

Vectorborne Surveillance in Ohio November 12, 2021



Mosquito Surveillance

Here is a summary of mosquitoes identified and tested for West Nile virus (WNV) to date. For each jurisdiction, the table reports the total number of mosquitoes identified in traps, the number of resulting pooled samples tested or pending (up to 50 mosquitoes per sample), and those positive for WNV. The table shows only the mosquitoes that have been identified and processed as of noon on 10/15/2021:

2021 Ohio Mosquito Surveillance Summary, as of 10/15/21						
Counties (49 total)	Agencies (60 total)	Mosquitoes Identified	Mosquitoes Tested	Pools Pending	Pools Reported*	WNV + Pools
Ashland	Ashland County-City Health Department	407	160	0	31	0
Ashtabula	Ashtabula City Health Department	394	273	0	10	0
Athens	Athens City-County Health Department	4,115	3,319	0	127	0
Carroll	Carroll County General Health District	12,152	10,596	0	298	16
Champaign	Champaign Health District	64	10	0	5	0
Clark	Clark County Combined Health District	27,095	25,593	0	611	93
Clermont	Clermont County Public Health	5,182	5,032	0	156	5
Coshocton	Coshocton County Health Department	106	9	0	2	0
Crawford	Galion City Health Department	332	90	0	24	0
Cuyahoga	Cuyahoga County Board of Health	12,578	11,265	0	313	26
Darke	Darke County General Health District	1,166	114	0	39	0
Delaware	Delaware General Health District	639	473	0	37	3
Fairfield	Fairfield Department of Health	4,331	3,699	0	138	9
	Franklin County Public Health	4,147	3,964	0	95	8
Franklin	Franklin County Public Health	132,588	111,486	0	2,662	335
	Columbus Public Health	100,611	96,729	0	2,256	161
	Ohio State University Entomology Department	330	0	0	0	0
Gallia	Gallia County Health Department	27	0	0	0	0
Greene	Greene County Public Health	358	261	0	21	4
Hamilton	Hamilton County Public Health	858	602	0	41	1
	Cincinnati Health Department	4,217	3,837	0	155	2
Hancock	Hancock Public Health	4,881	3,507	0	121	4

2021 Ohio Mosquito Surveillance Summary, as of 10/15/21

Counties (49 total)	Agencies (60 total)	Mosquitoes Identified	Mosquitoes Tested	Pools Pending	Pools Reported*	WNV + Pools
Hocking	Hocking County Health Department	838	349	0	60	0
Jackson	Jackson County Health Department	917	879	0	23	0
Lake	Lake County General Health District	3,136	2,476	0	139	2
Licking	Licking County Health Department	1,356	1,034	0	120	0
	Ohio Department of Health	143	0	0	0	0
Lorain	Lorain County Public Health	30,825	22,036	0	560	50
Lucas	Toledo Area Sanitary District	71,063	68,008	0	2,140	360
Madison	Madison County Public Health	25	21	0	2	0
Mahoning	Mahoning County District Board of Health	1,610	1,328	0	113	1
	Youngstown City Health District	245	125	0	21	1
Medina	Medina County Health Department	11,444	8,851	0	301	45
Meigs	Meigs County Health Department	1,657	1,368	0	84	0
Montgomery	Public Health - Dayton & Montgomery County	284	122	0	16	0
Morgan	Morgan County General Health District	801	529	0	36	0
Muskingum	Zanesville-Muskingum County Health Department	167	142	0	8	0
Ottawa	Ottawa County Health Department	1,934	1,755	0	97	0
Perry	Perry County General Health District	33	13	0	6	0
Pickaway	Pickaway County General Health District	360	245	0	16	0
Portage	Portage County Health District	3,150	2,338	0	166	2
	Kent City Health Department	48,994	36,527	0	896	23
Richland	Richland Public Health	27,375	23,740	0	540	8
	Shelby City Health Department	1,192	1,062	0	46	9
Ross	Ross County Health District	7,573	5,218	0	186	4
Scioto	Portsmouth City Health Department	646	277	0	72	4
Shelby	City of Sidney	422	4	0	2	0
Stark	Stark County Health Department	4,841	4,447	0	136	2
	Canton City Public Health	4,052	3,141	0	195	1
	Alliance City Health Department	2,026	1,641	0	41	1

2021 Ohio Mosquito Surveillance Summary, as of 10/15/21						
Counties (49 total)	Agencies (60 total)	Mosquitoes Identified	Mosquitoes Tested	Pools Pending	Pools Reported*	WNV + Pools
Summit	Summit County Public Health	33,023	29,282	0	851	26
	Barberton-Norton Mosquito Abatement District	22,008	13,477	0	611	9
Tuscarawas	Tuscarawas County Health Department	11,600	10,942	0	287	13
	New Philadelphia City Health Department	1,824	1,587	0	72	1
Union	Union County Health Department	18,493	15,595	0	383	42
Vinton	Vinton County Health Department	1,700	1,442	0	57	0
Warren	Warren County Health District	1,687	1,489	0	45	3
Wayne	College of Wooster	642	59	0	13	1
Wood	Village of Pemberville	1,929	1,815	0	50	9
Wyandot	Wyandot County Public Health	88	45	0	7	0
Totals:		636,907	544,582	0	15,561	1,286

