

VECTOR SURVEILLANCE IN NEW JERSEY

EEE, WNV, SLE and LAC

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 CDC WEEK 40: October 2 to October 8, 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	0.98	0.24	104 [†]	16	0	
Corbin City (Atlantic County)	Coastal	0.48	0.20	172 [†]	16	0	
Dennisville (Cape May County)	Coastal	1.44	0.02	218	19	0	
Winslow (Camden County)	Inland	0.42	0.06	482	21	0	
Centerton (Salem County)	Inland	1.71	0.30	824	26	0	
Turkey Swamp (Monmouth County)	Inland	0.27	0.34	360 [†]	36	0	
Glassboro (Gloucester County)	Inland	0.74	0.16	464	20	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 2596 mosquitoes from 151 pools. Samples from Green Bank, Corbin City and Turkey Swamp will be analyzed later this week. One *Cs. melanura* was positive for WNV.

Three hundred fifty-two additional pools containing 3,268 *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	1736 (71)	0	
Cape May	CO2, Gravid, RB	377 (86)	0	
Cumberland	CO2, Gravid, RB	272 (34)	0	
Gloucester	RB	755 (119)	0	
Ocean	CO2, Gravid, RB	82 (33)	0	
Salem	BA, Gravid	27 (7)	0	
Sussex	CO2	14 (1)	0	
TOTAL		3268 (352)	0	

Species other than <i>Cs. melanura</i>	Pools	Mosquitoes	Positives	MFIR
<i>Aedes albopictus</i>	55	473		
<i>Aedes atlanticus</i>	6	60		
<i>Aedes atropalpus</i>	3	4		
<i>Aedes canadensis canadensis</i>	38	1601		
<i>Aedes cantator</i>	47	237		
<i>Aedes grossbecki</i>	1	3		
<i>Aedes japonicus</i>	25	89		
<i>Aedes mitchellae</i>	1	28		
<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>	17	86		
<i>Aedes trivittatus</i>	1	7		
<i>Aedes vexans</i>	21	729		
<i>Anopheles barberi</i>	2	2		
<i>Anopheles bradleyi</i>	87	996		
<i>Anopheles crucians</i>	5	52		
<i>Anopheles punctipennis</i>	35	316		
<i>Anopheles quadrimaculatus</i>	32	294		
<i>Coquillettidia perturbans</i>	87	1357		
<i>Culex erraticus</i>	201	9172		
<i>Culex pipiens</i>	475	3871		
<i>Culex restuans</i>	37	89		
<i>Culex salinarius</i>	183	1212		
<i>Culex</i> spp.	340	11098		
<i>Culex territans</i>	1	14		
<i>Psorophora ciliata</i>	1	35		
<i>Psorophora columbiae</i>	6	147		
<i>Psorophora ferox</i>	8	116		
<i>Psorophora howardii</i>	4	35		
<i>Uranotaenia sapphirina</i>	2	79		
State Total	1784	32,882		

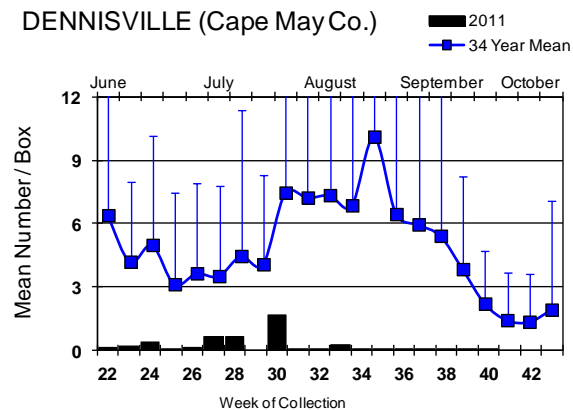
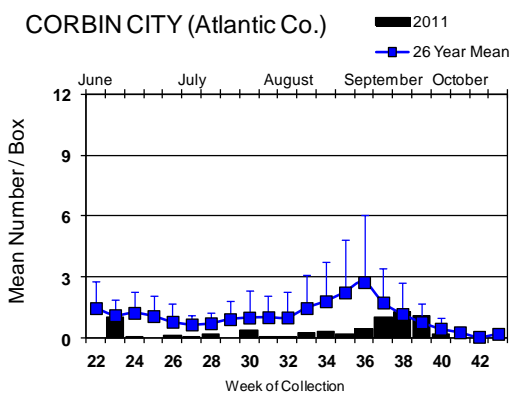
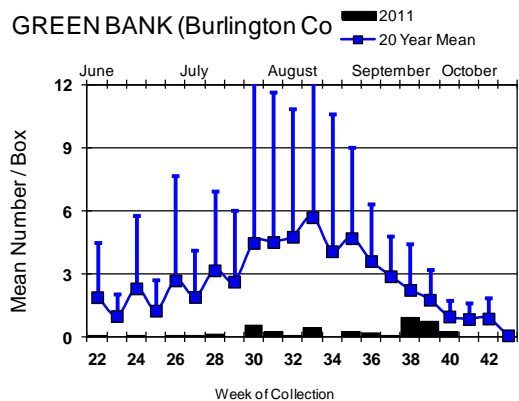
The table to the left indicates non-*Cs. melanura* mosquitoes tested for EEE. An addition 31 species of mosquitoes have been tested with no detection of EEE.

