

VECTOR SURVEILLANCE IN NEW JERSEY
EEE, WNV, SLE and LAC
CDC WEEK 41: October 10 to October 16, 2010
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Prepared by Lisa M. Reed, Scott Crans and
Mark Robson at the Center for Vector Biology,
Rutgers University.
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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	0.87	0.74	239 ^{††}	19	0	0
Corbin City (Atlantic County)	Coastal	0.32	0.08	369	21	0	0
Dennisville (Cape May County)	Coastal	1.41	0.06	725	28	2	2.76
Winslow (Camden County)	Inland	0.92	0.12	2166 [†]	52	3	1.39
Centerton (Salem County)	Inland	0.83	0.10	1612	42	3	1.86
Turkey Swamp (Monmouth County)	Inland	0.09	0.02	763 [†]	66	0	0
Glassboro (Gloucester County)	Inland	1.47	0.00	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	2582	4	1.55
Camden	Gravid	3		
Cape May	CO ₂ , Gravid, RB	2123	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		7015	11	1.57

245 pools from 6386 mosquitoes out of the resting box sites have been tested. An additional 7015 *Cs. melanura* forming 415 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:

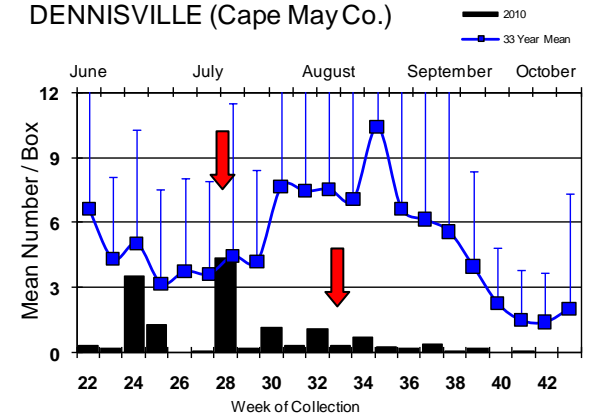
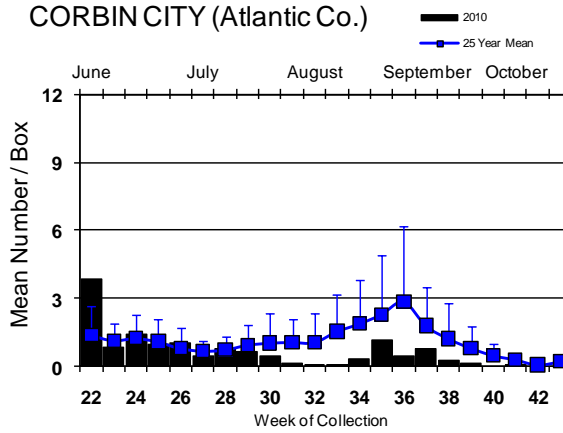
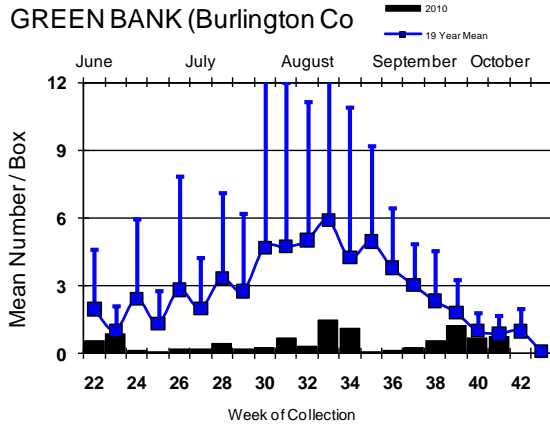
Species other than <i>Cs. melanura</i>	Pools	Mosquitoes	Positives	MFIR
<i>Aedes albopictus</i>	39	313		
<i>Aedes canadensis canadensis</i>	8	117		
<i>Aedes cantator</i>	3	3		
<i>Aedes japonicus</i>	6	23		
<i>Aedes sollicitans</i>	15	265		
<i>Aedes taeniorhynchus</i>	3	10		
<i>Aedes triseriatus</i>	18	57		
<i>Aedes trivittatus</i>	1	2		
<i>Aedes vexans</i>	28	374		
<i>Anopheles bradleyi</i>	44	481		
<i>Anopheles crucians</i>	2	122		
<i>Anopheles punctipennis</i>	12	85		
<i>Anopheles quadrimaculatus</i>	18	177		
<i>Coquillettidia perturbans</i>	54	897		
<i>Culex erraticus</i>	167	4459	2	0.45
<i>Culex pipiens</i>	419	3013		
<i>Culex restuans</i>	15	32		
<i>Culex salinarius</i>	59	698		
<i>Culex</i> spp.	250	5029		
<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	1165	16172	2	0.12

