VECTOR SURVEILLANCE IN NEW JERSEY

EEE, WNV, SLE, LAC, DENV and CHIK

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CDC WEEK 38: 14 September to 20 September, 2014

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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**	0.90	1.80	12 (21)	5 (6)		
Green Bank (Burlington Co.)/25	**Coastal**	2.09	1.72	179 (222)	16 (17)	1	8.62
Corbin City (Atlantic Co.)/25	**Coastal**	1.16	1.00	242 (290)	15 (16)		
Dennisville (Cape May Co.)/50	**Coastal**	3.54	0.26	443	19	5	11.63
Winslow (Camden Co.)/50	**Inland**	0.48	0.34	1206	32	3	2.52
Centerton (Salem Co.)/50	**Inland**	2.46	0.50	512	19	1	2.05
Turkey Swamp (Monmouth Co.)/50	**Inland**	0.67	0.14	169 (178)	16 (17)		
Glassboro (Gloucester Co.)/50	**Inland**	0.41	0.56	509	18		

*Current week (in parentheses) results pending.

Remarks: Three additional positive EEE pools have been detected this past week, all at Cape May County additional trap sites. Total number of positive EEE pools is 27, all in *Cs. melanura.* Statewide, for all mosquitoes tested, MFIR is 2.08, up from 1.92 of the previous week.

Traditional Resting Box Sites: No new EEE positive *Cs. melanura* pools were detected. To date, 3272 *Cs. melanura* from 140 pools have been tested for EEE at the traditional resting box sites. Overall MFIR for these traditional sites is 3.06, down from 3.26 of the previous week. Four additional pools containing 84 *Cs. melanura* remain to be tested.

Additional *Cs. melanura* trapped by counties *traps with positives indicated in **BOLD.**				
County	**Trap types***	**Number collected (pools)**	**Number of positive pools**	**MFIR**
Atlantic	CO_2	5 (4)		
Burlington	**CO_2**	4564 (100)	10	2.191
Cape May	**Gravid**, **RB**	246 (19)	4	16.260
Cumberland	CO_2, RB	115 (17)		
Gloucester	**RB**	830 (70)	1	1.205
Monmouth	Other	2 (1)		
Ocean	**CO_2**, Gravid, **RB**	56 (16)	2	35.714
Salem	CO_2	9 (5)		
TOTAL		**5827 (232)**	**17**	**2.917**

Additional *Cs. melanura*: Counties submit additional pools of *Cs. melanura* caught in other trap types as well as resting boxes. Three additional positive pools were detected in gravid and resting box traps from Cape May County. Virus was first detected in these additional pools from a Gloucester County resting box sampled on 23 July.

Species other than *Cs. melanura*	Pools	Mosquitoes	Positives	MFIR
Aedes atlanticus	1	5		
Aedes canadensis canadensis	7	169		
Aedes cantator	4	7		
Aedes cinereus	1	1		
Aedes mitchellae	1	1		
Aedes sollicitans	4	45		
Aedes taeniorhynchus	4	30		
Aedes triseriatus	5	26		
Aedes vexans	4	35		
Anopheles bradleyi	12	322		
Anopheles punctipennis	39	798		
Anopheles quadrimaculatus	26	745		
Coquillettidia perturbans	44	770		
Culex erraticus	15	155		
Culex pipiens	23	178		
Culex restuans	4	16		
Culex salinarius	34	483		
Culex spp.	9	69		
Culex territans	1	1		
Culiseta morsitans	1	1		
Psorophora ciliata	1	1		
Psorophora columbiae	2	14		
State Total	**242**	**3872**		

Additional Species: Counties submit additional pools of species other than *Cs. melanura* for EEE virus testing. Currently, no detection of EEE in other species has occurred.