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

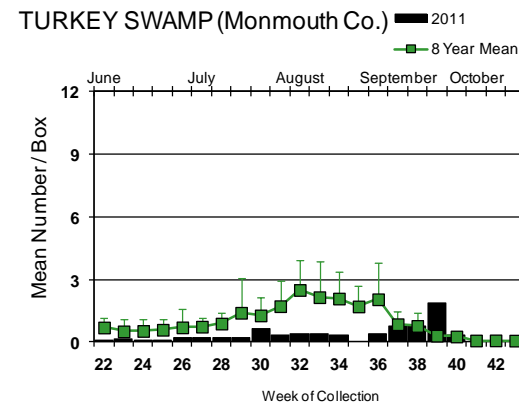
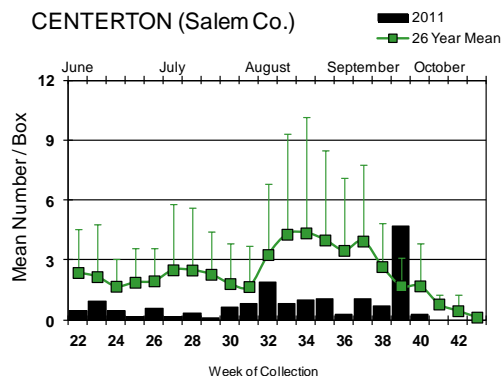
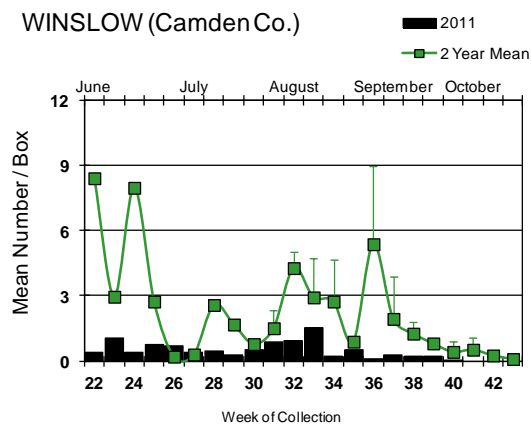
Horses and Vaccinations: The fate of unvaccinated equids reinforces the necessity of maintaining a vaccination schedule for arboviruses. For vaccination schedules recommended by the American Association of Equine Practices, see: http://www.aaep.org/vaccination_guidelines.htm

Culiseta melanura Population Graphs

Coastal



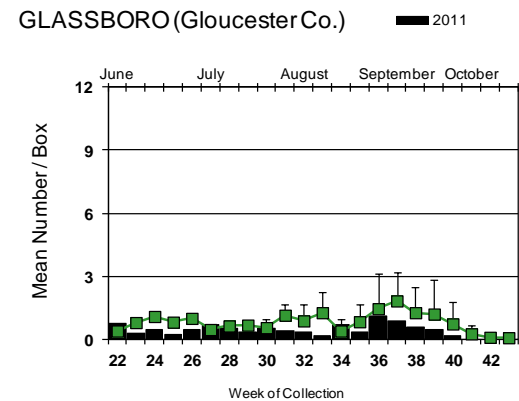
Inland



Cs. melanura populations have decreased from the previous week. Last week, light trap data suggested that the second generation peak may have occurred with historical trends indicating a decrease from now to the end of the season. However, currently, as numbers are collected for the upcoming report, the weather is warm. Regardless of how many mosquitoes are collected at this point, there is little time for a significant amplification of what little virus may currently be out there before the end of the season.

