

VECTOR SURVEILLANCE IN NEW JERSEY
EEE, WNV, SLE and LAC
CDC WEEK 42: October 17 to October 23, 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	0.98	0.04	249 [†]	20	0	0
Corbin City (Atlantic County)	Coastal	0.09	0.00	369	20	0	0
Dennisville (Cape May County)	Coastal	2.04	0.00	725	28	2	2.76
Winslow (Camden County)	Inland	0.41	0.10	2171	52	3	1.38
Centerton (Salem County)	Inland	0.51	0.00	1612	42	3	1.86
Turkey Swamp (Monmouth County)	Inland	0.10	0.00	763 [†]	66	0	0
Glassboro (Gloucester County)	Inland	0.20	0.00	513	19	0	0

*Including trial run last week in May. † this week's 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	2582	4	1.55
Camden	Gravid	3		
Cape May	CO ₂ , Gravid, RB	2127	2	0.94
Cumberland	Gravid, RB	509	2	3.93
Gloucester	RB	1516	3	1.98
Ocean	CO ₂ , Gravid, RB	232		
Salem	CO ₂	1		
Sussex	CO ₂ , NJLT	32		
TOTAL		7019	11	1.57

248 pools from 6402 mosquitoes out of the resting box sites have been tested. An additional 7019 *Cs. melanura* forming 417 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:

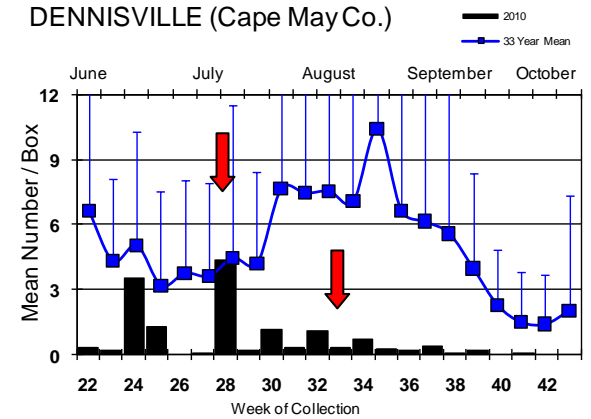
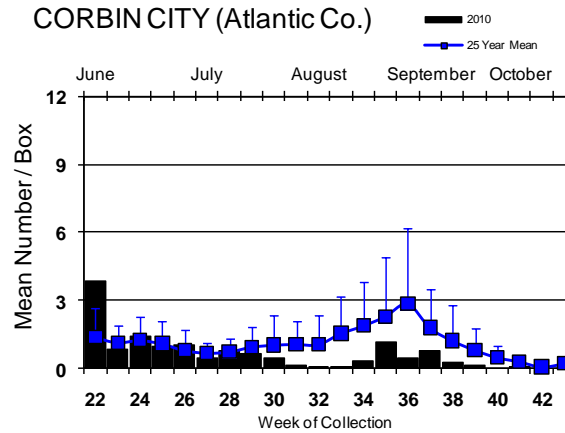
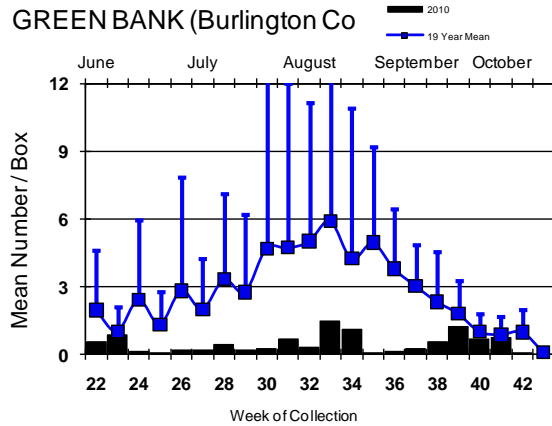
Species other than <i>Cs. melanura</i>	Pools	Mosquitoes	Positives	MFIR
<i>Aedes albopictus</i>	39	313		
<i>Aedes canadensis canadensis</i>	8	117		
<i>Aedes cantator</i>	3	3		
<i>Aedes japonicus</i>	6	23		
<i>Aedes sollicitans</i>	16	266		
<i>Aedes taeniorhynchus</i>	3	10		
<i>Aedes triseriatus</i>	18	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>	13	86		
<i>Anopheles quadrimaculatus</i>	19	178		
<i>Coquillettidia perturbans</i>	54	897		
<i>Culex erraticus</i>	172	4467	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	1194	16229	2	0.12

