

VECTOR SURVEILLANCE IN NEW JERSEY
EEE, WNV, SLE and LAC
CDC WEEK 40: October 3 to October 9, 2010
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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	1.00	0.68	222 ^{††}	18	0	0
Corbin City (Atlantic County)	Coastal	0.50	0.00	367	19	0	0
Dennisville (Cape May County)	Coastal	1.49	0.00	722	27	2	2.77
Winslow (Camden County)	Inland	0.74	0.10	2145	50	3	1.40
Centerton (Salem County)	Inland	1.77	0.10	1593	40	3	1.89
Turkey Swamp (Monmouth County)	Inland	0.31	0.00	762 [†]	65	0	0
Glassboro (Gloucester County)	Inland	2.37	0.04	513	19	0	0

*Including trial run last week in May. † adjusted from previous week †† this weeks total not included, to be in next week's report

Remarks: There are **21 positive EEE pools** to report at this time, no changes 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). *Culiseta melanura* mosquitoes forming

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	1792	2	1.12
Cumberland	Gravid, RB	509	2	3.93
Gloucester	RB	1501	3	2.00
Ocean	CO ₂ , Gravid, RB	232		
Salem	CO ₂	1		
Sussex	CO ₂ , NJLT	32		
TOTAL		6495	11	1.69

236 pools from 6275 mosquitoes out of the resting box sites have been tested. An additional 6495 *Cs. melanura* forming 388 pools have been sampled by the counties using a variety of traps (table to the left), producing a total of 11 positive pools. The remaining two pools were from *Culex erraticus*, collected previously.

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

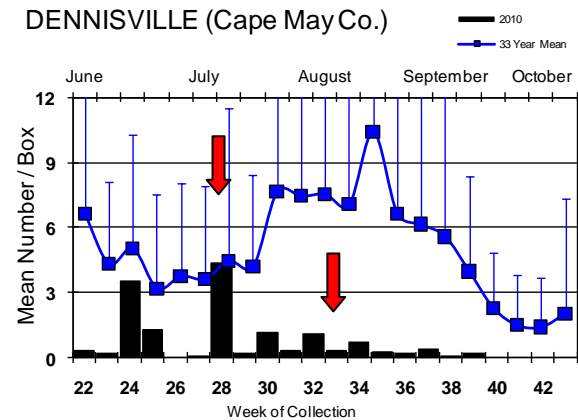
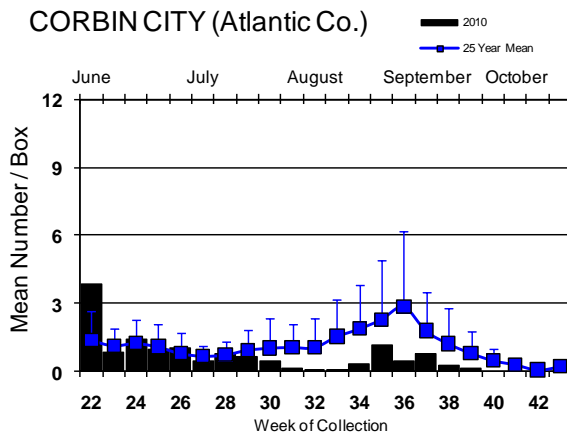
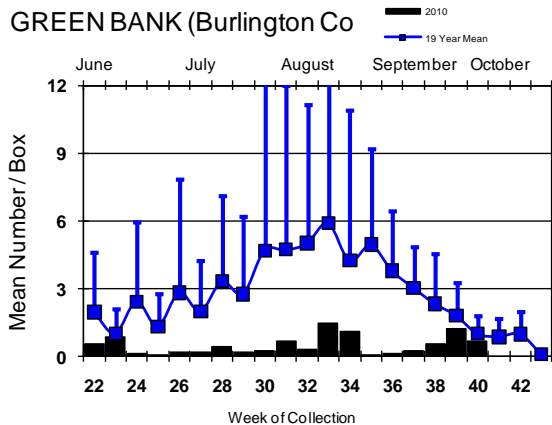
Species other than <i>Cs. melanura</i>	Pools	Mosquitoes	Positives	MFIR
<i>Aedes albopictus</i>	36	310		
<i>Aedes canadensis canadensis</i>	7	115		
<i>Aedes cantator</i>	3	3		
<i>Aedes japonicus</i>	5	22		
<i>Aedes sollicitans</i>	15	265		
<i>Aedes taeniorhynchus</i>	3	10		
<i>Aedes triseriatus</i>	18	57		
<i>Aedes trivittatus</i>	1	2		
<i>Aedes vexans</i>	22	353		
<i>Anopheles bradleyi</i>	40	464		
<i>Anopheles crucians</i>	2	122		
<i>Anopheles punctipennis</i>	9	79		
<i>Anopheles quadrimaculatus</i>	16	175		
<i>Coquillettidia perturbans</i>	54	897		
<i>Culex erraticus</i>	154	4379	2	0.46
<i>Culex pipiens</i>	396	2886		
<i>Culex restuans</i>	14	31		
<i>Culex salinarius</i>	56	689		
<i>Culex</i> spp.	239	4929		
<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	1095	15802	2	0.13

