

VECTOR SURVEILLANCE IN NEW JERSEY

EEE, WNV, SLE and LAC

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CDC WEEK 33: August 14 to August 20, 2011

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Culiseta melanura and Eastern Equine Encephalitis

SITE	Inland / Coastal	Historic Mean	Current Weekly Mean	Total Tested to Date*	Total Pools Submitted /Tested [†]	EEE Isolations	MFIR
Green Bank (Burlington County)	Coastal	5.76	0.44	41 [†]	9/8	0	
Corbin City (Atlantic County)	Coastal	1.49	0.28	56	9	0	
Dennisville (Cape May County)	Coastal	6.87	0.26	205	12	0	
Winslow (Camden County)	Inland	2.93	1.51	402	14	0	
Centerton (Salem County)	Inland	4.29	0.84	371	13	0	
Turkey Swamp (Monmouth County)	Inland	2.15	0.38	119 [†]	29/28	0	
Glassboro (Gloucester County)	Inland	1.27	0.16	253	12	0	

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

Remarks: The 7 traditional resting box sites for the collection of *Culiseta melanura*, the primary enzootic vector, continue to show no detectable EEE activity, and low *Cs. melanura* populations. Total number of *Culiseta melanura* tested to date is 1436 from 96 pools. Green Bank and Turkey Swamp have additional pools in the system to be tested this week. Low numbers continue to be collected where there are less than one *Cs. melanura* found per box, for most of the season to date. Past history show that for most of these sites, weekly averages are above 1 per box, sometimes in double digits.

Two hundred ten additional pools containing 2,127 *Cs. melanura* have tested negative from other county trapping sites using other traps in addition to resting boxes. No detection of EEE has occurred.

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	1067 (35)	0	
Cape May	CO2, Gravid, RB	232 (51)	0	
Cumberland	CO2, Gravid, RB	223 (24)	0	
Gloucester	RB	544 (77)	0	
Ocean	CO2, Gravid, RB	44 (21)	0	
Salem	BA	3 (1)	0	
Sussex	CO2	14 (1)	0	
TOTAL		2127 (210)	0	

Species other than <i>Cs. melanura</i>	Pools	Mosquitoes	Positives	MFIR
<i>Aedes albopictus</i>	21	171		
<i>Aedes atlanticus</i>	1	1		
<i>Aedes atropalpus</i>	3	4		
<i>Aedes canadensis canadensis</i>	13	518		
<i>Aedes cantator</i>	26	196		
<i>Aedes grossbecki</i>	1	3		
<i>Aedes japonicus</i>	18	67		
<i>Aedes sollicitans</i>	27	198		
<i>Aedes sticticus</i>	1	3		
<i>Aedes taeniorhynchus</i>	20	389		
<i>Aedes thibaulti</i>	1	1		
<i>Aedes triseriatus</i>	8	38		
<i>Aedes vexans</i>	11	392		
<i>Anopheles barberi</i>	1	1		
<i>Anopheles bradleyi</i>	39	644		
<i>Anopheles crucians</i>	1	2		
<i>Anopheles punctipennis</i>	25	264		
<i>Anopheles quadrimaculatus</i>	22	223		
<i>Coquillettidia perturbans</i>	75	1330		
<i>Culex erraticus</i>	105	4857		
<i>Culex pipiens</i>	304	2439		
<i>Culex restuans</i>	19	25		
<i>Culex salinarius</i>	116	937		
<i>Culex</i> spp.	238	8132		
<i>Culex territans</i>	1	14		
<i>Psorophora columbiae</i>	2	14		
<i>Psorophora ferox</i>	2	8		
<i>Psorophora howardii</i>	3	7		
<i>Uranotaenia sapphirina</i>	1	75		
State Total	1105	20,953		

