

Vectorborne Surveillance in Ohio October 29, 2020

This update provides detailed mosquito and tick surveillance information not included in the **Ohio Vectorborne Surveillance Update**.



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 10/29/2020:

2020 Ohio Mosquito Surveillance Summary, as of 10/29/20						
Counties (37 total)	Agencies (43 total)	Mosquitoes Identified	Mosquitoes Tested	Pools Pending	Pools Reported	WNV + Pools
Ashland	Ashland County-City Health Department	115	3	0	3	0
Athens	Athens City-County Health Department	1,256	505	0	15	0
Carroll	Carroll County General Health District	647	520	0	17	0
Clark	Clark County Combined Health District	21,046	13,495	0	323	22
Clermont	Clermont County Public Health	2,535	1,774	0	56	0
Crawford	Galion City Health Department	196	45	0	5	1
Cuyahoga	Cuyahoga County Board of Health	2,479	1,057	0	35	2
Fairfield	Fairfield Department of Health	1,348	403	0	14	0
	Franklin County Public Health	2,148	1,381	0	38	1
Franklin	Franklin County Public Health	80,419	50,942	0	1,408	128
	Columbus Public Health	77,256	77,256	0	1,876	415
Gallia	Gallia County Health Department	43	0	0	0	0
Greene	Greene County Public Health	77	0	0	0	0
Hamilton	Hamilton County Public Health	669	208	0	7	0
	Cincinnati Health Department	2,635	1,435	0	67	4
Hancock	Hancock Public Health	478	88	0	4	0
Hocking	Hocking County Health Department	1,517	232	0	13	0
Lake	Lake County General Health District	8,311	4,642	0	132	12
Licking	Licking County Health Department	5,844	0	0	0	0

2020 Ohio Mosquito Surveillance Summary, as of 10/29/20

Counties (37 total)	Agencies (43 total)	Mosquitoes Identified	Mosquitoes Tested	Pools Pending	Pools Reported	WNV + Pools
Lorain	Lorain County Public Health	7,612	4,997	0	128	0
Lucas	Toledo Area Sanitary District	6,503	6,375	0	328	68
Mahoning	Mahoning County District Board of Health	399	69	0	3	0
Medina	Medina County Health Department	573	46	0	3	0
Meigs	Meigs County Health Department	807	38	0	8	0
Miami	Miami County Public Health	254	76	0	5	0
Montgomery	Public Health - Dayton & Montgomery County	65	0	0	0	0
Muskingum	Zanesville-Muskingum County Health Department	155	0	0	0	0
Perry	Perry County General Health District	501	257	0	7	0
Pickaway	Pickaway County General Health District	1,207	401	0	13	0
Portage	Portage County Health District	7,575	4,107	0	133	0
	Kent City Health Department	29,238	8,921	0	220	2
Richland	Richland Public Health	21,780	15,979	0	366	4
	Shelby City Health Department	1,831	613	0	23	0
Ross	Ross County Health District	4,693	2,293	0	57	0
Scioto	Portsmouth City Health Department	1,237	305	0	15	0
Shelby	City of Sidney	319	0	0	0	0
Stark	Stark County Health Department	5,090	379	0	13	0
	Canton City Public Health	7,701	4,158	0	117	0
	Alliance City Health Department	454	0	0	0	0
Summit	Barberton-Norton Mosquito Abatement District	11,279	2,311	0	108	2
Tuscarawas	New Philadelphia City Health Department	990	790	0	23	0
Union	Union County Health Department	4,465	4,319	0	139	5
Vinton	Vinton County Health Department	799	384	0	17	0
Wood	Bowling Green State University	3,531	561	0	16	0
Totals:		328,077	211,365	0	5,755	666

¹ PCR testing performed by CDC-DVBD.

² RAMP testing performed by FCPH.

³ VecTOR testing performed by CPH.

Here is a breakdown by mosquito species identified:

Mosquito Species Identified	
Species	Count
<i>Aedes abserratus</i>	7
<i>Aedes albopictus</i>	5,181
<i>Aedes atropalpus</i>	12
<i>Aedes canadensis</i>	375
<i>Aedes cantator</i>	53
<i>Aedes cinereus</i>	21
<i>Aedes dorsalis</i>	1
<i>Aedes grossbecki</i>	691
<i>Aedes hendersoni</i>	37
<i>Aedes implicatus</i>	26
<i>Aedes intrudens</i>	1
<i>Aedes japonicus</i>	11,112
<i>Aedes sollicitans</i>	13
<i>Aedes sp.</i>	2,687
<i>Aedes sticticus</i>	4
<i>Aedes stimulans</i>	128
<i>Aedes triseriatus</i>	1,548
<i>Aedes trivittatus</i>	3,074
<i>Aedes vexans</i>	4,721
<i>Anopheles barberi</i>	85
<i>Anopheles perplexens</i>	66
<i>Anopheles punctipennis</i>	1,331
<i>Anopheles quadrimaculatus</i>	1,324
<i>Anopheles sp.</i>	27
<i>Anopheles walkeri</i>	12
<i>Coquillettidia perturbans</i>	4,031
<i>Culex erraticus</i>	1,459
<i>Culex sp.</i>	283,472
<i>Culiseta impatiens</i>	1
<i>Culiseta sp.</i>	8
<i>Orthopodomyia signifera</i>	42
Other Species / Unknown	6,163