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

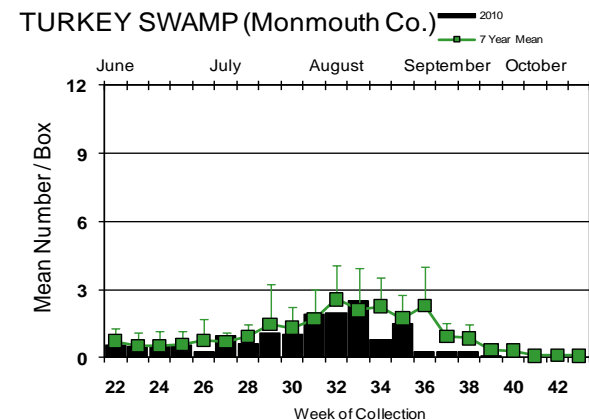
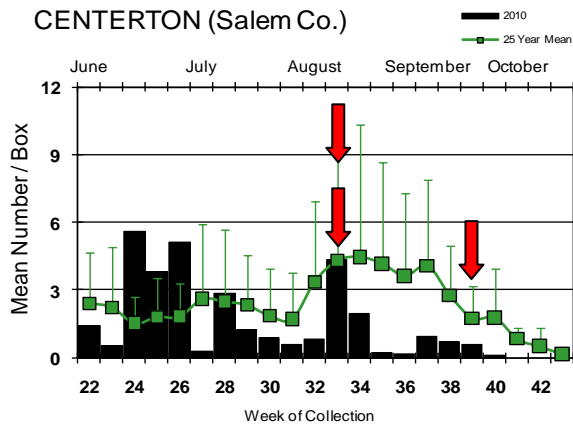
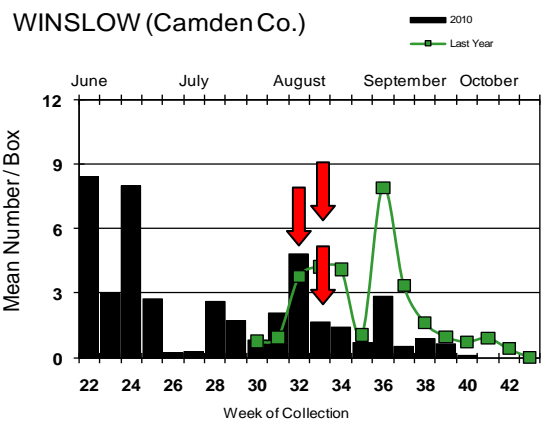
Horses and Vaccinations: The fate of unvaccinated equids reinforces the necessity of maintaining a vaccination schedule for arboviruses. For vaccination schedules recommended by the American Association of Equine Practices, see: http://www.aaep.org/vaccination_guidelines.htm

Culiseta melanura Population Graphs

Coastal

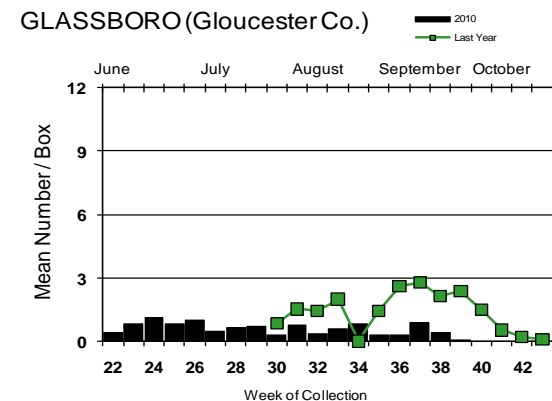


Inland



Green Bank continued to show higher populations in *Cs. melanura* atypical for the site, in contrast to the other traditional monitoring sites. Typically, Green Bank experiences fewer *Cs. melanura* (but also shows positive activity) than most of the other sites. This week continued the decrease in activity at the other sites, with Corbin City, Dennisville and Turkey Swamp recording no *Cs. melanura*.

