VECTOR SURVEILLANCE IN NEW JERSEY

EEE, WNV, SLE and LAC

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CDC WEEK 36: September 2 to September 8, 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	1.50	(34) 19	(6) 5		
Green Bank (Burlington Co.)/25	**Coastal**	3.45	10.20	(371) 116	(12) 8	1	8.62
Corbin City (Atlantic Co.)/25	**Coastal**	2.68	0.12	(181) 178	(14) 13		
Dennisville (Cape May Co.)/50	**Coastal**	5.79	0.72	174	14	2	11.49
Winslow (Camden Co.)/50	**Inland**	3.62	1.02	1923	45	8	4.16
Centerton (Salem Co.)/50	**Inland**	3.36	0.88	479	17	3	6.26
Turkey Swamp (Monmouth Co.)/48	**Inland**	1.71	0.88	(604) 562	(19) 18	2	3.56
Glassboro (Gloucester Co.)/50	**Inland**	1.34	0.36	191	14	1	5.24

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

Remarks: No new pools of EEE were detected in *Cs. melanura* collected at the seven traditional resting box sites. Additional positives were detected elsewhere (see next page). Note the very large increase in populations on the eastern side of New Jersey (Green Bank).

To date 3645 *Cs. melanura* from 135 pools have been tested from the traditional resting box sites, with seven additional pools in the system to be tested. Seventeen positive pools have been detected at these sites, for an MFIR of 4.66. A total of 26 positive pools have been detected in New Jersey, with nine detected positive pools in traps set by individual counties for an MFIR of 1.51 (see below). Overall *Cs. melanura* MFIR value for the state is 2.71. All positive pools remain in *Culiseta melanura*.

Three hundred nineteen additional pools containing 5965 *Cs. melanura* have been tested from other sites using other traps in addition to resting boxes. Two new positive pools were detected in Atlantic County (Co2 trap) and Gloucester County (resting box). A season total of 9 positive *Cs. melanura* pools from these sites have been detected.

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**	18 (1)	1	55.56
Burlington	**CO_2**, Other	3953 (87)	1	0.25
Cape May	Gravid, RB	500 (102)		
Cumberland	CO_2, Gravid, RB	270 (21)		
Gloucester	CO_2, **RB**	1120 (82)	6	5.36
Monmouth	Gravid	9 (2)		
Ocean	**CO_2**, Gravid, RB	92 (21)	1	10.87
Salem	CO_2	3 (3)		
TOTAL		**5965 (319)**	**9**	1.51

Horses and Humans: To date, four EEE positive horses have been identified: 1) 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. 2) A second horse has been reported, also from Burlington County. Date of onset was 22 July, with the 3.9 yo mare euthanized on the same date and no reported vaccination history. 3) A 3 yo mare from Atlantic County with date of onset of 10 Aug was euthanized on the same day (no vaccination history) and 4) a 4 yo mare from Camden County with date of onset 18 Aug was euthanized on same date, no vaccination history.

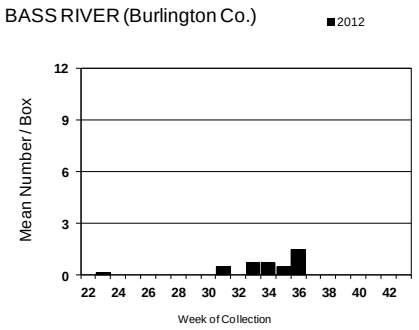
Horses and Vaccinations: The fate of unvaccinated equids reinforces the necessity of maintaining a vaccination schedule for arboviruses. For vaccination schedules recommended by the American Association of Equine Practices, see: http://www.aaep.org/vaccination_guidelines.htm