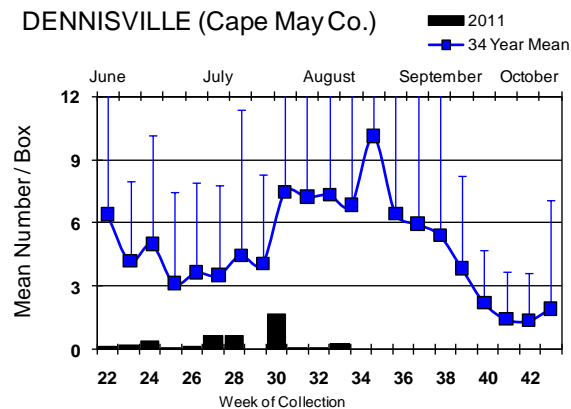
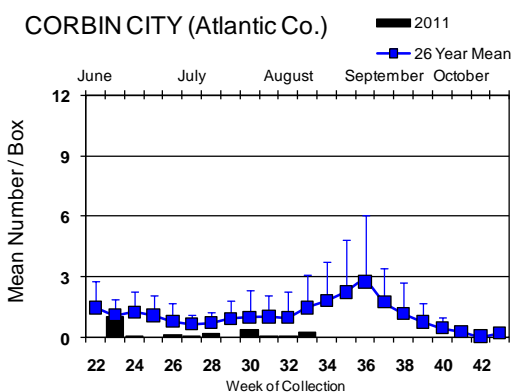
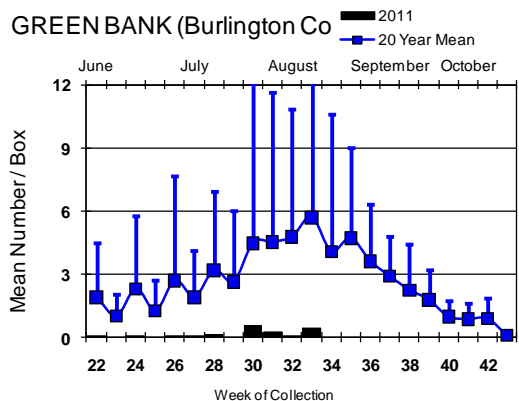
The table to the left indicates non-*Cs. melanura* mosquitoes tested for EEE. An addition 28 species of mosquitoes have been tested with no detection of EEE.

Horses and Humans: No positive horses or humans to date.

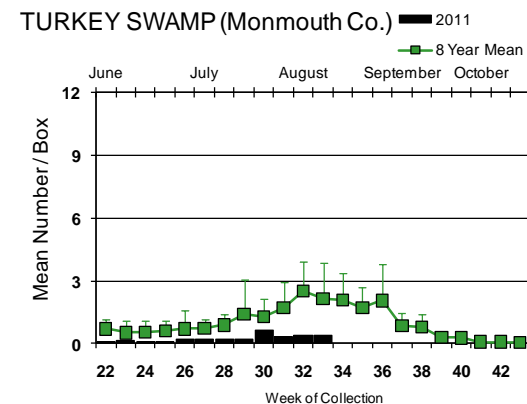
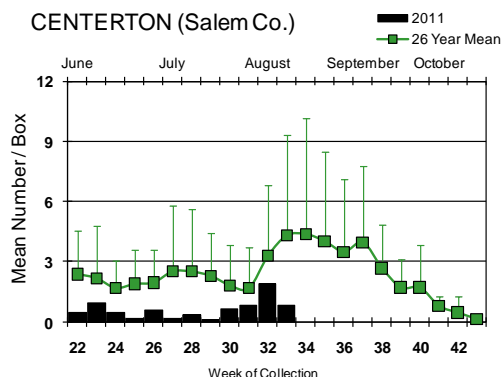
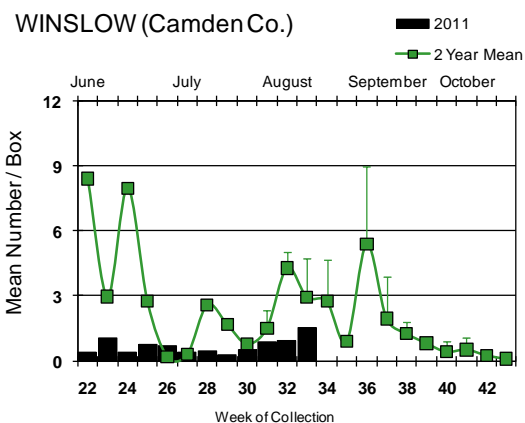
Horses and Vaccinations: The fate of unvaccinated equids reinforces the necessity of maintaining a vaccination schedule for arboviruses. For vaccination schedules recommended by the American Association of Equine Practices, see: http://www.aaep.org/vaccination_guidelines.htm

Culiseta melanura Population Graphs

Coastal



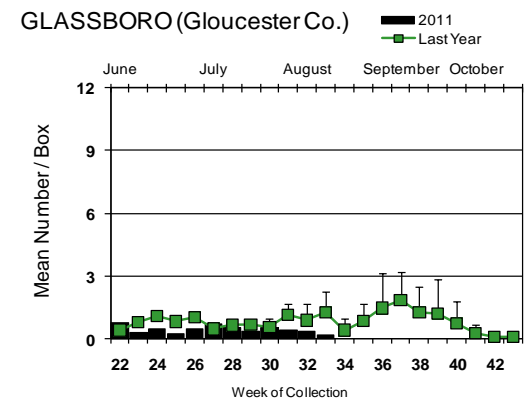
Inland



The Winslow site was the only site to record more than one *Cs. melanura* per box. It also showed a continuing increase from the previous several weeks. Other sites showed either minor increases (again, well below historical trends) or a decrease in the abundance of *Cs. melanura*.

