

VECTOR SURVEILLANCE IN NEW JERSEY EEE and WNV

CDC WEEK 37: September 07 to September 13, 2008

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Culiseta melanura and Eastern Equine Encephalitis

SITE	Inland / Coastal	Historic Mean	Current Weekly Mean	Total Collected to Date*	Total Pools Submitted	EEE Isolations	MFIR
Green Bank (Burlington County)	Coastal	3.7	0.5	135	28		
Corbin City (Atlantic County)	Coastal	3.0	0.2	147	49		
Dennisville (Cape May County)	Coastal	6.5	0.7	471	46		
Waterford (Camden County)	Inland	2.9	0	0	0		
Centerton (Salem County)	Inland	3.8	0.4	245	40	1	4.08
Turkey Swamp (Monmouth County)	Inland	2.5	0.3	255	49		
Glassboro (Gloucester County)	Inland	no history	0.3	42	18		

*Including trial run last week in May.

Remarks: Despite low populations of *Culiseta melanura*, eastern equine encephalitis virus was detected in two separate areas last week (additional pool listed next paragraph). A typical season will include detection of virus in at least one mosquito pool and often a horse case (usually with a poor or incomplete vaccination history). Human cases are less likely to occur, but the infrequent epizootic outbreak can produce a dozen or more cases. How do low populations of mosquitoes amplify virus to detection? One possibility is the possible contributions of another amplifying mosquito, *Culex erraticus*. This species appears to be a significant player in the role of EEE transmission and possibly amplification in the southeastern US. Recent years have shown an increase in *Cx. erraticus* populations in southern New Jersey (global warming effects?). Dr. Peter Bosak mentioned that as water levels have been decreasing, pool habitat has been more favorable to *Cx. erraticus* populations (shorter water column to emergent vegetation), contributing to their increase. We recommend that *Cx. erraticus* collected from traps other than resting boxes should be considered for EEE testing in addition to testing for WNV in southern New Jersey.

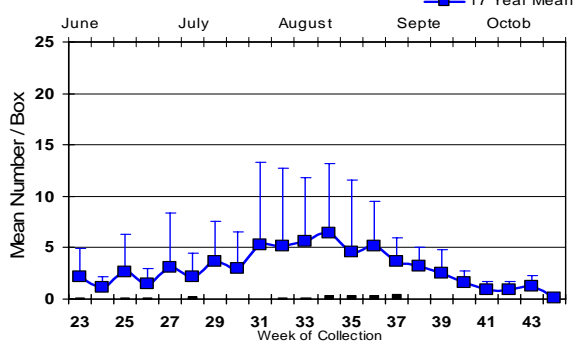
To date, 230 pools from 1295 *Cs. melanura* mosquitoes have been sent for EEE testing from the resting box collections. One EEE positive pool has been detected at the Centerton monitoring site in Salem County. An additional EEE positive pool from Cape May has been detected by the Cape May Mosquito Control Department's lab for a cumulative total of 2 positive pools. No horse or human cases have been reported to date.

An additional 324 pools of 2852 individual mosquitoes from 31 species other than *Cs. melanura* have also been tested and all pools were found to be negative. These species include: *Aedes albopictus*, *Ae. canadensis canadensis*, *Ae. cantator*, *Ae. cinereus*, *Ae. communis*, *Ae. grossbecki*, *Ae. japonicus*, *Ae. sollicitans*, *Ae. sticticus*, *Ae. taeniorhynchus*, *Ae. triseriatus*, *Ae. trivittatus*, *Ae. vexans*, *Anopheles bradleyi*, *An. crucians*, *An. punctipennis*, *An. quadrimaculatus*, *Coquillettidia perturbans*, *Culex erraticus*, *Cx. pipiens*, *Cx. restuans*, *Cx. salinarius*, *Mixed Culex*, *Cx. territans*, *Culiseta inornata*, *Orthopodomyia signifera*, *Psorophora ciliata*, *Ps. columbiae*, *Ps. cyanescens*, *Ps., ferox*, *Ps. howardii* and *Uranotaenia sapphirina*.