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

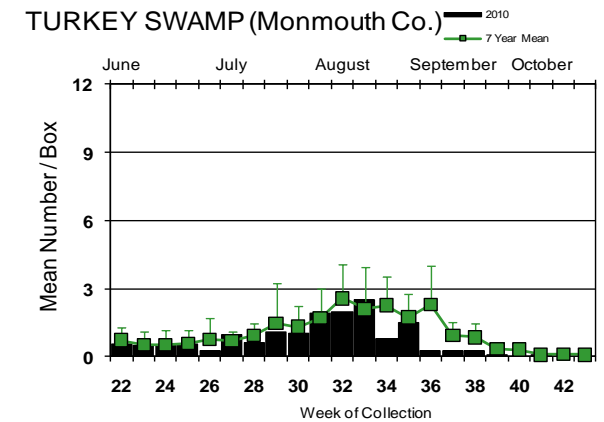
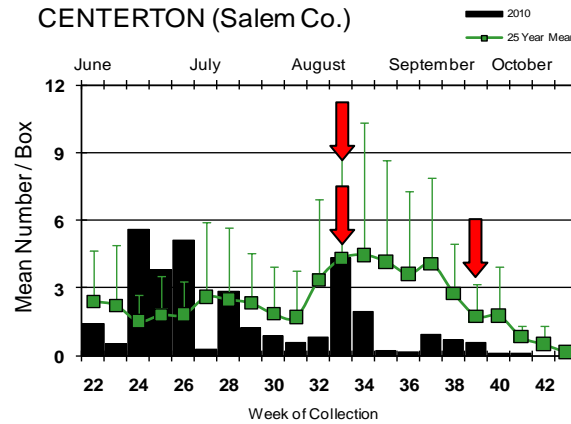
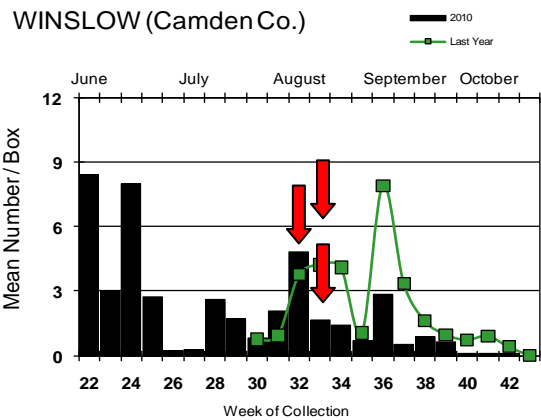
Horses and Vaccinations: The fate of unvaccinated equids reinforces the necessity of maintaining a vaccination schedule for arboviruses. For vaccination schedules recommended by the American Association of Equine Practices, see: http://www.aaep.org/vaccination_guidelines.htm

Culiseta melanura Population Graphs

Coastal

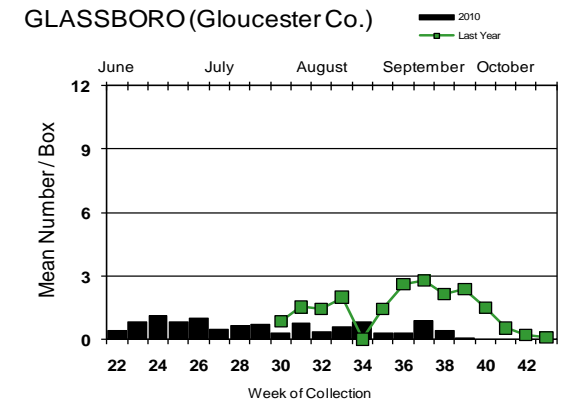


Inland



Culiseta melanura populations dropped to zero at all traditional resting box monitoring sites, with the exception of Green Bank and Winslow.

