VECTOR SURVEILLANCE IN NEW JERSEY

EEE, WNV, SLE and LAC

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CDC WEEK 39: September 25 to October 1, 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	1.78	0.72	98†	15	0	
Corbin City (Atlantic County)	Coastal	0.80	1.08	167†	15	0	
Dennisville (Cape May County)	Coastal	1.44	0.04	217	18	0	
Winslow (Camden County)	Inland	0.81	0.24	479	20	0	
Centerton (Salem County)	Inland	1.71	4.72	809	25	0	
Turkey Swamp (Monmouth County)	Inland	0.31	1.86	333†	35	0	
Glassboro (Gloucester County)	Inland	1.20	0.48	456	19	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 2431 mosquitoes from 143 pools. Samples from Green Bank, Corbin City and Turkey Swamp will be analyzed later this week.

Three hundred twenty-eight additional pools containing 2,995 *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	1656 (64)	0	
Cape May	CO2, Gravid, RB	338 (80)	0	
Cumberland	CO2, Gravid, RB	269 (33)	0	
Gloucester	RB	712 (112)	0	
Ocean	CO2, Gravid, RB	82 (33)	0	
Salem	BA, Gravid	10 (4)	0	
Sussex	CO2	14 (1)	0	
TOTAL		**2995 (328)**	**0**	

Species other than *Cs. melanura*	Pools	Mosquitoes	Positives	MFIR
Aedes albopictus	52	360		
Aedes atlanticus	6	60		
Aedes atropalpus	3	4		
Aedes canadensis canadensis	33	1495		
Aedes cantator	44	233		
Aedes grossbecki	1	3		
Aedes japonicus	23	83		
Aedes mitchellae	1	28		
Aedes sollicitans	37	237		
Aedes sticticus	1	3		
Aedes taeniorhynchus	22	411		
Aedes thibaulti	1	1		
Aedes triseriatus	17	86		
Aedes trivittatus	1	7		
Aedes vexans	19	680		
Anopheles barberi	2	2		
Anopheles bradleyi	77	941		
Anopheles crucians	4	51		
Anopheles punctipennis	32	303		
Anopheles quadrimaculatus	30	291		
Coquillettidia perturbans	86	1355		
Culex erraticus	192	9101		
Culex pipiens	416	3211		
Culex restuans	36	82		
Culex salinarius	172	1162		
Culex spp.	327	10722		
Culex territans	1	14		
Psorophora ciliata	1	35		
Psorophora columbiae	6	147		
Psorophora ferox	6	87		
Psorophora howardii	4	35		
Uranotaenia sapphirina	2	79		
State Total	**1655**	**31,309**		

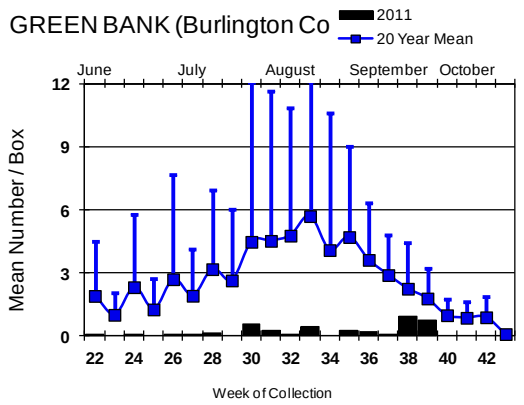
The table to the left indicates non-*Cs. melanura* mosquitoes tested for EEE. An addition 31 species of mosquitoes have been tested with no detection of EEE.

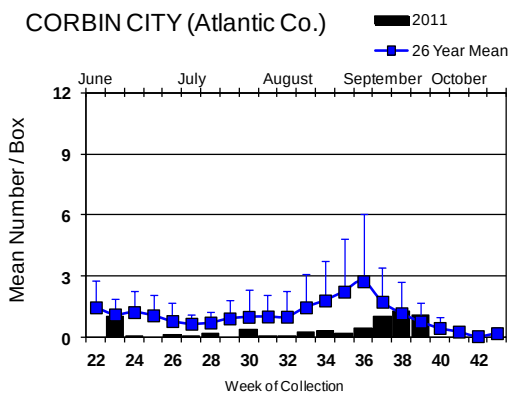
Horses and Humans: No positive horses or humans to date.

