

VECTOR SURVEILLANCE IN NEW JERSEY EEE and WNV

CDC WEEK 42: October 12 to October 18, 2008

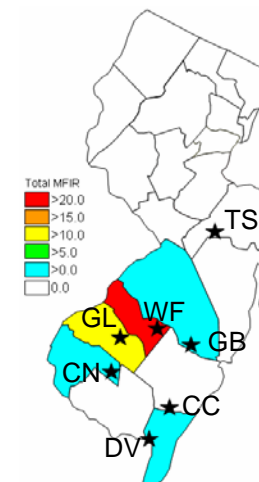
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Mosquito Control Commission.

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	0.9	0.2	245	46	1	4.08
Corbin City (Atlantic County)	Coastal	0.3	< 0.1	161	55		
Dennisville (Cape May County)	Coastal	1.5	0.6	586	64	1	1.71
Waterford (Camden County)	Inland	0.7	< 0.1	64	11	2	31.25
Centerton (Salem County)	Inland	0.8	1.6	545	60	2	3.67
Turkey Swamp (Monmouth County)	Inland	0.3	< 0.1	270	58		
Glassboro (Gloucester County)	Inland	no history	0.1	82	33	1	12.20

*Including trial run last week in May.

Remarks: While populations of *Cs. melanura* have decreased as it gets colder, eastern equine encephalitis activity within the mosquito populations have increased significantly. There now appears to be widespread dissemination of the virus in southern New Jersey, with 4 additional positive pools detected this past week. All eight pools (including one detected by the Cape May labs) were composed of the enzootic vector, *Culiseta melanura*. After first detection, county personnel put additional resting boxes out to monitor sites previously shown to be positive for EEE detection. None of these sites have detected EEE activity. The MFIR values are very high, in part due to the low mosquito population levels. It may be that these few enzootic vectors, despite dissemination, are too few to help generate a high virus load and thus EEE is not being transmitted to traditional bridge vectors such as *Aedes sollicitans* and *Coquillettidia perturbans*. However, while the past weekend nighttime temperatures were low, at killing frost values, caution should remain at more southern coastal areas as some reports of mosquitoes on the wing continue to come in, and thus the potential for transmission to bridge vectors, or for primary enzootic vectors to act as bridge vectors, remain. [The figure to the right map the MFIR values from above. CC=Corbin City, CN=Centerton, DV=Dennisville, GB=Green Bank, GL=Glassboro, TS=Turkey Swamp, WF=Waterford.]

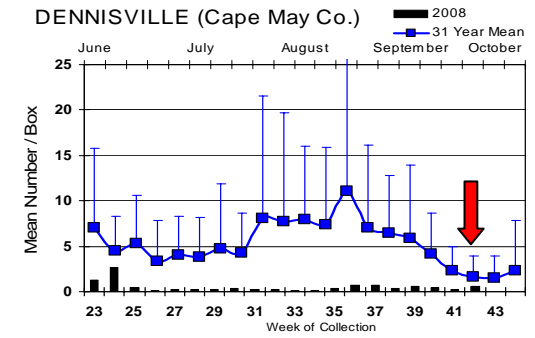
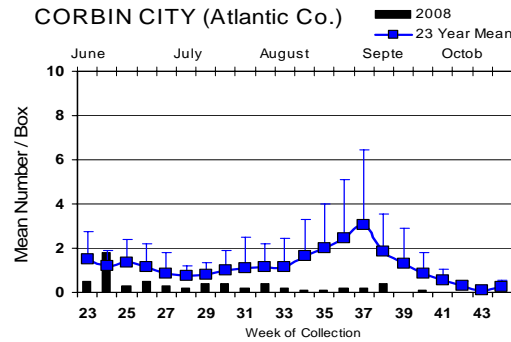
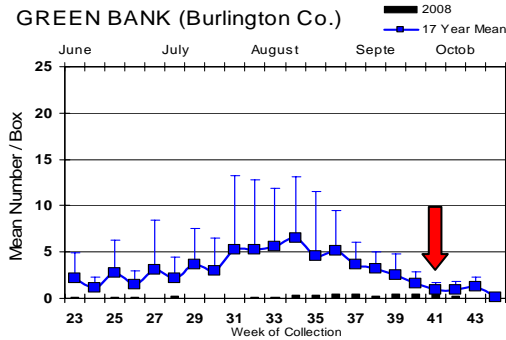


To date, 327 pools from 1953 *Cs. melanura* mosquitoes have been sent for EEE testing from the resting box collections. Previously, an additional EEE positive pool from Cape May had been detected by the Cape May Mosquito Control Department's lab, giving a statewide cumulative total of 4 positive EEE pools. No horse or human cases have been reported to date.