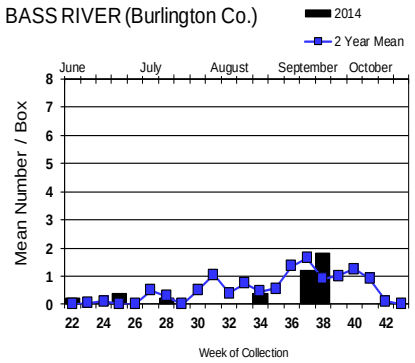
Horses and Humans: Currently there is no reported horse or human cases

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

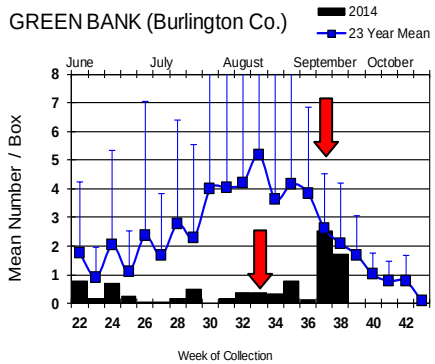
Culiseta melanura Population Graphs

Coastal

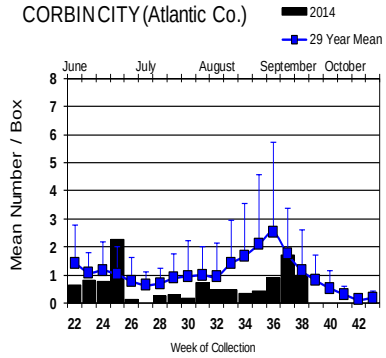
BASS RIVER (Burlington Co.)



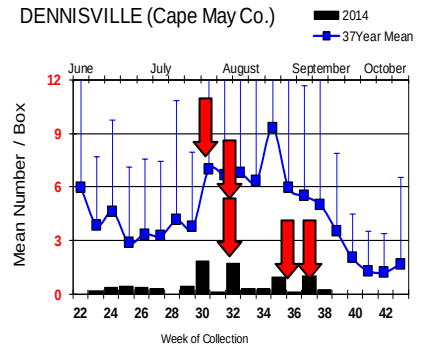
GREEN BANK (Burlington Co.)



CORBIN CITY (Atlantic Co.)

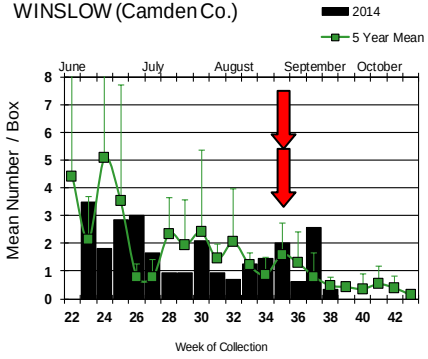


DENNISVILLE (Cape May Co.)

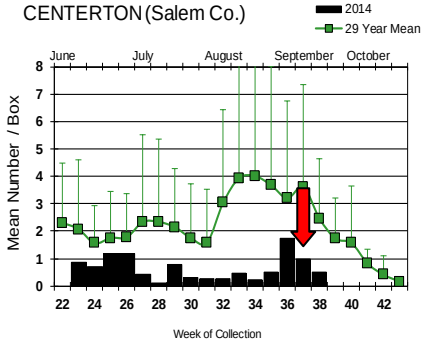


Inland

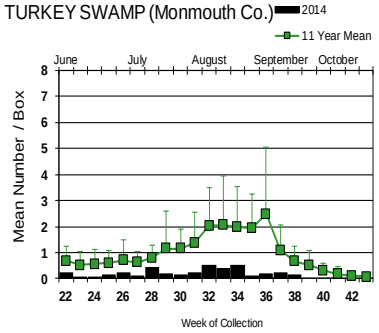
WINSLOW (Camden Co.)



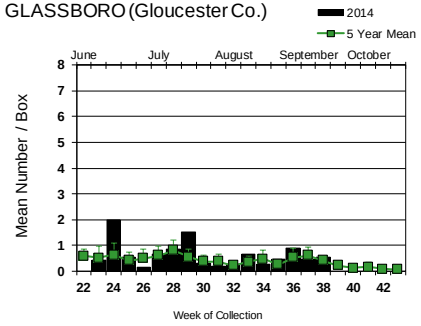
CENTERTON (Salem Co.)



TURKEY SWAMP (Monmouth Co.)



GLASSBORO (Gloucester Co.)



Populations of *Cs. melanura* at most traditional resting box sites fell while detection of EEE positive pools continued. Although the end of the general mosquito season is likely within sight, this cold tolerant mosquito can persist in cooler weather and horse cases have occurred as late as November.

