

VECTOR SURVEILLANCE IN NEW JERSEY

EEE, WNV, SLE and LAC

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CDC WEEK 41: October 9 to October 15, 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	0.86	0.32	112 [†]	17	0	
Corbin City (Atlantic County)	Coastal	0.31	0.08	174	17	0	
Dennisville (Cape May County)	Coastal	1.36	0.22	229	20	0	
Winslow (Camden County)	Inland	0.52	0.30	497 [†]	22	0	
Centerton (Salem County)	Inland	0.80	1.64	906	28	0	
Turkey Swamp (Monmouth County)	Inland	0.08	No collection	360	36	0	
Glassboro (Gloucester County)	Inland	0.26	0.20	474	21	0	

*Including trial run last week in May. † Adjusted for testing this week.

Remarks: The traditional resting box sites for the collection of *Culiseta melanura*, the primary enzootic vector, continue to show no detectable EEE activity. Total number of *Culiseta melanura* tested to date is 2729 mosquitoes from 159 pools. Samples from Green Bank and Winslow will be analyzed later this week and collections from Turkey Swamp resume this week. As with last week, one *Cs. melanura* pool was positive for WNV.

Three hundred ninety three additional pools containing 3,934 *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, Gravid	2233 (87)	0	
Cape May	CO2, Gravid, RB	432 (93)	0	
Cumberland	CO2, Gravid, RB	320 (38)	0	
Gloucester	RB	802 (127)	0	
Ocean	CO2, Gravid, RB	94 (37)	0	
Salem	BA, Gravid	28 (8)	0	
Sussex	CO2	14 (1)	0	
TOTAL		3934 (393)	0	

Species other than <i>Cs. melanura</i>	Pools	Mosquitoes	Positives	MFIR
<i>Aedes albopictus</i>	57	488		
<i>Aedes atlanticus</i>	6	60		
<i>Aedes atropalpus</i>	3	4		
<i>Aedes canadensis canadensis</i>	48	1998		
<i>Aedes cantator</i>	49	247		
<i>Aedes grossbecki</i>	1	3		
<i>Aedes japonicus</i>	27	98		
<i>Aedes mitchellae</i>	2	29		
<i>Aedes sollicitans</i>	38	238		
<i>Aedes sticticus</i>	2	30		
<i>Aedes taeniorhynchus</i>	22	411		
<i>Aedes thibaulti</i>	1	1		
<i>Aedes triseriatus</i>	18	96		
<i>Aedes trivittatus</i>	1	7		
<i>Aedes vexans</i>	24	841		
<i>Anopheles barberi</i>	2	2		
<i>Anopheles bradleyi</i>	92	1054		
<i>Anopheles crucians</i>	7	75		
<i>Anopheles punctipennis</i>	43	360		
<i>Anopheles quadrimaculatus</i>	38	310		
<i>Coquillettidia perturbans</i>	87	1357		
<i>Culex erraticus</i>	214	9248		
<i>Culex pipiens</i>	500	3971		
<i>Culex restuans</i>	41	107		
<i>Culex salinarius</i>	186	1216		
<i>Culex</i> spp.	372	12298		
<i>Culex territans</i>	4	24		
<i>Psorophora ciliata</i>	1	35		
<i>Psorophora columbiae</i>	7	148		
<i>Psorophora ferox</i>	9	119		
<i>Psorophora howardii</i>	4	35		
<i>Uranotaenia sapphirina</i>	3	81		
State Total	1909	34,991		

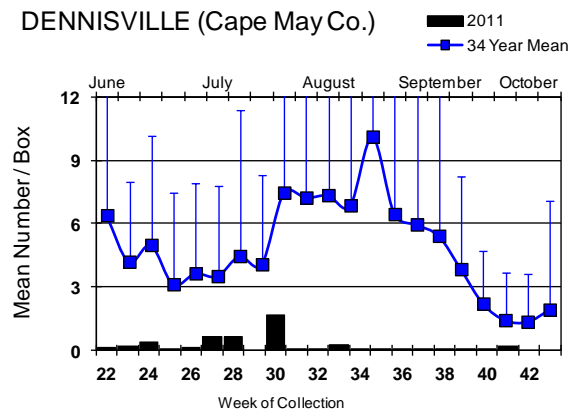
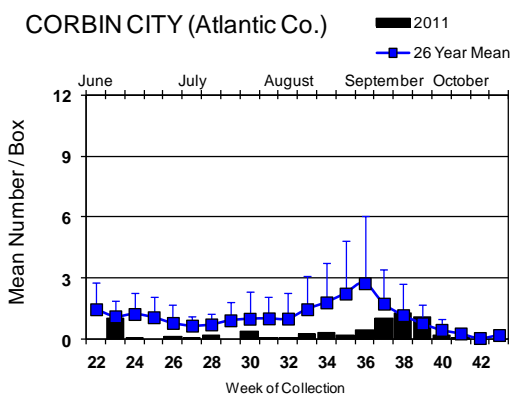
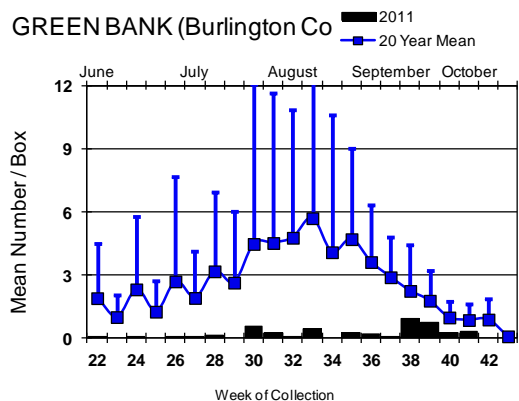
The table to the left indicates non-*Cs. melanura* mosquitoes tested for EEE. An additional 31 species of mosquitoes have been tested with no detection of EEE.