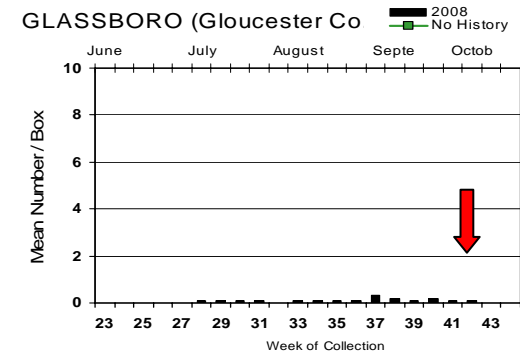
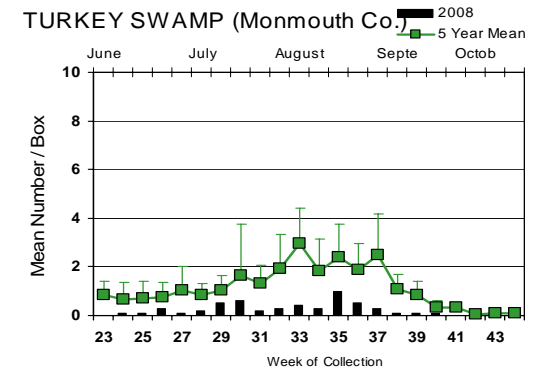
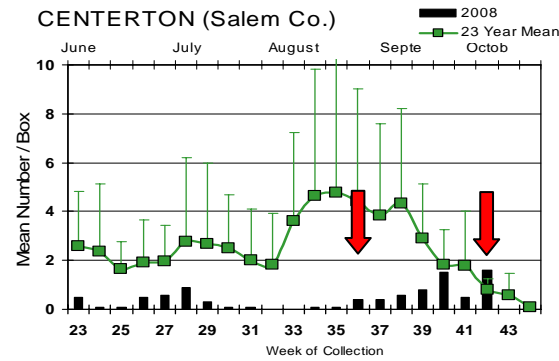
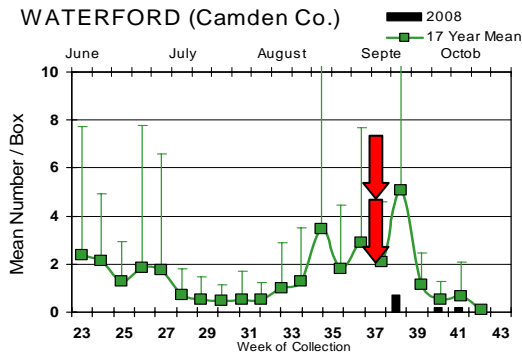
An additional 555 pools of 4966 individual mosquitoes from 31 species other than *Cs. melanura* have also been tested and all pools were found to be negative. These species include: *Aedes albopictus*, *Ae. canadensis canadensis*, *Ae. cantator*, *Ae. cinereus*, *Ae. communis*, *Ae. grossbecki*, *Ae. 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. 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



Inland



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).

Red arrows indicate when *Cs. melanura* populations were detected as positive for eastern equine encephalitis. Earliest infection occurred at week 36 in Centerton.

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

- equine: 13(AL), 84(FL) 22(GA) 7(LA) 1(MA) 1(ME) 7(MS) 11(NC) 5(SC) 1(TN) 2(TX) 1(VA) 1(WI)
- mosquito: 1(AR) 3(FL) 2(GA) 1(IN) 5(LA) 13(MA) 4(MD) 1(ME) 8(NH) 7(NJ) 4(MD) 9(VA)
- sentinel: 3(AL) 3(DE) 112(FL74 wild) 19[2emu](NC) emu(NH) 5(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**.