↓ = 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) 78(MA) 33(NY) 1(NC)
- sentinel: 24 chickens/19 wild bird (FL) 3(NC) 2(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	11/17	2	29
Arkansas					1
California	526/587	1896/1974	252/296	10/13	87/104
Colorado	0	59		0	6
Connecticut		161/162			8/9
Delaware	13/16		6/8	1	1
DC	5	22/31			1
Florida	1 flavi		73/84	1	21/22
Georgia	1	374		2	8
Hawaii					
Idaho		2			1
Illinois	19/20	976/1035	0	0	17/23
Indiana	1	179/182		3	6
Iowa		2/3	14	1	6/7
Kansas					
Kentucky		2/4		1	3
Louisiana		239	3		8
Maine		0		0	0
Maryland	6	17		1	16
Mass.		271/274		1	3/4
Michigan	10/13	17/21	0	0	18/23
Minnesota	4	1/3		1	1
Mississippi		31		1	46/47
Missouri		111/116		0	5

	Birds	Mosquito Pools	Sentinels	Horses	Humans
Montana					
Nebraska	2	49/53		1	23
Nevada	2	8		1	13
New Hampshire		8		0	0
New Jersey	33/34	485/510		0	4
New Mexico					2
New York		446		3*	32/36
North Carolina					2
North Dakota	0	0		5*	4
Ohio		570/577		4	15/16
Oklahoma		1			
Oregon	0	3	0	2	0
Pennsylvania	45/46	1384/1468		10*	4/5
Rhode Island		2		0	1
South Carolina	0	5		0	0
South Dakota		2		0	1
Tennessee	0	586		3	14
Texas	11	642/651		2	20
Utah		23	0	1	3
Vermont	12	3		0	2
Virginia		47	1/3	1	5/7
Washington	0	5		0	0
West Virginia	0	11/18		0	1
Wisconsin	10/13	0		3	1
Wyoming		10		0	1/3

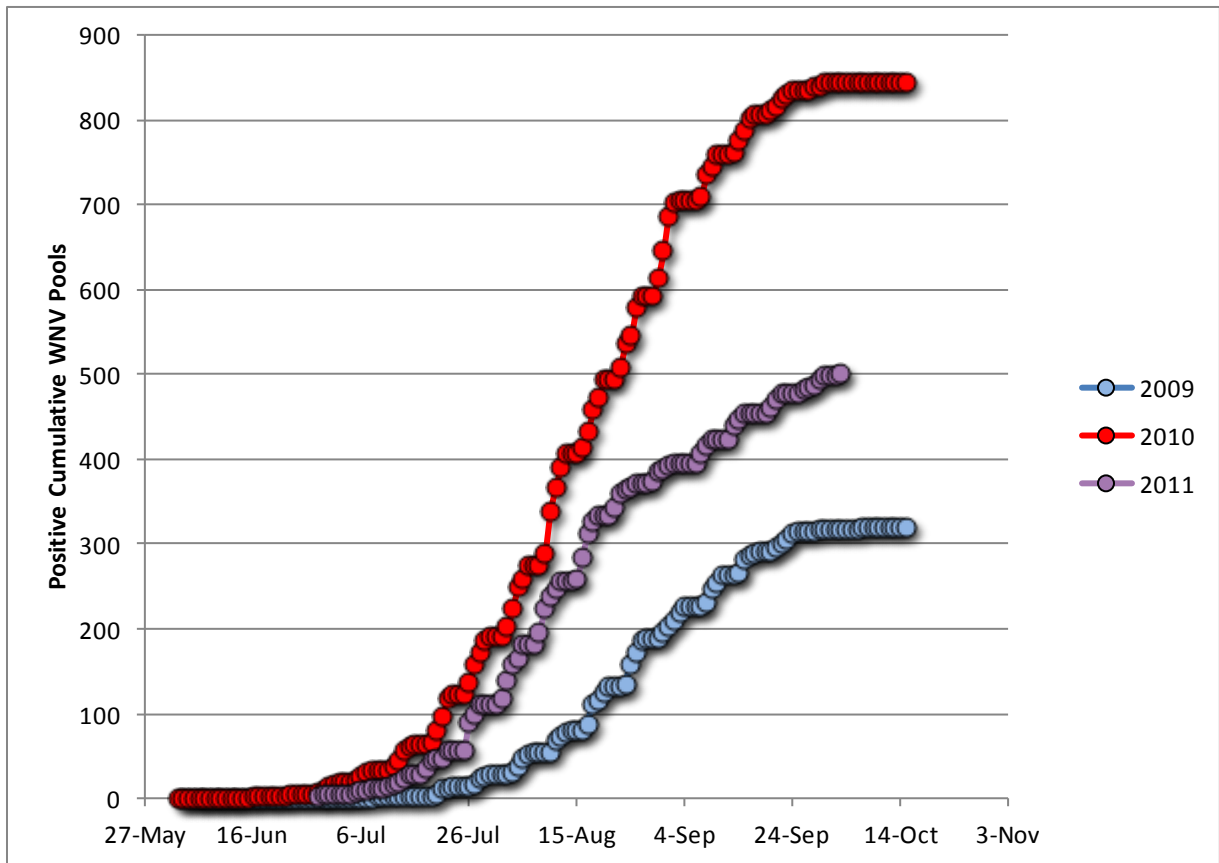
* Can include other species (e.g., dogs, cows) reported positive.

