

VECTOR SURVEILLANCE IN NEW JERSEY
EEE, WNV, SLE and LAC
CDC WEEK 39: September 26 to October 2, 2010
Data Downloaded 9:55 am 5 Oct 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	1.81	1.24 [†]	191	18	0	0
Corbin City (Atlantic County)	Coastal	0.83	0.12	367	19	0	0
Dennisville (Cape May County)	Coastal	2.29	0.20	722	27	2	2.77
Winslow (Camden County)	Inland	0.98	0.64	2140	49	3	1.40
Centerton (Salem County)	Inland	1.76	0.58	1588	39	3	1.89
Turkey Swamp (Monmouth County)	Inland	0.34	0.11 [†]	761	64	0	0
Glassboro (Gloucester County)	Inland	2.12	0.42	511	18	0	0

*Including trial run last week in May. † not included in total, to be reported next week

Remarks: There are **21 positive EEE pools** to report at this time, one additional from last week. Nineteen positive pools are from *Cs. melanura*, from both traditional resting box monitoring sites (8 positives) and county-run traps (11 positives). The additional pool this week came from

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	2408	4	1.66
Camden	Gravid	3		
Cape May	CO ₂ , Gravid, RB	1779	2	1.12
Cumberland	Gravid, RB	508	2	3.94
Gloucester	RB	1497	3	2.00
Ocean	CO ₂ , Gravid, RB	232		
Salem	CO ₂	1		
Sussex	CO ₂ , NJLT	32		
TOTAL		6477	11	1.70

the Centerton monitoring site, collected on 28 Sept. To date, 6281 *Culiseta melanura* mosquitoes forming 234 pools from the resting box sites have been tested. An additional 6477 *Cs. melanura* forming 378 pools have been sampled by the counties using a variety of traps (table to the left), producing a total of 11 additional positive pools. 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>	36	310		
<i>Aedes canadensis canadensis</i>	7	115		
<i>Aedes cantator</i>	3	3		
<i>Aedes japonicus</i>	5	22		
<i>Aedes sollicitans</i>	15	265		
<i>Aedes taeniorhynchus</i>	3	10		
<i>Aedes triseriatus</i>	18	57		
<i>Aedes trivittatus</i>	1	2		
<i>Aedes vexans</i>	22	353		
<i>Anopheles bradleyi</i>	36	457		
<i>Anopheles crucians</i>	2	122		
<i>Anopheles punctipennis</i>	7	72		
<i>Anopheles quadrimaculatus</i>	15	169		
<i>Coquillettidia perturbans</i>	54	897		
<i>Culex erraticus</i>	145	4290	2	0.47
<i>Culex pipiens</i>	372	2603		
<i>Culex restuans</i>	13	30		
<i>Culex salinarius</i>	56	689		
<i>Culex</i> spp.	235	4917		
<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	1050	15397	2	0.13

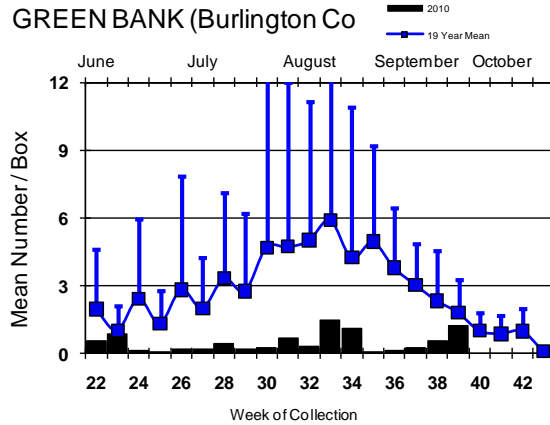
Horses and Humans: There are no positive horse or human cases to date.

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

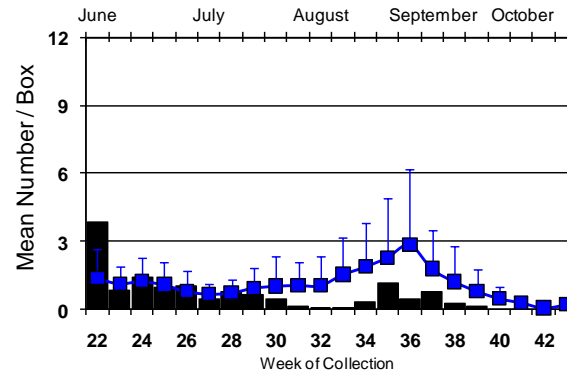
Culiseta melanura Population Graphs

Coastal

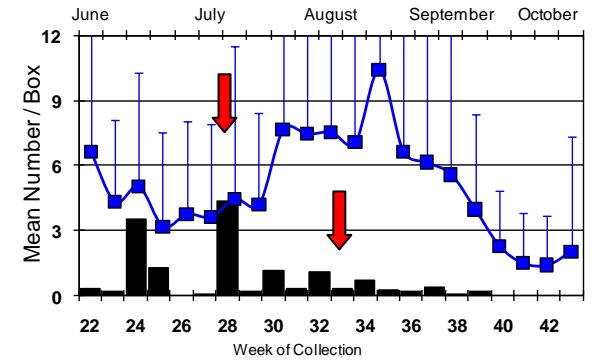
GREEN BANK (Burlington Co)



CORBIN CITY (Atlantic Co.)

