

VECTOR SURVEILLANCE IN NEW JERSEY

EEE, WNV, SLE and LAC

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CDC WEEK 40: September 29 – October 5, 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	0.90	1.60	63 (71)	14 (15)		
Green Bank (Burlington Co.)/25	Coastal	1.00	1.48	509 (546)	19 (20)	3	5.89
Corbin City (Atlantic Co.)/25	Coastal	0.47	2.48	402 (464)	19 (21)	2	4.98
Dennisville (Cape May Co.)/50	Coastal	1.35	0.10	257	18	1	3.89
Winslow (Camden Co.)/50	Inland	0.25	1.18	1730	43	2	1.16
Centerton (Salem Co.)/50	Inland	1.60	0.68	982	29		
Turkey Swamp (Monmouth Co.)/44	Inland	0.27	0.86	1521 (1559)	41 (42)	10	6.57
Glassboro (Gloucester Co.)/50	Inland	0.44	0.20	383	16	2	5.22

*Current week (in parentheses) results pending.

Remarks: EEE activity continues to be detected with additional positive pools found at both traditional resting box sites and other county sites. To date, 42 positive EEE pools (*Cs. melanura*, *Anopheles bradleyi*, *Coquillettidia perturbans*, *Culex erraticus* and *Cx. salinarius*) have been collected in New Jersey. Three presumptive horse cases have been reported.

Traditional Resting Box Sites: To date 5847 *Cs. melanura* from 199 pools have been tested from the traditional resting box sites with an additional 5 pools of 146 mosquitoes to be tested. Twenty pools have been detected positive for an overall MFIR of 3.42 for the traditional resting box sites. Two new positives pools of *Cs. melanura* were detected at Glassboro and Winslow this past week.

Additional <i>Cs. melanura</i> trapped by counties *traps with positives indicated in BOLD .				
County	Trap types*	Number collected (pools)	Number of positives pools	MFIR
Atlantic	CO ₂	4 (2)		
Burlington	CO₂	4650 (84)	4	0.86
Cape May	CO ₂ , Gravid, RB	1311 (111)	8	6.10
Gloucester	RB	776 (68)		
Monmouth	CO ₂ , Other	274 (19)	2	7.30
Ocean	CO₂, Gravid, RB	360 (57)	2	5.56
Salem	CO ₂	33 (4)		
TOTAL		7408 (345)	17	2.29*

Additional *Cs. melanura*:
Three hundred and forty-six additional pools containing 7408 *Cs. melanura* have been tested from other sites using other traps in addition to resting boxes. A total of 17 positive *Cs. melanura* pools from non-traditional sites have been detected to date, with four new positive pools (1 each in Cape May, Monmouth and Ocean Counties). 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.

Species other than <i>Cs. melanura</i>	Pools	Mosquitoes	Positives	MFIR
<i>Aedes albopictus</i>	15	37		
<i>Aedes atlanticus</i>	3	75		
<i>Aedes canadensis canadensis</i>	14	138		
<i>Aedes cantator</i>	19	24		
<i>Aedes infirmatus</i>	1	1		
<i>Aedes japonicus</i>	10	21		
<i>Aedes sollicitans</i>	4	19		
<i>Aedes sticticus</i>	2	3		
<i>Aedes taeniorhynchus</i>	1	2		
<i>Aedes triseriatus</i>	7	25		
<i>Aedes vexans</i>	2	33		
<i>Anopheles bradleyi</i>	19	131	1	7.634
<i>Anopheles crucians</i>	3	15		
<i>Anopheles punctipennis</i>	11	66		
<i>Anopheles quadrimaculatus</i>	7	28		
<i>Coquillettidia perturbans</i>	24	338	1	2.959
<i>Culex erraticus</i>	108	2854	2	0.701
<i>Culex pipiens</i>	376	5139	1	0.195
<i>Culex restuans</i>	4	4		
<i>Culex salinarius</i>	81	763	1	1.311
<i>Culex spp.</i>	78	532		
<i>Psorophora columbiae</i>	3	7		
State Total	792	10255	6	0.585