	Birds	Mosquito Pools	Sentinels	Horses	Humans
Alabama				4	7/19
Alaska					
Arizona	3	199/200	40	3	77/90
Arkansas	2	19		1	8
California	2319/2387	1831/1849	452/481	26/29	359/345
Colorado	4	61		1	79/86
Connecticut		190			7
Delaware	2		16/18		1
DC		50			
Florida	3 live		9	1	3
Georgia	2/4	25/42			5/6
Hawaii					
Idaho	4	7 counties		1	39
Illinois	30/31	626/641		1	16/19
Indiana	6	187/191			3
Iowa	3	5	3	5	8
Kansas					16/22
Kentucky	2	11		3/5	1/2
Louisiana		600	9	1	7
Maine					
Maryland		10		1	4/6
Mass.	63	133/135			
Michigan	8	1/2		1	9/14
Minnesota	7	22			21
Mississippi		3		2	99/100
Missouri	29	215		1	15
Montana		5		6	5
Nebraska	10/17	79/88		2	37/44

	Birds	Mosquito Pools	Sentinels	Horses	Humans
Nevada	4	38		2	15
New Hampshire		1			
New Jersey	51/52	595/602	1		7
New Mexico		3		2	7
New York	154	351		2	36/42
North Carolina				1	1
North Dakota				1	43
Ohio	11	355			16
Oklahoma		15			8
Oregon	2	18			16
Pennsylvania	14	518		1/2	5
Rhode Island		10			1
South Carolina	3	7			
South Dakota	1	39		4	37
Tennessee	1	618			8
Texas	2/3	114/115		2	51
Utah	2/3	140	16	7	26/27
Vermont	1	1			
Virginia		675	1		1
Washington	19/20	41/57		37	2
West Virginia	2	44		2	1
Wisconsin	38			5	6
Wyoming	5	14		1	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 21 October 2008

Species	Pools	Mosquitoes	Positives	MFIR
<i>Aedes abserratus</i>	1	9		
<i>Aedes albopictus</i>	1084	9390	3	0.32
<i>Aedes atlanticus</i>	2	5		
<i>Aedes atropalpus</i>	1	1		
<i>Aedes canadensis canadensis</i>	62	1260		
<i>Aedes cantator</i>	31	398		
<i>Aedes cinereus</i>	3	5		
<i>Aedes communis</i>	1	1		
<i>Aedes grossbecki</i>	3	4		
<i>Aedes japonicus</i>	516	2155	1	0.46
<i>Aedes sollicitans</i>	60	1273		
<i>Aedes sticticus</i>	9	93		

<i>Aedes stimulans</i>	1	1		
<i>Aedes taeniorhynchus</i>	36	683		
<i>Aedes thibaulti</i>	5	13		
<i>Aedes triseriatus</i>	229	649		
<i>Aedes trivittatus</i>	21	169		
<i>Aedes vexans</i>	295	3782		
<i>Anopheles atropos</i>	1	1		
<i>Anopheles barberi</i>	3	3		
<i>Anopheles bradleyi</i>	77	1141		
<i>Anopheles crucians</i>	11	35		
<i>Anopheles earlei</i>	1	1		
<i>Anopheles punctipennis</i>	172	965		
<i>Anopheles quadrimaculatus</i>	170	2045		
<i>Coquillettidia perturbans</i>	105	941		
<i>Culex erraticus</i>	161	1244		
<i>Culex pipiens</i>	975	20586	118	5.73
<i>Culex restuans</i>	478	4862	6	1.23
<i>Culex salinarius</i>	254	9735	2	0.21
<i>Culex spp.</i>	2940	104525	470	4.50
<i>Culex territans</i>	85	361		
<i>Culiseta inornata</i>	3	5		
<i>Culiseta melanura</i>	427	2464	3	1.22
<i>Orthopodomyia signifera</i>	12	21		
<i>Psorophora ciliata</i>	9	54		
<i>Psorophora columbiae</i>	33	206		
<i>Psorophora cyanescens</i>	1	1		
<i>Psorophora ferox</i>	37	178		
<i>Psorophora howardii</i>	4	11		
<i>Uranotaenia sapphirina</i>	38	251		
State Total	8357	169527	602	3.56

Remarks: Submitted pools (8,357) comprised of 169,527 individual mosquitoes produced 602 positive pools from 20 different counties. This week, *Culiseta melanura* was detected positive for WNV. This primary bird-feeder is the enzootic vector for eastern equine encephalitis and as such, it is not surprising that this mosquito would also be exposed to WNV, another arbovirus with avian hosts. Limitations to exposure by *Culiseta melanura* would likely come through the different habitat that each disease exploits (WNV = more urban/suburban; EEE = more rural).

