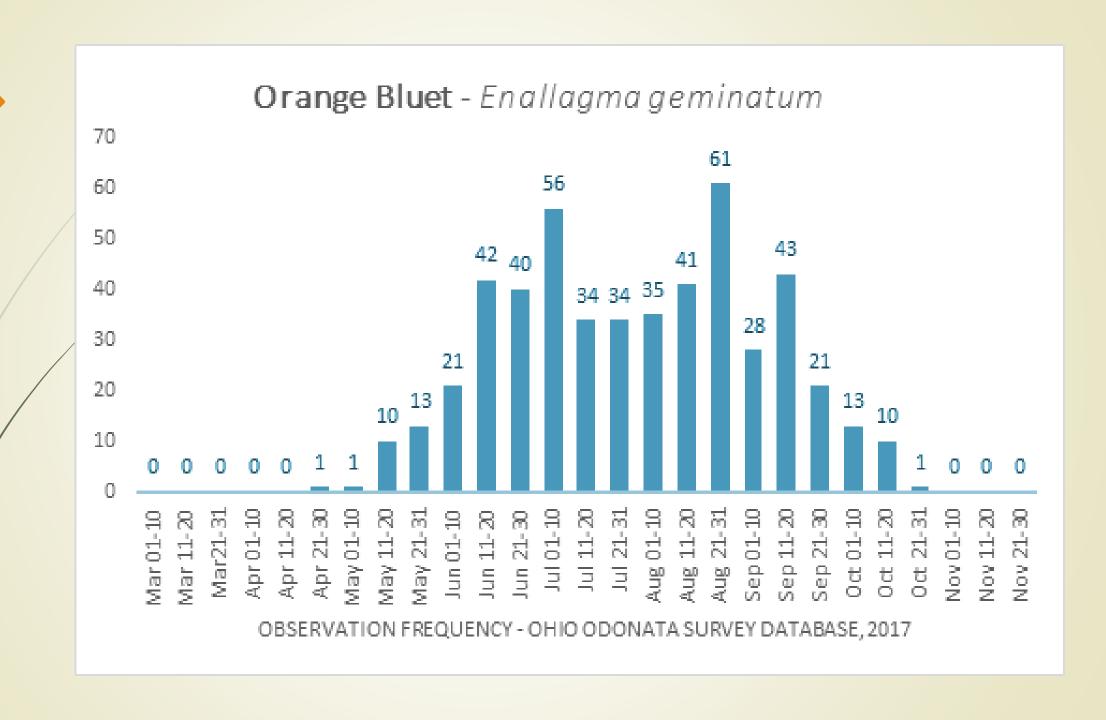




Orange Bluet – Enallagma signatum







So what's the issue?

- Sexually dimorphic including mimics of opposite sex -
- Teneral/Immature
- Developmental change in color
- and pigmentation
- Wide color range in females for some species
- Can be considerable overlap in appearance of females in the same genus
- Phenotypic variation

iNat - unresolved Damselfly observations typically a female in some early stage of maturation















Not so easy - Females

- Less colorful not really cryptic, just less noticeable (males are expendable)
- Ovipositor at the terminal end of abdomen anatomy has to match male optimized to place eggs in preferred location
- Typically spend less time at water
 forage away from water
 arrive at rendezvous with egg clutch
- A good clue Which species of males are flying?
- Tandem is a pretty good sign