↓ = Positive pool(s) detected.



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

- equine: 8(AL) 92(FL) 9(GA) 11(IN) 4(MA) 24(MS) 57(MI) 6(NC) 1(NE) 1(NJ) 1(NH) 8(NY) 4(OH) 1(SC) 1(TX) 1(VA) 1(WI)
- 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) 157/34(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	5	317/324	3/14	2	126/140
Arkansas					6
California	385/401	1267/1284	253/263	18	68/82
Colorado	9	47		7	76/77
Connecticut		219/220			8
Delaware		1	15		
DC					
Florida	1Flavi		325/358	17/20	8/10
Georgia	4	93		2	11
Hawaii					
Idaho				3	1
Illinois	63/64	2206/2226		1	44/47
Indiana	1	322/325		6	8
Iowa		7	14	1	7
Kansas					6
Kentucky	1	5		6	2/3
Louisiana		516/550	18/21	3	27/29
Maine		1			
Maryland		8		1	10/12
Mass.		121		1	6/7
Michigan	3	1		1	23/27
Minnesota	3	9/10			5
Mississippi		6		2/3	6/7
Missouri		54/55		1	3

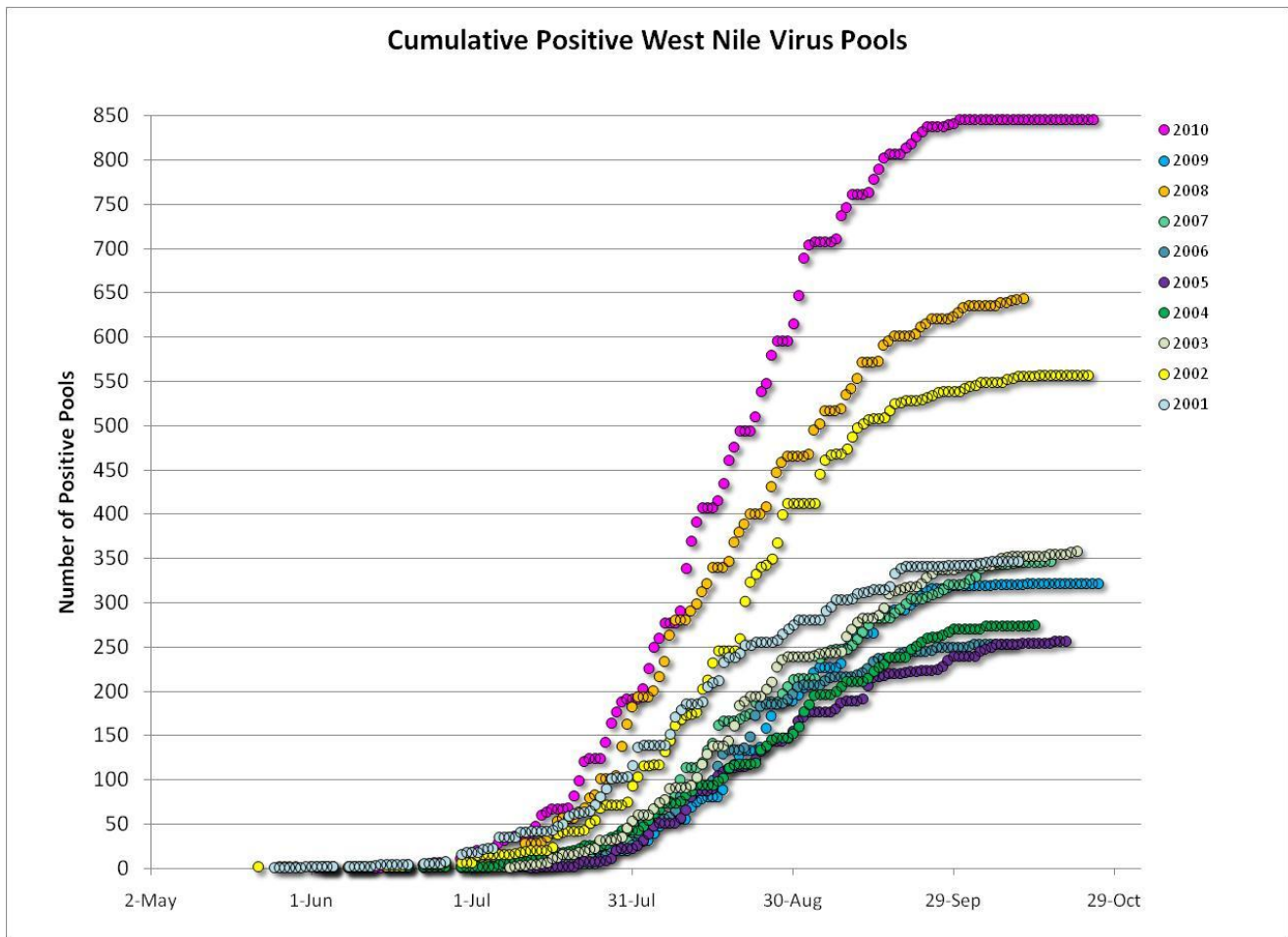
	Birds	Mosquito Pools	Sentinels	Horses	Humans
Montana		2			
Nebraska	9	111		0	39
Nevada	1/2	19		2	3
New Hampshire		1		0	1
New Jersey	129	846	0	2	24/29
New Mexico					17
New York	13/14	900/904		0	125/127
North Carolina			1	1	
North Dakota				3	8
Ohio		228/260		0	2
Oklahoma		3			
Oregon	0	3/4	0	0	0
