VECTOR SURVEILLANCE IN NEW JERSEY

EEE, WNV, SLE and LAC

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CDC WEEK 37: September 11 to September 17, 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	2.89	0.08	54	12	0	
Corbin City (Atlantic County)	Coastal	1.77	1.04	108†	13	0	
Dennisville (Cape May County)	Coastal	5.43	0.04	212	16	0	
Winslow (Camden County)	Inland	1.94	0.28	457	18	0	
Centerton (Salem County)	Inland	3.95	1.04	539	19	0	
Turkey Swamp (Monmouth County)	Inland	0.86	0.78	202†	32	0	
Glassboro (Gloucester County)	Inland	1.83	0.86	404	17	0	

*Including trial run last week in May. † Adjusted for testing this week. ‡ Testing delayed due to disruptions from Hurricane Irene.

Remarks: Testing has resumed at the Cape May Labs after disruption by Hurricane Irene. 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 1976 from 127 pools. Samples from Corbin City and Turkey Swamp will be analyzed later this week.

Two hundred sixty-nine additional pools containing 2,561 *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 *Cs. melanura* trapped by counties
*traps with positives indicated in **BOLD**.

County	Trap types*	Number collected (pools)	Number of positives pools	MFIR
Burlington	CO2	1300 (50)	0	
Cape May	CO2, Gravid, RB	282 (60)	0	
Cumberland	CO2, Gravid, RB	255 (30)	0	
Gloucester	RB	639 (98)	0	
Ocean	CO2, Gravid, RB	68 (29)	0	
Salem	BA	3 (1)	0	
Sussex	CO2	14 (1)	0	
TOTAL		**2561 (269)**	**0**	

Species other than *Cs. melanura*	Pools	Mosquitoes	Positives	MFIR
Aedes albopictus	38	304		
Aedes atlanticus	4	47		
Aedes atropalpus	3	4		
Aedes canadensis canadensis	17	668		
Aedes cantator	29	201		
Aedes grossbecki	1	3		
Aedes japonicus	20	76		
Aedes mitchellae	1	28		
Aedes sollicitans	29	201		
Aedes sticticus	1	3		
Aedes taeniorhynchus	21	396		
Aedes thibaulti	1	1		
Aedes triseriatus	12	70		
Aedes vexans	17	540		
Anopheles barberi	2	2		
Anopheles bradleyi	56	801		
Anopheles crucians	2	41		
Anopheles punctipennis	27	268		
Anopheles quadrimaculatus	25	257		
Coquillettidia perturbans	85	1353		
Culex erraticus	143	6824		
Culex pipiens	354	2819		
Culex restuans	24	52		
Culex salinarius	143	1052		
Culex spp.	286	9736		
Culex territans	1	14		
Psorophora ciliata	1	35		
Psorophora columbiae	3	26		
Psorophora ferox	2	8		
Psorophora howardii	4	35		
Uranotaenia sapphirina	1	75		
State Total	**1353**	**25,940**		

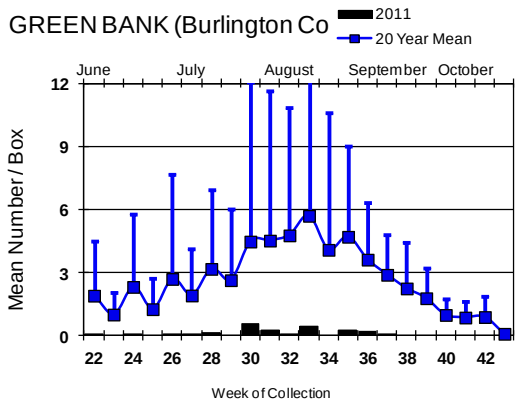
The table to the left indicates non-*Cs. melanura* mosquitoes tested for EEE. An addition 30 species of mosquitoes have been tested with no detection of EEE.