Humans, Horses and Wild Birds: A total of seven humans have been reported by PHEL as having contracted WNV. For more details plus information about WNV, see the PHEL's West Nile Virus Alert and FAQ Sheets: <http://www.state.nj.us/health/cd/westnile/enceph.htm>

No confirmed horse cases have occurred.

To date, there have been 163 dead birds submitted for West Nile virus testing with 53 positives Last year, there were 45 positive birds from 183 submissions to this point in time.

2008 Positive Mosquito pools to date / Total Mosquito Pools Submitted	This time last year
602 / 8,357	346 / 7,015

WNV Results by County through 21 October 2008

County	Species	Pools	Mosquitoes	Positives	MFIR
Atlantic		346	6657	10	1.50
	<i>Aedes albopictus</i>	37	749		
	<i>Aedes canadensis canadensis</i>	4	13		
	<i>Aedes cantator</i>	5	38		
	<i>Aedes japonicus</i>	7	12		
	<i>Aedes sollicitans</i>	19	683		
	<i>Aedes taeniorhynchus</i>	23	564		
	<i>Aedes thibaulti</i>	4	8		
	<i>Aedes triseriatus</i>	8	19		
	<i>Aedes vexans</i>	22	441		
	<i>Anopheles atropos</i>	1	1		
	<i>Anopheles bradleyi</i>	13	81		
	<i>Anopheles crucians</i>	2	24		
	<i>Anopheles punctipennis</i>	9	15		
	<i>Anopheles quadrimaculatus</i>	3	6		
	<i>Coquillettidia perturbans</i>	6	44		
	<i>Culex erraticus</i>	11	135		
	<i>Culex pipiens</i>	1	17		
	<i>Culex restuans</i>	12	357	1	2.80
	<i>Culex salinarius</i>	3	3		
	<i>Culex sp.</i>	79	3236	9	2.78
	<i>Culex territans</i>	10	24		
	<i>Culiseta melanura</i>	59	167		
	<i>Orthopodomyia signifera</i>	2	2		
	<i>Psorophora columbiae</i>	1	1		
	<i>Psorophora ferox</i>	4	15		
	<i>Uranotaenia sapphirina</i>	1	2		
Bergen		660	30826	153	4.96
	<i>Aedes albopictus</i>	29	151		
	<i>Aedes canadensis canadensis</i>	1	6		
	<i>Aedes japonicus</i>	34	165		
	<i>Aedes sollicitans</i>	1	1		
	<i>Aedes triseriatus</i>	13	42		
	<i>Aedes vexans</i>	26	108		
	<i>Anopheles barberi</i>	1	1		
	<i>Anopheles bradleyi</i>	6	15		
	<i>Anopheles punctipennis</i>	6	35		
	<i>Coquillettidia perturbans</i>	29	192		
	<i>Culex pipiens</i>	100	3561	15	4.21
	<i>Culex restuans</i>	32	321		
	<i>Culex salinarius</i>	130	8051	1	0.12
	<i>Culex spp.</i>	250	18175	137	7.54
	<i>Culex territans</i>	1	1		
	<i>Orthopodomyia signifera</i>	1	1		
Burlington		541	4076	5	1.23
	<i>Aedes albopictus</i>	62	579		
	<i>Aedes canadensis canadensis</i>	23	609		
	<i>Aedes cantator</i>	4	148		
	<i>Aedes cinereus</i>	1	3		
	<i>Aedes grossbecki</i>	1	1		
	<i>Aedes japonicus</i>	25	72		

