

VECTOR SURVEILLANCE IN NEW JERSEY
EEE, WNV, SLE and LAC
CDC WEEK 36: September 5 to September 11, 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	3.80	0.12	161 [†]	14	0	0
Corbin City (Atlantic County)	Coastal	2.86	0.44	337	16	0	0
Dennisville (Cape May County)	Coastal	6.14	0.18	693	24	2	2.89
Winslow (Camden County)	Inland	7.92	2.84	2041	46	3	1.47
Centerton (Salem County)	Inland	3.62	0.16	1476	36	2	1.36
Turkey Swamp (Monmouth County)	Inland	2.31	0.24	734 [†]	53	0	0
Glassboro (Gloucester County)	Inland	2.62	0.30	432	15	0	0

*Including trial run last week in May. † not adjusted for this week's pool, to be reported next week (but mean is from week 36)

Remarks: There are **18 positive EEE pools** to report at this time. Sixteen positive pools are from *Cs. melanura*, from both traditional resting box monitoring sites (7 positives) and county-run traps (9 positives). No changes in positive pools at the traditional resting box sites (above). To date,

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	2329	4	1.72
Camden	Gravid	3		
Cape May	CO ₂ , Gravid, RB	1720	1	0.58
Cumberland	Gravid, RB	469	1	2.13
Gloucester	RB	1310	3	2.29
Ocean	CO ₂ , Gravid, RB	219		
Salem	CO ₂	1		
Sussex	CO ₂ , NJLT	32		
TOTAL		6100	9	1.48

5825 *Culiseta melanura* mosquitoes forming 205 pools from the resting box sites have been tested. An additional 6100 *Cs. melanura* forming 312 pools have been sampled by the counties using a variety of traps (table to the left), producing two additional positive pools, one in Burlington County, collected on 7th Sep and the second positive in Gloucester County, collected on the 2nd Sep. 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>	23	275		
<i>Aedes canadensis canadensis</i>	5	107		
<i>Aedes cantator</i>	1	1		
<i>Aedes japonicus</i>	4	21		
<i>Aedes sollicitans</i>	10	205		
<i>Aedes taeniorhynchus</i>	3	10		
<i>Aedes triseriatus</i>	18	57		
<i>Aedes trivittatus</i>	1	2		
<i>Aedes vexans</i>	12	223		
<i>Anopheles bradleyi</i>	25	369		
<i>Anopheles crucians</i>	2	122		
<i>Anopheles punctipennis</i>	3	64		
<i>Anopheles quadrimaculatus</i>	13	152		
<i>Coquillettidia perturbans</i>	49	890		
<i>Culex erraticus</i>	83	3098	2	0.65
<i>Culex pipiens</i>	278	2271		
<i>Culex restuans</i>	9	20		
<i>Culex salinarius</i>	45	562		
<i>Culex</i> spp.	192	4609		
<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	781	12977	2	0.15

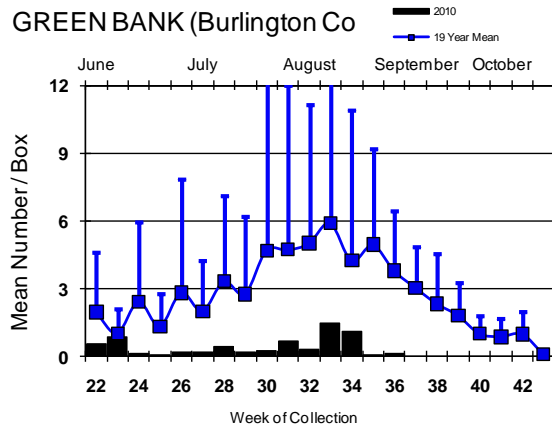
Horses and Humans: There are no positive horse or human cases to date.