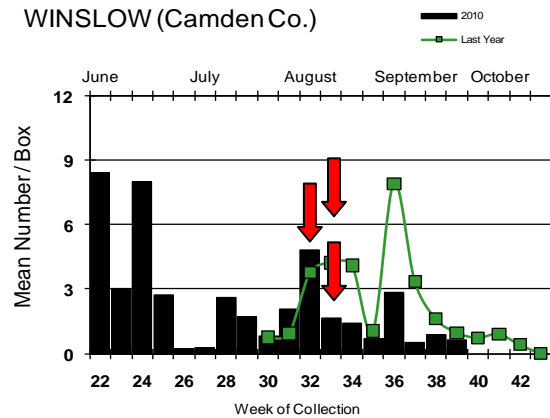


DENNISVILLE (Cape May Co.)

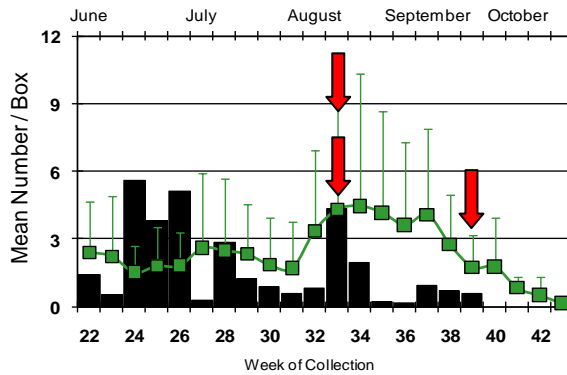


Inland

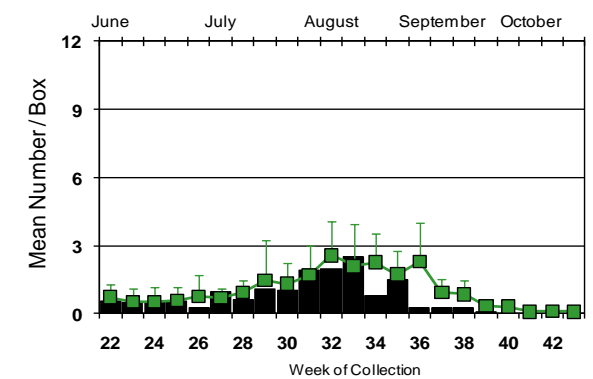
WINSLOW (Camden Co.)



CENTERTON (Salem Co.)



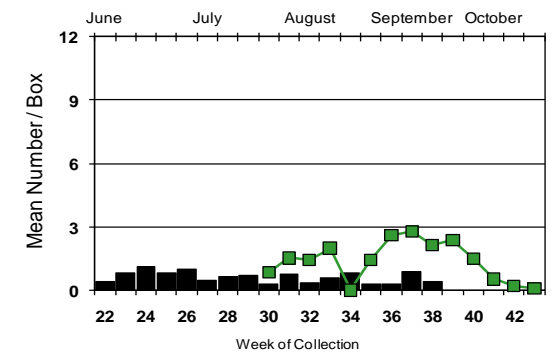
TURKEY SWAMP (Monmouth Co.)



Green Bank experienced an unusual increase in *Cs. melanura* atypical for the site, in comparison with the other traditional monitoring sites. Usually, Green Bank experiences fewer *Cs. melanura* (but also shows positive activity). This week, all other sites recorded fewer than one *Cs. melanura* per resting box.

↓ = Positive pool(s) detected.

GLASSBORO (Gloucester Co.)