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

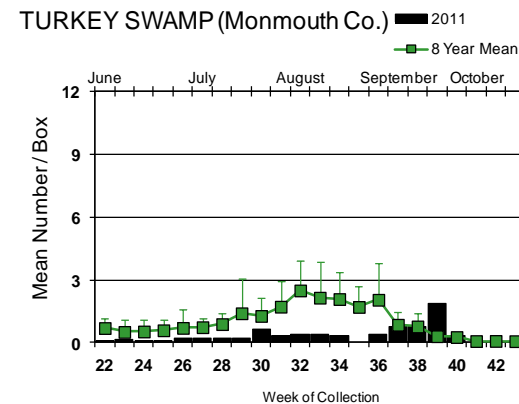
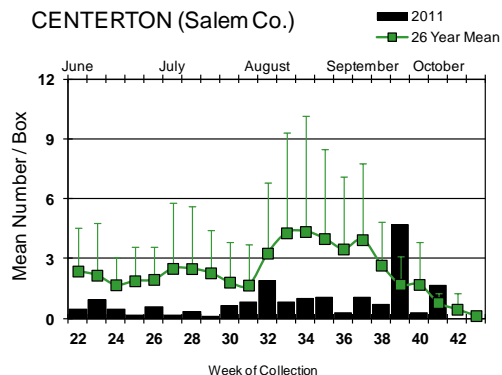
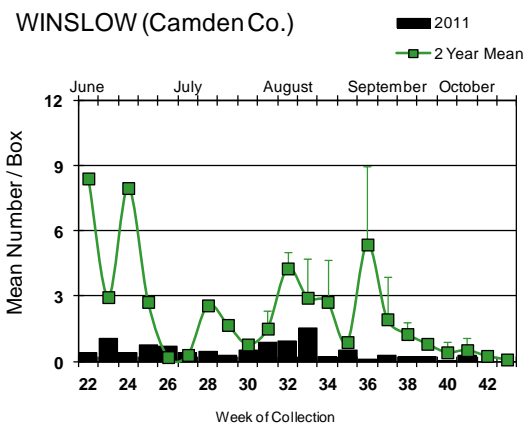
Horses and Vaccinations: The fate of unvaccinated equids reinforces the necessity of maintaining a vaccination schedule for arboviruses. For vaccination schedules recommended by the American Association of Equine Practices, see: http://www.aaep.org/vaccination_guidelines.htm

Culiseta melanura Population Graphs

Coastal



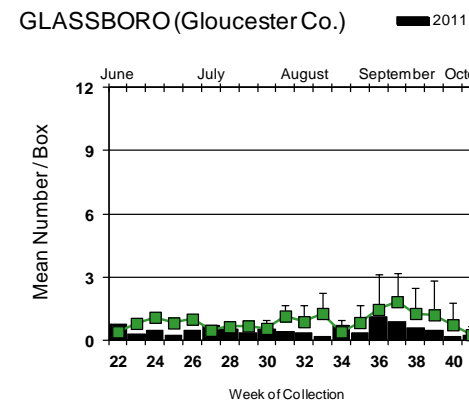
Inland



Cs. melanura populations continue to be below historical values except for the Centerton site.

↓ = 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) 3(LA) 3(MI) 1(MS) 12(NY) 2(NC) 1(VT-emu) 31(WI-2 alpaca)
- mosquito pools: 2(LA) 79(MA) 40(NY) 1(NC)
- sentinel: 25 chickens/19 wild bird (FL) 3(NC) 9(VA)
- human: 2(MA, 1 visitor from MO) 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		1
Alaska					
Arizona	0	127/140	17	2/4	29/30
Arkansas					1
California	587/617	1974/2002	296/311	10/12	104/113
Colorado	0	59		0	6/7
Connecticut		162/163			9
Delaware	13/16		6/8	1	1
DC	5	31			1
Florida	1 flavi		84/110	1/3	22/23
Georgia	1	374		2	8
Hawaii					
Idaho		2			1
Illinois	20/21	1035/1049	0	0	23/25
Indiana	1	182		3	6
Iowa		3	14	1	7/9
Kansas					
Kentucky		2/4		1	3
Louisiana		239	3		8
Maine		0		0	0
Maryland	6	17		1	16
Mass.		274/275		1	4/5
Michigan	10/13	21	0	0	23/28
Minnesota	4	1/3		1	1
Mississippi		31		1	47
Missouri		116		0	5/7