Here is a breakdown by mosquito species identified:

Mosquito Species Identified	
Species	Total
<i>Aedes abserratus</i>	1
<i>Aedes albopictus</i>	4,232
<i>Aedes atropalpus</i>	23
<i>Aedes canadensis</i>	1,185
<i>Aedes cantator</i>	113
<i>Aedes cinereus</i>	130
<i>Aedes grossbecki</i>	64
<i>Aedes hendersoni</i>	12
<i>Aedes intrudens</i>	11
<i>Aedes japonicus</i>	19,457
<i>Aedes sollicitans</i>	98
<i>Aedes sp.</i>	2,884
<i>Aedes sticticus</i>	102
<i>Aedes stimulans</i>	411
<i>Aedes thibaulti</i>	1

Mosquito Species Identified	
Species	Total
<i>Aedes tormentor</i>	7
<i>Aedes triseriatus</i>	2,626
<i>Aedes trivittatus</i>	8,059
<i>Aedes vexans</i>	9,629
<i>Anopheles barberi</i>	134
<i>Anopheles crucians</i>	2
<i>Anopheles perplexens</i>	67
<i>Anopheles punctipennis</i>	2,406
<i>Anopheles quadrimaculatus</i>	1,605
<i>Anopheles sp.</i>	103
<i>Anopheles walkeri</i>	2
<i>Coquillettidia perturbans</i>	2,992
<i>Culex erraticus</i>	328
<i>Culex pipiens</i>	274
<i>Culex restuans</i>	438
<i>Culex salinarius</i>	3
<i>Culex sp.</i>	578,000
<i>Culex tarsalis</i>	4
<i>Culex territans</i>	15
<i>Culiseta inornata</i>	3
<i>Culiseta sp.</i>	2
<i>Orthopodomyia signifera</i>	119
<i>Psorophora ciliata</i>	8
<i>Psorophora columbiae</i>	60
<i>Psorophora ferox</i>	865
<i>Psorophora horrida</i>	13
<i>Psorophora howardii</i>	5
<i>Psorophora mathesoni</i>	1
<i>Psorophora sp.</i>	28
<i>Toxorhynchites rutilus</i>	25
<i>Uranotaenia sapphirina</i>	151
Other Species / Unknown	209

Mosquito Species Identified	
Species	Total
Total:	636,907

Here is the breakdown of *Ae. albopictus* collections by agency:

Breakdown of <i>Aedes albopictus</i> Identified		
County	Agency	Total
Athens	Athens City-County Health Department	21
Carroll	Carroll County General Health District	1
Champaign	Champaign Health District	2
Clark	Clark County Combined Health District	82
Clermont	Clermont County Public Health	15
Crawford	Galion City Health Department	7
Cuyahoga	Cuyahoga County Board of Health	20
Darke	Darke County General Health District	219
Delaware	Delaware General Health District	34
Fairfield	Fairfield Department of Health	47
	Franklin County Public Health	59
Franklin	Franklin County Public Health	2,826
Gallia	Gallia County Health Department	10
Greene	Greene County Public Health	7
Hamilton	Hamilton County Public Health	76
	Cincinnati Health Department	83
Hancock	Hancock Public Health	5
Hocking	Hocking County Health Department	110
Jackson	Jackson County Health Department	19
Lake	Lake County General Health District	30
Licking	Licking County Health Department	30
	Ohio Department of Health	4
Lorain	Lorain County Public Health	4
Madison	Madison County Public Health	1
Meigs	Meigs County Health Department	50
Montgomery	Public Health - Dayton & Montgomery County	1

Breakdown of <i>Aedes albopictus</i> Identified		
County	Agency	Total
Morgan	Morgan County General Health District	85
Muskingum	Zanesville-Muskingum County Health Department	1
Ottawa	Ottawa County Health Department	1
Pickaway	Pickaway County General Health District	14
Portage	Kent City Health Department	2
Ross	Ross County Health District	85
Scioto	Portsmouth City Health Department	146
Stark	Stark County Health Department	2
	Canton City Public Health	85
Summit	Summit County Public Health	3
	Barberton-Norton Mosquito Abatement District	3
Tuscarawas	Tuscarawas County Health Department	15
	New Philadelphia City Health Department	8
Vinton	Vinton County Health Department	13
Warren	Warren County Health District	5
Wayne	College of Wooster	1
Total:		4,232

