

VECTOR SURVEILLANCE IN NEW JERSEY

EEE, WNV, SLE and LAC

Prepared by Lisa M. Reed, Scott Crans and Mark Robson

Center for Vector Biology, Rutgers University

CDC WEEK 33: August 12 to August 18, 2012

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Culiseta melanura and Eastern Equine Encephalitis

SITE/Boxes	Inland / Coastal	Historic Population Mean	Current Weekly Mean	Total (Collected) Tested*	Total Pools (Submitted) Tested	EEE Isolation Pools	MFIR
Bass River (Burlington Co.)/10	Coastal	na	0.10	(7) 6	(3) 2		
Green Bank (Burlington Co.)/25	Coastal	5.45	0.92	(42) 20	(6) 5	1	50.00
Corbin City (Atlantic Co.)/25	Coastal	1.45	0.52	157 [‡]	11		
Dennisville (Cape May Co.)/50	Coastal	6.68	0.04	93	11	2	21.51
Winslow (Camden Co.)/50	Inland	2.46	1.02	1725	39	8	4.64
Centerton (Salem Co.)/50	Inland	4.16	0.40	353	14	2	5.67
Turkey Swamp (Monmouth Co.)/47	Inland	1.95	0.17	532 [‡]	16	1	1.88
Glassboro (Gloucester Co.)/50	Inland	0.90	0.18	155	11	1	6.45

*Including trial run last week in May. ‡ Adjusted.

Remarks: The number of positive pools at the traditional resting box sites increased from 8 to 15. New positive pools were detected at Green Bank, Turkey Swamp and Glassboro in addition to increases at previous sites of activity (Dennisville, Winslow and Centerton). EEE virus appears disseminated throughout southern New Jersey.

To date 3041 *Cs. melanura* from 109 pools have been tested from the traditional resting box sites, with two additional pools in the system to be tested. Fifteen positive pools have been detected at these sites, for an MFIR of 4.93. A total of 21 positive pools have been detected in New Jersey, with an additional six positive pools in traps set by individual counties for an MFIR of 1.19 (see below). Overall *Cs. melanura* MFIR value for the state is 2.60, increasing from 1.69 of last week. All positive pools have been in *Culiseta melanura*.

Two hundred seventy-seven additional pools containing 5032 *Cs. melanura* have been tested from other sites using other traps in addition to resting boxes. One new positive pool from an Ocean County CO₂ trap was detected. A season total of 6 positive *Cs. melanura* pools from these sites have been detected.

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
Burlington	CO₂ , Other	3264 (75)	1	0.31
Cape May	Gravid, RB	419 (87)		
Cumberland	CO ₂ , Gravid, RB	270 (21)		
Gloucester	CO ₂ , RB	982 (72)	4	4.07
Monmouth	Gravid	9 (2)		
Ocean	CO₂ , Gravid, RB	85 (17)	1	11.76
Salem	CO ₂	3 (3)		
TOTAL		5032 (277)	6	1.19

Horses and Humans: A presumptive positive horse with an unusually early onset date of 25 May has been reported for Burlington County. The horse was reportedly vaccinated in early May. A second horse has been reported, also from Burlington County. Date of onset was 22 July, with the horse euthanized on the same date and no reported vaccination history.

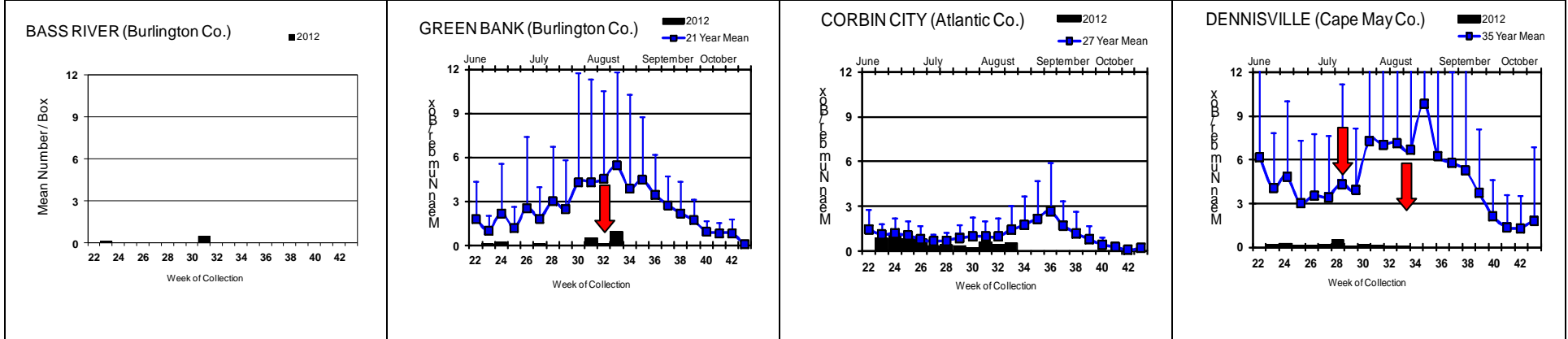
Horses and Vaccinations: The fate of unvaccinated equids reinforces the necessity of maintaining a vaccination schedule for arboviruses. For vaccination schedules recommended by the American Association of Equine Practices, see: http://www.aaep.org/vaccination_guidelines.htm