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 4 Oct. 2011

Species	Pools	Mosquitoes	Positives	MFIR
<i>Aedes albopictus</i>	1094	7176	6	0.836
<i>Aedes atlanticus</i>	18	140		
<i>Aedes atropalpus</i>	3	4		
<i>Aedes aurifer</i>	1	2		
<i>Aedes canadensis canadensis</i>	155	4011		
<i>Aedes cantator</i>	75	403		
<i>Aedes cinereus</i>	3	5		
<i>Aedes grossbecki</i>	3	8		
<i>Aedes japonicus</i>	558	3301	3	0.909
<i>Aedes mitchellae</i>	1	28		
<i>Aedes sollicitans</i>	60	372		
<i>Aedes sticticus</i>	6	70		
<i>Aedes stimulans</i>	5	47		
<i>Aedes taeniorhynchus</i>	70	1187		
<i>Aedes thibaulti</i>	1	1		
<i>Aedes triseriatus</i>	326	729		
<i>Aedes trivittatus</i>	48	476		
<i>Aedes vexans</i>	195	2017		
<i>Anopheles barberi</i>	7	7		
<i>Anopheles bradleyi</i>	111	1413	1	0.708
<i>Anopheles crucians</i>	6	54		
<i>Anopheles punctipennis</i>	105	482		
<i>Anopheles quadrimaculatus</i>	147	854		
<i>Anopheles walkeri</i>	2	14		
<i>Coquillettidia perturbans</i>	123	1664		
<i>Culex erraticus</i>	229	9861		
<i>Culex pipiens</i>	1040	17604	80	4.544
<i>Culex restuans</i>	646	3433	11	3.204
<i>Culex salinarius</i>	213	2413	1	0.414
<i>Culex spp.</i>	3002	112664	396	3.515
<i>Culex territans</i>	3	16		
<i>Culiseta inornata</i>	2	3		
<i>Culiseta melanura</i>	516	5920	11	1.858
<i>Orthopodomyia signifera</i>	5	5		
<i>Psorophora ciliata</i>	6	63		
<i>Psorophora columbiae</i>	20	249		
<i>Psorophora ferox</i>	72	1147	1	0.872
<i>Psorophora howardii</i>	6	42		
<i>Uranotaenia sapphirina</i>	9	115		
State Total	8,892	178,000	510	2.865

Remarks: To date, there have been 178,000 mosquitoes tested in 8,892 pools from 38 species. Currently, 510 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 3 October.



Positive pools continue to be detected in New Jersey, but the rate is decreasing.

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 thirty-four birds from the 108 birds that have been tested. Species include American Crow *Corvus brachyrhynchos* (12/14), Blue Jays *Cyanocitta cristata* (5/12), Fish Crows *Corvus ossifragus* (7/24) unknown *Corvus* (6/9), 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
510 / 8,892 (0.057)	836 / 5,530 (0.151)
2011 Positive Birds to date / Total Birds Submitted	This time last year
34 / 108 (0.315)	129 / 243 (0.531)

WNV Results by County through 4 October 2011

County	Species	Pools	Mosquitoes	Positives	MFIR
Atlantic		211	5844	4	0.684
	<i>Aedes albopictus</i>	18	408		
	<i>Aedes canadensis canadensis</i>	7	184		
	<i>Aedes cantator</i>	4	31		
	<i>Aedes japonicus</i>	6	23		

