

VECTOR SURVEILLANCE IN NEW JERSEY

EEE, WNV, SLE and LAC

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CDC WEEK 34: August 21 to August 27, 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	4.08	0	41 [†]	9	0	
Corbin City (Atlantic County)	Coastal	1.83	0.32	64	10	0	
Dennisville (Cape May County)	Coastal	10.12	0.02	206	13	0	
Winslow (Camden County)	Inland	2.74	0.20	412	15	0	
Centerton (Salem County)	Inland	4.36	0.98	420	14	0	
Turkey Swamp (Monmouth County)	Inland	2.09	0.36	137 [†]	30/29	0	
Glassboro (Gloucester County)	Inland	0.40	0.72	289	13	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 1569 from 103 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.

Two hundred thirty-one additional pools containing 2,250 *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	1114 (39)	0	
Cape May	CO2, Gravid, RB	239 (57)	0	
Cumberland	CO2, Gravid, RB	234 (26)	0	
Gloucester	RB	593 (84)	0	
Ocean	CO2, Gravid, RB	53 (23)	0	
Salem	BA	3 (1)	0	
Sussex	CO2	14 (1)	0	
TOTAL		2250 (231)	0	

Species other than <i>Cs. melanura</i>	Pools	Mosquitoes	Positives	MFIR
<i>Aedes albopictus</i>	26	238		
<i>Aedes atlanticus</i>	1	1		
<i>Aedes atropalpus</i>	3	4		
<i>Aedes canadensis canadensis</i>	15	542		
<i>Aedes cantator</i>	29	201		
<i>Aedes grossbecki</i>	1	3		
<i>Aedes japonicus</i>	18	67		
<i>Aedes sollicitans</i>	29	201		
<i>Aedes sticticus</i>	1	3		
<i>Aedes taeniorhynchus</i>	20	389		
<i>Aedes thibaulti</i>	1	1		
<i>Aedes triseriatus</i>	10	55		
<i>Aedes vexans</i>	12	417		
<i>Anopheles barberi</i>	1	1		
<i>Anopheles bradleyi</i>	52	735		
<i>Anopheles crucians</i>	1	2		
<i>Anopheles punctipennis</i>	27	268		
<i>Anopheles quadrimaculatus</i>	22	223		
<i>Coquillettidia perturbans</i>	79	1343		
<i>Culex erraticus</i>	118	5157		
<i>Culex pipiens</i>	351	2773		
<i>Culex restuans</i>	20	29		
<i>Culex salinarius</i>	140	1005		
<i>Culex</i> spp.	252	8477		
<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	1238	22,253		

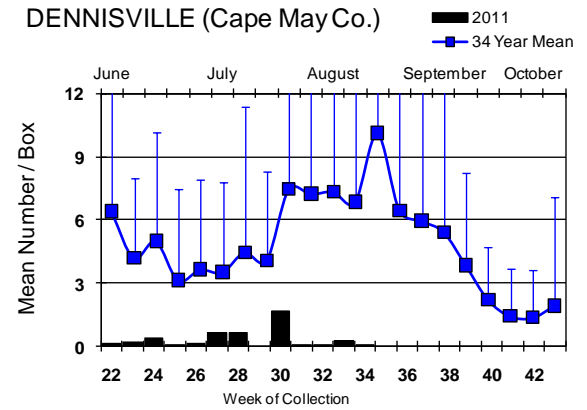
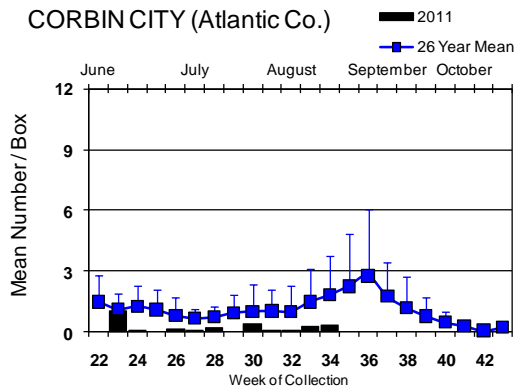
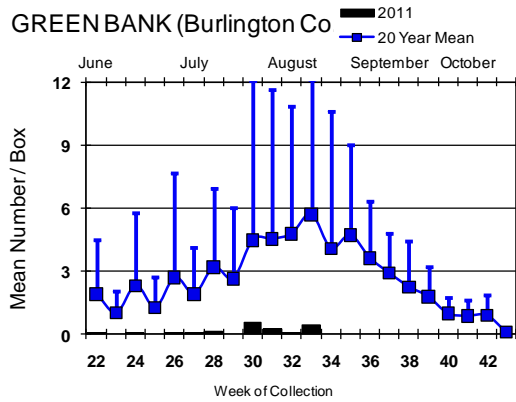
The table to the left indicates non-*Cs. melanura* mosquitoes tested for EEE. An addition 28 species of mosquitoes have been tested with no detection of EEE.

