Vectorborne Surveillance in Ohio August 1, 2019

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 08/01/2019:

	2019* Mosquitoes Submitted to ODH ZDP for Arbovirus Testing							
Counties (66 total)	Agencies (77 total)	# Mosquitoes Submitted	# Culex spp. Pooled	# Pooled Samples Pending	# Pooled Samples Reported	# WNV+ Samples		
Adams	Adams County Health Department (w/ODH)	1,294	1,157	0	31	0		
Ashland	Ashland County-City Health Department	249	71	0	13	0		
	Ashtabula City Health Department	171	135	0	7	0		
Ashtabula	Ashtabula County Health Department	127	124	0	4	0		
Athens	Athens City-County Health Department	4,116	3,649	13	111	1		
Auglaize	Auglaize County Health Department (w/ODH)	1,628	1,327	21	21	0		
Brown	Brown County Health Department (w/ODH)	1,215	960	0	27	0		
Butler	Butler County Health Department	1,535	1,423	11	41	1		
Champaign	Champaign Health District	20	6	2	3	0		
Clark	Clark County Combined Health District	3,800	3,101	0	113	2		
Clermont	Clermont County Public Health	1,844	1,667	15	46	0		
Clinton	Clinton County Health District (w/ODH)	1,867	992	0	35	0		
Columbiana	Columbiana County Health District	213	131	0	19	0		
Coshocton	Coshocton County Health Department	575	480	0	12	0		
Crawford	Galion City Health Department	991	917	13	16	0		
Cuyahoga	Cuyahoga County Board of Health	4,539	3,492	24	104	0		
Darke	Darke County General Health District	333	30	2	9	0		
Defiance	Defiance County General Health District (w/ODH)	1,202	933	13	16	0		

	2019* Mosquitoes Submitted to ODH ZDP for Arbovirus Testing							
Counties (66 total)	Agencies (77 total)	# Mosquitoes Submitted	# Culex spp. Pooled	# Pooled Samples Pending	# Pooled Samples Reported	# WNV+ Samples		
Delaware	Delaware General Health District	1,653	897	14	108	0		
Erie	Erie County Health Department (w/ODH)	1,303	976	0	34	0		
Fairfield	Fairfield Department of Health	264	159	0	20	0		
rairileiu	Franklin County Public Health	843	644	0	21	0		
Fayette	Fayette County Health Department	8	2	0	2	0		
Franklin	Columbus Public Health	19,710	19,633	50	456	12		
FIANKIII	Franklin County Public Health	48,862	42,603	3	1,108	5		
Fulton	Fulton County Health Department (w/ODH)	557	438	8	10	0		
Geauga	Geauga County Health District	675	513	0	13	0		
Greene	Greene County Public Health	205	169	5	5	0		
	Cincinnati Health Department	1,243	1,024	16	36	0		
Hamilton	Hamilton County Public Health	5,342	4,354	37	124	1		
	Springdale Health Department	1,732	1,326	7	81	0		
Hancock	Hancock Public Health	8,466	7,833	27	193	0		
Hardin	Kenton-Hardin Health Department (w/ODH)	1,786	1,216	17	24	0		
Highland	Highland County Health Department (w/ODH)	834	575	0	21	0		
Hocking	Hocking County Health Department	2,419	1,499	17	118	0		
Jackson	Jackson County Health Department	563	548	0	15	0		
Knox	Knox County Health Department	2,660	2,178	4	65	0		
Lake	Lake County General Health District	5,784	4,888	0	160	0		
Lawrence	Lawrence County Health Department	30	6	0	1	0		
Licking	Licking County Health Department	11,961	11,401	0	312	0		
Logan	Logan County Health District (w/ODH)	528	403	0	18	0		
Lorain	Lorain County Public Health	16,228	14,963	61	286	0		
Lucas	Toledo Area Sanitary District	22,492	22,415	95	708	3		
Madison	Madison County Public Health	9	7	0	2	0		
Mahoning	Mahoning County District Board of Health	259	193	0	18	0		
	Youngstown City Health District	148	114	0	11	2		
Medina	Medina County Health Department	3,357	3,056	12	85	1		
Meigs	Meigs County Health Department	418	156	0	37	0		
Miami	Miami County Public Health	857	519	11	40	0		
Montgomery	Public Health - Dayton & Montgomery County	1,497	1,398	0	40	0		