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

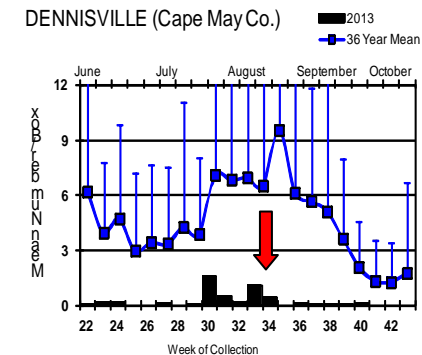
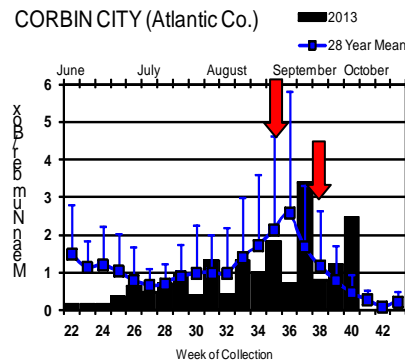
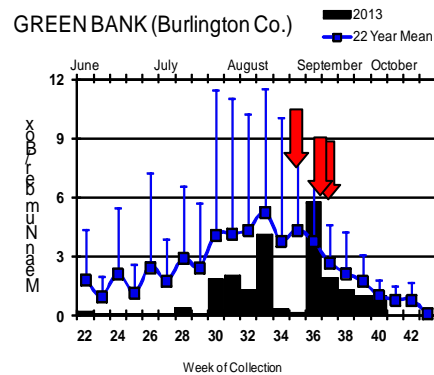
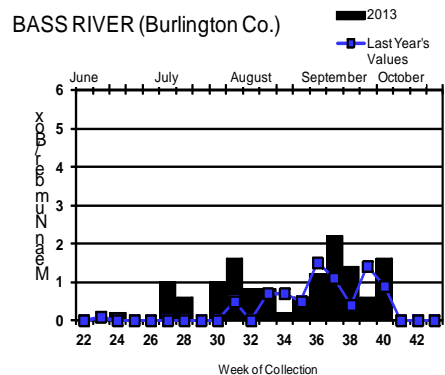
Additional Species: The table to the left indicates non-*Cs. melanura* mosquitoes tested for EEE. No additional non-melanura pools were found positive this past week. First positive in a non-*Cs. melanura* species was a pool of *Cx. salinarius* collected 3 August in Cape May County. *Coquillettidia perturbans*, 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 both Monmouth and Ocean County. One pool of *Anopheles bradleyi* from Burlington County, collected 17 Sep was positive.

Horses and Humans: Currently there are no reported human cases or new horse cases. Three presumptive horse cases have been 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, a 7 month old unvaccinated colt, was in Monmouth County with an onset date of 27 August. This horse died two days later. The third horse case is a 9 yo mare from Ocean County with an unknown vaccination history and date of onset of 10 September and euthanized 11 September.

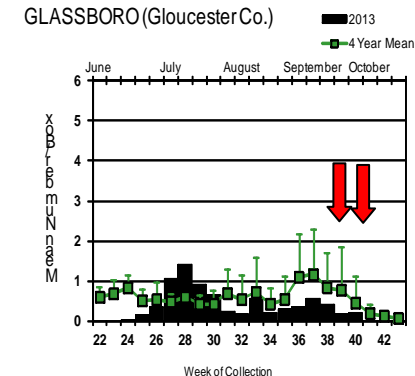
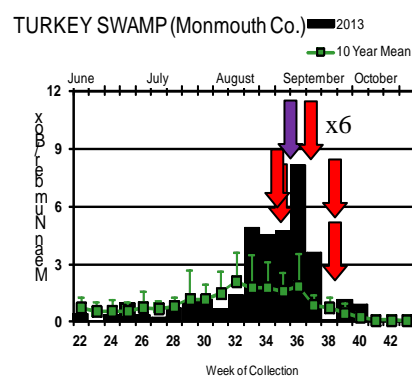
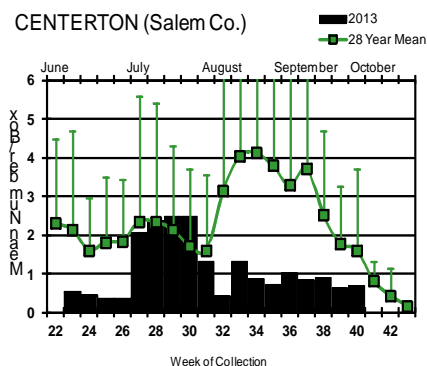
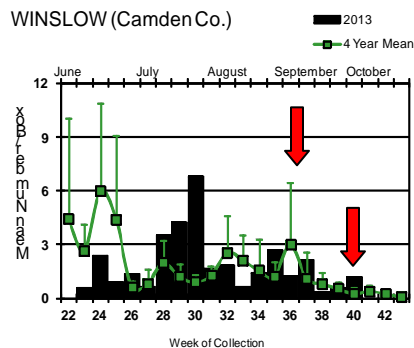
Horses and Vaccinations: The fate of unvaccinated equids reinforces the necessity of maintaining a vaccination schedule for arboviruses. For vaccination schedules recommended by the American Association of Equine Practices, see: http://www.aaep.org/vaccination_guidelines.htm

