VECTOR SURVEILLANCE IN NEW JERSEY

EEE, WNV, SLE and LAC

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CDC WEEK 36: September 4 to September 10, 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	3.68	0.20	52	11	0	
Corbin City (Atlantic County)	Coastal	2.77	0.48	82†	12	0	
Dennisville (Cape May County)	Coastal	5.96	0.04	209‡	15	0	
Winslow (Camden County)	Inland	5.38	0.10	443‡	17	0	
Centerton (Salem County)	Inland	3.48	0.26	487‡	16	0	
Turkey Swamp (Monmouth County)	Inland	2.05	0.38	163†	31	0	
Glassboro (Gloucester County)	Inland	1.46	1.1	361‡	16	0	

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

Remarks: The traditional resting box sites for the collection of *Culiseta melanura*, the primary enzootic vector, show no detectable EEE activity. Testing has been delayed due to disruptions from Hurricane Irene at the Cape May Labs (including Centerton, Dennisville Glassboro and Winslow sites). Total number of *Culiseta melanura* tested to date is 1603 from 107 pools. The table above shows current numbers collected. When testing resumes at the Cape May Labs, the numbers in the table above will become in synch again with what has been tested.

Two hundred fifty-one additional pools containing 2,386 *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	1170 (44)	0	
Cape May	CO2, Gravid, RB	276 (59)	0	
Cumberland	CO2, Gravid, RB	243 (27)	0	
Gloucester	RB	614 (91)	0	
Ocean	CO2, Gravid, RB	66 (28)	0	
Salem	BA	3 (1)	0	
Sussex	CO2	14 (1)	0	
TOTAL		**2386 (251)**	**0**	

Species other than *Cs. melanura*	Pools	Mosquitoes	Positives	MFIR
Aedes albopictus	32	271		
Aedes atlanticus	4	47		
Aedes atropalpus	3	4		
Aedes canadensis canadensis	16	617		
Aedes cantator	29	201		
Aedes grossbecki	1	3		
Aedes japonicus	18	67		
Aedes sollicitans	29	201		
Aedes sticticus	1	3		
Aedes taeniorhynchus	20	389		
Aedes thibaulti	1	1		
Aedes triseriatus	11	67		
Aedes vexans	15	501		
Anopheles barberi	2	2		
Anopheles bradleyi	55	796		
Anopheles crucians	1	2		
Anopheles punctipennis	27	268		
Anopheles quadrimaculatus	23	240		
Coquillettidia perturbans	83	1351		
Culex erraticus	142	6749		
Culex pipiens	353	2810		
Culex restuans	23	46		
Culex salinarius	143	1052		
Culex spp.	260	8697		
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	**1304**	**24,578**		

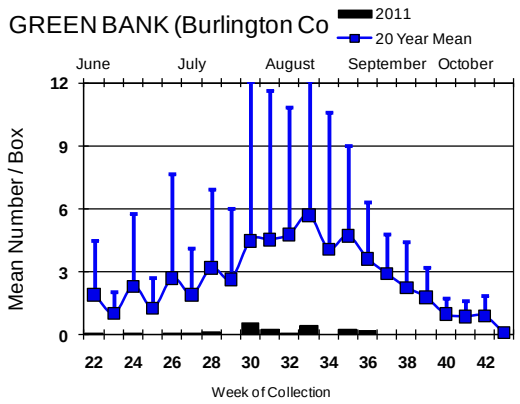
The table to the left indicates non-*Cs. melanura* mosquitoes tested for EEE. An addition 29 species of mosquitoes have been tested with no detection of EEE.

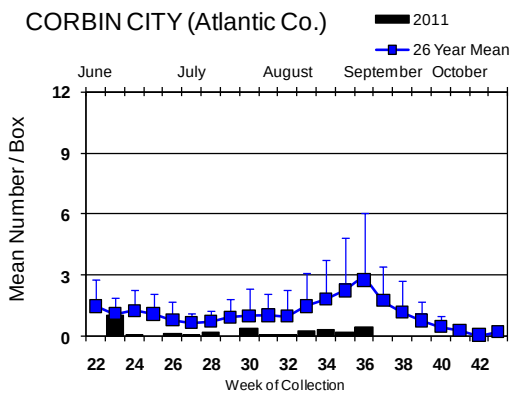
Horses and Humans: No positive horses or humans to date.

