

VECTOR SURVEILLANCE IN NEW JERSEY

EEE, WNV, SLE and LAC

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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	6	2		
Green Bank (Burlington Co.)/25	Coastal	4.53	0.04	(20) 19	(5) 4		
Corbin City (Atlantic Co.)/25	Coastal	1.00	0.40	134 [‡]	(10) 9		
Dennisville (Cape May Co.)/50	Coastal	7.14	0.04	91	10	1	10.99
Winslow (Camden Co.)/50	Inland	3.16	0.62	1674	37	6	3.58
Centerton (Salem Co.)/50	Inland	3.22	0.54	333	13	1	3.00
Turkey Swamp (Monmouth Co.)/46	Inland	2.26	0.54	507 [‡]	15		
Glassboro (Gloucester Co.)/50	Inland	0.71	0.04	146 [‡]	10		

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

Remarks: The number of positive pools at the traditional resting box sites remains at 8. No new pools at these sites were detected.

To date 2910 *Cs. melanura* from 100 pools have been tested from the traditional resting box sites, with two additional pools in the system to be tested. Eight positive pools have been detected at these sites, for an MFIR of 2.75. A total of 13 positive pools have been detected in New Jersey, with an additional five positive pools in traps set by individual counties for an MFIR of 1.04 (see below). Overall MFIR value for the state is 1.69. All positive pools have been in *Culiseta melanura*.

Two hundred fifty-six additional pools containing 4788 *Cs. melanura* have been tested from other county trapping sites using other traps in addition to resting boxes. Two additional positive pools, for a total of 5 positive pools were detected this past week. One pool came from Gloucester County, where three previous pools had already been detected and the second pool came from Burlington County. Dissemination of EEE virus throughout southern New Jersey, while remaining yet in the enzootic vector, is apparent.

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	3029 (66)	1	0.33
Cape May	Gravid, RB	394 (78)		
Cumberland	CO ₂ , Gravid, RB	224 (19)		
Gloucester	CO ₂ , RB	982 (72)	4	4.07
Monmouth	Gravid	9 (2)		
Ocean	CO ₂ , Gravid, RB	82 (16)		
Salem	CO ₂	3 (3)		
TOTAL		4788 (256)	5	1.04

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

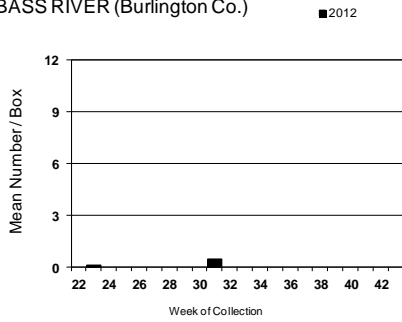
Species other than <i>Cs. melanura</i>	Pools	Mosquitoes	Positives	MFIR
<i>Aedes albopictus</i>	7	35		
<i>Aedes canadensis canadensis</i>	8	239		
<i>Aedes cantator</i>	36	472		
<i>Aedes japonicus</i>	18	72		
<i>Aedes mitchellae</i>	4	60		
<i>Aedes sollicitans</i>	5	17		
<i>Aedes sticticus</i>	1	8		
<i>Aedes triseriatus</i>	4	4		
<i>Aedes trivittatus</i>	1	2		
<i>Aedes vexans</i>	4	65		
<i>Anopheles bradleyi</i>	23	74		
<i>Anopheles crucians</i>	3	37		
<i>Anopheles punctipennis</i>	18	72		
<i>Anopheles quadrimaculatus</i>	17	54		
<i>Coquillettidia perturbans</i>	61	1575		
<i>Culex erraticus</i>	104	3776		
<i>Culex pipiens</i>	391	4286		
<i>Culex restuans</i>	4	56		
<i>Culex salinarius</i>	107	422		
<i>Culex sp.</i>	131	4432		
<i>Psorophora columbiae</i>	1	5		
State Total	948	15763		

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.