Species other than <i>Cs. melanura</i>	Pools	Mosquitoes	Positives	MFIR
<i>Aedes albopictus</i>	7	35		
<i>Aedes canadensis canadensis</i>	8	239		
<i>Aedes cantator</i>	36	472		
<i>Aedes japonicus</i>	18	72		
<i>Aedes mitchellae</i>	4	60		
<i>Aedes sollicitans</i>	6	18		
<i>Aedes sticticus</i>	1	8		
<i>Aedes triseriatus</i>	4	4		
<i>Aedes trivittatus</i>	1	2		
<i>Aedes vexans</i>	5	81		
<i>Anopheles bradleyi</i>	30	93		
<i>Anopheles crucians</i>	4	38		
<i>Anopheles punctipennis</i>	19	74		
<i>Anopheles quadrimaculatus</i>	17	54		
<i>Coquillettidia perturbans</i>	64	1607		
<i>Culex erraticus</i>	138	4944		
<i>Culex pipiens</i>	461	4802		
<i>Culex restuans</i>	4	56		
<i>Culex salinarius</i>	127	454		
<i>Culex sp.</i>	137	4446		
<i>Psorophora columbiae</i>	1	5		
State Total	1092	17654		

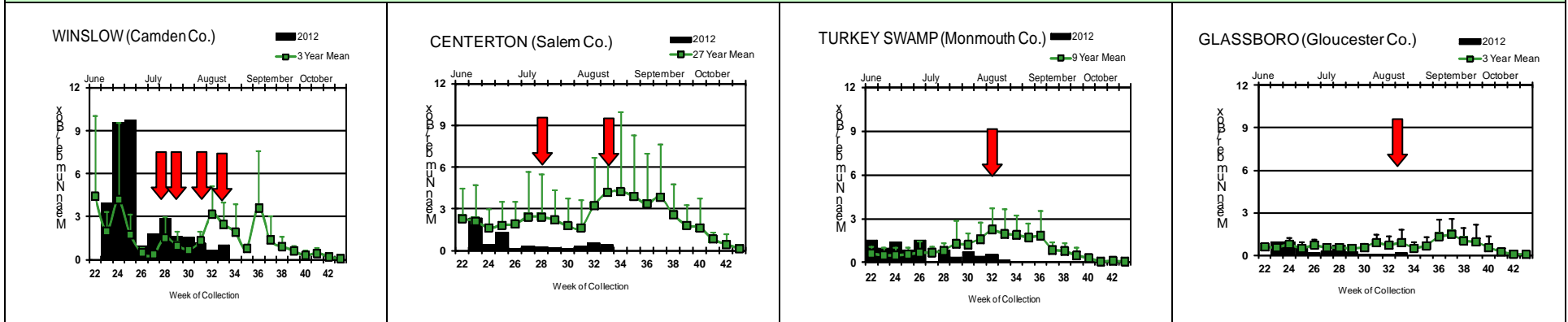
The table to the left indicates non-*Cs. melanura* mosquitoes tested for EEE. An additional 20 species of mosquitoes have been tested with no detection of EEE.

Culiseta melanura Population Graphs

Coastal



Inland



Populations of *Culiseta melanura* at all sites are now at or below historical levels but have risen at a few sites during the past week. Virus detection went from three sites to six reflecting the increased dissemination of virus throughout southern New Jersey.

↓ = Positive pool(s) detected.