↓ = Positive pool(s) detected.

Note: Both Winslow and Glassboro have single point historical data (the previous year) for weeks 22 to 29.



EEE in US (2011 cumulative cases): (Black or Red = previous + new reported cases occurring)

- equine: 3(FL) 1(LA) 1(NC) 2(NY) 3(WI-2 alpaca)
- mosquito pools: 2(LA) 25(MA) 11(NY) 1(NC)
- sentinel: 15 chickens/19 wild bird (FL) 2(NC) 2(VA)
- human: 1(NY)

West Nile Virus

West Nile in US (2011 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			1		
Alaska					
Arizona	0	71/88	9	2	4/5
Arkansas					
California	151/174	609/773	47/55	1	10/12
Colorado	0	4/14		0	1
Connecticut		39/89			0
Delaware	2/8		1		
DC	2	22			
Florida	1 flavi		54/58		8
Georgia	1	197		1	1
Hawaii					
Idaho					
Illinois	4/7	134/315	0	0	0
Indiana	1	30/37		0	0
Iowa		1	8	1	0
Kansas					
Kentucky					
Louisiana		146/171	1		2
Maine		0		0	0
Maryland		3			
Mass.		107/143		0	0
Michigan	0	0	0	0	0
Minnesota	1				
Mississippi		19/24		0	15
Missouri		56/57		0	0

	Birds	Mosquito Pools	Sentinels	Horses	Humans
Montana				0	0
Nebraska	1	11		0	1/3
Nevada	1	7			1
New Hampshire		1/3		0	0
New Jersey	11/14	186/279		0	1
New Mexico					0
New York		103/232		1*	1
North Carolina					
North Dakota	0	0		3*	2
Ohio		52/248		0	0
Oklahoma		1			
Oregon	0	0	0	0	0
Pennsylvania	6/16	574/753		1*	0
Rhode Island		0		0	0
South Carolina	0	1		0	0
South Dakota		0		0	1
Tennessee	0	373/481		0	0
Texas	1/2	183/191		1/2	4/6
Utah		13/16	0	0	0
Vermont	0	1/2		0	0
Virginia		47	1	0	1
Washington	0	1		0	0
West Virginia	0	0		0	0
Wisconsin	0	0		0	0
Wyoming		6/10		0	1

* Other species (e.g., dogs) reported positive.

Protocol: New Jersey Department of Health and Senior Services (NJDHSS Public Health and Environmental Laboratories, PHEL) and the Cape May County Division of Mosquito Control tests mosquito pools using RT-PCR Taqman techniques.

Mosquito Species Submitted for West Nile Virus Testing through 19 August 2011

Species	Pools	Mosquitoes	Positives	MFIR
<i>Aedes albopictus</i>	454	2839	5	1.761
<i>Aedes atlanticus</i>	2	7		
<i>Aedes atropalpus</i>	3	4		
<i>Aedes aurifer</i>	1	2		
<i>Aedes canadensis canadensis</i>	63	1032		
<i>Aedes cantator</i>	43	230		
<i>Aedes cinereus</i>	3	5		
<i>Aedes grossbecki</i>	3	8		
<i>Aedes japonicus</i>	322	1962		
<i>Aedes sollicitans</i>	41	278		
<i>Aedes sticticus</i>	2	24		
<i>Aedes stimulans</i>	5	47		
<i>Aedes taeniorhynchus</i>	45	884		
<i>Aedes thibaulti</i>	1	1		
<i>Aedes triseriatus</i>	190	476		
<i>Aedes trivittatus</i>	13	159		
<i>Aedes vexans</i>	105	872		
<i>Anopheles barberi</i>	5	5		
<i>Anopheles bradleyi</i>	48	814	1	1.229
<i>Anopheles crucians</i>	1	2		
<i>Anopheles punctipennis</i>	65	343		
<i>Anopheles quadrimaculatus</i>	88	573		
<i>Anopheles walkeri</i>	1	7		
<i>Coquillettidia perturbans</i>	106	1544		
<i>Culex erraticus</i>	123	5452		
<i>Culex pipiens</i>	624	12153	64	5.266
<i>Culex restuans</i>	416	2530	2	0.791
<i>Culex salinarius</i>	136	2017		
<i>Culex spp.</i>	1930	79334	203	2.559
<i>Culex territans</i>	2	15		
<i>Culiseta inornata</i>	2	3		
<i>Culiseta melanura</i>	314	3604	4	1.110
<i>Orthopodomyia signifera</i>	2	2		
<i>Psorophora ciliata</i>	1	1		
<i>Psorophora columbiae</i>	8	75		
<i>Psorophora ferox</i>	18	114		
<i>Psorophora howardii</i>	3	7		
<i>Uranotaenia sapphirina</i>	4	107		
State Total	5,193	117,532	279	2.374