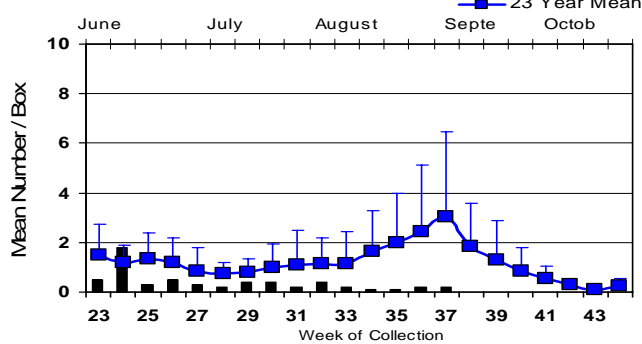
Culiseta melanura Population Graphs

Coastal

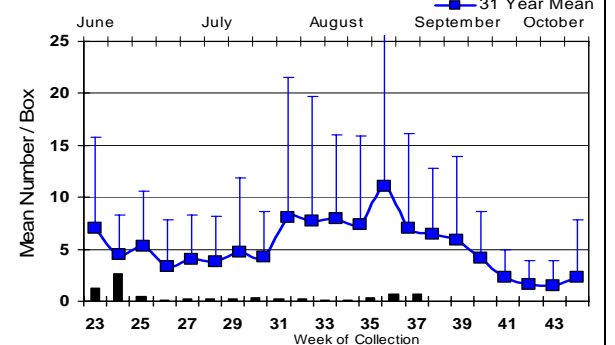
GREEN BANK (Burlington Co.)



CORBIN CITY (Atlantic Co.)

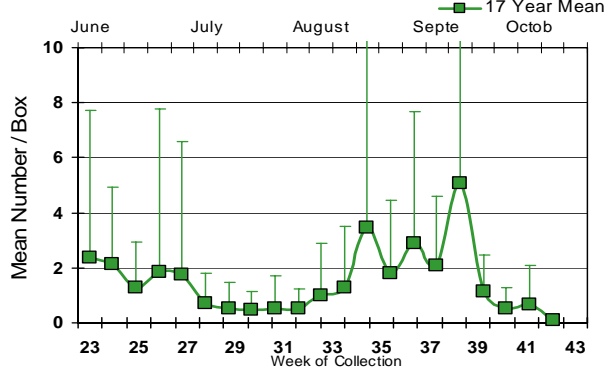


DENNISVILLE (Cape May Co.)

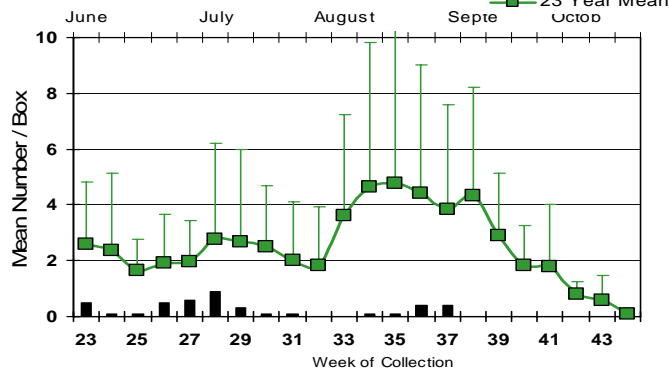


Inland

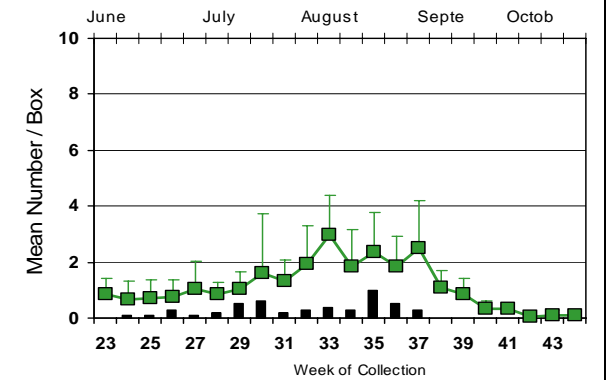
WATERFORD (Camden Co.)



CENTERTON (Salem Co.)



TURKEY SWAMP (Monmouth Co.)

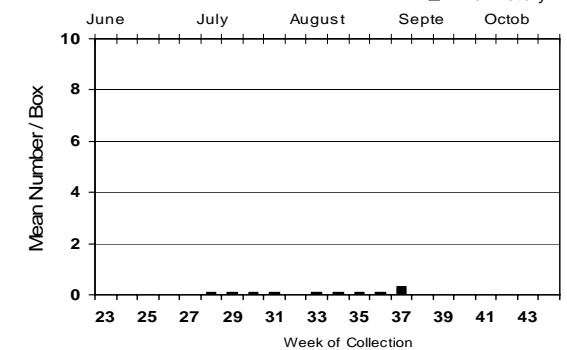


Figures: Inland and coastal resting box sites showing current weekly population levels (in bars) against historical trends (lines with standard deviation). The number of years for historical population levels varies by site.