Pennsylvania	20	1057		7	21/26
Rhode Island		2			
South Carolina		12/15			
South Dakota		1			20
Tennessee	0	359/374		2	2/4
Texas	2	120		6	60/69
Utah		31	1	3	1/2
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 25 Oct 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>	398	1782		
<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>	150	1603		
<i>Anopheles barberi</i>	2	2		
<i>Anopheles bradleyi</i>	63	536		
<i>Anopheles crucians</i>	3	124		
<i>Anopheles punctipennis</i>	64	436		
<i>Anopheles quadrimaculatus</i>	125	1225		
<i>Anopheles walkeri</i>	5	29		
<i>Coquillettidia perturbans</i>	108	1655	1	0.604
<i>Culex erraticus</i>	187	4526		
<i>Culex pipiens</i>	1065	20164	173	8.580
<i>Culex restuans</i>	411	2005	6	2.993
<i>Culex salinarius</i>	85	1066	1	0.938
<i>Culex spp.</i>	3068	103804	641	6.175
<i>Culex territans</i>	3	4		
<i>Culiseta inornata</i>	1	1		
<i>Culiseta melanura</i>	664	11997	15	1.250
<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	7392	156366	846	5.410

Remarks: The number of positive WNV mosquito pools to date remains at 846. This year 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, the trend for new positive pools has leveled out.