Remarks: To date, there have been 117,532 mosquitoes tested in 5,193 pools from 37 species. Currently, 279 positive pools have been detected last week in *Culex pipiens*, *Cx. restuans*, Mixed *Culex*, *Culiseta melanura*, *Aedes albopictus*, and most recently, *Anopheles bradleyi*. All counties but Cumberland have found positive mosquitoes, primarily in the ornithophilic species. The number of positive pools for *Ae. albopictus*, a very competent bridge vector, has increased. *An. bradleyi* has only been found positive for WNV in two previous pools since the emergence of this disease began: one pool from 2002 in Cape May County and one pool from 2009 in Atlantic County. This year, *An. bradleyi* has been extremely abundant, particularly in southern New Jersey in the Delaware Bayshore region. Dates positive samples were collected were between 28 June and 19 August.

Humans, Horses and Wild Birds: There has been one positive human case reported by the Department of Health and Senior Services: http://www.state.nj.us/cgi-bin/dhss/njnewsline/view_article.pl?id=3759.

No positive horse cases have been reported.

Bird testing began in mid-April. WNV has been detected in sixteen birds from the 68 birds that have been tested. Species include American Crow *Corvus brachyrhynchos* (6/7), Blue Jays *Cyanocitta cristata* (1/7), Fish Crows *Corvus ossifragus* (3/15) unknown Corvus (4/6), Hawk (2) and Other (non-corvid) species (2/31). Positive birds were from Gloucester, Morris, Ocean, and Warren counties. Counties submitting birds are Atlantic, Burlington, Cape May, Cumberland, Gloucester, Monmouth, Morris, Ocean and Warren. County participation in submitting dead birds varies across the state.

2011 Positive Mosquito pools to date / Total Mosquito Pools Submitted	This time last year
279 / 5,193 (0.054)	498 / 3,492 (0.143)
2011 Positive Birds to date / Total Birds Submitted	This time last year
14 / 68 (0.206)	71 / 151 (0.470)

WNV Results by County through 19 August 2011

County	Species	Pools	Mosquitoes	Positives	MFIR
Atlantic		132	3900	1	0.256
	<i>Aedes albopictus</i>	11	266		
	<i>Aedes canadensis canadensis</i>	2	9		
	<i>Aedes cantator</i>	3	20		
	<i>Aedes japonicus</i>	3	15		
	<i>Aedes sollicitans</i>	4	37		
	<i>Aedes taeniorhynchus</i>	4	75		
	<i>Aedes thibaulti</i>	1	1		
	<i>Aedes triseriatus</i>	4	11		
	<i>Aedes vexans</i>	10	67		
	<i>Anopheles bradleyi</i>	2	7		
	<i>Anopheles punctipennis</i>	1	1		
	<i>Anopheles quadrimaculatus</i>	1	2		
	<i>Coquillettidia perturbans</i>	4	57		
	<i>Culex erraticus</i>	1	25		
	<i>Culex restuans</i>	1	1		
	<i>Culex spp.</i>	67	3214	1	0.311
	<i>Culiseta melanura</i>	10	78		
	<i>Orthopodomyia signifera</i>	1	1		
	<i>Psorophora columbiae</i>	1	2		
	<i>Psorophora ferox</i>	1	11		
Bergen		90	6324	53	8.381
	<i>Aedes albopictus</i>	2	7		
	<i>Aedes japonicus</i>	2	9		
	<i>Aedes vexans</i>	1	6		
	<i>Anopheles punctipennis</i>	1	2		
	<i>Culex spp.</i>	84	6300	53	8.413
Burlington		345	12176	20	1.643
	<i>Aedes albopictus</i>	15	151		
	<i>Aedes atlanticus</i>	1	1		
	<i>Aedes atropalpus</i>	3	4		
	<i>Aedes canadensis canadensis</i>	11	512		
	<i>Aedes cantator</i>	2	63		

