

VECTOR SURVEILLANCE IN NEW JERSEY

EEE, WNV, SLE and LAC

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CDC WEEK 38: September 18 to September 24, 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	2.24	0.92	80 [†]	14	0	
Corbin City (Atlantic County)	Coastal	1.20	1.28	140 [†]	14	0	
Dennisville (Cape May County)	Coastal	3.85	0.06	215	17	0	
Winslow (Camden County)	Inland	1.26	0.20	467	19	0	
Centerton (Salem County)	Inland	2.67	0.68	573	20	0	
Turkey Swamp (Monmouth County)	Inland	0.78	0.76	240 [†]	33	0	
Glassboro (Gloucester County)	Inland	1.27	0.56	432	18	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 2064 mosquitoes from 132 pools. Samples from Green Bank, Corbin City and Turkey Swamp will be analyzed later this week.

Three hundred three additional pools containing 2,833 *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	1473 (56)	0	
Cape May	CO2, Gravid, RB	319 (77)	0	
Cumberland	CO2, Gravid, RB	268 (32)	0	
Gloucester	RB	681 (105)	0	
Ocean	CO2, Gravid, RB	74 (30)	0	
Salem	BA, Gravid	4 (2)	0	
Sussex	CO2	14 (1)	0	
TOTAL		2833 (303)	0	

Species other than <i>Cs. melanura</i>	Pools	Mosquitoes	Positives	MFIR
<i>Aedes albopictus</i>	50	343		
<i>Aedes atlanticus</i>	6	60		
<i>Aedes atropalpus</i>	3	4		
<i>Aedes canadensis canadensis</i>	23	953		
<i>Aedes cantator</i>	41	224		
<i>Aedes grossbecki</i>	1	3		
<i>Aedes japonicus</i>	23	83		
<i>Aedes mitchellae</i>	1	28		
<i>Aedes sollicitans</i>	36	236		
<i>Aedes sticticus</i>	1	3		
<i>Aedes taeniorhynchus</i>	22	411		
<i>Aedes thibaulti</i>	1	1		
<i>Aedes triseriatus</i>	17	86		
<i>Aedes trivittatus</i>	1	7		
<i>Aedes vexans</i>	18	605		
<i>Anopheles barberi</i>	2	2		
<i>Anopheles bradleyi</i>	74	918		
<i>Anopheles crucians</i>	2	41		
<i>Anopheles punctipennis</i>	30	301		
<i>Anopheles quadrimaculatus</i>	28	268		
<i>Coquillettidia perturbans</i>	86	1355		
<i>Culex erraticus</i>	185	8974		
<i>Culex pipiens</i>	406	2990		
<i>Culex restuans</i>	35	71		
<i>Culex salinarius</i>	168	1133		
<i>Culex</i> spp.	308	10043		
<i>Culex territans</i>	1	14		
<i>Psorophora ciliata</i>	1	35		
<i>Psorophora columbiae</i>	4	27		
<i>Psorophora ferox</i>	3	62		
<i>Psorophora howardii</i>	4	35		
<i>Uranotaenia sapphirina</i>	1	75		
State Total	1582	29,391		