Here is the breakdown of *Ae. triseriatus* collections by agency:

Breakdown of <i>Aedes triseriatus</i> Identified		
County	Agency	Total
Ashland	Ashland County-City Health Department	5
Ashtabula	Ashtabula City Health Department	1
Athens	Athens City-County Health Department	25
Carroll	Carroll County General Health District	73
Champaign	Champaign Health District	6
Clark	Clark County Combined Health District	21
Clermont	Clermont County Public Health	10
Crawford	Galion City Health Department	25
Cuyahoga	Cuyahoga County Board of Health	43

Breakdown of <i>Aedes triseriatus</i> Identified		
County	Agency	Total
Darke	Darke County General Health District	15
Delaware	Delaware General Health District	3
Fairfield	Fairfield Department of Health	7
Franklin	Franklin County Public Health	336
	Columbus Public Health	3
Gallia	Gallia County Health Department	6
Hamilton	Hamilton County Public Health	16
	Cincinnati Health Department	25
Hancock	Hancock Public Health	36
Hocking	Hocking County Health Department	21
Jackson	Jackson County Health Department	5
Lake	Lake County General Health District	66
Licking	Licking County Health Department	11
Lorain	Lorain County Public Health	208
Lucas	Toledo Area Sanitary District	28
Mahoning	Mahoning County District Board of Health	3
	Youngstown City Health District	5
Medina	Medina County Health Department	105
Meigs	Meigs County Health Department	15
Morgan	Morgan County General Health District	3
Ottawa	Ottawa County Health Department	17
Perry	Perry County General Health District	1
Pickaway	Pickaway County General Health District	10
Portage	Portage County Health District	211
	Kent City Health Department	77
Richland	Richland Public Health	255
	Shelby City Health Department	3
Ross	Ross County Health District	32
Scioto	Portsmouth City Health Department	20
Shelby	City of Sidney	1
Stark	Stark County Health Department	4
	Canton City Public Health	37
	Alliance City Health Department	33

Breakdown of <i>Aedes triseriatus</i> Identified		
County	Agency	Total
Summit	Summit County Public Health	423
	Barberton-Norton Mosquito Abatement District	209
Trumbull	Trumbull County Combined Health District	3
Tuscarawas	Tuscarawas County Health Department	71
	New Philadelphia City Health Department	28
Union	Union County Health Department	7
Vinton	Vinton County Health Department	21
Warren	Warren County Health District	1
Wayne	College of Wooster	30
Wood	Village of Pemberville	5
Wyandot	Wyandot County Public Health	1
Total:		2,626

Here is the breakdown of *C. perturbans* collections by agency:

Breakdown of <i>Coquilleltidia perturbans</i> Identified		
County	Agency	Total
Clark	Clark County Combined Health District	1
Cuyahoga	Cuyahoga County Board of Health	1
Darke	Darke County General Health District	2
Franklin	Franklin County Public Health	29
	Ohio State University Entomology Department	1
Lake	Lake County General Health District	1
Licking	Ohio Department of Health	1
Lucas	Toledo Area Sanitary District	6
Mahoning	Mahoning County District Board of Health	2
Medina	Medina County Health Department	2
Ottawa	Ottawa County Health Department	10
Portage	Portage County Health District	11
	Kent City Health Department	1,922
Summit	Summit County Public Health	12
	Barberton-Norton Mosquito Abatement District	989

Breakdown of <i>Coquillettidia perturbans</i> Identified		
County	Agency	Total
Wayne	College of Wooster	2
Total:		2,992



Tick Surveillance*

*Identifications provided by the Ohio Department of Health, the Ohio State University and local health agencies.

Here is a breakdown by tick species identified:

2021 Tick Species Identified in Ohio, as of 11/10/21					
Species	Life Stage				Totals:
	Adult Females	Adult Males	Nymphs	Larvae	
<i>Amblyomma americanum</i> (Lone Star tick)	39	28	20	477	564
<i>Amblyomma maculatum</i> (Gulf Coast tick)	4	6			10
<i>Carios kelleyi</i> (Bat tick)	1	2			3
<i>Dermacentor variabilis</i> (American Dog tick)	758	634	5	2	1,399
<i>Haemaphysalis leporispalustris</i> (Rabbit tick)	5	1	4	50	60
<i>Haemaphysalis longicornis</i> (Asian longhorned tick)	5				5
<i>Ixodes cookei</i> (Groundhog tick)	4		229		233
<i>Ixodes scapularis</i> (Blacklegged tick)	222	163	152	78	615
Totals:	1,038	834	410	607	2,889

Here is a breakdown of *Ix. scapularis* submissions by county:

Breakdown of Blacklegged Ticks Identified					
County	Life Stage				Totals:
	Adult Females	Adult Males	Nymphs	Larvae	
Ashland	31	30	1		62
Ashtabula	4	1	2		7
Athens	32	5			37
Belmont	1				1