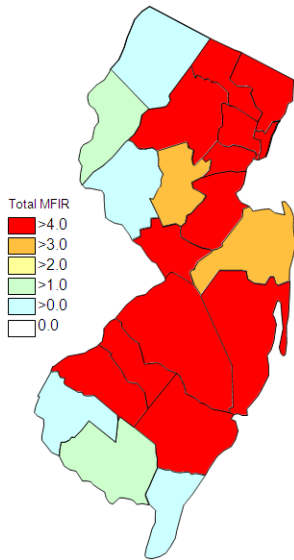
<i>Aedes grossbecki</i>	1	3		
<i>Aedes japonicus</i>	10	52		
<i>Aedes sollicitans</i>	7	129		
<i>Aedes sticticus</i>	1	3		
<i>Aedes taeniorhynchus</i>	8	62		
<i>Aedes triseriatus</i>	7	36		
<i>Aedes vexans</i>	10	391		
<i>Anopheles bradleyi</i>	2	148	1	6.757
<i>Anopheles crucians</i>	1	2		
<i>Anopheles punctipennis</i>	3	17		
<i>Anopheles quadrimaculatus</i>	1	5		
<i>Coquillettidia perturbans</i>	28	795		
<i>Culex erraticus</i>	10	499		
<i>Culex pipiens</i>	5	75	1	13.333
<i>Culex salinarius</i>	16	202		
<i>Culex</i> spp.	152	7812	16	2.048
<i>Culex territans</i>	1	14		
<i>Culiseta melanura</i>	43	1097	2	1.823
<i>Psorophora columbiae</i>	2	14		
<i>Psorophora ferox</i>	1	7		
<i>Psorophora howardii</i>	3	7		
<i>Uranotaenia sapphirina</i>	1	75		
Camden	156	3329	12	3.605
<i>Aedes albopictus</i>	33	159		
<i>Aedes japonicus</i>	19	48		
<i>Aedes triseriatus</i>	4	8		
<i>Aedes vexans</i>	1	1		
<i>Anopheles punctipennis</i>	3	3		
<i>Anopheles quadrimaculatus</i>	1	2		
<i>Culex erraticus</i>	2	7		
<i>Culex</i> spp.	79	2699	12	4.446
<i>Culiseta melanura</i>	14	402		
Cape May	1546	14334	1	0.070
<i>Aedes albopictus</i>	119	210		
<i>Aedes canadensis canadensis</i>	21	363		
<i>Aedes cantator</i>	23	109		
<i>Aedes japonicus</i>	72	141		
<i>Aedes sollicitans</i>	19	67		
<i>Aedes taeniorhynchus</i>	24	484		
<i>Aedes triseriatus</i>	56	87		
<i>Aedes vexans</i>	15	28		
<i>Anopheles bradleyi</i>	37	499		
<i>Anopheles punctipennis</i>	6	8		
<i>Anopheles quadrimaculatus</i>	47	227		
<i>Coquillettidia perturbans</i>	24	322		
<i>Culex erraticus</i>	90	4334		
<i>Culex pipiens</i>	364	3677		
<i>Culex restuans</i>	372	2218	1	0.451
<i>Culex salinarius</i>	100	734		
<i>Culex</i> spp.	93	388		
<i>Culiseta melanura</i>	63	437		
<i>Orthopodomyia signifera</i>	1	1		
Cumberland	128	2408		