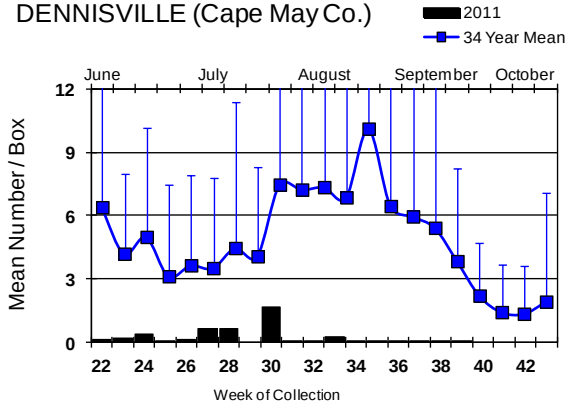
Horses and Vaccinations: The fate of unvaccinated equids reinforces the necessity of maintaining a vaccination schedule for arboviruses. For vaccination schedules recommended by the American Association of Equine Practices, see: http://www.aaep.org/vaccination_guidelines.htm

Culiseta melanura Population Graphs

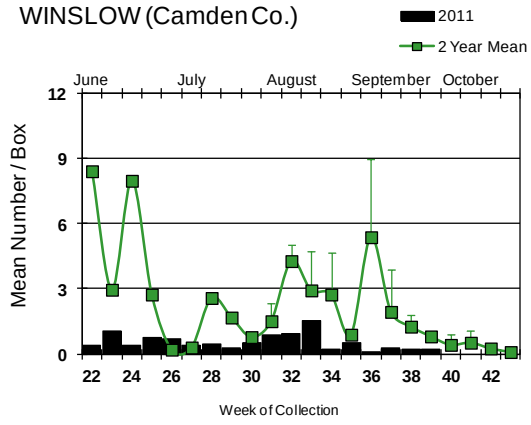
Coastal

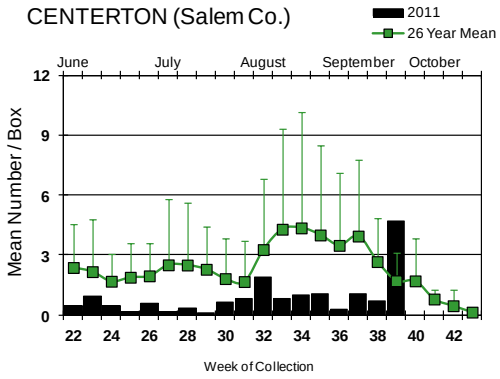


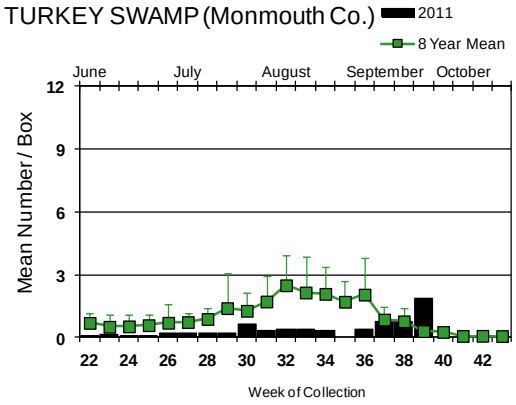




Inland



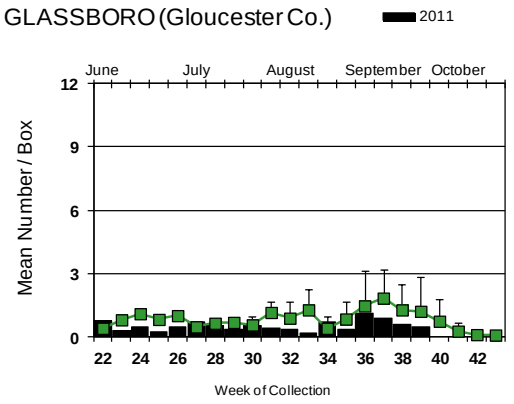




Populations of *Cs. melanura* at Corbin City, Centerton and Turkey Swamp were above historical levels and all three sites averaged above one mosquito per box. Light trap data in the Pinelands also indicate a buildup of the second generation of *Culiseta melanura*.