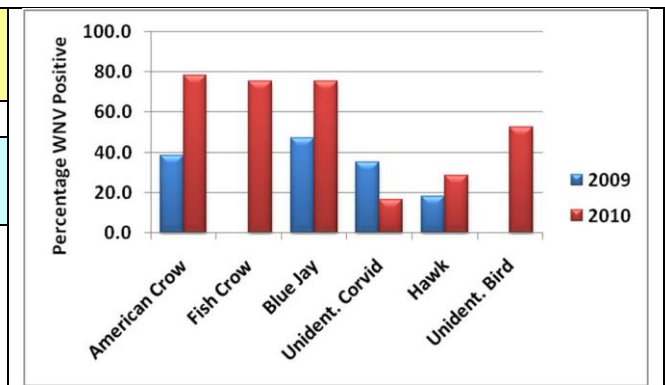
Humans, Horses and Wild Birds: To date in 2010, twenty-nine human cases of West Nile virus have been detected (five additional from last week) and include the following counties: Atlantic (1 case), Burlington (2), Camden (7), Cumberland (1), Essex (4), Hudson (2), Mercer (3), Monmouth (2), Ocean (2), 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.

No new positive birds detected this week. 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. In 2009, although Fish Crows were sent in about the same number as American Crows, they did not show positive for WNV. This year, Fish Crows were again positive (graph below).

2010 Positive Mosquito pools to date / Total Mosquito Pools Submitted	This time last year
846/ 7392 (11.4%)	312 / 7620 (4.1%)
2010 Positive Birds to date / Total Birds Submitted	This time last year
129/ 242 (53.3%)	31/ 116 (26.7%)



WNV Results by County through 25 Oct 2010

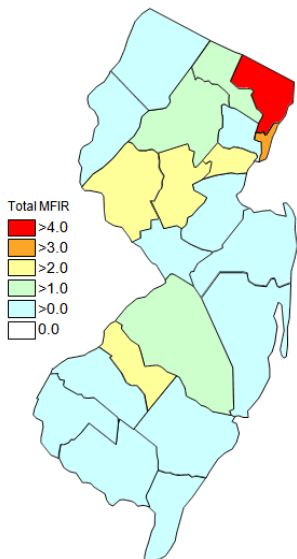
County	Species	Pools	Mosquitoes	Positives	MFIR
Atlantic		292	6726	60	8.921
	<i>Aedes albopictus</i>	36	312	1	3.205
	<i>Aedes canadensis canadensis</i>	3	56		
	<i>Aedes cantator</i>	3	14		
	<i>Aedes japonicus</i>	12	24		
	<i>Aedes sollicitans</i>	3	11		
	<i>Aedes taeniorhynchus</i>	1	24		
	<i>Aedes triseriatus</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		339	9491	46	4.847
	<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>	17	635		
	<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>	90	2831	3	1.060
	<i>Culiseta minnesotae</i>	1	1		
	<i>Psorophora columbiae</i>	1	5		
	<i>Uranotaenia sapphirina</i>	1	6		
Camden		261	5984	76	12.701
	<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>	32	1060	2	1.887
<i>Orthopodomyia signifera</i>	2	3		
<i>Psorophora columbiae</i>	1	1		
<i>Uranotaenia sapphirina</i>	2	7		
Cape May	1951	19378	11	0.568
<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>	61	814		
<i>Coquillettidia perturbans</i>	16	157		
<i>Culex erraticus</i>	139	3757		
<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>	226	3406	1	0.294
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	333	3640	25	6.868
<i>Aedes albopictus</i>	58	195		
<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>	26	155		
<i>Culex spp.</i>	186	2927	25	8.541
Gloucester	462	11421	117	10.244