An additional inland resting box site has been added. This site is located near Glassboro, in Gloucester County. The location is in a wildlife management area, with box location in a mixed forest swamp (Red Maple/White Pine).

Cs. melanura populations rose or were maintained from last week at several of the monitoring sites. Turkey Swamp did not increase and Waterford remained at zero.

GLASSBORO (Gloucester Co)



EEE in US (2008 cumulative cases): (Red = new reported cases occurring)

- equine: 2(AL), 81(FL) 20(GA) 3(LA) 6(MS) 6(NC) 1(NH) 3(SC) 1(TN) 1(WI)
- mosquito: 1(AR) 3(FL) 2(GA) 2(LA) 4(MA) 2(NJ) 2(MD) 4(VA)
- sentinel: 3(AL) 83(FL68 wild) 2/emu(NC) emu(NH) 2(VA)
- human: 1(AL) 1(FL)

West Nile Virus

West Nile in US (2008 cumulative cases): Single black values indicate no change from previous week. Black values / red values equals previous week/**New totals**. ? denotes probable cases.

	Birds	Mosquito Pools	Sentinels	Horses	Humans
Alabama				1	3/7
Alaska					
Arizona	3	133/145	33/39		16/29
Arkansas		15		1	7
California	1658/1813	1518/1628	173/196	8/15	157/198
Colorado	3/4	43/55			40/62
Connecticut		147/164			2
Delaware			+		
Florida	3? live		4	1	1
Georgia		8			
Hawaii					
Idaho	2/3	6/7 counties		1	24/32
Illinois	15	336/459		1	5
Indiana	1/3	66/87			1
Iowa		4	2	2/3	6/7
Kansas					7/12
Kentucky	1	3/4			
Louisiana		600	9	1	7
Maine					
Maryland		3/5			2/6 ?
Mass.	46/50	90/116			
Michigan	3	1			2
Minnesota	7	10/18			15/17
Mississippi		3		2/3	78/84
Missouri	29	184/191		1	5/8
Montana		5		3/4	4
Nebraska	5	67/78		1	23/25

	Birds	Mosquito Pools	Sentinels	Horses	Humans
Nevada	2/3	31/31		1/2	10/12
New Hampshire		1			
New Jersey	31/34	442/477			2
New Mexico		3		1	3
New York	77/89	264/297		1	13/16
North Carolina				1	
North Dakota				1	34/36
Ohio	7	129/134			2
Oklahoma		12			6/8
Oregon	1	12/16			4
Pennsylvania	12	390/440			5
Rhode Island		1/3			
South Carolina	3	5			
South Dakota	1	38		3	28/34
Tennessee		163/523			8
Texas	1	90/100		1	23/34
Utah	2	117/129	2/11	2/3	14/18
Vermont					
Virginia		484/571	1		
Washington	4/6	23/41		17/22	
West Virginia	2	10		2	1
Wisconsin	23/27			2/3	3
Wyoming	1	10/14		1	2/8

Note: Some data reported by states are provisional and are subject to change. Sources for this table can be found [here](#).

Protocol: New Jersey Department of Health and Senior Services (NJDHSS Public Health and Environmental Laboratories, PHEL) tests mosquito pools using RT-PCR Taqman techniques.

Mosquito Species Submitted for West Nile Virus Testing through 15 September 2008

Species	Pools	Mosquitoes	Positives	MFIR
<i>Aedes abserratus</i>	1	9		
<i>Aedes albopictus</i>	726	6972	2	0.29
<i>Aedes atlanticus</i>	1	4		
<i>Aedes atropalpus</i>	1	1		
<i>Aedes canadensis canadensis</i>	56	1243		
<i>Aedes cantator</i>	25	359		
<i>Aedes cinereus</i>	3	5		
<i>Aedes communis</i>	1	1		
<i>Aedes grossbecki</i>	3	4		
<i>Aedes japonicus</i>	317	1599	1	0.63
<i>Aedes sollicitans</i>	23	246		
<i>Aedes sticticus</i>	6	86		
<i>Aedes stimulans</i>	1	1		