	<i>Aedes albopictus</i>	11	35		
	<i>Aedes atlanticus</i>	1	6		
	<i>Aedes canadensis canadensis</i>	3	7		
	<i>Aedes japonicus</i>	4	11		
	<i>Aedes sollicitans</i>	1	2		
	<i>Aedes taeniorhynchus</i>	2	150		
	<i>Aedes triseriatus</i>	12	23		
	<i>Aedes vexans</i>	5	33		
	<i>Anopheles bradleyi</i>	2	150		
	<i>Anopheles punctipennis</i>	1	2		
	<i>Anopheles quadrimaculatus</i>	1	3		
	<i>Coquillettidia perturbans</i>	12	143		
	<i>Culex erraticus</i>	4	5		
	<i>Culex pipiens</i>	2	9		
	<i>Culex restuans</i>	2	5		
	<i>Culex salinarius</i>	14	1050		
	<i>Culex spp.</i>	25	531		
	<i>Culex territans</i>	1	1		
	<i>Culiseta melanura</i>	24	223		
	<i>Psorophora ferox</i>	1	19		
Essex		345	6700	9	1.343
	<i>Aedes albopictus</i>	46	168	1	5.952
	<i>Aedes canadensis canadensis</i>	2	8		
	<i>Aedes grossbecki</i>	2	5		
	<i>Aedes japonicus</i>	46	589		
	<i>Aedes sticticus</i>	1	21		
	<i>Aedes stimulans</i>	4	46		
	<i>Aedes triseriatus</i>	31	87		
	<i>Aedes vexans</i>	24	107		
	<i>Anopheles punctipennis</i>	2	3		
	<i>Culex spp.</i>	184	5648	8	1.416
	<i>Psorophora ferox</i>	3	18		
Gloucester		348	8051	39	4.844
	<i>Aedes albopictus</i>	24	339	3	8.850
	<i>Aedes japonicus</i>	14	117		
	<i>Aedes triseriatus</i>	3	8		
	<i>Anopheles punctipennis</i>	12	231		
	<i>Anopheles quadrimaculatus</i>	13	198		
	<i>Coquillettidia perturbans</i>	4	10		
	<i>Culex pipiens</i>	188	6350	36	5.669
	<i>Culiseta melanura</i>	89	797		
	<i>Psorophora ferox</i>	1	1		
Hudson		105	6856	13	1.896
	<i>Culex spp.</i>	105	6856	13	1.896
Hunterdon		130	6495	11	1.694
	<i>Culex spp.</i>	130	6495	11	1.694
Mercer		153	2630	28	10.646
	<i>Aedes albopictus</i>	43	271		
	<i>Aedes japonicus</i>	27	88		
	<i>Aedes triseriatus</i>	7	14		

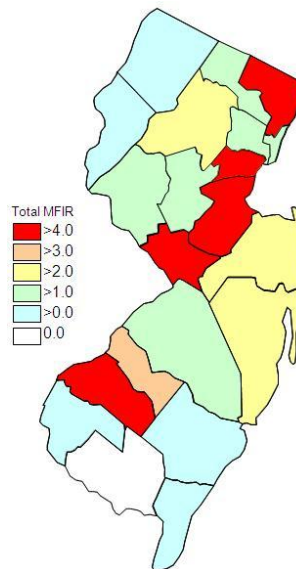
	<i>Aedes vexans</i>	1	2		
	<i>Culex erraticus</i>	2	6		
	<i>Culex pipiens</i>	58	1988	27	13.581
	<i>Culex restuans</i>	13	259	1	3.861
	<i>Culex salinarius</i>	1	1		
	<i>Psorophora ferox</i>	1	1		
Middlesex		152	6016	31	5.153
	<i>Aedes albopictus</i>	4	28		
	<i>Aedes japonicus</i>	17	214		
	<i>Aedes triseriatus</i>	1	5		
	<i>Culex spp.</i>	130	5769	31	5.374
Monmouth		286	2785	7	2.513
	<i>Aedes albopictus</i>	32	73		
	<i>Aedes canadensis canadensis</i>	13	99		
	<i>Aedes cantator</i>	7	28		
	<i>Aedes japonicus</i>	36	127		
	<i>Aedes sollicitans</i>	5	11		
	<i>Aedes taeniorhynchus</i>	5	109		
	<i>Aedes triseriatus</i>	22	69		
	<i>Aedes trivittatus</i>	4	5		
	<i>Aedes vexans</i>	7	15		
	<i>Anopheles barberi</i>	4	4		
	<i>Anopheles punctipennis</i>	12	22		
	<i>Anopheles quadrimaculatus</i>	2	3		
	<i>Coquillettidia perturbans</i>	6	29		
	<i>Culex pipiens</i>	2	3		
	<i>Culex restuans</i>	4	4		
	<i>Culex salinarius</i>	1	16		
	<i>Culex spp.</i>	88	1995	7	3.509
	<i>Culiseta melanura</i>	30	121		
	<i>Psorophora ciliata</i>	1	1		
	<i>Psorophora columbiae</i>	1	6		
	<i>Psorophora ferox</i>	4	45		
Morris		130	5560	13	2.338
	<i>Aedes albopictus</i>	2	14		
	<i>Aedes japonicus</i>	4	105		
	<i>Coquillettidia perturbans</i>	2	65		
	<i>Culex spp.</i>	122	5376	13	2.418
Ocean		258	2424	6	2.475
	<i>Aedes albopictus</i>	54	709		
	<i>Aedes canadensis canadensis</i>	5	5		
	<i>Aedes cantator</i>	7	8		
	<i>Aedes japonicus</i>	22	60		
	<i>Aedes sollicitans</i>	3	28		
	<i>Aedes taeniorhynchus</i>	2	4		
	<i>Aedes triseriatus</i>	14	26		
	<i>Aedes trivittatus</i>	2	2		
	<i>Aedes vexans</i>	14	72		
	<i>Anopheles bradleyi</i>	4	9		
	<i>Anopheles punctipennis</i>	9	9		
	<i>Anopheles quadrimaculatus</i>	3	4		
	<i>Coquillettidia perturbans</i>	14	94		