EEE in US (2012 cumulative cases): (Black or Red = previous + new reported cases occurring)

- equine: 5(AL) 16(FL) 5(GA) 14(LA) 22(MS) 8(NC) 2(NJ) 1(NY) 6(SC)
- mosquito pools: 1(CT) 1(LA) 91(MA) 13(NJ) 1(RI)
- sentinel: 1(DE) 32(FL) 2 wild(ME) 3(NC)
- human: 1(FL) 1(MA)

West Nile Virus

West Nile in US (2012 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	14		8		4/6
Alaska					
Arizona		17/93	2	1	7
Arkansas					6
California	648/717	1136/1347	76/131	4/6	18/26
Colorado		35/54		5	3
Connecticut		135/165		0	2
Delaware	4/7		2		
DC					
Florida	0		83	0	4/9
Georgia	0	29	0	0	4/9
Hawaii					
Idaho		12/18		0	1/3
Illinois	35/48	1691/2292		1	6/11
Indiana	1/2	234/340		3	4/7
Iowa		0	0	2	3
Kansas					8
Kentucky				1/3	1
Louisiana		1755/1951	53/69	13/16	39/92
Maine		1			
Maryland		1/2			2/5
Mass.		80/111		1	1
Michigan	1/6	4/15		1/2	10/24
Minnesota	5/13	13/43		1/2	7/20
Mississippi		44		2	59/78
Missouri		18/79		1	1/2

	Birds	Mosquito Pools	Sentinels	Horses	Humans
Montana		2			1
Nebraska	5	94/108			13
Nevada					
New Hampshire		26/34		0	0
New Jersey	43/48	491/595		1	1/2
New Mexico		8		5	2
New York		470/605			4
North Carolina					1
North Dakota	1	0		3/9	1/14
Ohio		532/695			2/9
Oklahoma		26		1	31/61
Oregon	1	32/33	0	0	0
Pennsylvania	41/51	1665/2136		3/7	4/8
Rhode Island		1/2		0	0
South Carolina	1/8	1		2	7
South Dakota	1	57/61		2/6	31/67
Tennessee	1	430/534		0	2/3
Texas	59/75	828/929		10/14	351/455
Utah		5/7	0	0	1/2
Vermont				0	0
Virginia					
Washington	0	2		0	0
West Virginia		93/125			
Wisconsin	3	0		0	1
Wyoming		9/13		1	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 20 August 2012

Species	Pools	Mosquitoes	Positives	MFIR
<i>Aedes albopictus</i>	696	5277	1	0.190
<i>Aedes atlanticus</i>	6	8		
<i>Aedes canadensis canadensis</i>	61	1552		
<i>Aedes cantator</i>	68	877		
<i>Aedes grossbecki</i>	2	2		
<i>Aedes japonicus</i>	376	2027	4	1.973
<i>Aedes mitchellae</i>	4	60		
<i>Aedes sollicitans</i>	10	30		
<i>Aedes sticticus</i>	7	124		
<i>Aedes taeniorhynchus</i>	15	196		
<i>Aedes triseriatus</i>	181	406		
<i>Aedes trivittatus</i>	6	10		
<i>Aedes vexans</i>	66	579	1	1.727
<i>Anopheles bradleyi</i>	48	391		
<i>Anopheles crucians</i>	6	43		
<i>Anopheles punctipennis</i>	75	290	1	3.448
<i>Anopheles quadrimaculatus</i>	86	295		
<i>Coquillettidia perturbans</i>	82	1844		
<i>Culex erraticus</i>	150	5071		
<i>Culex pipiens</i>	1023	26174	92	3.515
<i>Culex restuans</i>	290	1588	1	0.630
<i>Culex salinarius</i>	162	708		
<i>Culex sp.</i>	2454	93902	487	5.186
<i>Culex territans</i>	29	48		
<i>Culiseta melanura</i>	409	8131	8	0.984
<i>Culiseta minnesotae</i>	1	2		
<i>Orthopodomyia signifera</i>	12	12		
<i>Psorophora columbiae</i>	6	135		
<i>Psorophora ferox</i>	8	54		
<i>Psorophora howardii</i>	1	1		
State Total	6340	149,837	595	3.971

Remarks: To date, there have been 149,837 mosquitoes tested in 6,340 pools from 29 species. Currently, 591 positive pools have been detected in *Aedes albopictus*, *Ae. japonicus*, *Anopheles punctipennis*, *Culex pipiens*, Mixed Cx. species, *Culex restuans*, *Culiseta melanura* and most recently in *Aedes vexans*, a moderately competent vector. Mixed *Culex* pools continued to increase in positive pools from 408 to 487, with MFIR values increasing from 4.637 to 5.186.

