VECTOR SURVEILLANCE IN NEW JERSEY

EEE, WNV, SLE and LAC

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CDC WEEK 37: September 9 to September 15, 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	1.10	(45) 34	(7) 6		
Green Bank (Burlington Co.)/25	**Coastal**	2.75	0.80	(391) 371	(13) 12	1	2.70
Corbin City (Atlantic Co.)/25	**Coastal**	1.74	0.32	(189) 181	(15) 14		
Dennisville (Cape May Co.)/50	**Coastal**	5.27	0.08	178	15	2	11.24
Winslow (Camden Co.)/50	**Inland**	1.39	0.28	1937	46	8	4.13
Centerton (Salem Co.)/50	**Inland**	3.84	0.30	494	18	3	6.07
Turkey Swamp (Monmouth Co.)/48	**Inland**	0.85	0.75	(640) 604	(20) 19	2	3.31
Glassboro (Gloucester Co.)/50	**Inland**	1.51	0.16	199	15	1	5.03

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

Remarks: No new detections of EEE in either *Cs. melanura* or any other species has occurred this past week.

To date 3998 *Cs. melanura* from 145 pools have been tested from the traditional resting box sites, with four additional pools in the system to be tested. Seventeen positive pools have been detected at these sites, for an MFIR of 4.25. 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 1.48 (see below). Overall *Cs. melanura* MFIR value for the state is 2.58. All positive pools remain in *Culiseta melanura*.

Three hundred thirty-five additional pools containing 6061 *Cs. melanura* have been tested from other sites using other traps in addition to resting boxes. No new positive pools were detected. 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	516 (112)		
Cumberland	CO_2, Gravid, RB	270 (21)		
Gloucester	CO_2, **RB**	1200 (88)	6	5.36
Monmouth	Gravid	9 (2)		
Ocean	**CO_2**, Gravid, RB	92 (21)	1	10.87
Salem	CO_2	3 (3)		
TOTAL		**6061 (335)**	**9**	1.51

Horses and Humans: Two additional equine cases have been reported in Camden County, both 2 yo colts with date of onset 9 Sep, and both euthanized on 10 Sep. with no vaccination or travel history. To date, six EEE positive horses have been identified, including with the above: 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.

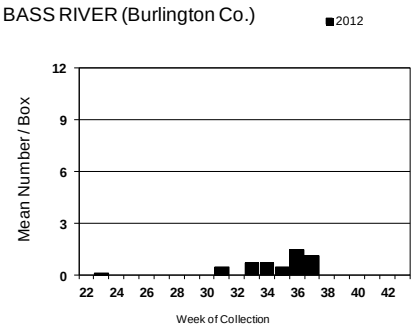
Horses and Vaccinations: The fate of unvaccinated equids reinforces the necessity of maintaining a vaccination schedule for arboviruses. For vaccination schedules recommended by the American Association of Equine Practices, see: http://www.aaep.org/vaccination_guidelines.htm

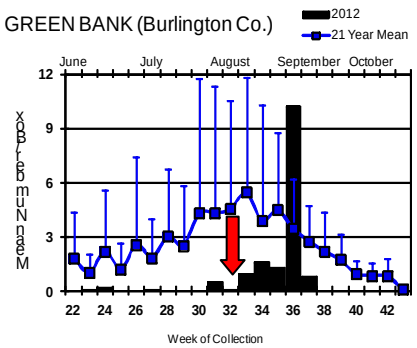
Species other than *Cs. melanura*	Pools	Mosquitoes	Positives	MFIR
Aedes albopictus	8	40		
Aedes canadensis canadensis	10	243		
Aedes cantator	36	472		
Aedes japonicus	18	72		
Aedes mitchellae	4	60		
Aedes sollicitans	18	157		
Aedes sticticus	1	8		
Aedes triseriatus	4	4		
Aedes trivittatus	1	2		
Aedes vexans	7	83		
Anopheles bradleyi	49	325		
Anopheles crucians	5	39		
Anopheles punctipennis	25	120		
Anopheles quadrimaculatus	22	135		
Coquillettidia perturbans	69	1636		
Culex erraticus	203	7069		
Culex pipiens	624	5923		
Culex restuans	13	67		
Culex salinarius	166	746		
Culex sp.	146	4467		
Psorophora columbiae	2	6		
State Total	**1431**	**21674**		