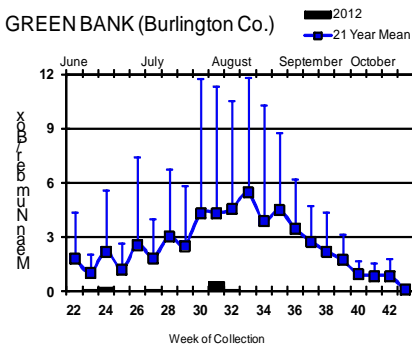
Culiseta melanura Population Graphs

Coastal

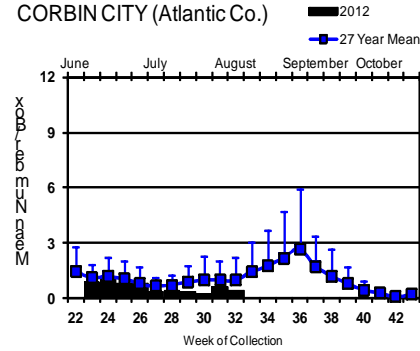
BASS RIVER (Burlington Co.)



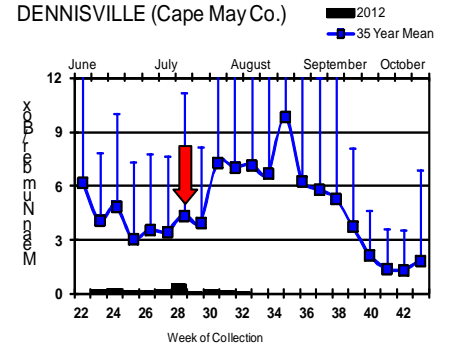
GREEN BANK (Burlington Co.)



CORBIN CITY (Atlantic Co.)

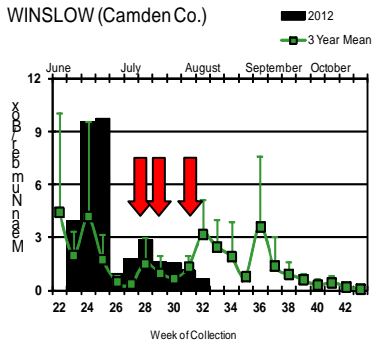


DENNISVILLE (Cape May Co.)

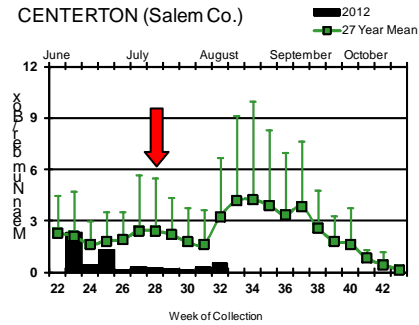


Inland

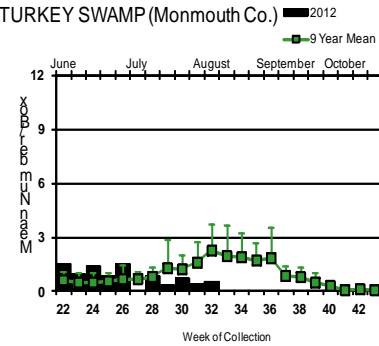
WINSLOW (Camden Co.)



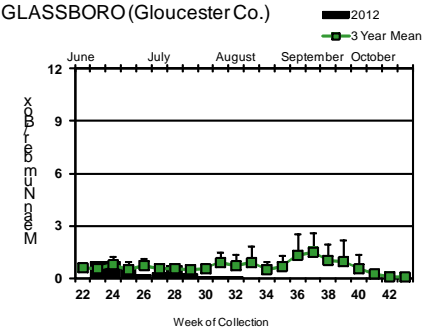
CENTERTON (Salem Co.)



TURKEY SWAMP (Monmouth Co.)



GLASSBORO (Gloucester Co.)



Populations of *Culiseta melanura* at all sites are now at or below historical levels. Detection of virus, however, continues at other sites within the southern portions of the state.