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

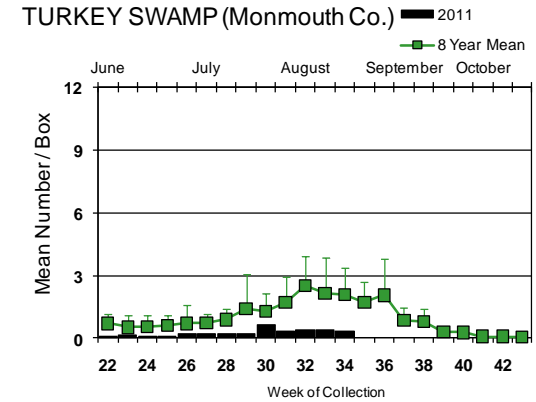
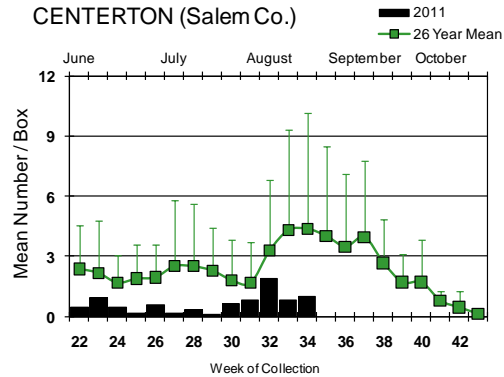
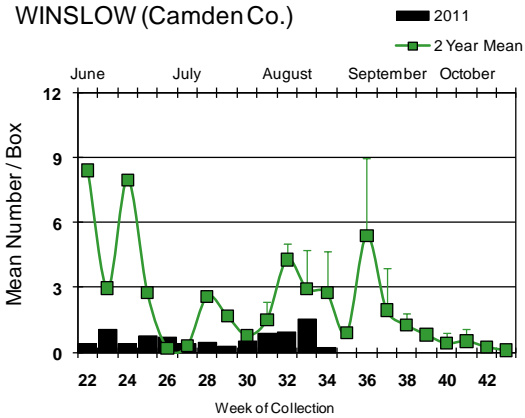
Horses and Vaccinations: The fate of unvaccinated equids reinforces the necessity of maintaining a vaccination schedule for arboviruses. For vaccination schedules recommended by the American Association of Equine Practices, see: http://www.aaep.org/vaccination_guidelines.htm

Culiseta melanura Population Graphs

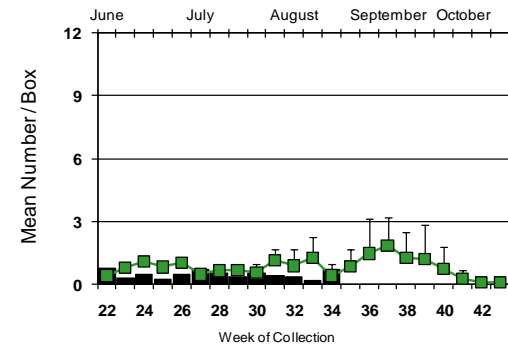
Coastal



Inland



GLASSBORO (Gloucester Co.) 2011



All of the traditional resting box sites continue to show abundance values of less than one *Cs. melanura* per resting box. The Glassboro site did show a higher than historical value, the only site to do so.