Culiseta melanura Population Graphs

Coastal




Inland



Cs. melanura populations increased at several sites to above historical levels, including Bass River, Green Bank, Corbin City, Winslow and Turkey Swamp. Two new positive pools were detected, one each at Winslow and Glassboro.

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) 3(AR) 31(FL) 20(GA) 1(KY) 6(LA) 4(MA) 3(ME) 1(MD) 1(MI) 9(MS) 12(NC) 2(NH) 3(NJ) 1(NY) 36(SC) 1(TX) 1(VA) 2(VT)
- mosquito pools: 45(CT) 1(GA) 60(MA) 9(MD) 26(ME) 1(NC) 20(NH) 42(NJ) 45(NY) 4(RI) 98(VA) 22(VT)
- sentinel: 3(AL) 1(DE) 140/4 wild(FL) 1(GA) 1pheasant1emu(ME) 2(NC) 30(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					5
Alaska					
Arizona	0	182/185	6	1	34/38
Arkansas				1/2	6
California	1102/1134	2379/2440	404/425	10/16	206
Colorado	11	441		8/12	230/245
Connecticut		87			2
Delaware	8		16	2	2
DC		23			
Florida			89	2	1
Georgia	0	64		2	2/4
Hawaii					
Idaho		178		9	24
Illinois	77/80	2468/2619		4/10	27/40
Indiana	0	455/466		1	11/14
Iowa		30/47	9/15	5/9	26/38
Kansas		11		6	20
Kentucky	1			4/7	2
Louisiana		171	66	2	35
Maine		3		0	0
Maryland		9/10		1	8/10
Mass.		329/332		1	6
Michigan	46	19		3	21
Minnesota	1	48		2	61/71
Mississippi		46		2	39
Missouri		4/11		9/13	7/14

	Birds	Mosquito Pools	Sentinels	Horses	Humans
Montana	1	19		27	23
Nebraska	4	237/238		6	85/135
Nevada	1	47			8
New Hampshire		10/13			1
New Jersey	31/34	622/634		0	11
New Mexico		1		3	18/21
New York		563/569	1	8/10	15/17
North Carolina				2	1
North Dakota	8	23		1	88/104
Ohio		130/169		2/3	6/10
Oklahoma		36/41		5	29/33
Oregon	1	85	0	2	14
Pennsylvania	27	1499		1/2	11
Rhode Island		7			
South Carolina	1			1	1
South Dakota	8	392		3	122
Tennessee	1	695/713		1	12/15
Texas	3/4	386/407		12	66/80
Utah	1	66	2	7	7
Vermont		23		1	1
Virginia		126	6/10	1	2/3
Washington	0	18		1	1
West Virginia		26			
Wisconsin	62	20		0	11
Wyoming	5	52		18/19	31/36

