

VECTOR SURVEILLANCE IN NEW JERSEY

EEE, WNV, SLE and LAC

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CDC WEEK 36: September 1 – September 7, 2013

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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	1.50	1.20	36 (42)	10 (11)		
Green Bank (Burlington Co.)/25	Coastal	3.76	5.76	261 (405)	14 (17)	1	3.83
Corbin City (Atlantic Co.)/25	Coastal	2.59	0.72	248 (266)	14 (15)	1	4.03
Dennisville (Cape May Co.)/50	Coastal	5.64	0.16	225 (233)	12 (13)	1	4.44
Winslow (Camden Co.)/50	Inland	2.97	1.22	1458 (1519)	35 (37)	1	0.39
Centerton (Salem Co.)/50	Inland	3.28	1.00	782 (832)	23 (24)		
Turkey Swamp (Monmouth Co.)/44	Inland	1.86	8.14	1310	35	8	6.11
Glassboro (Gloucester Co.)/50	Inland	1.10	0.34	299 (316)	14 (15)		

*Current week (in parentheses) results pending.

Remarks: EEE activity increased significantly with triple the number of positive pools than found earlier and is disseminating in southern New Jersey, with additional positive pools found up through Burlington and Monmouth counties (see map, page 3). This activity reflects a general increase in activity throughout the eastern seaboard. To date, 24 positive EEE pools (*Cs. melanura*, *Coquillettidia perturbans*, *Culex erraticus* and *Cx. salinarius*) have been collected in New Jersey. Two presumptive horse cases have been reported.

Traditional Resting Box Sites: To date 4619 *Cs. melanura* from 157 pools have been tested from the traditional resting box sites with an additional 14 pools of 662 mosquitoes to be tested. Twelve pools have been detected positive for an overall MFIR of 2.60 for the traditional resting box sites. New positives were detected primarily at Turkey Swamp (8) with additional pools at Green Bank, Corbin City and Winslow.

Additional *Cs. melanura*: Two hundred seventy-five additional pools containing 6169 *Cs. melanura* have been tested from other sites using other traps in addition to resting boxes. A total of 9 positive *Cs. melanura* pools from non-traditional sites have been detected to date. Note that MFIR

value is a “rough estimate” as other data already completed may be pending for entry to the West Nile database and not reflected in the tables below.

Additional *Cs. melanura* trapped by counties

*traps with positives indicated in **BOLD**.

County	Trap types*	Number collected (pools)	Number of positives pools	MFIR
Atlantic	CO ₂	1 (1)		
Burlington	CO₂, RB	4082 (70)	2	0.49
Cape May	CO ₂ , Gravid, LT, RB	1171 (15)	5	4.27
Gloucester	RB	649 (51)		
Monmouth	CO ₂	37 (4)		
Ocean	CO₂, RB	197 (38)	2	10.15
Salem	CO ₂	32 (6)		
TOTAL		6169 (275)	9	1.46*

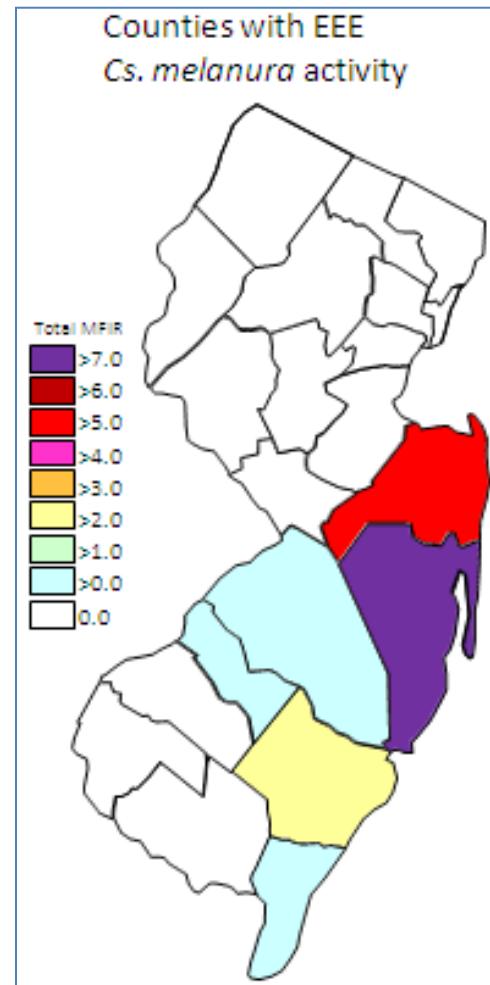
While *Cs. melanura* is primarily a bird feeder, it is not exclusively ornithophilic and may on occasion take a meal from a mammal. The appropriate precautions should be taken in its habitat.