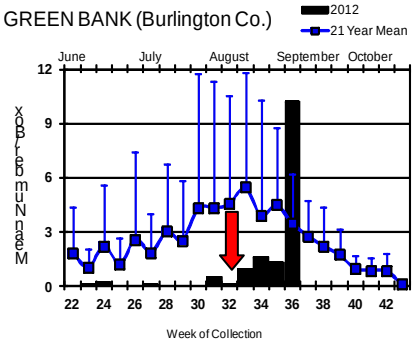
Species other than *Cs. melanura*	Pools	Mosquitoes	Positives	MFIR
Aedes albopictus	8	40		
Aedes canadensis canadensis	9	242		
Aedes cantator	36	472		
Aedes japonicus	18	72		
Aedes mitchellae	4	60		
Aedes sollicitans	13	26		
Aedes sticticus	1	8		
Aedes triseriatus	4	4		
Aedes trivittatus	1	2		
Aedes vexans	7	83		
Anopheles bradleyi	40	218		
Anopheles crucians	5	39		
Anopheles punctipennis	21	108		
Anopheles quadrimaculatus	21	128		
Coquillettidia perturbans	68	1629		
Culex erraticus	188	6802		
Culex pipiens	597	5742		
Culex restuans	13	67		
Culex salinarius	150	532		
Culex sp.	145	4464		
Psorophora columbiae	2	6		
State Total	**1351**	**20744**		

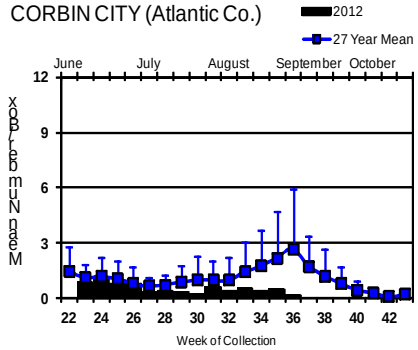
The table to the left indicates non-*Cs. melanura* mosquitoes tested for EEE. An additional 20 species of mosquitoes have been tested with no detection of EEE.

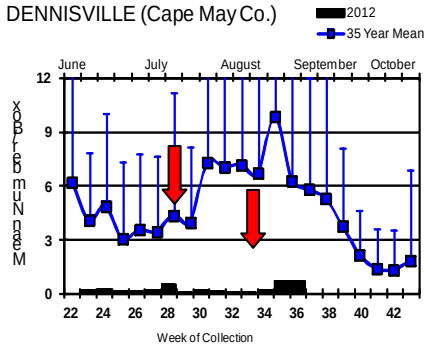
Culiseta melanura Population Graphs

Coastal

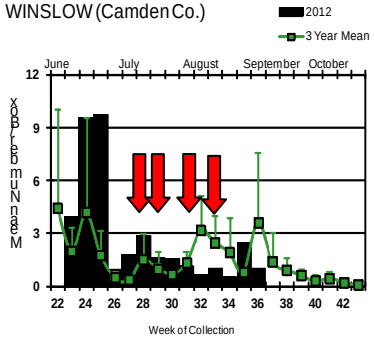


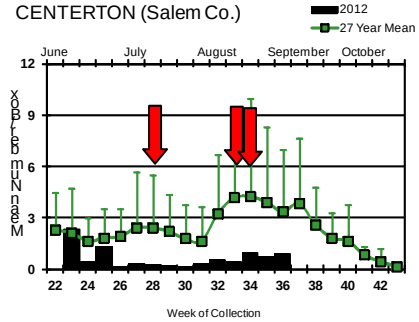


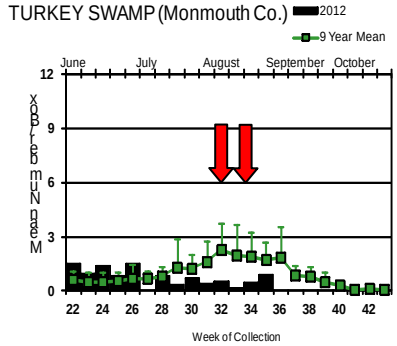


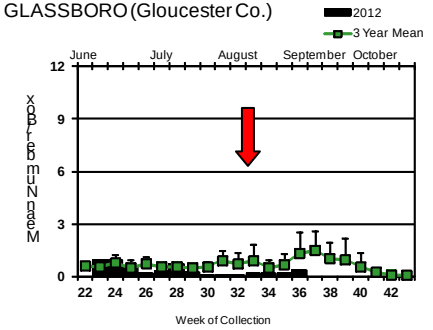


Inland









Populations of *Culiseta melanura* exploded at the Green Bank site with numbers that had not been seen since 2009. Increases were also seen at the new Bass River site and at Turkey Swamp while elsewhere, populations remained similar or lower to the previous week.