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

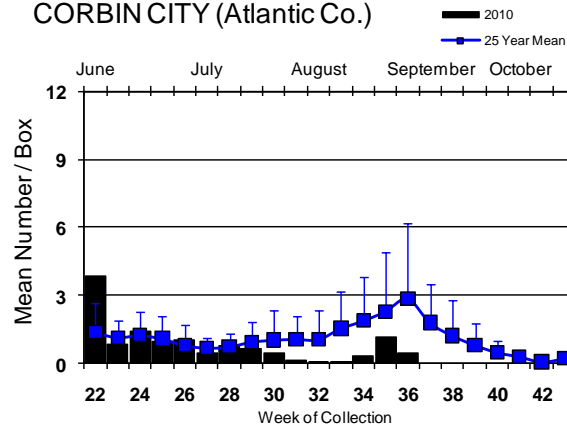
Culiseta melanura Population Graphs

Coastal

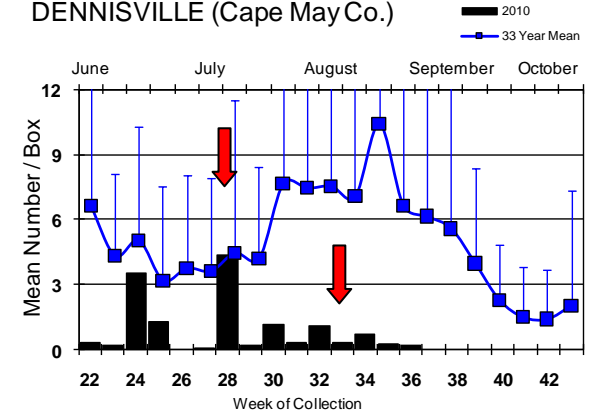
GREEN BANK (Burlington Co)



CORBIN CITY (Atlantic Co.)

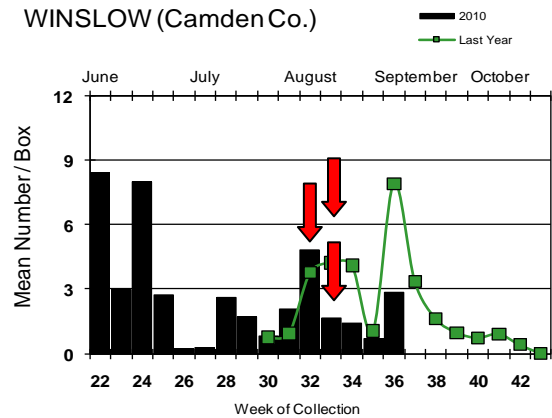


DENNISVILLE (Cape May Co.)

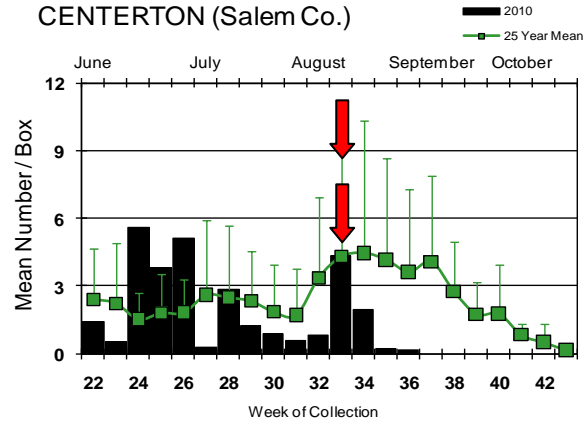


Inland

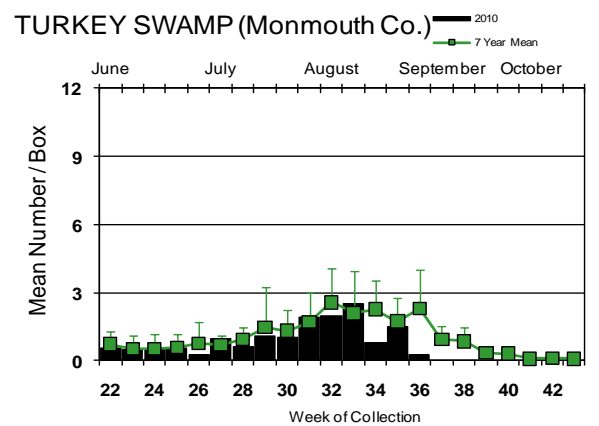
WINSLOW (Camden Co.)



CENTERTON (Salem Co.)



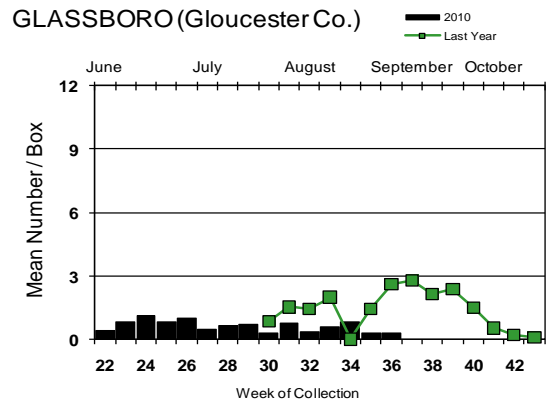
TURKEY SWAMP (Monmouth Co.)