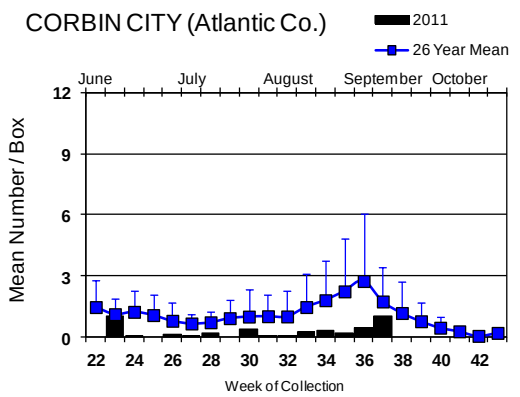
Horses and Humans: No positive horses or humans to date.

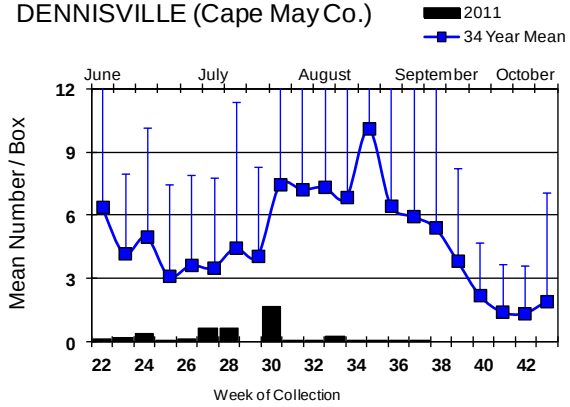
Horses and Vaccinations: The fate of unvaccinated equids reinforces the necessity of maintaining a vaccination schedule for arboviruses. For vaccination schedules recommended by the American Association of Equine Practices, see: http://www.aaep.org/vaccination_guidelines.htm

Culiseta melanura Population Graphs

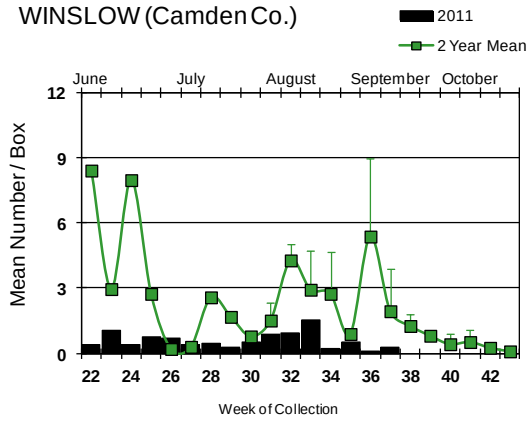
Coastal

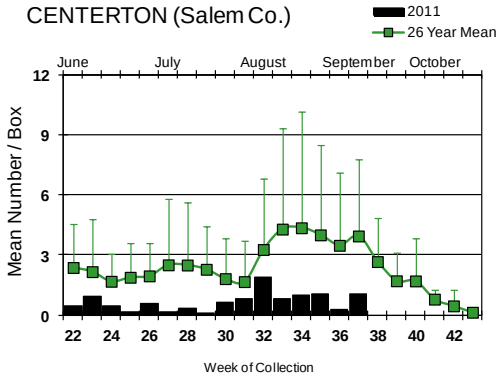


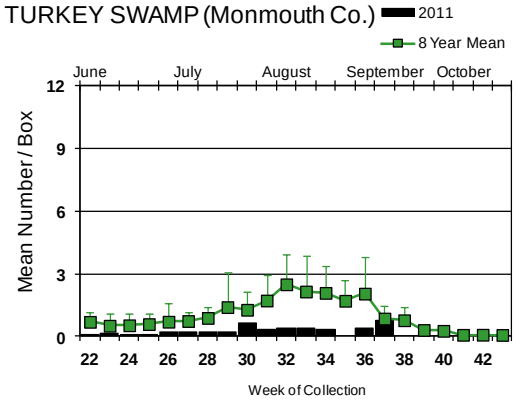




Inland



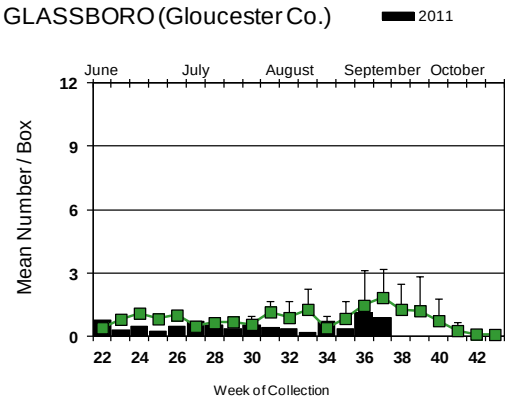




Several of the traditional resting box sites have shown a population increase from the previous week (Corbin City, Winslow, Centerton, Turkey Swamp), but all populations continue to be below historical trends. Light trap data from the Pinelands have shown an increase over the past few weeks as expected for the second generation.