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

- equine: 8(AL) 91(FL) 8(GA) 11(IN) 4(MA) 20(MS) 54(MI) 4(NC) 1(NE) 1(NH) 3(NY) 3(OH) 1(SC) 1(TX) 1(VA)
- mosquito: 2(CT) 2(GA) 6(FL) 3(IN) 65(MA) 1(NH) 21(NJ) 65(NY) 2(RI) 8(VA)
- sentinel: 2(AL) 150/30(FL chickens/wild) 1 turkey(ME) 3(SC) 19(TX) 5(VA)
- human: 1(TX-out of country acquired case) 4(FL) 1(MA>RI) 1(MA) 3(MI) 1(NY)

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					3
Alaska					
Arizona	2/3	285	3/9	2/3	88/101
Arkansas					3
California	359/374	1217/1259	219/241	16/18	51/61
Colorado	9	47		6	48/61
Connecticut		206/212			7
Delaware		1	6/11		
DC					
Florida	1Flavi		177/180	7/15	6/7
Georgia	3	85		1	9/10
Hawaii					
Idaho				1	1
Illinois	52/62	2040/2155		1	18/25
Indiana	1	283/305		6	5
Iowa		3	6	1	3
Kansas					5/6
Kentucky	1	5		4	
Louisiana		474/516	10/18	3	23
Maine					
Maryland		7			10
Mass.		114/121		1	3/4
Michigan	3	1		1	16/21
Minnesota	2	8			3
Mississippi		5		2	5
Missouri		51/53		1	2/4

	Birds	Mosquito Pools	Sentinels	Horses	Humans
Montana					
Nebraska	7/9	86		0	30/37
Nevada	1	17/18		2	3
New Hampshire		1		0	0
New Jersey	122/128	807/838	0	2	17/20
New Mexico					11/13
New York	2/13	870/888		0	84/99
North Carolina			1		
North Dakota				3	8
Ohio		228		0	2
Oklahoma		3			
Oregon	0	3	0	0	0
Pennsylvania	17/18	990/1041		2/4	13/14
Rhode Island		2			
South Carolina		7			
South Dakota		1			20
Tennessee	0	273/304		2	1
Texas	1	119/120		4/5	39/45
Utah		26/29	1	2/3	1
Vermont	1	9		0	0
Virginia		98	13		2
Washington	2	126		0	0
West Virginia	0	26		0	0
Wisconsin	4	3		0	1
Wyoming		16		1	3/4

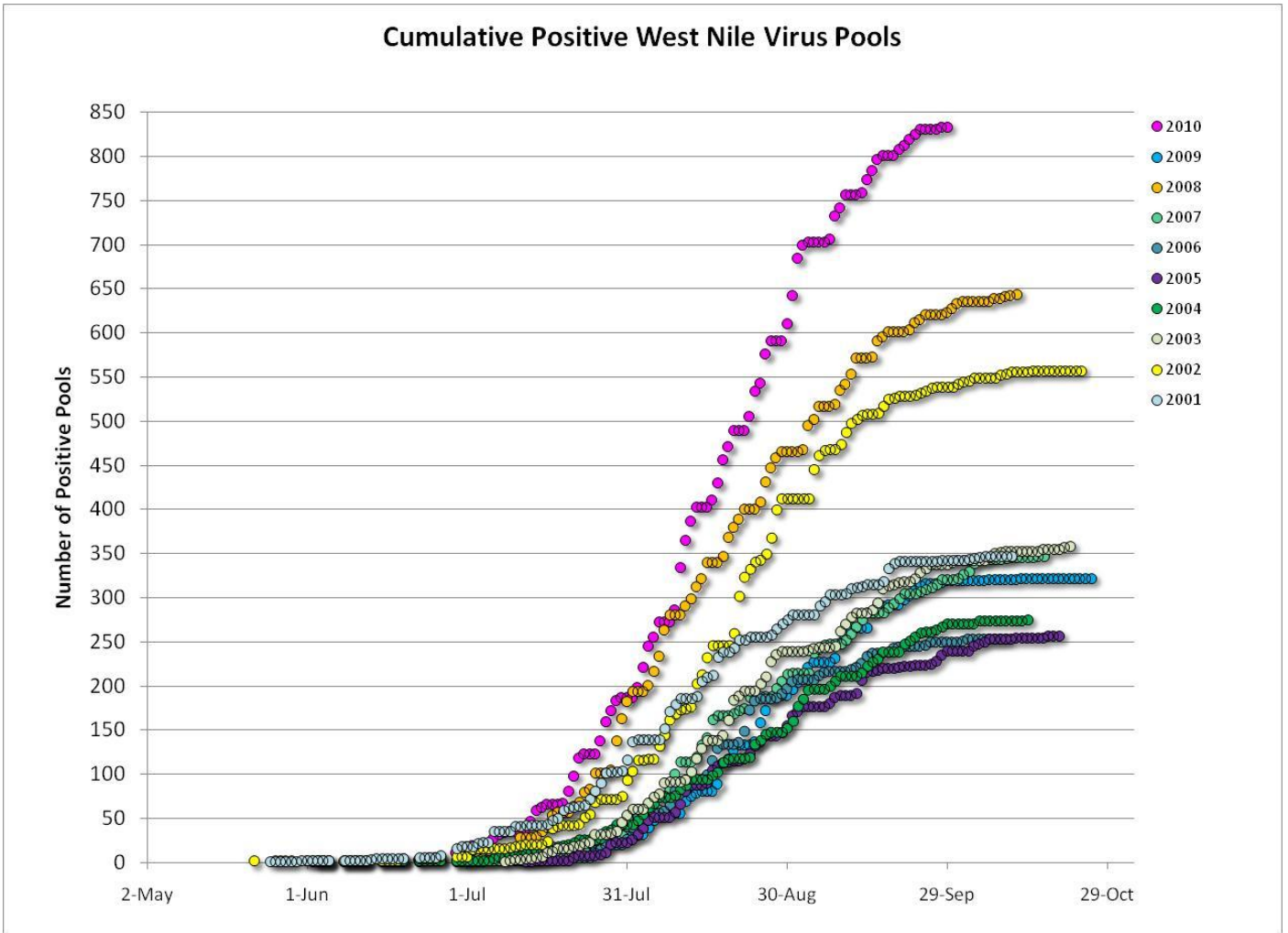
Protocol: New Jersey Department of Health and Senior Services (NJDHSS Public Health and Environmental Laboratories, PHEL) and the Cape May County Division of Mosquito Control tests mosquito pools using RT-PCR Taqman techniques.