Species other than <i>Cs. melanura</i>	Pools	Mosquitoes	Positives	MFIR
<i>Aedes albopictus</i>	1	1		
<i>Aedes atlanticus</i>	2	66		
<i>Aedes canadensis canadensis</i>	3	77		
<i>Aedes cantator</i>	19	24		
<i>Aedes sollicitans</i>	4	19		
<i>Aedes sticticus</i>	2	3		
<i>Aedes taeniorhynchus</i>	1	2		
<i>Aedes triseriatus</i>	1	17		
<i>Aedes vexans</i>	1	32		
<i>Anopheles bradleyi</i>	15	78		
<i>Anopheles punctipennis</i>	3	51		
<i>Anopheles quadrimaculatus</i>	1	5		
<i>Coquillettidia perturbans</i>	18	259	1	3.861
<i>Culex erraticus</i>	78	2670	1	0.375
<i>Culex pipiens</i>	360	4766		
<i>Culex restuans</i>	2	2		
<i>Culex salinarius</i>	78	748	1	1.337
<i>Culex</i> spp.	65	383		
<i>Psorophora columbiae</i>	2	5		
State Total	656	9208	3	0.326

Additional Species: The table to the left indicates non-*Cs. melanura* mosquitoes tested for EEE. First positive in a non-*Cs. melanura* species was a pool of *Cx. salinarius* collected 3 August in Cape May County. *Coquillettidia perturbans*, a suspected inland vector of EEE, was found positive in Ocean County. *Culex erraticus*, an indiscriminant feeder that will bite both birds and mammals was found positive in Monmouth County.

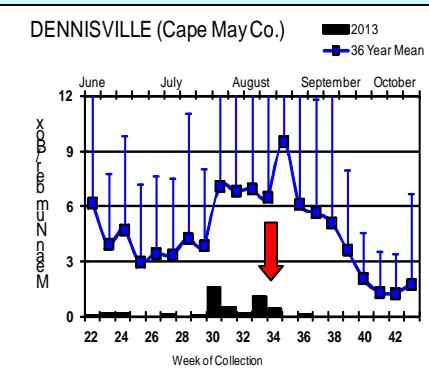
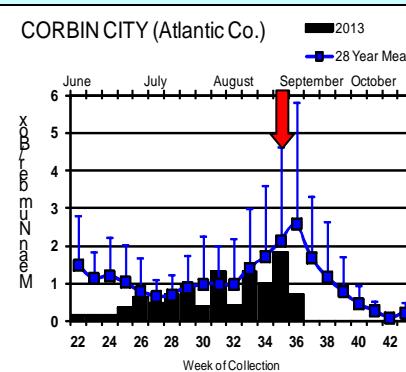
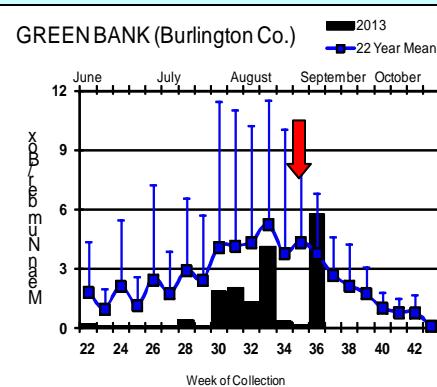
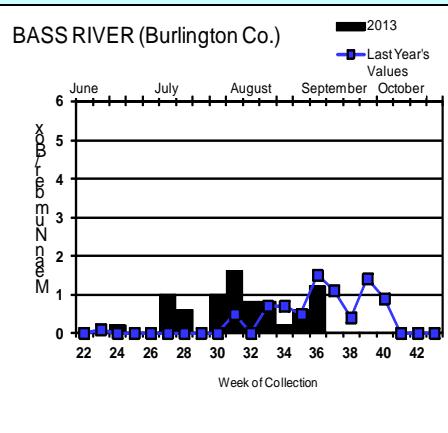
Horses and Humans: Currently there are no reported human cases. Two presumptive horse cases are reported. The first was in Cape May County. This 7 yo gelding had a date of onset 2 August and was euthanized the following day. Vaccination history is unknown. The second horse is in Monmouth County with an onset date of 27 August. This is another year with a pre-August date (July 9th) of first positive mosquitoes and multiple horse cases. The season may continue, in some years, well into October.