= Positive pool(s) detected.

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



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

- equine: 3(FL) 1(LA) 1(MS) 11(NY) 1(NC) 5(WI-2 alpaca)
- mosquito pools: 2(LA) 61(MA) 26(NY) 1(NC)
- sentinel: 19 chickens/19 wild bird (FL) 2(NC) 2(VA)
- human: 1(MA) 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	108/123	11	2	24/27
Arkansas					
California	358/398	1479/1651	135/167	5/7	33/48
Colorado	0	47/59		0	2/5
Connecticut		132/141			3/6
Delaware	12		2/5		
DC	5	22/31			
Florida	1 flavi		68/71	1	13/15
Georgia		349		1	3
Hawaii					
Idaho		2			1
Illinois	12/16	664/809	0	0	4/7
Indiana	1	109		2	4
Iowa		2	12/14	1	2
Kansas					
Kentucky		2		1	
Louisiana		216	1/2		2/4
Maine		0		0	0
Maryland	3	12/13			4/11
Mass.		230/249		1	1
Michigan	2/8	9	0	0	6
Minnesota	3	1		1	
Mississippi		31		1	24/33
Missouri		95/100		0	1/5

	Birds	Mosquito Pools	Sentinels	Horses	Humans
Montana				0	0
Nebraska	2	18/33		1	8/11
Nevada	2	8		1	7/9
New Hampshire		4/6		0	0
New Jersey	24/25	392/427		0	3/4
New Mexico					1
New York		396/417		2/3*	7/12
North Carolina				1	
North Dakota	0	0		4/5*	3/4
Ohio		515		0	6
Oklahoma		1			
Oregon	0	2	0	1	0
Pennsylvania	30/37	1043/1122		6/8*	2/4
Rhode Island		1		0	0
South Carolina	0	1		0	0
South Dakota		2		0	1
Tennessee	0	586		0	2/5
Texas	5/8	592/618		2	20
Utah		23	0	1	2
Vermont	7/9	2		0	1/2
Virginia		47	1	1	1/2
Washington	0	2/3		0	0
West Virginia	0	1		0	0
Wisconsin	5	0		1/2	0
Wyoming		10		0	1