As with the previous few weeks, this week did not produce any positive EEE pools in the enzootic vector at the traditional resting box sites. *Cs. melanura* populations increased significantly from the previous week at Winslow and a minor increase occurred at Green Bank.

↓ = Positive pool(s) detected.

GLASSBORO (Gloucester Co.)



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

- equine: 7(AL) 89(FL) 7(GA) 3(IN) 4(MA) 22 (MS) 37(MI) 2(NC) 1(NH) 1(NY) 1(TX) 1(VA)
- mosquito: 2(CT) 2(GA) 6(FL) 2(IN) 65(MA) 1(NH) 16(NJ) 42(NY) 7(VA)
- sentinel: 2(AL) 142/30(FL chickens/wild) 1 turkey(ME) 19(TX) 2(VA)
- human: 1(TX-out of country acquired case) 4(FL) 1(MA>RI) 1(MA) 3(MI)

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					2
Alaska					
Arizona		233/239	9	1/2	69/82
Arkansas					3
California	285/310	1032	133	12/14	35/38
Colorado		43/44		2	18/30
Connecticut		149/178			2
Delaware		1	3/6		
DC					
Florida	1Flavi		94/128	6/7	2
Georgia	1	12/45		1	4/6
Hawaii					
Idaho				1	
Illinois	39/42	1336/1596			3/4
Indiana	0	209/245		0	2/3
Iowa		0	2/3	1	1/2
Kansas					2
Kentucky		5		1/2	
Louisiana		317/412	4	3	19
Maine					
Maryland		1			3/6
Mass.		82/97		0	1/3
Michigan	3	1			4/9
Minnesota	2	7			2/3
Mississippi		2		2	4/5
Missouri		51		1	1/2

