

VECTOR SURVEILLANCE IN NEW JERSEY
EEE, WNV, SLE and LAC
CDC WEEK 44: October 31 to November 6, 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	nd [†]	nc ^{††}	251	22	0	0
Corbin City (Atlantic County)	Coastal	nd [†]	nc ^{††}	369	20	0	0
Dennisville (Cape May County)	Coastal	nd [†]	nc ^{††}	725	28	2	2.76
Winslow (Camden County)	Inland	nd [†]	nc ^{††}	2179	54	3	1.38
Centerton (Salem County)	Inland	nd [†]	nc ^{††}	1617	43	3	1.86
Turkey Swamp (Monmouth County)	Inland	nd [†]	nc ^{††}	763	66	0	0
Glassboro (Gloucester County)	Inland	nd [†]	nc ^{††}	513	19	0	0

*Including trial run last week in May. † No data †† No collection

Remarks: The counties have stopped collection from the traditional resting box sites and there remain **21 positive EEE pools** to report at this time with 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 252 pools from 6417 mosquitoes out of the resting box sites have been tested. An additional 7022 *Cs. melanura* mosquitoes forming 419 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.

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	2582	4	1.55
Camden	Gravid	3		
Cape May	CO ₂ , Gravid, RB	2130	2	0.94
Cumberland	Gravid, RB	509	2	3.93
Gloucester	RB	1516	3	1.97
Ocean	CO ₂ , Gravid, RB	232		
Salem	CO ₂	1		
Sussex	CO ₂ , NJLT	32		
TOTAL		7022	11	1.57

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

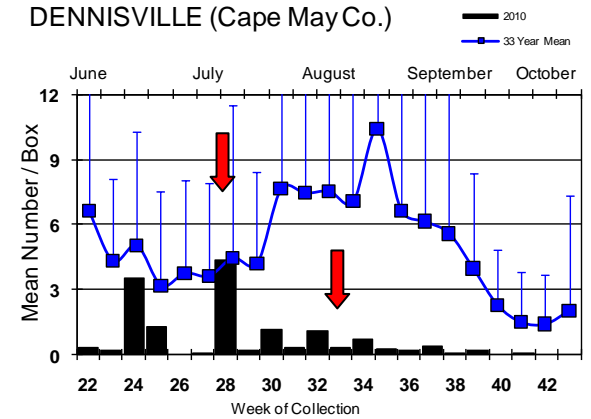
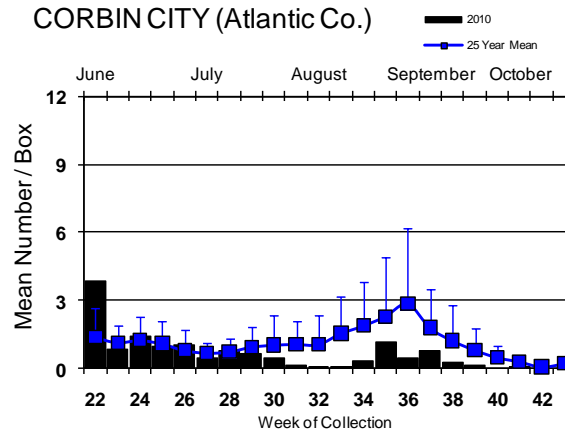
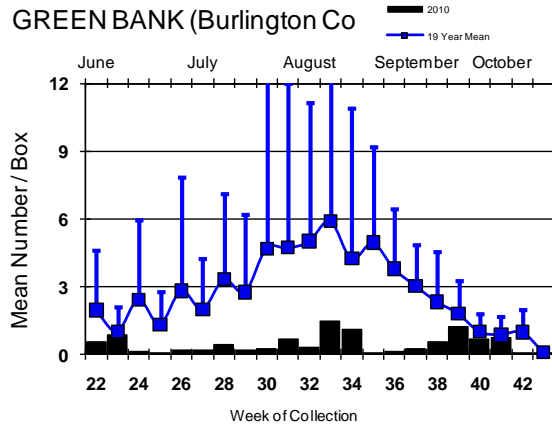
Species other than <i>Cs. melanura</i>	Pools	Mosquitoes	Positives	MFIR
<i>Aedes albopictus</i>	39	313		
<i>Aedes canadensis canadensis</i>	8	117		
<i>Aedes cantator</i>	3	3		
<i>Aedes japonicus</i>	6	23		
<i>Aedes sollicitans</i>	16	266		
<i>Aedes taeniorhynchus</i>	3	10		
<i>Aedes triseriatus</i>	18	57		
<i>Aedes trivittatus</i>	1	2		
<i>Aedes vexans</i>	28	374		
<i>Anopheles bradleyi</i>	47	487		
<i>Anopheles crucians</i>	2	122		
<i>Anopheles punctipennis</i>	14	87		
<i>Anopheles quadrimaculatus</i>	21	180		
<i>Coquillettidia perturbans</i>	54	897		
<i>Culex erraticus</i>	175	4479	2	0.45
<i>Culex pipiens</i>	429	3042		
<i>Culex restuans</i>	17	36		
<i>Culex salinarius</i>	60	699		
<i>Culex</i> spp.	253	5035		
<i>Culex territans</i>	2	2		
<i>Culiseta minnesotae</i>	2	2		
<i>Psorophora columbiae</i>	1	5		
<i>Uranotaenia sapphirina</i>	1	6		
State Total	1200	16244	2	0.12