Mosquito Species Submitted for West Nile Virus Testing through 5 Oct 2010

Species	Pools	Mosquitoes	Positives	MFIR
<i>Aedes albopictus</i>	627	3785	9	2.378
<i>Aedes canadensis canadensis</i>	28	483		
<i>Aedes cantator</i>	10	24		
<i>Aedes japonicus</i>	362	1623		
<i>Aedes sollicitans</i>	22	319		
<i>Aedes sticticus</i>	1	1		
<i>Aedes stimulans</i>	3	8		
<i>Aedes taeniorhynchus</i>	9	116		
<i>Aedes triseriatus</i>	175	384		
<i>Aedes trivittatus</i>	9	41		
<i>Aedes vexans</i>	131	1528		
<i>Anopheles barberi</i>	2	2		
<i>Anopheles bradleyi</i>	50	502		
<i>Anopheles crucians</i>	3	124		
<i>Anopheles punctipennis</i>	56	420		
<i>Anopheles quadrimaculatus</i>	114	1186		
<i>Anopheles walkeri</i>	5	29		
<i>Coquillettidia perturbans</i>	108	1655	1	0.604
<i>Culex erraticus</i>	159	4343		
<i>Culex pipiens</i>	955	19089	171	8.958
<i>Culex restuans</i>	323	1724	6	3.480
<i>Culex salinarius</i>	81	1056	1	0.947
<i>Culex spp.</i>	2874	101004	635	6.287
<i>Culex territans</i>	3	4		
<i>Culiseta inornata</i>	1	1		
<i>Culiseta melanura</i>	607	11282	15	1.330
<i>Culiseta minnesotae</i>	1	1		
<i>Orthopodomyia signifera</i>	5	6		
<i>Psorophora ciliata</i>	1	1		
<i>Psorophora columbiae</i>	4	9		
<i>Psorophora cyanescens</i>	1	1		
<i>Psorophora ferox</i>	4	5		
<i>Uranotaenia sapphirina</i>	3	13		
State Total	6737	150769	838	5.558

Remarks: The number of positive WNV mosquito pools to date is 838 and continues to be ahead of previous years (see graph next page – note that 2008 was adjusted to account for the results of additional pools tested after the end of the season). This week, new positives continue in the *Culex* species only, and the trend for new positive pools appears to be slowly leveling out.

Cumulative Positive West Nile Virus Pools



Humans, Horses and Wild Birds: To date in 2010, twenty human cases of West Nile virus have been detected (**three** additional from last week) and include the following counties: Atlantic (1 case), **Burlington (1)**, Camden (3), Cumberland (1), Essex (1), Hudson (2), Mercer (2), Monmouth (2), Ocean (2), Passaic County (**3**), **Salem (1)** and Union (1). 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>

To date, two horses have been infected with WNV. One is in Gloucester County, with an onset of symptoms on 18 Sept, and the other in Atlantic County with onset date of 17 August. No vaccinations were done for either horse.