<i>Aedes taeniorhynchus</i>	18	284		
<i>Aedes thibaulti</i>	5	13		
<i>Aedes triseriatus</i>	164	447		
<i>Aedes trivittatus</i>	11	58		
<i>Aedes vexans</i>	183	2847		
<i>Anopheles barberi</i>	3	3		
<i>Anopheles bradleyi</i>	47	857		
<i>Anopheles crucians</i>	6	7		
<i>Anopheles earlei</i>	1	1		
<i>Anopheles punctipennis</i>	120	734		
<i>Anopheles quadrimaculatus</i>	107	1406		
<i>Coquillettidia perturbans</i>	92	910		
<i>Culex erraticus</i>	70	405		
<i>Culex pipiens</i>	587	14425	81	5.62
<i>Culex restuans</i>	257	3762	1	0.27
<i>Culex salinarius</i>	181	6238	2	0.32
<i>Culex spp.</i>	2261	88746	390	4.39
<i>Culex territans</i>	55	184		
<i>Culiseta inornata</i>	2	4		
<i>Culiseta melanura</i>	262	1517		
<i>Orthopodomyia signifera</i>	11	20		
<i>Psorophora ciliata</i>	7	51		
<i>Psorophora columbiae</i>	21	70		
<i>Psorophora cyanescens</i>	1	1		
<i>Psorophora ferox</i>	24	129		
<i>Psorophora howardii</i>	4	11		
<i>Uranotaenia sapphirina</i>	17	78		
Grand Total	5682	133739	477	3.57

Remarks: Submitted pools (5,681) comprised of 133,738 individual mosquitoes produced 477 positive pools from 17 different counties.

Humans, Horses and Wild Birds: PHEL reported two human cases: one 73 year old male (onset 22 Aug) from Burlington County and one 65 year old male (onset 10 Aug) from Middlesex County. For more details, see the PHEL's summary sheet: http://www.state.nj.us/health/cd/westnile/documents/wnv_summary_sep12_08.pdf

To date, there have been 137 dead birds submitted for West Nile virus testing with 34 positives Last year, there were 27 positive birds from 159 submissions to this point in time.

2008 Positive Mosquito pools to date / Total Mosquito Pools Submitted	This time last year
477 / 6,107	281 / 5,116

WNV Results by County through 15 September 2008

County	Species	Pools	Mosquitoes	Positives	MFIR
Atlantic		247	5146	7	1.36
	<i>Aedes albopictus</i>	30	711		
	<i>Aedes canadensis canadensis</i>	3	12		
	<i>Aedes cantator</i>	2	16		
	<i>Aedes japonicus</i>	5	6		
	<i>Aedes sollicitans</i>	5	84		
	<i>Aedes taeniorhynchus</i>	12	260		

<i>Aedes thibaulti</i>	6	15		
<i>Aedes triseriatus</i>	12	228		
<i>Aedes vexans</i>	4	8		
<i>Anopheles bradleyi</i>	7	29		
<i>Anopheles punctipennis</i>	3	3		
<i>Anopheles quadrimaculatus</i>	1	1		
<i>Coquillettidia perturbans</i>	5	42		
<i>Culex erraticus</i>	5	100		
<i>Culex pipiens</i>	1	17		
<i>Culex restuans</i>	10	353		
<i>Culex salinarius</i>	3	3		
<i>Culex sp.</i>	70	3072	7	2.28
<i>Culex territans</i>	9	22		
<i>Culiseta melanura</i>	50	149		
<i>Orthopodomyia signifera</i>	2	2		
<i>Psorophora ferox</i>	2	13		
Bergen	486	22551	119	5.28
<i>Aedes albopictus</i>	23	118		
<i>Aedes canadensis canadensis</i>	1	6		
<i>Aedes japonicus</i>	25	150		
<i>Aedes sollicitans</i>	1	1		
<i>Aedes triseriatus</i>	11	39		
<i>Aedes vexans</i>	14	85		
<i>Anopheles barberi</i>	1	1		
<i>Anopheles bradleyi</i>	2	4		
<i>Anopheles punctipennis</i>	4	31		
<i>Coquillettidia perturbans</i>	22	171		
<i>Culex pipiens</i>	79	2873	14	4.87
<i>Culex restuans</i>	30	317		
<i>Culex salinarius</i>	83	4793	1	0.21
<i>Culex spp.</i>	188	13960	104	7.45
<i>Culex territans</i>	1	1		
<i>Orthopodomyia signifera</i>	1	1		
Burlington	353	2997		
<i>Aedes albopictus</i>	33	476		
<i>Aedes canadensis canadensis</i>	21	598		
<i>Aedes cantator</i>	4	148		
<i>Aedes cinereus</i>	1	3		
<i>Aedes grossbecki</i>	1	1		
<i>Aedes japonicus</i>	17	56		
<i>Aedes sollicitans</i>	1	18		
<i>Aedes sticticus</i>	2	5		
<i>Aedes taeniorhynchus</i>	1	2		
<i>Aedes triseriatus</i>	14	41		
<i>Aedes trivittatus</i>	1	2		
<i>Aedes vexans</i>	43	419		
<i>Anopheles bradleyi</i>	2	6		
<i>Anopheles crucians</i>	6	7		
<i>Anopheles punctipennis</i>	17	40		
<i>Anopheles quadrimaculatus</i>	12	22		
<i>Coquillettidia perturbans</i>	21	236		
<i>Culex erraticus</i>	5	14		
<i>Culex pipiens</i>	3	20		
<i>Culex restuans</i>	5	29		