Humans, Horses and Wild Birds: One human case (19 yo female) has been reported in Monmouth County, with onset of symptoms on 12 July and possible acquisition in Ocean County. A second case from Hudson County, onset date of 19 July has been reported (probable exposure out of state). See <http://www.state.nj.us/health/cd/westnile/techinfo.shtml> for further information.

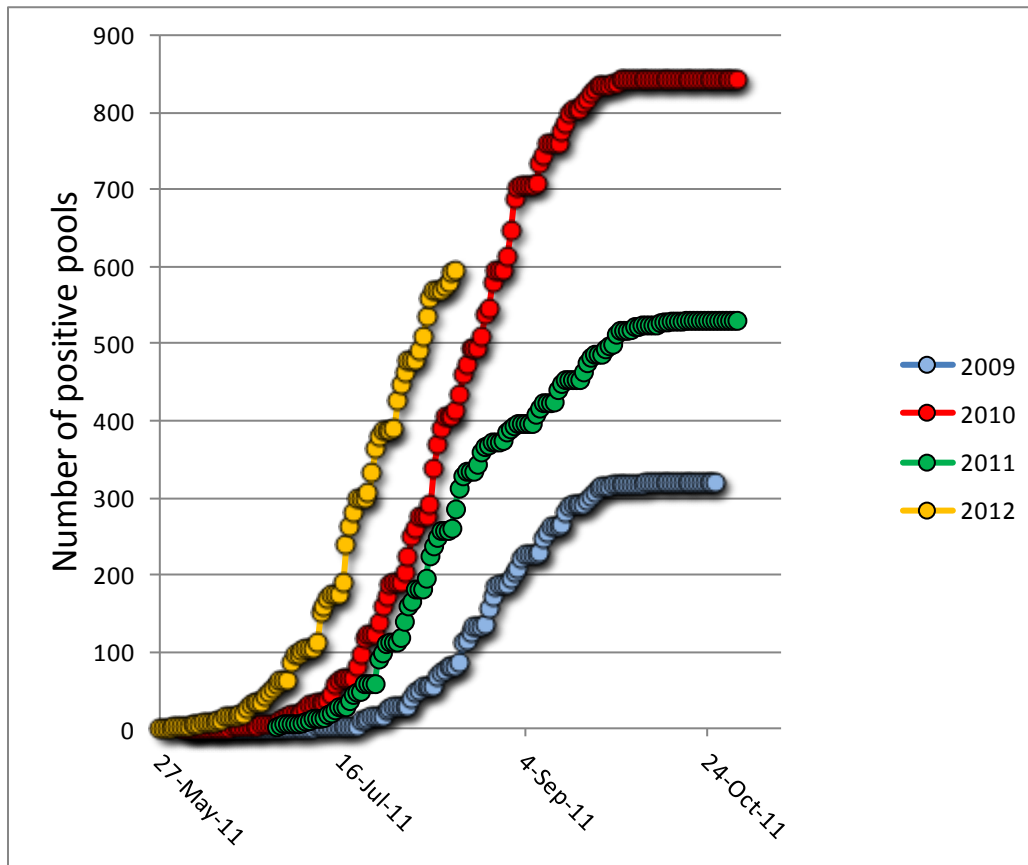
One WNV positive 11 yo quarter horse was reported from Salem County, with onset of symptoms on 4th August. The horse was put down the same day. Generally horses have either an unknown or no vaccination history, but this horse was reported as vaccinated. See http://www.esrutgers.com/downloads/NJDA_08102012.pdf In the very active year of 2010, the first WNV horse case had an onset date of 17 August.

Bird testing began in mid-April. To date, WNV has been detected in forty-eight birds out of 150 tested. WNV was first detected in an American Crow (*Corvus brachyrhynchos*) from Morris County, collected 9 April. To date, testing includes:

American Crow (*Corvus brachyrhynchos* 18/23), Fish Crow (*Corvus ossifragus* 12/35), unidentified Crow (*Corvus* spp. 9/17), Blue Jay (*Cyanocitta cristata* 5/13), Hawk/Raptor (1/8) and other avian species (3/54). Counties submitting birds are Atlantic, Bergen, Burlington, Cape May, Cumberland, Essex, Gloucester, Hunterdon, Mercer, Middlesex, Monmouth, Morris, Ocean, Somerset, Sussex and Warren.