Horses and Humans: Previously reported: one unvaccinated horse that was EEE positive from Monmouth County with symptom onset on 5 October. There are no positive human cases to date.

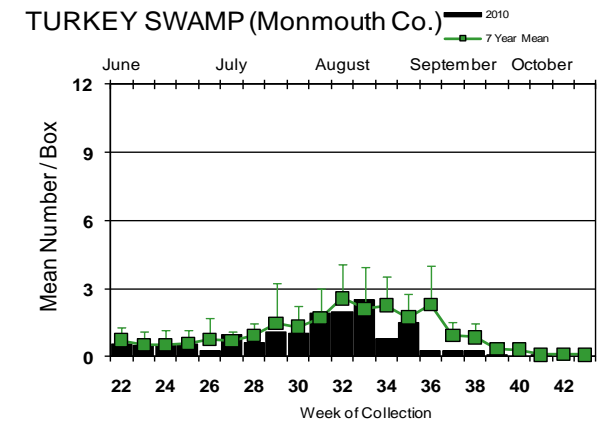
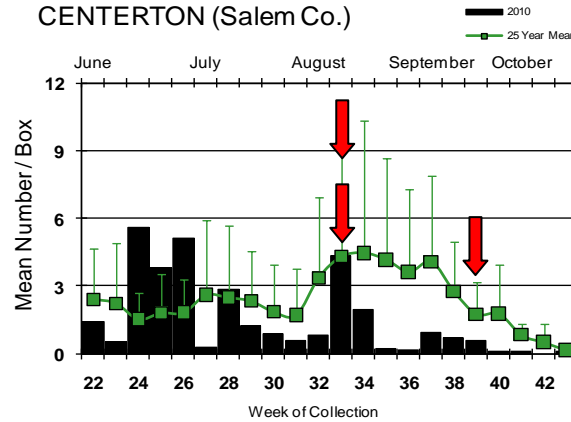
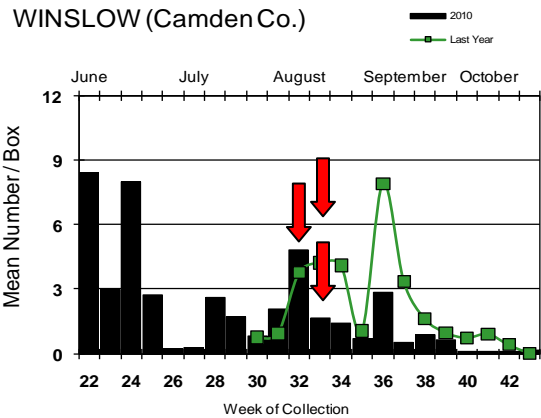
Horses and Vaccinations: The fate of unvaccinated equids reinforces the necessity of maintaining a vaccination schedule for arboviruses. For vaccination schedules recommended by the American Association of Equine Practices, see: http://www.aaep.org/vaccination_guidelines.htm

Culiseta melanura Population Graphs

Coastal

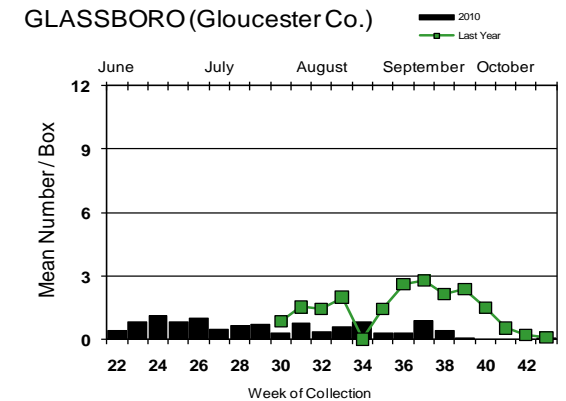


Inland



Culiseta melanura populations were not monitored at the resting box sites as populations appeared to have declined to zero.