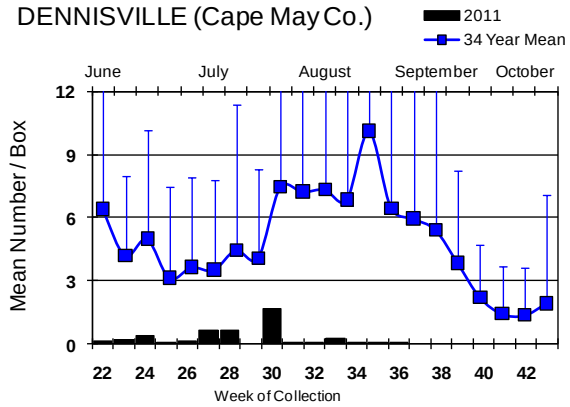
Horses and Vaccinations: The fate of unvaccinated equids reinforces the necessity of maintaining a vaccination schedule for arboviruses. For vaccination schedules recommended by the American Association of Equine Practices, see: http://www.aaep.org/vaccination_guidelines.htm

Culiseta melanura Population Graphs

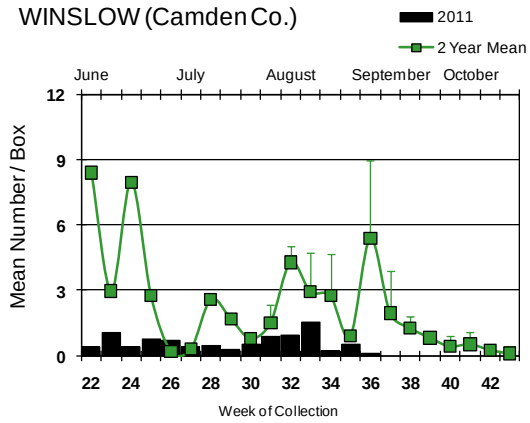
Coastal

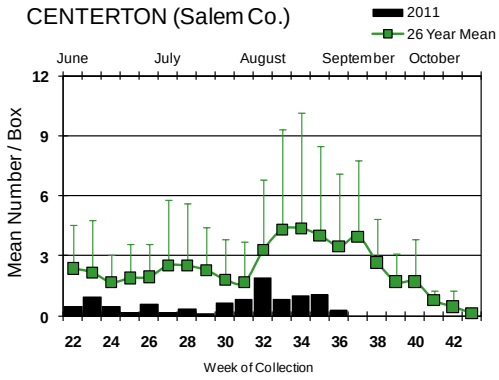


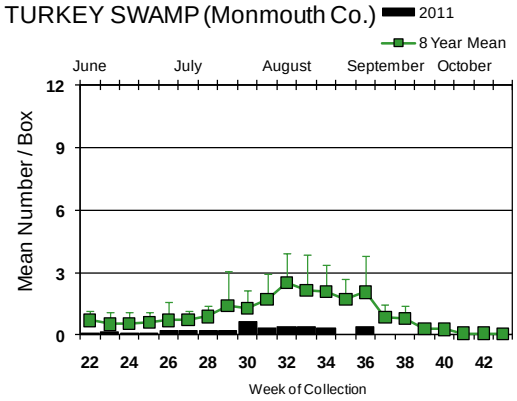




Inland



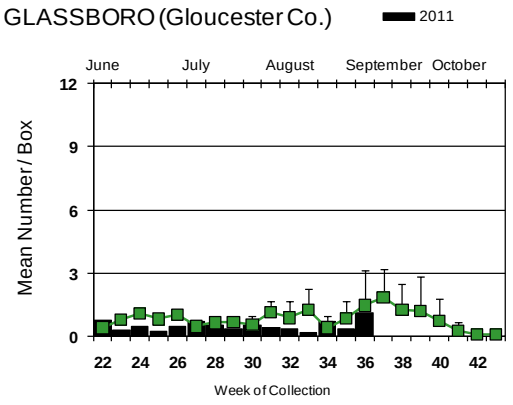




Most of the traditional resting box sites continue to show abundance values of less than one *Cs. melanura* per resting box and remain below the historical trends. Only the site at Glassboro showed values slightly higher than one melanura per box, yet also below historical trends. Light trap data has been showing an increase in the Pinelands region consistent with the increase of the second generation (but overall trends for light trap data is also below historical trends).