= 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(LA) 66(MA) 13(NJ)
- sentinel: 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					4
Alaska					
Arizona	1	15/17	2	1	4/7
Arkansas					3/6
California	567/648	921/1136	48/76	4	11/18
Colorado		31/35		2/5	2/3
Connecticut		93/135		0	0
Delaware	2/4				
DC					
Florida	0		60/83	0	1/4
Georgia	0	29	0	0	4
Hawaii					
Idaho		6/12		0	1
Illinois	26/35	1175/1691		0	2/6
Indiana	1	226/234		3	2/4
Iowa		0	0	2	3
Kansas					3/8
Kentucky				1	1
Louisiana		1516/1755	53/69	13/16	14/39
Maine					
Maryland		1			
Mass.		51/80		0	0
Michigan	1	1/4		1	7/10
Minnesota	3/5	4/13		1/2	1/7
Mississippi		43/44		1/2	34/59
Missouri		18		1	1/2

	Birds	Mosquito Pools	Sentinels	Horses	Humans
Montana		1/2			
Nebraska	3/5	80/94			3/13
Nevada					
New Hampshire		1/26		0	0
New Jersey	34/43	391/491		1	1
New Mexico				5	2
New York		334/470			1/4
North Carolina					
North Dakota	0	0		2/3	1
Ohio		413/532			1/2
Oklahoma		26		1	14/31
Oregon	1	32	0	0	0
Pennsylvania	41/51	1468/1665		2/3	4
Rhode Island		1/2		0	0
South Carolina	1/4	1		1/2	1/7
South Dakota	1	34/57		2	9/31
Tennessee	0	345/430		0	2
Texas	40/59	667/828		6/10	197/351
Utah		1/5	0	0	1
Vermont				0	0
Virginia					
Washington	0	1/2		0	0
West Virginia		79/93			
Wisconsin	3	0		0	0
Wyoming		9		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 13 August 2012

Species	Pools	Mosquitoes	Positives	MFIR
<i>Aedes albopictus</i>	545	4006	1	0.250
<i>Aedes atlanticus</i>	4	6		
<i>Aedes canadensis canadensis</i>	60	1551		
<i>Aedes cantator</i>	65	874		
<i>Aedes grossbecki</i>	2	2		
<i>Aedes japonicus</i>	336	1857	4	2.154
<i>Aedes mitchellae</i>	4	60		
<i>Aedes sollicitans</i>	9	29		
<i>Aedes sticticus</i>	7	124		
<i>Aedes taeniorhynchus</i>	15	196		
<i>Aedes triseriatus</i>	164	362		
<i>Aedes trivittatus</i>	6	10		
<i>Aedes vexans</i>	61	555		
<i>Anopheles bradleyi</i>	40	370		
<i>Anopheles crucians</i>	3	37		
<i>Anopheles punctipennis</i>	70	283	1	3.534
<i>Anopheles quadrimaculatus</i>	78	243		
<i>Coquillettidia perturbans</i>	78	1811		
<i>Culex erraticus</i>	112	3852		
<i>Culex pipiens</i>	876	23380	70	2.994
<i>Culex restuans</i>	252	1487	1	0.672
<i>Culex salinarius</i>	136	609		
<i>Culex sp.</i>	2242	87981	408	4.637
<i>Culex territans</i>	26	43		0.000
<i>Culiseta melanura</i>	375	7746	6	0.775
<i>Culiseta minnesotae</i>	1	2		
<i>Orthopodomyia signifera</i>	10	10		
<i>Psorophora columbiae</i>	3	30		
<i>Psorophora ferox</i>	8	54		
<i>Psorophora howardii</i>	1	1		
State Total	5589	137571	491	3.569

Remarks: To date, there have been 137,571 mosquitoes tested in 5,589 pools from 29 species. Currently, 491 positive pools have been detected in *Aedes albopictus*, *Ae. japonicus*, *Anopheles punctipennis*, *Culex pipiens*, Mixed Cx. species, *Culex restuans*, and *Culiseta melanura*. Mixed Culex pools continued to increase in positive pools from 332 to 408, with MFIR values increasing from 4.058 to 4.637.

