

VECTOR SURVEILLANCE IN NEW JERSEY
EEE, WNV, SLE and LAC
CDC WEEK 35: August 29 to September 4, 2010
Data Downloaded 12:27 pm 7 Sep 2010

Prepared by Lisa M. Reed, Scott Crans and
Mark Robson at the Center for Vector Biology,
Rutgers University.
Supported by funding from the NJ State
Mosquito Control Commission.

Culiseta melanura and Eastern Equine Encephalitis

SITE	Inland / Coastal	Historic Mean	Current Weekly Mean	Total Tested to Date*	Total Pools Submitted	EEE Isolations	MFIR
Green Bank (Burlington County)	Coastal	4.94	0.08	161	14	0	0
Corbin City (Atlantic County)	Coastal	2.30	1.16	326	15	0	0
Dennisville (Cape May County)	Coastal	6.64	0.22	684	23	2	2.92
Winslow (Camden County)	Inland	1.06	0.72	1899	43	3	1.58
Centerton (Salem County)	Inland	4.16	0.20	1468	35	2	1.36
Turkey Swamp (Monmouth County)	Inland	1.73	1.52	734 [†]	53	0	0
Glassboro (Gloucester County)	Inland	1.42	0.26	417	14	0	0

*Including trial run last week in May. † adjusted for this week's pool

Remarks: There are **16 positive EEE pools** to report at this time. Fourteen positive pools are from *Cs. melanura*, from both traditional resting box monitoring sites and county-run traps. No changes in positive pools at the traditional resting box sites (above). To date, 5564 *Culiseta melanura*

Additional <i>Cs. melanura</i> trapped by counties				
*traps with positives indicated in BOLD .				
County	Trap types*	Number collected	Number of positives	MFIR
Atlantic	CO ₂	17		
Burlington	CO₂	2221	3	1.35
Camden	Gravid	2		
Cape May	CO ₂ , Gravid, RB	1704	1	0.59
Cumberland	RB	424	1	2.36
Gloucester	RB	1165	2	1.72
Ocean	CO ₂ , Gravid, RB	206		
Salem	CO ₂	1		
Sussex	CO ₂ , NJLT	32		
TOTAL		5512	7	1.27

mosquitoes forming 194 pools from the resting box sites have been tested. An additional 5772 *Cs. melanura* forming 287 (corrected) pools have been sampled by the counties using a variety of traps (table to the left), producing one additional positive pools in Burlington County, collected on 30th Aug. The remaining two pools were from *Culex erraticus*, collected previously.

The table below indicates non-melanura species tested for EEE:

Species other than <i>Cs. melanura</i>	Pools	Mosquitoes	Positives	MFIR
<i>Aedes albopictus</i>	19	250		
<i>Aedes canadensis canadensis</i>	5	107		
<i>Aedes japonicus</i>	4	21		
<i>Aedes sollicitans</i>	9	204		
<i>Aedes taeniorhynchus</i>	3	10		
<i>Aedes triseriatus</i>	18	57		
<i>Aedes trivittatus</i>	1	2		
<i>Aedes vexans</i>	10	206		
<i>Anopheles bradleyi</i>	22	333		
<i>Anopheles crucians</i>	2	122		
<i>Anopheles punctipennis</i>	2	14		
<i>Anopheles quadrimaculatus</i>	11	142		
<i>Coquillettidia perturbans</i>	47	888		
<i>Culex erraticus</i>	74	2753	2	0.73
<i>Culex pipiens</i>	241	2049		
<i>Culex restuans</i>	7	17		
<i>Culex salinarius</i>	40	553		
<i>Culex</i> spp.	169	4247		
<i>Culex territans</i>	2	2		
<i>Culiseta minnesotae</i>	1	1		
<i>Psorophora columbiae</i>	1	5		
<i>Uranotaenia sapphirina</i>	1	6		
State Total	689	11989	2	0.17

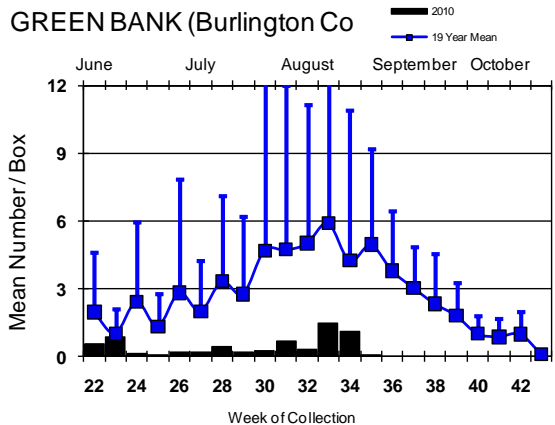
Horses and Humans: There are no positive horse or human cases to date.