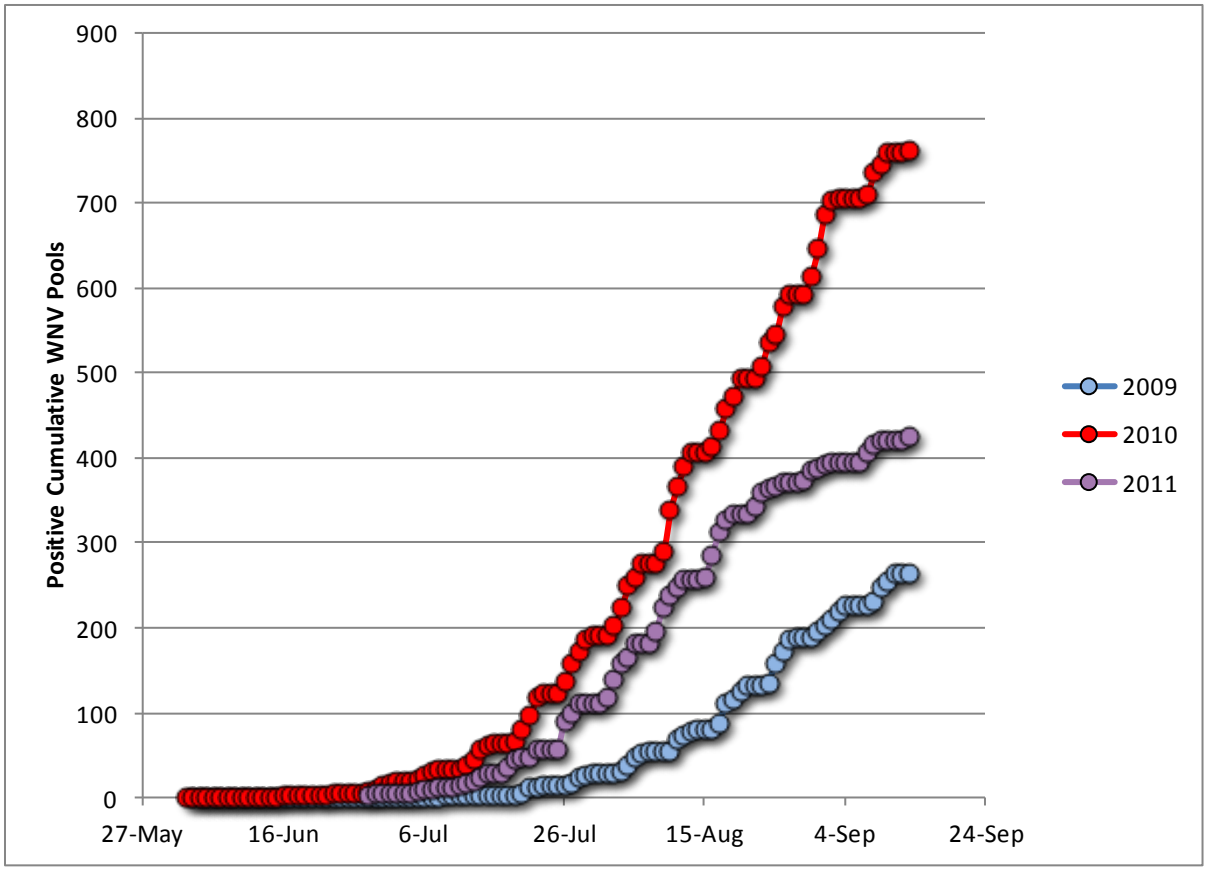
* Can include other species (e.g., dogs, cows) reported positive.

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 14 Sept. 2011

Species	Pools	Mosquitoes	Positives	MFIR
Aedes albopictus	855	5951	6	1.008
Aedes atlanticus	9	73		
Aedes atropalpus	3	4		
Aedes aurifer	1	2		
Aedes canadensis canadensis	77	1234		
Aedes cantator	51	242		
Aedes cinereus	3	5		
Aedes grossbecki	3	8		
Aedes japonicus	440	2571	2	0.778
Aedes mitchellae	1	28		
Aedes sollicitans	53	323		
Aedes sticticus	2	24		
Aedes stimulans	5	47		
Aedes taeniorhynchus	60	986		
Aedes thibaulti	1	1		
Aedes triseriatus	255	604		
Aedes trivittatus	25	238		
Aedes vexans	153	1313		
Anopheles barberi	6	6		
Anopheles bradleyi	83	1040	1	0.962
Anopheles crucians	2	41		
Anopheles punctipennis	84	405		
Anopheles quadrimaculatus	117	662		
Anopheles walkeri	1	7		
Coquillettidia perturbans	119	1631		
Culex erraticus	205	9500		
Culex pipiens	836	14687	75	5.107
Culex restuans	534	3112	11	3.535
Culex salinarius	190	2278	1	0.439
Culex spp.	2532	97777	322	3.293
Culex territans	3	16		
Culiseta inornata	2	3		
Culiseta melanura	415	4540	9	1.982
Orthopodomyia signifera	5	5		
Psorophora ciliata	5	55		
Psorophora columbiae	12	121		
Psorophora ferox	32	356		
Psorophora howardii	4	35		
Uranotaenia sapphirina	6	109		
State Total	**7,190**	**150,040**	**427**	**2.846**

Remarks: To date, there have been 150,040 mosquitoes tested in 7,190 pools from 38 species. Currently, 427 positive pools have been detected as of last week in *Culex pipiens, Cx. restuans, Cx. salinarius*, Mixed *Culex, Culiseta melanura*, *Aedes albopictus*, *Aedes japonicus* and *Anopheles bradleyi*. Dates positive samples were collected were between 28 June and 13 September.



This year continues to diverge from the very active 2010 season.