Breakdown of Blacklegged Ticks Identified					
County	Life Stage				Totals:
	Adult Females	Adult Males	Nymphs	Larvae	
Butler	1				1
Champaign		1			1
Clark	2				2
Clermont	1				1
Columbiana	4	2			6
Coshocton	1	1	135	77	214
Cuyahoga	2		1		3
Delaware	3	4			7
Erie	7	11	1		19
Fairfield	3	5			8
Fayette	3	6			9
Franklin	2	1	4		7
Gallia				1	1
Geauga		2	1		3
Greene		1			1
Guernsey	1		1		2
Hamilton	3				3
Highland	1	7			8
Hocking	5	2			7
Jackson	1				1
Jefferson	1				1
Knox	26	30			56
Lake	2	1			3
Licking	2				2
Lorain	3	1			4
Madison	5	4			9
Medina	4				4
Meigs	1				1
Mercer	1		1		2
Monroe	6	7			13
Morrow	6	2			8

Breakdown of Blacklegged Ticks Identified					
County	Life Stage				Totals:
	Adult Females	Adult Males	Nymphs	Larvae	
Muskingum			1		1
Ottawa	1				1
Portage	4	1	1		6
Richland	27	36			63
Ross	1		1		2
Stark	7				7
Summit	8				8
Trumbull	4				4
Tuscarawas			2		2
Vinton	1				1
Wayne	4	2			6
Totals:	222	163	152	78	615

Here is a breakdown of *D. variabilis* submissions by county:

Breakdown of American Dog Ticks Identified					
County	Life Stage				Totals:
	Adult Females	Adult Males	Nymphs	Larvae	
Adams	1	1			2
Allen	1				1
Ashtabula	3	5			8
Athens	7	5	1		13
Butler	86	75			161
Champaign		1			1
Clark	2	1			3
Clermont	2	4			6
Coshocton		2	3	2	7
Crawford	1				1
Cuyahoga	16	5			21
Darke	3				3
Defiance	2	1			3

Breakdown of American Dog Ticks Identified					
County	Life Stage				Totals:
	Adult Females	Adult Males	Nymphs	Larvae	
Delaware	3	2			5
Erie	7	5			12
Fairfield	2				2
Franklin	30	16			46
Gallia	2	4			6
Geauga	4	3			7
Greene	1	1			2
Hamilton	10	5			15
Hancock	2				2
Highland		1			1
Hocking	3				3
Holmes	1				1
Jackson	10	6			16
Lake	11	5			16
Licking	4	2			6
Logan	2	1			3
Lorain	5	1			6
Lucas	2	3			5
Madison	441	391	1		833
Mahoning	7	3			10
Marion	2				2
Medina	8	7			15
Meigs	1				1
Mercer	25	19			44
Monroe	1				1
Montgomery	7	8			15
Morgan	2	2			4
Morrow	1				1
Muskingum		2			2
Noble		1			1
Ottawa		1			1

Breakdown of American Dog Ticks Identified					
County	Life Stage				Totals:
	Adult Females	Adult Males	Nymphs	Larvae	
Perry		1			1
Pickaway		1			1
Portage	4	7			11
Preble	3	1			4
Richland	1	2			3
Ross	1	1			2
Sandusky	1				1
Seneca	1				1
Stark	5	2			7
Summit	13	18			31
Trumbull	2	1			3
Tuscarawas	2	1			3
Vinton		1			1
Warren	1	2			3
Wayne	2	3			5
Williams	1				1
Wood	3	4			7
Totals:	758	634	5	2	1,399

Here is a breakdown of *A. americanum* submissions by county:

Breakdown of Lone Star Ticks Identified					
County	Life Stage				Totals:
	Adult Females	Adult Males	Nymphs	Larvae	
Adams	2	2			4
Athens	1				1
Coshocton				5	5
Cuyahoga		1			1
Gallia	6	3	2		11
Hamilton	1		1		2
Hocking	1		2		3

Breakdown of Lone Star Ticks Identified					
County	Life Stage				Totals:
	Adult Females	Adult Males	Nymphs	Larvae	
Jackson	9	2	1		12
Lawrence				447	447
Licking			1		1
Lucas	1				1
Meigs		1	5		6
Pike	16	15			31
Ross	1	3	2	1	7
Scioto	1		1	24	26
Shelby			1		1
Vinton			4		4
Southern Ohio		1			1
Totals:	39	28	20	477	564

Here is a breakdown of *H. longicornis* submissions by county:

Breakdown of Asian Longhorned Ticks Identified					
County	Life Stage				Totals:
	Adult Females	Adult Males	Nymphs	Larvae	
Jackson	1				1
Monroe	4				4
Totals:	5	0	0	0	5