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

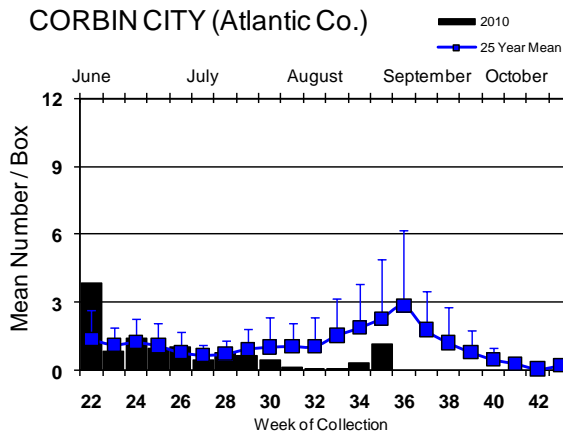
Culiseta melanura Population Graphs

Coastal

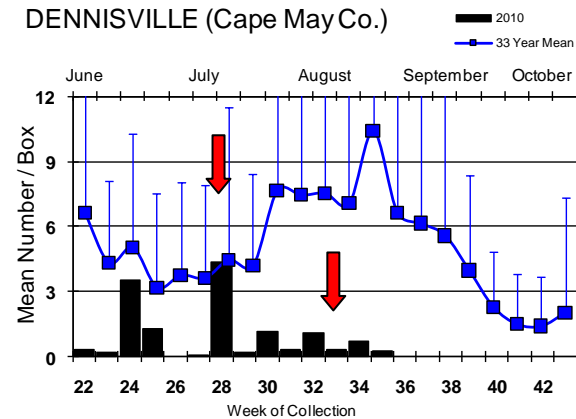
GREEN BANK (Burlington Co)



CORBIN CITY (Atlantic Co.)

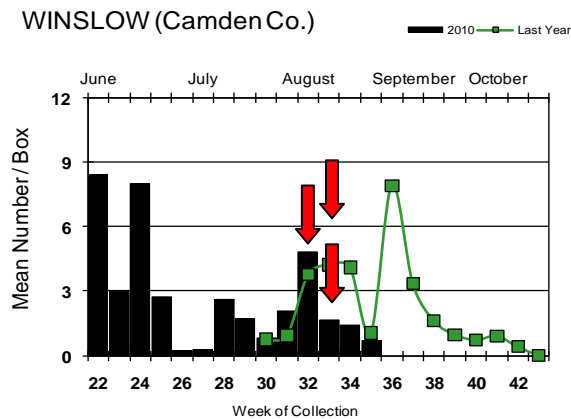


DENNISVILLE (Cape May Co.)

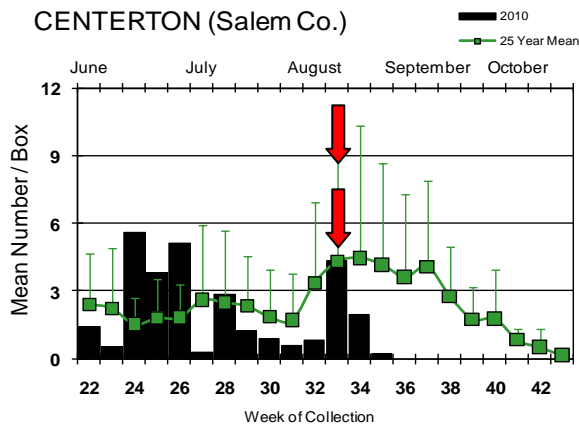


Inland

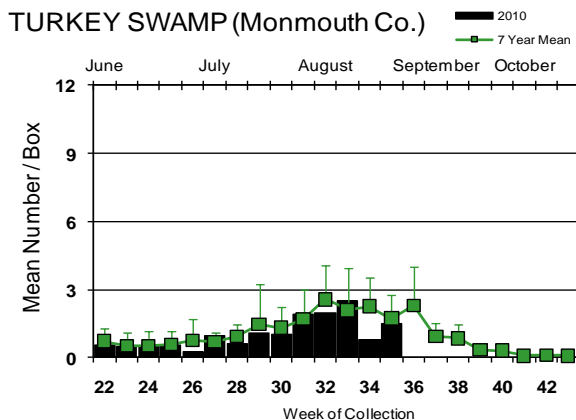
WINSLOW (Camden Co.)



CENTERTON (Salem Co.)