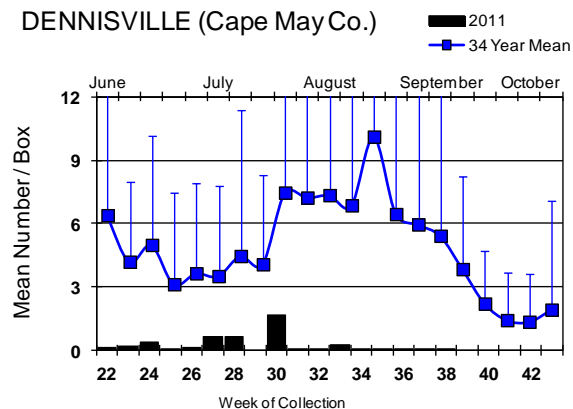
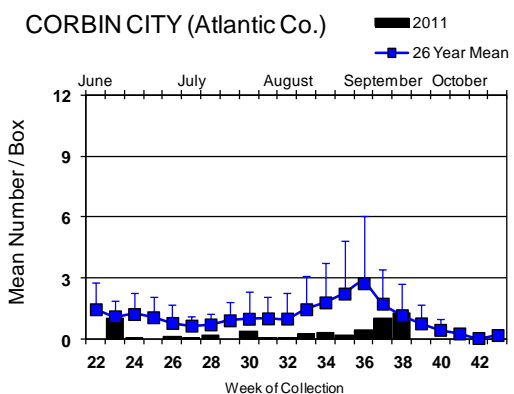
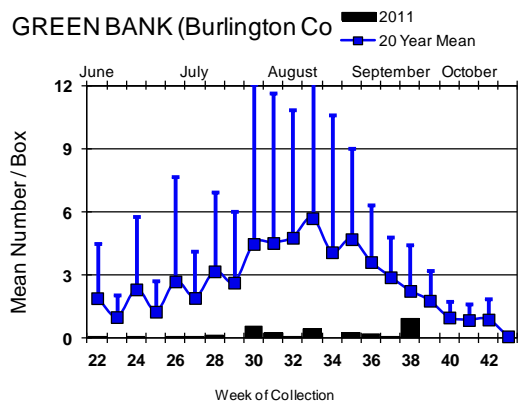
The table to the left indicates non-*Cs. melanura* mosquitoes tested for EEE. An addition 31 species of mosquitoes have been tested with no detection of EEE.

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

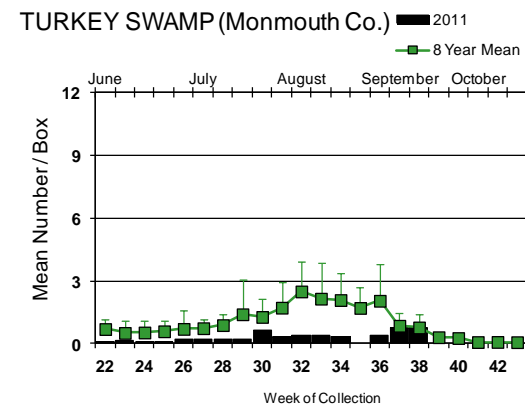
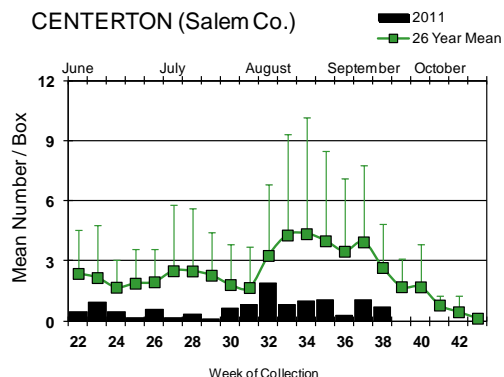
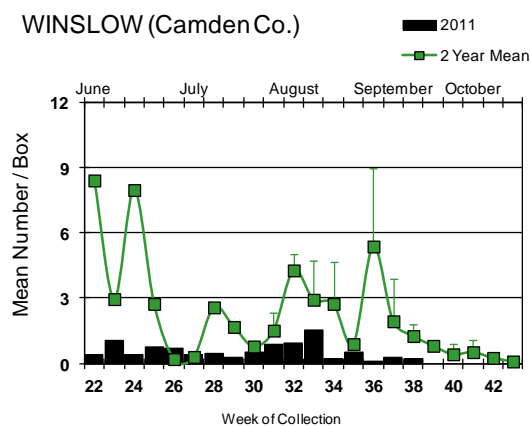
Horses and Vaccinations: The fate of unvaccinated equids reinforces the necessity of maintaining a vaccination schedule for arboviruses. For vaccination schedules recommended by the American Association of Equine Practices, see: http://www.aaep.org/vaccination_guidelines.htm