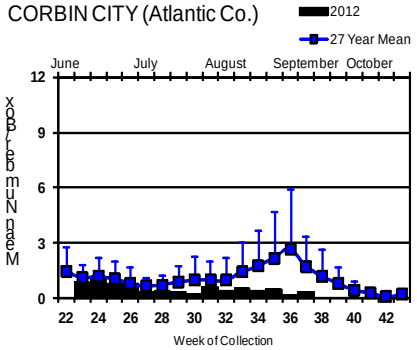
The table to the left indicates non-*Cs. melanura* mosquitoes tested for EEE. An additional 20 species of mosquitoes have been tested with no detection of EEE.

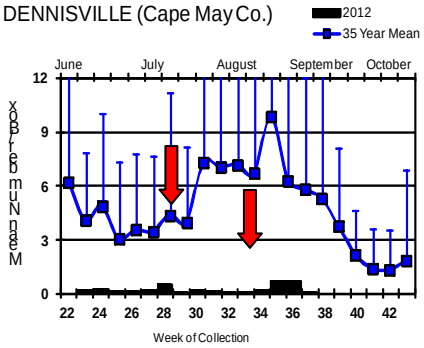
Culiseta melanura Population Graphs

Coastal

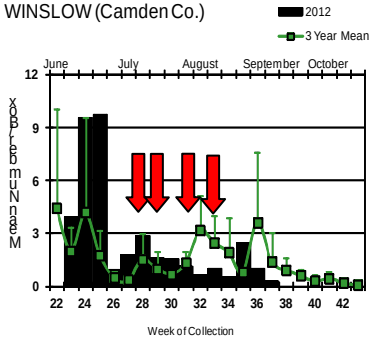


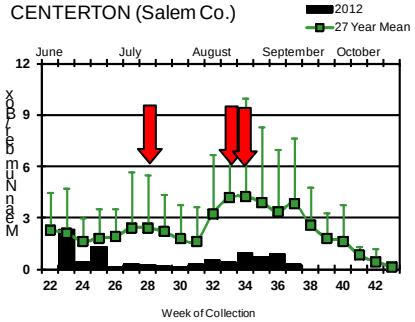


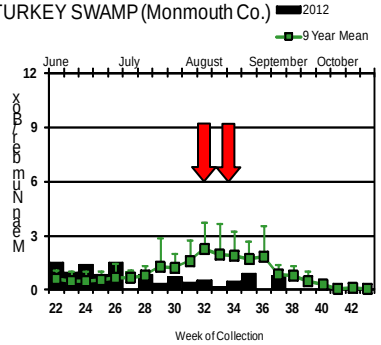


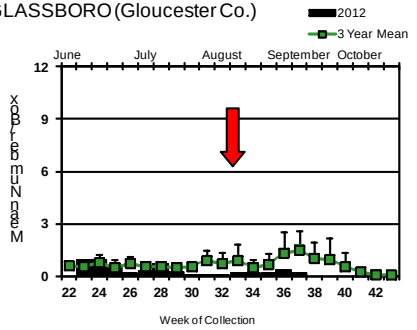


Inland









Populations of *Culiseta melanura* in Green Bank resumed their generally low numbers of two weeks ago. Population abundances at most sites continue to be lower than historical levels, with the exception of Turkey Swamp. Winslow, Corbin City and Dennisville are likely within the error bars of historical means.

= Positive pool(s) detected.