* 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 5 October 2013

Species	Pools	Mosquitoes	Positives	MFIR
<i>Aedes albopictus</i>	757	6125	2	0.327
<i>Aedes atlanticus</i>	6	80		
<i>Aedes atropalpus</i>	4	7		
<i>Aedes canadensis canadensis</i>	57	880		
<i>Aedes cantator</i>	31	114		
<i>Aedes grossbecki</i>	1	1		
<i>Aedes infirmatus</i>	1	1		
<i>Aedes japonicus</i>	417	2336	2	0.856
<i>Aedes sollicitans</i>	10	47		
<i>Aedes sticticus</i>	3	5		
<i>Aedes taeniorhynchus</i>	14	123		
<i>Aedes triseriatus</i>	117	310	1	3.226
<i>Aedes trivittatus</i>	9	64		
<i>Aedes vexans</i>	74	714		
<i>Anopheles bradleyi</i>	29	170		
<i>Anopheles crucians</i>	6	107		
<i>Anopheles punctipennis</i>	46	258	1	3.876
<i>Anopheles quadrimaculatus</i>	104	1911		
<i>Coquilleltidia perturbans</i>	37	453		
<i>Culex erraticus</i>	117	2872	1	0.348
<i>Culex pipiens</i>	846	21480	78	3.631
<i>Culex restuans</i>	552	6310	23	3.645
<i>Culex salinarius</i>	86	772	1	1.295
<i>Culex spp.</i>	3272	132024	502	3.802
<i>Culex territans</i>	14	17		
<i>Culiseta melanura</i>	545	12847	23	1.790
<i>Orthopodomyia signifera</i>	4	4		
<i>Psorophora ciliata</i>	3	4		
<i>Psorophora columbiae</i>	22	167		
<i>Psorophora ferox</i>	30	364		
<i>Psorophora howardii</i>	1	10		
<i>Uranotaenia sapphirina</i>	1	1		
State Total	7216	190578	634	3.327

Remarks: To date, 7216 pools of 190578 mosquitoes from 31 species have been tested, with 634 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*, *Aedes triseriatus*, *Anopheles punctipennis*, *Culex erraticus* and *Culex salinarius*.

Humans, Horses and Wild Birds: To date, eleven 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 (2), Camden (5), Gloucester (1), Morris (1) and Ocean (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. Thirty-four positive birds have been reported, mostly corvids. First American Crow positive has been detected. To date, 121 birds have been tested. Testing includes: American Crow (*Corvus brachyrhynchos* 1/6),

Fish Crow (*C. ossifragus* 7/18), unidentified Crow (*Corvus* spp. 4/7), Blue Jay (*Cyanocitta cristata* 15/21), Hawk/Raptor (0/9) and other avian species (7/60). Counties (positives) submitting birds are Atlantic, Bergen, Burlington, Cape May, Cumberland, Essex, Gloucester, Hunterdon, Mercer, Middlesex, Monmouth, Morris, Ocean, Salem, Sussex, Union and Warren.

2013 Positive Mosquito pools to date / Total Mosquito Pools Submitted (PHEL)	This time last year (PHEL)
635 / 7219 (0.088)	1000 / 7306 (0.137)
2013 Positive Birds to date / Total Birds Submitted	This time last year
34 / 121 (0.281)	129 / 296 (0.436)