	2019* Mosquitoes Submitted to ODH ZDP for Arbovirus Testing						
Counties (66 total)	Agencies (77 total)	# Mosquitoes Submitted	# Culex spp. Pooled	# Pooled Samples Pending	# Pooled Samples Reported	# WNV+ Samples	
Morrow	Morrow County Health District (w/ODH)	319	44	0	6	0	
Muskingum	Zanesville-Muskingum County Health Department	244	182	4	7	0	
Paulding	Paulding County Health Department (w/ODH)	1,550	1,033	10	27	0	
Perry	Perry County General Health District	30	14	0	4	0	
Pickaway	Pickaway County General Health District	3,358	2,931	17	100	0	
Pike	Pike County General Health District	243	130	7	3	0	
Dortogo	Kent City Health Department	25,848	20,027	14	549	0	
Portage	Portage County Health District	9,210	8,381	30	239	0	
Dichland	Richland Public Health	8,914	7,147	0	195	0	
Richland	Shelby City Health Department	1,030	969	13	16	0	
Ross	Ross County Health District	7,949	7,615	0	200	1	
Sandusky	Sandusky County Health Department (w/ODH)	695	377	0	21	0	
Scioto	Portsmouth City Health Department	799	333	8	33	0	
301010	Scioto County Health Department	1,385	1,079	0	57	1	
Shelby	City of Sidney	425	6	0	4	0	
Stark	Canton City Public Health	1,974	1,348	0	137	0	
Stark	Stark County Health Department	6,708	6,192	0	192	0	
Summit	Barberton-Norton Mosquito Abatement District	18,496	14,295	0	539	0	
	Summit County Public Health	41,714	39,555	23	1,011	3	
Trumbull	Trumbull County Combined Health District	73	60	0	8	0	
Tuscarawas	New Philadelphia City Health Department	252	156	5	9	0	
Tuscarawas	Tuscarawas County Health Department	4,166	3,710	0	116	0	
Union	Union County Health Department	3,315	2,723	8	73	1	
Van Wert	Van Wert County General Health District (w/ODH)	1,182	918	16	14	0	
Vinton	Vinton County Health Department	787	717	15	15	0	
Warren	Warren County Health District	2,251	2,078	0	48	0	
Wood	Bowling Green State University	2,359	659	15	52	0	
Wyandot	Wyandot County Public Health	209	183	0	7	0	
Totals:		333,897	289,563	683	8,482	34	

Here is a breakdown by mosquito species identified:

Mosquito Species Identified				
Species	#			
Aedes albopictus	909			
Aedes atropalpus	19			
Aedes aurifer	173			
Aedes canadensis	255			
Aedes cantator	587			
Aedes cinereus	286			
Aedes communis	3			
Aedes dorsalis	1			
Aedes grossbecki	24			
Aedes hendersoni	4			
Aedes implicatus	11			
Aedes japonicus	17,020			
Aedes provocans	3			
Aedes sollicitans	85			
Aedes sp.	745			
Aedes spencerii	1			
Aedes sticticus	530			
Aedes stimulans	720			
Aedes triseriatus	1,399			
Aedes trivittatus	2,711			
Aedes vexans	4,772			
Anopheles barberi	68			
Anopheles perplexens	2			
Anopheles punctipennis	2,113			
Anopheles quadrimaculatus	418			
Anopheles sp.	11			
Anopheles walkeri	18			
Coquillettidia perturbans	1,273			
Culex sp.	298,816			
Culiseta impatiens	2			
Culiseta inornata	215			
Culiseta minnesotae	1			
Culiseta sp.	17			
Orthopodomyia alba	1			
Orthopodomyia signifera	70			
Psorophora ciliata	32			