Culiseta melanura Population Graphs

Coastal



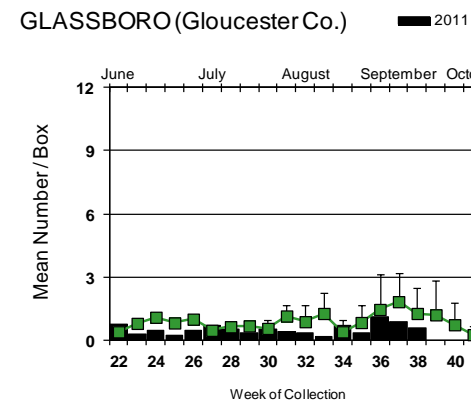
Inland



Both Green Bank and Corbin City showed an increase from the previous week while all other sites were either at or below the previous week. All sites except Corbin City were below historical values, continuing the trend observed for much of the season. Light trap data in the Pinelands indicate a buildup of the second generation of *Culiseta 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) 3(LA) 1(MI) 1(MS) 11(NY) 1(NC) 1(VT-emu) 25(WI-2 alpaca)
- mosquito pools: 2(LA) 75(MA) 33(NY) 1(NC)
- sentinel: 19 chickens/19 wild bird (FL) 3(NC) 2(VA)
- human: 1(MA+1out-of-state suspect case) 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	123/124	11	2	27/30
Arkansas					
California	398/463	1651/1806	167/217	7/8	48/67
Colorado	0	59		0	5/6
Connecticut		141/152			6/8
Delaware	12/13		5/6	1	1
DC	5	22/31			
Florida	1 flavi		71/73	1	15/17
Georgia	1	349		1	3/4
Hawaii					
Idaho		2			1
Illinois	16/19	809/937	0	0	7/10
Indiana	1	112/138		2	4/6
Iowa		2	14	1	2/5
Kansas					
Kentucky		2/4		1	
Louisiana		216/239	1/2		4/6
Maine		0		0	0
Maryland	3/6	13/14			11/12
Mass.		249/262		1	1/2
Michigan	8/10	9/17	0	0	6/15
Minnesota	3/4	1/3		1	
Mississippi		31		1	33/39
Missouri		100/109		0	5

	Birds	Mosquito Pools	Sentinels	Horses	Humans
Montana					
Nebraska	2	33/46		1	11/26
Nevada	2	8		1	9/10
New Hampshire		6/7		0	0
New Jersey	24/25	427/457		0	4
New Mexico					1/2
New York		417/427		2/3*	12/27
North Carolina				1	1
North Dakota	0	0		5*	4
Ohio		515/570		3	6/11
Oklahoma		1			
Oregon	0	2	0	1	0
Pennsylvania	37/43	1169/1334		8/10*	4
Rhode Island		1		0	1
South Carolina	0	1		0	0
South Dakota		2		0	1
Tennessee	0	586/775		0	5/8
Texas	8/11	618/633		2	20
Utah		23	0	1	2
Vermont	7/9	2/3		0	1/2
Virginia		47	1	1	2/5
Washington	0	3/4		0	0
West Virginia	0	1/11		0	1
Wisconsin	5	0		2	0
Wyoming		10		0	1

* 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 20 Sept. 2011

Species	Pools	Mosquitoes	Positives	MFIR
<i>Aedes albopictus</i>	925	6240	6	0.962
<i>Aedes atlanticus</i>	14	90		
<i>Aedes atropalpus</i>	3	4		
<i>Aedes aurifer</i>	1	2		
<i>Aedes canadensis canadensis</i>	91	1568		
<i>Aedes cantator</i>	63	266		
<i>Aedes cinereus</i>	3	5		
<i>Aedes grossbecki</i>	3	8		
<i>Aedes japonicus</i>	470	2782	3	1.078
<i>Aedes mitchellae</i>	1	28		
<i>Aedes sollicitans</i>	56	351		
<i>Aedes sticticus</i>	2	24		
<i>Aedes stimulans</i>	5	47		
<i>Aedes taeniorhynchus</i>	67	1035		
<i>Aedes thibaulti</i>	1	1		
<i>Aedes triseriatus</i>	285	652		
<i>Aedes trivittatus</i>	39	401		
<i>Aedes vexans</i>	169	1611		
<i>Anopheles barberi</i>	7	7		
<i>Anopheles bradleyi</i>	91	1146	1	0.873
<i>Anopheles crucians</i>	2	41		
<i>Anopheles punctipennis</i>	91	452		
<i>Anopheles quadrimaculatus</i>	125	704		
<i>Anopheles walkeri</i>	1	7		
<i>Coquillettidia perturbans</i>	121	1661		
<i>Culex erraticus</i>	212	9662		
<i>Culex pipiens</i>	895	15462	75	4.851
<i>Culex restuans</i>	555	3151	11	3.491
<i>Culex salinarius</i>	197	2333	1	0.429
<i>Culex spp.</i>	2690	102176	350	3.425
<i>Culex territans</i>	3	16		
<i>Culiseta inornata</i>	2	3		
<i>Culiseta melanura</i>	447	4944	9	1.820
<i>Orthopodomyia signifera</i>	5	5		
<i>Psorophora ciliata</i>	6	63		
<i>Psorophora columbiae</i>	15	124		
<i>Psorophora ferox</i>	50	817	1	1.224
<i>Psorophora howardii</i>	5	39		
<i>Uranotaenia sapphirina</i>	6	109		
State Total	7,724	158,037	457	2.892