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

- equine: 7(AL) 20(FL) 8(GA) 44(LA) 2(MA) 1(MI) 26(MS) 11(NC) 6(NJ) 2(NY) 12(SC) 2(WI)
- mosquito pools: 5(CT) 2(LA) 252(MA) 3(NH) 26(NJ) 3(RI) 137(VA) 7(VT)
- sentinel: 1(AL) 1(DE) 41(FL) 1[2 wild](ME) 3(NC) 33(VA)
- human: 1(FL) 4(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		13	3	16/18
Alaska					
Arizona	1	96/104	2	1	25/37
Arkansas					35/39
California	1086/1205	2080/2282	276/321	10/11	75/114
Colorado		177/201		8	33/51
Connecticut		215/226		0	6/14
Delaware	11/17		3/9	0	1/6
DC					1/2
Florida	0	2	124/168	1/2	28/33
Georgia	0	79/97	0	3/4	29/42
Hawaii					
Idaho	1	35		5/7	8/11
Illinois	87/88	3395/3652		3/5	83/95
Indiana	2	621/652		18	36/45
Iowa		3	8/11	5/12	10/12
Kansas		1/2			24/25
Kentucky				9/11	1/3
Louisiana		2323/2393	90/104	27/42	145/215
Maine		4/7			1
Maryland		7			21/25
Mass.		224/233		2	13/14
Michigan	21/25	16		2	129/155
Minnesota	20/26	58/72		8	48/52
Mississippi		55		8/10	140/169
Missouri		119		5/6	10/13

	Birds	Mosquito Pools	Sentinels	Horses	Humans
Montana		2/8		1	1
Nebraska	8/11	190/217		2	40/55
Nevada		2		1	1
New Hampshire		40		0	1
New Jersey	84/104	834/906		2	15/22
New Mexico	1	20		9	17/27
New York		878/931			34/52
North Carolina				1	5
North Dakota	2	0		12/13	54/70
Ohio		1045/1125		4/6	43/53
Oklahoma	1	29/30		2/3	123/133
Oregon	1	58	0	1	2
Pennsylvania	107/119	3004/3231		18/27*	18/20
Rhode Island		3/4		0	0
South Carolina	13/14	1		3	11/28
South Dakota	2/3	68/77		8/9	119/144
Tennessee	2	702		1	18/21
Texas	130/150	1233/1278		36/41	1066/1219
Utah		14/16	1	0	3
Vermont		1		0	1
Virginia		208	19		5/9
Washington	0	5		1	2/4
West Virginia		156/183			3
Wisconsin	26	0		1	13/19
Wyoming	3	13		3/4	4/6

* 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 17 September 2012

Species	Pools	Mosquitoes	Positives	MFIR
Aedes albopictus	1112	8675	5	0.576
Aedes atlanticus	10	14		
Aedes atropalpus	5	14		
Aedes canadensis canadensis	66	1571		
Aedes cantator	71	882		
Aedes grossbecki	2	2		
Aedes japonicus	459	2484	6	2.415
Aedes mitchellae	4	60		
Aedes sollicitans	22	169		
Aedes sticticus	7	124		
Aedes taeniorhynchus	34	438		
Aedes triseriatus	244	599		
Aedes trivittatus	6	10		
Aedes vexans	94	647	1	1.546
Anopheles bradleyi	73	641		
Anopheles crucians	8	45		
Anopheles punctipennis	99	374	1	2.674
Anopheles quadrimaculatus	124	486	1	2.058
Coquillettidia perturbans	89	1875		
Culex erraticus	226	7316		
Culex pipiens	1329	30414	127	4.176
Culex restuans	334	1720	1	0.581
Culex salinarius	207	1018	1	0.982
Culex sp.	3199	116027	754	6.498
Culex territans	40	62		
Culiseta melanura	511	10174	9	0.885
Culiseta minnesotae	1	2		
Orthopodomyia signifera	14	14		
Psorophora ciliata	1	1		
Psorophora columbiae	16	167		
Psorophora ferox	12	67		
Psorophora howardii	1	1		
State Total	**8422**	**186,095**	**906**	**4.868**

Remarks: To date, there have been 186,095 mosquitoes tested in 8,422 pools from 31 species. Currently, 906 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 695 to 754, with MFIR values increasing from 6.250 to 6.498.