↓ = 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) 4(NY) 1(NC) 5(WI-2 alpaca)
- mosquito pools: 2(LA) 54(MA) 26(NY) 1(NC)
- sentinel: 19 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	88/99	9	2	5/16
Arkansas					
California	174/229	773/1028	55/79	2	12/20
Colorado	0	14/32		0	1/2
Connecticut		89/122			0
Delaware	8/10		1/2		
DC	2/5	22			
Florida	1 flavi		58/60	1	8/11
Georgia		197		1	1/2
Hawaii					
Idaho					
Illinois	7/9	335/516	0	0	4
Indiana	1	46/79		1	3
Iowa		1/2	8/10	1	0
Kansas					
Kentucky					
Louisiana		171/216	1		2
Maine		0		0	0
Maryland	3	3/11			
Mass.		143/191		0	0
Michigan	2	1	0	0	1
Minnesota	1	1		1	
Mississippi		24/27		0	15/18
Missouri		57/65		0	1

	Birds	Mosquito Pools	Sentinels	Horses	Humans
Montana				0	0
Nebraska	1/2	11/13		0	3/6
Nevada	2	7/8		1	1/2
New Hampshire		3/4		0	0
New Jersey	14/19	279/336		0	1
New Mexico					0
New York		232/329		1*	1/3
North Carolina					
North Dakota	0	0		4*	2
Ohio		248/450		0	3
Oklahoma		1			
Oregon	0	2	0	0	0
Pennsylvania	16/23	753/939		2*	0
Rhode Island		0		0	0
South Carolina	0	1		0	0
South Dakota		2		0	1
Tennessee	0	481		0	0
Texas	2	191/479		2	6/9
Utah		16/22	0	0	0
Vermont	2	2		0	0
Virginia		47	1	0	1
Washington	0	1		0	0
West Virginia	0	0		0	0
Wisconsin	2	0		0	0
Wyoming		6/10		0	1

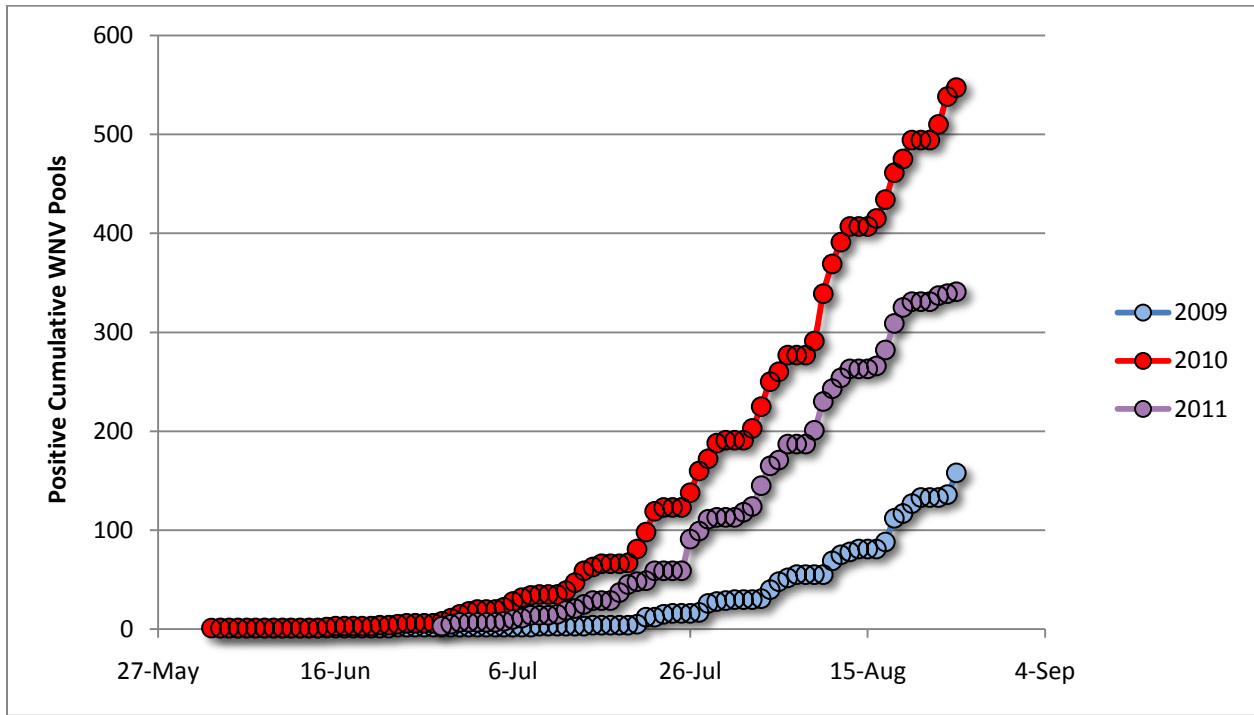
* Can include other species (e.g., dogs) reported positive.