2012 Positive Mosquito pools to date / Total Mosquito Pools Submitted	This time last year
595 / 6340 (0.094)	332 / 4109 (0.081)
2012 Positive Birds to date / Total Birds Submitted	This time last year
48 / 150 (0.320)	16 / 69 (0.232)

Activity continues to increase, as seen by plotting cumulative positive pools (graph below).



WNV Results by County through 20 August 2012

County	Species	Pools	Mosquitoes	Positives	MFIR
Atlantic		80	2011	3	1.492
	<i>Aedes albopictus</i>	12	187		
	<i>Aedes canadensis canadensis</i>	1	2		
	<i>Aedes cantator</i>	1	10		
	<i>Aedes japonicus</i>	6	24		
	<i>Aedes sollicitans</i>	1	9		
	<i>Aedes taeniorhynchus</i>	2	89		
	<i>Aedes triseriatus</i>	2	12		
	<i>Aedes trivittatus</i>	1	2		
	<i>Aedes vexans</i>	3	78		
	<i>Anopheles bradleyi</i>	1	3		

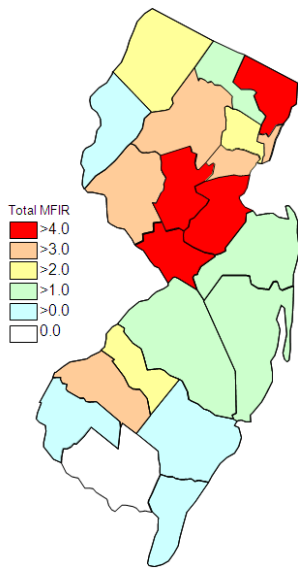
<i>Anopheles punctipennis</i>	1	15		
<i>Coquillettidia perturbans</i>	2	3		
<i>Culex erraticus</i>	3	34		
<i>Culex</i> spp.	30	1370	3	2.190
<i>Culiseta melanura</i>	12	164		
<i>Psorophora ferox</i>	1	8		
<i>Psorophora howardii</i>	1	1		
Bergen	135	8995	87	9.672
<i>Aedes albopictus</i>	1	7		
<i>Aedes japonicus</i>	1	4		
<i>Culex</i> spp.	133	8984	87	9.684
Burlington	346	11229	19	1.692
<i>Aedes albopictus</i>	12	203		
<i>Aedes canadensis canadensis</i>	6	214		
<i>Aedes cantator</i>	2	30		
<i>Aedes japonicus</i>	21	115	1	8.696
<i>Aedes mitchellae</i>	4	60		
<i>Aedes sticticus</i>	1	8		
<i>Aedes triseriatus</i>	4	14		
<i>Aedes trivittatus</i>	1	2		
<i>Aedes vexans</i>	6	88		
<i>Anopheles bradleyi</i>	2	79		
<i>Anopheles crucians</i>	3	37		
<i>Anopheles punctipennis</i>	3	14		
<i>Anopheles quadrimaculatus</i>	3	11		
<i>Coquillettidia perturbans</i>	24	967		
<i>Culex erraticus</i>	7	87		
<i>Culex pipiens</i>	6	222		
<i>Culex restuans</i>	3	55		
<i>Culex salinarius</i>	10	182		
<i>Culex</i> spp.	145	5546	14	2.524
<i>Culiseta melanura</i>	82	3290	4	1.216
<i>Psorophora columbiae</i>	1	5		
Camden	197	6999	36	5.144
<i>Aedes albopictus</i>	16	101		
<i>Aedes japonicus</i>	15	30	1	33.333
<i>Aedes triseriatus</i>	2	6		
<i>Aedes trivittatus</i>	1	2		
<i>Anopheles punctipennis</i>	1	2		
<i>Culex</i> spp.	123	5133	34	6.624
<i>Culiseta melanura</i>	39	1725	1	0.580
Cape May	2029	17232	9	0.522
<i>Aedes albopictus</i>	322	703		
<i>Aedes atlanticus</i>	4	6		
<i>Aedes canadensis canadensis</i>	7	66		
<i>Aedes cantator</i>	42	455		
<i>Aedes japonicus</i>	91	140		
<i>Aedes sollicitans</i>	7	19		
<i>Aedes taeniorhynchus</i>	12	106		
<i>Aedes triseriatus</i>	100	160		
<i>Aedes vexans</i>	10	40		
<i>Anopheles bradleyi</i>	30	91		

