

Newsletter of the Ohio Odonata Society

Ohio Dragon Flyer



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Contents

1. Got Spreadwings? Continuing the ID series with authors Sally Isacco and Jim Lemon
2. Flight Photos – Focus Capture and Tracking. Jim Lundberg
3. September Odes – more goodbyes. Jim Lemon
4. September – October Late Flight Dates. Jim Lemon
5. 2022 Numbers To-Date. Jim Lemon

Cover Photo: Russet-tipped Clubtail *Stylurus plagiatus*
Hamilton County, Ohio, 28 August 2022, Jim Lundberg
Canon R5, RF 100-500 @500mm, 1/1600, f/8.0, ISO 1600.

The Season so Far Jim Lemon jlem@woh.rr.com

August was good month, a bit behind 2019 numbers, but very good. So far on the year, we have over 28,000 research grade (RG) observations submitted to iNaturalist. This represents 134 species. The top reported species Blue Dasher, Eastern Pondhawk, Eastern Forktail, Common Whitetail, and Fragile Forktail.

August has nearly 5,000 research grade observations at this point. Eastern Pondhawk led species numbers with 500+ observations. Blue Dasher numbers (300+) are slowing as we reach the tail of their season. Eastern Amberwing, Eastern Forktail, Widow Skimmer, Common Whitetail, Fragile Forktail, and Blue-fronted Dancer all had over 200 observations in August.

Notable finds in August: Smoky Rubyspot, Elusive Clubtail, Arrow Clubtail, Lyre-tipped Spreadwing.

Hopeful species for September include other: Striped Saddlebags, Ocellated Darner, Variegated Meadowhawk.

Got Spreadwings? Sally Isacco disacco@roadrunner.com | Jim Lemon jlem@woh.rr.com

Ohio has eleven Spreadwing species. These eleven cover a range in size and a range of flight times from early to late. It is possible to ID Spreadwings from photos, but the ID may require some specific conditions. Spreadwings are damselflies, but having a charming habit of perching with wings more open than other damsels. They are most easily seen when flushed from shady foliage before quickly find a new perch. They are much less commonly seen over open water. Like most Odonata, Spreadwings change as they mature from teneral. Pruinescence occurs, generally, so maturation is a factor. The season is also a consideration. Our examples will be, pretty much, prime specimens. Many times, it's not possible to see the necessary attributes to vet photos to species.

Start with the two largest Spreadwings. They have distinctive markings making them among the easiest to ID.



Great Spreadwing *Archilestes grandis*. Big, nothing comparable. Over 2", up to 2 ½", larger than some dragonflies. They seem really large when first encountered. Prominent yellow stripe on thorax. Flies late summer, into Nov. Peak is mid-Sep. Seem to prefer slow moving water.

Great Spreadwing, Male, Lucas Co, Oct 7, 2016, Rick Nirschl. Big and bold. Note yellow striped thorax.



Great Spreadwing, Female, Montgomery Co, Aug 4, 2021, Jim Lemon. Sheer size.

Great Spreadwing, Tandem pair, Cuyahoga Co, Sep 2, 2009, Sally Isacco. Yellow stripes.



Amber-winged Spreadwing *Lestes eurinus*. Amber wings, distinctive thoracic pattern. Can be over 2". Can fly in early May. Look for them at fishless waters (vernal pools, shallow marshy ponds).

Amber-winged Spreadwing, Male, Lake Co, Jul 4, 2018, Sally Isacco. Amber wings.

Amber-winged Spreadwing, Female, Champaign Co, May 29, 2016, Jim Lemon. Note the gold-tint to wings and thoracic pattern.



Amber-winged Spreadwing, Thorax detail, Champaign Co, Jun 1, 2020, Jim Lemon. Note the breaks in yellow pattern – this can disappear with pruinosity.

Amber-winged Spreadwing, Pair, Paulding Co, Jun 17, 2021, Jim Lemon.



The next three species are roughly equal in size, around two inches. These all seem to prefer shade.



Elegant Spreadwing *Lestes inaequalis*. Male has unique appendages. Clean line on break in lateral thoracic pattern. Peak in early Jun. Primarily observed in NE counties. Rim of ovipositor dark.

Elegant Spreadwing, Male, Geauga Co, Jun 16, 2020, Sally Isacco. Note appendages and clean line on thorax.

Elegant Spreadwing, Male appendages, Logan Co, Jun 16, 2015, Jim Lemon. Paraprocts extend beyond cerci.