↓ = Positive pool(s) detected.



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

- equine: 8(AL) 93(FL) 11(GA) 1(IL) 11(IN) 4(MA) 24(MS) 57(MI) 6(NC) 1(NJ) 1(NH) 10(NY) 4(OH) 1(SC) 1(TX) 1(VA) 1(WI) – note removal of NE horse case.
- mosquito pools: 4(CT) 2(GA) 6(FL) 3(IN) 65(MA) 1(NH) 21(NJ) 65(NY) 2(RI) 8(VA)
- sentinel: 2(AL) 159/34(FL chickens/wild) 1 turkey(ME) 6(NC) 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	5	324	14	2/3	142/147
Arkansas					6
California	401/408	1294	277	19	92/96
Colorado	9	47		7	78/81
Connecticut		220			8
Delaware		1	15		
DC		15			2
Florida	1Flavi		412	22	12
Georgia	4	93		2	11
Hawaii					
Idaho				3	1
Illinois	64	2290		1	50/56
Indiana	1	328		6	8
Iowa		7	14	1	8
Kansas					6
Kentucky	1	5		6	3
Louisiana		550	21	3	31/32
Maine		1			
Maryland		8		1	23
Mass.		121		1	7
Michigan	3	1		1	27/29
Minnesota	3	11			7
Mississippi		6		3	7
Missouri		55		1	3

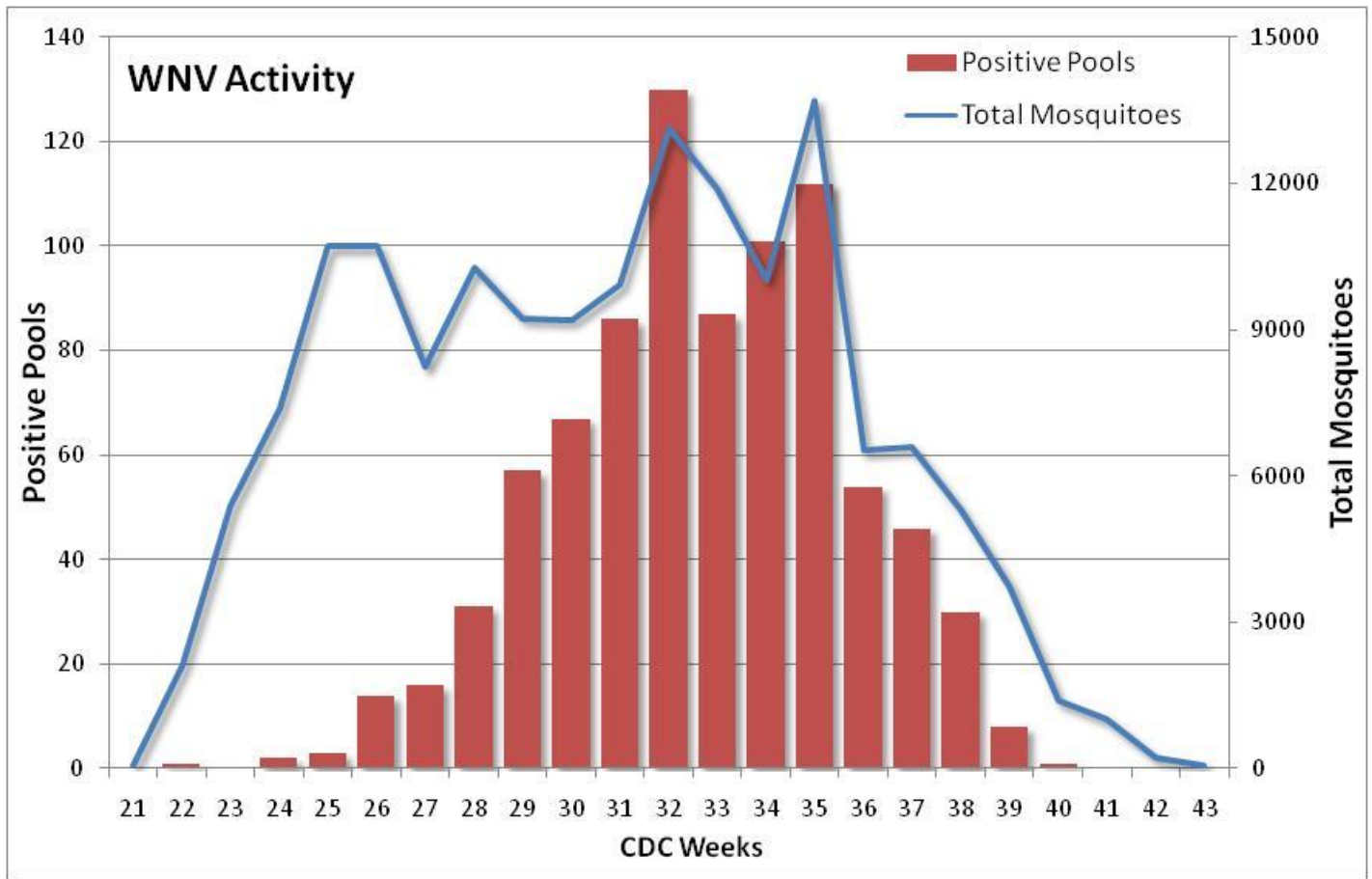
	Birds	Mosquito Pools	Sentinels	Horses	Humans
Montana		2			
Nebraska	9	111		0	39
Nevada	2	19		2	3
New Hampshire		1		0	1
New Jersey	129	846	0	2	29
New Mexico					21/24
New York	14	907		0	128
North Carolina			1	1	
North Dakota				3	8/9
Ohio		260		1	4
Oklahoma		3			
Oregon	0	4	0	0	0
Pennsylvania	20	1057		7	27/29
Rhode Island		2			
South Carolina		16			1
South Dakota		2/4			20
Tennessee	0	377/381		2	4
Texas	2	290		8	69/78
Utah		31	1	3	2
Vermont	1	9		0	0
Virginia		104	13		2
Washington	2	126		0	0
West Virginia	0	26		0	0
Wisconsin	4	3		0	1
Wyoming		16		1	6