↓ = Positive pool(s) detected.



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) 56(MI) 4(NC) 1(NE) 1(NH) 7(NY) 4(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) 153/34(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	3/5	285/317	3	2	101/126
Arkansas					3/5
California	374/385	1217/1244	241	18	61/66
Colorado	9	47		6/7	61/68
Connecticut		212/217			7/8
Delaware		1	11/13		
DC					
Florida	1Flavi		180/247	15/16	7
Georgia	3	85		1	10/11
Hawaii					
Idaho				1	1
Illinois	62/63	2155/2187		1	25/34
Indiana	1	305/318		6	5/8
Iowa		3/7	6/12	1	3/6
Kansas					6
Kentucky	1	5		4/5	2
Louisiana		516	18	3	23/27
Maine					
Maryland		7/8		1	10
Mass.		121		1	4/5
Michigan	3	1		1	21
Minnesota	2/3	8/9			3/5
Mississippi		5		2	5/6
Missouri		53/54		1	4

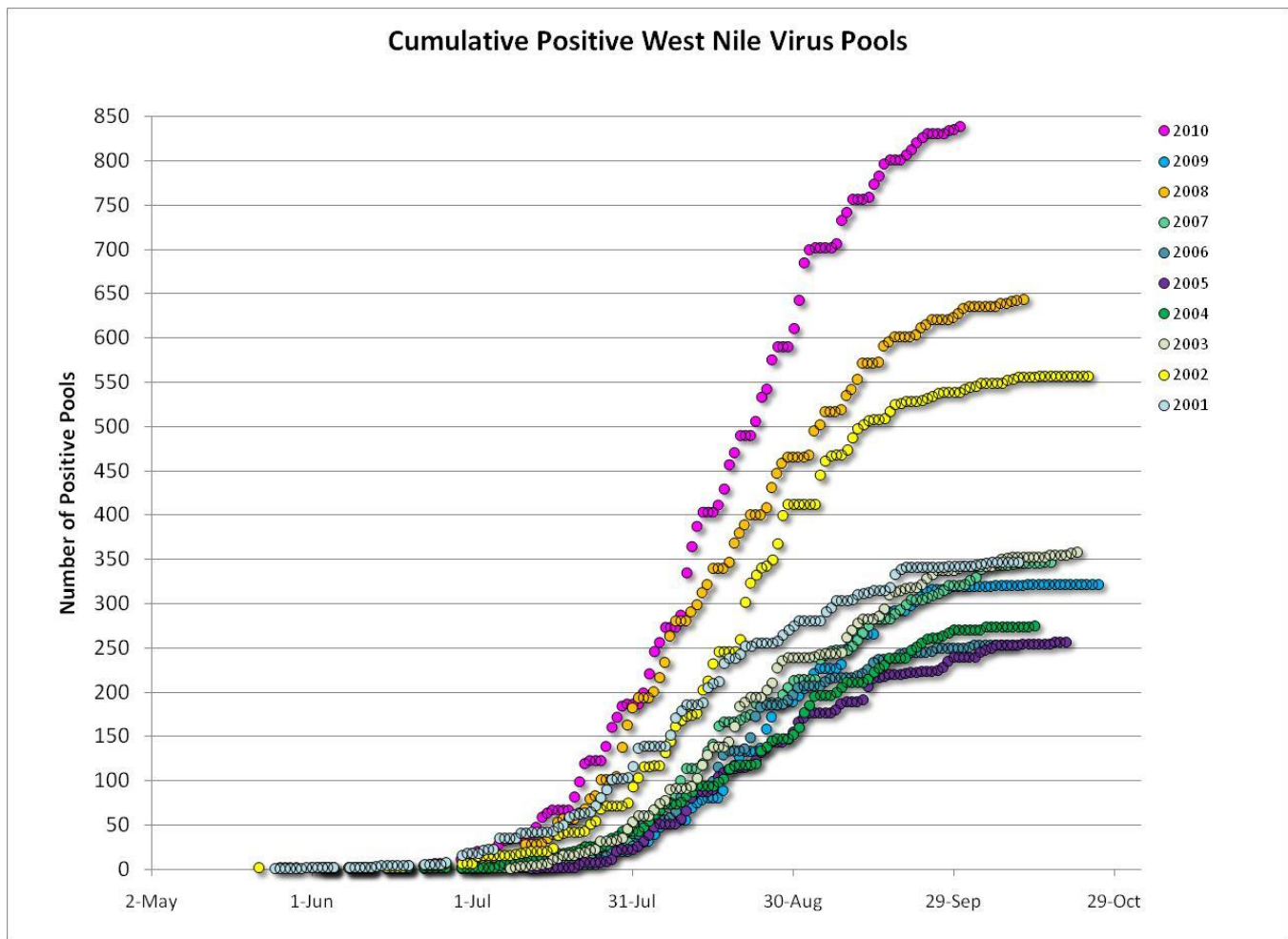
	Birds	Mosquito Pools	Sentinels	Horses	Humans
Montana		2			
Nebraska	9	86/111		0	37/38
Nevada	1	18/19		2	3
New Hampshire		1		0	1
New Jersey	128/129	838/844	0	2	20/24
New Mexico					13/17
New York	13	888/895		0	99/115
North Carolina			1		
North Dakota				3	8
Ohio		228		0	2
Oklahoma		3			
Oregon	0	3	0	0	0
Pennsylvania	18/20	1041/1053		4/7	14/18
Rhode Island		2			
South Carolina		7/12			
South Dakota		1			20
Tennessee	0	304/335		2	1
Texas	1	120		5/6	45
Utah		29	1	3	1
Vermont	1	9		0	0
Virginia		98/104	13		2
Washington	2	126		0	0
West Virginia	0	26		0	0
Wisconsin	4	3		0	1
Wyoming		16		1	4/5