Mosquito Species Identified					
Species	#				
Psorophora columbiae	303				
Psorophora cyanescens	5				
Psorophora discolor	31				
Psorophora ferox	141				
Psorophora horrida	8				
Psorophora sp.	4				
Toxorhynchites sp.	2				
Uranotaenia sapphirina	86				
Wyeomyia smithii	2				
Total:	333,897				

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

Breakdown of Aedes albopictus Mosquitoes Identified					
County	Agency	#			
Adams	Adams County Health Department (w/ODH)	58			
Ashland	Ashland County-City Health Department	26			
Athens	Athens City-County Health Department	41			
Brown	Brown County Health Department (w/ODH)	60			
Butler	Butler County Health Department	2			
Clark	Clark County Combined Health District	3			
Clermont	Clermont County Public Health	5			
Clinton	Clinton County Health District (w/ODH)	15			
Darke	Darke County General Health District	2			
Delaware	Delaware General Health District	2			
Fairfield	Fairfield Department of Health	11			
Franklin	Columbus Public Health	1			
Franklin	Franklin County Public Health	38			
Greene	Greene County Public Health	2			
	Cincinnati Health Department	65			
Hamilton	Hamilton County Public Health	111			
	Springdale Health Department	67			
Hancock	Hancock Public Health	1			
Highland	Highland County Health Department (w/ODH)	14			
Hocking	Hocking County Health Department	58			
Lake	Lake County General Health District	2			
Lawrence	Lawrence County Health Department	1			

Breakdown of Aedes albopictus Mosquitoes Identified					
County	County Agency				
Licking	Licking County Health Department	2			
Lorain	Lorain County Public Health	1			
Meigs	Meigs County Health Department	41			
Miami	Miami County Public Health	4			
Montgomery	Public Health - Dayton & Montgomery County	1			
Muskingum	Zanesville-Muskingum County Health Department	2			
Pickaway	Pickaway County General Health District	25			
Pike	Pike County General Health District	50			
Portage	Portage County Health District	1			
Ross	Ross County Health District	49			
Caiata	Portsmouth City Health Department	68			
Scioto	Scioto County Health Department	60			
Stark	Canton City Public Health	13			
Vinton	Vinton County Health Department	2			
Warren	Warren County Health District	5			
Total: 909					

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

Breakdown of Aedes triseriatus Mosquitoes Identified					
County	Agency	#			
Adams	Adams County Health Department (w/ODH)	8			
Ashland	Ashland County-City Health Department	2			
Athens	Athens City-County Health Department	25			
Auglaize	Auglaize County Health Department (w/ODH)	19			
Brown	Brown County Health Department (w/ODH)	4			
Butler	Butler County Health Department	3			
Champaign	Champaign Health District	1			
Clark	Clark County Combined Health District	2			
Clermont	Clermont County Public Health	8			
Clinton	Clinton County Health District (w/ODH)	2			
Columbiana	Columbiana County Health District	3			
Coshocton	Coshocton County Health Department	1			
Crawford	Galion City Health Department	3			
Cuyahoga	Cuyahoga County Board of Health	29			
Darke	Darke County General Health District	1			
Defiance	Defiance County General Health District (w/ODH)	34			