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

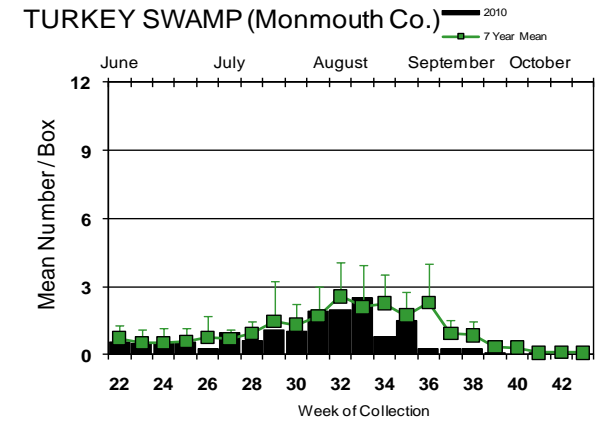
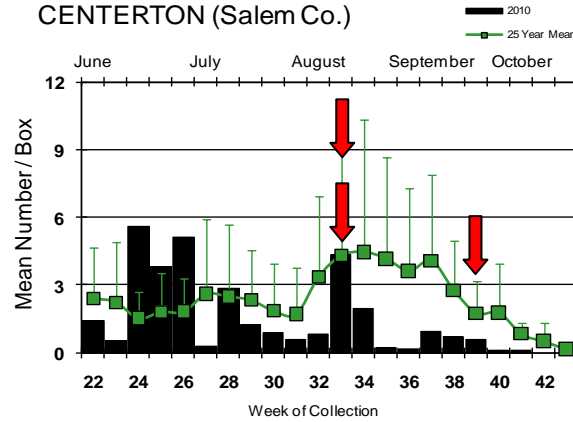
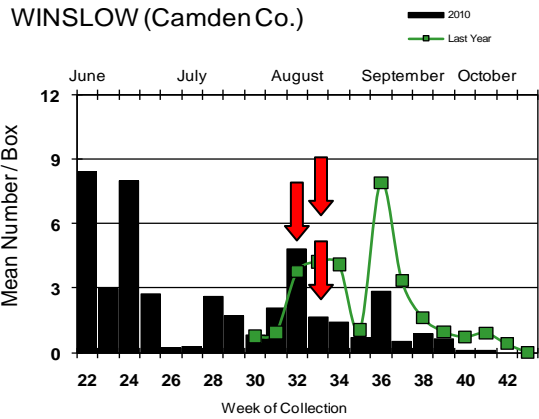
Horses and Vaccinations: The fate of unvaccinated equids reinforces the necessity of maintaining a vaccination schedule for arboviruses. For vaccination schedules recommended by the American Association of Equine Practices, see: http://www.aaep.org/vaccination_guidelines.htm

Culiseta melanura Population Graphs

Coastal

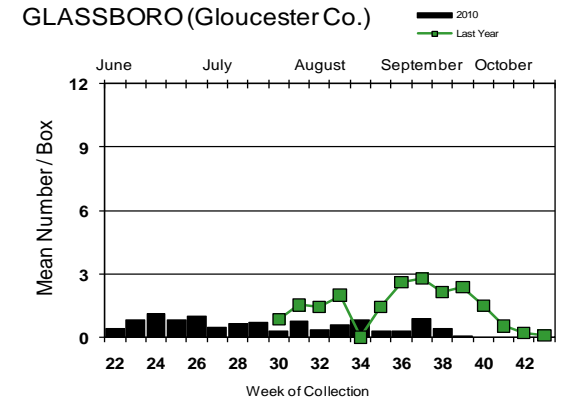


Inland



Green Bank still showed higher populations in *Cs. melanura* atypical for the site, in contrast to the other traditional monitoring sites. Now, populations from there are near historical values. Both Dennisville and Corbin City increased from their zero values of last week, but continue to show very low numbers. Light trap data for this species are also showing a seasonal decline.