<i>Anopheles punctipennis</i>	15	19		
<i>Anopheles quadrimaculatus</i>	57	210		
<i>Coquillettidia perturbans</i>	5	24		
<i>Culex erraticus</i>	126	4852		
<i>Culex pipiens</i>	608	8384	9	1.073
<i>Culex restuans</i>	252	781		
<i>Culex salinarius</i>	130	333		
<i>Culex spp.</i>	68	266		
<i>Culex territans</i>	26	45		
<i>Culiseta melanura</i>	104	519		
<i>Orthopodomyia signifera</i>	12	12		
<i>Psorophora columbiae</i>	1	1		
Cumberland	128	1391		
<i>Aedes albopictus</i>	12	47		
<i>Aedes atlanticus</i>	2	2		
<i>Aedes canadensis canadensis</i>	4	25		
<i>Aedes cantator</i>	3	11		
<i>Aedes japonicus</i>	11	30		
<i>Aedes triseriatus</i>	6	13		
<i>Aedes vexans</i>	2	6		
<i>Anopheles crucians</i>	4	158		
<i>Anopheles bradleyi</i>	3	6		
<i>Anopheles punctipennis</i>	6	12		
<i>Anopheles quadrimaculatus</i>	1	1		
<i>Coquillettidia perturbans</i>	6	89		
<i>Culex erraticus</i>	3	8		
<i>Culex pipiens</i>	16	340		
<i>Culex restuans</i>	8	86		
<i>Culex salinarius</i>	10	148		
<i>Culex spp.</i>	3	13		
<i>Culex territans</i>	3	3		
<i>Culiseta melanura</i>	21	270		
<i>Psorophora columbiae</i>	2	104		
<i>Psorophora ferox</i>	2	19		
Essex	309	5459	25	4.580
<i>Aedes albopictus</i>	42	214		
<i>Aedes canadensis canadensis</i>	2	2		
<i>Aedes grossbecki</i>	2	2		
<i>Aedes japonicus</i>	36	339	1	2.950
<i>Aedes sticticus</i>	5	113		
<i>Aedes triseriatus</i>	9	22		
<i>Aedes vexans</i>	16	220		
<i>Culex spp.</i>	196	4543	24	5.283
<i>Psorophora ferox</i>	1	4		
Gloucester	424	14922	50	3.351
<i>Aedes albopictus</i>	23	786		
<i>Aedes japonicus</i>	6	127		
<i>Aedes triseriatus</i>	1	7		
<i>Aedes vexans</i>	1	2		
<i>Anopheles punctipennis</i>	15	78		
<i>Anopheles quadrimaculatus</i>	14	44		
<i>Coquillettidia perturbans</i>	1	2		
<i>Culex pipiens</i>	280	12739	47	3.689