= Positive pool(s) detected.

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

- equine: 7(AL) 19(FL) 6(GA) 27(LA) 2(MA) 1(MI) 26(MS) 11(NC) 4(NJ) 2(NY) 11(SC) 2(WI)
- mosquito pools: 3(CT) 1(LA) 152(MA) 2(NH) 26(NJ) 2(RI) 137(VA) 7(VT)
- sentinel: 1(AL) 1(DE) 41(FL) 2 wild(ME) 3(NC) 33(VA)
- human: 1(FL) 2(MA) 1(VA) 2(VT)

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	15		11/13	3	13/16
Alaska					
Arizona	1	96	2	1	25
Arkansas					31/35
California	954/1086	1890/2080	217/276	9/10	56/75
Colorado		86/177		8	22/33
Connecticut		205/215		0	6
Delaware	10/11		2/3		1
DC					1
Florida	0		106/124	1	19/28
Georgia	0	79	0	3	29
Hawaii					
Idaho		23/35		3/5	4/8
Illinois	82/87	3104/3395		2/3	60/83
Indiana	2	518/621		17/18	26/36
Iowa		3	6/8	4/5	5/10
Kansas		1			15/24
Kentucky				8/9	1/3
Louisiana		2165/2323	69/90	27	121/145
Maine		4			
Maryland		5/7			15/21
Mass.		189/224		1/2	8/13
Michigan	19/21	16		2	95/129
Minnesota	20/26	51/58		8	43/48
Mississippi		55		8	114/140
Missouri		96/119		5	7/10

	Birds	Mosquito Pools	Sentinels	Horses	Humans
Montana		2/8		1	1
Nebraska	8	158/190			29/40
Nevada		2		1	
New Hampshire		38/40		0	1
New Jersey	72/84	761/834		2	8/15
New Mexico		16/20		6/9	7/17
New York		830/878			25/34
North Carolina				1	3/5
North Dakota	2	0		12	36/54
Ohio		960/1045		1/4	43/53
Oklahoma	1	29		2	118/123
Oregon	1	58	0	1	2
Pennsylvania	95/107	2716/3004		16/18*	16/18
Rhode Island		2/3		0	0
South Carolina	13	1		3	9/11
South Dakota	1/2	62/68		8	98/119
Tennessee	2	702		1	10/18
Texas	118/130	1108/1233		22/36	981/1066
Utah		8/14	1	0	2/3
Vermont		1		0	0
Virginia		208	19		5
Washington	0	5		1	2
West Virginia		156			2/3
Wisconsin	21/26	0		0	1/13
Wyoming	3	13		1/3	4

* 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 10 September 2012

Species	Pools	Mosquitoes	Positives	MFIR
Aedes albopictus	1005	7959	5	0.628
Aedes atlanticus	10	14		
Aedes atropalpus	2	7		
Aedes canadensis canadensis	64	1565		
Aedes cantator	70	881		
Aedes grossbecki	2	2		
Aedes japonicus	430	2366	6	2.536
Aedes mitchellae	4	60		
Aedes sollicitans	17	38		
Aedes sticticus	7	124		
Aedes taeniorhynchus	22	208		
Aedes triseriatus	234	537		
Aedes trivittatus	6	10		
Aedes vexans	83	609	1	1.642
Anopheles bradleyi	64	534		
Anopheles crucians	8	45		
Anopheles punctipennis	90	357	1	2.801
Anopheles quadrimaculatus	117	443	1	2.257
Coquillettidia perturbans	88	1868		
Culex erraticus	208	7035		
Culex pipiens	1258	29354	114	3.884
Culex restuans	322	1700	1	0.588
Culex salinarius	188	801	1	1.248
Culex sp.	3000	111204	695	6.250
Culex territans	37	59		
Culiseta melanura	482	9719	9	0.926
Culiseta minnesotae	1	2		
Orthopodomyia signifera	13	13		
Psorophora ciliata	1	1		
Psorophora columbiae	14	165		
Psorophora ferox	10	59		
Psorophora howardii	1	1		
State Total	**7858**	**177,740**	**834**	**4.692**