WNV Results by County through 5 October 2013

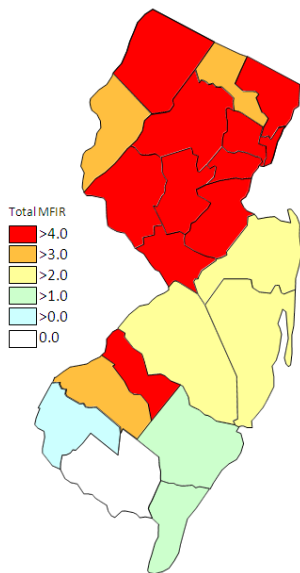
County	Species	Pools	Mosquitoes	Positives	MFIR
Atlantic		184	3230	1	0.310
	<i>Aedes albopictus</i>	18	169		
	<i>Aedes canadensis canadensis</i>	4	81		
	<i>Aedes cantator</i>	3	36		
	<i>Aedes grossbecki</i>	1	1		
	<i>Aedes japonicus</i>	8	28		
	<i>Aedes sollicitans</i>	2	23		
	<i>Aedes sticticus</i>	2	3		
	<i>Aedes taeniorhynchus</i>	6	30		
	<i>Aedes triseriatus</i>	6	14		
	<i>Aedes vexans</i>	15	292		
	<i>Anopheles bradleyi</i>	7	30		
	<i>Anopheles crucians</i>	1	47		
	<i>Anopheles punctipennis</i>	4	14		
	<i>Anopheles quadrimaculatus</i>	3	11		
	<i>Coquillettidia perturbans</i>	6	37		
	<i>Culex erraticus</i>	9	111		
	<i>Culex</i> spp.	51	1694	1	0.590
	<i>Culiseta melanura</i>	28	449		
	<i>Psorophora ciliata</i>	1	1		
	<i>Psorophora columbiae</i>	2	2		
	<i>Psorophora ferox</i>	5	146		
	<i>Psorophora howardii</i>	1	10		
	<i>Uranotaenia sapphirina</i>	1	1		
Bergen		184	10778	85	7.886
	<i>Aedes albopictus</i>	1	6		
	<i>Aedes japonicus</i>	5	42		
	<i>Anopheles punctipennis</i>	1	1		
	<i>Culex</i> spp.	177	10729	85	7.922
Burlington		264	9206	23	2.498
	<i>Aedes albopictus</i>	14	201		
	<i>Aedes atlanticus</i>	2	53		
	<i>Aedes canadensis canadensis</i>	7	101		
	<i>Aedes infirmatus</i>	1	1		
	<i>Aedes japonicus</i>	12	76		
	<i>Aedes taeniorhynchus</i>	1	2		
	<i>Aedes triseriatus</i>	1	17		
	<i>Aedes vexans</i>	2	10		

	<i>Anopheles bradleyi</i>	2	32		
	<i>Anopheles crucians</i>	2	47		
	<i>Anopheles punctipennis</i>	1	1		
	<i>Coquillettidia perturbans</i>	5	216		
	<i>Culex erraticus</i>	3	5		
	<i>Culex pipiens</i>	2	15		
	<i>Culex restuans</i>	2	2		
	<i>Culex salinarius</i>	4	100		
	<i>Culex spp.</i>	84	3100	14	4.516
	<i>Culiseta melanura</i>	117	5222	9	1.723
	<i>Psorophora ciliata</i>	1	1		
	<i>Psorophora columbiae</i>	1	4		
Camden		293	7967	34	4.268
	<i>Aedes albopictus</i>	41	185		
	<i>Aedes japonicus</i>	40	113	1	8.850
	<i>Aedes triseriatus</i>	1	2		
	<i>Anopheles punctipennis</i>	1	1		
	<i>Culex spp.</i>	173	6140	31	5.049
	<i>Culiseta melanura</i>	37	1526	2	1.311
Cape May		1793	17792	31	1.742
	<i>Aedes albopictus</i>	174	378		
	<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>	17	99		
	<i>Anopheles punctipennis</i>	1	1		
	<i>Anopheles quadrimaculatus</i>	74	1763		
	<i>Coquillettidia perturbans</i>	4	8		
	<i>Culex erraticus</i>	74	2523		
	<i>Culex pipiens</i>	492	6460	23	3.560
	<i>Culex restuans</i>	476	3709	3	0.809
	<i>Culex salinarius</i>	75	602	1	1.661
	<i>Culex spp.</i>	61	204	1	4.902
	<i>Culex territans</i>	14	17		
	<i>Culiseta melanura</i>	124	1586	3	1.892
	<i>Orthopodomyia signifera</i>	4	4		
	<i>Psorophora columbiae</i>	5	8		
	<i>Psorophora ferox</i>	8	11		
Essex		228	3053	4	1.310
	<i>Aedes albopictus</i>	92	612		
	<i>Aedes japonicus</i>	57	454		
	<i>Culex spp.</i>	79	1987	4	2.013
Gloucester		455	16783	51	3.039
	<i>Aedes albopictus</i>	22	618		
	<i>Aedes japonicus</i>	17	231		
	<i>Aedes triseriatus</i>	2	33		