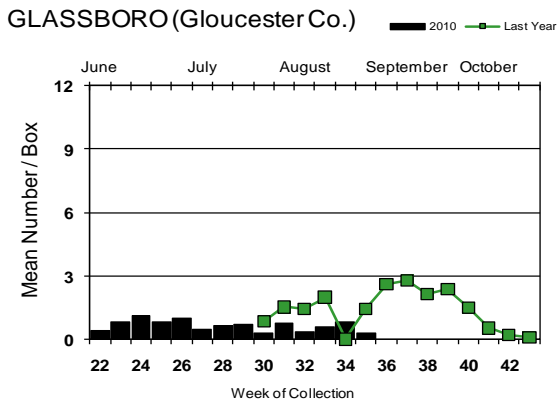
TURKEY SWAMP (Monmouth Co.)



As with the previous week, this week did not produce any positive EEE pools in the enzootic vector at the traditional resting box sites. *Cs. melanura* populations increased only at Corbin City and Turkey Swamp. Populations decreased at Green Bank, Dennisville, Winslow, Centerton and Glassboro.

↓ = Positive pool(s) detected.

GLASSBORO (Gloucester Co.)



EEE in US (2010 cumulative cases): (Black or Red = previous + new reported cases occurring)

- equine: 6(AL) 83(FL) 7(GA) 4(MA) 22 (MS) 26(MI) 2(NC) 1(NH) 1(NY) 1(TX) 1(VA)
- mosquito: 2(CN) 2(GA) 6(FL) 2(IN) 1(NH) 16(NJ) 42(NY) 60(MA) 7(VA)
- sentinel: 2(AL) 138/30(FL chickens/wild) 1 turkey(ME) 19(TX) 2(VA)
- human: 1(TX-out of country acquired case) 4(FL) 1(MA>RI) 1(MA) 3(MI)

West Nile Virus

West Nile in US (2010 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					2
Alaska					
Arizona		233	9	1	62/69
Arkansas					3
California	260/285	784/1032	78/133	8/12	27/35
Colorado		34/43		2	16/18
Connecticut		113/149			2
Delaware			2/3		
DC					
Florida	1Flavi		81/94	6	1/2
Georgia	0	12		0	4
Hawaii					
Idaho				1	
Illinois	36/39	932/1336			3
Indiana	0	174/209		0	2
Iowa		0	2	1	1
Kansas					2
Kentucky				1	
Louisiana		317	4	3	12/19
Maine					
Maryland		1			3
Mass.		60/82		0	1
Michigan	1/3	1			3/4
Minnesota					1/2
Mississippi		2		2	4
Missouri		49/51			1