<i>Aedes sollicitans</i>	2	22		
<i>Aedes sticticus</i>	2	5		
<i>Aedes taeniorhynchus</i>	2	9		
<i>Aedes triseriatus</i>	18	45		
<i>Aedes trivittatus</i>	2	5		
<i>Aedes vexans</i>	66	666		
<i>Anopheles bradleyi</i>	4	16		
<i>Anopheles crucians</i>	8	10		
<i>Anopheles punctipennis</i>	21	55		
<i>Anopheles quadrimaculatus</i>	18	31		
<i>Coquillettidia perturbans</i>	22	237		
<i>Culex erraticus</i>	12	36		
<i>Culex pipiens</i>	19	179	3	16.76
<i>Culex restuans</i>	16	98	1	10.20
<i>Culex salinarius</i>	7	7		
<i>Culex sp.</i>	79	735	1	1.36
<i>Culex territans</i>	13	24		
<i>Culiseta inornata</i>	1	3		
<i>Culiseta melanura</i>	72	389		
<i>Orthopodomyia signifera</i>	4	12		
<i>Psorophora ciliata</i>	6	10		
<i>Psorophora columbiae</i>	14	46		
<i>Psorophora cyanescens</i>	1	1		
<i>Psorophora ferox</i>	5	6		
<i>Psorophora howardii</i>	1	3		
<i>Uranotaenia sapphirina</i>	10	14		
Camden	221	3731	18	4.82
<i>Aedes albopictus</i>	43	301		
<i>Aedes canadensis canadensis</i>	1	19		
<i>Aedes cantator</i>	1	22		
<i>Aedes japonicus</i>	16	33		
<i>Aedes triseriatus</i>	2	2		
<i>Aedes trivittatus</i>	1	1		
<i>Aedes vexans</i>	7	144		
<i>Anopheles punctipennis</i>	8	33		
<i>Anopheles quadrimaculatus</i>	8	14		
<i>Coquillettidia perturbans</i>	4	16		
<i>Culex erraticus</i>	3	9		
<i>Culex pipiens</i>	14	531		
<i>Culex restuans</i>	22	523		
<i>Culex salinarius</i>	4	15		
<i>Culex sp.</i>	69	1999	17	8.50
<i>Culex territans</i>	1	1		
<i>Culiseta inornata</i>	1	1		
<i>Culiseta melanura</i>	13	63	1	15.87
<i>Orthopodomyia signifera</i>	2	3		
<i>Psorophora columbiae</i>	1	1		
Cape May	732	8655	3	0.35
<i>Aedes albopictus</i>	43	124		
<i>Aedes canadensis canadensis</i>	4	71		
<i>Aedes cantator</i>	8	82		
<i>Aedes japonicus</i>	15	26		
<i>Aedes sollicitans</i>	11	397		
<i>Aedes taeniorhynchus</i>	4	80		

<i>Aedes triseriatus</i>	3	5		
<i>Aedes vexans</i>	3	14		
<i>Anopheles bradleyi</i>	23	609		
<i>Anopheles punctipennis</i>	10	105		
<i>Anopheles quadrimaculatus</i>	27	673		
<i>Coquillettidia perturbans</i>	4	28		
<i>Culex erraticus</i>	15	285		
<i>Culex pipiens</i>	174	2367	1	0.42
<i>Culex restuans</i>	166	1659	1	0.60
<i>Culex salinarius</i>	12	426		
<i>Culex sp.</i>	69	719	1	1.39
<i>Culex territans</i>	7	21		
<i>Culiseta melanura</i>	78	622		
Cumberland	284	2351	8	3.40
<i>Aedes albopictus</i>	59	204		
<i>Aedes japonicus</i>	19	41		
<i>Aedes sticticus</i>	2	6		
<i>Aedes triseriatus</i>	11	18		
<i>Aedes vexans</i>	7	66		
<i>Anopheles bradleyi</i>	2	2		
<i>Anopheles punctipennis</i>	5	14		
<i>Anopheles quadrimaculatus</i>	2	4		
<i>Coquillettidia perturbans</i>	1	1		
<i>Culex erraticus</i>	26	83		
<i>Culex pipiens</i>	40	302	4	13.25
<i>Culex restuans</i>	15	105	1	9.52
<i>Culex salinarius</i>	3	3		
<i>Culex spp.</i>	77	1387	3	2.16
<i>Culex territans</i>	2	5		
<i>Culiseta melanura</i>	7	100		
<i>Psorophora columbiae</i>	1	2		
<i>Psorophora ferox</i>	1	1		
<i>Psorophora howardii</i>	1	1		
<i>Uranotaenia sapphirina</i>	3	6		
Essex	328	3915	34	8.68
<i>Aedes albopictus</i>	89	538		
<i>Aedes japonicus</i>	29	127	1	7.87
<i>Aedes triseriatus</i>	21	36		
<i>Aedes trivittatus</i>	1	1		
<i>Aedes vexans</i>	12	40		
<i>Anopheles punctipennis</i>	6	6		
<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>	155	3054	32	10.48
<i>Culex territans</i>	6	10		
<i>Psorophora columbiae</i>	1	1		