= 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) 77(MA) 33(NY) 1(NC)
- sentinel: 20 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	124/127	11	2	27/30
Arkansas					
California	463/526	1806/1896	217/252	8/10	67/87
Colorado	0	59		0	6
Connecticut		152/161			8
Delaware	12/13		5/6	1	1
DC	5	22/31			1
Florida	1 flavi		73/84	1	17/21
Georgia	1	349/374		1/2	4/8
Hawaii					
Idaho		2			1
Illinois	19	937/976	0	0	10/17
Indiana	1	138/179		2/3	6
Iowa		2	14	1	5/6
Kansas					
Kentucky		2/4		1	
Louisiana		239	2/3		6/8
Maine		0		0	0
Maryland	6	14/17			13/18
Mass.		262/271		1	2/3
Michigan	8/10	17	0	0	15/18
Minnesota	3/4	1/3		1	
Mississippi		31		1	39/46
Missouri		109/111		0	5

	Birds	Mosquito Pools	Sentinels	Horses	Humans
Montana					
Nebraska	2	46/49		1	23
Nevada	2	8		1	10/13
New Hampshire		7/8		0	0
New Jersey	25/33	457/485		0	4
New Mexico					2
New York		427/446		3*	27/32
North Carolina				1	1/2
North Dakota	0	0		5*	4
Ohio		570		3/4	11/15
Oklahoma		1			
Oregon	0	2/3	0	1/2	0
Pennsylvania	43/45	1334/1384		10*	4
Rhode Island		1/2		0	1
South Carolina	0	1/5		0	0
South Dakota		2		0	1
Tennessee	0	586		3	8/14
Texas	11	633/642		2	20
Utah		23	0	1	2/3
Vermont	9/1	3		0	2
Virginia		47	1	1	5
Washington	0	4/5		0	0
West Virginia	0	1/11		0	1
Wisconsin	5/10	0		2/3	0
Wyoming		10		0	1/3

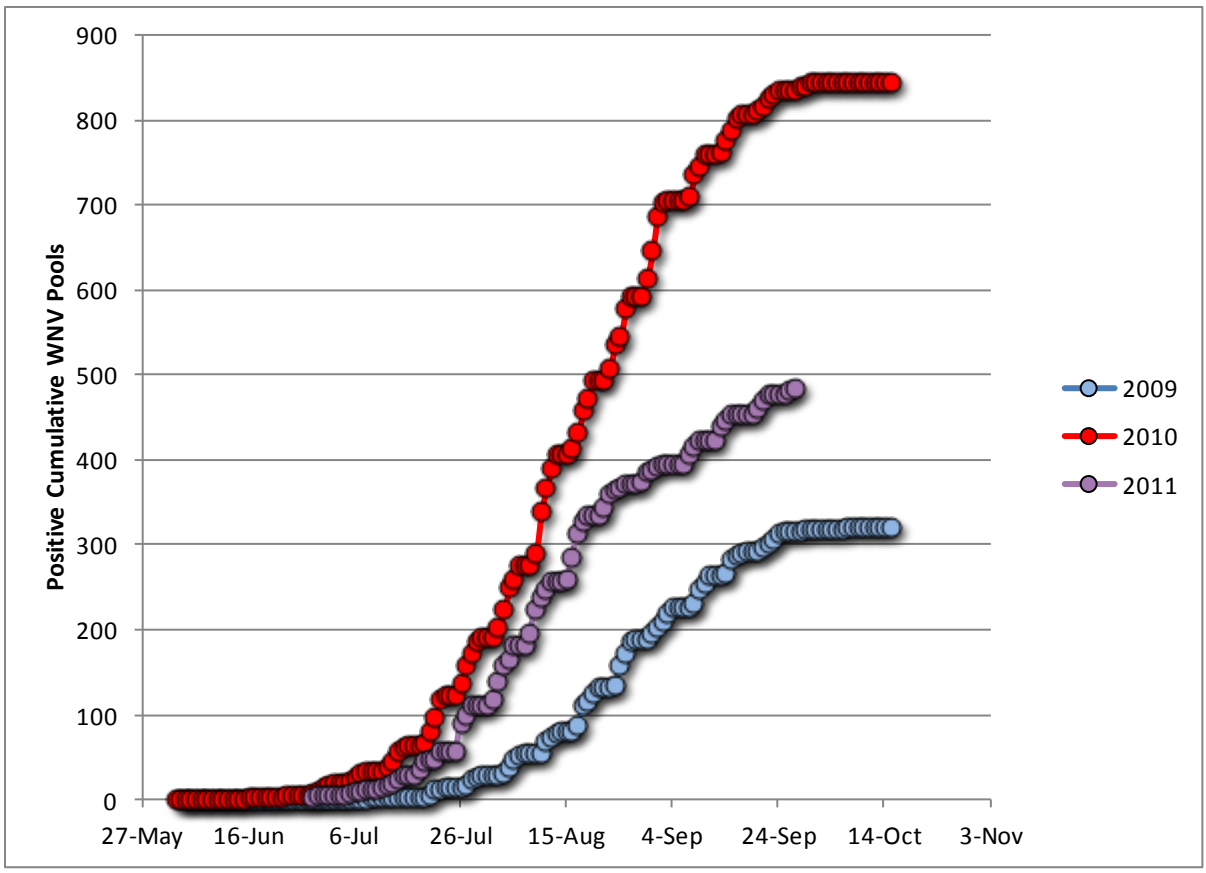
* Can include other species (e.g., dogs, cows) reported positive.

