

VECTOR SURVEILLANCE IN NEW JERSEY

EEE, WNV, SLE, LAC, DENV, CHIK and ZIKV

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 CDC WEEK 29: 17 July to 23 July, 2016



This New Jersey Agricultural Experiment Station report is supported by Rutgers University, Hatch funds, funding from the NJ State Mosquito Control Commission and with the participation of the Department of Health, Department of Agriculture and of the 21 county mosquito control agencies of New Jersey.

Culiseta melanura and Eastern Equine Encephalitis

SITE/Boxes	Inland or Coastal	Historic Population Mean	Current Weekly Mean	Total Tested* (Collected)	Total Pools Tested* (Submitted)	EEE Isolation Pools	MFIR
Bass River (Burlington Co.)/5	Coastal	0.00	0.00	1	1		
Green Bank (Burlington Co.)/25	Coastal	2.58	0.00	17 [‡]	4		
Corbin City (Atlantic Co.)/25	Coastal	0.89	0.24	61(67) [‡]	9 (10)		
Dennisville (Cape May Co.)/50	Coastal	3.57	0.00	37	7		
Winslow (Camden Co.)/50	Inland	1.78	1.42	523	13		
Centerton (Salem Co.)/50	Inland	2.07	0.56	140	8		
Turkey Swamp (Monmouth Co.)/50	Inland	1.02	0.08	19 (23)	8 (9)		
Glassboro (Gloucester Co.)/50	Inland	0.65	0.06	77	8		

*Current week (in parentheses) results pending. ‡ corrected NC=no collection

Remarks: No new positive EEE pools were detected in NJ. Last week, the first positive EEE pools in New Jersey were detected in two pools of *Culex pipiens* in Cape May collected 6 July 2016 at a non-traditional site. In 2015, the first detection of EEE in a pool of *Culiseta melanura* was collected at the Winslow resting box site on the 27th of July.

Traditional Resting Box Sites: 875 *Cs. melanura* from 58 pools have been tested for EEE, with 2 pools of 10 *Cs. melanura* to be tested. No positives at these traditional sites have been detected. Statewide, 1953 *Cs. melanura* have been tested, with no positives currently in *Cs. melanura*. 8941 specimens from 12 other species have also been tested, with two reported positives *Culex pipiens* pools.

		Additional <i>Cs. melanura</i> trapped by counties *traps with positives indicated in BOLD .			
County	Trap types*	Pools	Mosquitoes	Positives	MFIR
Atlantic	Co ₂ , RB	13	114		
Burlington	Co ₂	23	444		
Cape May	CDC, Co ₂ , GR, RB	48	99		
Cumberland	RB	3	10		
Middlesex	RB	26	387		
Ocean	Co ₂ , GR	9	24		
TOTAL		122	1078		

Additional *Cs. melanura*: Counties maintain trap sites for *Cs. melanura* in other areas, using a variety of traps. No positives have been detected.

Species other than <i>Cs. melanura</i>	Pools	Mosquitoes	Positives	MFIR
<i>Aedes cantator</i>	19	46		
<i>Aedes sollicitans</i>	4	64		
<i>Anopheles bradleyi</i>	18	117		
<i>Anopheles crucians</i>	1	4		
<i>Anopheles punctipennis</i>	7	11		
<i>Anopheles quadrimaculatus</i>	1	1		
<i>Coquillettidia perturbans</i>	53	752		
<i>Culex erraticus</i>	10	56		
<i>Culex pipiens</i>	401	6512	2	0.307
<i>Culex restuans</i>	1	3		
<i>Culex salinarius</i>	126	1277		
<i>Culex</i> sp.	31	86		
<i>Culex territans</i>	1	12		
State Total	673	8941	2	0.224