	Birds	Mosquito Pools	Sentinels	Horses	Humans
Montana					
Nebraska	2	53		1	23/24
Nevada	2	8		1	13
New Hampshire		8/9		0	0
New Jersey	33/34	510/528		1	4/5
New Mexico					2/3
New York		446/450		3*	36
North Carolina					2
North Dakota	0	0		5*	4
Ohio		570/577		4	15/16
Oklahoma		1			
Oregon	0	3	0	2	0
Pennsylvania	46	1468/1484		10*	5
Rhode Island		2		0	1
South Carolina	0	5		0	0
South Dakota		2		0	1
Tennessee	0	586		3	14/16
Texas	11/12	651/655		2/3	20
Utah		23	0	1	3
Vermont	12	3		0	2
Virginia		47	1/3	1	7
Washington	0	5		0	0
West Virginia	0	18		0	1
Wisconsin	13	0		3	1
Wyoming		10		0	1/3

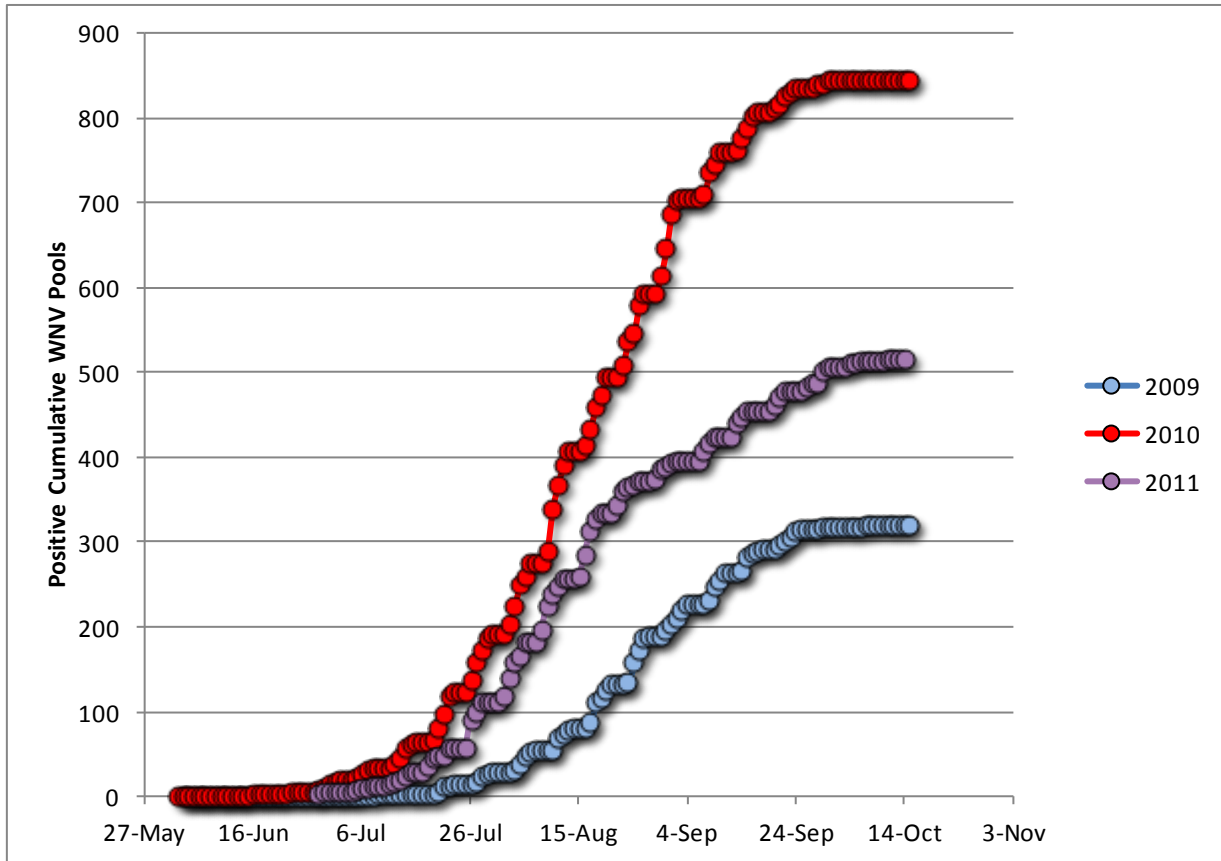
* Can include other species (e.g., dogs, cows) reported positive.