Elegant Spreadwing, Female, Logan Co, Sep 3, 2019, Jim Lemon. Dark ovipositor, pale back of head and tibia.



Swamp Spreadwing *Lestes vigilax*. Peak flight in July. Most new recent County Records (19). Similar to Elegant Spreadwing, wider brown shoulder stripe. Narrow paraprocts for males. Pale ovipositor for females.

Swamp Spreadwing, Male, Geauga Co, Jul 27, 2018, Sally Isacco. Note long thin paraprocts.

Swamp Spreadwing, Male appendages, Champaign Co, Jun 9, 2016, Jim Lemon. Note long thin paraprocts.



Swamp Spreadwing, Female, Champaign Co, Jul 15, 2022, Jim Lemon. Note dark tibia and backside of the head, broad shoulder stripe.

Swamp Spreadwing, Pair, Lucas Co, Jul 3, 2015, Rick Nirschl.





Slender Spreadwing *Lestes rectangularis*. Our most common Spreadwing for Ohio. Slender is widespread – reported in every Ohio County. Males can be 2”. Nearly season-long flight. Distinct white wing fringe can be diagnostic when seen. Males are darker on S8-10 than most other Lestes. Female S9 shorter than ½ of S7.

Slender Spreadwing, Male, Mercer Co, Jun 18, 2022, Jim Lemon. Very long abdomen. White fringe on wing tips.



Slender Spreadwing, Male, Lake Co, Jul 11, 2018, Sally Isacco. Note wingtips.



Slender Spreadwing, Female, Clark Co, Aug 13, 2022, Jim Lemon. Short S9 relative to S7. Pale tibia.

Proceeding to the smaller challenging species. Most 1 1/2". Males mostly pruinose on S9-10 when mature.



Northern Emerald Spreadwing *Lestes dryas*. Stout, jewel-like. Peak in early Jun. As name indicates, more northerly, absent or much less common in southern counties.

Northern Emerald Spreadwing, Male, Lucas Co, June 12 2021, Rick Nirschl.

Northern Emerald Spreadwing Male, Lucas Co, Jun 20, 2020, Rick Nirschl.



Northern Emerald Spreadwing, Female, Wood Co, Jun 6, 2019, Jim Lemon. Stout abdomen. Brilliant green.



Lyre-tipped Spreadwing *Lestes unguiculatus*. Distinct male appendages. Female S9 longer than 1/2 of S7. Disappeared from most historical counties, observations from 34 counties prior to 2001 not repeated in last 20 years.

Lyre-tipped Spreadwing, Male, Lake Co, Jun 28, 2020, Sally Isacco. Note distinctive paraprocts.



Lyre-tipped Spreadwing, Female, Lucas Co, Jun 22, 2021, Rick Nirschl. Stocky, back of head pale.



Spotted Spreadwing *Lestes congener*. Thoracic markings can show two spots. Can be as small as 1 1/4". Flies into mid-Nov. Dark dorsal.

Spotted Spreadwing, Male, Geauga Co, Aug 30, 2019, Sally Isacco. Short paraprocts.



Spotted Spreadwing, Pair, Lucas Co, Oct 6, 2019, Rick Nirschl.



Spotted Spreadwing, Male appendages, Montgomery Co, Sep 9, 2017, Jim Lemon. Note short paraprocts.



Spotted Spreadwing, Male, Lake Co, Oct 7, 2021, Sally Isacco. Thoracic spots. Late flight date.



Sweetflag Spreadwing *Lestes forcipatus*. 1 1/2". Female ovipositor is unique. Male has thin paraprocts. Peak in July.

Sweetflag Spreadwing, Male, Lake Co, Aug 21, 2020, Sally Isacco. Single spot on the ventral thorax.

Sweetflag Spreadwing, Male, Montgomery Co, Aug 24, 2019, Jim Lemon. Note single spot on the ventral thorax.



Sweetflag Spreadwing, Male, Lucas Co, Jul 8, 2022, Rick Nirschl. Note the dark dorsal pigmentation.



Sweetflag Spreadwing, Female, Montgomery Co, Aug 24, 2019, Jim Lemon. Stout form, large ovipositor.



Sweetflag Spreadwing, Ovipositor, Montgomery Co, Aug 24, 2019, Jim Lemon. Extends beyond S10.



Sweetflag Spreadwing, Thorax, Montgomery Co, Aug 24, 2019, Jim Lemon. Single spot.

Sweetflag Spreadwing, Pair, Lucas Co, Jun 24, 2022, Rick Nirschl.