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 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* (8/10), Blue Jays *Cyanocitta cristata* (3/9), Fish Crows *Corvus ossifragus* (5/21) unknown Corvus (6/8), Hawk (0/3) and Other (non-corvid) species (3/37). Positive birds were from Gloucester, Morris, Ocean, and Warren counties. Counties submitting birds are Atlantic, Burlington, Cape May, Cumberland, Gloucester, Monmouth, Morris, Ocean , 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
427 / 7,190 (0.059)	797 / 4,895 (0.163)
2011 Positive Birds to date / Total Birds Submitted	This time last year
25 / 88 (0.284)	119 / 221 (0.538)

WNV Results by County through 14 September 2011

County	Species	Pools	Mosquitoes	Positives	MFIR
Atlantic		**158**	**4466**	**1**	**0.224**
	Aedes albopictus	14	376		
	Aedes canadensis canadensis	2	9		
	Aedes cantator	3	20		
	Aedes japonicus	4	18		

	Aedes sollicitans	5	48		
	Aedes taeniorhynchus	7	107		
	Aedes thibaulti	1	1		
	Aedes triseriatus	6	14		
	Aedes vexans	12	88		
	Anopheles bradleyi	3	16		
	Anopheles punctipennis	1	1		
	Anopheles quadrimaculatus	1	2		
	Coquillettidia perturbans	5	63		
	Culex erraticus	4	185		
	Culex restuans	1	1		
	Culex spp.	73	3399	1	0.294
	Culiseta melanura	13	104		
	Orthopodomyia signifera	1	1		
	Psorophora columbiae	1	2		
	Psorophora ferox	1	11		
Bergen		**130**	**8943**	**78**	**8.722**
	Aedes albopictus	3	8		
	Aedes japonicus	5	32		
	Aedes vexans	4	126		
	Anopheles punctipennis	1	2		
	Culex spp.	117	8775	78	8.889
Burlington		**461**	**14948**	**27**	**1.806**
	Aedes albopictus	31	283		
	Aedes atlanticus	4	47		
	Aedes atropalpus	3	4		
	Aedes canadensis canadensis	15	662		
	Aedes cantator	2	63		
	Aedes grossbecki	1	3		
	Aedes japonicus	12	61		
	Aedes mitchellae	1	28		
	Aedes sollicitans	7	129		
	Aedes sticticus	1	3		
	Aedes taeniorhynchus	9	69		
	Aedes triseriatus	11	68		
	Aedes vexans	15	538		
	Anopheles bradleyi	4	260	1	3.846
	Anopheles crucians	2	41		
	Anopheles punctipennis	3	17		
	Anopheles quadrimaculatus	1	5		
	Coquillettidia perturbans	29	805		
	Culex erraticus	11	529		
	Culex pipiens	10	136	1	7.353
	Culex restuans	5	27		
	Culex salinarius	18	231		
	Culex spp.	193	9393	21	2.236
	Culex territans	1	14		
	Culiseta melanura	62	1354	4	2.954
	Psorophora ciliata	1	35		
	Psorophora columbiae	3	26		
	Psorophora ferox	1	7		
	Psorophora howardii	4	35		
	Uranotaenia sapphirina	1	75		