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 25 August 2011

Species	Pools	Mosquitoes	Positives	MFIR
<i>Aedes albopictus</i>	619	4197	6	1.430
<i>Aedes atlanticus</i>	2	7		
<i>Aedes atropalpus</i>	3	4		
<i>Aedes aurifer</i>	1	2		
<i>Aedes canadensis canadensis</i>	70	1088		
<i>Aedes cantator</i>	46	235		
<i>Aedes cinereus</i>	3	5		
<i>Aedes grossbecki</i>	3	8		
<i>Aedes japonicus</i>	362	2128	1	0.470
<i>Aedes sollicitans</i>	45	283		
<i>Aedes sticticus</i>	2	24		
<i>Aedes stimulans</i>	5	47		
<i>Aedes taeniorhynchus</i>	51	909		
<i>Aedes thibaulti</i>	1	1		
<i>Aedes triseriatus</i>	214	520		
<i>Aedes trivittatus</i>	14	163		
<i>Aedes vexans</i>	116	932		
<i>Anopheles barberi</i>	5	5		
<i>Anopheles bradleyi</i>	64	908	1	1.101
<i>Anopheles crucians</i>	1	2		
<i>Anopheles punctipennis</i>	75	358		
<i>Anopheles quadrimaculatus</i>	98	590		
<i>Anopheles walkeri</i>	1	7		
<i>Coquillettidia perturbans</i>	113	1621		
<i>Culex erraticus</i>	141	5778		
<i>Culex pipiens</i>	701	12950	68	5.251
<i>Culex restuans</i>	459	2734	5	1.829
<i>Culex salinarius</i>	162	2091	1	0.478
<i>Culex spp.</i>	2113	85459	249	2.914
<i>Culex territans</i>	3	16		
<i>Culiseta inornata</i>	2	3		
<i>Culiseta melanura</i>	343	3861	5	1.295
<i>Orthopodomyia signifera</i>	4	4		
<i>Psorophora ciliata</i>	1	1		
<i>Psorophora columbiae</i>	8	75		
<i>Psorophora ferox</i>	20	116		
<i>Psorophora howardii</i>	3	7		
<i>Uranotaenia sapphirina</i>	4	107		
State Total	5,878	127,246	336	2.641

Remarks: To date, there have been 127,246 mosquitoes tested in 5,878 pools from 37 species. Currently, 336 positive pools have been detected last week in *Culex pipiens*, *Cx. restuans*, Mixed *Culex*, *Culiseta melanura*, *Aedes albopictus*, *Anopheles bradleyi* and most recently, *Culex salinarius* and *Aedes japonicus*. *Culex salinarius* may have already been positive given that it likely makes up a portion of the *Culex* Mix samples. This species has not been shown to play as significant a role here in New Jersey and sometimes is not detected positive at all. It is, however, a cosmopolitan feeder, and as such, should not be ignored. In addition, *Aedes japonicus*, a very competent WNV vector, has become positive in one pool. Dates positive samples were collected were between 28 June and 25 August.



When plotting cumulative WNV positive pools, this year continues to be in between the very active 2010 season and the more modestly active 2009 season. This year has been very different from the previous active year (considerable rain, hurricane versus the extended drought of 2010), yet the pattern is closer to the more active year. However, the rate of activity is not as extreme as in 2010. Note that this graph does not employ the use of a denominator and that the pattern can change when made equivalent. This year is likely to have a somewhat lower rate compared to 2010 as more samples have been tested to date as compared to last year at this time.