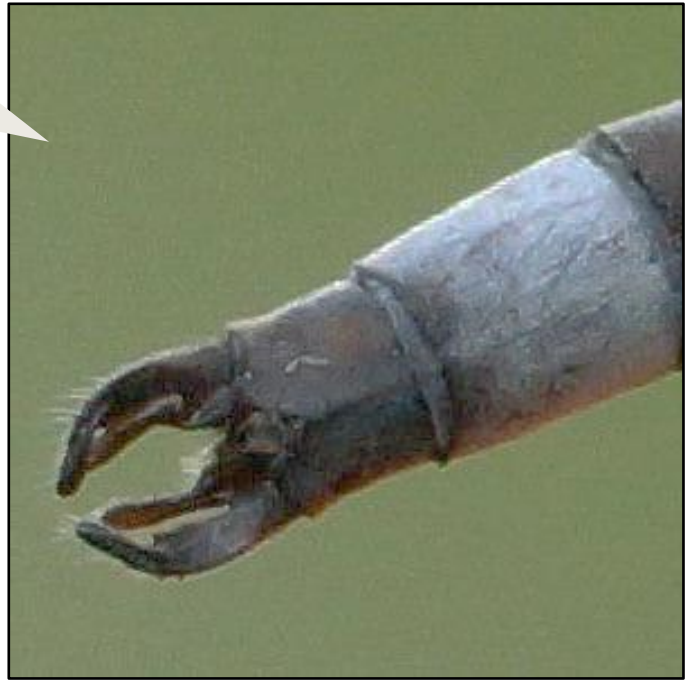
Sweetflag Spreadwing, Pair, Lake Co, Jul 4, 2021, Sally Isacco. Female distinctive based on ovipositor.



Southern Spreadwing *Lestes australis*. Early flyer, as early as second week of Apr. Ovipositor dark.

Southern Spreadwing, Male, Miami Co, May 2, 2018, Jim Lemon. Early flight date.

Southern Spreadwing, Male appendages, Hamilton Co, Jul 3, 2018, Jim Lemon. Note paraprocts are narrower in the middle. Note "tooth" on cerci.



Southern Spreadwing, Pair, Lake Co, Jul 11, 2018, Sally Isacco.



Southern Spreadwing, Pair, Lucas Co, May 26, 2015, Rick Nirschl.



Northern Spreadwing *Lestes disjunctus*. 1 ½".
 Uncommon, only two recent observations. Females can be distinct. Pale ovipositor, no spots on thorax. Distinct cerci. Pale shoulder stripes.

Northern Spreadwing, Male, Highland Co, May 24, 2018, Rick Asamoto

Northern Spreadwing, Female, Williams Co, Jun 28, 2022, Jim Lemon. Dark dorsal, pale shoulder stripes.



Northern Spreadwing, Thorax, Williams Co, Jun 28, 2022, Jim Lemon. Clear lateral.



Northern Spreadwing, Ovipositor, Williams Co, Jun 28, 2022, Jim Lemon. Pale.



Flight Photos – Focus Capture and Tracking Jim Lundberg

Focus Tracking: Known as AI Servo (Canon), C-AF (Olympus), AF-S (Nikon) or Tracking (Sony), after focus capture, the camera continuously adjusts focus on the moving subject as long as you hold down the focusing button. Focus Tracking is the AF mode to use for flight photos. For still subjects, use Single Shot Focus.

Phase Detection versus Contrast Detection: Phase detection is considered to be faster at tracking moving subjects since it doesn't require as much computational work from your camera. Contrast Detection is considered to be more precise for stills and in low light. If your camera offers both focus technologies, use Phase Detection for flight photos and Contrast Detection for stills.

Subject Contrast and Focus Distraction: When there is insufficient contrast between subject and background, the camera will "hunt" for focus. When the background is "busy" the camera will continually focus on the wrong points of high contrast. These are two frustrating issues that can sometimes be resolved by physically moving to change the background (Move to the opposite side of the pond. Get the sun at your back. Etc.).

Area Focus versus Spot Focus: Determines what part of the field of view is targeted by auto-focus. Area Focus, variously called Zone AF, Cluster AF or Group Area AF depending on camera maker, uses a larger portion of the field of view to find auto-focus. Area focus can increase capture rates on dragonflies moving quickly across the field of view. If the subject is well-contrasted against a clear sky or monotone body of water, use the full auto-focus area available. If not, then narrowing the focus area may help. Unless the dragonfly is very distant and flying slowly, flight photo photographers will have little success placing the spot or single focus point over the subject, and it may be difficult for the camera to find focus contrast within a small focus point., so a small cluster area of focus, a compromise between point and the entire view may be in order.