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

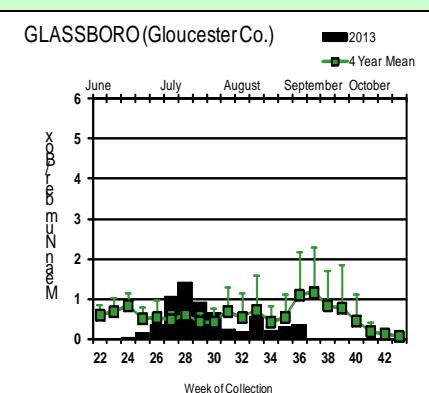
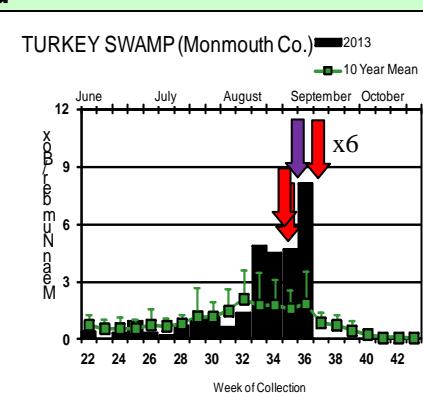
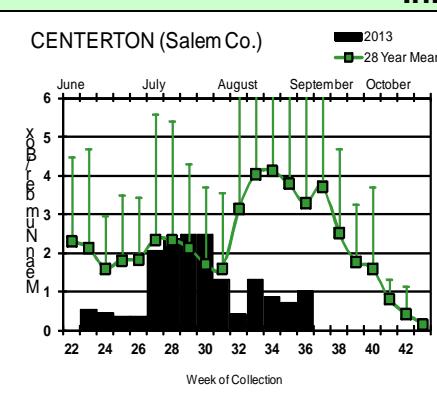
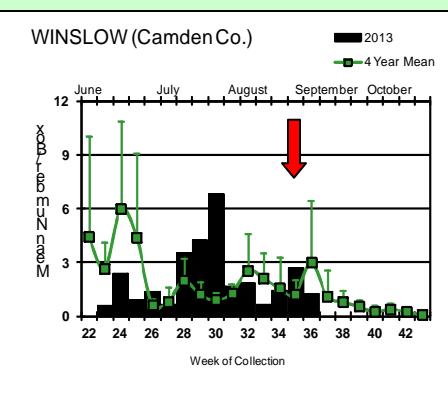


Culiseta melanura Population Graphs

Coastal



Inland



Cs. melanura populations at Turkey Swamp and Green Bank increased dramatically at a time when positive EEE pools are being detected at those sites. Note that the axis change on the Turkey Swamp graph was changed back to the original numbers to accommodate the large increase in population size. Activity is not restricted to populations with significant growth. The Dennisville site also produced a positive pool earlier this year when the abundance of the enzootic vector was at a probable historic low. Also note that while *Coquillettidia perturbans* and *Aedes sollicitans* (not yet positive), suspected inland and coastal vectors of EEE, are either waning or at historic lows, females that are present are likely in the parous state, having bloodfed previously and thus have a greater chance of being positive. Use due diligence. Although numbers may be low, the potential for disease transmission could be higher than earlier in the season due to their higher parous state. This status should be confirmed through parity dissections to aid management decisions.

