

Vectorborne Surveillance in Ohio August 4, 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 08/04/2022:

2022 Ohio Mosquito Surveillance Summary, as of 8/4/22							
Counties (51 total)	Agencies (63 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	79	8	0	1	0	0.0%
Ashtabula	Ashtabula City Health Department	552	470	0	12	0	0.0%
Athens	Athens City County Health Department	3,374	3,103	0	94	0	0.0%
Carroll	Carroll County General Health District	2,393	2,046	0	72	0	0.0%
Champaign	Champaign Health District	12	0	0	0	0	—
Clark	Clark County Combined Health District	11,437	10,776	0	292	13	4.5%
Clermont	Clermont County Public Health	2,455	2,364	0	77	0	0.0%
Columbiana	Columbiana County Health District	74	49	1	3	1	33.3%
	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	838	639	5	23	0	0.0%
Cuyahoga	Cuyahoga County Board of Health	2,611	2,039	19	59	0	0.0%
Darke	Darke County General Health District	236	23	0	5	0	0.0%
Delaware	Delaware Public Health District	2,780	2,168	9	81	1	1.2%
Fairfield	Fairfield Department of Health	1,531	1,250	0	68	0	0.0%
	Franklin County Public Health	2,343	1,635	0	41	0	0.0%
Franklin	Franklin County Public Health	66,891	50,644	0	1,291	46	3.6%
	Columbus Public Health	76,765	68,143	90	1,562	53	3.4%
Gallia	Gallia County General Health District	17	3	0	1	0	0.0%

2022 Ohio Mosquito Surveillance Summary, as of 8/4/22

Counties (51 total)	Agencies (63 total)	Mosquitoes Identified	Mosquitoes Tested	Pools Pending	Pools Reported*	WNV+ Pools	% WNV Positive
Scioto	Scioto County Health Department	7,470	7,024	0	179	1	0.6%
	Portsmouth City Health Department	411	119	4	18	0	0.0%
Shelby	City of Sidney	290	6	0	1	0	0.0%
Stark	Stark County Health Department	2,279	2,060	0	93	0	0.0%
	Canton City Public Health	9,859	8,816	0	273	1	0.4%
	Alliance City Health Department	1,727	1,129	8	30	0	0.0%
Summit	Summit County Public Health	23,697	21,013	0	616	4	0.6%
	Barberton Norton Mosquito Abatement District	18,639	13,238	40	393	1	0.3%
Trumbull	Trumbull County Combined Health District	90	41	0	7	0	0.0%
Tuscarawas	Tuscarawas County Health Department	2,037	1,969	0	53	2	3.8%
	New Philadelphia City Health Department	244	185	0	11	0	0.0%
Union	Union County Health Department	5,787	5,500	0	145	1	0.7%
Vinton	Vinton County Health Department	1,999	1,845	0	62	0	0.0%
Warren	Warren County Health District	984	935	0	33	0	0.0%
Wayne	College of Wooster	151	54	0	6	0	0.0%
Wood	Bowling Green State University	11,029	1,496	3	79	0	0.0%
	Village of Pemberville	766	747	0	21	1	4.8%
Wyandot	Wyandot County Public Health	237	153	3	9	0	0.0%
Totals:		363,255	286,356	434	8,005*	136	1.7%

*Testing Agency	Assay Used	# of Pools Reported
Ohio Department of Health	RT-PCR	6,220
Franklin County Public Health	RAMP	810
Columbus Public Health	VecTOR	555
	RAMP	325
Licking County Health Department	RAMP	95
Total # of Pools Reported:		8,005

Here is a breakdown by mosquito species identified:

Mosquito Species Identified	
Species	Total
<i>Aedes albopictus</i>	1,865
<i>Aedes atropalpus</i>	1
<i>Aedes canadensis</i>	190
<i>Aedes cantator</i>	33
<i>Aedes cinereus</i>	85
<i>Aedes communis</i>	70
<i>Aedes excrucians</i>	1
<i>Aedes grossbecki</i>	29
<i>Aedes hendersoni</i>	5
<i>Aedes implicatus</i>	1
<i>Aedes intrudens</i>	2
<i>Aedes japonicus</i>	15,854
<i>Aedes provocans</i>	1
<i>Aedes riparius</i>	5
<i>Aedes sollicitans</i>	15
<i>Aedes sp.</i>	2,230
<i>Aedes sticticus</i>	2
<i>Aedes stimulans</i>	924
<i>Aedes tormentor</i>	4
<i>Aedes triseriatus</i>	1,856
<i>Aedes trivittatus</i>	6,509
<i>Aedes vexans</i>	9,924
<i>Anopheles barberi</i>	83
<i>Anopheles crucians</i>	1
<i>Anopheles earlei</i>	1
<i>Anopheles perplexens</i>	32
<i>Anopheles punctipennis</i>	1,689
<i>Anopheles quadrimaculatus</i>	1,065
<i>Anopheles sp.</i>	45
<i>Coquillettidia perturbans</i>	2,991
<i>Culex erraticus</i>	144

Mosquito Species Identified	
Species	Total
<i>Culex pipiens</i>	41
<i>Culex restuans</i>	172
<i>Culex sp.</i>	316,649
<i>Culex territans</i>	1
<i>Culiseta morsitans</i>	1
<i>Orthopodomyia signifera</i>	96
<i>Orthopodomyia sp.</i>	3
<i>Psorophora ciliata</i>	2
<i>Psorophora columbiae</i>	315
<i>Psorophora cyanescens</i>	1
<i>Psorophora ferox</i>	198
<i>Psorophora horrida</i>	5
<i>Psorophora howardii</i>	2
<i>Psorophora sp.</i>	1
<i>Toxorhynchites rutilus</i>	1
<i>Uranotaenia sapphirina</i>	56
unknown species	54
Total:	363,255

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	4
Clark	Clark County Combined Health District	24
Clermont	Clermont County Public Health	6
Cuyahoga	Cuyahoga County Board of Health	3
Darke	Darke County General Health District	32
Delaware	Delaware Public Health District	18
Fairfield	Fairfield Department of Health	18
	Franklin County Public Health	17

Breakdown of <i>Aedes albopictus</i> Identified		
County	Agency	Total
Franklin	Columbus Public Health	1
	Franklin County Public Health	1,262
Gallia	Gallia County General Health District	5
Greene	Greene County Public Health	3
Hamilton	Hamilton County Public Health	17
	Cincinnati Health Department	38
Hancock	Hancock Public Health	1
Hocking	Hocking County Health Department	37
Lake	Lake County General Health District	7
Lorain	Lorain County Public Health	2
Meigs	Meigs County Health Department	55
Morgan	Morgan County Health Department	7
Pickaway	Pickaway County Public Health	2
Pike	Pike County General Health District	18
Portage	Kent City Health Department	1
Ross	Ross County Health District	90
Scioto	Scioto County Health Department	63
	Portsmouth City Health Department	90
Stark	Canton City Public Health	26
Summit	Summit County Public Health	6
Tuscarawas	New Philadelphia City Health Department	1
Union	Union County Health Department	1
Vinton	Vinton County Health Department	8
Warren	Warren County Health District	2
Total:		1,865

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	13
Athens	Athens City County Health Department	19
Carroll	Carroll County General Health District	13
Clark	Clark County Combined Health District	14
Clermont	Clermont County Public Health	16
Columbiana	Columbiana County Health District	7
Crawford	Galion City Health Department	11
Cuyahoga	Cuyahoga County Board of Health	5
Darke	Darke County General Health District	9
Delaware	Delaware Public Health District	12
Fairfield	Fairfield Department of Health	15
	Franklin County Public Health	6
Franklin	Franklin County Public Health	116
	Columbus Public Health	4
Gallia	Gallia County General Health District	1
Greene	Greene County Public Health	3
Hamilton	Hamilton County Public Health	6
	Cincinnati Health Department	37
Hancock	Hancock Public Health	42
Hocking	Hocking County Health Department	11
Knox	Knox Public Health	4
Lake	Lake County General Health District	16
Licking	Ohio Department of Health	10
Lorain	Lorain County Public Health	107
Mahoning	Mahoning County Public Health	40
Medina	Medina County Health Department	22
Meigs	Meigs County Health Department	15
Montgomery	Public Health - Dayton & Montgomery County	1
Morgan	Morgan County Health Department	5
Ottawa	Ottawa County Health Department	16
Pike	Pike County General Health District	6