	<i>Culex salinarius</i>	3	3		
	<i>Culex sp.</i>	59	553		
	<i>Culex territans</i>	7	13		
	<i>Culiseta inornata</i>	1	3		
	<i>Culiseta melanura</i>	44	218		
	<i>Orthopodomyia signifera</i>	3	11		
	<i>Psorophora ciliata</i>	4	7		
	<i>Psorophora columbiae</i>	9	27		
	<i>Psorophora cyanescens</i>	1	1		
	<i>Psorophora ferox</i>	4	5		
	<i>Psorophora howardii</i>	1	3		
	<i>Uranotaenia sapphirina</i>	7	10		
Camden		171	3088	12	3.89
	<i>Aedes albopictus</i>	36	287		
	<i>Aedes canadensis canadensis</i>	1	19		
	<i>Aedes cantator</i>	1	22		
	<i>Aedes japonicus</i>	14	31		
	<i>Aedes triseriatus</i>	2	2		
	<i>Aedes trivittatus</i>	1	1		
	<i>Aedes vexans</i>	7	144		
	<i>Anopheles punctipennis</i>	7	31		
	<i>Anopheles quadrimaculatus</i>	7	12		
	<i>Coquillettidia perturbans</i>	4	16		
	<i>Culex erraticus</i>	2	8		
	<i>Culex pipiens</i>	13	530		
	<i>Culex restuans</i>	19	519		
	<i>Culex salinarius</i>	4	15		
	<i>Culex sp.</i>	49	1446	12	8.30
	<i>Culiseta melanura</i>	1	1		
	<i>Orthopodomyia signifera</i>	2	3		
	<i>Psorophora columbiae</i>	1	1		
Cape_May		290	4962		
	<i>Aedes albopictus</i>	3	7		
	<i>Aedes canadensis canadensis</i>	4	71		
	<i>Aedes cantator</i>	8	82		
	<i>Aedes japonicus</i>	6	15		
	<i>Aedes sollicitans</i>	3	81		
	<i>Aedes taeniorhynchus</i>	2	8		
	<i>Aedes triseriatus</i>	1	1		
	<i>Aedes vexans</i>	2	13		
	<i>Anopheles bradleyi</i>	19	527		
	<i>Anopheles punctipennis</i>	8	103		
	<i>Anopheles quadrimaculatus</i>	17	559		
	<i>Coquillettidia perturbans</i>	4	28		
	<i>Culex erraticus</i>	5	18		
	<i>Culex pipiens</i>	60	1225		
	<i>Culex restuans</i>	66	1011		
	<i>Culex salinarius</i>	12	426		
	<i>Culex sp.</i>	23	335		
	<i>Culex territans</i>	3	11		
	<i>Culiseta melanura</i>	44	441		
Cumberland		185	1990	6	3.02
	<i>Aedes albopictus</i>	34	128		