Remarks: To date, there have been 177,740 mosquitoes tested in 7,858 pools from 31 species. Currently, 834 positive pools have been detected in *Aedes albopictus, Ae. japonicus, Aedes vexans, Anopheles punctipennis, Anopheles quadrimaculatus, Culex pipiens,* Mixed *Cx.* species, *Culex restuans, Culex salinarius and Culiseta melanura*. Mixed *Culex* pools continued to increase in positive pools from 628 to 695, with MFIR values increasing from 5.931 to 6.250.

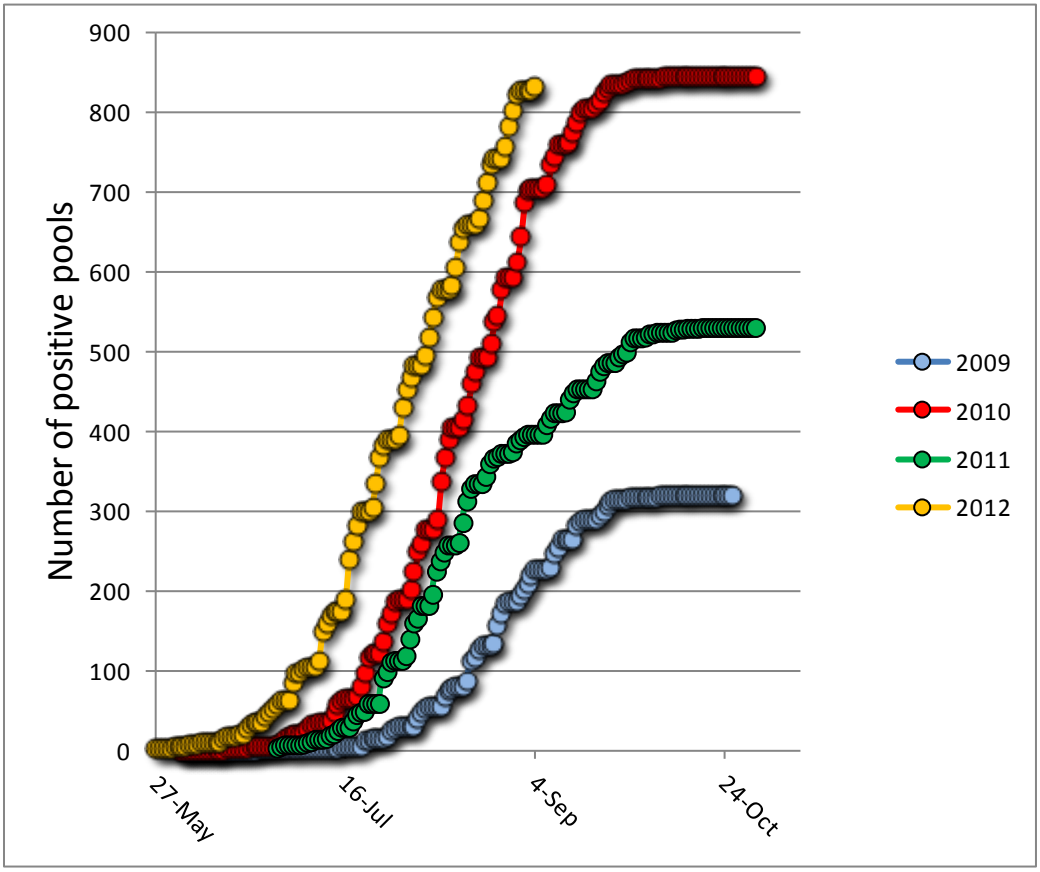
Humans, Horses and Wild Birds: Fifteen human cases have been reported in the following counties: Bergen (1), Burlington (1), Camden (1), Essex (2), Gloucester (1), Hudson (1), Mercer (1), Middlesex (1), Monmouth (1), and Ocean (3), Passaic (1) and Salem (1). See http://www.state.nj.us/health/cd/westnile/techinfo.shtml for further information.