One hundred and twenty-eight dead, wild birds out of 237 tested are been positive for WNV, continuing to be well ahead of last year's results in terms of number and timing. This year's positive birds include **114/158** corvids (**25** positives/32 tested American Crows, **32/45** Fish Crows, **46/60** Blue Jays and **11/21** unidentified Crows), **2/7** Hawks (unknown species) and **12/72** 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
838/ 6737 (12.4%)	308/ 7295 (4.2%)
2010 Positive Birds to date / Total Birds Submitted	This time last year
128/ 235 (54.5%)	29/ 109 (26.6%)

WNV Results by County through 5 Oct 2010

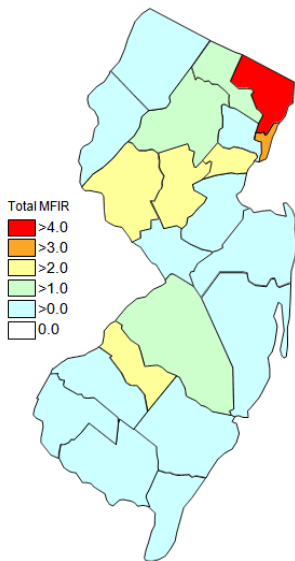
County	Species	Pools	Mosquitoes	Positives	MFIR
Atlantic		274	6603	60	9.087
	<i>Aedes albopictus</i>	34	308	1	3.247
	<i>Aedes canadensis canadensis</i>	3	56		
	<i>Aedes cantator</i>	3	14		
	<i>Aedes japonicus</i>	11	23		
	<i>Aedes sollicitans</i>	2	10		
	<i>Aedes taeniorhynchus</i>	1	24		
	<i>Aedes triseriatus</i>	4	8		
	<i>Aedes trivittatus</i>	3	26		
	<i>Aedes vexans</i>	27	419		
	<i>Anopheles bradleyi</i>	6	17		
	<i>Anopheles punctipennis</i>	6	109		
	<i>Anopheles quadrimaculatus</i>	4	7		
	<i>Coquillettidia perturbans</i>	10	37		
	<i>Culex erraticus</i>	7	26		
	<i>Culex</i> spp.	120	5046	57	11.296
	<i>Culex territans</i>	1	1		
	<i>Culiseta melanura</i>	31	471	2	4.246
	<i>Orthopodomyia signifera</i>	1	1		
Bergen		223	15612	140	8.967
	<i>Aedes albopictus</i>	5	30		
	<i>Aedes japonicus</i>	3	14		
	<i>Aedes triseriatus</i>	1	1		
	<i>Culex</i> spp.	214	15567	140	8.993
Burlington		303	9186	46	5.008
	<i>Aedes albopictus</i>	27	286		
	<i>Aedes canadensis canadensis</i>	4	109		
	<i>Aedes japonicus</i>	3	16		
	<i>Aedes sollicitans</i>	6	185		
	<i>Aedes taeniorhynchus</i>	2	9		
	<i>Aedes triseriatus</i>	1	7		
	<i>Aedes vexans</i>	19	346		
	<i>Anopheles bradleyi</i>	6	176		
	<i>Anopheles crucians</i>	2	122		
	<i>Anopheles punctipennis</i>	1	13		
	<i>Anopheles quadrimaculatus</i>	4	11		
	<i>Coquillettidia perturbans</i>	9	352		
	<i>Culex erraticus</i>	16	634		
	<i>Culex pipiens</i>	5	99	1	10.101
	<i>Culex restuans</i>	1	1		
	<i>Culex salinarius</i>	7	43		
	<i>Culex</i> spp.	112	4167	42	10.079
	<i>Culiseta melanura</i>	76	2599	3	1.154
	<i>Psorophora columbiae</i>	1	5		
	<i>Uranotaenia sapphirina</i>	1	6		
Camden		254	5940	76	12.795
	<i>Aedes albopictus</i>	44	150	3	20.000
	<i>Aedes canadensis canadensis</i>	1	1		
	<i>Aedes japonicus</i>	22	35		
	<i>Aedes triseriatus</i>	2	2		