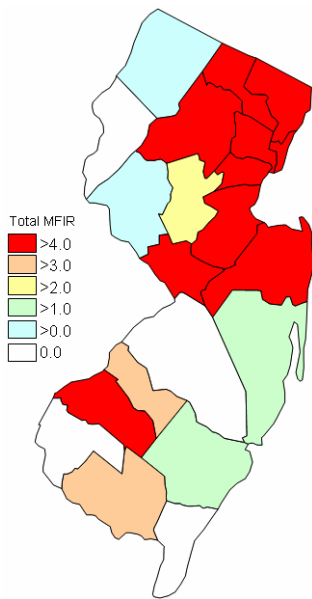
<i>Aedes japonicus</i>	15	37		
<i>Aedes triseriatus</i>	8	12		
<i>Aedes vexans</i>	3	38		
<i>Anopheles bradleyi</i>	1	1		
<i>Anopheles punctipennis</i>	4	10		
<i>Anopheles quadrimaculatus</i>	1	1		
<i>Coquillettidia perturbans</i>	1	1		
<i>Culex erraticus</i>	12	39		
<i>Culex pipiens</i>	16	175	2	11.43
<i>Culex restuans</i>	5	72	1	13.89
<i>Culex salinarius</i>	2	2		
<i>Culex spp.</i>	73	1383	3	2.17
<i>Culex territans</i>	2	5		
<i>Culiseta melanura</i>	4	81		
<i>Psorophora columbiae</i>	1	2		
<i>Psorophora ferox</i>	1	1		
<i>Psorophora howardii</i>	1	1		
<i>Uranotaenia sapphirina</i>	1	1		
Essex	267	3645	30	8.23
<i>Aedes albopictus</i>	71	465		
<i>Aedes japonicus</i>	20	77	1	12.99
<i>Aedes triseriatus</i>	19	33		
<i>Aedes trivittatus</i>	1	1		
<i>Aedes vexans</i>	10	38		
<i>Anopheles punctipennis</i>	5	5		
<i>Anopheles quadrimaculatus</i>	4	11		
<i>Coquillettidia perturbans</i>	2	2		
<i>Culex pipiens</i>	1	75	1	13.33
<i>Culex restuans</i>	1	14		
<i>Culex spp.</i>	126	2913	28	9.61
<i>Culex territans</i>	6	10		
<i>Psorophora columbiae</i>	1	1		
Gloucester	470	9159	39	4.26
<i>Aedes abserratus</i>	1	9		
<i>Aedes albopictus</i>	49	399		
<i>Aedes canadensis canadensis</i>	7	245		
<i>Aedes communis</i>	1	1		
<i>Aedes japonicus</i>	22	119		
<i>Aedes sollicitans</i>	1	2		
<i>Aedes thibaulti</i>	1	5		
<i>Aedes triseriatus</i>	6	16		
<i>Aedes vexans</i>	8	259		
<i>Anopheles bradleyi</i>	4	86		
<i>Anopheles earlei</i>	1	1		
<i>Anopheles punctipennis</i>	17	63		
<i>Anopheles quadrimaculatus</i>	20	43		
<i>Coquillettidia perturbans</i>	7	37		
<i>Culex erraticus</i>	3	39		
<i>Culex pipiens</i>	257	7043	39	5.54
<i>Culex restuans</i>	17	584		
<i>Culex salinarius</i>	6	34		
<i>Culex territans</i>	7	49		
<i>Culiseta melanura</i>	29	91		

<i>Psorophora ferox</i>	3	9		
<i>Uranotaenia sapphirina</i>	3	25		
Hudson	155	7696	54	7.02
<i>Culex spp.</i>	155	7696	54	7.02
Hunterdon	210	10000	3	0.30
<i>Aedes albopictus</i>	3	23		
<i>Aedes japonicus</i>	1	6		
<i>Aedes trivittatus</i>	1	18		
<i>Aedes vexans</i>	2	55		
<i>Anopheles punctipennis</i>	1	50		
<i>Anopheles quadrimaculatus</i>	2	25		
<i>Culex erraticus</i>	1	10		
<i>Culex spp.</i>	198	9812	3	0.31
<i>Culiseta inornata</i>	1	1		
Mercer	377	3849	28	7.27
<i>Aedes albopictus</i>	159	1622	1	0.62
<i>Aedes atropalpus</i>	53	95		
<i>Aedes japonicus</i>	21	41		
<i>Aedes stimulans</i>	3	13		
<i>Aedes triseriatus</i>	1	1		
<i>Aedes vexans</i>	1	1		
<i>Culex erraticus</i>	15	43		
<i>Culex pipiens</i>	68	1473	23	15.61
<i>Culex restuans</i>	30	127		
<i>Culex salinarius</i>	12	161		
<i>Culex spp.</i>	11	267	4	14.98
<i>Culex territans</i>	1	1		
<i>Orthopodomyia signifera</i>	1	1		
<i>Psorophora columbiae</i>	1	3		
Middlesex	294	7118	42	5.90
<i>Aedes albopictus</i>	28	276		
<i>Aedes japonicus</i>	11	52		
<i>Aedes triseriatus</i>	4	16		
<i>Aedes trivittatus</i>	1	1		
<i>Aedes vexans</i>	21	512		
<i>Culex erraticus</i>	1	1		
<i>Culex pipiens</i>	22	214	1	4.67
<i>Culex restuans</i>	10	135		
<i>Culex salinarius</i>	14	324	1	3.09
<i>Culex spp.</i>	171	5517	40	7.25
<i>Culex territans</i>	3	10		
<i>Psorophora ciliata</i>	3	44		
<i>Psorophora columbiae</i>	1	4		
<i>Psorophora ferox</i>	1	1		
<i>Psorophora howardii</i>	1	3		
<i>Uranotaenia sapphirina</i>	2	8		
Monmouth	419	4740	24	5.06
<i>Aedes albopictus</i>	73	450		
<i>Aedes canadensis canadensis</i>	3	18		
<i>Aedes cantator</i>	4	5		