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

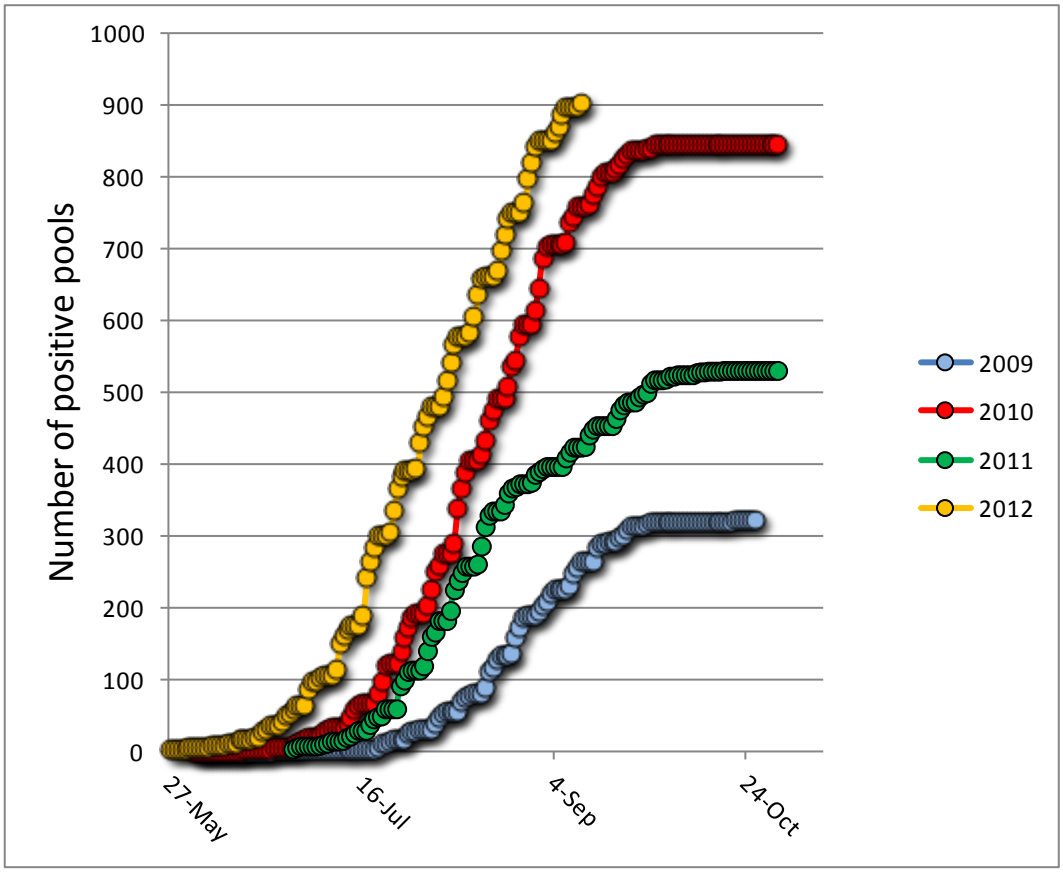
Two positive WNV horses have been reported to date: 1) A 11 yo quarter horse from Salem County, with onset of symptoms on 4th August. The horse was put down the same day. Generally horses have either an unknown or no vaccination history, but this horse was reported as vaccinated. See http://www.escrutgers.com/downloads/NJDA_08102012.pdf 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 104 birds out of 248 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* 48/53), Fish Crow (*Corvus ossifragus* 13/40), unidentified Crow (*Corvus* spp. 13/23), Blue Jay (*Cyanocitta cristata* 25/35), Hawk/Raptor (1/8) and other avian species (4/89). 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
906 / 8422 (0.108)	449 / 5547 (0.081)
2012 Positive Birds to date / Total Birds Submitted	**This time last year**
104 / 248 (0.420)	27 / 93 (0.290)

Activity, as seen by plotting cumulative positive pools (graph below) has now gone above 2010 levels. It should be noted that testing began earlier this year.