<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>	7	16		
<i>Aedes trivittatus</i>	2	10		
<i>Aedes vexans</i>	16	234		
<i>Anopheles bradleyi</i>	5	24		
<i>Anopheles punctipennis</i>	2	2		
<i>Anopheles quadrimaculatus</i>	1	2		
<i>Coquillettidia perturbans</i>	5	63		
<i>Culex erraticus</i>	6	189		
<i>Culex restuans</i>	1	1		
<i>Culex</i> spp.	83	3758	3	0.798
<i>Culiseta melanura</i>	17	198		
<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	175	11694	100	8.551
<i>Aedes albopictus</i>	5	15		
<i>Aedes japonicus</i>	9	58	1	17.241
<i>Aedes triseriatus</i>	1	1		
<i>Aedes vexans</i>	5	140		
<i>Anopheles punctipennis</i>	2	5		
<i>Culex</i> spp.	153	11475	99	8.627
Burlington	601	18718	32	1.710
<i>Aedes albopictus</i>	37	434		
<i>Aedes atlanticus</i>	6	60		
<i>Aedes atropalpus</i>	3	4		
<i>Aedes canadensis canadensis</i>	35	1590		
<i>Aedes cantator</i>	2	63		
<i>Aedes grossbecki</i>	1	3		
<i>Aedes japonicus</i>	14	67		
<i>Aedes mitchellae</i>	1	28		
<i>Aedes sollicitans</i>	8	130		
<i>Aedes sticticus</i>	2	30		
<i>Aedes taeniorhynchus</i>	9	69		
<i>Aedes triseriatus</i>	13	81		
<i>Aedes trivittatus</i>	1	7		
<i>Aedes vexans</i>	19	727		
<i>Anopheles bradleyi</i>	10	396	1	2.525
<i>Anopheles crucians</i>	5	52		
<i>Anopheles punctipennis</i>	7	33		
<i>Anopheles quadrimaculatus</i>	1	5		
<i>Coquillettidia perturbans</i>	29	805		
<i>Culex erraticus</i>	11	529		
<i>Culex pipiens</i>	16	274	2	7.299
<i>Culex restuans</i>	8	50		
<i>Culex salinarius</i>	24	309		
<i>Culex</i> spp.	233	10714	24	2.240
<i>Culex territans</i>	1	14		
<i>Culiseta melanura</i>	86	1834	5	2.726
<i>Psorophora ciliata</i>	1	35		

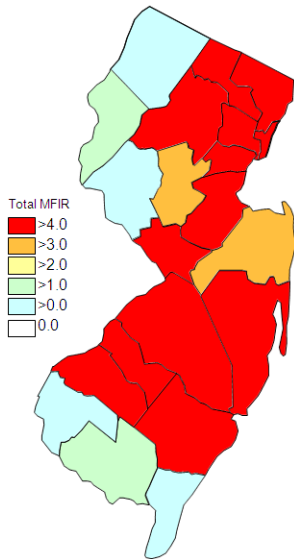
<i>Psorophora columbiae</i>	6	147		
<i>Psorophora ferox</i>	6	114		
<i>Psorophora howardii</i>	4	35		
<i>Uranotaenia sapphirina</i>	2	79		
Camden	265	6449	19	2.946
<i>Aedes albopictus</i>	51	307		
<i>Aedes japonicus</i>	30	66		
<i>Aedes triseriatus</i>	4	8		
<i>Aedes vexans</i>	1	1		
<i>Anopheles punctipennis</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.	149	5438	18	3.310
<i>Culiseta melanura</i>	21	482	1	2.075
Cape May	2721	22811	3	0.132
<i>Aedes albopictus</i>	402	957		
<i>Aedes canadensis canadensis</i>	31	513		
<i>Aedes cantator</i>	44	149		
<i>Aedes japonicus</i>	107	186		
<i>Aedes sollicitans</i>	27	103		
<i>Aedes taeniorhynchus</i>	35	513		
<i>Aedes triseriatus</i>	136	202		
<i>Aedes trivittatus</i>	1	1		
<i>Aedes vexans</i>	31	69		
<i>Anopheles bradleyi</i>	81	638		
<i>Anopheles punctipennis</i>	12	14		
<i>Anopheles quadrimaculatus</i>	79	390		
<i>Coquillettidia perturbans</i>	26	324		
<i>Culex erraticus</i>	174	8455		
<i>Culex pipiens</i>	586	5652	1	0.177
<i>Culex restuans</i>	557	2666	1	0.375
<i>Culex salinarius</i>	162	906	1	1.104
<i>Culex</i> spp.	118	466		
<i>Culiseta melanura</i>	106	596		
<i>Orthopodomyia signifera</i>	4	4		
<i>Psorophora ferox</i>	1	6		
<i>Uranotaenia sapphirina</i>	1	1		
Cumberland	223	3788		
<i>Aedes albopictus</i>	25	89		
<i>Aedes atlanticus</i>	3	17		
<i>Aedes canadensis canadensis</i>	8	131		
<i>Aedes cantator</i>	3	81		
<i>Aedes japonicus</i>	9	37		
<i>Aedes sollicitans</i>	4	24		
<i>Aedes taeniorhynchus</i>	6	337		
<i>Aedes triseriatus</i>	14	26		
<i>Aedes vexans</i>	10	87		
<i>Anopheles bradleyi</i>	6	341		
<i>Anopheles punctipennis</i>	4	9		
<i>Anopheles quadrimaculatus</i>	5	13		
<i>Coquillettidia perturbans</i>	13	144		
<i>Culex erraticus</i>	11	69		