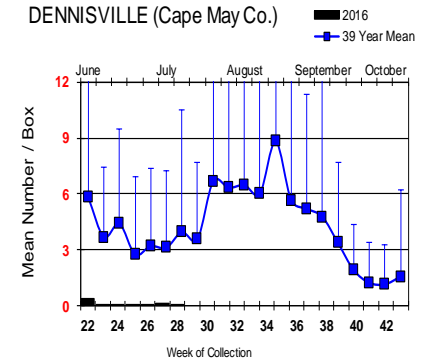
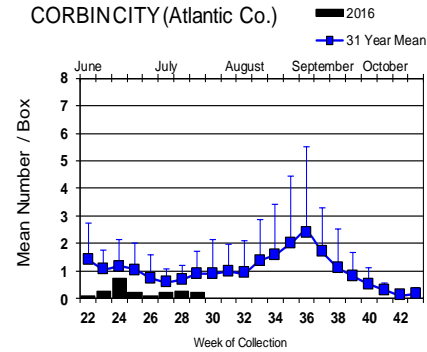
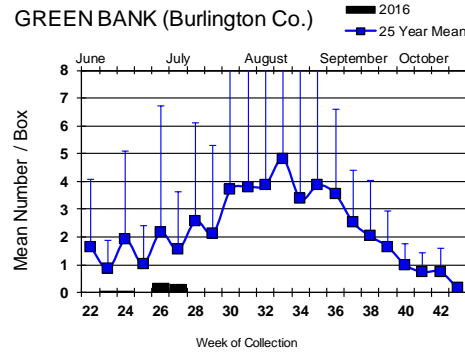
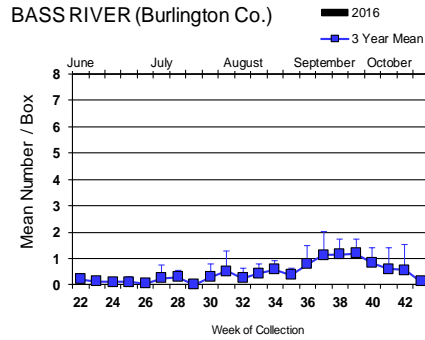
Additional Species: Twelve additional species were tested for EEE. First positive pools were detected in *Culex pipiens*, an ornithophilic species, in Cape May, collected on 6 July.

Horses and Humans: No positive horse or humans have been reported. Last year one positive horse was reported.

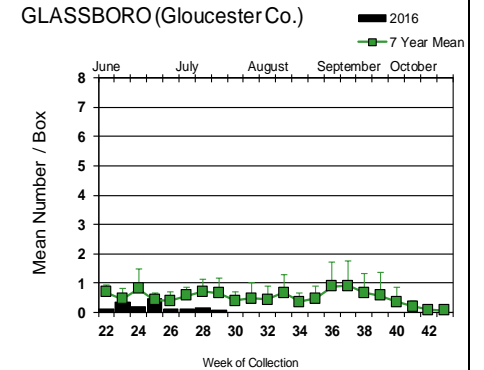
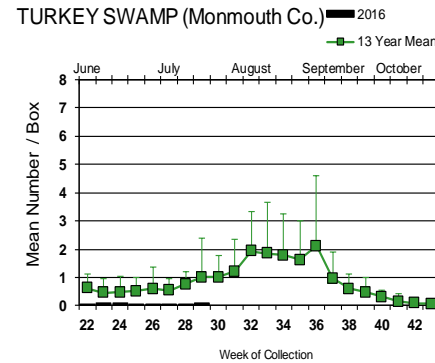
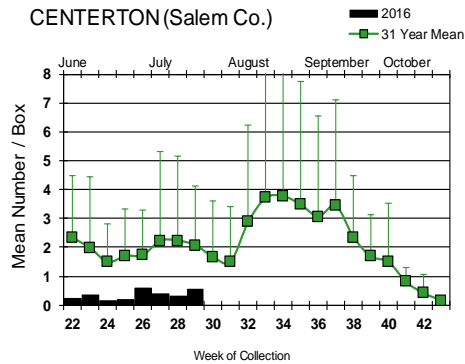
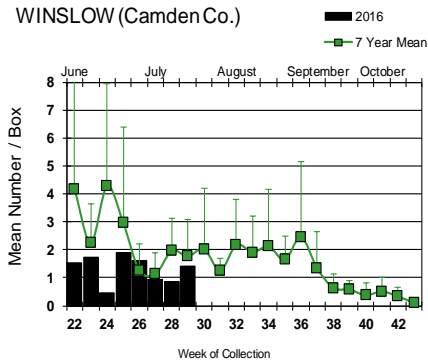
Horses and Vaccinations: The fate of unvaccinated equids reinforces the necessity of maintaining a vaccination schedule for arboviruses. For vaccination schedules recommended by the American Association of Equine Practices, see: http://www.aaep.org/vaccination_guidelines.htm