WNV Results by County through 17 September 2012

County	Species	Pools	Mosquitoes	Positives	MFIR
Atlantic		**106**	**2321**	**5**	**2.154**
	Aedes albopictus	15	259		
	Aedes canadensis canadensis	1	2		
	Aedes cantator	1	10		
	Aedes japonicus	8	32		

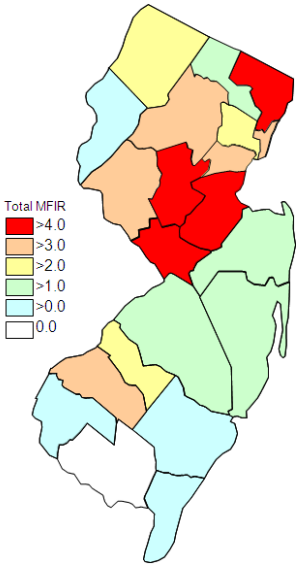
	Aedes sollicitans	1	9		
	Aedes taeniorhynchus	2	89		
	Aedes triseriatus	3	15		
	Aedes trivittatus	1	2		
	Aedes vexans	5	83		
	Anopheles bradleyi	2	5		
	Anopheles punctipennis	2	16		
	Anopheles quadrimaculatus	1	2		
	Coquillettidia perturbans	2	3		
	Culex erraticus	7	71		
	Culex spp.	35	1500	5	3.333
	Culiseta melanura	16	206		
	Psorophora columbiae	1	1		
	Psorophora ferox	2	15		
	Psorophora howardii	1	1		
Bergen		**207**	**11615**	**144**	**12.398**
	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.	197	11549	139	12.036
Burlington		**104**	**13177**	**29**	**2.125**
	Aedes albopictus	18	275		
	Aedes atropalpus	1	2		
	Aedes canadensis canadensis	6	214		
	Aedes cantator	2	30		
	Aedes japonicus	23	120	1	8.333
	Aedes mitchellae	4	60		
	Aedes sticticus	1	8		
	Aedes triseriatus	5	53		
	Aedes trivittatus	1	2		
	Aedes vexans	6	88		
	Anopheles bradleyi	4	81		
	Anopheles crucians	3	37		
	Anopheles punctipennis	3	14		
	Anopheles quadrimaculatus	3	11		
	Coquillettidia perturbans	25	983		
	Culex erraticus	8	92		
	Culex pipiens	6	222		
	Culex restuans	3	55		
	Culex salinarius	10	182		
	Culex spp.	170	6285	24	3.819
	Culiseta melanura	105	4358	4	0.918
	Psorophora columbiae	1	5		
Camden		**245**	**7868**	**46**	**5.846**
	Aedes albopictus	31	148	1	6.757
	Aedes japonicus	20	38	1	26.316
	Aedes triseriatus	2	6		
	Aedes trivittatus	1	2		
	Anopheles punctipennis	1	2		