Note axis change (from 12 to 6) on Bass River, Corbin City, Centerton and Glassboro sites. Note axis change on Turkey Swamp back to original numbers to accommodate increased population activity.



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

EEE in US (2013 cumulative cases): (Black or Red = previous + new reported cases occurring)

- equine: 4(AL) 1(AR) 28(FL) 20(GA) 1(KY) 5(LA) 3(MA) 1(MD) 1(MI) 8(MS) 7(NC) 2(NJ) 1(TX) 29(SC) 1(VA) 1(VT)
- mosquito pools: 29(CT) 1(GA) 42(MA) 5(MD) 8(ME) 1(NC) 5(NH) 24(NJ) 32(NY) 1(RI) 67(VA) 15(VT)
- sentinel: 3(AL) 1(DE) 124/4 wild(FL) 1(GA) 1(NC) 12(VA)
- human: 2(FL) 1(GA) 1(MA)

West Nile Virus in US

West Nile in US (2013 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					3
Alaska					
Arizona	0	148/164	4	1	9/16
Arkansas				1	2/3
California	903/982	1854/2085	262/316	8	87/101
Colorado	9/10	372/417		1/2	87/113
Connecticut		57/73			2
Delaware	4/7		6/12	1	
DC		21			
Florida			65	2	1
Georgia	0	64		0	2
Hawaii					
Idaho		66		3/5	8/13
Illinois	46/50	1274/1588		1/2	2/3
Indiana	0	247/305		1	1/4
Iowa		12/14	3	5	8
Kansas		1			4
Kentucky				2	
Louisiana		145/157	53/55	1	21/31
Maine		0		0	0
Maryland		4/5			3/6
Mass.		216/259		0	2
Michigan	30	6		0	5/6
Minnesota	1	34		1/2	36/46
Mississippi		35/42		2	23/27
Missouri		4		3	1

	Birds	Mosquito Pools	Sentinels	Horses	Humans
Montana	1	11/16		9	1
Nebraska	1	86/123		1/2	22/29
Nevada	1	30/42			7
New Hampshire		7			
New Jersey	19/22	391/473		0	6
New Mexico		1		1/3	5/7
New York		357/389		2/3	2/4
North Carolina					
North Dakota	6	20		0	34/39
Ohio		93/130		1	3/4
Oklahoma		18		1	2/3
Oregon	1	51/64	0	1/2	5/8
Pennsylvania	13/15	1002/1140		0	3/4
Rhode Island		3/4			
South Carolina	1			1	
South Dakota	8	368		2	71
Tennessee	0	458/519		0	3/7
Texas	1	239/261		5/7	21/31
Utah		35/57	0	1/4	1/3
Vermont		16		1	
Virginia		11/98	2		
Washington	0	11/12		0	1
West Virginia		20			
Wisconsin	50/53	19		0	4/5
Wyoming	5	51/52		7/11	10/17

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

**Mosquito Species Submitted and Tested
for West Nile Virus Testing through 6 September 2013**

Species	Pools	Mosquitoes	Positives	MFIR
<i>Aedes albopictus</i>	596	4624	1	0.216
<i>Aedes atlanticus</i>	5	71		
<i>Aedes atropalpus</i>	4	7		
<i>Aedes canadensis canadensis</i>	46	832		
<i>Aedes cantator</i>	31	114		
<i>Aedes grossbecki</i>	1	1		
<i>Aedes japonicus</i>	317	1884	2	1.062
<i>Aedes sollicitans</i>	10	47		
<i>Aedes sticticus</i>	3	5		
<i>Aedes taeniorhynchus</i>	14	123		
<i>Aedes triseriatus</i>	94	238		
<i>Aedes trivittatus</i>	7	59		
<i>Aedes vexans</i>	64	691		
<i>Anopheles bradleyi</i>	23	113		
<i>Anopheles crucians</i>	1	37		
<i>Anopheles punctipennis</i>	28	198	1	5.051
<i>Anopheles quadrimaculatus</i>	88	1787		
<i>Coquillettidia perturbans</i>	32	375		
<i>Culex erraticus</i>	86	2695		
<i>Culex pipiens</i>	728	18726	56	2.990
<i>Culex restuans</i>	522	6057	17	2.807
<i>Culex salinarius</i>	82	766		
<i>Culex spp.</i>	2713	117668	385	3.272
<i>Culex territans</i>	14	17		
<i>Culiseta melanura</i>	450	10882	11	1.011
<i>Orthopodomyia signifera</i>	4	4		
<i>Psorophora ciliata</i>	3	4		
<i>Psorophora columbiae</i>	21	165		
<i>Psorophora ferox</i>	27	329		
<i>Psorophora howardii</i>	1	10		
State Total	6015	168529	473	2.807