<i>Aedes trivittatus</i>	1	1		
<i>Aedes vexans</i>	3	50		
<i>Anopheles punctipennis</i>	5	7		
<i>Anopheles quadrimaculatus</i>	2	2		
<i>Culex erraticus</i>	2	8		
<i>Culex pipiens</i>	1	28		
<i>Culex</i> spp.	137	4614	71	15.388
<i>Culex territans</i>	1	2		
<i>Culiseta melanura</i>	28	1029	2	1.944
<i>Othopodomyia signifera</i>	2	3		
<i>Uranotaenia sapphirina</i>	1	1		
Cape May	1685	17765	10	0.563
<i>Aedes albopictus</i>	107	198		
<i>Aedes canadensis canadensis</i>	3	6		
<i>Aedes cantator</i>	3	3		
<i>Aedes japonicus</i>	46	77		
<i>Aedes sollicitans</i>	9	80		
<i>Aedes taeniorhynchus</i>	6	83		
<i>Aedes triseriatus</i>	41	68		
<i>Aedes vexans</i>	8	199		
<i>Anopheles bradleyi</i>	28	297		
<i>Anopheles punctipennis</i>	4	12		
<i>Anopheles quadrimaculatus</i>	54	785		
<i>Coquillettidia perturbans</i>	16	157		
<i>Culex erraticus</i>	117	3596		
<i>Culex pipiens</i>	543	5869	6	1.022
<i>Culex restuans</i>	263	1221	2	1.638
<i>Culex salinarius</i>	53	736	1	1.359
<i>Culex</i> spp.	177	1324		
<i>Culiseta melanura</i>	207	3054	1	0.327
Cumberland	72	704	1	1.420
<i>Aedes albopictus</i>	10	53		
<i>Aedes triseriatus</i>	7	10		
<i>Anopheles bradleyi</i>	3	4		
<i>Anopheles punctipennis</i>	3	4		
<i>Anopheles quadrimaculatus</i>	5	13		
<i>Culex erraticus</i>	7	56		
<i>Culex pipiens</i>	7	40		
<i>Culex restuans</i>	6	15		
<i>Culex territans</i>	1	1		
<i>Culiseta melanura</i>	23	508	1	1.969
Essex	287	3411	25	7.329
<i>Aedes albopictus</i>	49	181		
<i>Aedes japonicus</i>	37	296		
<i>Aedes sollicitans</i>	1	18		
<i>Aedes stimulans</i>	1	3		
<i>Aedes triseriatus</i>	21	42		
<i>Aedes vexans</i>	21	135		
<i>Culex</i> spp.	157	2736	25	9.137
Gloucester	419	11227	117	10.421
<i>Aedes albopictus</i>	28	289	1	3.460
<i>Aedes japonicus</i>	4	21		

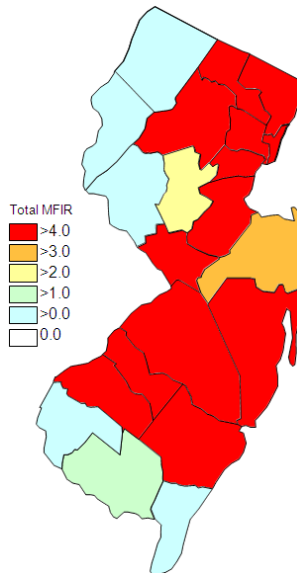
<i>Aedes vexans</i>	4	70		
<i>Anopheles barberi</i>	1	1		
<i>Anopheles punctipennis</i>	3	55		
<i>Anopheles quadrimaculatus</i>	4	46		
<i>Coquillettidia perturbans</i>	5	15	1	66.667
<i>Culex pipiens</i>	272	8902	112	12.581
<i>Culiseta melanura</i>	98	1828	3	1.641
Hudson	204	10303	92	8.929
<i>Aedes albopictus</i>	1	25		
<i>Culex</i> spp.	203	10278	92	8.951
Hunterdon	240	11278	11	0.943
<i>Aedes albopictus</i>	2	61		
<i>Culex</i> spp.	238	11598	11	0.948
Mercer	226	4989	57	11.425
<i>Aedes albopictus</i>	47	115	1	8.696
<i>Aedes japonicus</i>	25	38		
<i>Aedes triseriatus</i>	4	5		
<i>Aedes vexans</i>	3	75		
<i>Culex pipiens</i>	100	4057	52	12.817
<i>Culex restuans</i>	32	368	3	8.152
<i>Culex salinarius</i>	12	264		
<i>Culex</i> spp.	3	67	1	14.925
Middlesex	251	9876	53	5.367
<i>Aedes albopictus</i>	11	74		
<i>Aedes japonicus</i>	3	21		
<i>Aedes triseriatus</i>	1	6		
<i>Culex</i> spp.	236	9775	53	5.422
Monmouth	327	2558	9	3.518
<i>Aedes albopictus</i>	62	399		
<i>Aedes canadensis canadensis</i>	10	89		
<i>Aedes cantator</i>	3	6		
<i>Aedes japonicus</i>	40	107		
<i>Aedes sollicitans</i>	3	24		
<i>Aedes triseriatus</i>	13	21		
<i>Aedes vexans</i>	5	12		
<i>Anopheles barberi</i>	1	1		
<i>Anopheles crucians</i>	1	2		
<i>Anopheles punctipennis</i>	3	5		
<i>Anopheles quadrimaculatus</i>	5	5		
<i>Coquillettidia perturbans</i>	6	10		
<i>Culex erraticus</i>	5	11		
<i>Culex pipiens</i>	1	1		
<i>Culex restuans</i>	1	1		
<i>Culex salinarius</i>	2	2		
<i>Culex</i> spp.	96	1093	8	7.319
<i>Culiseta melanura</i>	67	766	1	1.305
<i>Orthopodomyia signifera</i>	2	2		
<i>Psorophora cyanescens</i>	1	1		
Morris	236	7600	47	6.184