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 8 Nov 2010

Species	Pools	Mosquitoes	Positives	MFIR
<i>Aedes albopictus</i>	704	3979	9	2.262
<i>Aedes canadensis canadensis</i>	29	485		
<i>Aedes cantator</i>	10	24		
<i>Aedes japonicus</i>	402	1807		
<i>Aedes sollicitans</i>	25	324		
<i>Aedes sticticus</i>	1	1		
<i>Aedes stimulans</i>	3	8		
<i>Aedes taeniorhynchus</i>	9	116		
<i>Aedes triseriatus</i>	179	388		
<i>Aedes trivittatus</i>	9	41		
<i>Aedes vexans</i>	151	1604		
<i>Anopheles barberi</i>	2	2		
<i>Anopheles bradleyi</i>	63	536		
<i>Anopheles crucians</i>	3	124		
<i>Anopheles punctipennis</i>	65	437		
<i>Anopheles quadrimaculatus</i>	128	1232		
<i>Anopheles walkeri</i>	5	29		
<i>Coquillettidia perturbans</i>	108	1655	1	0.604
<i>Culex erraticus</i>	190	4538		
<i>Culex pipiens</i>	1067	20170	173	8.577
<i>Culex restuans</i>	411	2005	6	2.993
<i>Culex salinarius</i>	85	1066	1	0.938
<i>Culex spp.</i>	3113	104116	641	6.157
<i>Culex territans</i>	3	4		
<i>Culiseta inornata</i>	1	1		
<i>Culiseta melanura</i>	670	12015	15	1.248
<i>Culiseta minnesotae</i>	2	2		
<i>Orthopodomyia signifera</i>	5	6		
<i>Psorophora ciliata</i>	1	1		
<i>Psorophora columbiae</i>	5	13		
<i>Psorophora cyanescens</i>	1	1		
<i>Psorophora ferox</i>	4	5		
<i>Uranotaenia sapphirina</i>	3	13		
State Total	7457	156748	846	5.397

Remarks: The number of positive WNV mosquito pools to date remains at 846. This year's activity was significantly greater than previous years in terms of positive pools. The number of positive humans is currently at the second highest recorded for New Jersey and may continue to grow as cases are investigated. The graph on the next page shows the trend of positive pools against the number of mosquitoes collected.