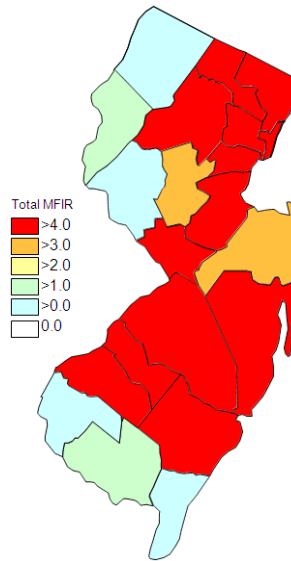
<i>Aedes albopictus</i>	36	324	1	3.086
<i>Aedes japonicus</i>	6	27		
<i>Aedes vexans</i>	4	70		
<i>Anopheles barberi</i>	1	1		
<i>Anopheles punctipennis</i>	6	64		
<i>Anopheles quadrimaculatus</i>	4	46		
<i>Coquillettidia perturbans</i>	5	15	1	66.667
<i>Culex pipiens</i>	291	9025	112	12.410
<i>Culiseta 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	285	12188	11	0.903
<i>Aedes albopictus</i>	2	61		
<i>Culex</i> spp.	283	12127	11	0.907
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	362	2647	9	3.400
<i>Aedes albopictus</i>	70	428		
<i>Aedes canadensis canadensis</i>	10	89		
<i>Aedes cantator</i>	3	6		
<i>Aedes japonicus</i>	42	109		
<i>Aedes sollicitans</i>	4	27		
<i>Aedes triseriatus</i>	14	22		
<i>Aedes vexans</i>	6	13		
<i>Anopheles barberi</i>	1	1		
<i>Anopheles crucians</i>	1	2		
<i>Anopheles punctipennis</i>	5	9		
<i>Anopheles quadrimaculatus</i>	8	13		
<i>Coquillettidia perturbans</i>	6	10		
<i>Culex erraticus</i>	7	25		
<i>Culex pipiens</i>	1	1		
<i>Culex restuans</i>	3	5		
<i>Culex salinarius</i>	2	2		
<i>Culex</i> spp.	106	1112	8	7.194
<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	3313	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	309	2703	1	0.370
<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		

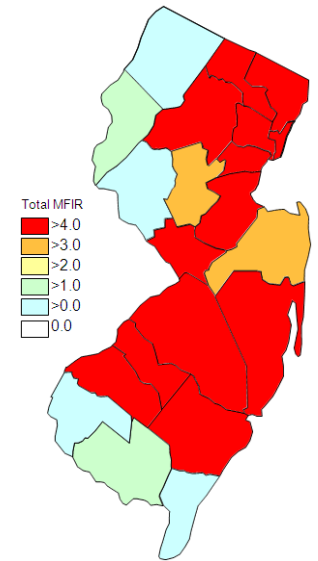
	<i>Anopheles walkeri</i>	4	5		
	<i>Coquillettidia perturbans</i>	11	22		
	<i>Culex erraticus</i>	3	10		
	<i>Culex pipiens</i>	12	26		
	<i>Culex restuans</i>	7	9		
	<i>Culex spp.</i>	84	1188		
	<i>Culiseta melanura</i>	26	835	1	1.198
	<i>Psorophora columbiae</i>	2	3		
Somerset		266	3060	10	3.268
	<i>Aedes 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 spp.</i>	197	2754	10	3.631
Sussex		395	9619	6	0.624
	<i>Aedes japonicus</i>	49	378		
	<i>Aedes stimulans</i>	2	5		
	<i>Aedes triseriatus</i>	16	48		
	<i>Coquillettidia perturbans</i>	17	321		
	<i>Culex pipiens</i>	22	113		
	<i>Culex restuans</i>	8	103		
	<i>Culex salinarius</i>	2	4		
	<i>Culex spp.</i>	260	8614	6	0.697
	<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 spp.</i>	138	5629	42	7.461
Warren		213	6808	7	1.028
	<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 spp.</i>	177	6105	7	1.147
	<i>Psorophora ciliata</i>	1	1		
	<i>Psorophora ferox</i>	1	1		
Grand Total		7392	156366	846	5.410



Cumulative WNV activity in 2009.



WNV activity to 25 Oct, 2010.



WNV activity last week, 2010.

Saint Louis Encephalitis (SLE) through 25 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		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		306	3576		
	<i>Aedes albopictus</i>	52	182		
	<i>Aedes japonicus</i>	36	290		
	<i>Aedes sollicitans</i>	1	18		
	<i>Aedes triseriatus</i>	12	24		
	<i>Aedes vexans</i>	19	135		
	<i>Culex</i> spp.	186	2927		
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		1045	27343		

La Crosse Encephalitis (LAC) through 25 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		