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 27 Sept. 2011

Species	Pools	Mosquitoes	Positives	MFIR
Aedes albopictus	986	6580	6	0.912
Aedes atlanticus	18	140		
Aedes atropalpus	3	4		
Aedes aurifer	1	2		
Aedes canadensis canadensis	119	2639		
Aedes cantator	69	334		
Aedes cinereus	3	5		
Aedes grossbecki	3	8		
Aedes japonicus	510	3034	3	0.989
Aedes mitchellae	1	28		
Aedes sollicitans	59	371		
Aedes sticticus	2	24		
Aedes stimulans	5	47		
Aedes taeniorhynchus	70	1187		
Aedes thibaulti	1	1		
Aedes triseriatus	301	685		
Aedes trivittatus	46	465		
Aedes vexans	181	1848		
Anopheles barberi	7	7		
Anopheles bradleyi	99	1348	1	0.742
Anopheles crucians	5	53		
Anopheles punctipennis	97	461		
Anopheles quadrimaculatus	131	738		
Anopheles walkeri	1	7		
Coquillettidia perturbans	122	1662		
Culex erraticus	219	9789		
Culex pipiens	944	16327	78	4.777
Culex restuans	571	3209	11	3.428
Culex salinarius	202	2363	1	0.423
Culex spp.	2869	108395	375	3.460
Culex territans	3	16		
Culiseta inornata	2	3		
Culiseta melanura	484	5482	9	1.642
Orthopodomyia signifera	5	5		
Psorophora ciliata	6	63		
Psorophora columbiae	20	249		
Psorophora ferox	64	1066	1	0.938
Psorophora howardii	6	42		
Uranotaenia sapphirina	8	114		
State Total	**8,243**	**168,801**	**485**	**2.873**

Remarks: To date, there have been 168,801 mosquitoes tested in 8,243 pools from 38 species. Currently, 485 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*. Current positive pool is from Atlantic County. Dates for all positive samples were collected were between 28 June and 20 September.



Activity continues to diverge from the more active 2010 season. As past seasons came to an end, cumulative positive pools lines began to flatten out (2009 and 2010) over the next few weeks. (Positives continued to be found, but at low rates which are difficult to see at the scale of the graph).