Remarks: To date, 6015 pools of 168529 mosquitoes from 29 species have been tested, with 473 positive pools detected. First positive was detected in a pool collected on 26 June in Middlesex County. Positive pools continue to be detected primarily in the enzootic vectors. Potential bridge vectors are also being detected, with positive pools in *Aedes albopictus*, *Aedes japonicus* and *Anopheles punctipennis*.

Humans, Horses and Wild Birds: To date, six human cases have been reported by the NJ Department of Health. The first case was from Burlington County with onset date of 5 August. Cases are from Bergen (1), Burlington (1), Camden (2), Gloucester (1) and Morris (1) counties. See <http://www.state.nj.us/health/cd/westnile/techinfo.shtml> for further information.

Last year the first horse was detected in mid July. No horse or other livestock have been reported positive in 2013 to date.

Bird testing began in mid-April. Twenty-two positive birds have been reported, mostly corvids. First American Crow positive has been detected. To date, 102 birds have been tested. Testing includes: American Crow (*Corvus brachyrhynchos* 1/5), Fish Crow (*C. ossifragus* 6/17), unidentified Crow (*Corvus* spp. 2/4), Blue Jay (*Cyanocitta cristata* 10/16), Hawk/Raptor (0/8) and other avian species (3/52). Counties (**positives**) submitting birds are **Atlantic**, **Bergen**, **Burlington**, **Cape May**,

Cumberland, Essex, Gloucester, Hunterdon, Mercer, Middlesex, Monmouth, Morris, Ocean, Salem, Sussex, Union and Warren (previous positive in error).

2013 Positive Mosquito pools to date / Total Mosquito Pools Submitted (PHEL)	This time last year (PHEL)
473 / 6015 (0.079)	893 / 5790 (0.154)
2013 Positive Birds to date / Total Birds Submitted	This time last year
22 / 102 (0.216)	95 / 231 (0.411)