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 14 Oct. 2011

Species	Pools	Mosquitoes	Positives	MFIR
<i>Aedes albopictus</i>	1160	7649	6	0.784
<i>Aedes atlanticus</i>	18	140		
<i>Aedes atropalpus</i>	3	4		
<i>Aedes aurifer</i>	1	2		
<i>Aedes canadensis canadensis</i>	192	5395		
<i>Aedes cantator</i>	79	424		
<i>Aedes cinereus</i>	3	5		
<i>Aedes grossbecki</i>	3	8		
<i>Aedes japonicus</i>	612	3598	3	0.834
<i>Aedes mitchellae</i>	2	29		
<i>Aedes sollicitans</i>	60	372		
<i>Aedes sticticus</i>	7	71		
<i>Aedes stimulans</i>	5	47		
<i>Aedes taeniorhynchus</i>	70	1187		
<i>Aedes thibaulti</i>	1	1		
<i>Aedes triseriatus</i>	334	747		
<i>Aedes trivittatus</i>	50	479		
<i>Aedes vexans</i>	221	2359		
<i>Anopheles barberi</i>	7	7		
<i>Anopheles bradleyi</i>	119	1573	1	0.636
<i>Anopheles crucians</i>	8	77		
<i>Anopheles punctipennis</i>	115	529		
<i>Anopheles quadrimaculatus</i>	159	885		
<i>Anopheles walkeri</i>	2	14		
<i>Coquillettidia perturbans</i>	128	1700		
<i>Culex erraticus</i>	243	9938		
<i>Culex pipiens</i>	1114	18332	80	4.364
<i>Culex restuans</i>	697	3734	11	2.946
<i>Culex salinarius</i>	217	2419	1	0.413
<i>Culex spp.</i>	3157	116692	413	3.539
<i>Culex territans</i>	6	26		
<i>Culiseta inornata</i>	2	3		
<i>Culiseta melanura</i>	567	6723	12	1.785
<i>Orthopodomyia signifera</i>	5	5		
<i>Psorophora ciliata</i>	6	63		
<i>Psorophora columbiae</i>	23	253		
<i>Psorophora ferox</i>	81	1197	1	0.835
<i>Psorophora howardii</i>	6	42		
<i>Uranotaenia sapphirina</i>	10	117		
State Total	9,493	186,846	528	2.826

Remarks: To date, there have been 186,846 mosquitoes tested in 9,493 pools from 38 species. Currently, 528 positive pools have been detected as of last week in *Culex pipiens*, *Cx. restuans*, *Cx. salinarius*, Mixed *Culex*, *Culiseta melanura*, *Aedes albopictus*, *Aedes japonicus*, *Anopheles bradleyi* and *Psorophora ferox*. Dates for all positive samples were collected were between 28 June and 14 October.



Positive pools continue to be detected in New Jersey, but the rate continues to decrease.

Humans, Horses and Wild Birds: There have been five human cases reported by the Department of Health and Senior Services. These include one case each in Mercer (probable), Middlesex (confirmed), Morris (probable), Ocean and Union (probable) counties. See <http://www.state.nj.us/health/cd/westnile/techinfo.shtml>

One positive horse has been reported, with date of onset 10 October, from Monmouth County. The 11 year old mare was not vaccinated.

Bird testing began in mid-April. WNV has been detected in 41 birds from the 116 birds that have been tested. Species include American Crow *Corvus brachyrhynchos* (14/16), Blue Jays *Cyanocitta cristata* (8/15), Fish Crows *Corvus ossifragus* (8/25) unknown *Corvus* (7/11), Hawk/raptor (0/4) and Other (non-corvid) species (4/45). Positive birds were from Atlantic, Burlington, Gloucester, Mercer, Monmouth, Morris, Ocean, Somerset, Sussex, Union and Warren counties. Counties submitting birds are Atlantic, Burlington, Cape May, Cumberland, Gloucester, Mercer, Monmouth, Morris, Ocean, Salem, Somerset, Sussex, Union 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
528 / 9,493 (0.056)	836 / 5,659 (0.148)
2011 Positive Birds to date / Total Birds Submitted	This time last year
41 / 116 (0.353)	129 / 244 (0.529)

WNV Results by County through 14 October 2011

County	Species	Pools	Mosquitoes	Positives	MFIR
Atlantic		229	6182	4	0.647
	<i>Aedes albopictus</i>	21	539		
	<i>Aedes canadensis canadensis</i>	8	194		
	<i>Aedes cantator</i>	5	40		
	<i>Aedes japonicus</i>	7	24		