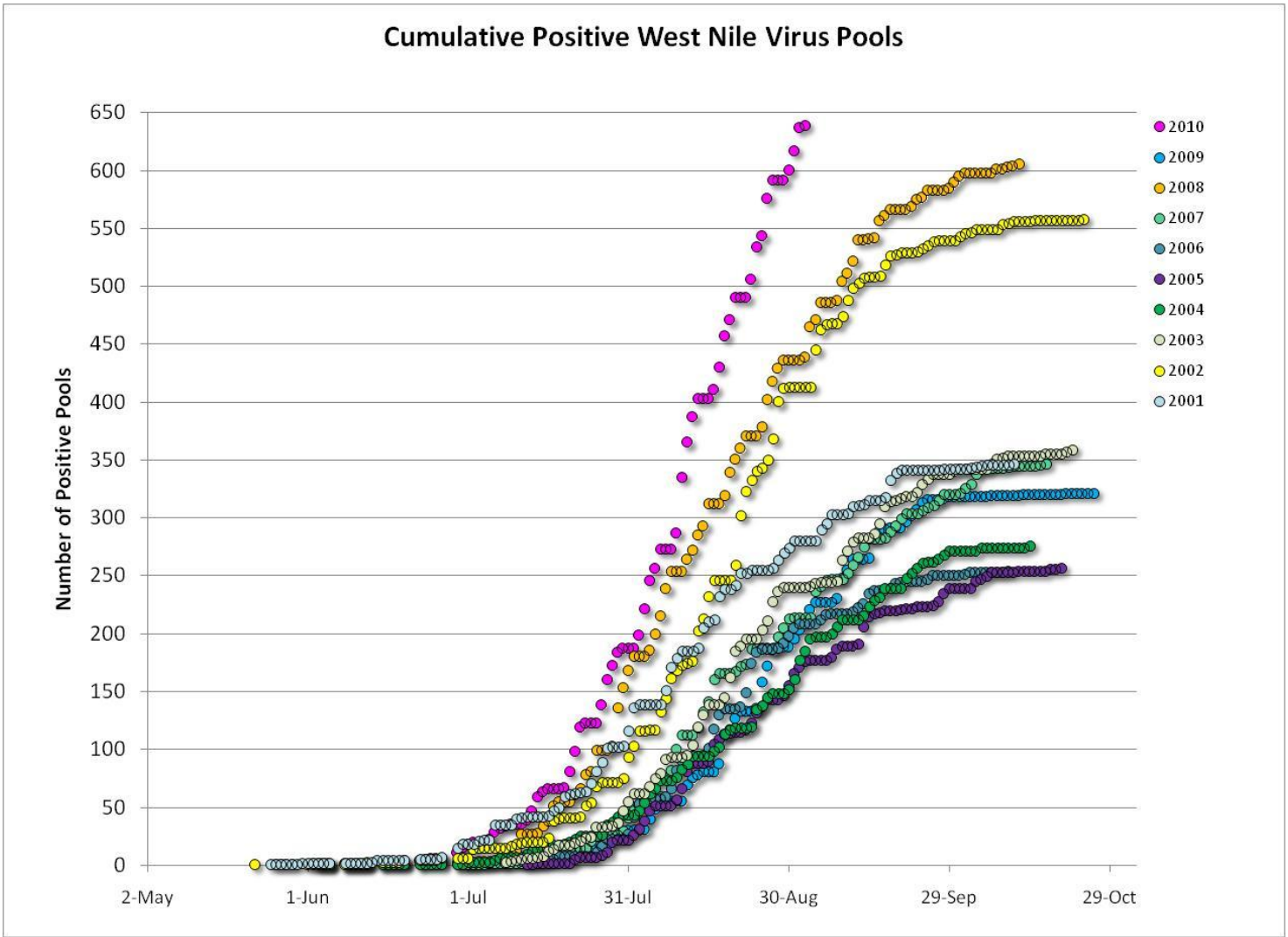
	Birds	Mosquito Pools	Sentinels	Horses	Humans
Montana					
Nebraska	1	59		0	12
Nevada		6/12		2	
New Hampshire		1		0	0
New Jersey	84/103	549/643	0	1	1/5
New Mexico					2
New York	0	526/683		0	19/37
North Carolina			1		
North Dakota				2/3	4/5
Ohio		98/110		0	1
Oklahoma		3			
Oregon	0	1/3	0	0	0
Pennsylvania	6	622/716		2	1
Rhode Island					
South Carolina		1			
South Dakota					9
Tennessee	0	100/145		0	0
Texas	1	104/105		1	3/5
Utah		10			
Vermont	1	3/6		0	0
Virginia		89	8/13		
Washington	0	102/104		0	0
West Virginia	0	26		0	0
Wisconsin	0	3		0	0
Wyoming		13			1

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 Sep 2010

Species	Pools	Mosquitoes	Positives	MFIR
<i>Aedes albopictus</i>	422	2807	8	2.850
<i>Aedes canadensis canadensis</i>	26	475		
<i>Aedes cantator</i>	7	21		
<i>Aedes japonicus</i>	298	1463		
<i>Aedes sollicitans</i>	12	216		
<i>Aedes sticticus</i>	1	1		
<i>Aedes stimulans</i>	3	8		
<i>Aedes taeniorhynchus</i>	5	41		
<i>Aedes triseriatus</i>	132	313		
<i>Aedes trivittatus</i>	8	40		
<i>Aedes vexans</i>	69	615		
<i>Anopheles barberi</i>	2	2		
<i>Anopheles bradleyi</i>	29	348		
<i>Anopheles crucians</i>	2	122		
<i>Anopheles punctipennis</i>	36	336		
<i>Anopheles quadrimaculatus</i>	59	568		
<i>Anopheles walkeri</i>	3	4		
<i>Coquillettidia perturbans</i>	97	1620		
<i>Culex erraticus</i>	85	2780		
<i>Culex pipiens</i>	691	16541	148	8.947
<i>Culex restuans</i>	190	1140	4	3.509
<i>Culex salinarius</i>	62	915	1	1.093
<i>Culex spp.</i>	2192	80834	473	5.851
<i>Culex territans</i>	2	2		
<i>Culiseta inornata</i>	1	1		
<i>Culiseta melanura</i>	477	9893	9	0.910
<i>Culiseta minnesotae</i>	1	1		
<i>Orthopodomyia signifera</i>	2	2		
<i>Psorophora ciliata</i>	1	1		
<i>Psorophora columbiae</i>	1	5		
<i>Psorophora cyanescens</i>	1	1		
<i>Psorophora ferox</i>	2	3		
<i>Uranotaenia sapphirina</i>	1	6		
State Total	4920	121125	643	5.309

Remarks: The number of positive WNV mosquito pools to date is 643. Positive pools continue to be primarily from the ornithophilic *Culex* species. Counties throughout New Jersey are showing considerable WNV activity, with the exception of Salem counties (extreme southwestern portion of the state), with most activity seen in the urban/suburban corridor between New York and Philadelphia. Positive *Ae. albopictus* pools is 8. The cumulative positive pools for this year continue to pace ahead of previous years (graph below), and the current year is ahead of previous years with total number of pools detected.