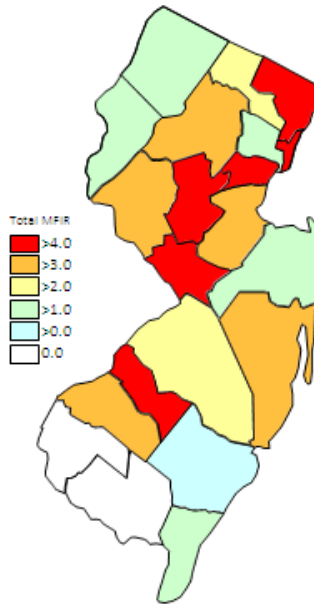
<i>Aedes vexans</i>	4	139		
<i>Anopheles punctipennis</i>	7	152	1	6.579
<i>Anopheles quadrimaculatus</i>	5	53		
<i>Coquillettidia perturbans</i>	4	74		
<i>Culex pipiens</i>	302	14251	49	3.438
<i>Culiseta melanura</i>	89	1144	1	0.874
<i>Psorophora ferox</i>	3	88		
Hudson	214	10880	61	5.607
<i>Culex</i> spp.	214	10880	61	5.607
Hunterdon	339	15549	53	3.409
<i>Culex</i> spp.	339	15549	53	3.409
Mercer	280	7039	46	6.535
<i>Aedes albopictus</i>	69	613		
<i>Aedes japonicus</i>	20	76	1	13.158
<i>Aedes triseriatus</i>	5	12		
<i>Aedes vexans</i>	5	124		
<i>Culex erraticus</i>	6	14		
<i>Culex pipiens</i>	47	751	6	7.989
<i>Culex restuans</i>	69	2594	20	7.710
<i>Culex salinarius</i>	1	5		
<i>Culex</i> spp.	58	2850	19	6.667
Middlesex	247	7251	27	3.724
<i>Aedes albopictus</i>	14	189		
<i>Aedes japonicus</i>	4	20		
<i>Culex</i> spp.	229	7042	27	3.834
Monmouth	335	4710	9	1.911
<i>Aedes albopictus</i>	60	680		
<i>Aedes atlanticus</i>	3	25		
<i>Aedes canadensis canadensis</i>	17	260		
<i>Aedes cantator</i>	6	20		
<i>Aedes japonicus</i>	31	111		
<i>Aedes sollicitans</i>	1	1		
<i>Aedes taeniorhynchus</i>	1	1		
<i>Aedes triseriatus</i>	17	43		
<i>Aedes trivittatus</i>	6	9		
<i>Aedes vexans</i>	8	22		
<i>Anopheles punctipennis</i>	17	40		
<i>Anopheles quadrimaculatus</i>	3	4		
<i>Coquillettidia perturbans</i>	3	7		
<i>Culex erraticus</i>	7	62		
<i>Culex restuans</i>	2	2		
<i>Culex salinarius</i>	1	50		
<i>Culex</i> spp.	80	1544	3	1.943
<i>Culiseta melanura</i>	62	1715	6	3.499
<i>Psorophora columbiae</i>	4	70		
<i>Psorophora ferox</i>	6	44		
Morris	395	14440	44	3.047
<i>Culex</i> spp.	395	14440	44	3.047