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

EEE in US (2014 cumulative cases): (Black or Red = previous + new reported cases occurring)

- equine: AL(5) FL (50 +2 deer) GA(6) LA(7) MA(1) ME(1) MI(1) MS(1) NC(9) NH(1) NY(8) SC(7) TX(1)
- mosquito pools: GA(1) LA(1) MA(31) ME(15) NH(10) NJ(27) NY(84) VA(108) VT(5)
- sentinel: AL(3) FL(152) GA(1) ME(1 emu) NC(1) VA(31/3 cassowaries)
- human: AL(1) NH(2) NY(1)

West Nile Virus Positive Organisms in US

West Nile in US (2014 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	1	1
Alaska					
Arizona	1	196/275		2/3	34/40
Arkansas					2/4
California	1827/2079	2660/2952	274/328	7/8	181/311
Colorado	3	195		3	19/42
Connecticut		43/62			3
Delaware	1/2				
DC					1/2
Florida			60/79	3/5	5
Georgia	0	25			3/6
Hawaii					
Idaho		62		2/3	13
Illinois	25/33	760/1139			4/15
Indiana		105/141			2/3
Iowa		5/9		1/2	8/11
Kansas		0			3/10
Kentucky				1	
Louisiana		857/894	26/39	1	80/103
Maine		0		0	0
Maryland		19/23		1	1/2
Mass.		39/55		0	1/2
Michigan	11/14	9		1	1
Minnesota	2	17/19		1	4
Mississippi		54/67		0	24/37
Missouri	1	34		1/6	2/7

	Birds	Mosquito Pools	Sentinels	Horses	Humans
Montana		12		2	3/4
Nebraska	4/5	166/235		0	28/69
Nevada		55/89			2
New Hampshire		1		0	0
New Jersey	15/17	491/556		0	2/3
New Mexico		1		2	1/7
New York		492/650			3/10
North Carolina					
North Dakota	0	6		2/4*	9/17
Ohio		267/313			3/4
Oklahoma		5			6/11
Oregon	0	31	0	2	4
Pennsylvania	8/12	1129/1345			2/5
Rhode Island		1/2			
South Carolina	1				
South Dakota	1	57/75		1	31/35
Tennessee	0	304/552		0	3/6
Texas	69	1673/1777		1	70/91
Utah	2	145		3	1
Vermont		7/8		0	0
Virginia		130	15		1
Washington	0	80		3/4	7
West Virginia	1	6/7		0	0
Wisconsin	25	2/3		1/2	5
Wyoming	1	12		3	5

* 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 22 September 2014

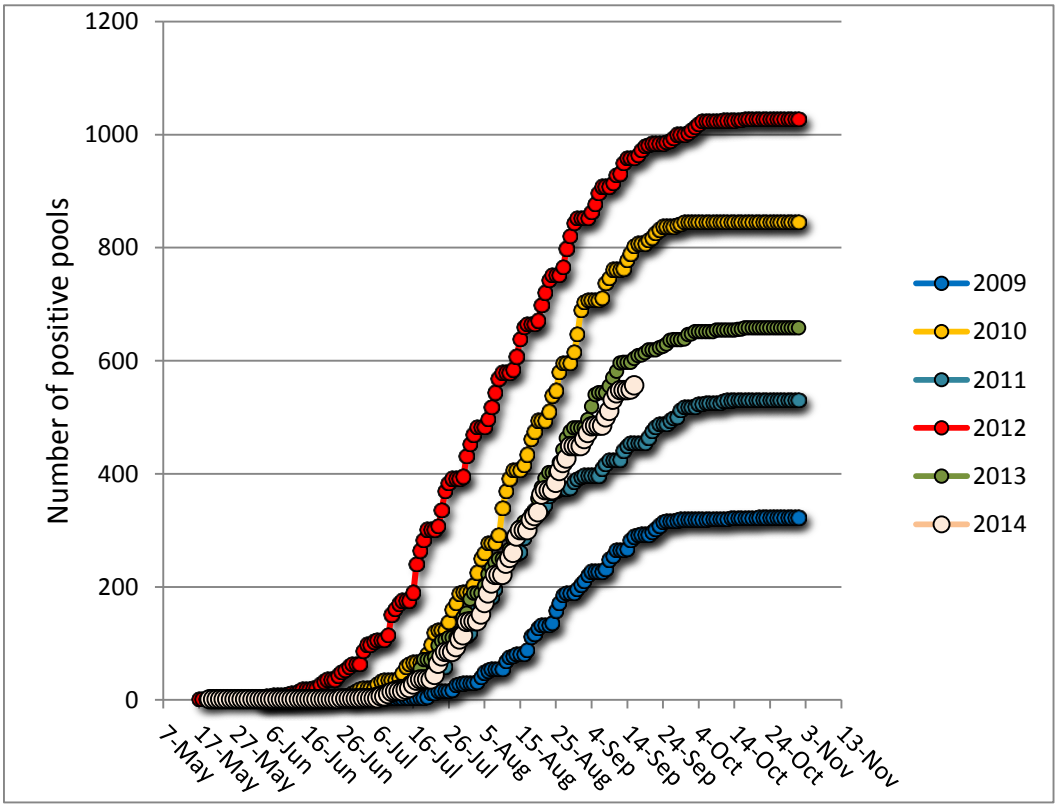
Species	Pools	Mosquitoes	Positives	MFIR
Aedes albopictus	764	7255	11	1.516
Aedes atlanticus	4	10		
Aedes atropalpus	1	5		
Aedes canadensis canadensis	32	630		
Aedes cantator	16	208		
Aedes cinereus	1	1		
Aedes japonicus	452	2726	5	1.834
Aedes mitchellae	1	1		
Aedes sollicitans	10	95		
Aedes sticticus	3	7		
Aedes taeniorhynchus	16	350		
Aedes triseriatus	136	537	1	1.862
Aedes trivittatus	15	67		
Aedes vexans	57	391		
Anopheles bradleyi	26	646		
Anopheles punctipennis	93	1121		
Anopheles quadrimaculatus	78	1579		
Coquillettidia perturbans	88	1190		
Culex erraticus	59	478		
Culex pipiens	513	16598	45	2.711
Culex restuans	214	4916	17	3.458
Culex salinarius	40	505		
Culex spp.	3032	119639	469	3.920
Culex territans	4	4		0.000
Culiseta melanura	396	9096	8	0.880
Culiseta morsitans	1	1		
Psorophora ciliata	3	3		
Psorophora columbiae	12	88		
Psorophora ferox	12	207		
State Total	**6079**	**168354**	**556**	**3.303**