<i>Aedes sticticus</i>	5	48		
<i>Aedes sollicitans</i>	1	6		
<i>Aedes taeniorhynchus</i>	8	123		
<i>Aedes thibaulti</i>	1	1		
<i>Aedes triseriatus</i>	8	17		
<i>Aedes trivittatus</i>	2	10		
<i>Aedes vexans</i>	19	317		
<i>Anopheles bradleyi</i>	6	48		
<i>Anopheles punctipennis</i>	3	3		
<i>Anopheles quadrimaculatus</i>	1	2		
<i>Coquillettidia perturbans</i>	5	63		
<i>Culex erraticus</i>	7	191		
<i>Culex restuans</i>	1	1		
<i>Culex</i> spp.	86	3827	3	0.784
<i>Culiseta melanura</i>	19	205		
<i>Orthopodomyia signifera</i>	1	1		
<i>Psorophora columbiae</i>	1	2		
<i>Psorophora ferox</i>	12	513	1	1.949
<i>Psorophora howardii</i>	2	7		
Bergen	190	12750	107	8.392
<i>Aedes albopictus</i>	5	15		
<i>Aedes japonicus</i>	10	64	1	15.625
<i>Aedes triseriatus</i>	1	1		
<i>Aedes vexans</i>	5	140		
<i>Anopheles punctipennis</i>	2	5		
<i>Culex</i> spp.	167	12525	106	8.463
Burlington	687	21111	35	1.658
<i>Aedes albopictus</i>	39	449		
<i>Aedes atlanticus</i>	6	60		
<i>Aedes atropalpus</i>	3	4		
<i>Aedes canadensis canadensis</i>	44	1986		
<i>Aedes cantator</i>	3	72		
<i>Aedes grossbecki</i>	1	3		
<i>Aedes japonicus</i>	16	76		
<i>Aedes mitchellae</i>	2	29		
<i>Aedes sollicitans</i>	8	130		
<i>Aedes sticticus</i>	2	30		
<i>Aedes taeniorhynchus</i>	9	69		
<i>Aedes triseriatus</i>	14	91		
<i>Aedes trivittatus</i>	1	7		
<i>Aedes vexans</i>	22	839		
<i>Anopheles bradleyi</i>	13	448	1	2.232
<i>Anopheles crucians</i>	7	75		
<i>Anopheles punctipennis</i>	9	37		
<i>Anopheles quadrimaculatus</i>	1	5		
<i>Coquillettidia perturbans</i>	29	805		
<i>Culex erraticus</i>	12	533		
<i>Culex pipiens</i>	19	312	2	6.410
<i>Culex restuans</i>	11	56		
<i>Culex salinarius</i>	24	309		
<i>Culex</i> spp.	264	11910	27	2.267
<i>Culex territans</i>	3	23		
<i>Culiseta melanura</i>	103	2337	5	2.139
<i>Psorophora ciliata</i>	1	35		

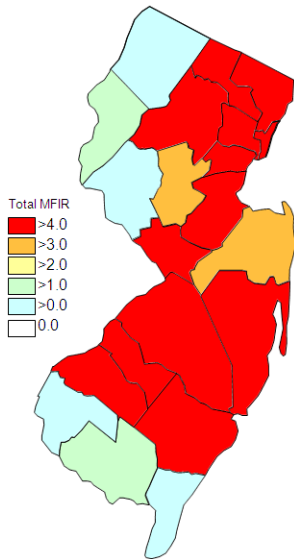
<i>Psorophora columbiae</i>	7	148		
<i>Psorophora ferox</i>	7	117		
<i>Psorophora howardii</i>	4	35		
<i>Uranotaenia sapphirina</i>	3	81		
Camden	272	6491	19	2.927
<i>Aedes albopictus</i>	53	313		
<i>Aedes japonicus</i>	32	72		
<i>Aedes triseriatus</i>	4	8		
<i>Aedes vexans</i>	1	1		
<i>Anopheles punctipennis</i>	3	3		
<i>Anopheles quadrimaculatus</i>	1	2		
<i>Culex erraticus</i>	2	7		
<i>Culex pipiens</i>	3	135		
<i>Culex</i> spp.	152	5468	18	3.292
<i>Culiseta melanura</i>	21	482	1	2.075
Cape May	2865	23749	3	0.126
<i>Aedes albopictus</i>	424	1020		
<i>Aedes canadensis canadensis</i>	31	513		
<i>Aedes cantator</i>	45	150		
<i>Aedes japonicus</i>	113	192		
<i>Aedes sollicitans</i>	27	103		
<i>Aedes taeniorhynchus</i>	35	513		
<i>Aedes triseriatus</i>	138	205		
<i>Aedes trivittatus</i>	1	1		
<i>Aedes vexans</i>	33	72		
<i>Anopheles bradleyi</i>	83	644		
<i>Anopheles punctipennis</i>	12	14		
<i>Anopheles quadrimaculatus</i>	83	399		
<i>Coquillettidia perturbans</i>	26	324		
<i>Culex erraticus</i>	180	8517		
<i>Culex pipiens</i>	632	6114	1	0.164
<i>Culex restuans</i>	597	2916	1	0.343
<i>Culex salinarius</i>	165	910	1	1.099
<i>Culex</i> spp.	119	468		
<i>Culiseta melanura</i>	115	663		
<i>Orthopodomyia signifera</i>	4	4		
<i>Psorophora ferox</i>	1	6		
<i>Uranotaenia sapphirina</i>	1	1		
Cumberland	254	3996		
<i>Aedes albopictus</i>	27	95		
<i>Aedes atlanticus</i>	3	17		
<i>Aedes canadensis canadensis</i>	13	147		
<i>Aedes cantator</i>	3	81		
<i>Aedes japonicus</i>	11	41		
<i>Aedes sollicitans</i>	4	24		
<i>Aedes taeniorhynchus</i>	6	337		
<i>Aedes triseriatus</i>	14	26		
<i>Aedes vexans</i>	14	99		
<i>Anopheles bradleyi</i>	7	416		
<i>Anopheles punctipennis</i>	6	13		
<i>Anopheles quadrimaculatus</i>	5	13		
<i>Coquillettidia perturbans</i>	13	144		
<i>Culex erraticus</i>	13	72		