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 12 Oct 2010

Species	Pools	Mosquitoes	Positives	MFIR
<i>Aedes albopictus</i>	657	3881	9	2.319
<i>Aedes canadensis canadensis</i>	28	483		
<i>Aedes cantator</i>	10	24		
<i>Aedes japonicus</i>	382	1727		
<i>Aedes sollicitans</i>	24	323		
<i>Aedes sticticus</i>	1	1		
<i>Aedes stimulans</i>	3	8		
<i>Aedes taeniorhynchus</i>	9	116		
<i>Aedes triseriatus</i>	177	386		
<i>Aedes trivittatus</i>	9	41		
<i>Aedes vexans</i>	136	1542		
<i>Anopheles barberi</i>	2	2		
<i>Anopheles bradleyi</i>	55	510		
<i>Anopheles crucians</i>	3	124		
<i>Anopheles punctipennis</i>	59	428		
<i>Anopheles quadrimaculatus</i>	118	1212		
<i>Anopheles walkeri</i>	5	29		
<i>Coquillettidia perturbans</i>	108	1655	1	0.604
<i>Culex erraticus</i>	168	4432		
<i>Culex pipiens</i>	998	19799	173	8.738
<i>Culex restuans</i>	352	1796	6	3.341
<i>Culex salinarius</i>	81	1056	1	0.947
<i>Culex spp.</i>	2956	102743	640	6.229
<i>Culex territans</i>	3	4		
<i>Culiseta inornata</i>	1	1		
<i>Culiseta melanura</i>	623	11346	15	1.322
<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	6987	153705	845	5.498

Remarks: The number of positive WNV mosquito pools to date is 845 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 (*Cs. pipiens* and *Culex Mix*), and the trend for new positive pools continues to level out.



Humans, Horses and Wild Birds: To date in 2010, twenty-four human cases of West Nile virus have been detected (**four** additional from last week) and include the following counties: Atlantic (1 case), Burlington (**2**), Camden (**5**), Cumberland (1), Essex (1), Hudson (2), Mercer (**3**), 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-nine 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 **115/160** corvids (**25** positives/32 tested American Crows, **33/46** Fish Crows, **46/61** Blue Jays and **11/21** unidentified Crows), **2/7** Hawks (unknown species) and **12/70** 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
845/ 6737 (12.4%)	309/ 7482 (4.1%)
2010 Positive Birds to date / Total Birds Submitted	This time last year
129/ 237 (54.4%)	29/ 112 (25.9%)