Two positive WNV horses have been reported: 1) A 11 yo quarter horse 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.escrutgers.com/downloads/NJDA_08102012.pdf In the very active year of 2010, the first WNV horse case had an onset date of 17 August. 2) A 25 yo gelding from Monmouth County, onset of symptoms 14 July, was vaccinated and is recovering.

Bird testing began in mid-April. To date, WNV has been detected in eighty-four birds out of 217 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* 40/45), Fish Crow (*Corvus ossifragus* 13/39), unidentified Crow (*Corvus* spp. 11/21), Blue Jay (*Cyanocitta cristata* 16/25), Hawk/Raptor (1/8) and other avian species (3/79). 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
834 / 7858 (0.106)	420 / 5107 (0.082)
2012 Positive Birds to date / Total Birds Submitted	**This time last year**
84 / 217 (0.387)	24 / 85 (0.282)

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



WNV Results by County through 10 September 2012

County	Species	Pools	Mosquitoes	Positives	MFIR
Atlantic		**99**	**2265**	**4**	**1.766**
	Aedes albopictus	14	242		
	Aedes canadensis canadensis	1	2		
	Aedes cantator	1	10		
	Aedes japonicus	7	25		
	Aedes sollicitans	1	9		
	Aedes taeniorhynchus	2	89		
	Aedes triseriatus	3	15		
	Aedes trivittatus	1	2		

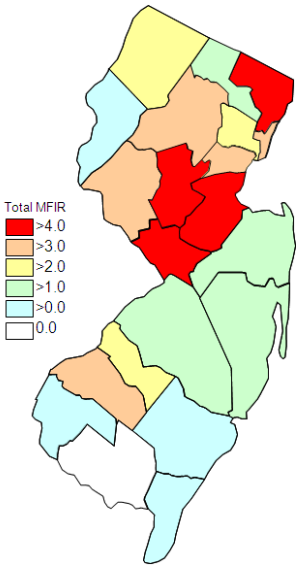
	Aedes vexans	4	82		
	Anopheles bradleyi	2	5		
	Anopheles punctipennis	1	15		
	Coquillettidia perturbans	2	3		
	Culex erraticus	7	71		
	Culex spp.	34	1479	4	2.705
	Culiseta melanura	16	206		
	Psorophora columbiae	1	1		
	Psorophora ferox	1	8		
	Psorophora howardii	1	1		
Bergen		**195**	**11290**	**135**	**11.957**
	Aedes albopictus	2	43	1	23.256
	Aedes japonicus	3	13	2	153.846
	Aedes triseriatus	1	1		
	Aedes vexans	1	4		
	Anopheles punctipennis	1	1		
	Anopheles quadrimaculatus	1	1	1	1000.000
	Culex salinarius	1	3	1	333.333
	Culex spp.	185	11224	130	11.582
Burlington		**390**	**12804**	**29**	**2.265**
	Aedes albopictus	14	219		
	Aedes atropalpus	1	2		
	Aedes canadensis canadensis	6	214		
	Aedes cantator	2	30		
	Aedes japonicus	21	115	1	8.696
	Aedes mitchellae	4	60		
	Aedes sticticus	1	8		
	Aedes triseriatus	5	53		
	Aedes trivittatus	1	2		
	Aedes vexans	6	88		
	Anopheles bradleyi	3	80		
	Anopheles crucians	3	37		
	Anopheles punctipennis	3	14		
	Anopheles quadrimaculatus	3	11		
	Coquillettidia perturbans	25	983		
	Culex erraticus	7	87		
	Culex pipiens	6	222		
	Culex restuans	3	55		
	Culex salinarius	10	182		
	Culex spp.	165	6249	24	3.841
	Culiseta melanura	100	4088	4	0.978
	Psorophora columbiae	1	5		
Camden		**230**	**7685**	**45**	**5.856**
	Aedes albopictus	26	141	1	7.092
	Aedes japonicus	17	33	1	30.303
	Aedes triseriatus	2	6		
	Aedes trivittatus	1	2		
	Anopheles punctipennis	1	2		
	Culex spp.	138	5578	42	7.530
	Culiseta melanura	45	1923	1	0.520
Cape May		**2626**	**21659**	**12**	**0.554**
	Aedes albopictus	503	1406		