	Culex spp.	144	5735	43	7.498
	Culiseta melanura	46	1937	1	0.516
Cape May		**2828**	**23170**	**15**	**0.647**
	Aedes albopictus	551	1549		
	Aedes atlanticus	6	9		
	Aedes atropalpus	4	12		
	Aedes canadensis canadensis	9	78		
	Aedes cantator	45	460		
	Aedes japonicus	110	163		
	Aedes sollicitans	19	158		
	Aedes taeniorhynchus	31	348		
	Aedes triseriatus	145	272		
	Aedes vexans	24	65		
	Anopheles bradleyi	51	327		
	Anopheles punctipennis	20	24		
	Anopheles quadrimaculatus	85	314		
	Coquillettidia perturbans	6	25		
	Culex erraticus	180	6780		
	Culex pipiens	809	10014	15	1.498
	Culex restuans	292	855		
	Culex salinarius	170	636		
	Culex spp.	77	286		
	Culex territans	36	58		
	Culiseta melanura	136	714		
	Orthopodomyia signifera	14	14		
	Psorophora columbiae	5	6		
	Psorophora ferox	1	1		
	Uranotaenia sapphirina	2	2		
Cumberland		**169**	**1642**		
	Aedes albopictus	19	70		
	Aedes atlanticus	3	3		
	Aedes canadensis canadensis	4	25		
	Aedes cantator	3	11		
	Aedes japonicus	14	33		
	Aedes triseriatus	8	16		
	Aedes vexans	5	17		
	Anopheles crucians	4	158		
	Anopheles bradleyi	4	7		
	Anopheles punctipennis	8	16		
	Anopheles quadrimaculatus	2	2		
	Coquillettidia perturbans	6	89		
	Culex erraticus	11	150		
	Culex pipiens	20	349		
	Culex restuans	10	88		
	Culex salinarius	12	150		
	Culex spp.	6	25		
	Culex territans	3	3		
	Culiseta melanura	22	304		
	Psorophora columbiae	2	104		
	Psorophora ferox	3	22		
Essex		**385**	**6121**	**28**	**4.574**
	Aedes albopictus	57	420		
	Aedes canadensis canadensis	2	2		

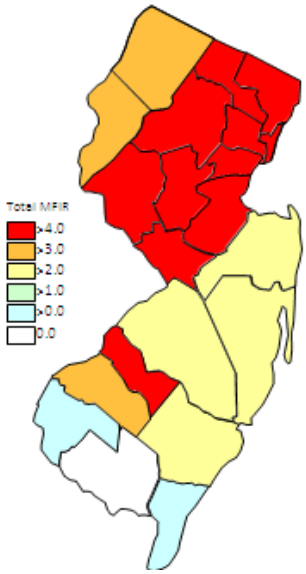
	Aedes grossbecki	2	2		
	Aedes japonicus	43	411	1	2.433
	Aedes sticticus	5	113		
	Aedes triseriatus	9	22		
	Aedes vexans	16	220		
	Culex spp.	250	4927	27	5.480
	Psorophora ferox	1	4		
Gloucester		**513**	**16519**	**55**	**3.329**
	Aedes albopictus	29	924		
	Aedes japonicus	6	127		
	Aedes triseriatus	1	7		
	Aedes vexans	3	12		
	Anopheles punctipennis	20	123		
	Anopheles quadrimaculatus	19	125		
	Coquillettidia perturbans	1	2		
	Culex pipiens	330	13797	52	3.769
	Culiseta melanura	104	1402	3	2.140
Hudson		**218**	**12737**	**75**	**5.888**
	Culex spp.	218	12737	75	5.888
Hunterdon		**264**	**12111**	**75**	**4.211**
	Culex spp.	264	12111	75	4.211
Mercer		**297**	**7908**	**65**	**8.220**
	Aedes albopictus	75	851		
	Aedes japonicus	33	186		
	Aedes triseriatus	5	11		
	Aedes vexans	1	3		
	Culex erraticus	1	7		
	Culex pipiens	155	5946	60	10.091
	Culex restuans	20	520	1	1.923
	Culex spp.	7	384	4	10.417
Middlesex		**256**	**9466**	**82**	**8.663**
	Aedes albopictus	17	201		
	Aedes japonicus	15	120		
	Aedes triseriatus	3	14		
	Culex spp.	221	9131	82	8.980
Monmouth		**328**	**4334**	**10**	**2.307**
	Aedes albopictus	61	321	1	3.115
	Aedes canadensis canadensis	12	129		
	Aedes cantator	8	43		
	Aedes japonicus	47	167	1	5.988
	Aedes triseriatus	14	19		
	Aedes vexans	6	9		
	Anopheles crucians	1	1		
	Anopheles punctipennis	17	22		
	Anopheles quadrimaculatus	1	1		
	Coquillettidia perturbans	3	4		
	Culex erraticus	8	118		
	Culex pipiens	1	1		
	Culex salinarius	3	14		