↓ = Positive pool(s) detected.



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

- equine: 8(AL) 91(FL) 9(GA) 11(IN) 4(MA) 24(MS) 56(MI) 4(NC) 1(NE) 1(NH) 8(NY) 4(OH) 1(SC) 1(TX) 1(VA) 1(WI)
- mosquito: 3(CT) 2(GA) 6(FL) 3(IN) 65(MA) 1(NH) 21(NJ) 65(NY) 2(RI) 8(VA)
- sentinel: 2(AL) 156/34(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	3	2	126
Arkansas					5/6
California	385/30	1244/1267	241/253	18	66/68
Colorado	9	47		7	68/76
Connecticut		217/219			8
Delaware		1	13/15		
DC					
Florida	1Flavi		247/325	16/17	7/8
Georgia	3/4	85/93		1/2	11
Hawaii					
Idaho				1/3	1
Illinois	63	2187/2206		1	34/44
Indiana	1	318/322		6	8
Iowa		7	12/14	1	6/7
Kansas					6
Kentucky	1	5		5/6	2/3
Louisiana		516/550	18/21	3	27/29
Maine		1			
Maryland		8		1	10/12
Mass.		121		1	5/6
Michigan	3	1		1	21/23
Minnesota	3	9/10			5
Mississippi		5/6		2	6
Missouri		54		1	3