	<i>Aedes albopictus</i>	2	13		
	<i>Aedes japonicus</i>	20	161		
	<i>Aedes triseriatus</i>	1	1		
	<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.	201	7125	47	6.596
Ocean		312	4054	18	4.440
	<i>Aedes albopictus</i>	78	986	1	1.014
	<i>Aedes canadensis canadensis</i>	7	222		
	<i>Aedes japonicus</i>	31	94		
	<i>Aedes sollicitans</i>	1	2		
	<i>Aedes sticticus</i>	1	1		
	<i>Aedes triseriatus</i>	12	29		
	<i>Aedes trivittatus</i>	2	2		
	<i>Aedes vexans</i>	6	19		
	<i>Anopheles bradleyi</i>	3	3		
	<i>Anopheles punctipennis</i>	5	8		
	<i>Anopheles quadrimaculatus</i>	4	4		
	<i>Coquillettidia perturbans</i>	13	103		
	<i>Culex erraticus</i>	2	2		
	<i>Culex pipiens</i>	1	2		
	<i>Culex restuans</i>	5	6	1	166.667
	<i>Culex salinarius</i>	5	7		
	<i>Culex</i> spp.	96	2328	15	6.443
	<i>Culiseta inornata</i>	1	1		
	<i>Culiseta melanura</i>	37	232	1	4.310
	<i>Psorophora ferox</i>	2	3		
Passaic		146	1851	11	5.943
	<i>Aedes albopictus</i>	30	138		
	<i>Aedes japonicus</i>	25	178		
	<i>Aedes triseriatus</i>	10	21		
	<i>Aedes trivittatus</i>	1	1		
	<i>Aedes vexans</i>	1	3		
	<i>Anopheles punctipennis</i>	4	8		
	<i>Anopheles quadrimaculatus</i>	1	2		
	<i>Coquillettidia perturbans</i>	4	44		
	<i>Culex</i> spp.	69	1455	11	7.560
	<i>Psorophora ferox</i>	1	1		
Salem		303	2628	1	0.381
	<i>Aedes albopictus</i>	57	234		
	<i>Aedes cantator</i>	1	1		
	<i>Aedes japonicus</i>	23	29		
	<i>Aedes triseriatus</i>	18	20		
	<i>Aedes vexans</i>	27	148		
	<i>Anopheles bradleyi</i>	4	5		
	<i>Anopheles punctipennis</i>	5	5		
	<i>Anopheles quadrimaculatus</i>	24	162		
	<i>Anopheles walkeri</i>	4	5		
	<i>Coquillettidia perturbans</i>	11	22		

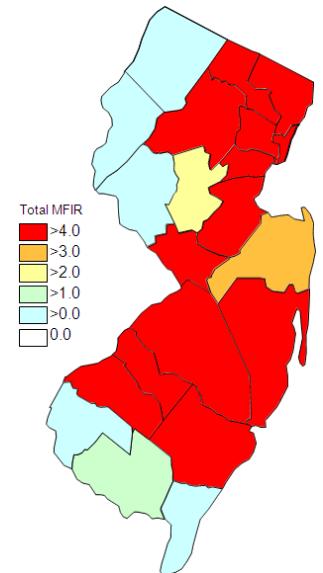
	<i>Culex erraticus</i>	3	10		
	<i>Culex pipiens</i>	12	26		
	<i>Culex restuans</i>	7	9		
	<i>Culex</i> spp.	83	1186		
	<i>Culiseta melanura</i>	22	763	1	1.311
	<i>Psorophora columbiae</i>	2	3		
Somerset		243	2858	8	2.799
	<i>Aedes albopictus</i>	14	39		
	<i>Aedes japonicus</i>	20	130		
	<i>Aedes triseriatus</i>	18	77		
	<i>Anopheles punctipennis</i>	11	35		
	<i>Anopheles quadrimaculatus</i>	2	4		
	<i>Culex</i> spp.	178	2573	8	3.109
Sussex		362	9401	6	0.638
	<i>Aedes japonicus</i>	37	291		
	<i>Aedes stimulans</i>	2	5		
	<i>Aedes triseriatus</i>	16	48		
	<i>Coquillettidia perturbans</i>	17	321		
	<i>Culex pipiens</i>	13	65		
	<i>Culex restuans</i>	8	103		
	<i>Culex salinarius</i>	2	4		
	<i>Culex</i> spp.	248	8531	6	0.703
	<i>Culiseta melanura</i>	18	32		
	<i>Culiseta minnesotae</i>	1	1		
Union		168	5932	44	7.417
	<i>Aedes albopictus</i>	19	206	2	9.709
	<i>Aedes japonicus</i>	10	88		
	<i>Coquillettidia perturbans</i>	1	9		
	<i>Culex</i> spp.	138	5629	42	7.461
Warren		202	6612	6	0.907
	<i>Aedes japonicus</i>	2	4		
	<i>Aedes triseriatus</i>	5	18		
	<i>Aedes trivittatus</i>	2	11		
	<i>Aedes vexans</i>	6	47		
	<i>Anopheles punctipennis</i>	4	153		
	<i>Anopheles quadrimaculatus</i>	2	63		
	<i>Anopheles walkeri</i>	1	24		
	<i>Coquillettidia perturbans</i>	10	378		
	<i>Culex</i> spp.	168	5912	6	1.015
	<i>Psorophora ciliata</i>	1	1		
	<i>Psorophora ferox</i>	1	1		
Grand Total		6737	150769	838	5.558