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 nineteen birds from the 74 birds that have been tested. Species include American Crow *Corvus brachyrhynchos* (7/9), Blue Jays *Cyanocitta cristata* (2/8), Fish Crows *Corvus ossifragus* (4/17) unknown *Corvus* (4/6), Hawk (0/2) and Other (non-corvid) species (2/32). 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
336 / 5,878 (0.057)	608 / 3,916 (0.155)
2011 Positive Birds to date / Total Birds Submitted	This time last year
17 / 74 (0.257)	94 / 184 (0.511)

WNV Results by County through 25 August 2011

County	Species	Pools	Mosquitoes	Positives	MFIR
Atlantic		143	4195	1	0.238
	<i>Aedes albopictus</i>	12	305		
	<i>Aedes canadensis canadensis</i>	2	9		
	<i>Aedes cantator</i>	3	20		
	<i>Aedes japonicus</i>	4	18		
	<i>Aedes sollicitans</i>	4	37		
	<i>Aedes taeniorhynchus</i>	5	89		
	<i>Aedes thibaulti</i>	1	1		
	<i>Aedes triseriatus</i>	5	12		
	<i>Aedes vexans</i>	11	81		
	<i>Anopheles bradleyi</i>	2	7		
	<i>Anopheles punctipennis</i>	1	1		
	<i>Anopheles quadrimaculatus</i>	1	2		
	<i>Coquillettidia perturbans</i>	5	63		
	<i>Culex erraticus</i>	4	185		
	<i>Culex restuans</i>	1	1		
	<i>Culex</i> spp.	68	3264	1	0.306
	<i>Culiseta melanura</i>	11	86		
	<i>Orthopodomyia signifera</i>	1	1		
	<i>Psorophora columbiae</i>	1	2		
	<i>Psorophora ferox</i>	1	11		
Bergen		105	7375	66	8.949
	<i>Aedes albopictus</i>	2	7		
	<i>Aedes japonicus</i>	3	10		
	<i>Aedes vexans</i>	1	6		
	<i>Anopheles punctipennis</i>	1	2		
	<i>Culex</i> spp.	98	7350	66	8.980
Burlington		376	12828	23	1.793
	<i>Aedes albopictus</i>	20	218		
	<i>Aedes atlanticus</i>	1	1		
	<i>Aedes atropalpus</i>	3	4		
	<i>Aedes canadensis canadensis</i>	13	536		
	<i>Aedes cantator</i>	2	63		

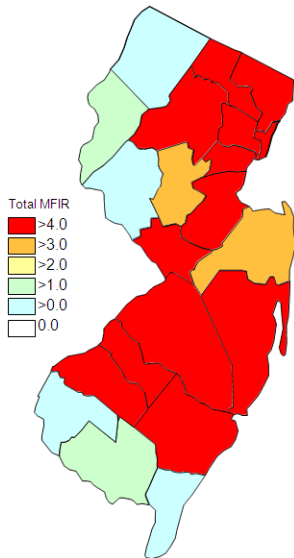
<i>Aedes grossbecki</i>	1	3		
<i>Aedes japonicus</i>	10	52		
<i>Aedes sollicitans</i>	7	129		
<i>Aedes sticticus</i>	1	3		
<i>Aedes taeniorhynchus</i>	8	62		
<i>Aedes triseriatus</i>	9	53		
<i>Aedes vexans</i>	11	416		
<i>Anopheles bradleyi</i>	3	223	1	4.484
<i>Anopheles crucians</i>	1	2		
<i>Anopheles punctipennis</i>	3	17		
<i>Anopheles quadrimaculatus</i>	1	5		
<i>Coquillettidia perturbans</i>	29	805		
<i>Culex erraticus</i>	10	499		
<i>Culex pipiens</i>	7	90	1	11.111
<i>Culex restuans</i>	1	4		
<i>Culex salinarius</i>	18	231		
<i>Culex spp.</i>	161	8140	18	2.211
<i>Culex territans</i>	1	14		
<i>Culiseta melanura</i>	48	1155	3	2.597
<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	167	3546	13	3.666
<i>Aedes albopictus</i>	36	185		
<i>Aedes japonicus</i>	21	50		
<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 spp.</i>	84	2878	13	4.517
<i>Culiseta melanura</i>	15	412		
Cape May	1822	15293	2	0.131
<i>Aedes albopictus</i>	204	454		
<i>Aedes canadensis canadensis</i>	24	393		
<i>Aedes cantator</i>	26	114		
<i>Aedes japonicus</i>	82	156		
<i>Aedes sollicitans</i>	21	70		
<i>Aedes taeniorhynchus</i>	29	495		
<i>Aedes triseriatus</i>	71	106		
<i>Aedes vexans</i>	18	32		
<i>Anopheles bradleyi</i>	49	515		
<i>Anopheles punctipennis</i>	9	11		
<i>Anopheles quadrimaculatus</i>	55	242		
<i>Coquillettidia perturbans</i>	26	324		
<i>Culex erraticus</i>	99	4469		
<i>Culex pipiens</i>	410	4001		
<i>Culex restuans</i>	406	2285	1	0.438
<i>Culex salinarius</i>	122	773	1	1.294
<i>Culex spp.</i>	98	405		
<i>Culiseta melanura</i>	70	445		
<i>Orthopodomyia signifera</i>	3	3		