	<i>Culex pipiens</i>	7	24		
	<i>Culex restuans</i>	2	5		
	<i>Culex salinarius</i>	17	1160		
	<i>Culex</i> spp.	36	865		
	<i>Culex territans</i>	2	2		
	<i>Culiseta melanura</i>	34	272		
	<i>Psorophora ciliata</i>	1	8		
	<i>Psorophora columbiae</i>	1	23		
	<i>Psorophora ferox</i>	2	24		
Essex		505	7686	16	2.082
	<i>Aedes albopictus</i>	101	489	1	2.045
	<i>Aedes canadensis canadensis</i>	2	8		
	<i>Aedes grossbecki</i>	2	5		
	<i>Aedes japonicus</i>	75	689	1	1.451
	<i>Aedes sticticus</i>	1	21		
	<i>Aedes stimulans</i>	4	46		
	<i>Aedes triseriatus</i>	41	107		
	<i>Aedes vexans</i>	29	118		
	<i>Anopheles punctipennis</i>	3	4		
	<i>Culex</i> spp.	243	6180	14	2.265
	<i>Psorophora ferox</i>	4	19		
Gloucester		614	11831	47	3.973
	<i>Aedes albopictus</i>	69	896	3	3.348
	<i>Aedes canadensis canadensis</i>	2	23		
	<i>Aedes japonicus</i>	20	156		
	<i>Aedes triseriatus</i>	7	19		
	<i>Aedes vexans</i>	12	246		
	<i>Anopheles punctipennis</i>	19	288		
	<i>Anopheles quadrimaculatus</i>	29	298		
	<i>Coquillettidia perturbans</i>	9	43		
	<i>Culex pipiens</i>	297	8519	43	5.048
	<i>Culiseta melanura</i>	140	1222	1	0.818
	<i>Psorophora ciliata</i>	1	8		
	<i>Psorophora ferox</i>	9	113		
Hudson		202	10909	36	3.300
	<i>Culex</i> spp.	202	10909	36	3.300
Hunterdon		235	11131	38	3.414
	<i>Culex</i> spp.	235	11131	38	3.414
Mercer		339	4417	44	9.962
	<i>Aedes albopictus</i>	101	658	1	1.520
	<i>Aedes japonicus</i>	51	156		
	<i>Aedes triseriatus</i>	12	30		
	<i>Aedes vexans</i>	4	11		
	<i>Culex erraticus</i>	2	6		
	<i>Culex pipiens</i>	121	2898	33	11.387
	<i>Culex restuans</i>	43	646	10	15.480
	<i>Culex salinarius</i>	2	5		
	<i>Culex</i> spp.	1	2		
	<i>Psorophora ciliata</i>	1	4		
	<i>Psorophora ferox</i>	1	1		