Cumulative WNV activity in 2009.



WNV activity to 5 Oct, 2010.



WNV activity last week, 2010.

Saint Louis Encephalitis (SLE) through 5 Oct 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		285	8994		
	<i>Aedes albopictus</i>	27	286		
	<i>Aedes canadensis canadensis</i>	4	109		
	<i>Aedes japonicus</i>	3	16		
	<i>Aedes sollicitans</i>	6	185		
	<i>Aedes taeniorhynchus</i>	2	9		
	<i>Aedes triseriatus</i>	1	7		
	<i>Aedes vexans</i>	19	346		
	<i>Anopheles bradleyi</i>	6	176		
	<i>Anopheles crucians</i>	2	122		
	<i>Anopheles punctipennis</i>	1	13		
	<i>Anopheles quadrimaculatus</i>	3	10		
	<i>Coquillettidia perturbans</i>	9	352		
	<i>Culex erraticus</i>	16	634		
	<i>Culex pipiens</i>	5	99		
	<i>Culex restuans</i>	1	1		
	<i>Culex salinarius</i>	7	43		
	<i>Culex</i> spp.	112	4167		
	<i>Culiseta melanura</i>	59	2408		
	<i>Psorophora columbiae</i>	1	5		
	<i>Uranotaenia sapphirina</i>	1	6		
Camden		213	4758		
	<i>Aedes albopictus</i>	40	123		
	<i>Aedes canadensis canadensis</i>	1	1		

	<i>Aedes japonicus</i>	20	33		
	<i>Aedes triseriatus</i>	2	2		
	<i>Aedes trivittatus</i>	1	1		
	<i>Aedes vexans</i>	3	50		
	<i>Anopheles punctipennis</i>	5	7		
	<i>Anopheles quadrimaculatus</i>	1	1		
	<i>Culex erraticus</i>	2	8		
	<i>Culex</i> spp.	131	4518		
	<i>Culex territans</i>	1	2		
	<i>Culiseta melanura</i>	1	1		
	<i>Orthopodomyia signifera</i>	2	3		
	<i>Psorophora columbiae</i>	1	1		
	<i>Uranotaenia sapphirina</i>	2	7		
Essex		260	3347		
	<i>Aedes albopictus</i>	43	168		
	<i>Aedes japonicus</i>	33	286		
	<i>Aedes sollicitans</i>	1	18		
	<i>Aedes triseriatus</i>	12	24		
	<i>Aedes vexans</i>	14	115		
	<i>Culex</i> spp.	157	2736		
Hudson		162	8603		
	<i>Aedes albopictus</i>	1	25		
	<i>Culex</i> spp.	161	8578		
Salem		1	7		
	<i>Culex</i> spp.	1	7		
Sussex		16	48		
	<i>Aedes triseriatus</i>	16	48		
Grand Total		937	25757		

La Crosse Encephalitis (LAC) through 5 Oct 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		17	30		
	<i>Aedes triseriatus</i>	17	30		
Cumberland		7	10		

<i>Aedes triseriatus</i>	7	10		
Salem	5	5		
<i>Aedes triseriatus</i>	5	5		
Warren	10	106		
<i>Aedes canadensis canadensis</i>	4	86		
<i>Aedes triseriatus</i>	6	20		
Grand Total	39	151		