Remarks: To date, there have been 158,037 mosquitoes tested in 7,724 pools from 38 species. Currently, 457 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, most recently, *Psorophora ferox*. This species is a relative large mosquito and is a multivoltine floodwater species. The distribution for this species is throughout much of the New World and it may potentially be a vector of Venezuelan Equine Encephalitis. *Psorophora ferox* is a very persistent, painful biter. Only one pool has previously been found to be positive for WNV in this species: in Gloucester County, 2003. Current

positive pool is from Atlantic County. Dates for all positive samples were collected were between 28 June and 20 September.

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

No positive horse cases have been reported.

Bird testing began in mid-April. WNV has been detected in twenty-five birds from the 88 birds that have been tested. Species include American Crow *Corvus brachyrhynchos* (10/12), Blue Jays *Cyanocitta cristata* (5/12), Fish Crows *Corvus ossifragus* (5/21) unknown *Corvus* (6/9), Hawk (0/3) and Other (non-corvid) species (4/44). Positive birds were from Atlantic, Burlington, Gloucester, Mercer, Monmouth, Ocean, Somerset and Warren counties. Counties submitting birds are Atlantic, Burlington, Cape May, Cumberland, Gloucester, Mercer, Monmouth, Morris, Ocean, Salem, Somerset 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
457 / 7,724 (0.059)	827 / 5,182 (0.160)
2011 Positive Birds to date / Total Birds Submitted	This time last year
30 / 101 (0.297)	125 / 230 (0.543)

WNV Results by County through 20 September 2011

County	Species	Pools	Mosquitoes	Positives	MFIR
Atlantic		175	5012	3	0.599
	<i>Aedes albopictus</i>	15	393		
	<i>Aedes canadensis canadensis</i>	3	15		
	<i>Aedes cantator</i>	3	20		
	<i>Aedes japonicus</i>	5	20		
	<i>Aedes sollicitans</i>	5	48		
	<i>Aedes taeniorhynchus</i>	8	123		
	<i>Aedes thibaulti</i>	1	1		
	<i>Aedes triseriatus</i>	6	14		
	<i>Aedes trivittatus</i>	1	8		
	<i>Aedes vexans</i>	14	208		
	<i>Anopheles bradleyi</i>	3	16		
	<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.	75	3446	2	0.580
	<i>Culiseta melanura</i>	14	130		
	<i>Orthopodomyia signifera</i>	1	1		
	<i>Psorophora columbiae</i>	1	2		
	<i>Psorophora ferox</i>	7	311	1	3.215
	<i>Psorophora howardii</i>	1	4		
Bergen		145	9929	84	8.460
	<i>Aedes albopictus</i>	4	11		
	<i>Aedes japonicus</i>	6	40	1	25.000
	<i>Aedes vexans</i>	4	126		
	<i>Anopheles punctipennis</i>	1	2		
	<i>Culex</i> spp.	130	9750	83	8.513