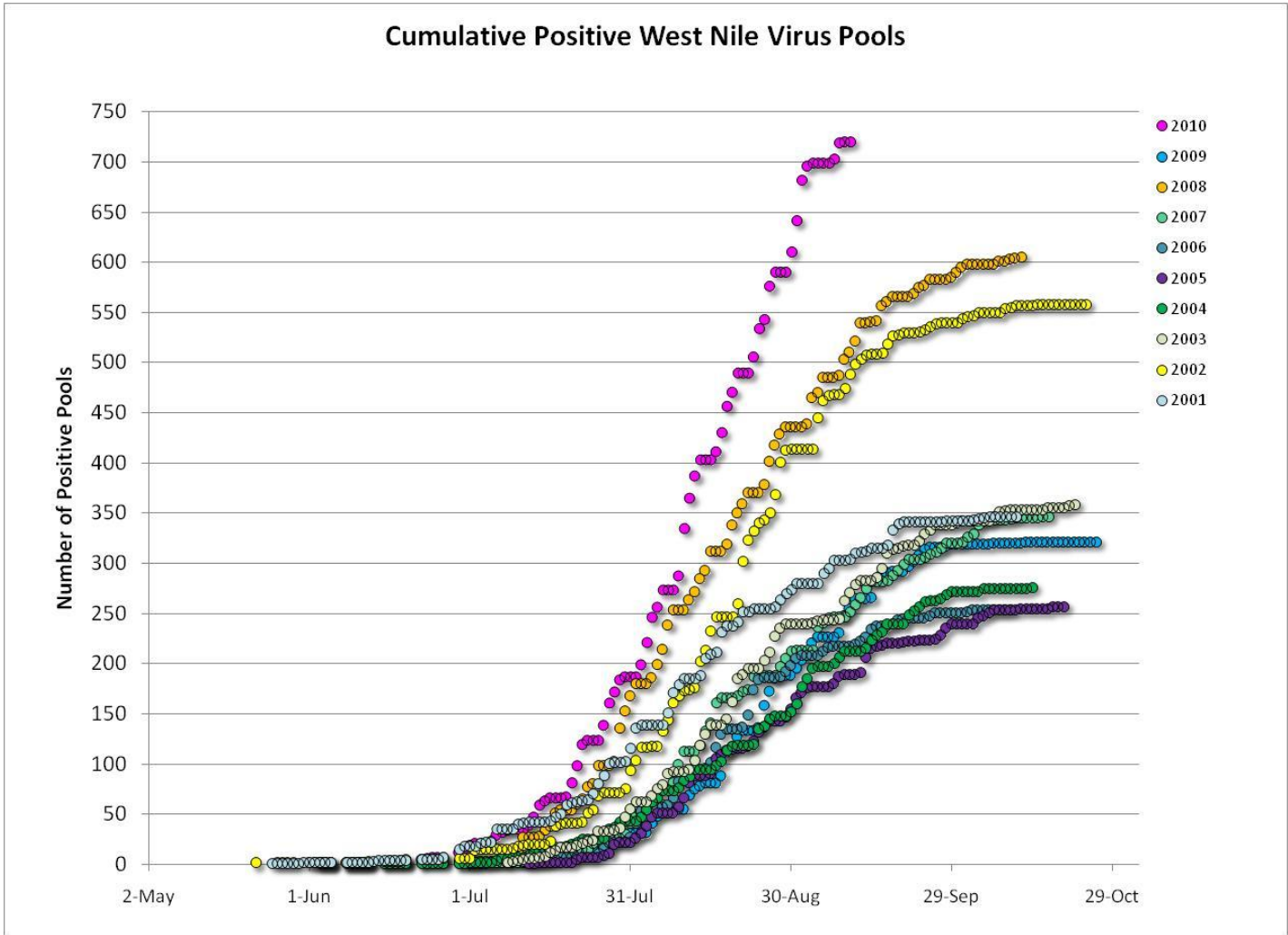
	Birds	Mosquito Pools	Sentinels	Horses	Humans
Montana					
Nebraska	1/6	59/81		0	12/16
Nevada		12		2	
New Hampshire		1		0	0
New Jersey	103/115	643/725	0	1	5
New Mexico					2/5
New York	0	683/758		0	37/52
North Carolina			1		
North Dakota				3	5/7
Ohio		110/171		0	1/2
Oklahoma		3			
Oregon	0	3	0	0	0
Pennsylvania	6/13	716/884		2	1
Rhode Island					
South Carolina		1			
South Dakota		1			9/17
Tennessee	0	145/185		0	0
Texas	1	105		1	5/24
Utah		10/23		1	
Vermont	1	6		0	0
Virginia		89	13		
Washington	0	104/105		0	0
West Virginia	0	26		0	0
Wisconsin	0	3		0	0
Wyoming		13			1

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 14 Sep 2010

Species	Pools	Mosquitoes	Positives	MFIR
<i>Aedes albopictus</i>	481	3202	8	2.498
<i>Aedes canadensis canadensis</i>	26	475		
<i>Aedes cantator</i>	8	22		
<i>Aedes japonicus</i>	313	1485		
<i>Aedes sollicitans</i>	16	257		
<i>Aedes sticticus</i>	1	1		
<i>Aedes stimulans</i>	3	8		
<i>Aedes taeniorhynchus</i>	5	41		
<i>Aedes triseriatus</i>	144	333		
<i>Aedes trivittatus</i>	8	40		
<i>Aedes vexans</i>	84	741		
<i>Anopheles barberi</i>	2	2		
<i>Anopheles bradleyi</i>	33	385		
<i>Anopheles crucians</i>	3	124		
<i>Anopheles punctipennis</i>	42	393		
<i>Anopheles quadrimaculatus</i>	78	768		
<i>Anopheles walkeri</i>	5	29		
<i>Coquillettidia perturbans</i>	103	1648		
<i>Culex erraticus</i>	96	3137		
<i>Culex pipiens</i>	759	17561	160	9.111
<i>Culex restuans</i>	227	1446	5	3.458
<i>Culex salinarius</i>	69	928	1	1.078
<i>Culex spp.</i>	2412	88594	539	6.084
<i>Culex territans</i>	3	4		
<i>Culiseta inornata</i>	1	1		
<i>Culiseta melanura</i>	511	10470	12	1.146
<i>Culiseta minnesotae</i>	1	1		
<i>Orthopodomyia signifera</i>	5	6		
<i>Psorophora ciliata</i>	1	1		
<i>Psorophora columbiae</i>	3	8		
<i>Psorophora cyanescens</i>	1	1		
<i>Psorophora ferox</i>	3	4		
<i>Uranotaenia sapphirina</i>	2	11		
State Total	5449	132127	725	5.487

Remarks: The number of positive WNV mosquito pools to date is 725, well ahead of previous years (graph next page). Drought conditions, as suggested by many others, may have promoted more frequent interactions among vectors and hosts as they come together in the same space and time for available water, encouraging amplification. Drought conditions, on the other hand, may have been a factor in the lower number of positive EEE pools seen this year as compared to last year. Could water tables have fallen enough to affect the survivability of the second generation *Cs. melanura* in larval habitat, reducing potential amplification during this critical time period?