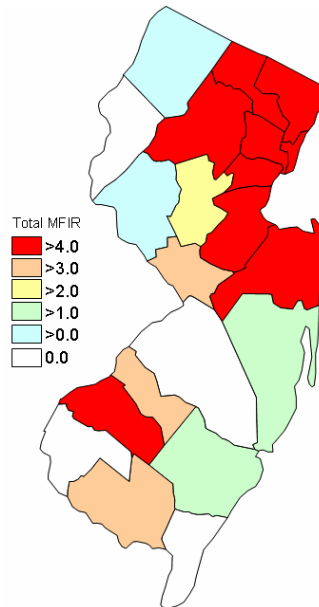
<i>Aedes japonicus</i>	16	28		
<i>Aedes sollicitans</i>	8	36		
<i>Aedes taeniorhynchus</i>	3	14		
<i>Aedes triseriatus</i>	7	14		
<i>Aedes trivittatus</i>	2	3		
<i>Aedes vexans</i>	18	110		
<i>Anopheles barberi</i>	1	1		
<i>Anopheles punctipennis</i>	10	13		
<i>Anopheles quadrimaculatus</i>	5	6		
<i>Coquillettidia perturbans</i>	4	5		
<i>Culex erraticus</i>	4	31		
<i>Culex pipiens</i>	46	475		
<i>Culex restuans</i>	33	218		
<i>Culex salinarius</i>	12	36		
<i>Culex spp.</i>	120	3020	24	7.95
<i>Culex territans</i>	8	40		
<i>Culiseta melanura</i>	42	217		
Morris	195	66729	30	4.46
<i>Aedes japonicus</i>	4	25		
<i>Aedes triseriatus</i>	1	3		
<i>Coquillettidia perturbans</i>	1	50		
<i>Culex spp.</i>	188	6647	30	4.51
Ocean	292	5326	10	1.88
<i>Aedes albopictus</i>	79	1259	1	0.79
<i>Aedes canadensis canadensis</i>	6	80		
<i>Aedes cantator</i>	1	9		
<i>Aedes japonicus</i>	20	45		
<i>Aedes sollicitans</i>	3	23		
<i>Aedes triseriatus</i>	10	22		
<i>Aedes vexans</i>	12	45		
<i>Anopheles bradleyi</i>	2	2		
<i>Anopheles punctipennis</i>	6	10		
<i>Anopheles quadrimaculatus</i>	2	2		
<i>Coquillettidia perturbans</i>	4	15		
<i>Culex pipiens</i>	8	248	1	4.03
<i>Culex restuans</i>	15	245		
<i>Culex salinarius</i>	13	92		
<i>Culex sp.</i>	95	3129	8	2.56
<i>Culex territans</i>	1	1		
<i>Culiseta melanura</i>	10	84		
<i>Psorophora ferox</i>	5	15		
Passaic	97	3433	28	8.16
<i>Aedes albopictus</i>	9	61		
<i>Aedes japonicus</i>	7	86		
<i>Aedes triseriatus</i>	1	2		
<i>Anopheles punctipennis</i>	1	5		
<i>Culex spp.</i>	79	3279	28	8.54
Salem	303	3760		
<i>Aedes albopictus</i>	25	92		
<i>Aedes atlanticus</i>	7	181		
<i>Aedes canadensis canadensis</i>	5	77		