Remarks: To date, 6079 pools of 168,354 mosquitoes from 28 species have been tested, with 556 positive pools detected. First positive was detected in a Mixed *Culex* pool collected on 20 May in Camden County. Nineteen counties have detected positive pools, including Atlantic, Bergen, Burlington, Camden, Cape May, Essex, Gloucester, Hudson, Hunterdon, Mercer, Middlesex, Monmouth, Morris, Ocean, Passaic, Somerset, Sussex, Union and Warren Counties. Overall MFIR for the state has increased from 3.078 to 3.303.

Humans, Horses and Wild Birds: Three human cases of WNV have occurred, one each in Gloucester, Hudson and Monmouth Counties. For further information, see http://www.state.nj.us/health/cd/westnile/techinfo.shtml.

No horse cases have been detected.

Bird testing began in mid-April. First positive bird (Fish Crow in Mercer County collected 8 July) has been reported. To date, 109 birds have been tested, with 17 positives. Species includes: American Crow (*Corvis brachyrhynchos* 3/3) Fish Crow (*Corvus ossifragus* 9/33), Blue Jay (*Cyanocitta cristata* 2/10), Hawk/Raptor (1/7), unidentified corvid (1/4) and other avian species (1/50). Counties (positives) submitting birds are Atlantic, Bergen, Burlington, Cape May, Cumberland, Essex, Hunterdon, Mercer, Middlesex, Monmouth, Morris, Ocean, Passaic, Salem, Sussex, Union and Warren.



Graph above shows trend for 2014 WNV activity as compared to 5 previous years, two with high activity (2010 and 2012), two with moderate activity (2011 and 2013) and one with low activity (2009). Two weeks ago, it appeared that 2014 would follow closer to 2011 activity. But recent data suggests somewhat higher trends.