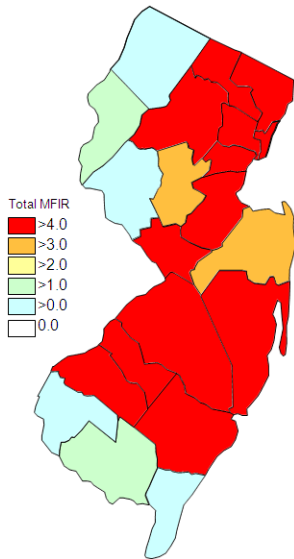
Burlington	504	16011	28	1.749
<i>Aedes albopictus</i>	32	304		
<i>Aedes atlanticus</i>	6	60		
<i>Aedes atropalpus</i>	3	4		
<i>Aedes canadensis canadensis</i>	20	942		
<i>Aedes cantator</i>	2	63		
<i>Aedes grossbecki</i>	1	3		
<i>Aedes japonicus</i>	12	61		
<i>Aedes mitchellae</i>	1	28		
<i>Aedes sollicitans</i>	7	129		
<i>Aedes sticticus</i>	1	3		
<i>Aedes taeniorhynchus</i>	9	69		
<i>Aedes triseriatus</i>	13	81		
<i>Aedes trivittatus</i>	1	7		
<i>Aedes vexans</i>	16	603		
<i>Anopheles bradleyi</i>	6	336	1	2.976
<i>Anopheles crucians</i>	2	41		
<i>Anopheles punctipennis</i>	5	30		
<i>Anopheles quadrimaculatus</i>	1	5		
<i>Coquillettidia perturbans</i>	29	805		
<i>Culex erraticus</i>	11	529		
<i>Culex pipiens</i>	12	158	1	6.329
<i>Culex restuans</i>	6	32		
<i>Culex salinarius</i>	21	269		
<i>Culex</i> spp.	205	9672	22	2.275
<i>Culex territans</i>	1	14		
<i>Culiseta melanura</i>	69	1530	4	2.614
<i>Psorophora ciliata</i>	1	35		
<i>Psorophora columbiae</i>	4	27		
<i>Psorophora ferox</i>	2	61		
<i>Psorophora howardii</i>	4	35		
<i>Uranotaenia sapphirina</i>	1	75		
Camden	216	4692	17	3.623
<i>Aedes albopictus</i>	46	267		
<i>Aedes japonicus</i>	27	60		
<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.	113	3877	16	4.127
<i>Culiseta melanura</i>	19	467	1	2.141
Cape May	2386	20761	2	0.096
<i>Aedes albopictus</i>	333	795		
<i>Aedes canadensis canadensis</i>	27	422		
<i>Aedes cantator</i>	38	136		
<i>Aedes japonicus</i>	99	177		
<i>Aedes sollicitans</i>	27	103		
<i>Aedes taeniorhynchus</i>	34	511		
<i>Aedes triseriatus</i>	113	161		
<i>Aedes trivittatus</i>	1	1		
<i>Aedes vexans</i>	25	56		
<i>Anopheles bradleyi</i>	71	594		
<i>Anopheles punctipennis</i>	10	12		

	<i>Anopheles quadrimaculatus</i>	69	287		
	<i>Coquillettidia perturbans</i>	26	324		
	<i>Culex erraticus</i>	164	8272		
	<i>Culex pipiens</i>	507	4620		
	<i>Culex restuans</i>	479	2434	1	0.411
	<i>Culex salinarius</i>	150	867	1	1.153
	<i>Culex spp.</i>	112	443		
	<i>Culiseta melanura</i>	95	535		
	<i>Orthopodomyia signifera</i>	4	4		
	<i>Psorophora ferox</i>	1	6		
	<i>Uranotaenia sapphirina</i>	1	1		
Cumberland		190	2987		
	<i>Aedes albopictus</i>	23	79		
	<i>Aedes atlanticus</i>	3	17		
	<i>Aedes canadensis canadensis</i>	3	7		
	<i>Aedes cantator</i>	1	2		
	<i>Aedes japonicus</i>	8	35		
	<i>Aedes sollicitans</i>	3	6		
	<i>Aedes taeniorhynchus</i>	4	187		
	<i>Aedes triseriatus</i>	12	23		
	<i>Aedes vexans</i>	8	43		
	<i>Anopheles bradleyi</i>	3	187		
	<i>Anopheles punctipennis</i>	3	5		
	<i>Anopheles quadrimaculatus</i>	4	12		
	<i>Coquillettidia perturbans</i>	13	144		
	<i>Culex erraticus</i>	8	59		
	<i>Culex pipiens</i>	7	24		
	<i>Culex restuans</i>	2	5		
	<i>Culex salinarius</i>	17	1160		
	<i>Culex spp.</i>	30	667		
	<i>Culex territans</i>	2	2		
	<i>Culiseta melanura</i>	32	268		
	<i>Psorophora ciliata</i>	1	8		
	<i>Psorophora columbiae</i>	1	23		
	<i>Psorophora ferox</i>	2	24		
Essex		460	7505	16	2.132
	<i>Aedes albopictus</i>	89	446	1	2.242
	<i>Aedes canadensis canadensis</i>	2	8		
	<i>Aedes grossbecki</i>	2	5		
	<i>Aedes japonicus</i>	59	618	1	1.618
	<i>Aedes sticticus</i>	1	21		
	<i>Aedes stimulans</i>	4	46		
	<i>Aedes triseriatus</i>	40	105		
	<i>Aedes vexans</i>	29	118		
	<i>Anopheles punctipennis</i>	3	4		
	<i>Culex spp.</i>	227	6115	14	2.289
	<i>Psorophora ferox</i>	4	19		
Gloucester		522	10778	46	4.268
	<i>Aedes albopictus</i>	48	680	3	4.412
	<i>Aedes canadensis canadensis</i>	1	10		
	<i>Aedes japonicus</i>	18	147		
	<i>Aedes triseriatus</i>	5	12		
	<i>Aedes vexans</i>	8	96		