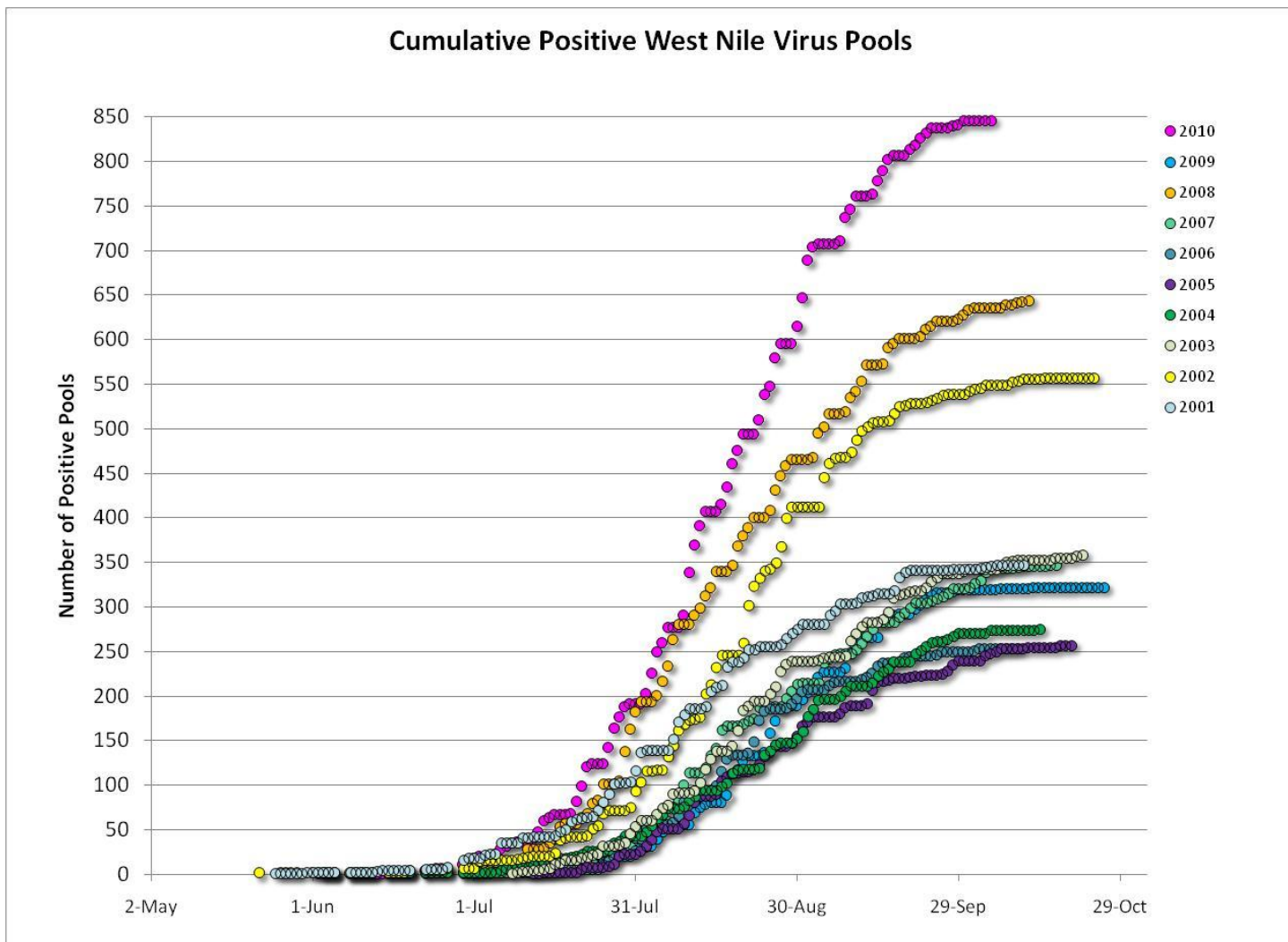
	Birds	Mosquito Pools	Sentinels	Horses	Humans
Montana		2			
Nebraska	9	111		0	38/39
Nevada	1	19		2	3
New Hampshire		1		0	1
New Jersey	128/129	845/846	0	2	24
New Mexico					17
New York	13	895/900		0	115/125
North Carolina			1	1	
North Dakota				3	8
Ohio		228		0	2
Oklahoma		3			
Oregon	0	3	0	0	0
Pennsylvania	20	1053/1057		7	18/21
Rhode Island		2			
South Carolina		12			
South Dakota		1			20
Tennessee	0	335/359		2	1/2
Texas	1/2	120		6	45/60
Utah		29/31	1	3	1
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	5/6

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 18 Oct 2010

Species	Pools	Mosquitoes	Positives	MFIR
<i>Aedes albopictus</i>	695	3966	9	2.269
<i>Aedes canadensis canadensis</i>	29	485		
<i>Aedes cantator</i>	10	24		
<i>Aedes japonicus</i>	392	1753		
<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>	178	387		
<i>Aedes trivittatus</i>	9	41		
<i>Aedes vexans</i>	144	1571		
<i>Anopheles barberi</i>	2	2		
<i>Anopheles bradleyi</i>	59	529		
<i>Anopheles crucians</i>	3	124		
<i>Anopheles punctipennis</i>	62	434		
<i>Anopheles quadrimaculatus</i>	122	1217		
<i>Anopheles walkeri</i>	5	29		
<i>Coquillettidia perturbans</i>	108	1655	1	0.604
<i>Culex erraticus</i>	181	4512		
<i>Culex pipiens</i>	1047	20069	173	8.620
<i>Culex restuans</i>	382	1897	6	3.163
<i>Culex salinarius</i>	84	1065	1	0.939
<i>Culex spp.</i>	3023	103490	641	6.194
<i>Culex territans</i>	3	4		
<i>Culiseta inornata</i>	1	1		
<i>Culiseta melanura</i>	659	11977	15	1.252
<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	7256	155721	846	5.433

Remarks: The number of positive WNV mosquito pools to date is 846 with the addition of one positive *Culex* Mix pool. 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 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 239 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
846/ 7256 (11.7%)	310/ 7534 (4.1%)
2010 Positive Birds to date / Total Birds Submitted	This time last year
129/ 239 (54.0%)	31/ 116 (26.7%)