= 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) 58(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	99/108	9/11	2	22/24
Arkansas					
California	302/358	1265/1479	99/135	2/5	27/33
Colorado	0	47/59		0	2/5
Connecticut		128/132			1/3
Delaware	12		2		
DC	5	22/31			
Florida	1 flavi		60/68	1	11/13
Georgia		296/349		1	2/3
Hawaii					
Idaho		2			1
Illinois	9/12	564/664	0	0	4
Indiana	1	79/110		1/2	3/4
Iowa		2	12	1	0
Kansas					
Kentucky		2		1	
Louisiana		216	1		2/4
Maine		0		0	0
Maryland	3	12			4
Mass.		203/230		1	1
Michigan	2	1/9	0	0	2/6
Minnesota	3	1		1	
Mississippi		31		1	20/24
Missouri		80/95		0	1

	Birds	Mosquito Pools	Sentinels	Horses	Humans
Montana				0	0
Nebraska	2	18/33		0	7/8
Nevada	2	8		1	5/7
New Hampshire		4		0	0
New Jersey	22/24	360/392		0	1
New Mexico					1
New York		346/396		2*	7
North Carolina				1	
North Dakota	0	0		4*	3
Ohio		515		0	6
Oklahoma		1			
Oregon	0	2	0	0	0
Pennsylvania	28/30	1035/1043		5/6*	1/2
Rhode Island		1		0	0
South Carolina	0	1		0	0
South Dakota		2		0	1
Tennessee	0	586		0	2
Texas	2/5	492/592		2	9/20
Utah		22/23	0	0	0
Vermont	7	2		0	1
Virginia		47	1	1	1/2
Washington	0	1/2		0	0
West Virginia	0	1		0	0
Wisconsin	2/5	0		1	0
Wyoming		10		0	1

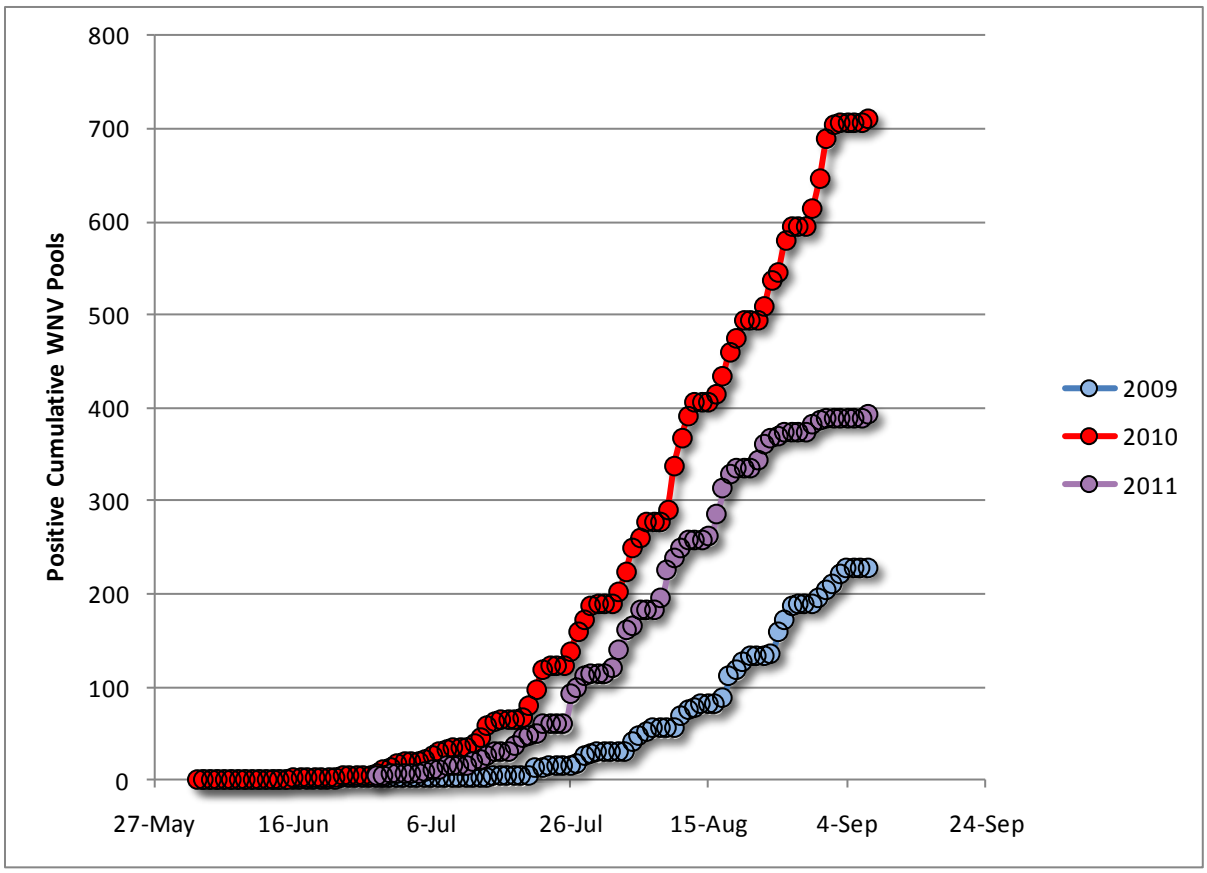
* Can include other species (e.g., dogs) reported positive.