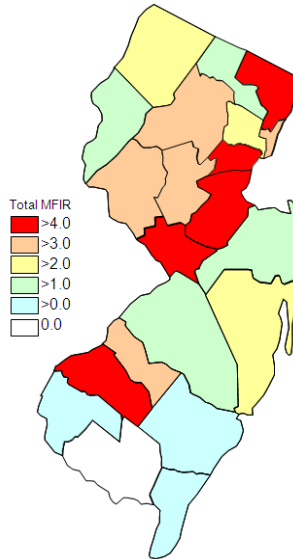
<i>Anopheles punctipennis</i>	17	277		
<i>Anopheles quadrimaculatus</i>	20	254		
<i>Coquillettidia perturbans</i>	7	40		
<i>Culex pipiens</i>	268	8050	42	5.217
<i>Culiseta melanura</i>	124	1116	1	0.896
<i>Psorophora ciliata</i>	1	8		
<i>Psorophora ferox</i>	5	88		
Hudson	173	9557	32	3.348
<i>Culex</i> spp.	173	9557	32	3.348
Hunterdon	210	10090	31	3.072
<i>Culex</i> spp.	210	10090	31	3.072
Mercer	268	3924	43	10.958
<i>Aedes albopictus</i>	79	564	1	1.773
<i>Aedes japonicus</i>	38	125		
<i>Aedes triseriatus</i>	11	27		
<i>Aedes vexans</i>	4	11		
<i>Culex erraticus</i>	2	6		
<i>Culex pipiens</i>	93	2555	32	12.524
<i>Culex restuans</i>	37	626	10	15.974
<i>Culex salinarius</i>	2	5		
<i>Psorophora ciliata</i>	1	4		
<i>Psorophora ferox</i>	1	1		
Middlesex	223	8103	52	6.417
<i>Aedes albopictus</i>	17	152		
<i>Aedes japonicus</i>	22	240		
<i>Aedes triseriatus</i>	1	5		
<i>Culex</i> spp.	183	7706	52	6.748
Monmouth	411	3551	7	1.971
<i>Aedes albopictus</i>	58	323		
<i>Aedes atlanticus</i>	1	2		
<i>Aedes canadensis canadensis</i>	16	113		
<i>Aedes cantator</i>	10	33		
<i>Aedes japonicus</i>	46	155		
<i>Aedes sollicitans</i>	9	33		
<i>Aedes taeniorhynchus</i>	10	141		
<i>Aedes triseriatus</i>	29	77		
<i>Aedes trivittatus</i>	14	52		
<i>Aedes vexans</i>	13	39		
<i>Anopheles barberi</i>	5	5		
<i>Anopheles punctipennis</i>	12	22		
<i>Anopheles quadrimaculatus</i>	3	5		
<i>Coquillettidia perturbans</i>	6	29		
<i>Culex erraticus</i>	1	1		
<i>Culex pipiens</i>	2	3		
<i>Culex restuans</i>	4	4		
<i>Culex salinarius</i>	1	16		
<i>Culex</i> spp.	125	2196	7	3.188
<i>Culiseta melanura</i>	35	215		
<i>Psorophora ciliata</i>	1	1		
<i>Psorophora columbiae</i>	2	16		