Humans, Horses and Wild Birds: To date in 2010, five human cases of West Nile virus (all neuroinvasive) have been detected in Atlantic County (1 case), Essex County (1), Ocean County (2), and Passaic County (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>

One horse was found positive for WNV in Atlantic County with onset date of 17 August.

One hundred and fifteen dead, wild birds out of 214 tested are been positive for WNV, continue to be well ahead of last year's results in terms of number and timing. This year's positive birds include 103/144 corvids (23 positives/29 tested American Crows, 32/44 Fish Crows, 38/52 Blue Jays and 10/19 unidentified Crows), 1/5 Hawks (unknown species) and 11/65 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
725/ 5449 (13.3%)	256/ 6351 (4.0%)
2010 Positive Birds to date / Total Birds Submitted	This time last year
115/ 214 (53.7%)	24/ 91 (26.4%)

WNV Results by County through 14 Sep 2010

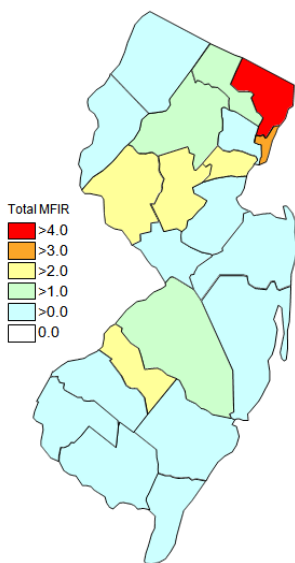
County	Species	Pools	Mosquitoes	Positives	MFIR
Atlantic		215	5266	49	9.305
	<i>Aedes albopictus</i>	27	253	1	3.953
	<i>Aedes canadensis canadensis</i>	3	56		
	<i>Aedes cantator</i>	3	14		
	<i>Aedes japonicus</i>	11	23		
	<i>Aedes sollicitans</i>	2	10		
	<i>Aedes taeniorhynchus</i>	1	24		
	<i>Aedes triseriatus</i>	4	8		
	<i>Aedes trivittatus</i>	3	26		
	<i>Aedes vexans</i>	17	154		
	<i>Anopheles bradleyi</i>	4	11		
	<i>Anopheles punctipennis</i>	5	108		
	<i>Anopheles quadrimaculatus</i>	3	4		
	<i>Coquillettidia perturbans</i>	9	35		
	<i>Culex erraticus</i>	2	5		
	<i>Culex</i> spp.	94	4121	47	11.405
	<i>Culex territans</i>	1	1		
	<i>Culiseta melanura</i>	25	412	1	2.427
	<i>Orthopodomyia signifera</i>	1	1		
Bergen		185	13029	108	8.289
	<i>Aedes albopictus</i>	5	30		
	<i>Aedes japonicus</i>	3	14		
	<i>Culex</i> spp.	177	12985	108	8.317
Burlington		244	8551	40	4.678
	<i>Aedes albopictus</i>	22	268		
	<i>Aedes canadensis canadensis</i>	3	105		
	<i>Aedes japonicus</i>	2	15		
	<i>Aedes sollicitans</i>	5	181		
	<i>Aedes taeniorhynchus</i>	2	9		
	<i>Aedes triseriatus</i>	1	7		
	<i>Aedes vexans</i>	11	221		
	<i>Anopheles bradleyi</i>	5	159		
	<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>	14	573		
	<i>Culex pipiens</i>	4	98	1	10.204
	<i>Culex salinarius</i>	6	38		
	<i>Culex</i> spp.	89	3879	36	9.281
	<i>Culiseta melanura</i>	63	2490	3	1.205
	<i>Psorophora columbiae</i>	1	5		
	<i>Uranotaenia sapphirina</i>	1	6		
Camden		204	4938	67	13.568
	<i>Aedes albopictus</i>	38	138	3	21.739
	<i>Aedes canadensis canadensis</i>	1	1		
	<i>Aedes japonicus</i>	16	23		
	<i>Aedes triseriatus</i>	2	2		
	<i>Aedes trivittatus</i>	1	1		
	<i>Aedes vexans</i>	1	45		
	<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.	107	3744	62	16.560
<i>Culex territans</i>	1	2		
<i>Culiseta melanura</i>	24	929	2	2.153
<i>Othopodomyia signifera</i>	2	3		
<i>Uranotaenia sapphirina</i>	1	5		
Cape May	1246	14454	9	0.623
<i>Aedes albopictus</i>	63	121		
<i>Aedes canadensis canadensis</i>	2	2		
<i>Aedes cantator</i>	1	1		
<i>Aedes japonicus</i>	43	74		
<i>Aedes sollicitans</i>	5	24		
<i>Aedes taeniorhynchus</i>	2	8		
<i>Aedes triseriatus</i>	26	52		
<i>Anopheles bradleyi</i>	17	206		
<i>Anopheles quadrimaculatus</i>	29	500		
<i>Coquillettidia perturbans</i>	14	155		
<i>Culex erraticus</i>	66	2517		
<i>Culex pipiens</i>	425	4997	6	1.201
<i>Culex restuans</i>	176	962	1	1.040
<i>Culex salinarius</i>	42	613	1	1.631
<i>Culex</i> spp.	155	1256		0.000
<i>Culiseta melanura</i>	180	2966	1	0.337
Cumberland	44	555	1	1.802
<i>Aedes albopictus</i>	4	19		
<i>Aedes triseriatus</i>	4	7		
<i>Anopheles bradleyi</i>	3	4		
<i>Anopheles punctipennis</i>	2	2		
<i>Anopheles quadrimaculatus</i>	5	13		
<i>Culex erraticus</i>	4	17		
<i>Culex pipiens</i>	2	21		
<i>Culex restuans</i>	2	2		
<i>Culex territans</i>	1	1		
<i>Culiseta melanura</i>	17	469	1	2.132
Essex	226	3023	23	7.608
<i>Aedes albopictus</i>	41	171		
<i>Aedes japonicus</i>	29	269		
<i>Aedes sollicitans</i>	1	18		
<i>Aedes stimulans</i>	1	3		
<i>Aedes triseriatus</i>	17	35		
<i>Aedes vexans</i>	13	53		
<i>Culex</i> spp.	124	2474	23	9.297
Gloucester	327	10349	104	10.049
<i>Aedes albopictus</i>	16	222		
<i>Aedes japonicus</i>	3	20		
<i>Aedes vexans</i>	2	65		
<i>Anopheles barberi</i>	1	1		
<i>Anopheles punctipennis</i>	1	50		
<i>Anopheles quadrimaculatus</i>	3	30		
<i>Coquillettidia perturbans</i>	3	12		