Humans, Horses and Wild Birds: Currently, five human cases of West Nile virus (all neuroinvasive) have been detected: 1 Atlantic County (onset 6 Aug), 1 Essex County (onset 6 Aug), 2 Ocean County (onsets 10 Aug, 22 Aug), and 1 Passaic County (onset 10 Aug). Age ranged from 44 to 86. For more details plus information about WNV, see the West Nile Virus Alert and FAQ Sheets from the NJ Department of Health and Senior Services, Communicable Disease Service, Infectious and Zoonotic Disease Program:
<http://www.state.nj.us/health/cd/westnile/enceph.htm>

One horse was found positive for WNV in Atlantic County with onset date of 17 August. This 2 year old mare was unvaccinated and euthanized the same day. Travel history is unknown.

One hundred and three dead, wild birds out of 196 tested are been positive for WNV, continue to be well ahead of last year's results in terms of number and timing. This year's positive birds include 91/132 corvids (19 positives/25 tested American Crows, 31/43 Fish Crows, 34/48 Blue Jays and 7/16 unidentified Crows), 1/5 Hawks (unknown species) and 11/61 unknown species. Fish Crows, *Corvus ossifragus*, have appeared in number this year as compared to last year.

2010 Positive Mosquito pools to date / Total Mosquito Pools Submitted	This time last year
643/ 4920 (13.1%)	218/ 6017 (3.6%)
2010 Positive Birds to date / Total Birds Submitted	This time last year
103/ 196 (53%)	19/ 83 (23%)

WNV Results by County through 7 Sep 2010

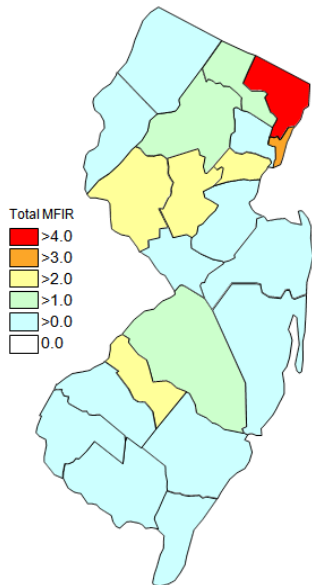
County	Species	Pools	Mosquitoes	Positives	MFIR
Atlantic		200	4819	43	8.923
	<i>Aedes albopictus</i>	25	197	1	5.076
	<i>Aedes canadensis canadensis</i>	3	56		
	<i>Aedes cantator</i>	3	14		
	<i>Aedes japonicus</i>	10	21		
	<i>Aedes sollicitans</i>	2	10		
	<i>Aedes taeniorhynchus</i>	1	24		
	<i>Aedes triseriatus</i>	4	8		
	<i>Aedes trivittatus</i>	3	26		
	<i>Aedes vexans</i>	14	137		
	<i>Anopheles bradleyi</i>	4	11		
	<i>Anopheles punctipennis</i>	5	108		
	<i>Anopheles quadrimaculatus</i>	3	4		
	<i>Coquillettidia perturbans</i>	9	35		
	<i>Culex erraticus</i>	2	5		
	<i>Culex</i> spp.	85	3749	41	10.936
	<i>Culex territans</i>	1	1		
	<i>Culiseta melanura</i>	25	412	1	2.427
	<i>Orthopodomyia signifera</i>	1	1		
Bergen		170	11904	93	7.813
	<i>Aedes albopictus</i>	5	30		
	<i>Aedes japonicus</i>	3	14		
	<i>Culex</i> spp.	162	11860	93	7.841
Burlington		220	8019	36	4.489
	<i>Aedes albopictus</i>	18	243		
	<i>Aedes canadensis canadensis</i>	3	105		
	<i>Aedes japonicus</i>	2	15		
	<i>Aedes sollicitans</i>	5	181		
	<i>Aedes taeniorhynchus</i>	2	9		
	<i>Aedes triseriatus</i>	1	7		
	<i>Aedes vexans</i>	9	204		
	<i>Anopheles bradleyi</i>	4	125		
	<i>Anopheles crucians</i>	2	122		
	<i>Anopheles punctipennis</i>	1	13		
	<i>Anopheles quadrimaculatus</i>	2	7		
	<i>Coquillettidia perturbans</i>	9	352		
	<i>Culex erraticus</i>	12	495		
	<i>Culex pipiens</i>	4	98	1	10.204
	<i>Culex salinarius</i>	6	38		
	<i>Culex</i> spp.	78	3612	33	9.136
	<i>Culiseta melanura</i>	60	2382	2	0.840
	<i>Psorophora columbiae</i>	1	5		
	<i>Uranotaenia sapphirina</i>	1	6		
Camden		185	4630	65	14.039
	<i>Aedes albopictus</i>	34	131	3	22.901
	<i>Aedes canadensis canadensis</i>	1	1		
	<i>Aedes japonicus</i>	15	22		
	<i>Aedes triseriatus</i>	2	2		
	<i>Aedes trivittatus</i>	1	1		
	<i>Anopheles punctipennis</i>	5	7		
	<i>Anopheles quadrimaculatus</i>	1	1		