Humans, Horses and Wild Birds: To date in 2010, twenty-nine human cases of West Nile virus have been detected (five additional from last week) and include the following counties: Atlantic (1 case), Burlington (2), Camden (7), Cumberland (1), Essex (4), 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.

Positive bird data remains the same as last week, with no new submissions. One hundred and twenty-nine dead, wild birds out of 241 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), 2/8 Hawks (unknown species) and 12/73 unknown species. All three identified corvids show marked increases in mortality from 2009.

2010 Positive Mosquito pools to date / Total Mosquito Pools Submitted	This time last year
846/ 7457 (11.3%)	312 / 7655 (4.1%)
2010 Positive Birds to date / Total Birds Submitted	This time last year
129/ 241 (53.5%)	31/ 116 (26.7%)

WNV Results by County through 8 Nov 2010

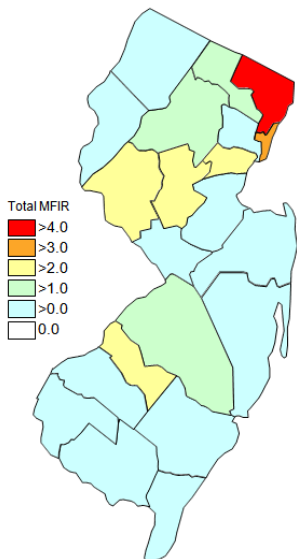
County	Species	Pools	Mosquitoes	Positives	MFIR
Atlantic		292	6726	60	8.921
	<i>Aedes albopictus</i>	36	312	1	3.205
	<i>Aedes canadensis canadensis</i>	3	56		
	<i>Aedes cantator</i>	3	14		
	<i>Aedes japonicus</i>	12	24		
	<i>Aedes sollicitans</i>	3	11		
	<i>Aedes taeniorhynchus</i>	1	24		
	<i>Aedes triseriatus</i>	4	8		
	<i>Aedes trivittatus</i>	3	26		
	<i>Aedes vexans</i>	30	448		
	<i>Anopheles bradleyi</i>	8	19		
	<i>Anopheles punctipennis</i>	7	110		
	<i>Anopheles quadrimaculatus</i>	5	9		
	<i>Coquillettidia perturbans</i>	10	37		
	<i>Culex erraticus</i>	8	28		
	<i>Culex</i> spp.	125	5125	57	11.122
	<i>Culex territans</i>	1	1		
	<i>Culiseta melanura</i>	32	473	2	4.228
	<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		342	9495	46	4.845
	<i>Aedes albopictus</i>	30	289		
	<i>Aedes canadensis canadensis</i>	5	111		
	<i>Aedes japonicus</i>	4	17		
	<i>Aedes sollicitans</i>	6	185		
	<i>Aedes taeniorhynchus</i>	2	9		
	<i>Aedes triseriatus</i>	1	7		
	<i>Aedes vexans</i>	25	367		
	<i>Anopheles bradleyi</i>	8	190		
	<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>	18	637		
	<i>Culex pipiens</i>	8	107	1	9.346
	<i>Culex restuans</i>	1	1		
	<i>Culex salinarius</i>	9	51		
	<i>Culex</i> spp.	114	4181	42	10.045
	<i>Culiseta melanura</i>	95	2833	3	1.059
	<i>Culiseta minnesotae</i>	1	1		
	<i>Psorophora columbiae</i>	1	5		
	<i>Uranotaenia sapphirina</i>	1	6		
Camden		262	5992	76	12.684
	<i>Aedes albopictus</i>	45	152	3	19.737
	<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 spp.</i>	139	4625	71	15.351
<i>Culex territans</i>	1	2		
<i>Culiseta melanura</i>	33	1068	2	1.873
<i>Orthopodomyia signifera</i>	2	3		
<i>Psorophora columbiae</i>	1	1		
<i>Uranotaenia sapphirina</i>	2	7		
Cape May	1955	19393	11	0.567
<i>Aedes albopictus</i>	132	234		
<i>Aedes canadensis canadensis</i>	3	6		
<i>Aedes cantator</i>	3	3		
<i>Aedes japonicus</i>	51	84		
<i>Aedes sollicitans</i>	10	81		
<i>Aedes taeniorhynchus</i>	6	83		
<i>Aedes triseriatus</i>	44	71		
<i>Aedes vexans</i>	10	201		
<i>Anopheles bradleyi</i>	36	312		
<i>Anopheles punctipennis</i>	6	14		
<i>Anopheles quadrimaculatus</i>	62	819		
<i>Coquillettidia perturbans</i>	16	157		
<i>Culex erraticus</i>	140	3764		
<i>Culex pipiens</i>	614	6496	6	0.924
<i>Culex restuans</i>	343	1476	2	1.355
<i>Culex salinarius</i>	55	738	1	1.355
<i>Culex spp.</i>	196	1445	1	0.692
<i>Culiseta melanura</i>	228	3409	1	0.293
Cumberland	81	720	1	1.389
<i>Aedes albopictus</i>	13	58		
<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>	9	61		
<i>Culex pipiens</i>	10	45		
<i>Culex restuans</i>	6	15		
<i>Culex territans</i>	1	1		
<i>Culiseta melanura</i>	24	509	1	1.965
Essex	337	3644	25	6.861
<i>Aedes albopictus</i>	58	195		
<i>Aedes japonicus</i>	41	301		
<i>Aedes sollicitans</i>	1	18		
<i>Aedes stimulans</i>	1	3		
<i>Aedes triseriatus</i>	21	42		
<i>Aedes vexans</i>	26	155		
<i>Culex spp.</i>	189	2930	25	8.532
Gloucester	462	11421	117	10.244