	Culex spp.	116	2851	8	2.806
	Culex territans	1	1		
	Culiseta melanura	26	628		
	Psorophora columbiae	2	3		
	Psorophora ferox	1	2		
Morris		**353**	**12291**	**73**	**5.939**
	Aedes albopictus	2	25		
	Aedes japonicus	23	322		
	Aedes triseriatus	3	14		
	Anopheles punctipennis	2	65		
	Coquillettidia perturbans	3	149		
	Culex spp.	320	11716	73	6.231
Ocean		**360**	**6272**	**15**	**2.392**
	Aedes albopictus	98	2400	1	0.417
	Aedes atlanticus	1	2		
	Aedes canadensis canadensis	29	1112		
	Aedes cantator	11	327		
	Aedes japonicus	31	137		
	Aedes sollicitans	2	2		
	Aedes taeniorhynchus	1	1		
	Aedes triseriatus	17	38		
	Aedes trivittatus	1	2		
	Aedes vexans	11	41	1	24.390
	Anopheles bradleyi	7	39		
	Anopheles punctipennis	2	2		
	Anopheles quadrimaculatus	1	1		
	Coquillettidia perturbans	20	430		
	Culex erraticus	1	1		
	Culex restuans	1	1		
	Culex salinarius	10	32		
	Culex spp.	93	1610	13	8.075
	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		**241**	**2535**	**2**	**0.789**
	Aedes albopictus	38	110		
	Aedes canadensis canadensis	2	6		
	Aedes cantator	1	1		
	Aedes japonicus	9	23		
	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		

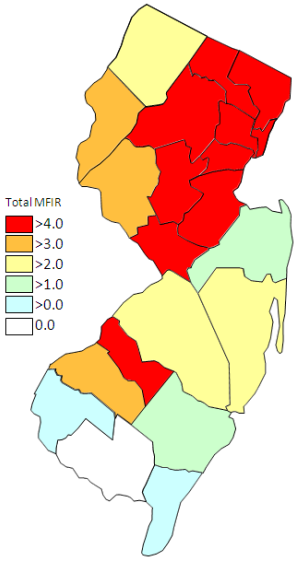
	Culex erraticus	10	97		
	Culex pipiens	4	26		
	Culex restuans	2	15		
	Culex spp.	87	1370	1	0.730
	Culiseta melanura	27	519	1	1.927
	Culiseta minnesotae	1	2		
	Psorophora ciliata	1	1		
	Psorophora columbiae	5	48		
	Psorophora ferox	2	21		
Somerset		**234**	**4438**	**37**	**8.337**
	Aedes albopictus	16	102		
	Aedes canadensis canadensis	1	3		
	Aedes japonicus	19	137		
	Aedes triseriatus	3	39		
	Aedes vexans	1	8		
	Anopheles punctipennis	3	22	1	45.455
	Culex spp.	191	4127	36	8.723
Sussex		**272**	**8394**	**29**	**3.455**
	Coquillettidia perturbans	1	43		
	Culex pipiens	4	59		
	Culex restuans	6	186		
	Culex salinarius	1	1		
	Culex spp.	252	8091	29	3.584
	Culiseta melanura	8	14		
Union		**295**	**13756**	**111**	**8.069**
	Aedes albopictus	51	766		
	Aedes japonicus	5	64		
	Aedes triseriatus	1	15		
	Culex spp.	238	12911	111	8.597
Warren		**285**	**6693**	**23**	**3.436**
	Aedes albopictus	4	84		
	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.	235	6462	23	3.559
Grand Total		**8422**	**186095**	**906**	**4.868**



Cumulative WNV activity in 2011.



WNV activity to 17 Sept 2012.



WNV activity last week, 2012.

Saint Louis Encephalitis (SLE) through 17 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 17 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		**116**	**231**		
	Aedes triseriatus	113	226		
	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		**127**	**302**		