Cumberland	144	2466		
<i>Aedes albopictus</i>	14	59		
<i>Aedes atlanticus</i>	1	6		
<i>Aedes canadensis canadensis</i>	3	7		
<i>Aedes japonicus</i>	5	15		
<i>Aedes sollicitans</i>	1	2		
<i>Aedes taeniorhynchus</i>	2	150		
<i>Aedes triseriatus</i>	12	23		
<i>Aedes vexans</i>	6	34		
<i>Anopheles bradleyi</i>	2	150		
<i>Anopheles punctipennis</i>	3	5		
<i>Anopheles quadrimaculatus</i>	1	3		
<i>Coquillettidia perturbans</i>	12	143		
<i>Culex erraticus</i>	5	10		
<i>Culex pipiens</i>	6	13		
<i>Culex restuans</i>	2	5		
<i>Culex salinarius</i>	15	1055		
<i>Culex</i> spp.	25	531		
<i>Culex territans</i>	2	2		
<i>Culiseta melanura</i>	26	234		
<i>Psorophora ferox</i>	1	19		
Essex	385	7094	15	2.114
<i>Aedes albopictus</i>	62	264	1	3.788
<i>Aedes canadensis canadensis</i>	2	8		
<i>Aedes grossbecki</i>	2	5		
<i>Aedes japonicus</i>	52	608	1	1.645
<i>Aedes sticticus</i>	1	21		
<i>Aedes stimulans</i>	4	46		
<i>Aedes triseriatus</i>	33	89		
<i>Aedes vexans</i>	25	111		
<i>Anopheles punctipennis</i>	2	3		
<i>Culex</i> spp.	199	5921	13	2.196
<i>Psorophora ferox</i>	3	18		
Gloucester	384	8630	42	4.867
<i>Aedes albopictus</i>	29	447	3	6.711
<i>Aedes japonicus</i>	14	117		
<i>Aedes triseriatus</i>	3	8		
<i>Anopheles punctipennis</i>	14	235		
<i>Anopheles quadrimaculatus</i>	13	198		
<i>Coquillettidia perturbans</i>	5	11		
<i>Culex pipiens</i>	208	6731	39	5.794
<i>Culiseta melanura</i>	97	882		
<i>Psorophora ferox</i>	1	1		
Hudson	120	7630	21	2.752
<i>Culex</i> spp.	120	7630	21	2.752
Hunterdon	150	7459	13	1.743
<i>Culex</i> spp.	150	7459	11	1.743
Mercer	174	2882	33	11.450
<i>Aedes albopictus</i>	49	314	1	3.185
<i>Aedes japonicus</i>	29	91		