WNV Results by County through 18 Oct 2010

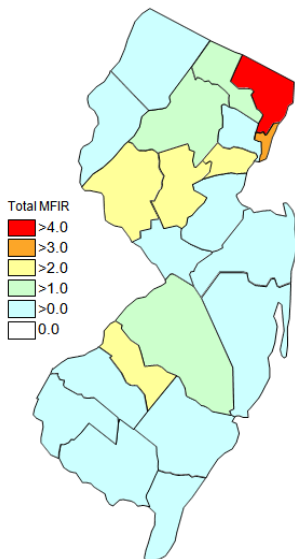
County	Species	Pools	Mosquitoes	Positives	MFIR
Atlantic		287	6684	60	8.977
	<i>Aedes albopictus</i>	36	312	1	3.205
	<i>Aedes canadensis canadensis</i>	3	56		
	<i>Aedes cantator</i>	3	14		
	<i>Aedes japonicus</i>	11	23		
	<i>Aedes sollicitans</i>	3	11		
	<i>Aedes taeniorhynchus</i>	1	24		
	<i>Aedes triseriatus</i>	4	8		
	<i>Aedes trivittatus</i>	3	26		
	<i>Aedes vexans</i>	29	434		
	<i>Anopheles bradleyi</i>	7	18		
	<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.	123	5099	57	11.179
	<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		337	9480	46	4.852
	<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.	113	4180	42	10.048
	<i>Culiseta melanura</i>	89	2821	3	1.063
	<i>Culiseta minnesotae</i>	1	1		
	<i>Psorophora columbiae</i>	1	5		
	<i>Uranotaenia sapphirina</i>	1	6		
Camden		260	5979	76	12.711
	<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>	31	1055	2	1.896
<i>Othopodomyia signifera</i>	2	3		
<i>Uranotaenia sapphirina</i>	1	1		
Cape May	1882	19158	11	0.574
<i>Aedes albopictus</i>	125	223		
<i>Aedes canadensis canadensis</i>	3	6		
<i>Aedes cantator</i>	3	3		
<i>Aedes japonicus</i>	50	82		
<i>Aedes sollicitans</i>	9	80		
<i>Aedes taeniorhynchus</i>	6	83		
<i>Aedes triseriatus</i>	43	70		
<i>Aedes vexans</i>	10	201		
<i>Anopheles bradleyi</i>	33	306		
<i>Anopheles punctipennis</i>	5	13		
<i>Anopheles quadrimaculatus</i>	59	807		
<i>Coquillettidia perturbans</i>	16	157		
<i>Culex erraticus</i>	133	3743		
<i>Culex pipiens</i>	600	6437	6	0.932
<i>Culex restuans</i>	316	1372	2	1.458
<i>Culex salinarius</i>	54	737	1	1.357
<i>Culex spp.</i>	193	1436	1	0.696
<i>Culiseta melanura</i>	224	3402	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	323	3612	25	6.921
<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>	23	139		
<i>Culex spp.</i>	179	2915	25	8.576
Gloucester	462	11421	117	10.244
<i>Aedes albopictus</i>	36	324	1	3.086