WNV Results by County through 12 Oct 2010

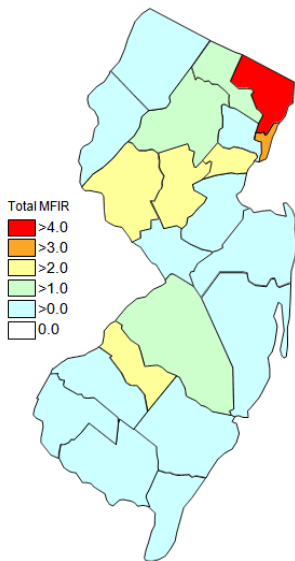
County	Species	Pools	Mosquitoes	Positives	MFIR
Atlantic		281	6659	60	9.010
	<i>Aedes albopictus</i>	35	310	1	3.226
	<i>Aedes canadensis canadensis</i>	3	56		
	<i>Aedes cantator</i>	3	14		
	<i>Aedes japonicus</i>	11	23		
	<i>Aedes sollicitans</i>	3	11		
	<i>Aedes taeniorhynchus</i>	1	24		
	<i>Aedes triseriatus</i>	4	8		
	<i>Aedes trivittatus</i>	3	26		
	<i>Aedes vexans</i>	28	427		
	<i>Anopheles bradleyi</i>	7	18		
	<i>Anopheles punctipennis</i>	6	109		
	<i>Anopheles quadrimaculatus</i>	5	9		
	<i>Coquillettidia perturbans</i>	10	37		
	<i>Culex erraticus</i>	7	26		
	<i>Culex</i> spp.	122	5088	57	11.203
	<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		304	9217	46	4.991
	<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>	77	2630	3	1.141
	<i>Psorophora columbiae</i>	1	5		
	<i>Uranotaenia sapphirina</i>	1	6		
Camden		255	5945	76	12.784
	<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	1779	18380	11	0.598
<i>Aedes albopictus</i>	117	213		
<i>Aedes canadensis canadensis</i>	3	6		
<i>Aedes cantator</i>	3	3		
<i>Aedes japonicus</i>	47	78		
<i>Aedes sollicitans</i>	9	80		
<i>Aedes taeniorhynchus</i>	6	83		
<i>Aedes triseriatus</i>	42	69		
<i>Aedes vexans</i>	10	201		
<i>Anopheles bradleyi</i>	32	304		
<i>Anopheles punctipennis</i>	5	13		
<i>Anopheles quadrimaculatus</i>	56	803		
<i>Coquillettidia perturbans</i>	16	157		
<i>Culex erraticus</i>	124	3674		
<i>Culex pipiens</i>	574	6273	6	0.956
<i>Culex restuans</i>	286	1271	2	1.574
<i>Culex salinarius</i>	53	736	1	1.359
<i>Culex</i> spp.	183	1349	1	0.741
<i>Culiseta melanura</i>	213	3067	1	0.326
Cumberland	77	713	1	1.403
<i>Aedes albopictus</i>	11	55		
<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>	8	58		
<i>Culex pipiens</i>	9	44		
<i>Culex restuans</i>	6	15		
<i>Culex territans</i>	1	1		
<i>Culiseta melanura</i>	24	509	1	1.965
Essex	301	3508	25	7.127
<i>Aedes albopictus</i>	50	183		
<i>Aedes japonicus</i>	40	300		
<i>Aedes sollicitans</i>	1	18		
<i>Aedes stimulans</i>	1	3		
<i>Aedes triseriatus</i>	21	42		
<i>Aedes vexans</i>	23	139		
<i>Culex</i> spp.	165	2823	25	8.856
Gloucester	433	11297	117	10.357
<i>Aedes albopictus</i>	30	303	1	3.300
<i>Aedes japonicus</i>	5	26		