Culiseta melanura Population Graphs

Coastal



Inland



Low numbers continue to be reported for *Cs. melanura* populations at the traditional resting box sites. It should be noted that the first positive pools detected in *Culex pipiens* at a non-traditional site in Cape May illustrates virus circulating in avian hosts but are probably not involved as bridge vectors as *Cx. pipiens* appears to clear virus relatively quickly (Sardelis, M. R., Dohm, D. J., Pagac, B., Andre, R. G., & Turell, M. J. (2002). Experimental transmission of eastern equine encephalitis virus by *Ochlerotatus j. japonicus* (Diptera: Culicidae). *Journal of Medical Entomology*, 39(3), 480–484. doi:10.1603/0022-2585-39.3.480).

= Positive pool(s) detected (red = melanura, purple = other species).

EEE in US (2016 cumulative cases): (Black or Red = previous + new reported cases occurring)

- equine: FL(12) NC(1) SC(8) VA(2)
- mosquito pools: NJ(2) MA(1)
- sentinel: FL(50) GA(2) TX(21)
- human:

West Nile Virus Positive Organisms in US, 2016

West Nile in US (2016 cumulative cases): Single black values indicate no change from previous week. Black values / red values equals previous week/**New totals**.
 Note: Data reported by all states should be considered provisional and subject to change. Sources for this table can be found [here](#).

	Birds	Mosquito Pools	Sentinels	Horses	Humans
Alabama					1
Alaska					
Arizona	0	39	0	0	18/22
Arkansas				0	0
California	547/656	896/1159	19/30	2	0
Colorado		9			3
Connecticut		1			0
Delaware					
DC					
Florida		2	50	1	
Georgia		0			0
Hawaii					
Idaho	0	4		0	0
Illinois	2/3	100/114		0	3
Indiana	0	10/16		0	1
Iowa		1			0
Kansas		0			0
Kentucky				0	
Louisiana					0
Maine		0			0
Maryland					
Mass.		3/10		0	0
Michigan		3			
Minnesota					
Mississippi		3/20			4
Missouri		0		0	0

	Birds	Mosquito Pools	Sentinels	Horses	Humans
Montana					
Nebraska	2	15/23		0	1/3
Nevada					1
New Hampshire		0		0	0
New Jersey		12/14		0	1
New Mexico					
New York		5			
North Carolina					
North Dakota	4/6	4/12		0	1/2
Ohio		1		0	1
Oklahoma		7			2
Oregon	0	2	0	0	0
Pennsylvania	2	54/90			1
Rhode Island		0			
South Carolina					
South Dakota					6
Tennessee					
Texas		330		2	7
Utah		6/12			
Vermont					
Virginia					
Washington	0	18/27		1	0
West Virginia					
Wisconsin	5	0		0	0
Wyoming					0

* Can include other species (e.g., dogs, cows) reported positive.

Protocol: New Jersey Department of Health (NJDH Public Health Environmental and Agricultural Laboratories, PHEAL) and the Cape May County Department of Mosquito Control tests mosquito pools using RT-PCR Taqman techniques.