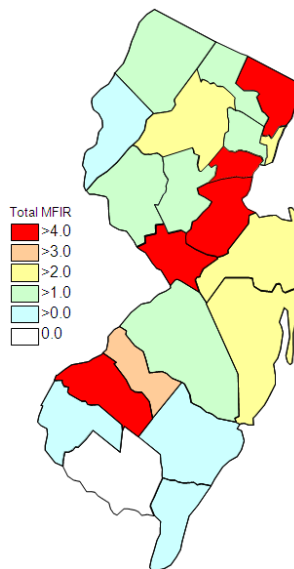
<i>Aedes triseriatus</i>	7	14		
<i>Aedes vexans</i>	1	2		
<i>Culex erraticus</i>	2	6		
<i>Culex pipiens</i>	63	2061	28	13.586
<i>Culex restuans</i>	21	392	4	10.204
<i>Culex salinarius</i>	1	1		
<i>Psorophora ferox</i>	1	1		
Middlesex	174	6737	39	5.789
<i>Aedes albopictus</i>	9	75		
<i>Aedes japonicus</i>	18	218		
<i>Aedes triseriatus</i>	1	5		
<i>Culex</i> spp.	146	6439	39	6.057
Monmouth	307	2975	7	2.353
<i>Aedes albopictus</i>	38	200		
<i>Aedes canadensis canadensis</i>	14	100		
<i>Aedes cantator</i>	7	28		
<i>Aedes japonicus</i>	40	136		
<i>Aedes sollicitans</i>	7	13		
<i>Aedes taeniorhynchus</i>	5	109		
<i>Aedes triseriatus</i>	23	70		
<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</i> spp.	94	2027	7	3.453
<i>Culiseta melanura</i>	31	139		
<i>Psorophora ciliata</i>	1	1		
<i>Psorophora columbiae</i>	1	6		
<i>Psorophora ferox</i>	4	45		
Morris	150	5990	13	2.170
<i>Aedes albopictus</i>	2	14		
<i>Aedes japonicus</i>	6	125		
<i>Coquillettidia perturbans</i>	2	65		
<i>Culex</i> spp.	140	5786	13	2.247
Ocean	282	2781	7	2.517
<i>Aedes albopictus</i>	61	1026		
<i>Aedes canadensis canadensis</i>	6	6		
<i>Aedes cantator</i>	7	8		
<i>Aedes japonicus</i>	24	63		
<i>Aedes sollicitans</i>	3	28		
<i>Aedes taeniorhynchus</i>	2	4		
<i>Aedes triseriatus</i>	15	27		
<i>Aedes trivittatus</i>	2	2		
<i>Aedes vexans</i>	14	72		
<i>Anopheles bradleyi</i>	5	10		
<i>Anopheles punctipennis</i>	10	11		
<i>Anopheles quadrimaculatus</i>	3	4		

	<i>Coquillettidia perturbans</i>	15	95		
	<i>Culex erraticus</i>	1	1		
	<i>Culex restuans</i>	11	13		
	<i>Culex salinarius</i>	5	15		
	<i>Culex</i> spp.	69	1334	6	4.498
	<i>Culiseta melanura</i>	23	53	1	18.868
	<i>Psorophora ferox</i>	6	9		
Passaic		109	2169	3	1.383
	<i>Aedes albopictus</i>	13	128		
	<i>Aedes canadensis canadensis</i>	3	10		
	<i>Aedes japonicus</i>	16	163		
	<i>Aedes triseriatus</i>	7	28		
	<i>Aedes trivittatus</i>	4	32		
	<i>Aedes vexans</i>	1	4		
	<i>Anopheles punctipennis</i>	1	1		
	<i>Coquillettidia perturbans</i>	1	3		
	<i>Culex</i> spp.	63	1800	3	1.667
Salem		213	2866	1	0.349
	<i>Aedes albopictus</i>	18	36		
	<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>	15	111		
	<i>Anopheles bradleyi</i>	3	3		
	<i>Anopheles punctipennis</i>	8	11		
	<i>Anopheles quadrimaculatus</i>	14	97		
	<i>Coquillettidia perturbans</i>	8	22		
	<i>Culex erraticus</i>	18	601		
	<i>Culex pipiens</i>	4	8		
	<i>Culex restuans</i>	8	18		
	<i>Culex</i> spp.	57	1376		
	<i>Culiseta inornata</i>	1	2		
	<i>Culiseta melanura</i>	15	423	1	2.364
	<i>Psorophora columbiae</i>	4	53		
Somerset		132	1665	3	1.802
	<i>Aedes albopictus</i>	18	78		
	<i>Aedes japonicus</i>	10	112		
	<i>Aedes triseriatus</i>	5	29		
	<i>Anopheles punctipennis</i>	1	6		
	<i>Coquillettidia perturbans</i>	1	1		
	<i>Culex</i> spp.	97	1439	3	2.085
Sussex		157	5727	7	1.222
	<i>Aedes japonicus</i>	5	122		
	<i>Coquillettidia perturbans</i>	1	57		
	<i>Culex pipiens</i>	1	43		
	<i>Culex restuans</i>	5	12		
	<i>Culex</i> spp.	139	5462	7	1.282
	<i>Culiseta melanura</i>	6	31		