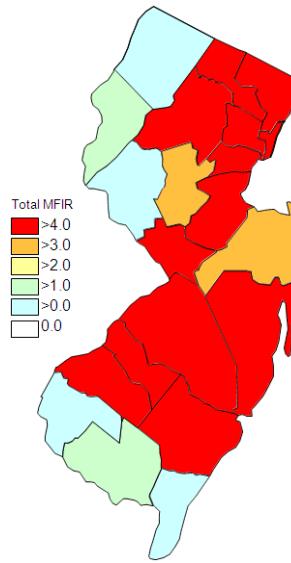
<i>Aedes vexans</i>	4	70		
<i>Anopheles barberi</i>	1	1		
<i>Anopheles punctipennis</i>	5	62		
<i>Anopheles quadrimaculatus</i>	4	46		
<i>Coquillettidia perturbans</i>	5	15	1	66.667
<i>Culex pipiens</i>	277	8940	112	12.528
<i>Culiseta melanura</i>	102	1834	3	1.636
Hudson	217	10928	93	8.510
<i>Aedes albopictus</i>	1	25		
<i>Culex</i> spp.	216	10903	93	8.530
Hunterdon	255	11948	11	0.921
<i>Aedes albopictus</i>	2	61		
<i>Culex</i> spp.	253	11887	11	0.925
Mercer	241	5302	59	11.128
<i>Aedes albopictus</i>	52	143	1	6.993
<i>Aedes japonicus</i>	25	38		
<i>Aedes triseriatus</i>	4	5		
<i>Aedes vexans</i>	3	75		
<i>Culex pipiens</i>	105	4321	54	12.497
<i>Culex restuans</i>	37	389	3	7.712
<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	344	2611	9	3.447
<i>Aedes albopictus</i>	67	422		
<i>Aedes canadensis canadensis</i>	10	89		
<i>Aedes cantator</i>	3	6		
<i>Aedes japonicus</i>	41	108		
<i>Aedes sollicitans</i>	4	27		
<i>Aedes triseriatus</i>	14	22		
<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>	6	11		
<i>Coquillettidia perturbans</i>	6	10		
<i>Culex erraticus</i>	6	20		
<i>Culex pipiens</i>	1	1		
<i>Culex restuans</i>	2	2		
<i>Culex salinarius</i>	2	2		
<i>Culex</i> spp.	100	1099	8	7.279
<i>Culiseta melanura</i>	69	769	1	1.300
<i>Orthopodomyia signifera</i>	2	2		
<i>Psorophora cyanescens</i>	1	1		
Morris	251	7906	47	5.945

	<i>Aedes albopictus</i>	4	17		
	<i>Aedes japonicus</i>	25	204		
	<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.	209	7384	47	6.365
Ocean		317	4062	18	4.431
	<i>Aedes albopictus</i>	81	992	1	1.008
	<i>Aedes canadensis canadensis</i>	7	222		
	<i>Aedes japonicus</i>	33	96		
	<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		304	2633	1	0.380
	<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		

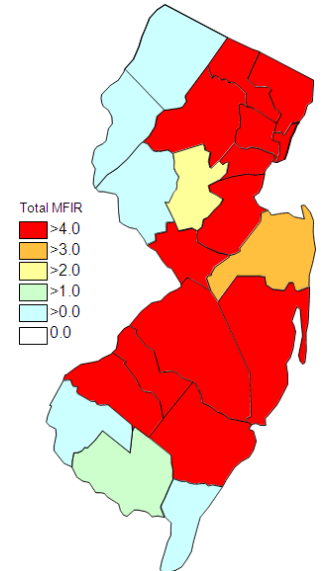
	<i>Culex erraticus</i>	3	10		
	<i>Culex pipiens</i>	12	26		
	<i>Culex restuans</i>	7	9		
	<i>Culex</i> spp.	83	1186		
	<i>Culiseta melanura</i>	23	768	1	1.302
	<i>Psorophora columbiae</i>	2	3		
Somerset		255	3016	10	3.316
	<i>Aedes albopictus</i>	14	39		
	<i>Aedes japonicus</i>	21	132		
	<i>Aedes triseriatus</i>	18	77		
	<i>Anopheles punctipennis</i>	11	35		
	<i>Anopheles quadrimaculatus</i>	2	4		
	<i>Culex</i> spp.	189	2729	10	3.664
Sussex		376	9507	6	0.631
	<i>Aedes japonicus</i>	43	337		
	<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.	256	8591	6	0.698
	<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		209	6802	7	1.029
	<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.	175	6102	7	1.147
	<i>Psorophora ciliata</i>	1	1		
	<i>Psorophora ferox</i>	1	1		
Grand Total		6987	153705	845	5.498



Cumulative WNV activity in 2009.



WNV activity to 12 Oct, 2010.



WNV activity last week, 2010.

Saint Louis Encephalitis (SLE) through 12 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		262	3421		
	<i>Aedes albopictus</i> *	39	159		
	<i>Aedes japonicus</i>	36	290		
	<i>Aedes sollicitans</i>	1	18		
	<i>Aedes triseriatus</i> *	6	13		
	<i>Aedes vexans</i>	15	118		
	<i>Culex</i> spp.	165	2823		
	*decrease from prev. week				
Hudson		175	9228		
	<i>Aedes albopictus</i>	1	25		
	<i>Culex</i> spp.	174	9203		
Salem		1	7		
	<i>Culex</i> spp.	1	7		
Sussex		16	48		
	<i>Aedes triseriatus</i>	16	48		
Grand Total		952	26456		

La Crosse Encephalitis (LAC) through 12 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		18	31		
	<i>Aedes triseriatus</i>	18	31		
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	40	152		