	Aedes atlanticus	6	9		
	Aedes atropalpus	1	5		
	Aedes canadensis canadensis	8	73		
	Aedes cantator	44	459		
	Aedes japonicus	102	154		
	Aedes sollicitans	14	27		
	Aedes taeniorhynchus	19	118		
	Aedes triseriatus	136	211		
	Aedes vexans	19	50		
	Anopheles bradleyi	43	221		
	Anopheles punctipennis	18	22		
	Anopheles quadrimaculatus	80	280		
	Coquillettidia perturbans	6	25		
	Culex erraticus	167	6530		
	Culex pipiens	774	9761	12	1.229
	Culex restuans	280	835		
	Culex salinarius	154	422		
	Culex spp.	76	283		
	Culex territans	34	56		
	Culiseta melanura	125	694		
	Orthopodomyia signifera	13	13		
	Psorophora columbiae	4	5		
Cumberland		**157**	**1599**		
	Aedes albopictus	16	59		
	Aedes atlanticus	3	3		
	Aedes canadensis canadensis	4	25		
	Aedes cantator	3	11		
	Aedes japonicus	13	32		
	Aedes triseriatus	8	16		
	Aedes vexans	3	9		
	Anopheles crucians	4	158		
	Anopheles bradleyi	4	7		
	Anopheles punctipennis	8	16		
	Anopheles quadrimaculatus	2	2		
	Coquillettidia perturbans	6	89		
	Culex erraticus	9	133		
	Culex pipiens	18	345		
	Culex restuans	10	88		
	Culex salinarius	10	148		
	Culex spp.	6	25		
	Culex territans	3	3		
	Culiseta melanura	22	304		
	Psorophora columbiae	2	104		
	Psorophora ferox	3	22		
Essex		**365**	**6001**	**28**	**4.666**
	Aedes albopictus	52	374		
	Aedes canadensis canadensis	2	2		
	Aedes grossbecki	2	2		
	Aedes japonicus	40	394	1	2.538
	Aedes sticticus	5	113		
	Aedes triseriatus	9	22		
	Aedes vexans	16	220		
	Culex spp.	238	4870	27	5.544
	Psorophora ferox	1	4		