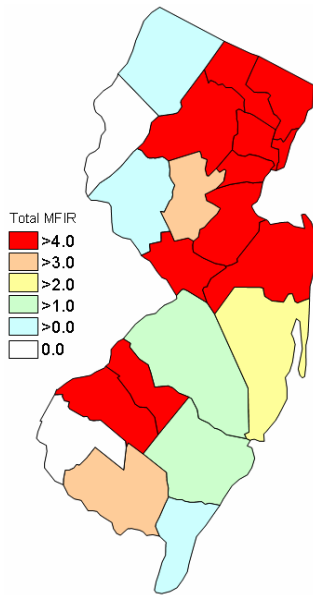
Gloucester	680	12832	56	4.36
<i>Aedes abserratus</i>	1	9		
<i>Aedes albopictus</i>	69	490		
<i>Aedes canadensis canadensis</i>	7	245		
<i>Aedes communis</i>	1	1		
<i>Aedes japonicus</i>	36	142		
<i>Aedes sollicitans</i>	1	2		
<i>Aedes thibaulti</i>	1	5		
<i>Aedes triseriatus</i>	11	21		
<i>Aedes vexans</i>	9	269		
<i>Anopheles bradleyi</i>	4	86		
<i>Anopheles earlei</i>	1	1		
<i>Anopheles punctipennis</i>	26	86		
<i>Anopheles quadrimaculatus</i>	27	55		
<i>Coquillettidia perturbans</i>	8	38		
<i>Culex erraticus</i>	7	47		
<i>Culex pipiens</i>	371	10308	55	5.34
<i>Culex restuans</i>	19	591		
<i>Culex salinarius</i>	6	34		
<i>Culex territans</i>	11	87		
<i>Culiseta melanura</i>	52	163	1	6.13
<i>Psorophora columbiae</i>	4	113		
<i>Psorophora ferox</i>	3	9		
<i>Uranotaenia sapphirina</i>	5	30		
Hudson	221	10109	63	6.23
<i>Culex spp.</i>	221	10109	63	6.23
Hunterdon	309	13872	7	0.50
<i>Aedes albopictus</i>	5	58		
<i>Aedes japonicus</i>	1	6		
<i>Aedes trivittatus</i>	1	18		
<i>Aedes vexans</i>	3	105		
<i>Anopheles punctipennis</i>	1	50		
<i>Anopheles quadrimaculatus</i>	2	25		
<i>Culex erraticus</i>	1	10		
<i>Culex spp.</i>	294	13599	7	0.51
<i>Culiseta inornata</i>	1	1		
Mercer	562	5718	44	7.69
<i>Aedes albopictus</i>	236	2798	2	0.71
<i>Aedes atropalpus</i>	1	1		
<i>Aedes japonicus</i>	68	115		
<i>Aedes stimulans</i>	1	1		
<i>Aedes triseriatus</i>	27	52		
<i>Aedes vexans</i>	6	16		
<i>Anopheles punctipennis</i>	1	1		
<i>Culex erraticus</i>	17	58		
<i>Culex pipiens</i>	114	1983	35	17.65
<i>Culex restuans</i>	64	259	3	11.58
<i>Culex salinarius</i>	13	162		
<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		345	8040	44	5.47
	<i>Aedes albopictus</i>	34	386		
	<i>Aedes japonicus</i>	12	57		
	<i>Aedes triseriatus</i>	5	22		
	<i>Aedes trivittatus</i>	1	1		
	<i>Aedes vexans</i>	21	512		
	<i>Culex erraticus</i>	1	1		
	<i>Culex pipiens</i>	23	215	1	4.65
	<i>Culex restuans</i>	11	137		
	<i>Culex salinarius</i>	14	324	1	3.09
	<i>Culex spp.</i>	212	6315	42	6.65
	<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		630	5767	26	4.51
	<i>Aedes albopictus</i>	115	670		
	<i>Aedes canadensis canadensis</i>	3	18		
	<i>Aedes cantator</i>	4	5		
	<i>Aedes japonicus</i>	27	71		
	<i>Aedes sollicitans</i>	13	46		
	<i>Aedes taeniorhynchus</i>	7	30		
	<i>Aedes triseriatus</i>	11	21		
	<i>Aedes trivittatus</i>	3	4		
	<i>Aedes vexans</i>	34	154		
	<i>Anopheles barberi</i>	1	1		
	<i>Anopheles crucians</i>	1	1		
	<i>Anopheles punctipennis</i>	20	45		
	<i>Anopheles quadrimaculatus</i>	11	22		
	<i>Coquillettidia perturbans</i>	4	5		
	<i>Culex erraticus</i>	12	97		
	<i>Culex pipiens</i>	64	591	1	1.69
	<i>Culex restuans</i>	45	258		
	<i>Culex salinarius</i>	17	51		
	<i>Culex spp.</i>	158	3280	25	7.62
	<i>Culex territans</i>	16	119		
	<i>Culiseta melanura</i>	60	270		
	<i>Psorophora ferox</i>	1	1		
	<i>Uranotaenia sapphirina</i>	3	7		
Morris		231	6904	31	4.49
	<i>Aedes albopictus</i>	1	3		
	<i>Aedes japonicus</i>	10	41		
	<i>Aedes triseriatus</i>	2	4		
	<i>Anopheles punctipennis</i>	1	4		
	<i>Coquillettidia perturbans</i>	1	50		
	<i>Culex spp.</i>	216	6802	31	4.56
Ocean		416	6037	13	2.15
	<i>Aedes albopictus</i>	108	1409	1	0.71