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

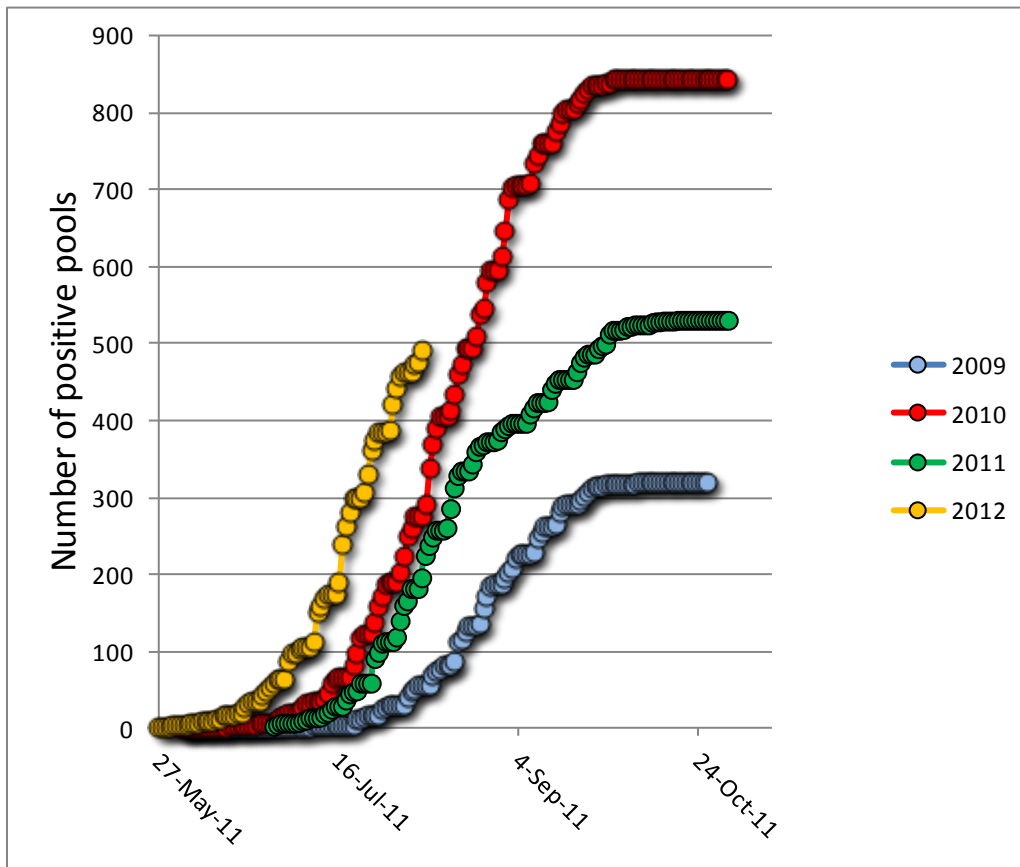
One WNV positive 11 yo quarter horse was reported from Salem County, with onset of symptoms on 4th August. The horse was put down the same day. Generally horses have either an unknown or no vaccination history, but this horse was reported as vaccinated. See http://www.esrutgers.com/downloads/NJDA_08102012.pdf 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-three birds out of 132 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* 16/21), Fish Crow (*Corvus ossifragus* 11/32), unidentified Crow (*Corvus* spp.