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 7 Sept. 2011

Species	Pools	Mosquitoes	Positives	MFIR
Aedes albopictus	756	5502	6	1.091
Aedes atlanticus	7	71		
Aedes atropalpus	3	4		
Aedes aurifer	1	2		
Aedes canadensis canadensis	73	1171		
Aedes cantator	49	240		
Aedes cinereus	3	5		
Aedes grossbecki	3	8		
Aedes japonicus	405	2321	1	0.431
Aedes sollicitans	49	309		
Aedes sticticus	2	24		
Aedes stimulans	5	47		
Aedes taeniorhynchus	56	948		
Aedes thibaulti	1	1		
Aedes triseriatus	231	567		
Aedes trivittatus	21	223		
Aedes vexans	132	1086		
Anopheles barberi	6	6		
Anopheles bradleyi	70	980	1	1.020
Anopheles crucians	1	2		
Anopheles punctipennis	81	395		
Anopheles quadrimaculatus	105	617		
Anopheles walkeri	1	7		
Coquillettidia perturbans	117	1629		
Culex erraticus	169	7526		
Culex pipiens	759	13944	72	5.164
Culex restuans	492	3037	10	3.293
Culex salinarius	172	2152	1	0.465
Culex spp.	2374	92746	294	3.170
Culex territans	3	16		
Culiseta inornata	2	3		
Culiseta melanura	369	4033	7	1.736
Orthopodomyia signifera	4	4		
Psorophora ciliata	5	55		
Psorophora columbiae	12	121		
Psorophora ferox	29	282		
Psorophora howardii	4	35		
Uranotaenia sapphirina	4	107		
State Total	**6,576**	**140,226**	**392**	**2.795**

Remarks: To date, there have been 140,226 mosquitoes tested in 6,576 pools from 37 species. Currently, 392 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 7 September.



This year continues to be in between the very active 2010 season and the more modestly active 2009 season. The recent weather events (hurricane, tropical systems) continue to disrupt some service.

Humans, Horses and Wild Birds: There have been three human cases reported by the Department of Health and Senior Services. These include one case each in Mercer (probable), Middlesex (confirmed) and Morris (probable) counties.

No positive horse cases have been reported.

Bird testing began in mid-April. WNV has been detected in twenty-four birds from the 85 birds that have been tested. Species include American Crow *Corvus brachyrhynchos* (8/10), Blue Jays *Cyanocitta cristata* (3/9), Fish Crows *Corvus ossifragus* (5/20) unknown Corvus (5/7), Hawk (0/3) and Other (non-corvid) species (3/36). Positive birds were from Gloucester, Morris, Ocean, and Warren counties. Counties submitting birds are Atlantic, Burlington, Cape May, Cumberland, Gloucester, Monmouth, Morris, Ocean 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
392 / 6,576 (0.060)	752 / 4,552 (0.165)
2011 Positive Birds to date / Total Birds Submitted	**This time last year**
24 / 85 (0.282)	115 / 218 (0.528)