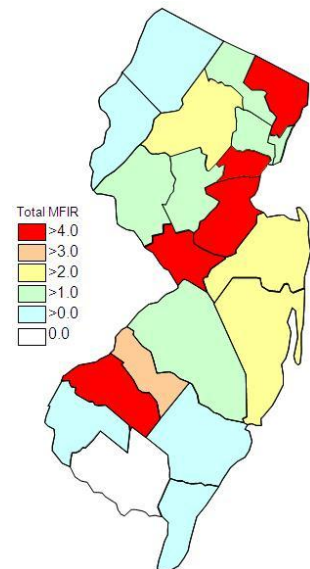
Union	95	2626	14	5.331
<i>Aedes albopictus</i>	32	387	1	2.584
<i>Aedes japonicus</i>	3	14		
<i>Culex</i> spp.	60	2225	13	5.843
Warren	289	14312	13	0.908
<i>Aedes cinereus</i>	3	5		
<i>Aedes japonicus</i>	3	16		
<i>Aedes stimulans</i>	1	1		
<i>Aedes triseriatus</i>	3	12		
<i>Aedes trivittatus</i>	4	124		
<i>Aedes vexans</i>	5	47		
<i>Anopheles barberi</i>	1	1		
<i>Anopheles punctipennis</i>	7	30		
<i>Anopheles quadrimaculatus</i>	7	34		
<i>Anopheles walkeri</i>	1	7		
<i>Coquillettidia perturbans</i>	2	3		
<i>Culex</i> spp.	245	13993	13	0.929
<i>Culiseta inornata</i>	1	1		
<i>Culiseta melanura</i>	1	1		
<i>Psorophora ferox</i>	2	5		
<i>Uranotaenia sapphirina</i>	3	32		
Grand Total	5,878	127,246	336	2.641



Cumulative WNV activity in 2010.



WNV activity to 25 August 2011.



WNV activity last week, 2011.

Saint Louis Encephalitis (SLE) through 25 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		364	12784		
	<i>Aedes albopictus</i>	19	217		
	<i>Aedes atlanticus</i>	1	1		
	<i>Aedes atropalpus</i>	3	4		
	<i>Aedes canadensis canadensis</i>	13	536		
	<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>	9	53		
	<i>Aedes vexans</i>	11	416		
	<i>Anopheles bradleyi</i>	3	223		
	<i>Anopheles crucians</i>	1	2		
	<i>Anopheles punctipennis</i>	3	17		
	<i>Anopheles quadrimaculatus</i>	1	5		
	<i>Coquillettidia perturbans</i>	29	805		
	<i>Culex erraticus</i>	10	499		
	<i>Culex pipiens</i>	7	90		
	<i>Culex restuans</i>	1	4		
	<i>Culex salinarius</i>	17	230		
	<i>Culex</i> spp.	160	8139		
	<i>Culex erraticus</i>	1	14		
	<i>Culiseta melanura</i>	39	1114		
	<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		152	3134		
	<i>Aedes albopictus</i>	36	185		
	<i>Aedes japonicus</i>	21	50		
	<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.	84	2878		
Cumberland		1	1		
	<i>Aedes triseriatus</i>	1	1		

Essex	385	7094		
<i>Aedes albopictus</i>	62	264		
<i>Aedes canadensis canadensis</i>	2	8		
<i>Aedes grossbecki</i>	2	5		
<i>Aedes japonicus</i>	52	608		
<i>Aedes sticticus</i>	1	21		
<i>Aedes stimulans</i>	4	46		
<i>Aedes triseriatus</i>	33	89		
<i>Aedes vexans</i>	25	111		
<i>Anopheles punctipennis</i>	2	3		
<i>Culex</i> spp.	199	5921		
<i>Psorophora ferox</i>	3	18		
Hudson	105	6856		
<i>Culex</i> spp.	105	6856		
Grand Total	1007	29,869		

La Crosse Encephalitis (LAC) through 25 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		71	106		
	<i>Aedes japonicus</i>	1	1		
	<i>Aedes triseriatus</i>	70	105		
Cumberland		14	27		
	<i>Aedes triseriatus</i>	14	27		
Salem		7	16		
	<i>Aedes triseriatus</i>	7	16		
Grand Total		93	158		