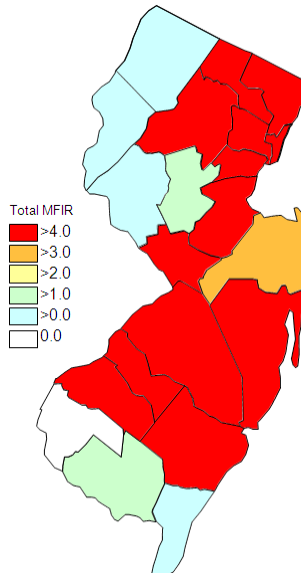
	<i>Culex pipiens</i>	224	8387	102	12.162
	<i>Culiseta melanura</i>	74	1562	2	1.280
Hudson		174	8966	83	9.257
	<i>Culex</i> spp.	174	8966	83	9.257
Hunterdon		195	9662	8	0.828
	<i>Aedes albopictus</i>	2	61		
	<i>Culex</i> spp.	193	9601	8	0.828
Mercer		193	4803	55	11.451
	<i>Aedes albopictus</i>	34	79	1	12.658
	<i>Aedes japonicus</i>	22	35		
	<i>Aedes triseriatus</i>	4	5		
	<i>Aedes vexans</i>	3	75		
	<i>Culex pipiens</i>	84	3956	51	12.892
	<i>Culex restuans</i>	32	368	3	8.152
	<i>Culex salinarius</i>	12	264		
	<i>Culex</i> spp.	2	21		
Middlesex		234	9753	53	5.434
	<i>Aedes albopictus</i>	9	60		
	<i>Aedes japonicus</i>	3	21		
	<i>Aedes triseriatus</i>	1	6		
	<i>Culex</i> spp.	221	9666	53	5.483
Monmouth		279	2363	8	3.386
	<i>Aedes albopictus</i>	46	338		
	<i>Aedes canadensis canadensis</i>	10	89		
	<i>Aedes cantator</i>	3	6		
	<i>Aedes japonicus</i>	33	94		
	<i>Aedes sollicitans</i>	2	22		
	<i>Aedes triseriatus</i>	12	14		
	<i>Aedes vexans</i>	4	11		
	<i>Anopheles barberi</i>	1	1		
	<i>Anopheles crucians</i>	1	2		
	<i>Anopheles punctipennis</i>	3	5		
	<i>Anopheles quadrimaculatus</i>	5	5		
	<i>Coquillettidia perturbans</i>	6	10		
	<i>Culex erraticus</i>	3	5		
	<i>Culex pipiens</i>	1	1		
	<i>Culex restuans</i>	1	1		
	<i>Culex salinarius</i>	2	2		
	<i>Culex</i> spp.	83	1013	7	6.910
	<i>Culiseta melanura</i>	60	741	1	1.350
	<i>Orthopodomyia signifera</i>	2	2		
	<i>Psorophora cyanescens</i>	1	1		
Morris		192	7043	40	5.679
	<i>Aedes albopictus</i>	1	2		
	<i>Aedes japonicus</i>	13	143		
	<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.	166	6598	40	6.062
Ocean		265	3782	17	4.495
	<i>Aedes albopictus</i>	64	829	1	1.206
	<i>Aedes canadensis canadensis</i>	7	222		
	<i>Aedes japonicus</i>	29	91		
	<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 punctipennis</i>	2	4		
	<i>Anopheles quadrimaculatus</i>	1	1		
	<i>Coquillettidia perturbans</i>	13	103		
	<i>Culex erraticus</i>	2	2		
	<i>Culex restuans</i>	3	3	1	333
	<i>Culex salinarius</i>	5	7		
	<i>Culex</i> spp.	82	2244	14	6.239
	<i>Culiseta inornata</i>	1	1		
	<i>Culiseta melanura</i>	32	219	1	4.566
	<i>Psorophora ferox</i>	2	3		
Passaic		134	1809	10	5.528
	<i>Aedes albopictus</i>	28	136		
	<i>Aedes japonicus</i>	23	163		
	<i>Aedes triseriatus</i>	10	21		
	<i>Anopheles punctipennis</i>	3	7		
	<i>Anopheles quadrimaculatus</i>	1	2		
	<i>Coquillettidia perturbans</i>	4	44		
	<i>Culex</i> spp.	65	1436	10	6.964
Salem		257	2014		
	<i>Aedes albopictus</i>	49	222		
	<i>Aedes cantator</i>	1	1		
	<i>Aedes japonicus</i>	20	24		
	<i>Aedes triseriatus</i>	15	17		
	<i>Aedes vexans</i>	24	58		
	<i>Anopheles bradleyi</i>	4	5		
	<i>Anopheles punctipennis</i>	5	5		
	<i>Anopheles quadrimaculatus</i>	19	52		
	<i>Anopheles walkeri</i>	4	5		
	<i>Coquillettidia perturbans</i>	11	22		
	<i>Culex erraticus</i>	3	10		
	<i>Culex pipiens</i>	7	16		
	<i>Culex restuans</i>	5	7		
	<i>Culex</i> spp.	70	917		
	<i>Culiseta melanura</i>	18	650		
	<i>Psorophora columbiae</i>	2	3		
Somerset		198	2381	3	1.260
	<i>Aedes albopictus</i>	14	39		
	<i>Aedes japonicus</i>	20	130		
	<i>Aedes triseriatus</i>	15	64		