	<i>Psorophora ferox</i>	8	70		
Morris		208	7312	23	3.146
	<i>Aedes albopictus</i>	2	14		
	<i>Aedes japonicus</i>	10	168		
	<i>Coquillettidia perturbans</i>	2	65		
	<i>Culex</i> spp.	194	7065	23	3.255
Ocean		396	3748	10	2.668
	<i>Aedes albopictus</i>	84	1433		
	<i>Aedes atlanticus</i>	4	11		
	<i>Aedes canadensis canadensis</i>	13	22		
	<i>Aedes cantator</i>	8	10		
	<i>Aedes japonicus</i>	35	82		
	<i>Aedes sollicitans</i>	3	28		
	<i>Aedes taeniorhunchus</i>	2	4		
	<i>Aedes triseriatus</i>	17	29		
	<i>Aedes trivittatus</i>	8	50		
	<i>Aedes vexans</i>	21	89		
	<i>Anopheles bradleyi</i>	5	10		
	<i>Anopheles punctipennis</i>	14	33		
	<i>Anopheles quadrimaculatus</i>	4	5		
	<i>Coquillettidia perturbans</i>	20	105		
	<i>Culex erraticus</i>	2	2		
	<i>Culex restuans</i>	11	13		
	<i>Culex salinarius</i>	6	16		
	<i>Culex</i> spp.	90	1546	8	5.175
	<i>Culiseta melanura</i>	30	74	2	27.027
	<i>Psorophora ciliata</i>	1	7		
	<i>Psorophora columbiae</i>	2	2		
	<i>Psorophora ferox</i>	15	176		
	<i>Uranotaenia sapphirina</i>	1	1		
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		238	3061	1	0.327
	<i>Aedes albopictus</i>	20	39		
	<i>Aedes aurifer</i>	1	2		
	<i>Aedes canadensis canadensis</i>	3	19		
	<i>Aedes cantator</i>	1	2		
	<i>Aedes japonicus</i>	21	46		
	<i>Aedes sollicitans</i>	2	4		
	<i>Aedes triseriatus</i>	18	38		
	<i>Aedes vexans</i>	15	111		
	<i>Anopheles barberi</i>	1	1		
	<i>Anopheles bradleyi</i>	3	3		
	<i>Anopheles punctipennis</i>	9	13		

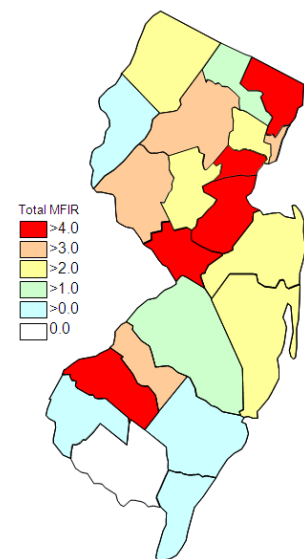
	<i>Anopheles quadrimaculatus</i>	15	98		
	<i>Coquillettidia perturbans</i>	8	22		
	<i>Culex erraticus</i>	18	601		
	<i>Culex pipiens</i>	5	9		
	<i>Culex restuans</i>	10	24		
	<i>Culex</i> spp.	60	1396		
	<i>Culiseta inornata</i>	1	2		
	<i>Culiseta melanura</i>	22	577	1	1.733
	<i>Psorophora columbiae</i>	5	54		
Somerset		186	2314	8	3.457
	<i>Aedes albopictus</i>	20	87		
	<i>Aedes japonicus</i>	14	131		
	<i>Aedes triseriatus</i>	6	32		
	<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.	132	1840	8	4.348
	<i>Psorophora ferox</i>	3	56		
Sussex		240	7994	19	2.377
	<i>Aedes japonicus</i>	23	468	1	2.137
	<i>Coquillettidia perturbans</i>	1	57		
	<i>Culex pipiens</i>	1	43		
	<i>Culex restuans</i>	5	12		
	<i>Culex</i> spp.	204	7383	18	2.438
	<i>Culiseta melanura</i>	6	31		
Union		135	3751	16	4.266
	<i>Aedes albopictus</i>	40	521	1	1.919
	<i>Aedes japonicus</i>	3	14		
	<i>Culex</i> spp.	92	3216	15	4.664
Warren		319	14730	15	1.018
	<i>Aedes cinereus</i>	3	5		
	<i>Aedes japonicus</i>	5	20		
	<i>Aedes stimulans</i>	1	1		
	<i>Aedes triseriatus</i>	3	12		
	<i>Aedes trivittatus</i>	6	139		
	<i>Aedes vexans</i>	7	61		
	<i>Anopheles barberi</i>	1	1		
	<i>Anopheles punctipennis</i>	9	39		
	<i>Anopheles quadrimaculatus</i>	7	34		
	<i>Anopheles walkeri</i>	1	7		
	<i>Coquillettidia perturbans</i>	2	3		
	<i>Culex</i> spp.	267	14369	15	1.044
	<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		7,724	158,037	457	2.892