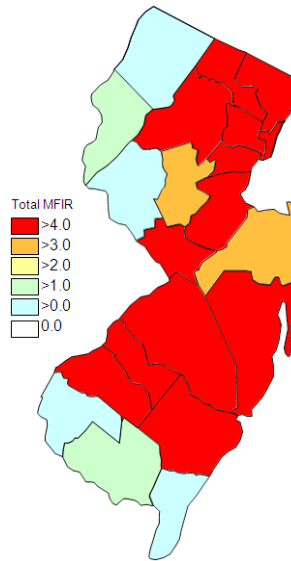
<i>Aedes albopictus</i>	36	324	1	3.086
<i>Aedes japonicus</i>	6	27		
<i>Aedes vexans</i>	4	70		
<i>Anopheles barberi</i>	1	1		
<i>Anopheles punctipennis</i>	6	64		
<i>Anopheles quadrimaculatus</i>	4	46		
<i>Coquillettidia perturbans</i>	5	15	1	66.667
<i>Culex pipiens</i>	291	9025	112	12.410
<i>Culiseta melanura</i>	109	1849	3	1.622
Hudson	232	11403	94	8.243
<i>Aedes albopictus</i>	1	25		
<i>Culex</i> spp.	231	11378	94	8.262
Hunterdon	300	12270	11	0.896
<i>Aedes albopictus</i>	2	61		
<i>Culex</i> spp.	298	12209	11	0.901
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	266	10058	53	5.269
<i>Aedes albopictus</i>	11	74		
<i>Aedes japonicus</i>	3	21		
<i>Aedes triseriatus</i>	1	6		
<i>Culex</i> spp.	251	9957	53	5.323
Monmouth	373	2668	9	3.373
<i>Aedes albopictus</i>	70	428		
<i>Aedes canadensis canadensis</i>	10	89		
<i>Aedes cantator</i>	3	6		
<i>Aedes japonicus</i>	43	112		
<i>Aedes sollicitans</i>	4	27		
<i>Aedes triseriatus</i>	14	22		
<i>Aedes vexans</i>	7	14		
<i>Anopheles barberi</i>	1	1		
<i>Anopheles crucians</i>	1	2		
<i>Anopheles punctipennis</i>	6	10		
<i>Anopheles quadrimaculatus</i>	10	15		
<i>Coquillettidia perturbans</i>	6	10		
<i>Culex erraticus</i>	8	28		
<i>Culex pipiens</i>	1	1		
<i>Culex restuans</i>	3	5		
<i>Culex salinarius</i>	2	2		
<i>Culex</i> spp.	111	1123	8	7.124
<i>Culiseta melanura</i>	70	770	1	1.299
<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	331	4099	18	4.391
<i>Aedes albopictus</i>	86	1004	1	0.996
<i>Aedes canadensis canadensis</i>	7	222		
<i>Aedes japonicus</i>	34	98		
<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>	7	20		
<i>Anopheles bradleyi</i>	4	6		
<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>	6	7	1	142.857
<i>Culex salinarius</i>	5	7		
<i>Culex</i> spp.	101	2346	15	6.394
<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	310	2708	1	0.369
<i>Aedes albopictus</i>	58	235		
<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		