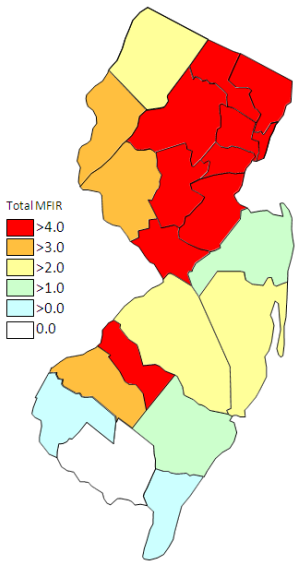
Gloucester		**483**	**16124**	**54**	**3.349**
	Aedes albopictus	26	859		
	Aedes japonicus	6	127		
	Aedes triseriatus	1	7		
	Aedes vexans	2	4		
	Anopheles punctipennis	17	112		
	Anopheles quadrimaculatus	18	118		
	Coquillettidia perturbans	1	2		
	Culex pipiens	316	13584	51	3.754
	Culiseta melanura	96	1311	3	2.288
Hudson		**204**	**12313**	**73**	**5.929**
	Culex spp.	204	12313	73	5.929
Hunterdon		**243**	**11328**	**44**	**3.884**
	Culex spp.	243	11328	44	3.884
Mercer		**262**	**7122**	**55**	**7.723**
	Aedes albopictus	62	683		
	Aedes japonicus	32	177		
	Aedes triseriatus	5	11		
	Aedes vexans	1	3		
	Culex erraticus	1	7		
	Culex pipiens	135	5356	51	9.522
	Culex restuans	20	520	1	1.923
	Culex spp.	6	365	3	8.219
Middlesex		**242**	**8732**	**76**	**8.704**
	Aedes albopictus	17	201		
	Aedes japonicus	15	120		
	Aedes triseriatus	3	14		
	Culex spp.	207	8397	76	9.051
Monmouth		**298**	**4200**	**8**	**1.905**
	Aedes albopictus	52	293	1	3.413
	Aedes canadensis canadensis	11	128		
	Aedes cantator	8	43		
	Aedes japonicus	45	164	1	6.098
	Aedes triseriatus	13	18		
	Aedes vexans	6	9		
	Anopheles crucians	1	1		
	Anopheles punctipennis	14	19		
	Anopheles quadrimaculatus	1	1		
	Coquillettidia perturbans	3	4		
	Culex erraticus	7	110		
	Culex pipiens	1	1		
	Culex salinarius	3	14		
	Culex spp.	107	2806	6	2.138
	Culiseta melanura	24	585		
	Psorophora columbiae	1	2		
	Psorophora ferox	1	2		
Morris		**319**	**11816**	**67**	**5.670**
	Aedes albopictus	2	25		

	Aedes japonicus	20	300		
	Aedes triseriatus	3	14		
	Anopheles punctipennis	2	65		
	Coquillettidia perturbans	3	149		
	Culex spp.	289	11263	67	5.949
Ocean		**348**	**6188**	**15**	**2.424**
	Aedes albopictus	94	2340	1	0.427
	Aedes atlanticus	1	2		
	Aedes canadensis canadensis	29	1112		
	Aedes cantator	11	327		
	Aedes japonicus	30	134		
	Aedes sollicitans	2	2		
	Aedes taeniorhynchus	1	1		
	Aedes triseriatus	17	38		
	Aedes trivittatus	1	2		
	Aedes vexans	9	35	1	28.571
	Anopheles bradleyi	7	39		
	Anopheles punctipennis	2	2		
	Anopheles quadrimaculatus	1	1		
	Coquillettidia perturbans	19	423		
	Culex restuans	1	1		
	Culex salinarius	9	31		
	Culex spp.	91	1604	13	8.105
	Culiseta melanura	21	92		
	Psorophora ferox	2	2		
Passaic		**158**	**2727**	**11**	**4.034**
	Aedes albopictus	28	127	1	7.874
	Aedes japonicus	34	335		
	Aedes triseriatus	13	29		
	Anopheles punctipennis	4	15		
	Coquillettidia perturbans	1	2		
	Culex spp.	78	2219	10	4.507
Salem		**236**	**2510**	**2**	**0.797**
	Aedes albopictus	36	105		
	Aedes canadensis canadensis	2	6		
	Aedes cantator	1	1		
	Aedes japonicus	8	22		
	Aedes sticticus	1	3		
	Aedes triseriatus	4	4		
	Aedes vexans	10	82		
	Anopheles bradleyi	5	31		
	Anopheles punctipennis	5	7		
	Anopheles quadrimaculatus	7	25		
	Coquillettidia perturbans	20	144		
	Culex erraticus	10	97		
	Culex pipiens	4	26		
	Culex restuans	2	15		
	Culex spp.	86	1366	1	0.732
	Culiseta melanura	26	504	1	1.984
	Culiseta minnesotae	1	2		
	Psorophora ciliata	1	1		
	Psorophora columbiae	5	48		
	Psorophora ferox	2	21		