WNV Results by County through 7 September 2011

County	Species	Pools	Mosquitoes	Positives	MFIR
Atlantic		**149**	**4294**	**1**	**0.233**
	Aedes albopictus	13	358		
	Aedes canadensis canadensis	2	9		
	Aedes cantator	3	20		
	Aedes japonicus	4	18		
	Aedes sollicitans	4	37		
	Aedes taeniorhynchus	6	104		
	Aedes thibaulti	1	1		
	Aedes triseriatus	6	14		
	Aedes vexans	11	81		
	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.	69	3278	1	0.305
	Culiseta melanura	12	92		
	Orthopodomyia signifera	1	1		
	Psorophora columbiae	1	2		
	Psorophora ferox	1	11		
Bergen		**120**	**8288**	**73**	**8.808**
	Aedes albopictus	3	8		
	Aedes japonicus	4	12		
	Aedes vexans	2	16		
	Anopheles punctipennis	1	2		
	Culex spp.	110	8250	73	8.848
Burlington		**413**	**13556**	**24**	**1.770**
	Aedes albopictus	25	250		
	Aedes atlanticus	4	47		
	Aedes atropalpus	3	4		
	Aedes canadensis canadensis	14	611		

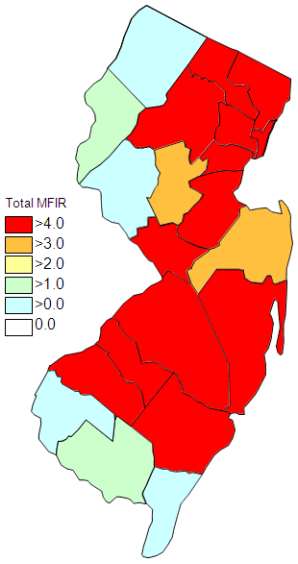
	Aedes cantator	2	63		
	Aedes grossbecki	1	3		
	Aedes japonicus	10	52		
	Aedes sollicitans	7	129		
	Aedes sticticus	1	3		
	Aedes taeniorhynchus	8	62		
	Aedes triseriatus	10	65		
	Aedes vexans	14	500		
	Anopheles bradleyi	4	260	1	3.846
	Anopheles crucians	1	2		
	Anopheles punctipennis	3	17		
	Anopheles quadrimaculatus	1	5		
	Coquillettidia perturbans	29	805		
	Culex erraticus	11	529		
	Culex pipiens	9	127	1	7.874
	Culex restuans	4	21		
	Culex salinarius	18	231		
	Culex spp.	168	8356	18	2.154
	Culex territans	1	14		
	Culiseta melanura	55	1222	4	3.273
	Psorophora ciliata	1	35		
	Psorophora columbiae	3	26		
	Psorophora ferox	1	7		
	Psorophora howardii	4	35		
	Uranotaenia sapphirina	1	75		
Camden		**184**	**3843**	**13**	**3.383**
	Aedes albopictus	42	241		
	Aedes japonicus	24	57		
	Aedes triseriatus	4	8		
	Aedes vexans	1	1		
	Anopheles punctipennis	3	3		
	Anopheles quadrimaculatus	1	2		
	Culex erraticus	2	7		
	Culex spp.	92	3112	13	4.177
	Culiseta melanura	15	412		
Cape May		**1968**	**17586**	**2**	**0.114**
	Aedes albopictus	242	554		
	Aedes canadensis canadensis	25	398		
	Aedes cantator	28	117		
	Aedes japonicus	88	162		
	Aedes sollicitans	23	75		
	Aedes taeniorhynchus	31	505		
	Aedes triseriatus	78	115		
	Aedes vexans	18	32		
	Anopheles bradleyi	53	541		
	Anopheles punctipennis	9	11		
	Anopheles quadrimaculatus	57	244		
	Coquillettidia perturbans	26	324		
	Culex erraticus	123	6142		
	Culex pipiens	431	4276		
	Culex restuans	422	2343	1	0.427
	Culex salinarius	131	830	1	1.205
	Culex spp.	107	431		
	Culiseta melanura	73	483		