Tandem





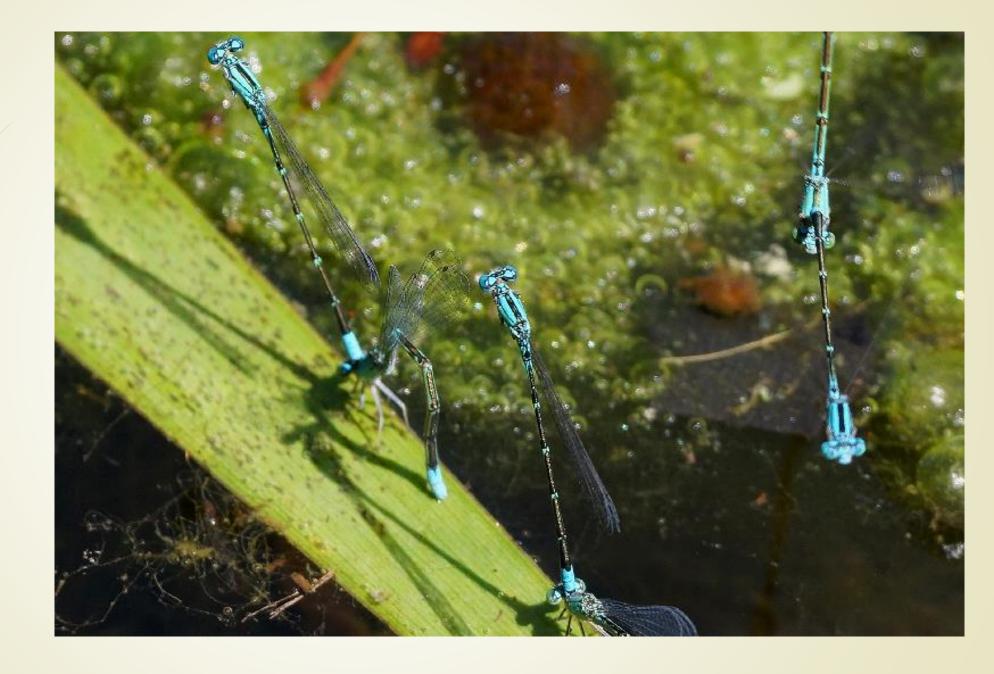
Ovipositing







Ovipositing





Dancers - 7 species*, all can be seen

- Relatively larger than other two genus'
- Wings are held above the abdomen at rest
- Wings tend to appear to be relatively wider
- Long slender spines on tibia
- Will perch on the ground unlike other discussed genus'

Jul 28, 2015















Bluets – 15 species

- Wings cover the abdomen at rest
- Eye spots are important in ID
- Mature males can be broken up into 3 groups based on abdominal pigmentation:
 - mostly blue (Familiar, Double-striped)
 - mostly black (Skimming, Stream, Azure, Westfall's Slender, Turquoise)
 - in-between (Tule)
 - non-blue (Orange, Vesper)
 - unique (Rainbow)

Bluets

Learn the field marks

Double-striped - aptly named - stripe on thorax Skimming - unique pattern on S2 Azure - only Bluet with pigmentation on S7-S9 Orange, Vesper, Rainbow – colors Western Slender – Eyespots Stream – S8, S9 pattern

- Understand you may need to net some individuals for ID
- We want 2018 records for Hagen's, Marsh, and Boreal!









Forktail - 4 species

2 are amongst our most common Odonates 3rd (Citrine) readily observable the 4th (Lilypad) can be found

- Wings tend to appear to be relatively shorter
- We're looking for Lilypad Forktail characteristic pose on lilypad
- Citrine stigma unique

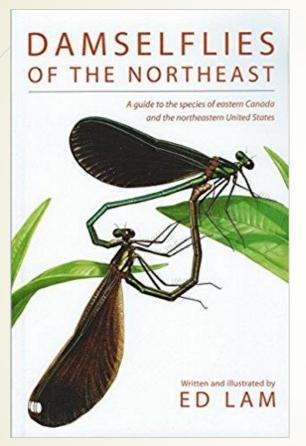
Forktail

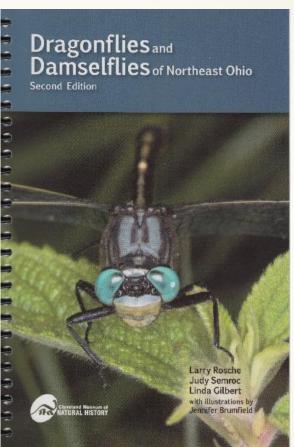












The Dragonflies and Damselflies of Ohio



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