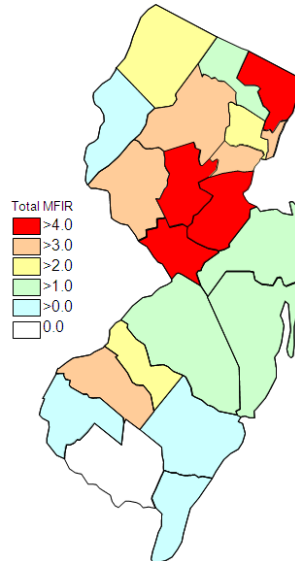
Middlesex	238	8625	53	6.145
<i>Aedes albopictus</i>	18	155		
<i>Aedes japonicus</i>	22	240		
<i>Aedes triseriatus</i>	1	5		
<i>Culex</i> spp.	197	8225	53	6.444
Monmouth	449	4095	7	1.709
<i>Aedes albopictus</i>	61	331		
<i>Aedes atlanticus</i>	1	2		
<i>Aedes canadensis canadensis</i>	24	396		
<i>Aedes cantator</i>	10	33		
<i>Aedes japonicus</i>	48	157		
<i>Aedes sollicitans</i>	9	33		
<i>Aedes taeniorhynchus</i>	10	141		
<i>Aedes triseriatus</i>	31	79		
<i>Aedes trivittatus</i>	17	112		
<i>Aedes vexans</i>	15	44		
<i>Anopheles barberi</i>	5	5		
<i>Anopheles crucians</i>	1	2		
<i>Anopheles punctipennis</i>	14	24		
<i>Anopheles quadrimaculatus</i>	3	5		
<i>Coquillettidia perturbans</i>	6	29		
<i>Culex erraticus</i>	2	2		
<i>Culex pipiens</i>	3	17		
<i>Culex restuans</i>	5	10		
<i>Culex salinarius</i>	1	16		
<i>Culex</i> spp.	128	2210	7	3.167
<i>Culiseta melanura</i>	39	351		
<i>Psorophora ciliata</i>	1	1		
<i>Psorophora columbiae</i>	3	17		
<i>Psorophora ferox</i>	11	77		
<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	481	5295	10	1.889
<i>Aedes albopictus</i>	96	1558		
<i>Aedes atlanticus</i>	8	61		
<i>Aedes canadensis canadensis</i>	39	1136		
<i>Aedes cantator</i>	10	42		
<i>Aedes japonicus</i>	41	90		
<i>Aedes sollicitans</i>	4	29		
<i>Aedes taeniorhynchus</i>	2	4		
<i>Aedes triseriatus</i>	19	31		
<i>Aedes trivittatus</i>	12	58		
<i>Aedes vexans</i>	23	98		
<i>Anopheles bradleyi</i>	6	11		
<i>Anopheles punctipennis</i>	16	35		
<i>Anopheles quadrimaculatus</i>	5	6		
<i>Coquillettidia perturbans</i>	20	105		
<i>Culex erraticus</i>	2	2		

<i>Culex restuans</i>	12	14		
<i>Culex salinarius</i>	7	17		
<i>Culex</i> spp.	101	1688	8	4.739
<i>Culiseta melanura</i>	33	82	2	24.390
<i>Psorophora ciliata</i>	1	7		
<i>Psorophora columbiae</i>	2	2		
<i>Psorophora ferox</i>	20	217		
<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	284	3414	2	0.586
<i>Aedes albopictus</i>	26	47		
<i>Aedes aurifer</i>	1	2		
<i>Aedes canadensis canadensis</i>	4	20		
<i>Aedes cantator</i>	2	4		
<i>Aedes japonicus</i>	27	60		
<i>Aedes sollicitans</i>	3	5		
<i>Aedes sticticus</i>	1	1		
<i>Aedes triseriatus</i>	22	46		
<i>Aedes vexans</i>	17	113		
<i>Anopheles barberi</i>	1	1		
<i>Anopheles bradleyi</i>	3	3		
<i>Anopheles punctipennis</i>	10	15		
<i>Anopheles quadrimaculatus</i>	16	99		
<i>Coquillettidia perturbans</i>	8	22		
<i>Culex erraticus</i>	19	602		
<i>Culex pipiens</i>	5	9		
<i>Culex restuans</i>	13	29		
<i>Culex</i> spp.	65	1425		
<i>Culiseta inornata</i>	1	2		
<i>Culiseta melanura</i>	33	851	2	2.350
<i>Psorophora columbiae</i>	7	58		
Somerset	215	2932	16	5.457
<i>Aedes albopictus</i>	20	87		
<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.	158	2444	16	6.547
<i>Psorophora ferox</i>	3	56		
Sussex	281	8856	22	2.484