8/16), Blue Jay (*Cyanocitta cristata* 4/10), Hawk/Raptor (1/7) and other avian species (3/45). 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
491 / 5589 (0.088)	257 / 3668 (0.070)
2012 Positive Birds to date / Total Birds Submitted	This time last year
43 / 132 (0.326)	12 / 57 (0.211)

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



WNV Results by County through 13 August 2012

County	Species	Pools	Mosquitoes	Positives	MFIR
Atlantic		70	1798	2	1.112
	<i>Aedes albopictus</i>	9	136		
	<i>Aedes canadensis canadensis</i>	1	2		
	<i>Aedes cantator</i>	1	10		
	<i>Aedes japonicus</i>	5	22		
	<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		

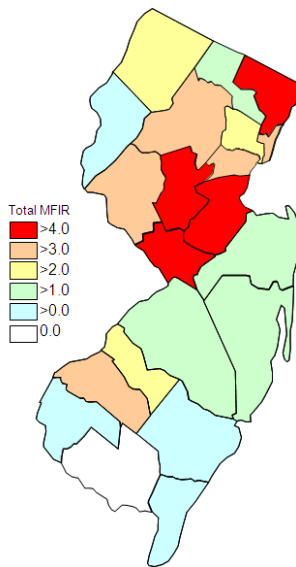
<i>Coquillettidia perturbans</i>	2	3		
<i>Culex erraticus</i>	3	34		
<i>Culex</i> spp.	26	1233	2	1.622
<i>Culiseta melanura</i>	10	141		
<i>Psorophora ferox</i>	1	8		
<i>Psorophora howardii</i>	1	1		
Bergen	120	8285	73	8.811
<i>Aedes albopictus</i>	1	7		
<i>Aedes japonicus</i>	1	4		
<i>Culex</i> spp.	118	8274	73	8.823
Burlington	320	10852	16	1.474
<i>Aedes albopictus</i>	10	147		
<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>	3	3		
<i>Aedes trivittatus</i>	1	2		
<i>Aedes vexans</i>	5	72		
<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>	22	936		
<i>Culex erraticus</i>	4	73		
<i>Culex pipiens</i>	6	222		
<i>Culex restuans</i>	3	55		
<i>Culex salinarius</i>	10	182		
<i>Culex</i> spp.	138	5468	13	2.377
<i>Culiseta melanura</i>	72	3119	2	0.641
<i>Psorophora columbiae</i>	1	5		
Camden	174	6432	27	4.198
<i>Aedes albopictus</i>	9	29		
<i>Aedes japonicus</i>	12	27	1	37.037
<i>Aedes triseriatus</i>	2	6		
<i>Aedes trivittatus</i>	1	2		
<i>Anopheles punctipennis</i>	1	2		
<i>Culex</i> spp.	112	4692	25	5.328
<i>Culiseta melanura</i>	37	1674	1	0.597
Cape May	1687	14742	7	0.475
<i>Aedes albopictus</i>	242	495		
<i>Aedes atlanticus</i>	2	4		
<i>Aedes canadensis canadensis</i>	6	65		
<i>Aedes cantator</i>	39	452		
<i>Aedes japonicus</i>	74	117		
<i>Aedes sollicitans</i>	6	18		
<i>Aedes taeniorhynchus</i>	12	106		
<i>Aedes triseriatus</i>	89	146		
<i>Aedes vexans</i>	9	39		
<i>Anopheles bradleyi</i>	22	70		
<i>Anopheles punctipennis</i>	14	18		