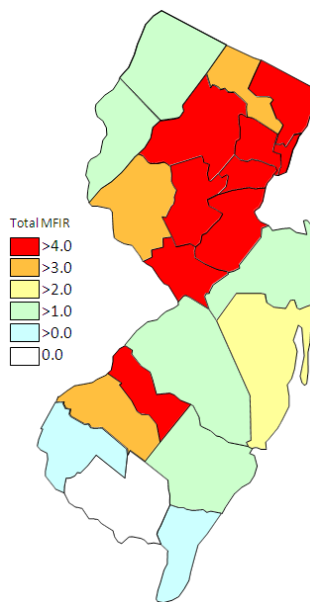
<i>Culiseta melanura</i>	83	1137	3	2.639
Hudson	161	10241	53	5.175
<i>Culex</i> spp.	161	10241	53	5.175
Hunterdon	193	9389	53	3.089
<i>Culex</i> spp.	193	9389	53	3.089
Mercer	202	5484	37	6.747
<i>Aedes albopictus</i>	40	366		
<i>Aedes japonicus</i>	32	177		
<i>Aedes triseriatus</i>	5	11		
<i>Aedes vexans</i>	1	3		
<i>Culex erraticus</i>	1	7		
<i>Culex pipiens</i>	104	4403	36	8.176
<i>Culex restuans</i>	18	464	1	2.155
<i>Culex</i> spp.	1	53		
Middlesex	196	7053	52	7.373
<i>Aedes albopictus</i>	16	185		
<i>Aedes japonicus</i>	15	120		
<i>Aedes triseriatus</i>	3	14		
<i>Culex</i> spp.	162	6734	52	7.722
Monmouth	243	3665	5	1.364
<i>Aedes albopictus</i>	42	240	1	4.167
<i>Aedes canadensis canadensis</i>	9	122		
<i>Aedes cantator</i>	8	43		
<i>Aedes japonicus</i>	37	139	1	7.194
<i>Aedes triseriatus</i>	12	17		
<i>Aedes vexans</i>	4	6		
<i>Anopheles punctipennis</i>	10	14		
<i>Coquillettidia perturbans</i>	3	4		
<i>Culex erraticus</i>	1	1		
<i>Culex pipiens</i>	1	1		
<i>Culex salinarius</i>	3	14		
<i>Culex</i> spp.	92	2513	3	1.194
<i>Culiseta melanura</i>	21	551		
Morris	265	10510	48	4.567
<i>Aedes japonicus</i>	13	156		
<i>Aedes triseriatus</i>	2	7		
<i>Anopheles punctipennis</i>	2	65		
<i>Coquillettidia perturbans</i>	3	149		
<i>Culex</i> spp.	245	10133	48	4.737
Ocean	294	5346	14	2.619
<i>Aedes albopictus</i>	70	1604		
<i>Aedes canadensis canadensis</i>	29	1112		
<i>Aedes cantator</i>	11	327		
<i>Aedes japonicus</i>	29	130		
<i>Aedes sollicitans</i>	2	2		
<i>Aedes taeniorhynchus</i>	1	1		
<i>Aedes triseriatus</i>	11	24		
<i>Aedes trivittatus</i>	1	2		

<i>Aedes vexans</i>	7	31	1	32.258
<i>Anopheles bradleyi</i>	7	39		
<i>Anopheles punctipennis</i>	2	2		
<i>Anopheles quadrimaculatus</i>	1	1		
<i>Coquillettidia perturbans</i>	17	418		
<i>Culex restuans</i>	1	1		
<i>Culex salinarius</i>	9	31		
<i>Culex</i> spp.	77	1534	13	8.475
<i>Culiseta melanura</i>	17	85		
<i>Psorophora ferox</i>	2	2		
Passaic	121	2265	7	3.091
<i>Aedes albopictus</i>	19	75		
<i>Aedes japonicus</i>	26	305		
<i>Aedes triseriatus</i>	10	25		
<i>Anopheles punctipennis</i>	3	5		
<i>Coquillettidia perturbans</i>	1	2		
<i>Culex</i> spp.	62	1853	7	3.778
Salem	216	2269	1	0.441
<i>Aedes albopictus</i>	33	99		
<i>Aedes canadensis canadensis</i>	2	6		
<i>Aedes cantator</i>	1	1		
<i>Aedes japonicus</i>	8	22		
<i>Aedes sticticus</i>	1	3		
<i>Aedes triseriatus</i>	4	4		
<i>Aedes vexans</i>	10	82		
<i>Anopheles bradleyi</i>	4	21		
<i>Anopheles punctipennis</i>	5	7		
<i>Anopheles quadrimaculatus</i>	7	25		
<i>Coquillettidia perturbans</i>	18	142		
<i>Culex erraticus</i>	9	82		
<i>Culex pipiens</i>	4	26		
<i>Culex restuans</i>	2	15		
<i>Culex</i> spp.	80	1308	1	0.765
<i>Culiseta melanura</i>	23	378		
<i>Culiseta minnesotae</i>	1	2		
<i>Psorophora columbiae</i>	2	25		
<i>Psorophora ferox</i>	2	21		
Somerset	172	3447	20	5.802
<i>Aedes albopictus</i>	11	63		
<i>Aedes canadensis canadensis</i>	1	3		
<i>Aedes japonicus</i>	15	102		
<i>Aedes triseriatus</i>	3	39		
<i>Aedes vexans</i>	1	8		
<i>Anopheles punctipennis</i>	2	13	1	76.923
<i>Culex</i> spp.	139	3219	19	5.902
Sussex	200	6489	8	1.233
<i>Coquillettidia perturbans</i>	1	43		
<i>Culex pipiens</i>	4	59		
<i>Culex restuans</i>	6	186		
<i>Culex</i> spp.	182	6189	8	1.293
<i>Culiseta melanura</i>	7	12		