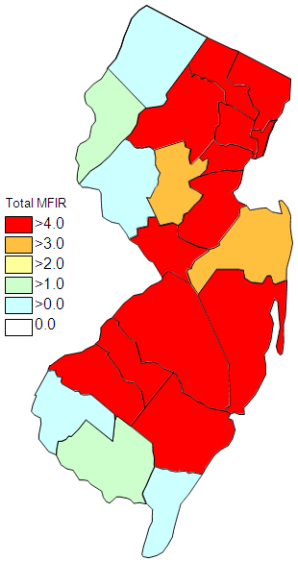
Camden	**197**	**4229**	**14**	**3.310**
Aedes albopictus	44	262		
Aedes japonicus	25	58		
Aedes triseriatus	4	8		
Aedes vexans	1	1		
Anopheles punctipennis	3	3		
Anopheles quadrimaculatus	1	2		
Culex erraticus	2	7		
Culex spp.	99	3431	13	3.789
Culiseta melanura	18	457	1	2.188
Cape May	**2251**	**20124**	**2**	**0.099**
Aedes albopictus	311	757		
Aedes canadensis canadensis	25	398		
Aedes cantator	29	118		
Aedes japonicus	96	174		
Aedes sollicitans	26	78		
Aedes taeniorhynchus	31	505		
Aedes triseriatus	98	143		
Aedes vexans	22	37		
Anopheles bradleyi	65	564		
Anopheles punctipennis	10	12		
Anopheles quadrimaculatus	65	261		
Coquillettidia perturbans	26	324		
Culex erraticus	158	8115		
Culex pipiens	478	4425		
Culex restuans	462	2409	1	0.415
Culex salinarius	146	850	1	1.176
Culex spp.	111	440		
Culiseta melanura	87	509		
Orthopodomyia signifera	4	4		
Uranotaenia sapphirina	1	1		
Cumberland	**177**	**2936**		
Aedes albopictus	17	66		
Aedes atlanticus	3	17		
Aedes canadensis canadensis	3	7		
Aedes japonicus	8	35		
Aedes sollicitans	2	4		
Aedes taeniorhynchus	3	172		
Aedes triseriatus	12	23		
Aedes vexans	8	43		
Anopheles bradleyi	3	187		
Anopheles punctipennis	3	5		
Anopheles quadrimaculatus	4	12		
Coquillettidia perturbans	13	144		
Culex erraticus	7	54		
Culex pipiens	7	24		
Culex restuans	2	5		
Culex salinarius	17	1160		
Culex spp.	29	666		
Culex territans	2	2		
Culiseta melanura	30	255		
Psorophora ciliata	1	8		
Psorophora columbiae	1	23		
Psorophora ferox	2	24		

Essex		**443**	**7399**	**16**	**2.162**
	Aedes albopictus	81	410	1	2.439
	Aedes canadensis canadensis	2	8		
	Aedes grossbecki	2	5		
	Aedes japonicus	58	617	1	1.621
	Aedes sticticus	1	21		
	Aedes stimulans	4	46		
	Aedes triseriatus	36	100		
	Aedes vexans	26	112		
	Anopheles punctipennis	2	3		
	Culex spp.	217	6058	14	2.311
	Psorophora ferox	4	19		
Gloucester		**474**	**10114**	**46**	**4.548**
	Aedes albopictus	40	626	3	4.792
	Aedes canadensis canadensis	1	10		
	Aedes japonicus	15	122		
	Aedes triseriatus	4	10		
	Aedes vexans	7	41		
	Anopheles punctipennis	15	247		
	Anopheles quadrimaculatus	17	239		
	Coquillettidia perturbans	6	12		
	Culex pipiens	251	7691	42	5.461
	Culiseta melanura	115	1043	1	0.959
	Psorophora ferox	3	73		
Hudson		**159**	**9061**	**31**	**3.421**
	Culex spp.	159	9061	31	3.421
Hunterdon		**195**	**9356**	**29**	**3.100**
	Culex spp.	195	9356	29	3.100
Mercer		**248**	**3698**	**43**	**11.628**
	Aedes albopictus	73	544	1	1.838
	Aedes japonicus	37	124		
	Aedes triseriatus	9	23		
	Aedes vexans	4	11		
	Culex erraticus	2	6		
	Culex pipiens	83	2357	32	13.577
	Culex restuans	36	623	10	16.051
	Culex salinarius	2	5		
	Psorophora ciliata	1	4		
	Psorophora ferox	1	1		
Middlesex		**210**	**7698**	**47**	**6.105**
	Aedes albopictus	15	140		
	Aedes japonicus	22	240		
	Aedes triseriatus	1	5		
	Culex spp.	172	7313	47	6.427
Monmouth		**379**	**380**	**7**	**2.071**
	Aedes albopictus	55	309		
	Aedes canadensis canadensis	15	103		
	Aedes cantator	8	29		