Breakdown of <i>Aedes triseriatus</i> Identified		
County	Agency	Total
Portage	Portage County Health District	228
	Kent City Health Department	60
Richland	Richland Public Health	209
	Shelby City Health Department	1
Ross	Ross County Health District	67
Scioto	Scioto County Health Department	43
	Portsmouth City Health Department	17
Stark	Stark County Health Department	1
	Canton City Public Health	17
	Alliance City Health Department	17
Summit	Summit County Public Health	378
	Barberton Norton Mosquito Abatement District	125
Tuscarawas	Tuscarawas County Health Department	10
	New Philadelphia City Health Department	7
Union	Union County Health Department	15
Vinton	Vinton County Health Department	16
Warren	Warren County Health District	2
Wayne	College of Wooster	10
Wood	Bowling Green State University	29
	Village of Pemberville	2
Total:		1,856

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
Darke	Darke County General Health District	1
Fairfield	Fairfield Department of Health	1
Franklin	Franklin County Public Health	15

Breakdown of <i>Coquillettidia perturbans</i> Identified		
County	Agency	Total
Mahoning	Mahoning County Public Health	1
Ottawa	Ottawa County Health Department	1
Portage	Portage County Health District	3
	Kent City Health Department	2,165
Stark	Stark County Health Department	2
Summit	Summit County Public Health	4
	Barberton Norton Mosquito Abatement District	731
Wood	Bowling Green State University	60
Total:		2,991



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 8/4/22					
Species	Life Stage				Totals:
	Adult Females	Adult Males	Nymphs	Larvae	
<i>Amblyomma americanum</i> (Lone Star tick)	59	33	156	1	249
<i>Amblyomma maculatum</i> (Gulf Coast tick)	3	10			13
<i>Dermacentor variabilis</i> (American Dog tick)	542	463			1,005
<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	164	12	441
Totals:	774	602	322	13	1,711

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	1	9
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		2		11
Tuscarawas	1				1
Washington		1			1
Wayne	3	5	1		9
Williams	2				2
Totals:	169	96	164	12	441

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
Ashland	3				3
Ashtabula	1	1			2
Athens	21	18			39
Belmont		2			2
Butler	3	5			8
Carroll	1	2			3
Clark	3				3
Clermont	4	2			6
Columbiana	3	4			7
Coshocton	10	3			13
Crawford	1	1			2
Cuyahoga	12	6			18
Darke		2			2
Delaware	4	4			8
Erie	8	8			16

Breakdown of American Dog Ticks Identified

County	Life Stage				Totals:
	Adult Females	Adult Males	Nymphs	Larvae	
Fairfield		3			3
Franklin	14	9			23
Gallia	22	16			38
Geauga	3	1			4
Greene	3	3			6
Guernsey	1				1
Hamilton	10	5			15
Hancock	2	1			3
Hardin	1				1
Highland	1	1			2
Hocking	1	2			3
Huron	4				4
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
Medina	16	10			26
Montgomery	20	12			32
Morgan	1	2			3
Morrow	1				1
Muskingum	2				2
Ottawa		2			2
Pike	1				1
Portage	4	5			9
Preble		1			1
Putnam	1				1

Breakdown of American Dog Ticks Identified					
County	Life Stage				Totals:
	Adult Females	Adult Males	Nymphs	Larvae	
Richland	3	3			6
Sandusky	1				1
Seneca		1			1
Stark	3	1			4
Summit	9	9			18
Trumbull	3				3
Warren	3	1			4
Wayne	2	2			4
Wood	5	1			6
Wyandot		1			1
unknown		1			1
Totals:	542	463	0	0	1,005

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
Gallia	22	15	100	1	138
Hamilton	1	3			4
Hocking	2		3		5
Jackson	1	1			2
Knox	1				1
Meigs		1			1
Montgomery	1				1
Muskingum	1				1
Ross	13	10	45		68
Scioto	1				1

Breakdown of Lone Star Ticks Identified					
County	Life Stage				Totals:
	Adult Females	Adult Males	Nymphs	Larvae	
Vinton	1		1		2
unknown	2				2
Totals:	59	33	156	1	249