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-three birds from the 106 birds that have been tested. Species include American Crow *Corvus brachyrhynchos* (12/14), Blue Jays *Cyanocitta cristata* (5/12), Fish Crows *Corvus ossifragus* (6/22) 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 and Warren counties. Counties submitting birds are Atlantic, Burlington, Cape May, Cumberland, Gloucester, Mercer, Monmouth, Morris, Ocean, Salem, Somerset, Sussex 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
485 / 8,243 (0.059)	835 / 5,383 (0.155)
2011 Positive Birds to date / Total Birds Submitted	This time last year
33 / 106 (0.311)	128 / 241 (0.531)

WNV Results by County through 27 September 2011

County	Species	Pools	Mosquitoes	Positives	MFIR
Atlantic		**193**	**5476**	**3**	**0.548**
	Aedes albopictus	16	396		
	Aedes canadensis canadensis	5	77		
	Aedes cantator	3	20		

	Aedes japonicus	5	20		
	Aedes sollicitans	5	48		
	Aedes taeniorhynchus	8	123		
	Aedes thibaulti	1	1		
	Aedes triseriatus	7	16		
	Aedes trivittatus	2	10		
	Aedes vexans	15	229		
	Anopheles bradleyi	3	16		
	Anopheles punctipennis	2	2		
	Anopheles quadrimaculatus	1	2		
	Coquillettidia perturbans	5	63		
	Culex erraticus	5	187		
	Culex restuans	1	1		
	Culex spp.	78	3573	2	0.560
	Culiseta melanura	16	171		
	Orthopodomyia signifera	1	1		
	Psorophora columbiae	1	2		
	Psorophora ferox	11	511	1	1.957
	Psorophora howardii	2	7		
Bergen		**160**	**10841**	**92**	**8.486**
	Aedes albopictus	5	15		
	Aedes japonicus	7	45	1	22.222
	Aedes vexans	4	126		
	Anopheles punctipennis	2	5		
	Culex spp.	142	10650	91	8.545
Burlington		**554**	**17692**	**30**	**1.696**
	Aedes albopictus	34	321		
	Aedes atlanticus	6	60		
	Aedes atropalpus	3	4		
	Aedes canadensis canadensis	30	1484		
	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	13	81		
	Aedes trivittatus	1	7		
	Aedes vexans	17	678		
	Anopheles bradleyi	8	357	1	2.801
	Anopheles crucians	4	51		
	Anopheles punctipennis	5	30		
	Anopheles quadrimaculatus	1	5		
	Coquillettidia perturbans	29	805		
	Culex erraticus	11	529		
	Culex pipiens	13	227	2	8.811
	Culex restuans	7	43		
	Culex salinarius	22	273		
	Culex spp.	221	10341	23	2.224
	Culex territans	1	14		
	Culiseta melanura	78	1645	4	2.432
	Psorophora ciliata	1	35		
	Psorophora columbiae	6	147		

