

Vectorborne Surveillance in Ohio September 23, 2022



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 09/22/2022:

2022 Ohio Mosquito Surveillance Summary, as of 9/22/22							
Counties (50 total)	Agencies (62 total)	Mosquitoes Identified	Mosquitoes Tested	Pools Pending	Pools Reported*	WNV+ Pools	% WNV Positive
Allen	City of Delphos	29	18	0	3	0	0.0%
Ashland	Ashland County Health Department	183	55	0	5	0	0.0%
Ashtabula	Ashtabula City Health Department	756	649	0	17	0	0.0%
Athens	Athens City County Health Department	5,330	4,887	0	156	2	1.3%
Carroll	Carroll County General Health District	3,276	2,796	0	96	2	2.1%
Champaign	Champaign Health District	54	16	0	3	0	0.0%
Clark	Clark County Combined Health District	15,310	14,548	0	389	39	10.0%
Clermont	Clermont County Public Health	3,776	3,634	0	115	1	0.9%
Columbiana	Columbiana County Health District	74	56	0	4	1	25.0%
	Salem City Health Department	195	122	0	5	0	0.0%
Coshocton	Coshocton County Health Department	53	19	0	2	0	0.0%
Crawford	Galion City Health Department	1,137	995	0	47	1	2.1%
Cuyahoga	Cuyahoga County Board of Health	3,226	3,041	0	101	11	10.9%
Darke	Darke County General Health District	311	30	0	7	0	0.0%
Delaware	Delaware Public Health District	3,403	2,582	5	113	2	1.8%
Fairfield	Fairfield Department of Health	2,082	1,488	1	93	1	1.1%
	Franklin County Public Health	3,139	2,286	0	61	4	6.6%
Franklin	Franklin County Public Health	92,057	70,870	0	1,881	157	8.3%
	Columbus Public Health	116,682	110,362	42	2,545	502	19.7%
Gallia	Gallia County General Health District	17	3	0	1	0	0.0%

2022 Ohio Mosquito Surveillance Summary, as of 9/22/22

Counties (50 total)	Agencies (62 total)	Mosquitoes Identified	Mosquitoes Tested	Pools Pending	Pools Reported*	WNV+ Pools	% WNV Positive
Greene	Greene County Public Health	453	389	0	19	0	0.0%
Hamilton	Hamilton County Public Health	1,238	984	0	43	0	0.0%
	Cincinnati Health Department	3,018	2,678	0	102	0	0.0%
Hancock	Hancock Public Health	3,846	3,481	0	134	9	6.7%
Henry	Henry County Health Department	821	789	0	27	1	3.7%
Hocking	Hocking County Health Department	351	150	0	14	0	0.0%
Knox	Knox Public Health	1,327	1,109	0	36	1	2.8%
Lake	Lake County General Health District	2,017	1,472	0	93	3	3.2%
Licking	Licking County Health Department	2,089	1,940	0	122	0	0.0%
	Ohio Department of Health	823	120	0	3	0	0.0%
Lorain	Lorain County Public Health	27,577	23,642	0	617	15	2.4%
Mahoning	Mahoning County Public Health	2,731	2,024	0	98	1	1.0%
Medina	Medina County Health Department	3,715	3,204	0	126	0	0.0%
Meigs	Meigs County Health Department	733	475	0	43	0	0.0%
Montgomery	Public Health - Dayton & Montgomery County	330	210	4	22	3	13.6%
Morgan	Morgan County Health Department	240	137	0	7	0	0.0%
Muskingum	Zanesville-Muskingum County Health Department	12	8	0	1	0	0.0%
Ottawa	Ottawa County Health Department	1,538	1,353	0	94	0	0.0%
Pickaway	Pickaway County Public Health	67	35	0	5	0	0.0%
Pike	Pike County General Health District	1,168	975	0	38	0	0.0%
Portage	Portage County Health District	15,628	13,997	9	403	6	1.5%
	Kent City Health Department	29,869	20,528	0	589	5	0.8%
Richland	Richland Public Health	15,891	13,892	0	339	6	1.8%
	Shelby City Health Department	2,148	2,065	0	61	2	3.3%
Ross	Ross County Health District	7,021	6,344	0	210	5	2.4%
Scioto	Scioto County Health Department	9,260	8,309	9	227	3	1.3%