	<i>Culex erraticus</i>	1	3		
	<i>Culex pipiens</i>	1	28		
	<i>Culex</i> spp.	102	3646	60	16.456
	<i>Culiseta melanura</i>	21	787	2	2.541
	<i>Othopodomyia signifera</i>	1	1		
Cape May		1107	13224	6	0.454
	<i>Aedes albopictus</i>	50	102		
	<i>Aedes canadensis canadensis</i>	2	2		
	<i>Aedes japonicus</i>	42	73		
	<i>Aedes sollicitans</i>	4	23		
	<i>Aedes taeniorhynchus</i>	2	8		
	<i>Aedes triseriatus</i>	21	46		
	<i>Anopheles bradleyi</i>	15	204		
	<i>Anopheles quadrimaculatus</i>	24	364		
	<i>Coquillettidia perturbans</i>	13	154		
	<i>Culex erraticus</i>	60	2253		
	<i>Culex pipiens</i>	381	4593	4	0.871
	<i>Culex restuans</i>	140	657		
	<i>Culex salinarius</i>	37	604	1	1.656
	<i>Culex</i> spp.	145	1200		
	<i>Culiseta melanura</i>	171	2941	1	0.340
Cumberland		38	499	1	2.004
	<i>Aedes albopictus</i>	3	15		
	<i>Aedes triseriatus</i>	3	3		
	<i>Anopheles bradleyi</i>	3	4		
	<i>Anopheles punctipennis</i>	2	2		
	<i>Anopheles quadrimaculatus</i>	5	13		
	<i>Culex erraticus</i>	3	14		
	<i>Culex pipiens</i>	2	21		
	<i>Culex restuans</i>	2	2		
	<i>Culex territans</i>	1	1		
	<i>Culiseta melanura</i>	14	424	1	2.358
Essex		199	1960	20	10.204
	<i>Aedes albopictus</i>	40	169		
	<i>Aedes japonicus</i>	28	268		
	<i>Aedes stimulans</i>	1	3		
	<i>Aedes triseriatus</i>	17	35		
	<i>Aedes vexans</i>	12	46		
	<i>Culex</i> spp.	101	1439	20	13.899
Gloucester		296	9592	95	9.904
	<i>Aedes albopictus</i>	15	199		
	<i>Aedes japonicus</i>	3	20		
	<i>Aedes vexans</i>	1	56		
	<i>Anopheles barberi</i>	1	1		
	<i>Anopheles quadrimaculatus</i>	2	23		
	<i>Coquillettidia perturbans</i>	2	3		
	<i>Culex pipiens</i>	206	7888	93	11.790
	<i>Culiseta melanura</i>	66	1402	2	1.427
Hudson		161	8225	72	8.754
	<i>Culex</i> spp.	161	8225	72	8.754