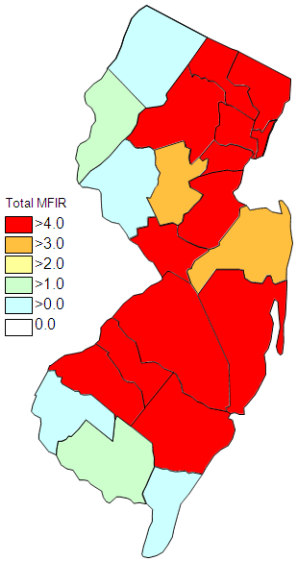
	Psorophora ferox	4	85		
	Psorophora howardii	4	35		
	Uranotaenia sapphirina	2	79		
Camden		**247**	**5878**	**19**	**3.232**
	Aedes albopictus	49	282		
	Aedes japonicus	29	64		
	Aedes triseriatus	4	8		
	Aedes vexans	1	1		
	Anopheles punctipennis	3	3		
	Anopheles quadrimaculatus	1	2		
	Culex erraticus	2	7		
	Culex pipiens	3	135		
	Culex spp.	135	4897	18	3.676
	Culiseta melanura	20	479	1	2.088
Cape May		**2457**	**21347**	**3**	**0.141**
	Aedes albopictus	343	811		
	Aedes canadensis canadensis	29	511		
	Aedes cantator	41	145		
	Aedes japonicus	101	180		
	Aedes sollicitans	27	103		
	Aedes taeniorhynchus	35	513		
	Aedes triseriatus	117	167		
	Aedes trivittatus	1	1		
	Aedes vexans	27	61		
	Anopheles bradleyi	74	624		
	Anopheles punctipennis	12	14		
	Anopheles quadrimaculatus	70	288		
	Coquillettidia perturbans	26	324		
	Culex erraticus	168	8390		
	Culex pipiens	522	4825	1	0.207
	Culex restuans	490	2474	1	0.404
	Culex salinarius	153	892	1	1.121
	Culex spp.	116	457		
	Culiseta melanura	99	556		
	Orthopodomyia signifera	4	4		
	Psorophora ferox	1	6		
	Uranotaenia sapphirina	1	1		
Cumberland		**205**	**3483**		
	Aedes albopictus	24	88		
	Aedes atlanticus	3	17		
	Aedes canadensis canadensis	4	26		
	Aedes cantator	2	28		
	Aedes japonicus	8	35		
	Aedes sollicitans	4	24		
	Aedes taeniorhynchus	6	337		
	Aedes triseriatus	14	26		
	Aedes vexans	8	43		
	Anopheles bradleyi	5	337		
	Anopheles punctipennis	3	5		
	Anopheles quadrimaculatus	4	12		
	Coquillettidia perturbans	13	144		
	Culex erraticus	10	66		
	Culex pipiens	7	24		

	Culex restuans	2	5		
	Culex salinarius	17	1160		
	Culex spp.	32	780		
	Culex territans	2	2		
	Culiseta melanura	33	269		
	Psorophora ciliata	1	8		
	Psorophora columbiae	1	23		
	Psorophora ferox	2	24		
Essex		**484**	**7595**	**16**	**2.107**
	Aedes albopictus	95	474	1	2.110
	Aedes canadensis canadensis	2	8		
	Aedes grossbecki	2	5		
	Aedes japonicus	68	635	1	1.575
	Aedes sticticus	1	21		
	Aedes stimulans	4	46		
	Aedes triseriatus	41	107		
	Aedes vexans	29	118		
	Anopheles punctipennis	3	4		
	Culex spp.	235	6158	14	2.273
	Psorophora ferox	4	19		
Gloucester		**573**	**11399**	**46**	**4.035**
	Aedes albopictus	57	759	3	3.953
	Aedes canadensis canadensis	2	23		
	Aedes japonicus	20	156		
	Aedes triseriatus	7	19		
	Aedes vexans	11	219		
	Anopheles punctipennis	18	278		
	Anopheles quadrimaculatus	25	287		
	Coquillettidia perturbans	8	41		
	Culex pipiens	285	8336	42	5.038
	Culiseta melanura	132	1171	1	0.854
	Psorophora ciliata	1	8		
	Psorophora ferox	7	102		
Hudson		**188**	**10288**	**34**	**3.305**
	Culex spp.	188	10288	34	3.305
Hunterdon		**222**	**10661**	**36**	**3.377**
	Culex spp.	222	10661	36	3.377
Mercer		**300**	**4140**	**44**	**10.628**
	Aedes albopictus	90	594	1	1.684
	Aedes japonicus	43	135		
	Aedes triseriatus	11	27		
	Aedes vexans	4	11		
	Culex erraticus	2	6		
	Culex pipiens	106	2725	33	12.110
	Culex restuans	39	630	10	15.873
	Culex salinarius	2	5		
	Culex spp.	1	2		
	Psorophora ciliata	1	4		
	Psorophora ferox	1	1		