WNV Results by County through 6 September 2013

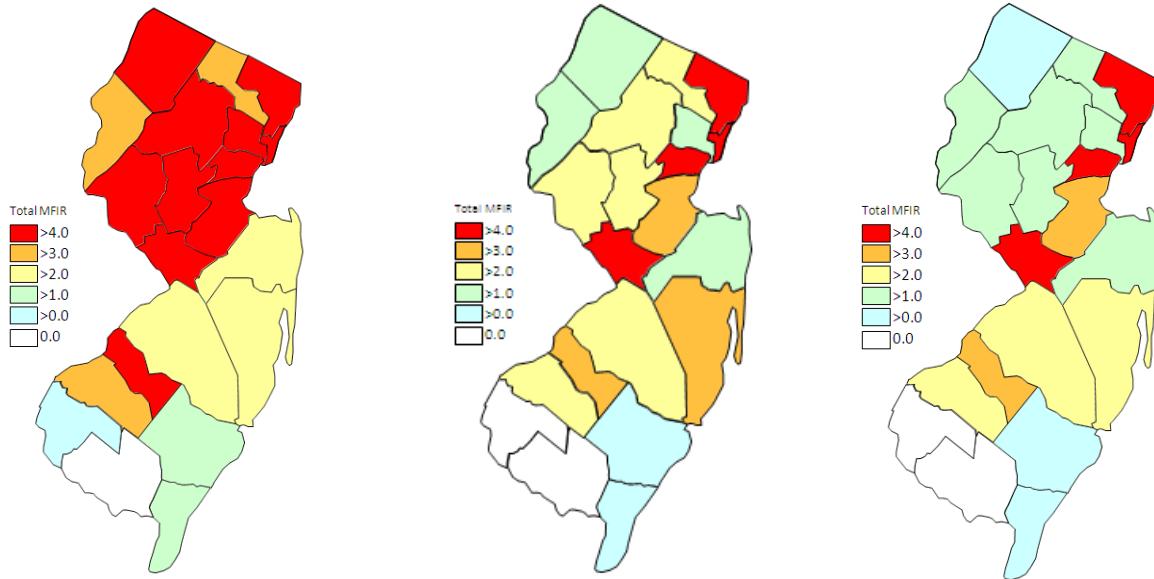
County	Species	Pools	Mosquitoes	Positives	MFIR
Atlantic		140	2806	1	0.356
	<i>Aedes albopictus</i>	12	134		
	<i>Aedes canadensis canadensis</i>	4	81		
	<i>Aedes cantator</i>	3	36		
	<i>Aedes grossbecki</i>	1	1		
	<i>Aedes japonicus</i>	6	24		
	<i>Aedes sollicitans</i>	2	23		
	<i>Aedes sticticus</i>	2	3		
	<i>Aedes taeniorhynchus</i>	6	30		
	<i>Aedes triseriatus</i>	4	11		
	<i>Aedes vexans</i>	11	279		
	<i>Anopheles bradleyi</i>	6	27		
	<i>Anopheles punctipennis</i>	1	11		
	<i>Anopheles quadrimaculatus</i>	3	11		
	<i>Coquillettidia perturbans</i>	5	35		
	<i>Culex erraticus</i>	3	97		
	<i>Culex</i> spp.	42	1555	1	0.643
	<i>Culiseta melanura</i>	21	290		
	<i>Psorophora ciliata</i>	1	1		
	<i>Psorophora columbiae</i>	2	2		
	<i>Psorophora ferox</i>	4	145		
	<i>Psorophora howardii</i>	1	10		
Bergen		164	10361	74	7.142
	<i>Aedes japonicus</i>	3	32		
	<i>Culex</i> spp.	161	10329	74	7.164
Burlington		205	7814	18	2.304
	<i>Aedes albopictus</i>	10	162		
	<i>Aedes atlanticus</i>	1	44		
	<i>Aedes canadensis canadensis</i>	1	63		
	<i>Aedes japonicus</i>	9	66		
	<i>Aedes taeniorhynchus</i>	1	2		
	<i>Aedes triseriatus</i>	1	17		
	<i>Aedes vexans</i>	2	10		
	<i>Anopheles crucians</i>	1	37		
	<i>Coquillettidia perturbans</i>	4	145		
	<i>Culex erraticus</i>	2	4		
	<i>Culex pipiens</i>	2	15		
	<i>Culex restuans</i>	1	1		
	<i>Culex salinarius</i>	3	97		
	<i>Culex</i> spp.	71	2767	12	4.337