Ocean	397	4749	16	3.369
<i>Aedes albopictus</i>	104	1270	1	0.787
<i>Aedes canadensis canadensis</i>	22	418		
<i>Aedes cantator</i>	2	33		
<i>Aedes japonicus</i>	35	115		
<i>Aedes sollicitans</i>	1	2		
<i>Aedes triseriatus</i>	6	12		
<i>Aedes vexans</i>	16	23		
<i>Anopheles bradleyi</i>	1	1		
<i>Anopheles crucians</i>	3	13		
<i>Anopheles punctipennis</i>	3	4		
<i>Anopheles quadrimaculatus</i>	2	7		
<i>Coquillettidia perturbans</i>	9	73		
<i>Culex erraticus</i>	11	55	1	18.182
<i>Culex restuans</i>	1	1		
<i>Culex salinarius</i>	5	15		
<i>Culex</i> spp.	119	2347	12	5.113
<i>Culiseta melanura</i>	57	360	2	5.556
Passaic	223	6938	18	2.594
<i>Aedes albopictus</i>	28	99		
<i>Aedes japonicus</i>	26	200		
<i>Aedes triseriatus</i>	9	15		
<i>Aedes trivittatus</i>	2	51		
<i>Aedes vexans</i>	2	51		
<i>Anopheles punctipennis</i>	2	4		
<i>Anopheles quadrimaculatus</i>	2	20		
<i>Coquillettidia perturbans</i>	1	2		
<i>Culex</i> spp.	149	6494	18	2.772
<i>Psorophora ferox</i>	2	2		
Salem	257	4794		
<i>Aedes albopictus</i>	38	172		
<i>Aedes japonicus</i>	24	91		
<i>Aedes sollicitans</i>	2	2		
<i>Aedes sticticus</i>	1	2		
<i>Aedes triseriatus</i>	14	38		
<i>Anopheles bradleyi</i>	2	8		
<i>Anopheles punctipennis</i>	6	23		
<i>Anopheles quadrimaculatus</i>	14	48		
<i>Coquillettidia perturbans</i>	5	36		
<i>Culex erraticus</i>	7	102		
<i>Culex pipiens</i>	3	3		
<i>Culex restuans</i>	2	2		
<i>Culex</i> spp.	92	3294		
<i>Culiseta melanura</i>	30	815		
<i>Psorophora ciliata</i>	1	2		
<i>Psorophora columbiae</i>	10	83		
<i>Psorophora ferox</i>	6	73		
Somerset	282	6225	28	4.498
<i>Aedes albopictus</i>	26	144		
<i>Aedes japonicus</i>	16	161		
<i>Aedes triseriatus</i>	5	14		
<i>Aedes vexans</i>	2	16		
<i>Culex</i> spp.	233	5890	28	4.754

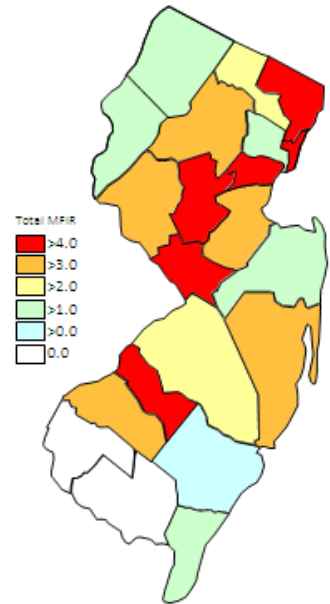
Sussex	272	11916	16	1.343
<i>Aedes japonicus</i>	14	273		
<i>Culex</i> spp.	257	11613	16	1.378
<i>Culiseta melanura</i>	1	30		
Union	257	13652	68	4.981
<i>Aedes albopictus</i>	39	582		
<i>Aedes japonicus</i>	9	137		
<i>Culex</i> spp.	209	12933	68	5.258
Warren	317	13626	19	1.394
<i>Aedes albopictus</i>	17	207	1	4.831
<i>Aedes canadensis canadensis</i>	1	13		
<i>Aedes japonicus</i>	12	40		
<i>Aedes triseriatus</i>	8	41	1	24.390
<i>Aedes trivittatus</i>	1	4		
<i>Aedes vexans</i>	1	5		
<i>Anopheles punctipennis</i>	3	17		
<i>Anopheles quadrimaculatus</i>	1	5		
<i>Culex</i> spp.	273	13294	17	1.279
Grand Total	7216	190578	634	3.327



Cumulative WNV activity in 2012.



WNV activity to 5 October 2013.



WNV activity last week, 2013.

Saint Louis Encephalitis (SLE) to 5 October 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		48	1460		
	<i>Aedes albopictus</i>	5	81		
	<i>Aedes japonicus</i>	2	13		
	<i>Culex erraticus</i>	1	2		
	<i>Culex pipiens</i>	40	1364		
Cape May		368	4782		
	<i>Culex pipiens</i>	356	4748		
	<i>Culex</i> spp.	12	34		
Salem		2	122		
	<i>Culex</i> spp.	2	122		
Grand Total		418	6364		

La Crosse Encephalitis (LAC) through 5 October 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		14	52		
	<i>Aedes triseriatus</i>	14	52		
Grand Total		54	134		