WNV Results by County through 22 September 2014

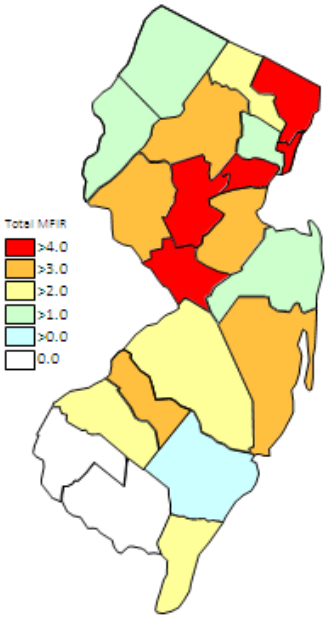
County	Species	Pools	Mosquitoes	Positives	MFIR
Atlantic		**153**	**3387**	**19**	**5.610**
	Aedes albopictus	25	242	1	4.132
	Aedes atlanticus	1	1		
	Aedes canadensis canadensis	4	27		
	Aedes cantator	3	10		
	Aedes japonicus	8	40		
	Aedes sollicitans	2	6		
	Aedes sticticus	1	1		
	Aedes taeniorhynchus	6	247		
	Aedes vexans	6	56		
	Anopheles bradleyi	4	13		
	Anopheles punctipennis	2	4		
	Anopheles quadrimaculatus	3	10		
	Coquillettidia perturbans	5	24		
	Culex erraticus	2	25		
	Culex spp.	55	2282	18	7.888
	Culiseta melanura	20	273		
	Psorophora ferox	6	126		
Bergen		**222**	**16064**	**125**	**7.781**
	Aedes albopictus	7	39	1	25.641
	Aedes japonicus	1	49		
	Anopheles punctipennis	1	1		
	Culex spp.	213	15975	124	7.762

Burlington		**399**	**9962**	**15**	**1.506**
	Aedes albopictus	45	324		
	Aedes atlanticus	1	5		
	Aedes canadensis canadensis	5	163		
	Aedes cinereus	1	1		
	Aedes japonicus	32	279		
	Aedes mitchellae	1	1		
	Aedes taeniorhynchus	4	30		
	Aedes triseriatus	13	74		
	Aedes trivittatus	1	41		
	Aedes vexans	7	85		
	Anopheles bradleyi	5	180		
	Anopheles punctipennis	3	13		
	Anopheles quadrimaculatus	1	21		
	Coquillettidia perturbans	7	141		
	Culex erraticus	7	54		
	Culex pipiens	2	2		
	Culex restuans	1	1		
	Culex salinarius	20	344		
	Culex spp.	119	3432	10	2.914
	Culiseta melanura	120	4755	5	1.052
	Psorophora ciliata	1	1		
	Psorophora columbiae	3	15		
Camden		**359**	**9845**	**31**	**3.149**
	Aedes albopictus	19	43		
	Aedes japonicus	96	402	1	2.488
	Culex spp.	212	8194	30	3.661
	Culiseta melanura	32	1206		
Cape May		**378**	**4434**	**4**	**0.902**
	Aedes albopictus	34	211		
	Aedes atropalpus	1	5		
	Aedes canadensis canadensis	1	1		
	Aedes cantator	4	7		
	Aedes japonicus	14	35		
	Aedes taeniorhynchus	1	50		
	Aedes triseriatus	15	80		
	Aedes vexans	1	1		
	Anopheles bradleyi	7	142		
	Anopheles quadrimaculatus	20	579		
	Coquillettidia perturbans	3	52		
	Culex erraticus	6	59		
	Culex pipiens	151	1934	1	0.517
	Culex restuans	69	558	1	1.792
	Culex salinarius	9	66		
	Culex spp.	2	3		
	Culex territans	3	3		
	Culiseta melanura	37	648	2	3.086
Cumberland		**172**	**2657**		
	Aedes albopictus	4	9		
	Aedes atlanticus	2	4		
	Aedes canadensis canadensis	1	2		
	Aedes japonicus	3	3		