Pre-focus: If subject contrast is good, but the camera still has difficulty capturing focus, try pre-focusing the lens near the distance of the subject. You can do this manually or with autofocus targeted at a high contrast area the same distance as the subject. If the dragonfly patrol is predictable or habitual, you can pre-focus at the point where you will want to capture the image. It should lock on quicker.

Lens Focal Distance Limit Settings. Many telephoto lenses have two or three Focus Distance Limit settings. The camera will focus faster if it doesn't focus through the full lens range. If the dragonfly is distant, then use the distant focus setting. Remember to return to full when done.

High-speed Continuous, Low-speed Continuous or Single Shot: Even with tracking locked on, some images will be slightly out of focus as the focus motors try to keep up with your fast and erratic subject. Via sheer numbers, High-speed Continuous will capture more focused images than Low-speed Continuous which, in turn, will capture more than Single Shot. But, before deciding on High Speed Continuous for flight photos, consider camera processing speed, memory card storage, shutter life (for DSLR cameras) and whether you have the time and patience to work through hundreds, even thousands, of images. You might decide that Low Speed Continuous is sufficient for flight photos and Single Shot for stills.

September Odes – More Goodbyes Jim Lemon jlem@woh.rr.com

Seeing fewer Odes. At this point, no new arrivals. The data show we are also past the late flight dates for 58 species as of September 1st. 29 additional species are usually finished by the end of September.

Here's the set of species that were likely done for this season in August, and the list for September departures. Observations beyond the late date listed will constitute new late flight dates.

Species	Late	Observations All Data	Recent Years
Dot-tailed Whiteface	1-Aug	895	539
Arrowhead Spiketail	1-Aug	132	68
Painted Skimmer	9-Aug	657	425
Eastern Least Clubtail	9-Aug	160	95
Midland Clubtail	10-Aug	570	280
Pronghorn Clubtail	10-Aug	350	123
Skillet Clubtail	11-Aug	26	1
Brush-tipped Emerald	12-Aug	15	2
Plains Clubtail	14-Aug	139	98
Turquoise Bluet	15-Aug	443	345
Northern Emerald Spreadwing	16-Aug	280	180
Smoky Shadowdragon	17-Aug	17	3
Cobra Clubtail	19-Aug	265	140
River Jewelwing	20-Aug	65	33
Northern Spreadwing	20-Aug	22	1
Stream Cruiser	21-Aug	78	22
Gray Petaltail	22-Aug	282	161
Rusty Snaketail	22-Aug	98	35
Cyrano Darner	23-Aug	178	123
Stygian Shadowdragon	25-Aug	64	8
Sphagnum Sprite	26-Aug	238	183
Spatterdock Darner	29-Aug	262	152
Comet Darner	30-Aug	340	281
Swamp Darner	1-Sep	499	334
Common Sanddragon	1-Sep	123	36
Unicorn Clubtail	2-Sep	1009	750
Tiger Spiketail	3-Sep	81	16
Riverine Clubtail	4-Sep	15	1
Eastern Red Damsel	6-Sep	804	501
Sedge Sprite	6-Sep	230	84
Spangled Skimmer	14-Sep	663	462
Amber-winged Spreadwing	16-Sep	464	281

Elfin Skimmer	17-Sep	352	250
Black-shouldered Spinyleg	18-Sep	421	226
Dragonhunter	18-Sep	298	204
Great Blue Skimmer	18-Sep	278	197
Rambur's Forktail	19-Sep	14	12
Banded Pennant	20-Sep	434	354
Swamp Spreadwing	20-Sep	380	214
Elegant Spreadwing	20-Sep	318	185
Laura's Clubtail	21-Sep	47	25
Westfall's Slender Bluet	22-Sep	1115	907
Yellow-sided Skimmer	22-Sep	59	48
Rainbow Bluet	24-Sep	370	122
Gilded River Cruiser	24-Sep	63	24
Ocellated Darner	25-Sep	36	6
Ebony Jewelwing	26-Sep	4725	3645
Royal River Cruiser	26-Sep	419	208
Blue-tipped Dancer	27-Sep	2363	1939
Paiute Dancer	27-Sep	234	223
Southern Spreadwing	27-Sep	229	80
Sweetflag Spreadwing	29-Sep	282	162