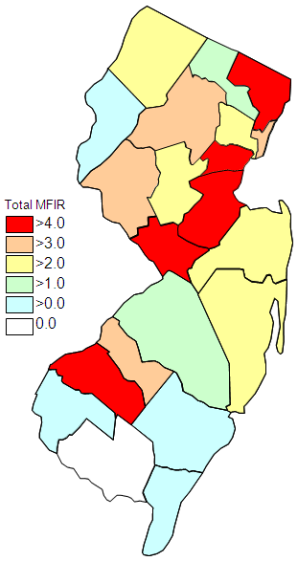
	Aedes japonicus	45	152		
	Aedes sollicitans	8	32		
	Aedes taeniorhynchus	8	129		
	Aedes triseriatus	26	74		
	Aedes trivittatus	9	23		
	Aedes vexans	11	27		
	Anopheles barberi	5	5		
	Anopheles punctipennis	12	22		
	Anopheles quadrimaculatus	3	5		
	Coquillettidia perturbans	6	29		
	Culex erraticus	1	1		
	Culex pipiens	2	3		
	Culex restuans	4	4		
	Culex salinarius	1	16		
	Culex spp.	117	2163	7	3.236
	Culiseta melanura	34	176		
	Psorophora ciliata	1	1		
	Psorophora columbiae	2	16		
	Psorophora ferox	6	61		
Morris		**197**	**7202**	**23**	**3.194**
	Aedes albopictus	2	14		
	Aedes japonicus	10	168		
	Coquillettidia perturbans	2	65		
	Culex spp.	183	6955	23	3.307
Ocean		**356**	**3508**	**9**	**2.566**
	Aedes albopictus	78	1384		
	Aedes atlanticus	2	9		
	Aedes canadensis canadensis	8	8		
	Aedes cantator	8	10		
	Aedes japonicus	31	76		
	Aedes sollicitans	3	28		
	Aedes taeniorhunchus	2	4		
	Aedes triseriatus	16	28		
	Aedes trivittatus	4	4		
	Aedes vexans	18	84		
	Anopheles bradleyi	5	10		
	Anopheles punctipennis	13	32		
	Anopheles quadrimaculatus	4	5		
	Coquillettidia perturbans	19	103		
	Culex erraticus	2	2		
	Culex restuans	11	13		
	Culex salinarius	6	16		
	Culex spp.	83	1470	7	4.762
	Culiseta melanura	29	68	2	29.412
	Psorophora ciliata	1	7		
	Psorophora columbiae	1	1		
	Psorophora ferox	11	145		
Passaic		**109**	**2169**	**3**	**1.383**
	Aedes albopictus	13	128		
	Aedes canadensis canadensis	3	10		
	Aedes japonicus	16	163		
	Aedes triseriatus	7	28		
	Aedes trivittatus	4	32		

	Aedes vexans	1	4		
	Anopheles punctipennis	1	1		
	Coquillettidia perturbans	1	3		
	Culex spp.	63	1800	3	1.667
Salem		**218**	**2985**	**1**	**0.335**
	Aedes albopictus	18	36		
	Aedes aurifer	1	2		
	Aedes canadensis canadensis	3	19		
	Aedes cantator	1	2		
	Aedes japonicus	17	42		
	Aedes sollicitans	2	4		
	Aedes triseriatus	16	36		
	Aedes vexans	15	111		
	Anopheles bradleyi	3	3		
	Anopheles punctipennis	8	11		
	Anopheles quadrimaculatus	14	97		
	Coquillettidia perturbans	8	22		
	Culex erraticus	18	601		
	Culex pipiens	4	8		
	Culex restuans	8	18		
	Culex spp.	57	1376		
	Culiseta inornata	1	2		
	Culiseta melanura	20	542	1	1.845
	Psorophora columbiae	4	53		
Somerset		**173**	**1920**	**5**	**2.604**
	Aedes albopictus	20	87		
	Aedes japonicus	13	126		
	Aedes triseriatus	6	32		
	Aedes trivittatus	2	40		
	Aedes vexans	2	29		
	Anopheles punctipennis	3	10		
	Coquillettidia perturbans	1	1		
	Culex spp.	125	1585	5	3.155
	Psorophora ferox	1	10		
Sussex		**219**	**7461**	**15**	**2.010**
	Aedes japonicus	18	329	1	3.040
	Coquillettidia perturbans	1	57		
	Culex pipiens	1	43		
	Culex restuans	5	12		
	Culex spp.	188	6989	14	2.003
	Culiseta melanura	6	31		
Union		**135**	**3751**	**16**	**4.266**
	Aedes albopictus	40	521	1	1.919
	Aedes japonicus	3	14		
	Culex spp.	92	3216	15	4.664
Warren		**311**	**14692**	**14**	**0.953**
	Aedes cinereus	3	5		
	Aedes japonicus	5	20		
	Aedes stimulans	1	1		
	Aedes triseriatus	3	12		