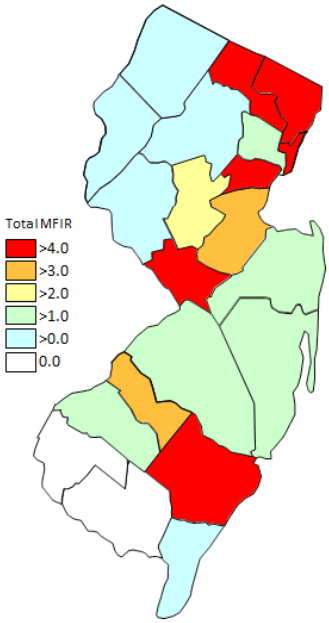
	Aedes sollicitans	4	45		
	Aedes taeniorhynchus	2	18		
	Aedes vexans	12	120		
	Anopheles bradleyi	9	310		
	Anopheles punctipennis	18	170		
	Anopheles quadrimaculatus	9	100		
	Coquillettidia perturbans	11	334		
	Culex erraticus	2	23		
	Culex pipiens	1	5		
	Culex salinarius	6	83		
	Culex spp.	60	1227		
	Culiseta melanura	19	131		
	Psorophora ciliata	2	2		
	Psorophora columbiae	6	70		
	Psorophora ferox	1	1		
Essex		**250**	**2721**	**4**	**1.470**
	Aedes albopictus	18	70		
	Aedes japonicus	36	109		
	Aedes triseriatus	4	8		
	Aedes trivittatus	7	17		
	Aedes vexans	1	4		
	Anopheles quadrimaculatus	5	6		
	Culex spp.	177	2505	4	1.597
	Psorophora ferox	2	2		
Gloucester		**554**	**17550**	**32**	**1.823**
	Aedes albopictus	99	1210	2	1.653
	Aedes japonicus	14	189	1	5.291
	Aedes triseriatus	6	58		
	Aedes vexans	1	4		
	Anopheles punctipennis	32	793		
	Anopheles quadrimaculatus	25	744		
	Coquillettidia perturbans	5	39		
	Culex pipiens	285	13198	28	2.122
	Culiseta melanura	87	1315	1	0.760
Hudson		**153**	**7237**	**70**	**9.673**
	Aedes albopictus	14	220	2	9.091
	Culex spp.	139	7017	68	9.691
Hunterdon		**254**	**12342**	**9**	**0.729**
	Culex spp.	254	12342	9	0.729
Mercer		**418**	**8972**	**52**	**5.796**
	Aedes albopictus	90	635		
	Aedes canadensis canadensis	2	5		
	Aedes japonicus	43	151	1	6.623
	Aedes triseriatus	10	28	1	35.714
	Aedes vexans	5	48		
	Culex erraticus	2	6		
	Culex pipiens	70	1453	16	11.012
	Culex restuans	140	4352	16	3.676
	Culex salinarius	2	8		
	Culex spp.	54	2286	18	7.874

Middlesex		**331**	**12810**	**47**	**3.669**
	Aedes albopictus	62	467	3	6.424
	Aedes triseriatus	2	14		
	Culex spp.	267	12329	44	3.569
Monmouth		**447**	**6646**	**10**	**1.505**
	Aedes albopictus	142	1842		
	Aedes canadensis canadensis	14	273		
	Aedes cantator	6	56		
	Aedes japonicus	45	160		
	Aedes sollicitans	4	44		
	Aedes taeniorhynchus	3	5		
	Aedes triseriatus	15	41		
	Aedes trivitattus	7	9		
	Aedes vexans	14	41		
	Anopheles punctipennis	19	27		
	Anopheles quadrimaculatus	4	4		
	Coquillettidia perturbans	6	6		
	Culex erraticus	6	15		
	Culex restuans	2	2		
	Culex salinarius	1	1		
	Culex spp.	135	3933	10	2.543
	Culex territans	1	1		
	Culiseta melanura	18	181		
	Culiseta morsitans	1	1		
	Psorophora columbiae	3	3		
	Psorophora ferox	1	1		
Morris		**262**	**11324**	**8**	**0.706**
	Aedes albopictus	5	75		
	Coquillettidia perturbans	4	200		
	Culex spp.	253	11049	8	0.724
Ocean		**336**	**4349**	**7**	**1.610**
	Aedes albopictus	82	1056		
	Aedes canadensis canadensis	3	96		
	Aedes cantator	3	135		
	Aedes japonicus	53	248	2	8.065
	Aedes sticticus	2	6		
	Aedes triseriatus	16	51		
	Aedes vexans	9	29		
	Coquillettidia perturbans	18	97		
	Culex erraticus	5	6		
	Culex salinarius	2	3		
	Culex spp.	101	2454	5	2.037
	Culiseta melanura	40	91		
	Psorophora ferox	2	77		
Passaic		**158**	**4304**	**19**	**4.414**
	Aedes albopictus	16	48		
	Aedes japonicus	35	346		
	Aedes triseriatus	10	18		
	Aedes vexans	1	3		
	Anopheles quadrimaculatus	1	1		