<i>Culiseta melanura</i>	94	4379	6	1.370
<i>Psorophora ciliata</i>	1	1		
<i>Psorophora columbiae</i>	1	4		
Camden	229	7172	28	3.904
<i>Aedes albopictus</i>	33	170		
<i>Aedes japonicus</i>	26	88	1	11.364
<i>Anopheles punctipennis</i>	1	1		
<i>Culex</i> spp.	135	5505	27	4.905
<i>Culiseta melanura</i>	34	1408		
Cape May	1720	16901	14	0.828
<i>Aedes albopictus</i>	170	362		
<i>Aedes atlanticus</i>	1	2		
<i>Aedes atropalpus</i>	4	7		
<i>Aedes canadensis canadensis</i>	6	7		
<i>Aedes cantator</i>	20	25		
<i>Aedes japonicus</i>	87	168		
<i>Aedes sollicitans</i>	4	19		
<i>Aedes taeniorhynchus</i>	6	90		
<i>Aedes triseriatus</i>	43	69		
<i>Aedes vexans</i>	19	32		
<i>Anopheles bradleyi</i>	15	78		
<i>Anopheles punctipennis</i>	1	1		
<i>Anopheles quadrimaculatus</i>	69	1693		
<i>Coquillettidia perturbans</i>	4	8		
<i>Culex erraticus</i>	70	2458		
<i>Culex pipiens</i>	460	6039	12	1.987
<i>Culex restuans</i>	459	3602		
<i>Culex salinarius</i>	74	601		
<i>Culex</i> spp.	61	201	1	4.975
<i>Culex territans</i>	14	17		
<i>Culiseta melanura</i>	117	1396	1	0.716
<i>Orthopodomyia signifera</i>	4	4		
<i>Psorophora columbiae</i>	5	8		
<i>Psorophora ferox</i>	8	11		
Essex	168	2649	3	1.133
<i>Aedes albopictus</i>	66	431		
<i>Aedes japonicus</i>	41	404		
<i>Culex</i> spp.	61	1814	3	1.654
Gloucester	352	14184	41	2.891
<i>Aedes albopictus</i>	15	501		
<i>Aedes japonicus</i>	12	173		
<i>Aedes triseriatus</i>	1	30		
<i>Aedes vexans</i>	4	139		
<i>Anopheles punctipennis</i>	6	144	1	6.944
<i>Anopheles quadrimaculatus</i>	3	36		
<i>Coquillettidia perturbans</i>	3	71		
<i>Culex pipiens</i>	236	12024	40	3.327
<i>Culiseta melanura</i>	69	978		
<i>Psorophora ferox</i>	3	88		
Hudson	157	8234	49	5.951

<i>Culex</i> spp.	157	8234	49	5.951
Hunterdon	260	12442	25	2.009
<i>Culex</i> spp.	260	12442	25	2.009
Mercer	200	5619	32	5.695
<i>Aedes albopictus</i>	54	406		
<i>Aedes japonicus</i>	11	48	1	20.833
<i>Aedes triseriatus</i>	2	4		
<i>Aedes vexans</i>	5	124		
<i>Culex erraticus</i>	1	3		
<i>Culex pipiens</i>	29	646	4	6.192
<i>Culex restuans</i>	58	2450	17	6.939
<i>Culex salinarius</i>	1	5		
<i>Culex</i> spp.	39	1933	10	5.173
Middlesex	221	7068	26	3.679
<i>Aedes albopictus</i>	10	152		
<i>Aedes japonicus</i>	4	20		
<i>Culex</i> spp.	207	6896	26	3.770
Monmouth	284	4196	6	1.430
<i>Aedes albopictus</i>	53	662		
<i>Aedes atlanticus</i>	3	25		
<i>Aedes canadensis canadensis</i>	16	257		
<i>Aedes cantator</i>	6	20		
<i>Aedes japonicus</i>	24	94		
<i>Aedes sollicitans</i>	1	1		
<i>Aedes taeniorhynchus</i>	1	1		
<i>Aedes triseriatus</i>	15	40		
<i>Aedes trivittatus</i>	6	9		
<i>Aedes vexans</i>	7	21		
<i>Anopheles punctipennis</i>	13	29		
<i>Anopheles quadrimaculatus</i>	1	1		
<i>Coquillettidia perturbans</i>	2	6		
<i>Culex erraticus</i>	4	43		
<i>Culex restuans</i>	2	2		
<i>Culex salinarius</i>	1	50		
<i>Culex</i> spp.	73	1433	2	1.396
<i>Culiseta melanura</i>	47	1390	4	2.878
<i>Psorophora columbiae</i>	3	68		
<i>Psorophora ferox</i>	6	44		
Morris	315	13480	33	2.448
<i>Culex</i> spp.	315	13480	33	2.448
Ocean	295	3831	12	3.132
<i>Aedes albopictus</i>	79	897	1	1.115
<i>Aedes canadensis canadensis</i>	18	411		
<i>Aedes cantator</i>	2	33		
<i>Aedes japonicus</i>	29	97		
<i>Aedes sollicitans</i>	1	2		
<i>Aedes triseriatus</i>	4	7		
<i>Aedes vexans</i>	13	20		
<i>Anopheles punctipennis</i>	2	3		