<i>Anopheles quadrimaculatus</i>	50	159		
<i>Coquillettidia perturbans</i>	4	23		
<i>Culex erraticus</i>	96	3700		
<i>Culex pipiens</i>	515	7576	7	0.924
<i>Culex restuans</i>	214	680		
<i>Culex salinarius</i>	106	290		
<i>Culex spp.</i>	60	242		
<i>Culex territans</i>	23	40		
<i>Culiseta melanura</i>	94	492		
<i>Orthopodomyia signifera</i>	10	10		
Cumberland	110	1154		
<i>Aedes albopictus</i>	10	32		
<i>Aedes atlanticus</i>	2	2		
<i>Aedes canadensis canadensis</i>	4	25		
<i>Aedes cantator</i>	3	11		
<i>Aedes japonicus</i>	9	28		
<i>Aedes triseriatus</i>	5	10		
<i>Aedes vexans</i>	2	6		
<i>Anopheles bradleyi</i>	4	158		
<i>Anopheles punctipennis</i>	6	12		
<i>Anopheles quadrimaculatus</i>	1	1		
<i>Coquillettidia perturbans</i>	6	89		
<i>Culex erraticus</i>	1	5		
<i>Culex pipiens</i>	14	338		
<i>Culex restuans</i>	8	86		
<i>Culex salinarius</i>	8	92		
<i>Culex spp.</i>	3	13		
<i>Culex territans</i>	3	3		
<i>Culiseta melanura</i>	19	224		
<i>Psorophora ferox</i>	2	19		
Essex	289	5223	19	3.638
<i>Aedes albopictus</i>	40	163		
<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>	178	4358	18	4.130
<i>Psorophora ferox</i>	1	4		
Gloucester	383	13308	37	2.780
<i>Aedes albopictus</i>	20	600		
<i>Aedes japonicus</i>	5	75		
<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>	244	11372	34	2.990
<i>Culiseta melanura</i>	82	1128	3	2.660
Hudson	146	9402	43	4.573

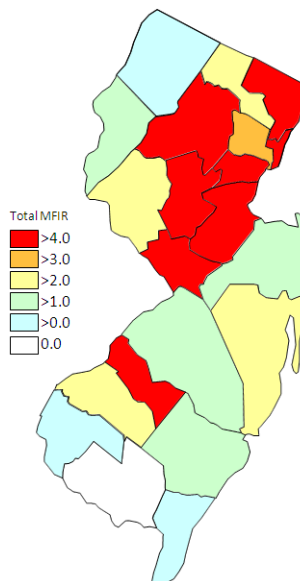
<i>Culex</i> spp.	146	9402	43	4.573
Hunterdon	178	8850	25	2.825
<i>Culex</i> spp.	178	8850	25	2.825
Mercer	182	4809	30	6.238
<i>Aedes albopictus</i>	35	307		
<i>Aedes japonicus</i>	32	177		
<i>Aedes triseriatus</i>	5	11		
<i>Aedes vexans</i>	1	3		
<i>Culex erraticus</i>	1	7		
<i>Culex pipiens</i>	89	3787	29	7.658
<i>Culex restuans</i>	18	464	1	2.155
<i>Culex</i> spp.	1	53		
Middlesex	176	6498	45	6.925
<i>Aedes albopictus</i>	13	156		
<i>Aedes japonicus</i>	15	120		
<i>Aedes triseriatus</i>	3	14		
<i>Culex</i> spp.	145	6208	45	7.249
Monmouth	224	3564	5	1.403
<i>Aedes albopictus</i>	36	189	1	5.291
<i>Aedes canadensis canadensis</i>	9	122		
<i>Aedes cantator</i>	8	43		
<i>Aedes japonicus</i>	35	135	1	7.407
<i>Aedes triseriatus</i>	11	14		
<i>Aedes vexans</i>	4	6		
<i>Anopheles punctipennis</i>	7	9		
<i>Coquillettidia perturbans</i>	3	4		
<i>Culex erraticus</i>	1	1		
<i>Culex salinarius</i>	3	14		
<i>Culex</i> spp.	87	2501	3	1.200
<i>Culiseta melanura</i>	20	526		
Morris	245	9928	42	4.230
<i>Aedes japonicus</i>	9	112		
<i>Aedes triseriatus</i>	2	7		
<i>Anopheles punctipennis</i>	2	65		
<i>Coquillettidia perturbans</i>	3	149		
<i>Culex</i> spp.	229	9595	42	4.377
Ocean	275	4938	11	2.228
<i>Aedes albopictus</i>	61	1281		
<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>	6	27		
<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.	69	1456	11	7.555
<i>Culiseta melanura</i>	16	82		
<i>Psorophora ferox</i>	2	2		
Passaic	104	2186	6	2.745
<i>Aedes albopictus</i>	12	42		
<i>Aedes japonicus</i>	24	292		
<i>Aedes triseriatus</i>	10	25		
<i>Anopheles punctipennis</i>	3	5		
<i>Coquillettidia perturbans</i>	1	2		
<i>Culex</i> spp.	54	1820	6	3.297
Salem	175	1941	1	0.515
<i>Aedes albopictus</i>	19	51		
<i>Aedes canadensis canadensis</i>	2	6		
<i>Aedes cantator</i>	1	1		
<i>Aedes japonicus</i>	6	19		
<i>Aedes sticticus</i>	1	3		
<i>Aedes triseriatus</i>	3	3		
<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>	17	141		
<i>Culex erraticus</i>	6	32		
<i>Culex pipiens</i>	4	26		
<i>Culex restuans</i>	2	15		
<i>Culex</i> spp.	65	1113	1	0.898
<i>Culiseta melanura</i>	18	348		
<i>Culiseta minnesotae</i>	1	2		
<i>Psorophora columbiae</i>	2	25		
<i>Psorophora ferox</i>	2	21		
Somerset	152	3060	16	5.229
<i>Aedes albopictus</i>	9	51		
<i>Aedes canadensis canadensis</i>	1	3		
<i>Aedes japonicus</i>	12	85		
<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.	124	2861	15	5.243
Sussex	187	5965	4	0.671
<i>Coquillettidia perturbans</i>	1	43		
<i>Culex pipiens</i>	4	59		
<i>Culex restuans</i>	6	186		
<i>Culex</i> spp.	169	5665	4	0.706
<i>Culiseta melanura</i>	7	12		
Union	199	10205	77	7.545
<i>Aedes albopictus</i>	19	320		
<i>Aedes japonicus</i>	3	42		