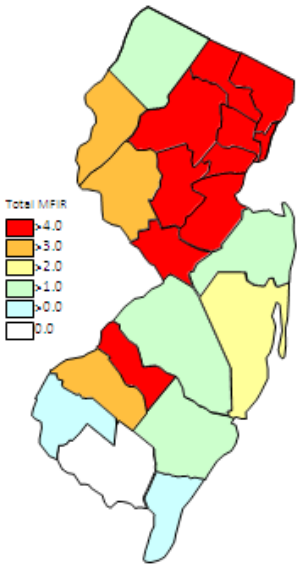
Somerset	**209**	**4090**	**30**	**7.335**
Aedes albopictus	15	96		
Aedes canadensis canadensis	1	3		
Aedes japonicus	17	111		
Aedes triseriatus	3	39		
Aedes vexans	1	8		
Anopheles punctipennis	3	22	1	45.455
Culex spp.	169	3811	29	7.610
Sussex	**248**	**7747**	**21**	**2.711**
Coquillettidia perturbans	1	43		
Culex pipiens	4	59		
Culex restuans	6	186		
Culex salinarius	1	1		
Culex spp.	229	7446	21	2.820
Culiseta melanura	7	12		
Union	**274**	**13129**	**105**	**7.998**
Aedes albopictus	44	693		
Aedes japonicus	4	54		
Aedes triseriatus	1	15		
Culex spp.	225	12367	105	8.490
Warren	**272**	**6411**	**20**	**3.120**
Aedes albopictus	2	53		
Aedes japonicus	16	56		
Aedes triseriatus	7	24		
Aedes trivittatus	2	2		
Aedes vexans	5	15		
Anopheles punctipennis	11	45		
Anopheles quadrimaculatus	4	4		
Coquillettidia perturbans	1	1		
Culex spp.	224	6211	20	3.220
Grand Total	**7858**	**177740**	**834**	**4.692**



Cumulative WNV activity in 2011.



WNV activity to 10 Sept 2012.



WNV activity last week, 2012.

Saint Louis Encephalitis (SLE) through 10 September 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		**267**	**9122**		
	Aedes albopictus	5	32		
	Aedes canadensis canadensis	6	214		
	Aedes cantator	2	30		
	Aedes japonicus	18	72		
	Aedes mitchellae	4	60		
	Aedes sticticus	1	8		
	Aedes triseriatus	3	3		
	Aedes trivittatus	1	2		
	Aedes vexans	4	65		
	Anopheles bradleyi	1	4		
	Anopheles crucians	3	37		
	Anopheles punctipennis	2	13		
	Anopheles quadrimaculatus	3	11		
	Coquillettidia perturbans	20	892		
	Culex erraticus	3	71		
	Culex pipiens	6	222		
	Culex restuans	3	55		
	Culex salinarius	10	182		
	Culex spp.	116	4597		
	Culiseta melanura	55	2547		
	Psorophora columbiae	1	5		
Camden		**75**	**2601**		
	Aedes albopictus	7	31		
	Aedes japonicus	4	6		
	Aedes triseriatus	1	5		
	Anopheles punctipennis	1	2		
	Culex spp.	62	2557		
Essex		**200**	**3900**		
	Aedes albopictus	23	48		
	Aedes canadensis canadensis	2	2		
	Aedes grossbecki	2	2		
	Aedes japonicus	30	251		
	Aedes sticticus	5	113		
	Aedes triseriatus	9	22		
	Aedes vexans	16	220		
	Culex spp.	112	3238		
	Psorophora ferox	1	4		
Hudson		**74**	**4966**		
	Culex spp.	74	4966		

Grand Total		**616**	**20589**		

La Crosse Encephalitis (LAC) through 10 September 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
Burlington		**1**	**39**		
	Aedes triseriatus	1	39		
Cape May		**107**	**170**		
	Aedes triseriatus	104	165		
	Culex spp.	1	2		
	Orthopodomyia signifera	1	1		
	Psorophora columbiae	1	2		
Cumberland		**8**	**16**		
	Aedes triseriatus	8	16		
Salem		**1**	**1**		
	Aedes triseriatus	1	1		
Union		**1**	**15**		
	Aedes triseriatus	1	15		
Grand Total		**118**	**241**		