2022 Numbers To-Date – Species Jim Lemon jlem@woh.rr.com

<i>Species</i>	<i># Observations</i>	<i># Counties</i>	<i># Users</i>	<i># Co Records</i>
Amber-winged Spreadwing	60	15	19	1
American Rubyspot	337	33	57	
Arrow Clubtail	7	6	7	
Arrowhead Spiketail	19	10	14	1
Ashy Clubtail	91	18	27	
Aurora Damsel	44	15	22	1
Autumn Meadowhawk	241	47	69	
Azure Bluet	293	53	71	
Band-winged Meadowhawk	86	16	33	2
Banded Pennant	107	20	24	2
Beaverpond Baskettail	2	1	1	

Black Saddlebags	425	70	83	
Black-shouldered Spinyleg	47	20	21	1
Black-tipped Darner	3	2	3	
Blue Corporal	25	10	17	1
Blue Dasher	2142	88	261	
Blue-faced Meadowhawk	64	16	28	1
Blue-fronted Dancer	791	79	108	
Blue-ringed Dancer	246	37	42	
Blue-tipped Dancer	650	69	88	1
Brown Spiketail	15	4	5	
Calico Pennant	323	50	67	
Carolina Saddlebags	177	36	58	2
Citrine Forktail	154	33	33	3
Clamp-tipped Emerald	6	6	6	
Cobra Clubtail	53	4	20	
Comet Darner	95	31	35	5
Common Baskettail	32	17	21	1
Common Green Darner	371	66	96	
Common Sanddragon	17	4	4	
Common Whitetail	1553	88	281	
Cyrano Darner	42	21	20	3
Delta-spotted Spiketail	8	2	3	
Dot-tailed Whiteface	206	32	37	3
Double-ringed Pennant	6	1	1	
Double-striped Bluet	552	66	69	
Dragonhunter	70	18	29	1
Dusky Clubtail	16	4	7	
Dusky Dancer	183	36	39	
Eastern Amberwing	1288	87	161	
Eastern Forktail	1896	87	154	
Eastern Least Clubtail	46	7	11	
Eastern Pondhawk	2068	88	233	
Eastern Red Damsel	187	20	44	1
Eastern Ringtail	17	4	4	
Ebony Jewelwing	1061	77	285	1
Elegant Spreadwing	56	18	21	
Elfin Skimmer	80	1	18	
Elusive Clubtail	1	1	1	
Familiar Bluet	531	71	90	

Fawn Darner	19	15	18	
Flag-tailed Spinyleg	81	20	19	
Fragile Forktail	1506	88	161	
Furtive Forktail	1	1	1	1
Gilded River Cruiser	7	4	4	
Golden-winged Skimmer	6	3	4	2
Gray Petaltail	60	14	29	2
Great Blue Skimmer	152	31	42	7
Great Spreadwing	18	8	12	1
Green-faced Clubtail	13	1	4	
Green-striped Darner	1	1	1	
Halloween Pennant	438	66	109	
Handsome Clubtail	17	6	7	1
Harlequin Darner	24	3	8	
Jade Clubtail	26	4	11	2
Lance-tipped Darner	4	4	4	
Lancet Clubtail	224	37	34	1
Laura's Clubtail	2	2	2	
Lilypad Clubtail	1	1	1	
Lilypad Forktail	96	8	20	
Little Blue Dragonlet	1	1	1	1
Lyre-tipped Spreadwing	5	2	4	
Macromia Hybrid	8	5	6	2
Midland Clubtail	82	17	21	2
Mocha Emerald	8	6	4	1
Northern Bluet	3	2	3	
Northern Emerald Spreadwing	70	17	29	
Northern Spreadwing	1	1	1	1
Orange Bluet	445	68	64	1
Painted Skimmer	279	42	75	7
Paiute Dancer	64	4	17	
Plains Clubtail	34	1	6	
Powdered Dancer	566	55	88	
Prince Baskettail	354	74	62	
Pronghorn Clubtail	16	5	10	
Racket-tailed Emerald	10	3	6	
Rainbow Bluet	22	6	10	
Rapids Clubtail	14	7	9	1
Red Saddlebags	14	4	7	1