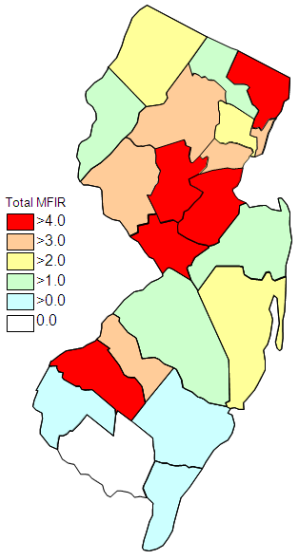
Middlesex		**230**	**8524**	**53**	**6.218**
	Aedes albopictus	17	152		
	Aedes japonicus	22	240		
	Aedes triseriatus	1	5		
	Culex spp.	190	8127	53	6.521
Monmouth		**432**	**3929**	**7**	**1.782**
	Aedes albopictus	60	330		
	Aedes atlanticus	1	2		
	Aedes canadensis canadensis	22	370		
	Aedes cantator	10	33		
	Aedes japonicus	47	156		
	Aedes sollicitans	9	33		
	Aedes taeniorhynchus	10	141		
	Aedes triseriatus	30	78		
	Aedes trivittatus	16	106		
	Aedes vexans	14	41		
	Anopheles barberi	5	5		
	Anopheles crucians	1	2		
	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.	127	2204	7	3.176
	Culiseta melanura	37	258		
	Psorophora ciliata	1	1		
	Psorophora columbiae	3	17		
	Psorophora ferox	10	72		
Morris		**230**	**7695**	**25**	**3.249**
	Aedes albopictus	2	14		
	Aedes japonicus	12	187		
	Coquillettidia perturbans	2	65		
	Culex spp.	214	7429	25	3.365
Ocean		**438**	**4124**	**10**	**2.425**
	Aedes albopictus	90	1484		
	Aedes atlanticus	8	61		
	Aedes canadensis canadensis	19	111		
	Aedes cantator	9	41		
	Aedes japonicus	37	85		
	Aedes sollicitans	4	29		
	Aedes taeniorhunchus	2	4		
	Aedes triseriatus	18	30		
	Aedes trivittatus	12	58		
	Aedes vexans	23	98		
	Anopheles bradleyi	6	11		
	Anopheles punctipennis	14	33		
	Anopheles quadrimaculatus	4	5		
	Coquillettidia perturbans	20	105		
	Culex erraticus	2	2		
	Culex restuans	11	13		
	Culex salinarius	7	17		

	Culex spp.	95	1659	8	4.822
	Culiseta melanura	33	82	2	24.390
	Psorophora ciliata	1	7		
	Psorophora columbiae	2	2		
	Psorophora ferox	19	185		
	Uranotaenia sapphirina	2	2		
Passaic		**119**	**2227**	**4**	**1.796**
	Aedes albopictus	15	132		
	Aedes canadensis canadensis	3	10		
	Aedes japonicus	19	175		
	Aedes triseriatus	7	28		
	Aedes trivittatus	4	32		
	Aedes vexans	1	4		
	Anopheles punctipennis	1	1		
	Coquillettidia perturbans	1	3		
	Culex spp.	68	1842	4	2.172
Salem		**264**	**3352**	**1**	**0.298**
	Aedes albopictus	22	42		
	Aedes aurifer	1	2		
	Aedes canadensis canadensis	3	19		
	Aedes cantator	2	4		
	Aedes japonicus	24	55		
	Aedes sollicitans	3	5		
	Aedes triseriatus	21	45		
	Aedes vexans	17	113		
	Anopheles barberi	1	1		
	Anopheles bradleyi	3	3		
	Anopheles punctipennis	10	15		
	Anopheles quadrimaculatus	15	98		
	Coquillettidia perturbans	8	22		
	Culex erraticus	18	601		
	Culex pipiens	5	9		
	Culex restuans	12	27		
	Culex spp.	62	1412		
	Culiseta inornata	1	2		
	Culiseta melanura	29	819	1	1.221
	Psorophora columbiae	7	58		
Somerset		**203**	**2616**	**11**	**4.205**
	Aedes albopictus	20	87		
	Aedes japonicus	16	141		
	Aedes triseriatus	7	36		
	Aedes trivittatus	4	112		
	Aedes vexans	3	45		
	Anopheles punctipennis	3	10		
	Coquillettidia perturbans	1	1		
	Culex spp.	146	2128	11	5.169
	Psorophora ferox	3	56		
Sussex		**260**	**8447**	**19**	**2.249**
	Aedes japonicus	32	630	1	1.587
	Coquillettidia perturbans	1	57		
	Culex pipiens	1	43		