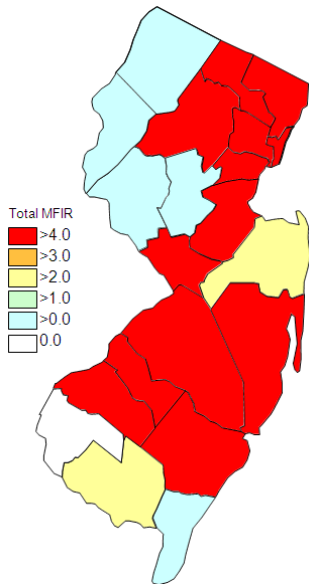
Hunterdon		180	8916	7	0.785
	<i>Culex</i> spp.	180	8916	7	0.785
Mercer		186	4685	54	11.526
	<i>Aedes albopictus</i>	32	74	1	13.514
	<i>Aedes japonicus</i>	21	34		
	<i>Aedes triseriatus</i>	4	5		
	<i>Aedes vexans</i>	3	75		
	<i>Culex pipiens</i>	80	3844	50	13.007
	<i>Culex restuans</i>	32	368	3	8.152
	<i>Culex salinarius</i>	12	264		
	<i>Culex</i> spp.	2	21		
Middlesex		216	9475	48	5.066
	<i>Aedes albopictus</i>	5	27		
	<i>Aedes japonicus</i>	3	21		
	<i>Aedes triseriatus</i>	1	6		
	<i>Culex</i> spp.	207	9421	48	5.095
Monmouth		254	2090	5	2.392
	<i>Aedes albopictus</i>	41	281		
	<i>Aedes canadensis canadensis</i>	10	89		
	<i>Aedes cantator</i>	3	6		
	<i>Aedes japonicus</i>	33	94		
	<i>Aedes triseriatus</i>	12	14		
	<i>Aedes vexans</i>	2	5		
	<i>Anopheles barberi</i>	1	1		
	<i>Anopheles punctipennis</i>	1	1		
	<i>Anopheles quadrimaculatus</i>	4	4		
	<i>Coquillettidia perturbans</i>	5	8		
	<i>Culex erraticus</i>	3	5		
	<i>Culex pipiens</i>	1	1		
	<i>Culex restuans</i>	1	1		
	<i>Culex salinarius</i>	2	2		
	<i>Culex</i> spp.	78	912	5	5.482
	<i>Culiseta melanura</i>	56	665		
	<i>Psorophora cyanescens</i>	1	1		
Morris		175	6290	27	4.293
	<i>Aedes japonicus</i>	13	143		
	<i>Aedes vexans</i>	1	5		
	<i>Anopheles punctipennis</i>	2	6		
	<i>Anopheles quadrimaculatus</i>	3	82		
	<i>Coquillettidia perturbans</i>	6	207		
	<i>Culex</i> spp.	150	5847	27	4.618
Ocean		248	3609	15	4.156
	<i>Aedes albopictus</i>	60	769	1	1.300
	<i>Aedes canadensis canadensis</i>	7	222		
	<i>Aedes japonicus</i>	28	89		
	<i>Aedes sollicitans</i>	1	2		
	<i>Aedes sticticus</i>	1	1		
	<i>Aedes triseriatus</i>	11	26		

<i>Aedes trivittatus</i>	2	2		
<i>Aedes vexans</i>	6	19		
<i>Anopheles punctipennis</i>	2	4		
<i>Coquillettidia perturbans</i>	12	102		
<i>Culex erraticus</i>	2	2		
<i>Culex restuans</i>	3	3	1	333.333
<i>Culex salinarius</i>	3	3		
<i>Culex</i> spp.	78	2155	13	6.032
<i>Culiseta inornata</i>	1	1		
<i>Culiseta melanura</i>	29	206		
<i>Psorophora ferox</i>	2	3		
Passaic	120	1709	10	5.851
<i>Aedes albopictus</i>	24	113		
<i>Aedes japonicus</i>	20	159		
<i>Aedes triseriatus</i>	10	21		
<i>Anopheles punctipennis</i>	3	7		
<i>Anopheles quadrimaculatus</i>	1	2		
<i>Coquillettidia perturbans</i>	4	44		
<i>Culex</i> spp.	58	1363	10	7.337
Salem	200	1693		
<i>Aedes albopictus</i>	38	172		
<i>Aedes cantator</i>	1	1		
<i>Aedes japonicus</i>	16	20		
<i>Aedes triseriatus</i>	11	13		
<i>Aedes vexans</i>	20	44		
<i>Anopheles bradleyi</i>	3	4		
<i>Anopheles punctipennis</i>	3	3		
<i>Anopheles quadrimaculatus</i>	11	20		
<i>Anopheles walkeri</i>	3	4		
<i>Coquillettidia perturbans</i>	10	21		
<i>Culex erraticus</i>	2	3		
<i>Culex pipiens</i>	5	11		
<i>Culex restuans</i>	4	6		
<i>Culex</i> spp.	56	729		
<i>Culiseta melanura</i>	17	642		
Somerset	183	2114	1	0.473
<i>Aedes albopictus</i>	14	39		
<i>Aedes japonicus</i>	20	130		
<i>Aedes triseriatus</i>	14	61		
<i>Anopheles punctipennis</i>	9	33		
<i>Anopheles quadrimaculatus</i>	2	4		
<i>Culex</i> spp.	124	1847	1	0.541
Sussex	290	7021	3	0.427
<i>Aedes japonicus</i>	30	250		
<i>Aedes stimulans</i>	2	5		
<i>Aedes triseriatus</i>	16	48		
<i>Coquillettidia perturbans</i>	17	321		
<i>Culex pipiens</i>	11	57		
<i>Culex restuans</i>	8	103		
<i>Culex salinarius</i>	2	4		