	<i>Culex pipiens</i>	8	25		
	<i>Culex restuans</i>	4	17		
	<i>Culex salinarius</i>	17	1160		
	<i>Culex</i> spp.	40	890		
	<i>Culex territans</i>	2	2		
	<i>Culiseta melanura</i>	38	320		
	<i>Psorophora ciliata</i>	1	8		
	<i>Psorophora columbiae</i>	1	23		
	<i>Psorophora ferox</i>	4	26		
Essex		535	7765	16	2.061
	<i>Aedes albopictus</i>	109	504	1	1.984
	<i>Aedes canadensis canadensis</i>	2	8		
	<i>Aedes grossbecki</i>	2	5		
	<i>Aedes japonicus</i>	83	707	1	1.414
	<i>Aedes sticticus</i>	1	21		
	<i>Aedes stimulans</i>	4	46		
	<i>Aedes triseriatus</i>	42	108		
	<i>Aedes vexans</i>	30	126		
	<i>Anopheles punctipennis</i>	3	4		
	<i>Culex</i> spp.	255	6217	14	2.252
	<i>Psorophora ferox</i>	4	19		
Gloucester		679	12485	48	3.845
	<i>Aedes albopictus</i>	82	1098	3	2.732
	<i>Aedes canadensis canadensis</i>	2	23		
	<i>Aedes japonicus</i>	24	174		
	<i>Aedes triseriatus</i>	7	19		
	<i>Aedes vexans</i>	19	334		
	<i>Anopheles punctipennis</i>	22	306		
	<i>Anopheles quadrimaculatus</i>	34	313		
	<i>Coquillettidia perturbans</i>	14	79		
	<i>Culex pipiens</i>	312	8701	43	4.942
	<i>Culiseta melanura</i>	150	1282	2	1.560
	<i>Psorophora ciliata</i>	1	8		
	<i>Psorophora ferox</i>	12	148		
Hudson		214	11230	37	3.295
	<i>Culex</i> spp.	214	11230	37	3.295
Hunterdon		250	11462	39	3.403
	<i>Culex</i> spp.	250	11462	39	3.43
Mercer		357	4469	44	9.846
	<i>Aedes albopictus</i>	105	668	1	1.497
	<i>Aedes japonicus</i>	54	163		
	<i>Aedes triseriatus</i>	12	30		
	<i>Aedes vexans</i>	4	11		
	<i>Culex erraticus</i>	3	7		
	<i>Culex pipiens</i>	128	2921	33	11.298
	<i>Culex restuans</i>	45	655	10	15.267
	<i>Culex salinarius</i>	3	7		
	<i>Culex</i> spp.	1	2		
	<i>Psorophora ciliata</i>	1	4		
	<i>Psorophora ferox</i>	1	1		