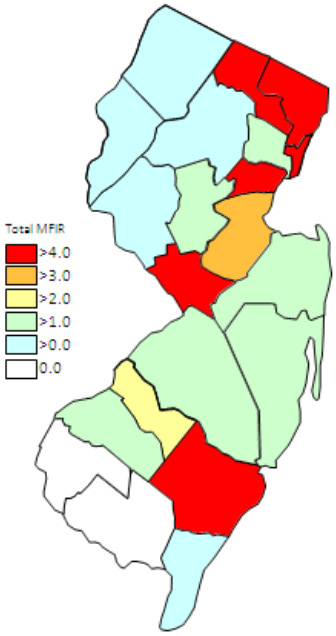
	Coquillettidia perturbans	2	12		
	Culex spp.	93	3876	19	4.902
Salem		**324**	**3200**		
	Aedes albopictus	70	441		
	Aedes japonicus	29	66		
	Aedes triseriatus	29	57		
	Anopheles bradleyi	1	1		
	Anopheles punctipennis	13	78		
	Anopheles quadrimaculatus	6	80		
	Coquillettidia perturbans	26	268		
	Culex erraticus	29	290		
	Culex pipiens	4	6		
	Culex restuans	2	3		
	Culex spp.	92	1414		
	Culiseta melanura	23	496		
Somerset		**242**	**4860**	**10**	**2.058**
	Aedes albopictus	10	39		
	Aedes canadensis canadensis	1	3		
	Aedes japonicus	19	226		
	Aedes triseriatus	5	21		
	Anopheles punctipennis	1	2		
	Culex spp.	206	4569	10	2.189
Sussex		**216**	**6108**	**3**	**0.491**
	Aedes japonicus	11	249		
	Aedes triseriatus	7	71		
	Anopheles punctipennis	2	8		
	Anopheles quadrimaculatus	2	27		
	Coquillettidia perturbans	1	17		
	Culex spp.	193	5736	3	0.523
Union		**187**	**9382**	**84**	**8.953**
	Aedes albopictus	16	191	2	10.471
	Aedes canadensis canadensis	1	60		
	Aedes japonicus	6	84		
	Culex spp.	164	9047	82	9.064
Warren		**264**	**10200**	**7**	**0.686**
	Aedes albopictus	6	93		
	Aedes japonicus	7	90		
	Aedes triseriatus	4	16		
	Anopheles punctipennis	2	25		
	Anopheles quadrimaculatus	2	7		
	Culex spp.	243	9969	7	0.702
Grand Total		**6079**	**168354**	**556**	**3.303**



Cumulative WNV activity in 2013.



WNV activity to 22 September 2014.



WNV activity last week, 2014.

Saint Louis Encephalitis (SLE) to 22 September 2014.

New Jersey will be selectively testing for SLE this year. 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.

No pools have been detected positive for SLE in 2014.

County	Species	Pools	Mosquitoes	Positives	MFIR
Burlington		**151**	**3686**		
	Aedes albopictus	6	48		
	Aedes japonicus	26	245		
	Aedes triseriatus	1	1		
	Culex erraticus	1	3		
	Culex pipiens	2	2		
	Culex restuans	1	1		
	Culex spp.	114	3386		
Cape May		**24**	**174**		
	Culex pipiens	22	171		
	Culex spp.	2	3		
Grand Total		**175**	**3860**		

La Crosse Encephalitis (LAC) through 22 September 2014.

New Jersey will be selectively testing for La Crosse (LAC) virus this year. 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).

No pools have been detected positive for LAC in 2014.

County	Species	Pools	Mosquitoes	Positives	MFIR
Burlington		**46**	**386**		
	Aedes albopictus	23	180		
	Aedes canadensis canadensis	4	88		
	Aedes japonicus	6	44		
	Aedes triseriatus	13	74		
Cape May		**16**	**87**		
	Aedes triseriatus	15	80		
	Culex pipiens	1	7		
Salem		**13**	**28**		
	Aedes triseriatus	13	28		
Grand Total		**75**	**501**		

Dengue (DENV) to 22 September 2014.

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 25 imported human cases in New Jersey, no local transmission.

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

No pools have been detected positive for DENV in 2014.