	<i>Culex erraticus</i>	1	1		
	<i>Culex restuans</i>	11	13		
	<i>Culex salinarius</i>	4	14		
	<i>Culex</i> spp.	63	1314	5	3.805
	<i>Culiseta melanura</i>	21	44	1	22.727
	<i>Psorophora ferox</i>	5	8		
Passaic		94	1853	3	1.619
	<i>Aedes albopictus</i>	10	77		
	<i>Aedes canadensis canadensis</i>	3	10		
	<i>Aedes japonicus</i>	14	156		
	<i>Aedes triseriatus</i>	7	28		
	<i>Aedes trivittatus</i>	3	28		
	<i>Anopheles punctipennis</i>	1	1		
	<i>Coquillettidia perturbans</i>	1	3		
	<i>Culex</i> spp.	55	1550	3	1.935
Salem		193	2768	1	0.361
	<i>Aedes albopictus</i>	13	24		
	<i>Aedes aurifer</i>	1	2		
	<i>Aedes canadensis canadensis</i>	3	19		
	<i>Aedes cantator</i>	1	2		
	<i>Aedes japonicus</i>	17	42		
	<i>Aedes sollicitans</i>	2	4		
	<i>Aedes triseriatus</i>	16	36		
	<i>Aedes vexans</i>	14	108		
	<i>Anopheles bradleyi</i>	1	1		
	<i>Anopheles punctipennis</i>	8	11		
	<i>Anopheles quadrimaculatus</i>	13	96		
	<i>Coquillettidia perturbans</i>	8	22		
	<i>Culex erraticus</i>	13	575		
	<i>Culex pipiens</i>	4	8		
	<i>Culex restuans</i>	8	18		
	<i>Culex</i> spp.	52	1371		
	<i>Culiseta inornata</i>	1	2		
	<i>Culiseta melanura</i>	14	374	1	2.674
	<i>Psorophora columbiae</i>	4	53		
Somerset		113	1591	3	1.886
	<i>Aedes albopictus</i>	11	45		
	<i>Aedes japonicus</i>	9	108		
	<i>Aedes triseriatus</i>	5	29		
	<i>Anopheles punctipennis</i>	1	6		
	<i>Coquillettidia perturbans</i>	1	1		
	<i>Culex</i> spp.	86	1402	3	2.140
Sussex		136	4968	3	0.604
	<i>Aedes japonicus</i>	2	57		
	<i>Culex pipiens</i>	1	43		
	<i>Culex restuans</i>	5	12		
	<i>Culex</i> spp.	123	4826	3	0.622
	<i>Culiseta melanura</i>	5	30		
Union		82	2393	13	5.433
	<i>Aedes albopictus</i>	24	263	1	3.802