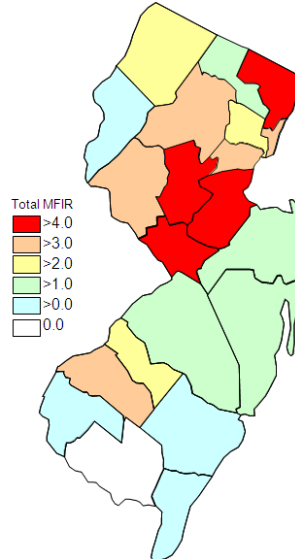
Middlesex	246	8693	55	6.327
<i>Aedes albopictus</i>	19	160		
<i>Aedes japonicus</i>	24	248		
<i>Aedes triseriatus</i>	1	5		
<i>Culex</i> spp.	202	8280	55	6.643
Monmouth	468	4196	7	1.68
<i>Aedes albopictus</i>	62	332		
<i>Aedes atlanticus</i>	1	2		
<i>Aedes canadensis canadensis</i>	28	428		
<i>Aedes cantator</i>	10	33		
<i>Aedes japonicus</i>	50	160		
<i>Aedes sollicitans</i>	9	33		
<i>Aedes taeniorhynchus</i>	10	141		
<i>Aedes triseriatus</i>	31	79		
<i>Aedes trivittatus</i>	18	113		
<i>Aedes vexans</i>	15	44		
<i>Anopheles barberi</i>	5	5		
<i>Anopheles crucians</i>	1	2		
<i>Anopheles punctipennis</i>	15	43		
<i>Anopheles quadrimaculatus</i>	4	6		
<i>Coquillettidia perturbans</i>	6	29		
<i>Culex erraticus</i>	3	5		
<i>Culex pipiens</i>	3	17		
<i>Culex restuans</i>	6	22		
<i>Culex salinarius</i>	1	16		
<i>Culex</i> spp.	131	2214	7	3.162
<i>Culex territans</i>	1	1		
<i>Culiseta melanura</i>	41	374		
<i>Psorophora ciliata</i>	1	1		
<i>Psorophora columbiae</i>	3	17		
<i>Psorophora ferox</i>	12	78		
<i>Uranotaenia sapphirina</i>	1	1		
Morris	230	7695	25	3.249
<i>Aedes albopictus</i>	2	14		
<i>Aedes japonicus</i>	12	187		
<i>Coquillettidia perturbans</i>	2	65		
<i>Culex</i> spp.	214	7429	25	3.365
Ocean	524	6282	10	1.592
<i>Aedes albopictus</i>	99	1563		
<i>Aedes atlanticus</i>	8	61		
<i>Aedes canadensis canadensis</i>	57	2066		
<i>Aedes cantator</i>	10	42		
<i>Aedes japonicus</i>	45	94		
<i>Aedes sollicitans</i>	4	29		
<i>Aedes sticticus</i>	1	1		
<i>Aedes taeniorhynchus</i>	2	4		
<i>Aedes triseriatus</i>	20	32		
<i>Aedes trivittatus</i>	12	58		
<i>Aedes vexans</i>	26	107		
<i>Anopheles bradleyi</i>	7	14		
<i>Anopheles punctipennis</i>	17	36		
<i>Anopheles quadrimaculatus</i>	5	6		

<i>Coquillettidia perturbans</i>	20	105		
<i>Culex erraticus</i>	2	2		
<i>Culex restuans</i>	13	17		
<i>Culex salinarius</i>	7	17		
<i>Culex</i> spp.	105	1697	8	4.714
<i>Culiseta melanura</i>	37	94	2	21.277
<i>Psorophora ciliata</i>	1	7		
<i>Psorophora columbiae</i>	2	2		
<i>Psorophora ferox</i>	22	226		
<i>Uranotaenia sapphirina</i>	2	2		
Passaic	119	2227	4	1.796
<i>Aedes albopictus</i>	15	132		
<i>Aedes canadensis canadensis</i>	3	10		
<i>Aedes japonicus</i>	19	175		
<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.	68	1842	4	2.172
Salem	304	3553	2	0.563
<i>Aedes albopictus</i>	30	59		
<i>Aedes aurifer</i>	1	2		
<i>Aedes canadensis canadensis</i>	4	20		
<i>Aedes cantator</i>	3	6		
<i>Aedes japonicus</i>	28	61		
<i>Aedes sollicitans</i>	3	5		
<i>Aedes sticticus</i>	1	1		
<i>Aedes triseriatus</i>	23	47		
<i>Aedes vexans</i>	19	137		
<i>Anopheles barberi</i>	1	1		
<i>Anopheles bradleyi</i>	3	3		
<i>Anopheles punctipennis</i>	10	15		
<i>Anopheles quadrimaculatus</i>	18	105		
<i>Coquillettidia perturbans</i>	8	22		
<i>Culex erraticus</i>	21	604		
<i>Culex pipiens</i>	6	12		
<i>Culex restuans</i>	14	31		
<i>Culex</i> spp.	65	1425		
<i>Culiseta inornata</i>	1	2		
<i>Culiseta melanura</i>	36	934	2	2.141
<i>Psorophora columbiae</i>	9	61		
Somerset	227	3095	17	5.493
<i>Aedes albopictus</i>	21	89		
<i>Aedes japonicus</i>	16	141		
<i>Aedes triseriatus</i>	7	36		
<i>Aedes trivittatus</i>	4	112		
<i>Aedes vexans</i>	3	45		
<i>Anopheles punctipennis</i>	3	10		
<i>Coquillettidia perturbans</i>	1	1		
<i>Culex</i> spp.	169	2605	17	6.526
<i>Psorophora ferox</i>	3	56		