	Orthopodomyia signifera	3	3		
Cumberland		**161**	**2728**		
	Aedes albopictus	16	65		
	Aedes atlanticus	2	16		
	Aedes canadensis canadensis	3	7		
	Aedes japonicus	5	15		
	Aedes sollicitans	2	4		
	Aedes taeniorhynchus	2	150		
	Aedes triseriatus	12	23		
	Aedes vexans	7	40		
	Anopheles bradleyi	2	150		
	Anopheles punctipennis	3	5		
	Anopheles quadrimaculatus	3	8		
	Coquillettidia perturbans	12	143		
	Culex erraticus	7	54		
	Culex pipiens	7	24		
	Culex restuans	2	5		
	Culex salinarius	15	1055		
	Culex spp.	28	664		
	Culex territans	2	2		
	Culiseta melanura	27	243		
	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		**419**	**9194**	**42**	**4.568**
	Aedes albopictus	32	507	3	5.917
	Aedes japonicus	14	117		
	Aedes triseriatus	3	8		
	Aedes vexans	2	4		
	Anopheles punctipennis	15	247		
	Anopheles quadrimaculatus	14	215		
	Coquillettidia perturbans	6	12		
	Culex pipiens	228	7180	39	5.432
	Culiseta melanura	104	903		
	Psorophora ferox	1	1		
Hudson		**150**	**8843**	**29**	**3.279**
	Culex spp.	150	8843	29	3.279
Hunterdon		**180**	**8685**	**22**	**2.533**

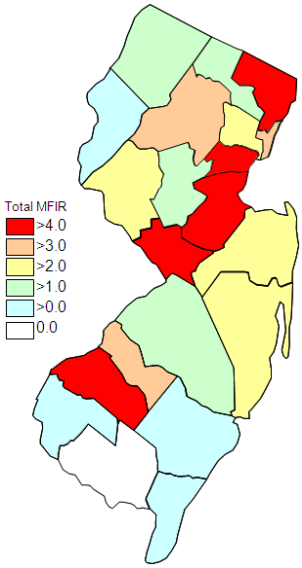
	Culex spp.	180	8685	22	2.533
Mercer		**231**	**3582**	**42**	**11.725**
	Aedes albopictus	69	525	1	1.905
	Aedes japonicus	34	113		
	Aedes triseriatus	9	23		
	Aedes vexans	1	2		
	Culex erraticus	2	6		
	Culex pipiens	77	2283	32	14.017
	Culex restuans	35	620	9	14.516
	Culex salinarius	2	5		
	Psorophora ciliata	1	4		
	Psorophora ferox	1	1		
Middlesex		**200**	**7261**	**44**	**6.060**
	Aedes albopictus	15	140		
	Aedes japonicus	21	234		
	Aedes triseriatus	1	5		
	Culex spp.	163	6882	44	6.393
Monmouth		**357**	**3283**	**7**	**2.132**
	Aedes albopictus	52	290		
	Aedes canadensis canadensis	15	103		
	Aedes cantator	7	28		
	Aedes japonicus	42	147		
	Aedes sollicitans	8	32		
	Aedes taeniorhynchus	7	123		
	Aedes triseriatus	25	73		
	Aedes trivittatus	8	22		
	Aedes vexans	9	21		
	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.	108	2124	7	3.296
	Culiseta melanura	33	157		
	Psorophora ciliata	1	1		
	Psorophora columbiae	2	16		
	Psorophora ferox	6	61		
Morris		**175**	**6622**	**20**	**3.020**
	Aedes albopictus	2	14		
	Aedes japonicus	8	148		
	Coquillettidia perturbans	2	65		
	Culex spp.	163	6395	20	3.127
Ocean		**334**	**3477**	**9**	**2.588**
	Aedes albopictus	75	1377		
	Aedes atlanticus	1	8		
	Aedes canadensis canadensis	6	6		
	Aedes cantator	8	10		

	Aedes japonicus	30	73		
	Aedes sollicitans	3	28		
	Aedes taeniorhunchus	2	4		
	Aedes triseriatus	16	28		
	Aedes trivittatus	2	2		
	Aedes vexans	17	83		
	Anopheles bradleyi	5	10		
	Anopheles punctipennis	12	31		
	Anopheles quadrimaculatus	4	5		
	Coquillettidia perturbans	18	102		
	Culex erraticus	1	1		
	Culex restuans	11	13		
	Culex salinarius	5	15		
	Culex spp.	78	1464	7	4.781
	Culiseta melanura	28	66	2	30.303
	Psorophora ciliata	1	7		
	Psorophora columbiae	1	1		
	Psorophora ferox	10	143		
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		**213**	**2866**	**1**	**0.349**
	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	15	423	1	2.364
	Psorophora columbiae	4	53		
Somerset		**160**	**1855**	**3**	**1.617**
	Aedes albopictus	19	84		
	Aedes japonicus	10	112		
	Aedes triseriatus	5	29		
	Aedes trivittatus	2	40		