Mosquito Species Submitted and Tested for West Nile Virus Testing through 23 July 2016

Species	Pools	Mosquitoes	Positives	MFIR
<i>Aedes albopictus</i>	358	1592		
<i>Aedes atropalpus</i>	15	51		
<i>Aedes canadensis canadensis</i>	24	389		
<i>Aedes cantator</i>	27	236		
<i>Aedes grossbecki</i>	1	1		
<i>Aedes japonicus</i>	262	1363		
<i>Aedes sollicitans</i>	7	175		
<i>Aedes sticticus</i>	1	6		
<i>Aedes taeniorhynchus</i>	8	290		
<i>Aedes triseriatus</i>	96	209		
<i>Aedes vexans</i>	21	174		
<i>Anopheles atropos</i>	1	1		
<i>Anopheles barberi</i>	2	2		
<i>Anopheles bradleyi</i>	23	249		
<i>Anopheles crucians</i>	2	9		
<i>Anopheles punctipennis</i>	26	41		
<i>Anopheles quadrimaculatus</i>	35	301		
<i>Coquillettidia perturbans</i>	68	1495		
<i>Culex erraticus</i>	12	61		
<i>Culex pipiens</i>	532	14185	2	0.141
<i>Culex restuans</i>	526	6586		
<i>Culex salinarius</i>	129	1385		
<i>Culex</i> spp.	1174	47656	12	0.252
<i>Culex territans</i>	10	98		
<i>Culiseta melanura</i>	178	1875		
<i>Psorophora ciliata</i>	1	1		
<i>Psorophora columbiae</i>	3	3		
<i>Psorophora ferox</i>	3	26		
Grand Total	3545	78460	14	0.178

Remarks: To date, 3545 pools of 78,460 mosquitoes from 27 species have been tested, with 14 positive pools detected, all in *Culex*. This first positive pool of *Culex* Mix was collected on 14 June in Monmouth County.

Humans, Horses and Wild Birds: One human from Camden County had been reported with WNV, onset of early July. Last year 26 humans and one horse were positive. Onset in 2015 for humans began in early August and the onset for the horse case began in September. For further information, see <http://www.state.nj.us/health/cd/westnile/techinfo.shtml>.

Birds are no longer routinely tested in New Jersey.

WNV Results by County through 23 July 2016

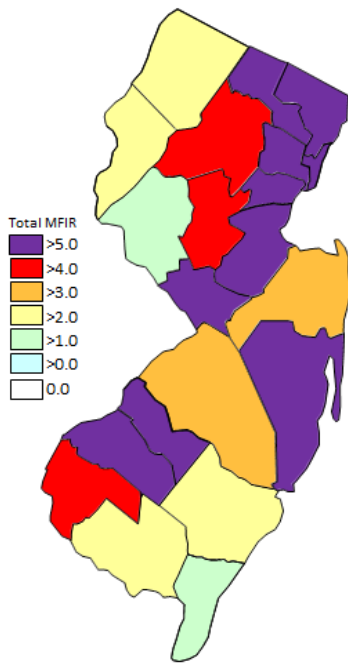
County	Species	Pools	Mosquitoes	Positives	MFIR
Atlantic		84	2285	2	0.875
	<i>Aedes albopictus</i>	8	25		
	<i>Aedes japonicus</i>	1	4		