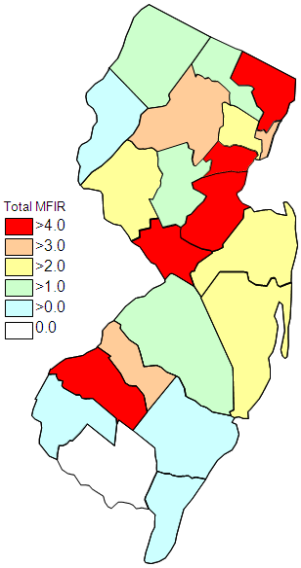
	Aedes trivittatus	6	139		
	Aedes vexans	7	61		
	Anopheles barberi	1	1		
	Anopheles punctipennis	9	39		
	Anopheles quadrimaculatus	7	34		
	Anopheles walkeri	1	7		
	Coquillettidia perturbans	2	3		
	Culex spp.	259	14331	14	0.977
	Culiseta inornata	1	1		
	Culiseta melanura	1	1		
	Psorophora ferox	2	5		
	Uranotaenia sapphirina	3	32		
Grand Total		**7,190**	**150,040**	**427**	**2.846**



Cumulative WNV activity in 2010.



WNV activity to 14 September 2011.



WNV activity last week, 2011.

Saint Louis Encephalitis (SLE) through 14 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		**444**	**14889**		
	Aedes albopictus	29	281		
	Aedes atlanticus	4	47		
	Aedes atropalpus	3	4		
	Aedes canadensis canadensis	15	662		
	Aedes cantator	2	63		
	Aedes grossbecki	1	3		
	Aedes japonicus	12	61		
	Aedes mithcellae	1	28		
	Aedes sollicitans	7	129		
	Aedes sticticus	1	3		
	Aedes taeniorhynchus	9	69		
	Aedes triseriatus	11	68		
	Aedes vexans	15	538		
	Anopheles bradleyi	4	260		
	Anopheles crucians	2	41		
	Anopheles punctipennis	3	17		
	Anopheles quadrimaculatus	1	5		
	Coquillettidia perturbans	29	805		
	Culex erraticus	11	529		
	Culex pipiens	10	136		
	Culex restuans	4	26		
	Culex salinarius	17	230		
	Culex spp.	192	9392		

	Culex erraticus	1	14		
	Culiseta melanura	50	1300		
	Psorophora ciliata	1	35		
	Psorophora columbiae	3	26		
	Psorophora ferox	1	7		
	Psorophora howardii	4	35		
	Uranotaenia sapphirina	1	75		
Camden		**179**	**3772**		
	Aedes albopictus	44	262		
	Aedes japonicus	25	58		
	Aedes triseriatus	4	8		
	Aedes vexans	1	1		
	Anopheles punctipennis	3	3		
	Anopheles quadrimaculatus	1	2		
	Culex erraticus	2	7		
	Culex spp.	99	3431		
Cumberland		**1**	**1**		
	Aedes triseriatus	1	1		
Essex		**433**	**7399**		
	Aedes albopictus	81	410		
	Aedes canadensis canadensis	2	8		
	Aedes grossbecki	2	5		
	Aedes japonicus	58	617		
	Aedes sticticus	1	21		
	Aedes stimulans	4	46		
	Aedes triseriatus	36	100		
	Aedes vexans	26	112		
	Anopheles punctipennis	2	3		
	Culex spp.	217	6058		
	Psorophora ferox	4	19		
Hudson		**144**	**8287**		
	Culex spp.	144	8287		
Grand Total		**1,201**	**34,348**		

La Crosse Encephalitis (LAC) through 14 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		**91**	**134**		
	Aedes japonicus	1	1		
	Aedes triseriatus	90	133		
Cumberland		**14**	**27**		
	Aedes triseriatus	14	27		
Salem		**7**	**16**		
	Aedes triseriatus	7	16		
Grand Total		**113**	**186**		