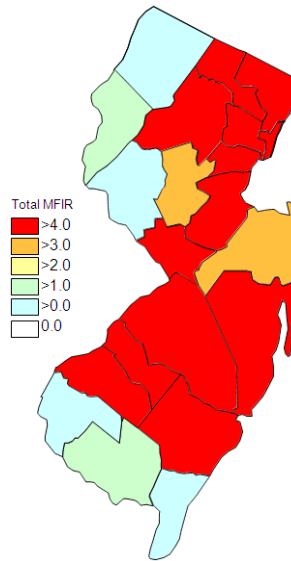
<i>Aedes japonicus</i>	6	27		
<i>Aedes vexans</i>	4	70		
<i>Anopheles barberi</i>	1	1		
<i>Anopheles punctipennis</i>	6	64		
<i>Anopheles quadrimaculatus</i>	4	46		
<i>Coquillettidia perturbans</i>	5	15	1	66.667
<i>Culex pipiens</i>	291	9025	112	12.410
<i>Culiseta melanura</i>	109	1849	3	1.622
Hudson	225	11266	94	8.344
<i>Aedes albopictus</i>	1	25		
<i>Culex</i> spp.	224	11241	94	8.362
Hunterdon	268	12100	11	0.909
<i>Aedes albopictus</i>	2	61		
<i>Culex</i> spp.	266	12039	11	0.914
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	352	2633	9	3.418
<i>Aedes albopictus</i>	68	426		
<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>	5	12		
<i>Anopheles barberi</i>	1	1		
<i>Anopheles crucians</i>	1	2		
<i>Anopheles punctipennis</i>	4	8		
<i>Anopheles quadrimaculatus</i>	7	12		
<i>Coquillettidia perturbans</i>	6	10		
<i>Culex erraticus</i>	7	25		
<i>Culex pipiens</i>	1	1		
<i>Culex restuans</i>	2	2		
<i>Culex salinarius</i>	2	2		
<i>Culex</i> spp.	103	1107	8	7.227
<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		327	4081	18	4.411
	<i>Aedes albopictus</i>	86	1004	1	0.996
	<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>	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>	5	6	1	166.667
	<i>Culex salinarius</i>	5	7		
	<i>Culex</i> spp.	100	2332	15	6.432
	<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		

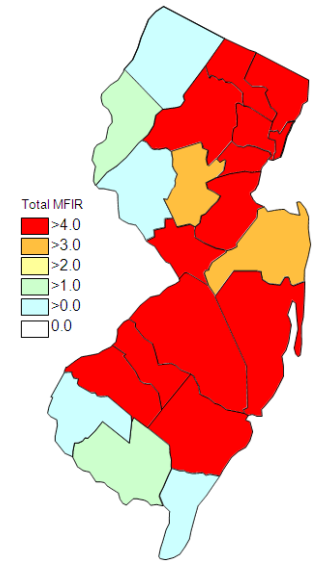
	<i>Coquillettidia perturbans</i>	11	22		
	<i>Culex erraticus</i>	3	10		
	<i>Culex pipiens</i>	12	26		
	<i>Culex restuans</i>	7	9		
	<i>Culex</i> spp.	84	1188		
	<i>Culiseta melanura</i>	26	835	1	1.198
	<i>Psorophora columbiae</i>	2	3		
Somerset		266	3060	10	3.268
	<i>Aedes albopictus</i>	16	54		
	<i>Aedes japonicus</i>	21	132		
	<i>Aedes triseriatus</i>	18	77		
	<i>Anopheles punctipennis</i>	11	35		
	<i>Anopheles quadrimaculatus</i>	2	4		
	<i>Culex</i> spp.	197	2754	10	3.631
Sussex		385	9538	6	0.629
	<i>Aedes japonicus</i>	46	354		
	<i>Aedes stimulans</i>	2	5		
	<i>Aedes triseriatus</i>	16	48		
	<i>Coquillettidia perturbans</i>	17	321		
	<i>Culex pipiens</i>	18	77		
	<i>Culex restuans</i>	8	103		
	<i>Culex salinarius</i>	2	4		
	<i>Culex</i> spp.	257	8593	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		212	6807	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</i> spp.	176	6104	7	1.147
	<i>Psorophora ciliata</i>	1	1		
	<i>Psorophora ferox</i>	1	1		
Grand Total		7256	155721	846	5.433



Cumulative WNV activity in 2009.



WNV activity to 18 Oct, 2010.



WNV activity last week, 2010.

Saint Louis Encephalitis (SLE) through 18 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		284	3525		
	<i>Aedes albopictus</i> *	47	171		
	<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.	179	2915		
	*decrease from prev. week				
Hudson		183	9566		
	<i>Aedes albopictus</i>	1	25		
	<i>Culex</i> spp.	182	9541		
Salem		1	7		
	<i>Culex</i> spp.	1	7		
Sussex		16	48		
	<i>Aedes triseriatus</i>	16	48		
Grand Total		1016	27155		

La Crosse Encephalitis (LAC) through 18 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		