	<i>Aedes sollicitans</i>	2	108		
	<i>Aedes sticticus</i>	1	6		
	<i>Aedes taeniorhynchus</i>	4	266		
	<i>Aedes vexans</i>	4	134		
	<i>Anopheles bradleyi</i>	1	10		
	<i>Coquillettidia perturbans</i>	10	76		
	<i>Culex erraticus</i>	1	21		
	<i>Culex pipiens</i>	11	609	2	3.284
	<i>Culex restuans</i>	3	52		
	<i>Culex salinarius</i>	4	123		
	<i>Culex spp.</i>	11	664		
	<i>Culiseta melanura</i>	22	175		
	<i>Psorophora ferox</i>	1	12		
Bergen		70	4880	3	0.615
	<i>Aedes albopictus</i>	5	20		
	<i>Aedes japonicus</i>	1	60		
	<i>Culex spp.</i>	64	4800	3	0.625
Burlington		85	3034	1	0.330
	<i>Aedes albopictus</i>	5	58		
	<i>Aedes atropalpus</i>	2	15		
	<i>Aedes japonicus</i>	6	111		
	<i>Aedes triseriatus</i>	4	10		
	<i>Anopheles barberi</i>	1	1		
	<i>Anopheles bradleyi</i>	1	6		
	<i>Anopheles crucians</i>	1	4		
	<i>Culex salinarius</i>	11	362		
	<i>Culex spp.</i>	34	2091	1	0.478
	<i>Culex territans</i>	1	12		
	<i>Culiseta melanura</i>	19	364		
Camden		77	2698	2	0.741
	<i>Aedes albopictus</i>	6	24		
	<i>Aedes japonicus</i>	10	30		
	<i>Culex spp.</i>	48	2121	2	0.943
	<i>Culiseta melanura</i>	13	523		
Cape May		1429	12533		
	<i>Aedes albopictus</i>	71	104		
	<i>Aedes atropalpus</i>	13	36		
	<i>Aedes canadensis canadensis</i>	5	8		
	<i>Aedes cantator</i>	19	46		
	<i>Aedes japonicus</i>	135	287		
	<i>Aedes sollicitans</i>	2	4		
	<i>Aedes taeniorhynchus</i>	2	2		
	<i>Aedes triseriatus</i>	60	116		
	<i>Aedes vexans</i>	3	5		
	<i>Anopheles atropos</i>	1	1		
	<i>Anopheles bradleyi</i>	17	111		
	<i>Anopheles punctipennis</i>	6	7		
	<i>Anopheles quadrimaculatus</i>	30	293		
	<i>Coquillettidia perturbans</i>	23	412		
	<i>Culex erraticus</i>	4	12		
	<i>Culex pipiens</i>	402	6516		
	<i>Culex restuans</i>	442	3851		

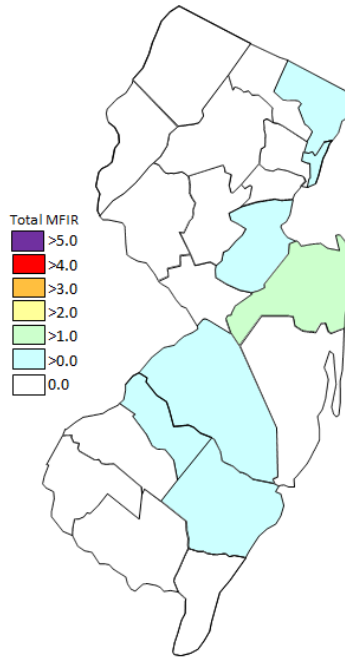
<i>Culex salinarius</i>	102	422		
<i>Culex spp.</i>	27	77		
<i>Culex territans</i>	9	86		
<i>Culiseta melanura</i>	55	136		
<i>Psorophora ferox</i>	1	1		
Cumberland	38	702		
<i>Aedes albopictus</i>	1	1		
<i>Aedes cantator</i>	1	1		
<i>Aedes japonicus</i>	3	6		
<i>Aedes sollicitans</i>	2	60		
<i>Aedes taeniorhynchus</i>	2	22		
<i>Anopheles bradleyi</i>	4	122		
<i>Anopheles crucians</i>	1	5		
<i>Anopheles punctipennis</i>	1	2		
<i>Anopheles quadrimaculatus</i>	1	3		
<i>Coquillettidia perturbans</i>	3	29		
<i>Culex salinarius</i>	11	423		
<i>Culex spp.</i>	1	2		
<i>Culiseta melanura</i>	3	10		
<i>Psorophora ciliata</i>	1	1		
<i>Psorophora columbiae</i>	2	2		
<i>Psorophora ferox</i>	1	13		
Essex	91	362		
<i>Aedes albopictus</i>	27	99		
<i>Aedes japonicus</i>	5	8		
<i>Aedes triseriatus</i>	2	2		
<i>Anopheles punctipennis</i>	1	1		
<i>Culex spp.</i>	56	252		
Gloucester	128	6975		
<i>Aedes albopictus</i>	3	49		
<i>Aedes japonicus</i>	9	141		
<i>Aedes triseriatus</i>	1	4		
<i>Anopheles punctipennis</i>	1	3		
<i>Culex pipiens</i>	106	6701		
<i>Culiseta melanura</i>	8	77		
Hudson	81	3817	1	0.262
<i>Aedes albopictus</i>	8	115		
<i>Culex spp.</i>	73	3702	1	0.270
Hunterdon	74	3173		
<i>Culex spp.</i>	74	3173		
Mercer	130	4015		
<i>Aedes japonicus</i>	4	43		
<i>Aedes triseriatus</i>	2	24		
<i>Culex pipiens</i>	13	359		
<i>Culex restuans</i>	77	2676		
<i>Culex spp.</i>	34	913		
Middlesex	147	6261	1	0.160
<i>Aedes albopictus</i>	18	104		