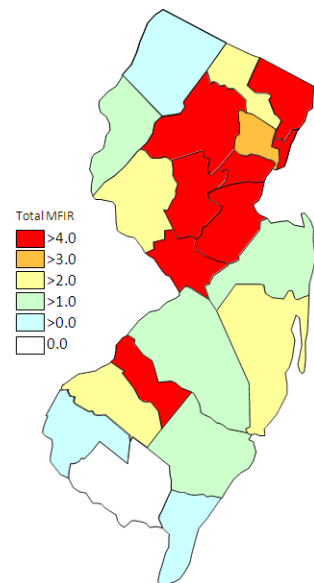
Union	216	10836	84	7.752
<i>Aedes albopictus</i>	25	397		
<i>Aedes japonicus</i>	3	42		
<i>Aedes triseriatus</i>	1	15		
<i>Culex</i> spp.	187	10382	84	8.091
Warren	213	4605	8	1.737
<i>Aedes japonicus</i>	11	25		
<i>Aedes triseriatus</i>	6	16		
<i>Aedes trivittatus</i>	2	2		
<i>Aedes vexans</i>	5	15		
<i>Anopheles punctipennis</i>	10	44		
<i>Anopheles quadrimaculatus</i>	3	3		
<i>Coquillettidia perturbans</i>	1	1		
<i>Culex</i> spp.	175	4499	8	1.778
Grand Total	6340	149837	595	3.971



Cumulative WNV activity in 2011.



WNV activity to 20 August 2012.



WNV activity last week, 2012.

Saint Louis Encephalitis (SLE) through 20 August 2012.

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 tested positive for SLE to date in 2012.

County	Species	Pools	Mosquitoes	Positives	MFIR
Burlington		266	9092		
	<i>Aedes albopictus</i>	5	32		
	<i>Aedes canadensis canadensis</i>	6	214		

<i>Aedes cantator</i>	2	30		
<i>Aedes japonicus</i>	18	72		
<i>Aedes mitchellae</i>	4	60		
<i>Aedes sticticus</i>	1	8		
<i>Aedes triseriatus</i>	3	3		
<i>Aedes trivittatus</i>	1	2		
<i>Aedes vexans</i>	4	65		
<i>Anopheles bradleyi</i>	1	4		
<i>Anopheles crucians</i>	3	37		
<i>Anopheles punctipennis</i>	2	13		
<i>Anopheles quadrimaculatus</i>	3	11		
<i>Coquillettidia perturbans</i>	20	892		
<i>Culex erraticus</i>	3	71		
<i>Culex pipiens</i>	6	222		
<i>Culex restuans</i>	3	55		
<i>Culex salinarius</i>	10	182		
<i>Culex</i> spp.	115	4567		
<i>Culiseta melanura</i>	55	2547		
<i>Psorophora columbiae</i>	1	5		
Camden	75	2601		
<i>Aedes albopictus</i>	7	31		
<i>Aedes japonicus</i>	4	6		
<i>Aedes triseriatus</i>	1	5		
<i>Anopheles punctipennis</i>	1	2		
<i>Culex</i> spp.	62	2557		
Essex	200	3900		
<i>Aedes albopictus</i>	23	48		
<i>Aedes canadensis canadensis</i>	2	2		
<i>Aedes grossbecki</i>	2	2		
<i>Aedes japonicus</i>	30	251		
<i>Aedes sticticus</i>	5	113		
<i>Aedes triseriatus</i>	9	22		
<i>Aedes vexans</i>	16	220		
<i>Culex</i> spp.	112	3238		
<i>Psorophora ferox</i>	1	4		
Hudson	74	4966		
<i>Culex</i> spp.	74	4966		
Grand Total	615	20559		

La Crosse Encephalitis (LAC) through 20 August 2012.

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 tested positive to date for 2012.

County	Species	Pools	Mosquitoes	Positives	MFIR
Cape May		77	127		
	<i>Aedes triseriatus</i>	76	125		
	<i>Culex</i> spp.	1	2		
Cumberland		6	13		
	<i>Aedes triseriatus</i>	6	13		
Salem		1	1		
	<i>Aedes triseriatus</i>	1	1		
Union		1	15		
	<i>Aedes triseriatus</i>	1	15		
Grand Total		85	156		