<i>Aedes cantator</i>	2	3		
<i>Aedes grossbecki</i>	11	27		
<i>Aedes japonicus</i>	1	1		
<i>Aedes sollicitans</i>	3	80		
<i>Aedes sticticus</i>	13	29		
<i>Aedes triseriatus</i>	17	839		
<i>Aedes vexans</i>	1	4		
<i>Anopheles bradleyi</i>	10	202		
<i>Anopheles punctipennis</i>	26	349		
<i>Anopheles quadrimaculatus</i>	32	720		
<i>Coquillettidia perturbans</i>	8	92		
<i>Culex erraticus</i>	17	102		
<i>Culex pipiens</i>	9	31		
<i>Culex restuans</i>	9	21		
<i>Culex salinarius</i>	16	345		
<i>Culex spp.</i>	33	190		
<i>Culex territans</i>	7	21		
<i>Culiseta melanura</i>	38	235		
<i>Psorophora columbiae</i>	4	27		
<i>Psorophora ferox</i>	6	83		
<i>Psorophora howardii</i>	1	4		
<i>Uranotaenia sapphirina</i>	2	5		
Somerset	214	3592	12	3.34
<i>Aedes albopictus</i>	13	52		
<i>Aedes canadensis canadensis</i>	1	2		
<i>Aedes japonicus</i>	35	285		
<i>Aedes triseriatus</i>	32	136		
<i>Anopheles barberi</i>	1	1		
<i>Anopheles punctipennis</i>	6	7		
<i>Anopheles quadrimaculatus</i>	3	3		
<i>Culex pipiens</i>	2	22		
<i>Culex restuans</i>	2	19		
<i>Culex spp.</i>	117	3063	12	3.92
<i>Orthopodomyia signifera</i>	2	2		
Sussex	278	10888	4	0.37
<i>Aedes canadensis canadensis</i>	2	11		
<i>Aedes cinereus</i>	2	2		
<i>Aedes japonicus</i>	26	399		
<i>Aedes sticticus</i>	1	1		
<i>Aedes triseriatus</i>	6	23		
<i>Aedes trivittatus</i>	4	32		
<i>Aedes vexans</i>	4	32		
<i>Anopheles punctipennis</i>	3	8		
<i>Anopheles quadrimaculatus</i>	1	1		
<i>Coquillettidia perturbans</i>	9	215		
<i>Culex pipiens</i>	2	4		
<i>Culex restuans</i>	4	96		
<i>Culex salinarius</i>	1	4		
<i>Culex spp.</i>	210	10030	4	0.40
<i>Psorophora ferox</i>	1	1		
<i>Uranotaenia sapphirina</i>	2	29		
Union	174	4102	29	7.07

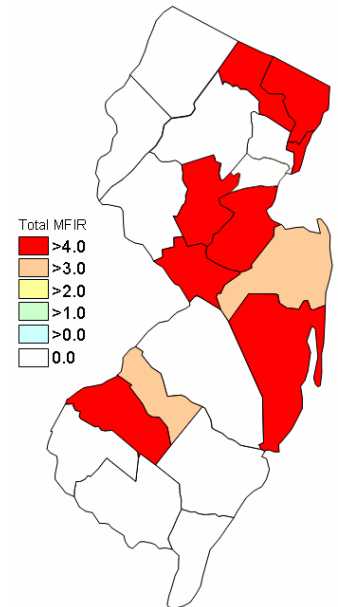
<i>Aedes albopictus</i>	58	546		
<i>Aedes japonicus</i>	7	11		
<i>Aedes triseriatus</i>	2	2		
<i>Aedes vexans</i>	7	17		
<i>Anopheles punctipennis</i>	1	2		
<i>Culex restuans</i>	1	2		
<i>Culex spp.</i>	94	3516	29	8.25
<i>Psorophora columbiae</i>	3	5		
<i>Psorophora ferox</i>	1	1		
Warren	204	8967		
<i>Aedes japonicus</i>	2	49		
<i>Culex spp.</i>	202	8918		
Grand Total	5681	133738	477	3.57



Cumulative activity to last week



Cumulative activity to this week



Recent Activity 8/31 to 9/13)

RAMP (Rapid Analyte Measurement Platform). More than half of the counties in New Jersey are incorporating the use of RAMP results in their vector surveillance programs. Counties participate with the PHEL Lab in monitoring the efficacy and sensitivity of the RAMP results by sending in samples to be confirmed. Note that not all samples done by the counties are sent in to PHEL and therefore the number of pools submitted can differ from the number of pools reported by the counties.

Note: PHEL reported additional positive RAMP pools for data not currently in the database. This table will be updated to include those positives when the database is up to date.

RAMP Results for 15 September 2008

County	Species	Pools	Mosquitoes	Positives	PHEL (pools submitted/+/-)
Monmouth		75	671		
	<i>Aedes albopictus</i>	4	11		
	<i>Aedes canadensis</i>	8	38		
	<i>Aedes cantator</i>	3	13		
	<i>Aedes japonicus</i>	11	42		
	<i>Aedes triseriatus</i>	1	1		
	<i>Anopheles punctipennis</i>	3	6		
	<i>Coquillettidia perturbans</i>	1	1		
	<i>Culex spp.</i>	2	2		
	<i>Culiseta melanura</i>	1	1		
Warren		51	1968		
	<i>Aedes japonicus</i>	3	33		
	<i>Aedes triseriatus</i>	1	1		
	<i>Aedes vexans</i>	1	2		
	<i>Culex restuans</i>	1	4		
	<i>Culex spp.</i>	45	1928	2	9/0/2