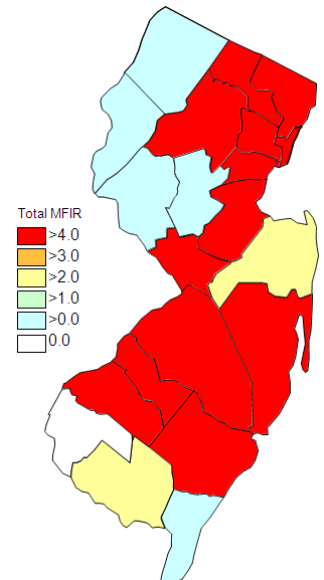
<i>Anopheles punctipennis</i>	9	33		
<i>Anopheles quadrimaculatus</i>	2	4		
<i>Culex</i> spp.	138	2111	3	1.421
Sussex	312	7636	3	0.393
<i>Aedes japonicus</i>	32	256		
<i>Aedes stimulans</i>	2	5		
<i>Aedes triseriatus</i>	16	48		
<i>Coquillettidia perturbans</i>	17	321		
<i>Culex pipiens</i>	11	57		
<i>Culex restuans</i>	8	103		
<i>Culex salinarius</i>	2	4		
<i>Culex</i> spp.	205	6809	3	0.441
<i>Culiseta melanura</i>	18	32		
<i>Culiseta minnesotae</i>	1	1		
Union	153	5528	40	7.236
<i>Aedes albopictus</i>	17	189	2	10.582
<i>Aedes japonicus</i>	10	88		
<i>Coquillettidia perturbans</i>	1	9		
<i>Culex</i> spp.	125	5242	38	7.249
Warren	172	6222	4	0.643
<i>Aedes japonicus</i>	1	2		
<i>Aedes triseriatus</i>	5	18		
<i>Aedes trivittatus</i>	2	11		
<i>Aedes vexans</i>	2	35		
<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.	143	5536	4	0.723
<i>Psorophora ciliata</i>	1	1		
<i>Psorophora ferox</i>	1	1		
Grand Total	5449	132127	725	5.487