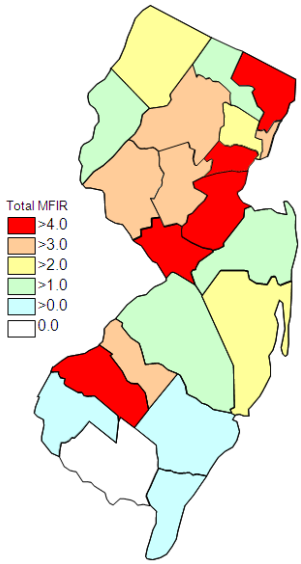
	Culex restuans	5	12		
	Culex spp.	215	7674	18	2.346
	Culiseta melanura	6	31		
Union		**159**	**4307**	**17**	**3.947**
	Aedes albopictus	47	599	1	1.669
	Aedes japonicus	3	14		
	Culex spp.	109	3694	16	4.331
Warren		**325**	**14780**	**15**	**1.015**
	Aedes cinereus	3	5		
	Aedes japonicus	5	20		
	Aedes 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.	273	14419	15	1.040
	Culiseta inornata	1	1		
	Culiseta melanura	1	1		
	Psorophora ferox	2	5		
	Uranotaenia sapphirina	3	32		
Grand Total		**8,243**	**168,801**	**485**	**2.873**



Cumulative WNV activity in 2010.



WNV activity to 27 September 2011.



WNV activity last week, 2011.

Saint Louis Encephalitis (SLE) through 27 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		**533**	**17604**		
	Aedes albopictus	32	319		
	Aedes atlanticus	6	60		
	Aedes atropalpus	3	4		
	Aedes canadensis canadensis	29	1483		
	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	13	81		
	Aedes trivittatus	1	7		
	Aedes vexans	17	678		
	Anopheles bradleyi	7	355		
	Anopheles crucians	4	51		
	Anopheles punctipennis	5	30		
	Anopheles quadrimaculatus	1	5		
	Coquillettidia perturbans	29	805		
	Culex erraticus	11	529		
	Culex pipiens	13	227		
	Culex restuans	6	42		
	Culex salinarius	21	272		

	Culex spp.	220	10340		
	Culex erraticus	1	14		
	Culiseta melanura	64	1565		
	Psorophora ciliata	1	35		
	Psorophora columbiae	6	147		
	Psorophora ferox	4	85		
	Psorophora howardii	4	35		
	Uranotaenia sapphirina	2	79		
Camden		**227**	**5399**		
	Aedes albopictus	49	282		
	Aedes japonicus	29	64		
	Aedes triseriatus	4	8		
	Aedes vexans	1	1		
	Anopheles punctipennis	3	3		
	Anopheles quadrimaculatus	1	2		
	Culex erraticus	2	7		
	Culex pipiens	3	135		
	Culex spp.	135	4897		
Cumberland		**1**	**1**		
	Aedes triseriatus	1	1		
Essex		**484**	**7595**		
	Aedes albopictus	95	474		
	Aedes canadensis canadensis	2	8		
	Aedes grossbecki	2	5		
	Aedes japonicus	68	635		
	Aedes sticticus	1	21		
	Aedes stimulans	4	46		
	Aedes triseriatus	41	107		
	Aedes vexans	29	118		
	Anopheles punctipennis	3	4		
	Culex spp.	235	6158		
	Psorophora ferox	4	19		
Hudson		**173**	**9514**		
	Culex spp.	173	9514		
Grand Total		**1,418**	**40,113**		

La Crosse Encephalitis (LAC) through 27 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		**110**	**158**		
	Aedes japonicus	1	1		
	Aedes triseriatus	109	157		
Cumberland		**16**	**30**		
	Aedes triseriatus	16	30		
Salem		**7**	**16**		
	Aedes triseriatus	7	16		
Warren		**1**	**9**		
	Aedes triseriatus	1	9		
Grand Total		**134**	**213**		