<i>Culex</i> spp.	102	5769	1	0.173
<i>Culiseta melanura</i>	27	388		
Monmouth	285	2732	4	1.464
<i>Aedes albopictus</i>	143	692		
<i>Aedes canadensis canadensis</i>	18	311		
<i>Aedes cantator</i>	7	189		
<i>Aedes grossbecki</i>	1	1		
<i>Aedes japonicus</i>	15	31		
<i>Aedes sollicitans</i>	1	3		
<i>Aedes triseriatus</i>	5	12		
<i>Aedes vexans</i>	4	19		
<i>Anopheles barberi</i>	1	1		
<i>Anopheles punctipennis</i>	14	25		
<i>Anopheles quadrimaculatus</i>	2	2		
<i>Coquillettidia perturbans</i>	4	5		
<i>Culex erraticus</i>	2	5		
<i>Culex restuans</i>	1	3		
<i>Culex</i> spp.	58	1413	4	2.831
<i>Culiseta melanura</i>	9	20		
Morris	135	4861		
<i>Aedes albopictus</i>	10	30		
<i>Culex</i> spp.	125	4831		
Ocean	138	2164		
<i>Aedes albopictus</i>	33	233		
<i>Aedes canadensis canadensis</i>	1	70		
<i>Aedes japonicus</i>	19	72		
<i>Aedes triseriatus</i>	6	12		
<i>Aedes vexans</i>	1	1		
<i>Anopheles punctipennis</i>	2	2		
<i>Coquillettidia perturbans</i>	11	217		
<i>Culex erraticus</i>	2	14		
<i>Culex restuans</i>	1	2		
<i>Culex</i> spp.	48	1499		
<i>Culiseta melanura</i>	14	42		
Passaic	140	3759		
<i>Aedes albopictus</i>	2	2		
<i>Aedes japonicus</i>	35	144		
<i>Aedes triseriatus</i>	3	4		
<i>Aedes vexans</i>	9	15		
<i>Culex</i> spp.	91	3594		
Salem	99	697		
<i>Aedes albopictus</i>	16	29		
<i>Aedes japonicus</i>	10	26		
<i>Aedes triseriatus</i>	12	21		
<i>Anopheles punctipennis</i>	1	1		
<i>Anopheles quadrimaculatus</i>	2	3		
<i>Coquillettidia perturbans</i>	8	81		
<i>Culex erraticus</i>	3	9		
<i>Culex restuans</i>	2	2		
<i>Culex</i> spp.	36	384		

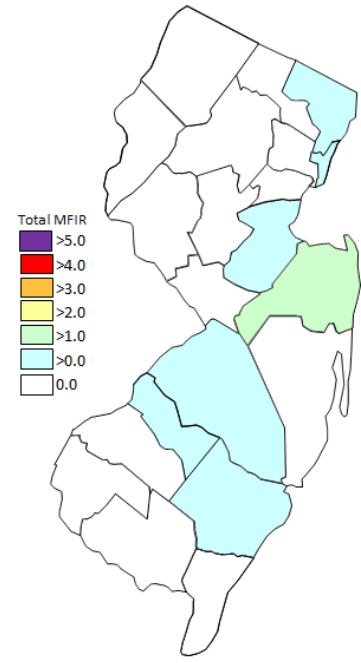
<i>Culiseta melanura</i>	8	140		
<i>Psorophora columbiae</i>	1	1		
Somerset	75	1881		
<i>Aedes albopictus</i>	2	7		
<i>Aedes triseriatus</i>	1	4		
<i>Culex</i> spp.	72	1870		
Sussex	135	5695		
<i>Aedes japonicus</i>	9	400		
<i>Coquillettidia perturbans</i>	9	675		
<i>Culex salinarius</i>	1	55		
<i>Culex</i> spp.	116	4565		
Union	15	738		
<i>Culex</i> spp.	15	738		
Warren	89	5198		
<i>Culex</i> spp.	89	5198		
Grand Total	3545	78460	14	0.178



Cumulative WNV activity in 2015.