	<i>Coquillettidia perturbans</i>	8	72		
	<i>Culex erraticus</i>	2	8		
	<i>Culex salinarius</i>	3	13		
	<i>Culex</i> spp.	96	2071	11	5.311
	<i>Culiseta melanura</i>	38	197		
Passaic		175	6140	13	2.117
	<i>Aedes albopictus</i>	19	81		
	<i>Aedes japonicus</i>	16	165		
	<i>Aedes triseriatus</i>	7	12		
	<i>Aedes trivittatus</i>	1	50		
	<i>Aedes vexans</i>	1	50		
	<i>Anopheles punctipennis</i>	2	4		
	<i>Anopheles quadrimaculatus</i>	1	15		
	<i>Coquillettidia perturbans</i>	1	2		
	<i>Culex</i> spp.	125	5759	13	2.257
	<i>Psorophora ferox</i>	2	2		
Salem		208	4306		
	<i>Aedes albopictus</i>	26	116		
	<i>Aedes japonicus</i>	20	82		
	<i>Aedes sollicitans</i>	2	2		
	<i>Aedes sticticus</i>	1	2		
	<i>Aedes triseriatus</i>	13	36		
	<i>Anopheles bradleyi</i>	2	8		
	<i>Anopheles punctipennis</i>	2	5		
	<i>Anopheles quadrimaculatus</i>	11	31		
	<i>Coquillettidia perturbans</i>	5	36		
	<i>Culex erraticus</i>	4	82		
	<i>Culex pipiens</i>	2	2		
	<i>Culex restuans</i>	2	2		
	<i>Culex</i> spp.	74	2964		
	<i>Culiseta melanura</i>	29	814		
	<i>Psorophora ciliata</i>	1	2		
	<i>Psorophora columbiae</i>	10	83		
	<i>Psorophora ferox</i>	4	39		
Somerset		222	5505	13	2.361
	<i>Aedes albopictus</i>	20	122		
	<i>Aedes japonicus</i>	16	161		
	<i>Aedes triseriatus</i>	4	12		
	<i>Aedes vexans</i>	2	16		
	<i>Culex</i> spp.	180	5194	13	2.503
Sussex		235	11033	12	1.088
	<i>Aedes japonicus</i>	6	147		
	<i>Culex</i> spp.	228	10856	12	1.105
	<i>Culiseta melanura</i>	1	30		
Union		218	11952	58	4.853
	<i>Aedes albopictus</i>	28	409		
	<i>Aedes japonicus</i>	7	115		
	<i>Culex</i> spp.	183	11428	58	5.075
Warren		247	12836	15	1.169

<i>Aedes albopictus</i>	1	19		
<i>Aedes canadensis canadensis</i>	1	13		
<i>Culex</i> spp.	245	12804	15	1.172
Grand Total	6015	168529	473	2.807



Cumulative WNV activity in 2012. WNV activity to 6 September 2013. WNV activity last week, 2013.

Saint Louis Encephalitis (SLE) to 6 September 2013.

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 2013.

County	Species	Pools	Mosquitoes	Positives	MFIR
Burlington		35	1140		
	<i>Aedes albopictus</i>	4	77		
	<i>Aedes japonicus</i>	2	13		
	<i>Culex erraticus</i>	1	2		
	<i>Culex pipiens</i>	28	1048		
Cape May		368	4782		
	<i>Culex pipiens</i>	356	4748		
	<i>Culex</i> spp.	12	34		
Salem		2	16		
	<i>Aedes triseriatus</i>	2	16		
Grand Total		405	5938		

La Crosse Encephalitis (LAC) through 6 September 2013.

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 2013.

County	Species	Pools	Mosquitoes	Positives	MFIR
Burlington		1	17		
	<i>Aedes triseriatus</i>	1	17		
Cape May		39	65		
	<i>Aedes triseriatus</i>	39	65		
Salem		9	18		
	<i>Aedes triseriatus</i>	9	18		
Grand Total		49	100		