Cumulative WNV activity in 2009.



WNV activity to 14 Sep, 2010.



WNV activity last week, 2010.

Saint Louis Encephalitis (SLE) through 14 Sep 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		231	8422		
	<i>Aedes albopictus</i>	22	268		
	<i>Aedes canadensis canadensis</i>	3	105		
	<i>Aedes japonicus</i>	2	15		
	<i>Aedes sollicitans</i>	5	181		
	<i>Aedes taeniorhynchus</i>	2	9		
	<i>Aedes triseriatus</i>	1	7		
	<i>Aedes vexans</i>	11	221		
	<i>Anopheles bradleyi</i>	5	159		
	<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>	14	573		
	<i>Culex pipiens</i>	4	98		
	<i>Culex salinarius</i>	6	38		
	<i>Culex</i> spp.	90	3911		
	<i>Culiseta melanura</i>	49	2329		
	<i>Psorophora columbiae</i>	1	5		
	<i>Uranotaenia sapphirina</i>	1	6		
Camden		168	3878		
	<i>Aedes albopictus</i>	34	111		
	<i>Aedes canadensis canadensis</i>	1	1		
	<i>Aedes japonicus</i>	14	21		
	<i>Aedes triseriatus</i>	2	2		
	<i>Aedes trivittatus</i>	1	1		
	<i>Aedes vexans</i>	1	45		
	<i>Anopheles punctipennis</i>	5	7		
	<i>Anopheles quadrimaculatus</i>	1	1		
	<i>Culex erraticus</i>	2	8		
	<i>Culex</i> spp.	102	3670		
	<i>Culex territans</i>	1	2		
	<i>Culiseta melanura</i>	1	1		
	<i>Orthopodomyia signifera</i>	2	3		
	<i>Uranotaenia sapphirina</i>	1	5		
Essex		187	2936		
	<i>Aedes albopictus</i>	30	147		
	<i>Aedes japonicus</i>	25	259		
	<i>Aedes sollicitans</i>	1	18		

	<i>Aedes triseriatus</i>	2	6		
	<i>Aedes vexans</i>	5	32		
	<i>Culex</i> spp.	124	2474		
Hudson		132	7266		
	<i>Aedes albopictus</i>	1	25		
	<i>Culex</i> spp.	131	7241		
Salem		1	7		
	<i>Culex</i> spp.	1	7		
Sussex		16	48		
	<i>Aedes triseriatus</i>	16	48		
Grand Total		735	22557		

La Crosse Encephalitis (LAC) through 14 Sep 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		13	26		
	<i>Aedes triseriatus</i>	13	26		
Cumberland		4	7		
	<i>Aedes triseriatus</i>	4	7		
Salem		4	4		
	<i>Aedes triseriatus</i>	4	4		
Warren		10	106		
	<i>Aedes canadensis canadensis</i>	4	86		
	<i>Aedes triseriatus</i>	6	20		
Grand Total		31	143		