WNV activity to 23 July 2016.



WNV activity last week, 2016.

Saint Louis Encephalitis (SLE) to 23 July 2016.

New Jersey will be primarily testing for SLE this year only when adjacent states show human activity (Cape May tests mosquitoes in the Cape May lab independently). SLE has had previous activity in New Jersey, most notably in 1964 and 1975 (CDC's SLE [website](#)), the latter prompting the surveillance reporting by Rutgers. SLE is a flavivirus and has a similar transmission pattern to West Nile, with *Culex* species as the predominant vectors.

Currently, there are no reported positive pools of SLE for 2016.

County	Species	Pools	Mosquitoes	Positives	MFIR
Burlington		35	2092		
	<i>Anopheles barberi</i>	1	1		
	<i>Culex</i> spp.	34	2091		
Cape May		428	6589		
	<i>Culex pipiens</i>	401	6512		
	<i>Culex</i> spp.	27	77		
Grand Total		463	8681		

La Crosse Encephalitis (LAC) to 23 July 2016.

New Jersey will be primarily testing for LAC this year only when adjacent states show human activity (Cape May tests mosquitoes in the Cape May lab independently). New Jersey has had 3 cases of this encephalitic disease since 1964 (see CDC's LAC [website](#)). The mortality is low but like other encephalitides, LAC can have both personal (lasting neurological sequelae) and economic impacts. LAC is a bunyavirus with a transmission cycle involving mosquitoes such as *Aedes triseriatus* and small mammals such as squirrels and chipmunks. LAC can not only infect *Aedes albopictus* but transovarial transmission was also demonstrated.

(Tesh and Gubler 1975 Laboratory studies of transovarial transmission of La Crosse and other arboviruses by *Aedes albopictus* and *Culex fatigans*. American Journal of Tropical Medicine and Hygiene 24(5):876-880).

Currently, there are no reported positive pools of LAC for 2016.

County	Species	Pools	Mosquitoes	Positives	MFIR
Burlington		17	194		
	<i>Aedes albopictus</i>	5	58		
	<i>Aedes atropalpus</i>	2	15		
	<i>Aedes japonicus</i>	6	111		
	<i>Aedes triseriatus</i>	4	10		
Grand Total		17	194		

Dengue (DENV) to 23 July 2016.

New Jersey will be selectively testing for DENV (including serotypes) this year. Dengue has not had a history of local transmission here in New Jersey, but each year, travelers can bring virus back from areas in the world with virus activity. This is significant as humans are NOT dead-end hosts and thus there is the potential for local transmission (i.e., New Jersey mosquitoes biting a sick person and then biting and transmitting the disease to someone else) to be established. DENV is a flavivirus but unlike WNV, *Aedes* mosquitoes are predominant vectors. In New Jersey, *Aedes albopictus* is a candidate for local transmission. There are 4 serotypes tested for Dengue. There are currently 40 imported human cases in New Jersey, no local transmission.

Note Same pools of *Ae. albopictus* are tested for the four serotypes of Dengue as well as Chikungunya.

No pools have tested positive in 2016.