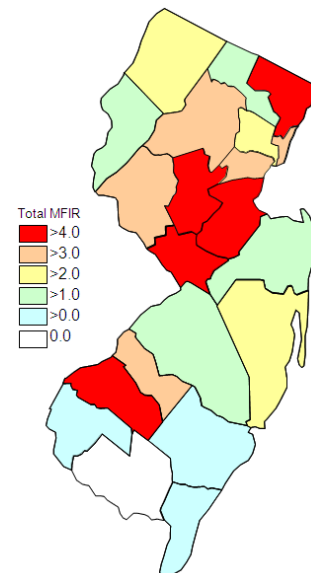
	<i>Aedes japonicus</i>	42	767	1	1.304
	<i>Coquillettidia perturbans</i>	1	57		
	<i>Culex pipiens</i>	2	76	1	13.158
	<i>Culex restuans</i>	5	12		
	<i>Culex</i> spp.	225	7913	20	2.527
	<i>Culiseta melanura</i>	6	31		
Union		159	4307	17	3.947
	<i>Aedes albopictus</i>	47	599	1	1.669
	<i>Aedes japonicus</i>	3	14		
	<i>Culex</i> spp.	109	3694	16	4.331
Warren		345	18276	15	0.982
	<i>Aedes cinereus</i>	3	5		
	<i>Aedes japonicus</i>	7	32		
	<i>Aedes sticticus</i>	1	12		
	<i>Aedes stimulans</i>	1	1		
	<i>Aedes triseriatus</i>	4	14		
	<i>Aedes trivittatus</i>	7	144		
	<i>Aedes vexans</i>	9	80		
	<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.	284	14856	15	1.010
	<i>Culiseta inornata</i>	1	1		
	<i>Culiseta melanura</i>	1	1		
	<i>Psorophora ferox</i>	3	7		
	<i>Uranotaenia sapphirina</i>	3	32		
Grand Total		8,892	178,000	510	2.865



Cumulative WNV activity in 2010.



WNV activity to 4 October 2011.



WNV activity last week, 2011.

Saint Louis Encephalitis (SLE) through 4 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		575	18608		
	<i>Aedes albopictus</i>	35	432		
	<i>Aedes atlanticus</i>	6	60		
	<i>Aedes atropalpus</i>	3	4		
	<i>Aedes canadensis canadensis</i>	33	1588		
	<i>Aedes cantator</i>	2	63		
	<i>Aedes grossbecki</i>	1	3		
	<i>Aedes japonicus</i>	14	67		
	<i>Aedes mithcellae</i>	1	28		
	<i>Aedes sollicitans</i>	7	129		
	<i>Aedes sticticus</i>	2	30		
	<i>Aedes taeniorhynchus</i>	9	69		
	<i>Aedes triseriatus</i>	13	81		
	<i>Aedes trivittatus</i>	1	7		
	<i>Aedes vexans</i>	19	727		
	<i>Anopheles bradleyi</i>	8	393		
	<i>Anopheles crucians</i>	5	52		
	<i>Anopheles punctipennis</i>	6	32		
	<i>Anopheles quadrimaculatus</i>	1	5		
	<i>Coquillettidia perturbans</i>	29	805		
	<i>Culex erraticus</i>	11	529		
	<i>Culex pipiens</i>	16	274		
	<i>Culex restuans</i>	7	49		
	<i>Culex salinarius</i>	23	308		
	<i>Culex</i> spp.	232	10713		

	<i>Culex erraticus</i>	1	14		
	<i>Culiseta melanura</i>	71	1736		
	<i>Psorophora ciliata</i>	1	35		
	<i>Psorophora columbiae</i>	6	147		
	<i>Psorophora ferox</i>	6	114		
	<i>Psorophora howardii</i>	4	35		
	<i>Uranotaenia sapphirina</i>	2	79		
Camden		244	5967		
	<i>Aedes albopictus</i>	51	307		
	<i>Aedes japonicus</i>	30	66		
	<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.	149	5438		
Cumberland		1	1		
	<i>Aedes triseriatus</i>	1	1		
Essex		505	7686		
	<i>Aedes albopictus</i>	101	489		
	<i>Aedes canadensis canadensis</i>	2	8		
	<i>Aedes grossbecki</i>	2	5		
	<i>Aedes japonicus</i>	75	689		
	<i>Aedes sticticus</i>	1	21		
	<i>Aedes stimulans</i>	4	46		
	<i>Aedes triseriatus</i>	41	107		
	<i>Aedes vexans</i>	29	118		
	<i>Anopheles punctipennis</i>	3	4		
	<i>Culex</i> spp.	243	6180		
	<i>Psorophora ferox</i>	4	19		
Hudson		187	10135		
	<i>Culex</i> spp.	187	10135		
Grand Total		1,512	42,397		

La Crosse Encephalitis (LAC) through 4 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		8	17		
	<i>Aedes triseriatus</i>	8	17		
Warren		1	9		
	<i>Aedes triseriatus</i>	1	9		
Grand Total		154	249		