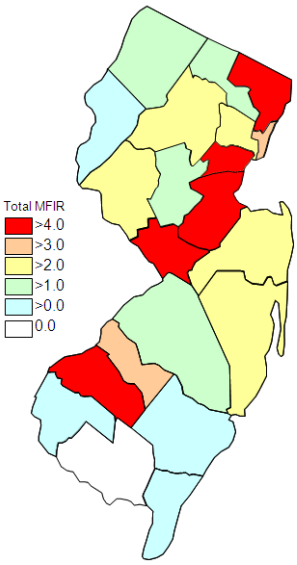
	Aedes vexans	2	29		
	Anopheles punctipennis	3	10		
	Coquillettidia perturbans	1	1		
	Culex spp.	117	1540	3	1.948
	Psorophora ferox	1	10		
Sussex		**197**	**6724**	**11**	**1.636**
	Aedes japonicus	13	206		
	Coquillettidia perturbans	1	57		
	Culex pipiens	1	43		
	Culex restuans	5	12		
	Culex spp.	171	6375	11	1.725
	Culiseta melanura	6	31		
Union		**122**	**3349**	**16**	**4.778**
	Aedes albopictus	39	515	1	1.942
	Aedes japonicus	3	14		
	Culex spp.	80	2820	15	5.319
Warren		**301**	**14622**	**14**	**0.957**
	Aedes cinereus	3	5		
	Aedes japonicus	4	19		
	Aedes stimulans	1	1		
	Aedes triseriatus	3	12		
	Aedes trivittatus	5	127		
	Aedes vexans	6	50		
	Anopheles barberi	1	1		
	Anopheles punctipennis	8	31		
	Anopheles quadrimaculatus	7	34		
	Anopheles walkeri	1	7		
	Coquillettidia perturbans	2	3		
	Culex spp.	253	14293	14	0.980
	Culiseta inornata	1	1		
	Culiseta melanura	1	1		
	Psorophora ferox	2	5		
	Uranotaenia sapphirina	3	32		
Grand Total		**6,576**	**140,226**	**392**	**2.75**



Cumulative WNV activity in 2010.



WNV activity to 7 September 2011.



WNV activity last week, 2011.

Saint Louis Encephalitis (SLE) through 7 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		**397**	**13499**		
	Aedes albopictus	23	248		
	Aedes atlanticus	4	47		
	Aedes atropalpus	3	4		
	Aedes canadensis canadensis	14	611		
	Aedes cantator	2	63		
	Aedes grossbecki	1	3		
	Aedes japonicus	10	52		
	Aedes sollicitans	7	129		
	Aedes sticticus	1	3		
	Aedes taeniorhynchus	8	62		
	Aedes triseriatus	10	65		
	Aedes vexans	14	500		
	Anopheles bradleyi	4	260		
	Anopheles crucians	1	2		
	Anopheles punctipennis	3	17		
	Anopheles quadrimaculatus	1	5		
	Coquillettidia perturbans	29	805		
	Culex erraticus	11	529		
	Culex pipiens	9	127		
	Culex restuans	3	20		
	Culex salinarius	17	230		
	Culex spp.	167	8355		
	Culex erraticus	1	14		
	Culiseta melanura	44	1170		

	Psorophora ciliata	1	35		
	Psorophora columbiae	3	26		
	Psorophora ferox	1	7		
	Psorophora howardii	4	35		
	Uranotaenia sapphirina	1	75		
Camden		**169**	**3431**		
	Aedes albopictus	42	241		
	Aedes japonicus	24	57		
	Aedes triseriatus	4	8		
	Aedes vexans	1	1		
	Anopheles punctipennis	3	3		
	Anopheles quadrimaculatus	1	2		
	Culex erraticus	2	7		
	Culex spp.	92	3112		
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		**135**	**8069**		
	Culex spp.	135	8069		
Grand Total		**1135**	**32,399**		

La Crosse Encephalitis (LAC) through 7 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		**71**	**106**		
	Aedes japonicus	1	1		
	Aedes triseriatus	70	105		
Cumberland		**14**	**27**		
	Aedes triseriatus	14	27		
Salem		**7**	**16**		
	Aedes triseriatus	7	16		
Grand Total		**93**	**158**		