Cumulative WNV activity in 2010.



WNV activity to 20 September 2011.



WNV activity last week, 2011.

Saint Louis Encephalitis (SLE) through 20 September 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		486	15949		
	<i>Aedes albopictus</i>	30	302		
	<i>Aedes atlanticus</i>	6	60		
	<i>Aedes atropalpus</i>	3	4		
	<i>Aedes canadensis canadensis</i>	20	942		
	<i>Aedes cantator</i>	2	63		
	<i>Aedes grossbecki</i>	1	3		
	<i>Aedes japonicus</i>	12	61		
	<i>Aedes mithcellae</i>	1	28		
	<i>Aedes sollicitans</i>	7	129		
	<i>Aedes sticticus</i>	1	3		
	<i>Aedes taeniorhynchus</i>	9	69		
	<i>Aedes triseriatus</i>	13	81		
	<i>Aedes trivittatus</i>	1	7		
	<i>Aedes vexans</i>	16	603		
	<i>Anopheles bradleyi</i>	6	336		
	<i>Anopheles crucians</i>	2	41		
	<i>Anopheles punctipennis</i>	5	30		
	<i>Anopheles quadrimaculatus</i>	1	5		
	<i>Coquillettidia perturbans</i>	29	805		
	<i>Culex erraticus</i>	11	529		
	<i>Culex pipiens</i>	12	158		
	<i>Culex restuans</i>	5	31		
	<i>Culex salinarius</i>	20	268		

	<i>Culex</i> spp.	204	9671		
	<i>Culex erraticus</i>	1	14		
	<i>Culiseta melanura</i>	56	1473		
	<i>Psorophora ciliata</i>	1	35		
	<i>Psorophora columbiae</i>	4	27		
	<i>Psorophora ferox</i>	2	61		
	<i>Psorophora howardii</i>	4	35		
	<i>Uranotaenia sapphirina</i>	1	75		
Camden		197	4225		
	<i>Aedes albopictus</i>	46	267		
	<i>Aedes japonicus</i>	27	60		
	<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.	113	3877		
Cumberland		1	1		
	<i>Aedes triseriatus</i>	1	1		
Essex		460	7505		
	<i>Aedes albopictus</i>	89	446		
	<i>Aedes canadensis canadensis</i>	2	8		
	<i>Aedes grossbecki</i>	2	5		
	<i>Aedes japonicus</i>	59	618		
	<i>Aedes sticticus</i>	1	21		
	<i>Aedes stimulans</i>	4	46		
	<i>Aedes triseriatus</i>	40	105		
	<i>Aedes vexans</i>	29	118		
	<i>Anopheles punctipennis</i>	3	4		
	<i>Culex</i> spp.	227	6115		
	<i>Psorophora ferox</i>	4	19		
Hudson		158	8783		
	<i>Culex</i> spp.	158	8783		
Grand Total		1,302	36,463		

La Crosse Encephalitis (LAC) through 20 September 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		106	152		
	<i>Aedes japonicus</i>	1	1		
	<i>Aedes triseriatus</i>	105	151		
Cumberland		14	27		
	<i>Aedes triseriatus</i>	14	27		
Salem		7	16		
	<i>Aedes triseriatus</i>	7	16		
Warren		1	9		
	<i>Aedes triseriatus</i>	1	9		
Grand Total		128	204		