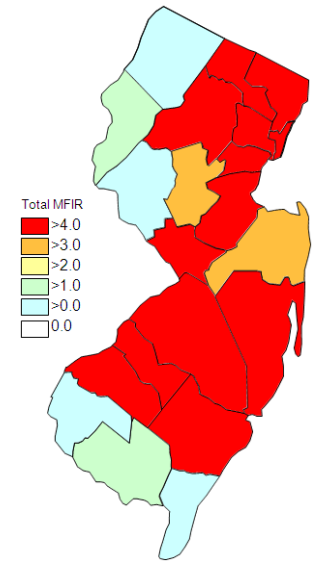
<i>Anopheles walkeri</i>	4	5		
<i>Coquillettidia perturbans</i>	11	22		
<i>Culex erraticus</i>	3	10		
<i>Culex pipiens</i>	12	26		
<i>Culex restuans</i>	7	9		
<i>Culex</i> spp.	84	1188		
<i>Culiseta melanura</i>	27	840	1	1.190
<i>Psorophora columbiae</i>	2	3		
Somerset	266	3060	10	3.268
<i>Aedes albopictus</i>	16	54		
<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.	197	2754	10	3.631
Sussex	403	9671	6	0.620
<i>Aedes japonicus</i>	51	399		
<i>Aedes stimulans</i>	2	5		
<i>Aedes triseriatus</i>	16	48		
<i>Coquillettidia perturbans</i>	17	321		
<i>Culex pipiens</i>	24	119		
<i>Culex restuans</i>	8	103		
<i>Culex salinarius</i>	2	4		
<i>Culex</i> spp.	264	8639	6	0.695
<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	216	6817	7	1.027
<i>Aedes japonicus</i>	3	6		
<i>Aedes triseriatus</i>	5	18		
<i>Aedes trivittatus</i>	2	11		
<i>Aedes vexans</i>	7	48		
<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.	180	6114	7	1.145
<i>Psorophora ciliata</i>	1	1		
<i>Psorophora ferox</i>	1	1		
Grand Total	7457	156748	846	5.397



Cumulative WNV activity in 2009.



WNV activity to 8 Nov, 2010.



WNV activity last week, 2010.

Saint Louis Encephalitis (SLE) through 8 Nov 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		316	9238		
	<i>Aedes albopictus</i>	30	289		
	<i>Aedes canadensis canadensis</i>	4	109		
	<i>Aedes japonicus</i>	4	17		
	<i>Aedes sollicitans</i>	6	185		
	<i>Aedes taeniorhynchus</i>	2	9		
	<i>Aedes triseriatus</i>	1	7		
	<i>Aedes vexans</i>	25	367		
	<i>Anopheles bradleyi</i>	8	190		
	<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>	17	635		
	<i>Culex pipiens</i>	8	107		
	<i>Culex restuans</i>	1	1		
	<i>Culex salinarius</i>	9	51		
	<i>Culex</i> spp.	113	4180		
	<i>Culiseta melanura</i>	70	2582		
	<i>Culiseta minnesotae</i>	1	1		
	<i>Psorophora columbiae</i>	1	5		
	<i>Uranotaenia sapphirina</i>	1	6		
Camden		216	4771		
	<i>Aedes albopictus</i>	41	125		

	<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.	133	4529		
	<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		298	3557		
	<i>Aedes albopictus</i>	47	171		
	<i>Aedes japonicus</i>	37	291		
	<i>Aedes sollicitans</i>	1	18		
	<i>Aedes triseriatus</i>	6	13		
	<i>Aedes vexans</i>	18	134		
	<i>Culex</i> spp.	189	2930		
Hudson		190	9703		
	<i>Aedes albopictus</i>	1	25		
	<i>Culex</i> spp.	189	9678		
Salem		1	7		
	<i>Culex</i> spp.	1	7		
Sussex		16	48		
	<i>Aedes triseriatus</i>	16	48		
Grand Total		1037	27343		

La Crosse Encephalitis (LAC) through 8 Nov 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		