2022 Ohio Mosquito Surveillance Summary, as of 9/22/22							
Counties (50 total)	Agencies (62 total)	Mosquitoes Identified	Mosquitoes Tested	Pools Pending	Pools Reported*	WNV+ Pools	% WNV Positive
Scioto	Portsmouth City Health Department	469	172	0	24	0	0.0%
Shelby	City of Sidney	383	9	0	2	0	0.0%
Stark	Stark County Health Department	6,690	6,234	0	242	2	0.8%
	Canton City Public Health	10,701	9,440	0	317	2	0.6%
	Alliance City Health Department	2,285	1,761	0	52	2	3.8%
Summit	Summit County Public Health	32,316	28,669	0	865	10	1.2%
	Barberton Norton Mosquito Abatement District	23,776	18,025	0	620	9	1.5%
Trumbull	Trumbull County Combined Health District	157	99	0	9	0	0.0%
Tuscarawas	Tuscarawas County Health Department	4,107	3,915	0	103	3	2.9%
	New Philadelphia City Health Department	301	200	0	14	0	0.0%
Union	Union County Health Department	10,811	9,940	22	265	14	5.3%
Vinton	Vinton County Health Department	2,828	2,618	0	95	2	2.1%
Warren	Warren County Health District	1,308	1,228	0	49	0	0.0%
Wayne	College of Wooster	193	54	0	6	0	0.0%
Wood	Bowling Green State University	12,692	1,851	0	119	1	0.8%
	Village of Pemberville	888	859	0	30	2	6.7%
Wyandot	Wyandot County Public Health	528	463	0	25	0	0.0%
Totals:		495,434	414,304	92	11,954*	830	6.9%

*Testing Agency	Assay Used	# of Pools Reported
Ohio Department of Health	RT-PCR	9,554
Franklin County Public Health	RAMP	1,247
Columbus Public Health	VecTOR	555
	RAMP	480
Licking County Health Department	RAMP	118
Total # of Pools Reported:		11,954

Here is a breakdown by mosquito species identified:

Mosquito Species Identified	
Species	Total
<i>Aedes albopictus</i>	3,961
<i>Aedes atropalpus</i>	1
<i>Aedes canadensis</i>	192
<i>Aedes cantator</i>	33
<i>Aedes cinereus</i>	96
<i>Aedes communis</i>	70
<i>Aedes dorsalis</i>	1
<i>Aedes excrucians</i>	1
<i>Aedes grossbecki</i>	30
<i>Aedes hendersoni</i>	5
<i>Aedes implicatus</i>	1
<i>Aedes intrudens</i>	2
<i>Aedes japonicus</i>	21,823
<i>Aedes provocans</i>	1
<i>Aedes riparius</i>	5
<i>Aedes sollicitans</i>	17
<i>Aedes sp.</i>	2,844
<i>Aedes sticticus</i>	2
<i>Aedes stimulans</i>	926
<i>Aedes tormentor</i>	4
<i>Aedes triseriatus</i>	2,563
<i>Aedes trivittatus</i>	7,755
<i>Aedes vexans</i>	11,669
<i>Anopheles barberi</i>	119
<i>Anopheles crucians</i>	1
<i>Anopheles earlei</i>	1
<i>Anopheles perplexens</i>	51
<i>Anopheles punctipennis</i>	2,240
<i>Anopheles quadrimaculatus</i>	1,725
<i>Anopheles sp.</i>	54
<i>Coquillettidia perturbans</i>	3,265

Mosquito Species Identified	
Species	Total
<i>Culex erraticus</i>	700
<i>Culex pipiens</i>	781
<i>Culex restuans</i>	173
<i>Culex sp.</i>	433,290
<i>Culex territans</i>	1
<i>Culiseta morsitans</i>	1
<i>Orthopodomyia signifera</i>	137
<i>Orthopodomyia sp.</i>	3
<i>Psorophora ciliata</i>	5
<i>Psorophora columbiae</i>	353
<i>Psorophora cyanescens</i>	1
<i>Psorophora ferox</i>	270
<i>Psorophora horrida</i>	12
<i>Psorophora howardii</i>	2
<i>Psorophora sp.</i>	5
<i>Toxorhynchites rutilus</i>	2
<i>Uranotaenia sapphirina</i>	156
unknown species	84
Total:	495,434

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	41
Champaign	Champaign Health District	4
Clark	Clark County Combined Health District	35
Clermont	Clermont County Public Health	23
Crawford	Galion City Health Department	2
Cuyahoga	Cuyahoga County Board of Health	5
Darke	Darke County General Health District	49