County	Agency	#
Delaware	Delaware General Health District	34
Erie	Erie County Health Department (w/ODH)	3
Fairfield	Fairfield Department of Health	6
	Columbus Public Health	2
Franklin	Franklin County Public Health	50
Fulton	Fulton County Health Department (w/ODH)	2
Geauga	Geauga County Health District	21
	Cincinnati Health Department	12
Hamilton	Hamilton County Public Health	31
	Springdale Health Department	89
Hancock	Hancock Public Health	37
Hardin	Kenton-Hardin Health Department (w/ODH)	3
Highland	Highland County Health Department (w/ODH)	4
Hocking	Hocking County Health Department	14
Knox	Knox County Health Department	9
Lake	Lake County General Health District	8
Licking	Licking County Health Department	10
Logan	Logan County Health District (w/ODH)	5
Lorain	Lorain County Public Health	48
Makanina	Mahoning County District Board of Health	1
Mahoning	Youngstown City Health District	1
Medina	Medina County Health Department	8
Meigs	Meigs County Health Department	18
Miami	Miami County Public Health	1
Muskingum	Zanesville-Muskingum County Health Department	2
Paulding	Paulding County Health Department (w/ODH)	9
Perry	Perry County General Health District	3
Pickaway	Pickaway County General Health District	14
Pike	Pike County General Health District	5
Doutous	Kent City Health Department	50
Portage	Portage County Health District	95
Diabland	Richland Public Health	164
Richland	Shelby City Health Department	1
Ross	Ross County Health District	16
Sandusky	Sandusky County Health Department (w/ODH)	3
Caiata	Portsmouth City Health Department	15
Scioto	Scioto County Health Department	14

Breakdown of Aedes triseriatus Mosquitoes Identified					
County	Agency	#			
Stark	Canton City Public Health	10			
Stark	Stark County Health Department	4			
Summit	Barberton-Norton Mosquito Abatement District	83			
Summit	Summit County Public Health	209			
Tuggerouse	New Philadelphia City Health Department	9			
Tuscarawas	Tuscarawas County Health Department	82			
Union	Union County Health Department	6			
Van Wert	Van Wert County General Health District (w/ODH)	7			
Warren Warren County Health District		7			
Wood	Bowling Green State University	27			
Total:					



Here is a breakdown by tick species identified:

2019* Tick Species Identified by ODH ZDP						
Life Stage						
Species	Adult Female	Adult Male	Nymph	Totals		
Amblyomma americanum (Lone Star tick)	21	15	44	80		
Dermacentor variabilis (American Dog tick)	168	142	1	311		
lxodes scapularis (Blacklegged tick)	247	168	22	437		
Totals:	436	325	67	828		

*Updated 8/5/19

Here is a breakdown of *lx. scapularis* submissions and collections by county:

Breakdown of <i>Ixodes scapularis</i> Ticks Identified						
		Life Stage				
County	Adult Female	Adult Male	Nymph	Totals		
Ashland	5	7	2	14		
Ashtabula	7	0	0	7		
Belmont	28	32	0	60		
Butler	1	0	0	1		
Clark	0	0	2	2		
Columbiana	16	11	0	27		
Coshocton	1	0	0	1		
Cuyahoga	1	0	1	2		
Erie	2	0	0	2		
Fayette	1	1	0	2		
Franklin	0	1	0	1		
Gallia	2	1	0	3		
Geauga	0	0	1	1		
Greene	0	0	1	1		
Highland	2	1	0	3		
Hocking	2	0	0	2		
Huron	1	1	0	2		

Breakdown of <i>Ixodes scapularis</i> Ticks Identified				
	Life Stage			
County	Adult Female	Adult Male	Nymph	Totals
Jefferson	28	24	0	52
Knox	10	0	2	12
Lake	0	1	1	2
Lawrence	4	5	0	9
Licking	0	0	2	2
Lucas	0	0	2	2
Madison	0	0	1	1
Medina	3	1	2	6
Monroe	8	1	0	9
Morgan	15	15	0	30
Muskingum	5	2	0	7
Noble	0	1	0	1
Perry	6	8	0	14
Pike	10	8	0	18
Portage	4	0	1	5
Richland	4	4	0	8
Ross	0	1	0	1
Scioto	2	4	0	6
Stark	13	18	3	34
Summit	60	20	1	81
Trumbull	1	0	0	1
Warren	1	0	0	1
Washington	1	0	0	1
Wood	2	0	0	2
Unknown	1	0	0	1
Totals:	247	168	22	437