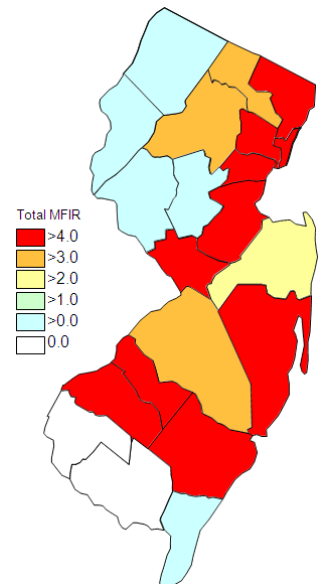
<i>Culex</i> spp.	185	6200	3	0.484
<i>Culiseta melanura</i>	18	32		
<i>Culiseta minnesotae</i>	1	1		
Union	145	5275	38	7.204
<i>Aedes albopictus</i>	16	185	2	10.811
<i>Aedes japonicus</i>	10	88		
<i>Coquillettidia perturbans</i>	1	9		
<i>Culex</i> spp.	118	4993	36	7.210
Warren	147	5376	2	0.744
<i>Aedes japonicus</i>	1	2		
<i>Aedes triseriatus</i>	5	18		
<i>Aedes trivittatus</i>	2	11		
<i>Aedes vexans</i>	1	24		
<i>Anopheles punctipennis</i>	3	152		
<i>Anopheles quadrimaculatus</i>	1	44		
<i>Coquillettidia perturbans</i>	9	364		
<i>Culex</i> spp.	124	4760	4	0.840
<i>Psorophora ciliata</i>	1	1		
Grand Total	4920	121125	643	5.309



Cumulative WNV activity in 2009.



WNV activity to 7 Sep, 2010.



WNV activity last week, 2010.

Saint Louis Encephalitis (SLE) through 7 Sep 2010.

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 tested positive to date for 2010.

County	Species	Pools	Mosquitoes	Positives	MFIR
Burlington		206	7858		
	<i>Aedes albopictus</i>	18	243		
	<i>Aedes canadensis canadensis</i>	3	105		
	<i>Aedes japonicus</i>	2	15		
	<i>Aedes sollicitans</i>	5	181		
	<i>Aedes taeniorhynchus</i>	2	9		
	<i>Aedes triseriatus</i>	1	7		
	<i>Aedes vexans</i>	9	204		
	<i>Anopheles bradleyi</i>	4	125		
	<i>Anopheles crucians</i>	2	122		
	<i>Anopheles punctipennis</i>	1	13		
	<i>Anopheles quadrimaculatus</i>	2	7		
	<i>Coquillettidia perturbans</i>	9	352		
	<i>Culex erraticus</i>	12	495		
	<i>Culex pipiens</i>	4	98		
	<i>Culex salinarius</i>	6	38		
	<i>Culex</i> spp.	78	3612		
	<i>Culiseta melanura</i>	46	2221		
	<i>Psorophora columbiae</i>	1	5		
	<i>Uranotaenia sapphirina</i>	1	6		
Camden		151	3690		
	<i>Aedes albopictus</i>	30	104		
	<i>Aedes canadensis canadensis</i>	1	1		
	<i>Aedes japonicus</i>	13	20		
	<i>Aedes triseriatus</i>	2	2		
	<i>Aedes trivittatus</i>	1	1		
	<i>Anopheles punctipennis</i>	5	7		
	<i>Culex erraticus</i>	1	3		
	<i>Culex</i> spp.	96	3550		
	<i>Culiseta melanura</i>	1	1		
	<i>Orthopodomyia signifera</i>	1	1		
Essex		160	1873		
	<i>Aedes albopictus</i>	29	145		
	<i>Aedes japonicus</i>	24	258		
	<i>Aedes triseriatus</i>	2	6		
	<i>Aedes vexans</i>	4	25		
	<i>Culex</i> spp.	101	1439		
Hudson		119	6525		
	<i>Culex</i> spp.	119	6525		

Salem		1	7		
	<i>Culex</i> spp.	1	7		
Sussex		16	48		
	<i>Aedes triseriatus</i>	16	48		
Grand Total		653	20001		

La Crosse Encephalitis (LAC) through 7 Sep 2010.

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 2010.

County	Species	Pools	Mosquitoes	Positives	MFIR
Cape May		13	26		
	<i>Aedes triseriatus</i>	13	26		
Cumberland		3	3		
	<i>Aedes triseriatus</i>	3	3		
Salem		4	4		
	<i>Aedes triseriatus</i>	4	4		
Warren		10	106		
	<i>Aedes canadensis canadensis</i>	4	86		
	<i>Aedes triseriatus</i>	6	20		
Grand Total		30	139		