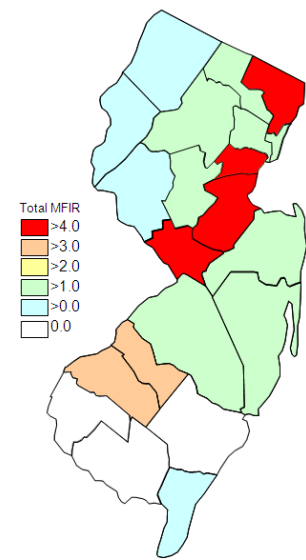
	<i>Aedes japonicus</i>	3	14		
	<i>Culex</i> spp.	55	2116	12	5.671
Warren		271	13971	12	0.859
	<i>Aedes cinereus</i>	3	5		
	<i>Aedes japonicus</i>	1	9		
	<i>Aedes stimulans</i>	1	1		
	<i>Aedes triseriatus</i>	1	9		
	<i>Aedes trivittatus</i>	4	124		
	<i>Aedes vexans</i>	3	42		
	<i>Anopheles barberi</i>	1	1		
	<i>Anopheles punctipennis</i>	5	27		
	<i>Anopheles quadrimaculatus</i>	6	33		
	<i>Anopheles walkeri</i>	1	7		
	<i>Coquillettidia perturbans</i>	2	3		
	<i>Culex</i> spp.	237	13672	12	0.878
	<i>Culiseta inornata</i>	1	1		
	<i>Culiseta melanura</i>	1	1		
	<i>Psorophora ferox</i>	1	4		
	<i>Uranotaenia sapphirina</i>	3	32		
Grand Total		5,193	117,532	279	2.374



Cumulative WNV activity in 2010.



WNV activity to 19 August 2011.



WNV activity last week, 2011.

Saint Louis Encephalitis (SLE) through 19 August 2011.

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 2011.

County	Species	Pools	Mosquitoes	Positives	MFIR
Burlington		334	12143		
	<i>Aedes albopictus</i>	14	150		
	<i>Aedes atlanticus</i>	1	1		
	<i>Aedes atropalpus</i>	3	4		
	<i>Aedes canadensis canadensis</i>	11	512		
	<i>Aedes cantator</i>	2	63		
	<i>Aedes grossbecki</i>	1	3		
	<i>Aedes japonicus</i>	10	52		
	<i>Aedes sollicitans</i>	7	129		
	<i>Aedes sticticus</i>	1	3		
	<i>Aedes taeniorhynchus</i>	8	62		
	<i>Aedes triseriatus</i>	7	36		
	<i>Aedes vexans</i>	10	391		
	<i>Anopheles bradleyi</i>	2	148		
	<i>Anopheles crucians</i>	1	2		
	<i>Anopheles punctipennis</i>	3	17		
	<i>Anopheles quadrimaculatus</i>	1	5		
	<i>Coquillettidia perturbans</i>	28	795		
	<i>Culex erraticus</i>	10	499		
	<i>Culex pipiens</i>	5	75		
	<i>Culex salinarius</i>	15	201		
	<i>Culex</i> spp.	151	7811		
	<i>Culex erraticus</i>	1	14		
	<i>Culiseta melanura</i>	35	1067		
	<i>Psorophora columbiae</i>	2	14		
	<i>Psorophora ferox</i>	1	7		
	<i>Psorophora howardii</i>	3	7		
	<i>Uranotaenia sapphirina</i>	1	75		
Camden		142	2927		
	<i>Aedes albopictus</i>	33	159		
	<i>Aedes japonicus</i>	19	48		
	<i>Aedes triseriatus</i>	4	8		
	<i>Aedes vexans</i>	1	1		
	<i>Anopheles punctipennis</i>	3	3		
	<i>Anopheles quadrimaculatus</i>	1	2		
	<i>Culex erraticus</i>	2	7		
	<i>Culex</i> spp.	79	2699		
Cumberland		1	1		
	<i>Aedes triseriatus</i>	1	1		

Essex		345	6700		
	<i>Aedes albopictus</i>	46	168		
	<i>Aedes canadensis canadensis</i>	2	8		
	<i>Aedes grossbecki</i>	2	5		
	<i>Aedes japonicus</i>	46	589		
	<i>Aedes sticticus</i>	1	21		
	<i>Aedes stimulans</i>	4	46		
	<i>Aedes triseriatus</i>	31	87		
	<i>Aedes vexans</i>	24	107		
	<i>Anopheles punctipennis</i>	2	3		
	<i>Culex</i> spp.	184	5648		
	<i>Psorophora ferox</i>	3	18		
Hudson		105	6856		
	<i>Culex</i> spp.	105	6856		
Grand Total		927	28,627		

La Crosse Encephalitis (LAC) through 19 August 2011.

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 2011.

County	Species	Pools	Mosquitoes	Positives	MFIR
Cape May		56	87		
	<i>Aedes japonicus</i>	1	1		
	<i>Aedes triseriatus</i>	55	86		
Cumberland		14	27		
	<i>Aedes triseriatus</i>	14	27		
Salem		7	16		
	<i>Aedes triseriatus</i>	7	16		
Grand Total		78	139		