Breakdown of *Aedes albopictus* Identified

County	Agency	Total
Delaware	Delaware Public Health District	56
Fairfield	Fairfield Department of Health	83
	Franklin County Public Health	38
Franklin	Franklin County Public Health	2,603
	Columbus Public Health	2
Gallia	Gallia County General Health District	5
Greene	Greene County Public Health	6
Hamilton	Hamilton County Public Health	59
	Cincinnati Health Department	114
Hancock	Hancock Public Health	5
Hocking	Hocking County Health Department	52
Lake	Lake County General Health District	10
Licking	Ohio Department of Health	4
Lorain	Lorain County Public Health	6
Meigs	Meigs County Health Department	55
Montgomery	Public Health - Dayton & Montgomery County	2
Morgan	Morgan County Health Department	7
Pickaway	Pickaway County Public Health	2
Pike	Pike County General Health District	19
Portage	Kent City Health Department	1
Ross	Ross County Health District	186
Scioto	Scioto County Health Department	234
	Portsmouth City Health Department	120
Stark	Stark County Health Department	8
	Canton City Public Health	60
Summit	Summit County Public Health	9
	Barberton Norton Mosquito Abatement District	1
Tuscarawas	Tuscarawas County Health Department	4
	New Philadelphia City Health Department	14
Union	Union County Health Department	14
Vinton	Vinton County Health Department	10
Warren	Warren County Health District	11

Breakdown of <i>Aedes albopictus</i> Identified		
County	Agency	Total
Wood	Bowling Green State University	2
Total:		3,961

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

Breakdown of <i>Aedes triseriatus</i> Identified		
County	Agency	Total
Ashland	Ashland County Health Department	14
Ashtabula	Ashtabula City Health Department	2
Athens	Athens City County Health Department	33
Carroll	Carroll County General Health District	13
Clark	Clark County Combined Health District	18
Clermont	Clermont County Public Health	26
Columbiana	Columbiana County Health District	7
Crawford	Galion City Health Department	13
Cuyahoga	Cuyahoga County Board of Health	9
Darke	Darke County General Health District	9
Delaware	Delaware Public Health District	21
Fairfield	Fairfield Department of Health	33
	Franklin County Public Health	8
Franklin	Franklin County Public Health	197
	Columbus Public Health	11
Gallia	Gallia County General Health District	1
Greene	Greene County Public Health	3
Hamilton	Hamilton County Public Health	11
	Cincinnati Health Department	53
Hancock	Hancock Public Health	43
Henry	Henry County Health Department	1
Hocking	Hocking County Health Department	12
Knox	Knox Public Health	8
Lake	Lake County General Health District	22

Breakdown of <i>Aedes triseriatus</i> Identified		
County	Agency	Total
Licking	Ohio Department of Health	10
Lorain	Lorain County Public Health	135
Mahoning	Mahoning County Public Health	65
Medina	Medina County Health Department	25
Meigs	Meigs County Health Department	15
Montgomery	Public Health - Dayton & Montgomery County	3
Morgan	Morgan County Health Department	5
Ottawa	Ottawa County Health Department	17
Pike	Pike County General Health District	6
Portage	Portage County Health District	301
	Kent City Health Department	115
Richland	Richland Public Health	254
	Shelby City Health Department	1
Ross	Ross County Health District	97
Scioto	Scioto County Health Department	60
	Portsmouth City Health Department	19
Stark	Stark County Health Department	5
	Canton City Public Health	24
	Alliance City Health Department	26
Summit	Summit County Public Health	438
	Barberton Norton Mosquito Abatement District	222
Trumbull	Trumbull County Combined Health District	1
Tuscarawas	Tuscarawas County Health Department	19
	New Philadelphia City Health Department	8
Union	Union County Health Department	30
Vinton	Vinton County Health Department	19
Warren	Warren County Health District	3
Wayne	College of Wooster	27
Wood	Bowling Green State University	39
	Village of Pemberville	2
Wyandot	Wyandot County Public Health	4
Total:		2,563

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

Breakdown of <i>Coquillettidia perturbans</i> Identified		
County	Agency	Total
Ashtabula	Ashtabula City Health Department	7
Clark	Clark County Combined Health District	1
Darke	Darke County General Health District	1
Fairfield	Fairfield Department of Health	1
Franklin	Franklin County Public Health	30
Mahoning	Mahoning County Public Health	1
Ottawa	Ottawa County Health Department	2
Portage	Portage County Health District	3
	Kent City Health Department	2,328
Richland	Richland Public Health	1
Ross	Ross County Health District	1
Stark	Stark County Health Department	2
Summit	Summit County Public Health	4
	Barberton Norton Mosquito Abatement District	816
Wood	Bowling Green State University	67
Total:		3,265



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:

2022 Tick Species Identified in Ohio, as of 9/8/22					
Species	Life Stage				Totals:
	Adult Females	Adult Males	Nymphs	Larvae	
<i>Amblyomma americanum</i> (Lone Star tick)	59	33	158	1	251
<i>Amblyomma maculatum</i> (Gulf Coast tick)	5	10			15
<i>Dermacentor variabilis</i> (American Dog tick)	552	467			1,019
<i>Haemaphysalis leporispalustris</i> (Rabbit tick)			1		1
<i>Haemaphysalis longicornis</i> (Asian Longhorned tick)			1		1
<i>Ixodes cookei</i> (Groundhog tick)	1				1
<i>Ixodes scapularis</i> (Blacklegged tick)	169	96	165	13	443
Totals:	786	606	325	14	1,731

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	
Allen			1		1
Ashland	1				1
Ashtabula	3	4	5	1	13
Athens	15	2	2		19
Belmont	1	1			2

Breakdown of Blacklegged Ticks Identified

County	Life Stage				Totals:
	Adult Females	Adult Males	Nymphs	Larvae	
Carroll	2		1	2	5
Clermont	1		2		3
Columbiana	25	25	61		111
Coshocton	59	47			106
Cuyahoga	4	2	2	2	10
Erie	2		2		4
Franklin	4		1	1	6
Gallia		1	58	5	64
Geauga	3	1	1		5
Greene			1		1
Guernsey			1		1
Hamilton	5				5
Highland	1		1		2
Hocking	1	1	1		3
Holmes	1	2	1		4
Jackson	1		1		2
Jefferson	2		1		3
Knox	2		1		3
Lake	3	1	1		5
Licking	2		2		4
Lucas	1				1
Mahoning	1				1
Medina	2	1			3
Meigs				2	2
Montgomery	1				1
Morrow		1			1
Noble	1				1
Ottawa	1				1
Portage	5	1	1		7
Richland			1		1
Ross			12		12

Breakdown of Blacklegged Ticks Identified					
County	Life Stage				Totals:
	Adult Females	Adult Males	Nymphs	Larvae	
Scioto	1				1
Stark	3				3
Summit	9		3		12
Tuscarawas	1				1
Washington		1			1
Wayne	3	5	1		9
Williams	2				2
Totals:	169	96	165	13	443

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	2				2
Allen		1			1
Ashland	3	1			4
Ashtabula	1	1			2
Athens	21	18			39
Belmont		2			2
Butler	4	5			9
Carroll	1	2			3
Clark	3				3
Clermont	7	2			9
Columbiana	3	4			7
Coshocton	10	3			13
Crawford	1	1			2
Cuyahoga	12	6			18
Darke		2			2
Delaware	4	4			8

Breakdown of American Dog Ticks Identified

County	Life Stage				Totals:
	Adult Females	Adult Males	Nymphs	Larvae	
Erie	8	8			16
Fairfield		3			3
Franklin	14	9			23
Gallia	22	16			38
Geauga	3	1			4
Greene	3	3			6
Guernsey	1				1
Hamilton	10	6			16
Hancock	2	1			3
Hardin	1				1
Highland	1	1			2
Hocking	1	2			3
Huron	5				5
Jackson		2			2
Knox	1				1
Lake	4	4			8
Licking	8	5			13
Logan	3	1			4
Lorain	306	296			602
Lucas	3	3			6
Madison	1				1
Mahoning	3	1			4
Marion		1			1
Medina	16	10			26
Montgomery	22	12			34
Morgan	1	2			3
Morrow	1				1
Muskingum	2				2
Ottawa	1	2			3
Pike	1				1
Portage	4	5			9

Breakdown of American Dog Ticks Identified					
County	Life Stage				Totals:
	Adult Females	Adult Males	Nymphs	Larvae	
Preble		1			1
Putnam	1				1
Richland	3	3			6
Sandusky	1				1
Seneca		1			1
Stark	3	1			4
Summit	11	9			20
Trumbull	3				3
Warren	3	1			4
Wayne	2	2			4
Wood	5	1			6
Wyandot		1			1
unknown		1			1
Totals:	552	467	0	0	1,019

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	3	2	3		8
Athens	10		4		14
Auglaize		1			1
Brown			1		1
Gallia	22	15	100	1	138
Hamilton	1	3			4
Hocking	2		4		6
Jackson	1	1			2
Knox	1				1
Meigs		1			1

Breakdown of Lone Star Ticks Identified					
County	Life Stage				Totals:
	Adult Females	Adult Males	Nymphs	Larvae	
Montgomery	1				1
Muskingum	1				1
Ross	13	10	45		68
Scioto	1				1
Vinton	1		1		2
unknown	2				2
Totals:	59	33	158	1	251