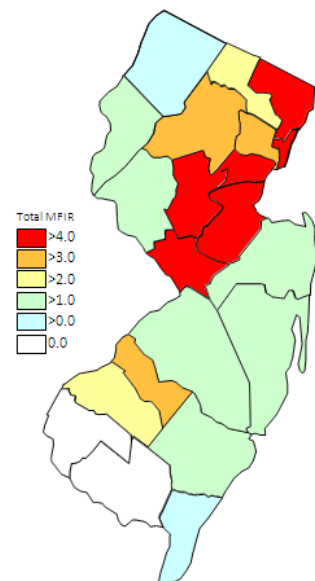
<i>Aedes triseriatus</i>	1	15		
<i>Culex</i> spp.	176	9828	77	7.835
Warren	193	4431	5	1.128
<i>Aedes japonicus</i>	8	18		
<i>Aedes triseriatus</i>	4	4		
<i>Aedes trivittatus</i>	2	2		
<i>Aedes vexans</i>	3	12		
<i>Anopheles punctipennis</i>	9	43		
<i>Anopheles quadrimaculatus</i>	2	2		
<i>Coquillettidia perturbans</i>	1	1		
<i>Culex</i> spp.	164	4349	5	1.150
Grand Total	5589	137571	491	3.569



Cumulative WNV activity in 2011.



WNV activity to 13 August 2012.



WNV activity last week, 2012.

Saint Louis Encephalitis (SLE) through 13 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		67	2315		
	<i>Aedes albopictus</i>	5	22		
	<i>Aedes japonicus</i>	4	6		
	<i>Aedes triseriatus</i>	1	5		
	<i>Anopheles punctipennis</i>	1	2		
	<i>Culex</i> spp.	56	2280		
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>Aedes canadensis canadensis</i>	74	4966		
Grand Total		607	20273		

La Crosse Encephalitis (LAC) through 13 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		69	115		

	<i>Aedes triseriatus</i>	69	115		
Cumberland		5	10		
	<i>Aedes triseriatus</i>	5	10		
Salem		1	1		
	<i>Aedes triseriatus</i>	1	1		
Union		1	15		
	<i>Aedes triseriatus</i>	1	15		
Grand Total		76	141		