Mosquito Species Identified	
Species	Count
<i>Psorophora ciliata</i>	3
<i>Psorophora columbiae</i>	10
<i>Psorophora cyanescens</i>	12
<i>Psorophora discolor</i>	1
<i>Psorophora ferox</i>	86
<i>Psorophora horrida</i>	2
<i>Psorophora sp.</i>	10
<i>Toxorhynchites sp.</i>	17
<i>Uranotaenia sapphirina</i>	221
<i>Wyeomyia smithii</i>	2
Total:	328,077

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

Breakdown of <i>Aedes albopictus</i> Identified		
County	Agency	Count
Athens	Athens City-County Health Department	3
Clermont	Clermont County Public Health	11
Crawford	Galion City Health Department	4
Cuyahoga	Cuyahoga County Board of Health	85
Fairfield	Fairfield Department of Health	59
	Franklin County Public Health	81
Franklin	Franklin County Public Health	3,892
Gallia	Gallia County Health Department	34
Greene	Greene County Public Health	7
Hamilton	Hamilton County Public Health	8
	Cincinnati Health Department	297
Hancock	Hancock Public Health	1
Hocking	Hocking County Health Department	44
Lake	Lake County General Health District	28
Mahoning	Mahoning County District Board of Health	1
Meigs	Meigs County Health Department	22

Breakdown of <i>Aedes albopictus</i> Identified		
County	Agency	Count
Miami	Miami County Public Health	1
Perry	Perry County General Health District	3
Pickaway	Pickaway County General Health District	12
Ross	Ross County Health District	33
Scioto	Portsmouth City Health Department	313
Stark	Stark County Health Department	4
	Canton City Public Health	223
Summit	Barberton-Norton Mosquito Abatement District	1
Tuscarawas	New Philadelphia City Health Department	8
Vinton	Vinton County Health Department	6
Total:		5,181

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

Breakdown of <i>Aedes triseriatus</i> Identified		
County	Agency	Count
Ashland	Ashland County-City Health Department	11
Athens	Athens City-County Health Department	6
Clark	Clark County Combined Health District	1
Clermont	Clermont County Public Health	31
Crawford	Galion City Health Department	5
Cuyahoga	Cuyahoga County Board of Health	14
Fairfield	Fairfield Department of Health	17
	Franklin County Public Health	23
Franklin	Franklin County Public Health	551
Hamilton	Hamilton County Public Health	6
	Cincinnati Health Department	44
Hocking	Hocking County Health Department	13
Lake	Lake County General Health District	35
Lorain	Lorain County Public Health	42
Lucas	Toledo Area Sanitary District	2
Mahoning	Mahoning County District Board of Health	2

Breakdown of <i>Aedes triseriatus</i> Identified		
County	Agency	Count
Medina	Medina County Health Department	2
Meigs	Meigs County Health Department	3
Miami	Miami County Public Health	4
Muskingum	Zanesville-Muskingum County Health Department	4
Perry	Perry County General Health District	6
Pickaway	Pickaway County General Health District	14
Portage	Portage County Health District	282
	Kent City Health Department	56
Richland	Richland Public Health	166
Ross	Ross County Health District	26
Scioto	Portsmouth City Health Department	5
Stark	Stark County Health Department	11
	Canton City Public Health	36
	Alliance City Health Department	4
Summit	Barberton-Norton Mosquito Abatement District	85
Tuscarawas	New Philadelphia City Health Department	18
Vinton	Vinton County Health Department	2
Wood	Bowling Green State University	21
Total:		1,548

Here is the breakdown of *Coquillettidia perturbans* collections by agency:

Breakdown of <i>Coquillettidia perturbans</i> Identified		
County	Agency	Count
Fairfield	Franklin County Public Health	7
Franklin	Franklin County Public Health	51
Hamilton	Cincinnati Health Department	1
Lake	Lake County General Health District	2
Lorain	Lorain County Public Health	10
Lucas	Toledo Area Sanitary District	1
Portage	Portage County Health District	2
	Kent City Health Department	3,775

Breakdown of <i>Coquillettidia perturbans</i> Identified		
County	Agency	Count
Richland	Richland Public Health	1
Summit	Barberton-Norton Mosquito Abatement District	140
Wood	Bowling Green State University	41
Total:		4,031



Tick Surveillance

Here is a breakdown by tick species identified:

2020 Tick Species Identified in Ohio, as of 10/29/20					
Species*	Life Stage				Totals:
	Adult Females	Adult Males	Nymphs	Larvae	
<i>Amblyomma americanum</i> (Lone Star tick)	86	17	9	1	113
<i>Amblyomma maculatum</i> (Gulf Coast tick)	1	5			6
<i>Dermacentor variabilis</i> (American Dog tick)	319	287	2		608
<i>Haemaphysalis leporispalustris</i> (Rabbit tick)			2		2
<i>Haemaphysalis longicornis</i> (Asian Longhorned tick)			1		1
<i>Ixodes cookei</i> (Groundhog tick)			6	5	11
<i>Ixodes scapularis</i> (Blacklegged tick)	124	57	58	9	248
<i>Rhipicephalus sanguineus</i> (Brown Dog tick)	1	1			2
Totals:	531	367	78	15	991

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

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

Breakdown of Blacklegged Ticks Identified					
County	Life Stage				Totals:
	Adult Females	Adult Males	Nymphs	Larvae	
Ashland	2				2
Ashtabula	1			1	2
Athens	2				2
Belmont		1			1

Breakdown of Blacklegged Ticks Identified					
County	Life Stage				Totals:
	Adult Females	Adult Males	Nymphs	Larvae	
Butler	1				1
Carroll	1				1
Clark	2		1		3
Clermont	1				1
Columbiana	3		1		4
Coshocton	29	41	7	7	84
Cuyahoga	2				2
Erie	1	2			3
Fairfield	1				1
Fayette			1		1
Franklin	1	2	1		4
Gallia	12		1		13
Geauga	1				1
Guernsey	17				17
Hancock			1		1
Hocking	2				2
Jackson	1				1
Knox	3	3	39		45
Lake		1			1
Lawrence	4				4
Licking	1		2		3
Logan	2				2
Lorain	1				1
Mahoning	4				4
Medina	2				2
Meigs			1		1
Monroe				1	1
Montgomery	1				1
Morgan	2				2
Ottawa	1				1
Perry	1	1			2
Portage	2		1		3

Breakdown of Blacklegged Ticks Identified					
County	Life Stage				Totals:
	Adult Females	Adult Males	Nymphs	Larvae	
Stark	1				1
Summit	10	5			15
Trumbull	1				1
Tuscarawas	1				1
Washington	1		2		3
Wayne	2				2
Wood	1	1			2
unknown	3				3
Totals:	124	57	58	9	248

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

Breakdown of American Dog Ticks Identified				
County	Life Stage			Totals:
	Adult Females	Adult Males	Nymphs	
Allen	1	1		2
Ashtabula	1	1		2
Athens	1			1
Butler	2			2
Clark	1			1
Clermont	1			1
Clinton		1		1
Columbiana		1		1
Coshocton	1			1
Cuyahoga	2	3		5
Defiance		1		1
Delaware	2	2		4
Erie		1		1
Fairfield	3			3
Franklin	36	39		75
Gallia	3	4	1	8
Geauga		4		4

Breakdown of American Dog Ticks Identified				
County	Life Stage			Totals:
	Adult Females	Adult Males	Nymphs	
Greene		2		2
Hamilton	86	74		160
Hancock	1	1		2
Hardin	1			1
Henry		1		1
Highland	1			1
Hocking	1	2		3
Huron	3	1		4
Jackson	9	1		10
Knox	80	45	1	126
Lake	8	8		16
Lawrence	2	3		5
Licking		1		1
Logan		1		1
Lorain	4	5		9
Lucas	2	3		5
Madison	21	25		46
Mahoning	3	3		6
Marion		1		1
Medina	7	11		18
Miami		2		2
Montgomery	2	1		3
Morgan	3	2		5
Muskingum	2	1		3
Pickaway		2		2
Portage	1	3		4
Richland	1	1		2
Ross		1		1
Scioto	3	5		8
Stark	1	1		2
Summit	15	16		31
Trumbull		1		1

Breakdown of American Dog Ticks Identified				
County	Life Stage			Totals:
	Adult Females	Adult Males	Nymphs	
Tuscarawas	1	1		2
Vinton	4	2		6
Warren	1	1		2
Wayne	2			2
Williams		1		1
Totals:	319	287	2	608

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

Breakdown of Lone Star Ticks Identified					
County	Life Stage				Totals:
	Adult Females	Adult Males	Nymphs	Larvae	
Adams				1	1
Clermont		1			1
Gallia	6	1	8		15
Hamilton	4	1	1		6
Highland	2	1			3
Hocking		1			1
Jackson	8				8
Lawrence	4	5			9
Licking		2			2
Meigs		1			1
Muskingum	1				1
Pike	50				50
Scioto	7	2			9
Summit	1				1
Vinton	3	2			5
Totals:	86	17	9	1	113