County	Species	DENV1		DENV2		DENV3		DENV4		Positives	MFIR
		Pool	Mos.	Pool	Mos.	Pool	Mos.	Pool	Mos.		
Atlantic		8	25	8	25	8	25	8	25		
	<i>Aedes albopictus</i>	8	25	8	25	8	25	8	25		
Bergen		5	20	5	20	5	20	5	20		
	<i>Aedes albopictus</i>	5	20	5	20	5	20	5	20		
Camden		6	24	6	24	6	24	6	24		
	<i>Aedes albopictus</i>	6	24	6	24	6	24	6	24		
Cumberland		1	1	1	1	1	1	1	1		
	<i>Aedes albopictus</i>	1	1	1	1	1	1	1	1		
Essex		27	99	27	99	27	99	27	99		
	<i>Aedes albopictus</i>	27	99	27	99	27	99	27	99		
Hudson		8	115	8	115	8	115	8	115		
	<i>Aedes albopictus</i>	8	115	8	115	8	115	8	115		
Middlesex		19	105	19	105	19	105	19	105		
	<i>Aedes albopictus</i>	18	104	18	104	18	104	18	104		
	<i>Culiseta melanura</i>	1	1	1	1	1	1	1	1		
Monmouth		122	638	122	638	122	638	122	638		
	<i>Aedes albopictus</i>	122	638	122	638	122	638	122	638		
Morris		12	33	12	33	12	33	12	33		
	<i>Aedes albopictus</i>	10	30	10	30	10	30	10	30		
	<i>Culex spp.</i>	2	3	2	3	2	3	2	3		
Passaic		1	1	1	1	1	1	1	1		
	<i>Aedes albopictus</i>	1	1	1	1	1	1	1	1		
Salem		16	29	16	29	16	29	16	29		
	<i>Aedes albopictus</i>	16	29	16	29	16	29	16	29		
Grand Total		225	1090	225	1090	225	1090	225	1090		

Chikungunya (CHIK) to 23 July 2016.

New Jersey will be selectively testing for CHIK this year. Chikungunya is similar in symptoms to Dengue, a “breakbone” fever and has a low mortality rate. But this virus has had recent worldwide activity, and in the past year has come to the Western Hemisphere. As with Dengue, transmission can occur when a mosquito bites an infected human, then bites an uninfected human who subsequently becomes ill. CHIK is an alphavirus with *Aedes* mosquitoes as potential vectors. In New Jersey, *Aedes albopictus* is the mosquito of interest.

No pools have tested positive in 2016.

County	Species	Pools	Mosquitoes	Positives	MFIR
Atlantic		8	25		
	<i>Aedes albopictus</i>	8	25		
Bergen		5	20		
	<i>Aedes albopictus</i>	5	20		
Camden		6	24		
	<i>Aedes albopictus</i>	6	24		
Cape May		72	108		
	<i>Aedes albopictus</i>	71	104		
	<i>Culex pipiens</i>	1	4		
Cumberland		1	1		

	<i>Aedes albopictus</i>	1	1		
Essex		27	99		
	<i>Aedes albopictus</i>	27	99		
Hudson		8	115		
	<i>Aedes albopictus</i>	8	115		
Middlesex		19	105		
	<i>Aedes albopictus</i>	18	104		
	<i>Culiseta melanura</i>	1	1		
Monmouth		122	638		
	<i>Aedes albopictus</i>	122	638		
Morris		12	33		
	<i>Aedes albopictus</i>	10	30		
	<i>Culex spp.</i>	2	3		
Passaic		1	1		
	<i>Aedes albopictus</i>	1	1		
Salem		16	29		
	<i>Aedes albopictus</i>	16	29		
Grand Total		297	1198		

Zika (ZIKV) to 23 July 2016.

New Jersey will be selectively testing for ZIKV this year. Zika is an emerging arboviral threat with significant health consequences for fetuses and recent activity in the Western Hemisphere. Humans are potential hosts that can transmit through sexual activity. ZIKV is a flavivirus with *Aedes* mosquitoes as potential vectors. In New Jersey, *Aedes albopictus* is the mosquito of interest.

No pools have tested positive in 2016. Currently, New Jersey has 61 imported human cases of Zika.

County	Species	Pools	Mosquitoes	Positives	MFIR
Cape May		72	108		
	<i>Aedes albopictus</i>	71	104		
	<i>Culex pipiens</i>	1	4		
Monmouth		6	8		
	<i>Aedes albopictus</i>	6	8		
Grand Total		78	116		