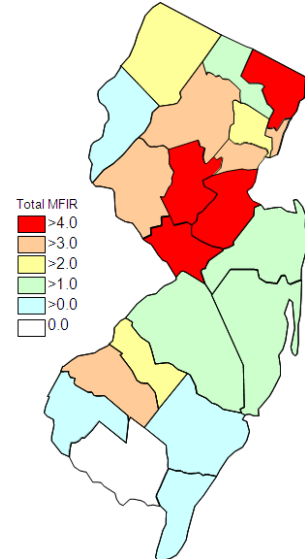
Sussex	313	9264	24	2.591
<i>Aedes japonicus</i>	56	956	1	1.046
<i>Coquillettidia perturbans</i>	1	57		
<i>Culex pipiens</i>	3	95	1	10.526
<i>Culex restuans</i>	6	19		
<i>Culex</i> spp.	241	8106	22	2.714
<i>Culiseta melanura</i>	6	31		
Union	176	4832	17	3.518
<i>Aedes albopictus</i>	47	599	1	1.669
<i>Aedes japonicus</i>	3	14		
<i>Culex</i> spp.	126	4219	16	3.792
Warren	354	15319	15	0.979
<i>Aedes cinereus</i>	3	5		
<i>Aedes japonicus</i>	9	49		
<i>Aedes sticticus</i>	1	12		
<i>Aedes stimulans</i>	1	1		
<i>Aedes triseriatus</i>	5	15		
<i>Aedes trivittatus</i>	8	146		
<i>Aedes vexans</i>	10	83		
<i>Anopheles barberi</i>	1	1		
<i>Anopheles punctipennis</i>	9	39		
<i>Anopheles quadrimaculatus</i>	7	34		
<i>Anopheles walkeri</i>	2	14		
<i>Coquillettidia perturbans</i>	2	3		
<i>Culex</i> spp.	288	14876	15	1.008
<i>Culiseta inornata</i>	1	1		
<i>Culiseta melanura</i>	1	1		
<i>Psorophora ferox</i>	3	7		
<i>Uranotaenia sapphirina</i>	3	32		
9,493	8,892	186,846	528	2.826



Cumulative WNV activity in 2010.



WNV activity to 14 October 2011.



WNV activity last week, 2011.

Saint Louis Encephalitis (SLE) through 14 October 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		659	20993		
	<i>Aedes albopictus</i>	37	447		
	<i>Aedes atlanticus</i>	6	60		
	<i>Aedes atropalpus</i>	3	4		
	<i>Aedes canadensis canadensis</i>	42	1984		
	<i>Aedes cantator</i>	3	72		
	<i>Aedes grossbecki</i>	1	3		
	<i>Aedes japonicus</i>	16	76		
	<i>Aedes mithcellae</i>	2	29		
	<i>Aedes sollicitans</i>	7	129		
	<i>Aedes sticticus</i>	2	30		
	<i>Aedes taeniorhynchus</i>	9	69		
	<i>Aedes triseriatus</i>	14	91		
	<i>Aedes trivittatus</i>	1	7		
	<i>Aedes vexans</i>	22	839		
	<i>Anopheles bradleyi</i>	11	445		
	<i>Anopheles crucians</i>	7	75		
	<i>Anopheles punctipennis</i>	8	36		
	<i>Anopheles quadrimaculatus</i>	1	5		
	<i>Coquillettidia perturbans</i>	29	805		
	<i>Culex erraticus</i>	12	533		
	<i>Culex pipiens</i>	19	312		
	<i>Culex restuans</i>	9	53		
	<i>Culex salinarius</i>	23	308		
	<i>Culex spp.</i>	263	11909		

	<i>Culex erraticus</i>	3	23		
	<i>Culiseta melanura</i>	87	2233		
	<i>Psorophora ciliata</i>	1	35		
	<i>Psorophora columbiae</i>	7	148		
	<i>Psorophora ferox</i>	7	117		
	<i>Psorophora howardii</i>	4	35		
	<i>Uranotaenia sapphirina</i>	3	81		
Camden		251	6009		
	<i>Aedes albopictus</i>	53	313		
	<i>Aedes japonicus</i>	32	72		
	<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 pipiens</i>	3	135		
	<i>Culex</i> spp.	152	5468		
Cumberland		1	1		
	<i>Aedes triseriatus</i>	1	1		
Essex		535	7765		
	<i>Aedes albopictus</i>	109	504		
	<i>Aedes canadensis canadensis</i>	2	8		
	<i>Aedes grossbecki</i>	2	5		
	<i>Aedes japonicus</i>	83	707		
	<i>Aedes sticticus</i>	1	21		
	<i>Aedes stimulans</i>	4	46		
	<i>Aedes triseriatus</i>	42	108		
	<i>Aedes vexans</i>	30	126		
	<i>Anopheles punctipennis</i>	3	4		
	<i>Culex</i> spp.	255	6217		
	<i>Psorophora ferox</i>	4	19		
Hudson		199	10456		
	<i>Culex</i> spp.	199	10456		
Grand Total		1,645	45,224		

La Crosse Encephalitis (LAC) through 14 October 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		129	193		
	<i>Aedes japonicus</i>	1	1		
	<i>Aedes triseriatus</i>	128	192		
Cumberland		16	30		
	<i>Aedes triseriatus</i>	16	30		
Salem		9	18		
	<i>Aedes triseriatus</i>	9	18		
Warren		1	9		
	<i>Aedes triseriatus</i>	1	9		
Grand Total		155	250		