County	Species	DENV1		DENV2		DENV3		DENV4		Positives	MFIR
		Pool	Mos.	Pool	Mos.	Pool	Mos.	Pool	Mos.		
Atlantic		**22**	**233**	**22**	**233**	**22**	**233**	**21**	**227**		
	Aedes albopictus	22	233	22	233	22	233	21	227		
Bergen		**7**	**39**	**7**	**39**	**7**	**39**	**7**	**39**		
	Aedes albopictus	7	39	7	39	7	39	7	39		
Burlington		**20**	**128**	**20**	**128**	**20**	**128**	**20**	**128**		
	Aedes albopictus	20	128	20	128	20	128	20	128		
Camden		**11**	**33**	**11**	**33**	**11**	**33**	**11**	**33**		
	Aedes albopictus	11	33	11	33	11	33	11	33		
Cape May		**21**	**187**	**21**	**187**	**21**	**187**	**21**	**187**		

	Aedes albopictus	21	187	21	187	21	187	21	187		
Cumberland		**3**	**8**	**3**	**8**	**3**	**8**	**3**	**8**		
	Aedes albopictus	3	8	3	8	3	8	3	8		
Gloucester		**87**	**965**	**87**	**965**	**87**	**965**	**87**	**965**		
	Aedes albopictus	87	965	87	965	87	965	87	965		
Hudson		**14**	**220**	**14**	**220**	**14**	**220**	**14**	**220**		
	Aedes albopictus	14	220	14	220	14	220	14	220		
Mercer		**73**	**562**	**73**	**562**	**73**	**562**	**73**	**562**		
	Aedes albopictus	73	562	73	562	73	562	73	562		
Middlesex		**61**	**467**	**61**	**467**	**61**	**467**	**61**	**467**		
	Aedes albopictus	60	459	60	459	60	459	60	459		
	Culex spp.	1	8	1	8	1	8	1	8		
Monmouth		**96**	**1586**	**96**	**1586**	**96**	**1586**	**96**	**1586**		
	Aedes albopictus	96	1586	96	1586	96	1586	96	1586		
Morris		**2**	**24**	**2**	**24**	**2**	**24**	**2**	**24**		
	Aedes albopictus	2	24	2	24	2	24	2	24		
Ocean		**1**	**25**	**1**	**25**	**1**	**25**	**1**	**25**		
	Aedes albopictus	1	25	1	25	1	25	1	25		
Passaic		**1**	**2**	**1**	**2**	**1**	**2**	**1**	**2**		
	Aedes albopictus	1	2	1	2	1	2	1	2		
Salem		**66**	**429**	**66**	**429**	**66**	**429**	**66**	**429**		
	Aedes albopictus	66	429	66	429	66	429	66	429		
Somerset		**4**	**10**	**4**	**10**	**4**	**10**	**4**	**10**		
	Aedes albopictus	4	10	4	10	4	10	4	10		
Warren		**5**	**76**	**5**	**76**	**5**	**76**	**5**	**76**		
	Aedes albopictus	5	76	5	76	5	76	5	76		
Grand Total		**494**	**4994**	**494**	**4994**	**494**	**4994**	**493**	**4988**		

Chikungunya (CHIK) to 22 September 2014.

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. There are currently 87 imported human cases in New Jersey, no local transmission.

No pools have been detected positive for CHIK in 2014.

County	Species	Pools	Mosquitoes	Positives	MFIR
Atlantic		**22**	**233**		
	Aedes albopictus	22	233		
Bergen		**7**	**39**		
	Aedes albopictus	7	39		
Burlington		**20**	**128**		
	Aedes albopictus	20	128		
Camden		**11**	**33**		
	Aedes albopictus	11	33		
Cape May		**21**	**187**		
	Aedes albopictus	21	187		
Cumberland		**3**	**8**		
	Aedes albopictus	3	8		
Gloucester		**87**	**965**		
	Aedes albopictus	87	965		
Hudson		**14**	**220**		
	Aedes albopictus	14	220		
Mercer		**73**	**562**		
	Aedes albopictus	73	562		
Middlesex		**61**	**467**		
	Aedes albopictus	60	459		
	Culex spp.	1	8		
Monmouth		**96**	**1586**		
	Aedes albopictus	96	1586		
Morris		**2**	**24**		
	Aedes albopictus	2	24		
Ocean		**1**	**25**		
	Aedes albopictus	1	25		
Passaic		**1**	**2**		
	Aedes albopictus	1	2		
Salem		**66**	**429**		
	Aedes albopictus	66	429		
Somerset		**4**	**10**		
	Aedes albopictus	4	10		

Warren		**5**	**76**		
	Aedes albopictus	5	76		
Grand Total		**494**	**4994**		