Riffle Snaketail	3	1	3	
River Bluet	9	1	7	
River Jewelwing	1	1	1	
Royal River Cruiser	45	24	23	2
Ruby Meadowhawk	18	8	9	1
Russet-tipped Clubtail	10	2	3	
Rusty Snaketail	23	4	9	
Sedge Sprite	69	11	20	1
Seepage Dancer	186	5	33	
Shadow Darner	15	9	14	
Skimming Bluet	397	61	62	1
Slaty Skimmer	638	65	100	4
Slender Baskettail	1	1	1	1
Slender Spreadwing	488	64	84	
Smoky Rubyspot	7	2	2	
Southern Pygmy Clubtail	5	3	4	1
Southern Spreadwing	5	3	4	1
Spangled Skimmer	164	41	44	5
Spatterdock Darner	16	7	12	
Sphagnum Sprite	70	8	21	
Splendid Clubtail	11	2	7	
Spot-winged Glider	53	18	21	
Spotted Spreadwing	26	11	14	
Springtime Darner	24	14	17	
Stream Bluet	537	62	71	
Stream Cruiser	18	5	7	1
Swamp Darner	69	29	48	4
Swamp Spreadwing	50	20	21	2
Sweetflag Spreadwing	44	18	23	1
Swift River Cruiser	43	19	18	
Swift Setwing	30	7	9	2
Tiger Spiketail	6	5	5	
Tule Bluet	33	9	9	
Turquoise Bluet	97	15	18	1
Twelve-spotted Skimmer	469	62	115	
Twin-spotted Spiketail	3	3	3	1
Uhler's Sundragon	6	1	1	
Unicorn Clubtail	287	51	65	
Vesper Bluet	92	20	21	3

Violet Dancer	887	76	103	
Wandering Glider	153	40	50	2
Westfall's Slender Bluet	300	48	58	4
White-faced Meadowhawk	16	4	8	
Widow Skimmer	1359	88	216	
Yellow-sided Skimmer	30	1	3	

2022 To-Date Numbers – County Jim Lemon jlem@woh.rr.com

88 Counties	# Observations	# Sp	# Users	# Co Records
Adams	101	33	20	
Allen	57	22	6	
Ashland	217	32	11	
Ashtabula	1198	62	18	
Athens	90	30	14	
Auglaize	58	22	2	3
Belmont	375	26	1	1
Brown	73	32	5	
Butler	493	40	42	1
Carroll	93	24	5	1
Champaign	1119	64	38	1
Clark	736	54	20	3
Clermont	341	46	39	1
Clinton	75	26	8	
Columbiana	137	44	10	6
Coshocton	973	49	8	1
Crawford	98	30	6	3
Cuyahoga	632	52	85	
Darke	198	45	7	1
Defiance	55	20	5	
Delaware	197	30	39	
Erie	230	30	17	
Fairfield	127	28	18	
Fayette	162	28	5	2
Franklin	2093	60	101	1

Fulton	192	29	6	
Gallia	90	22	7	
Geauga	502	67	36	1
Greene	604	58	59	
Guernsey	75	18	2	
Hamilton	481	53	54	1
Hancock	364	59	18	2
Hardin	78	31	3	1
Harrison	257	36	5	2
Henry	286	33	6	1
Highland	64	23	11	
Hocking	102	34	23	
Holmes	173	27	8	1
Huron	299	27	5	3
Jackson	103	31	8	
Jefferson	224	34	5	3
Knox	85	16	16	
Lake	476	64	40	1
Lawrence	167	34	4	1
Licking	190	33	24	1
Logan	335	44	16	2
Lorain	631	46	32	1
Lucas	1919	73	63	1
Madison	235	32	14	2
Mahoning	78	35	8	1
Marion	319	27	8	2
Medina	192	41	28	2
Meigs	378	31	1	3
Mercer	81	22	3	1
Miami	463	53	21	
Monroe	180	28	2	2
Montgomery	1085	75	47	3
Morgan	144	32	7	
Morrow	480	30	15	1
Muskingum	185	31	7	
Noble	345	25	6	
Ottawa	133	28	45	5
Paulding	59	21	2	
Perry	92	21	1	1

Pickaway	110	33	16	3
Pike	109	30	8	2
Portage	399	71	44	1
Preble	195	35	11	3
Putnam	105	23	1	
Richland	130	29	14	1
Ross	49	28	11	
Sandusky	207	39	10	3
Scioto	92	28	9	1
Seneca	281	30	7	3
Shelby	131	31	14	5
Stark	2180	74	37	4
Summit	819	68	97	
Trumbull	87	34	10	1
Tuscarawas	156	27	4	1
Union	294	25	9	
Van Wert	33	17	1	
Vinton	65	29	5	
Warren	180	43	28	1
Washington	92	25	3	
Wayne	185	27	20	1
Williams	131	35	3	1
Wood	127	30	21	2
Wyandot	64	27	11	