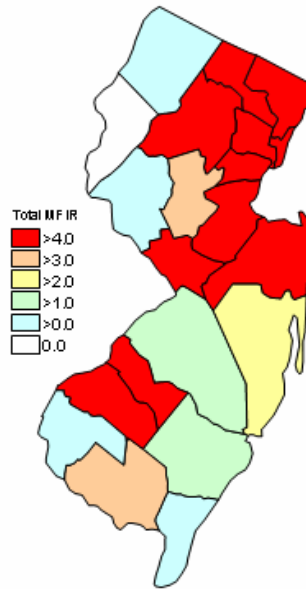
<i>Aedes atlanticus</i>	1	1		
<i>Aedes canadensis canadensis</i>	9	85		
<i>Aedes cantator</i>	3	25		
<i>Aedes japonicus</i>	27	55		
<i>Aedes sollicitans</i>	9	117		
<i>Aedes triseriatus</i>	11	23		
<i>Aedes trivittatus</i>	2	2		
<i>Aedes vexans</i>	24	111		
<i>Anopheles bradleyi</i>	3	3		
<i>Anopheles punctipennis</i>	6	10		
<i>Anopheles quadrimaculatus</i>	6	21		
<i>Coquillettidia perturbans</i>	5	16		
<i>Culex pipiens</i>	11	251	1	3.98
<i>Culex restuans</i>	25	255		
<i>Culex salinarius</i>	17	121		
<i>Culex sp.</i>	122	3391	11	3.24
<i>Culex territans</i>	2	2		
<i>Culiseta melanura</i>	15	94		
<i>Psorophora ferox</i>	9	22		
<i>Uranotaenia sapphirina</i>	1	23		
Passaic	121	3859	32	8.29
<i>Aedes albopictus</i>	17	97		
<i>Aedes japonicus</i>	8	89		
<i>Aedes triseriatus</i>	1	2		
<i>Anopheles punctipennis</i>	1	5		
<i>Culex spp.</i>	94	3666	32	8.73
Salem	467	5533	1	0.18
<i>Aedes albopictus</i>	38	131		
<i>Aedes atlanticus</i>	1	4		
<i>Aedes canadensis canadensis</i>	7	181		
<i>Aedes cantator</i>	6	78		
<i>Aedes grossbecki</i>	2	3		
<i>Aedes japonicus</i>	14	33		
<i>Aedes sollicitans</i>	1	1		
<i>Aedes sticticus</i>	4	81		
<i>Aedes triseriatus</i>	19	38		
<i>Aedes vexans</i>	23	877		
<i>Anopheles bradleyi</i>	20	238		
<i>Anopheles punctipennis</i>	33	473		
<i>Anopheles quadrimaculatus</i>	51	1164		
<i>Coquillettidia perturbans</i>	9	93		
<i>Culex erraticus</i>	53	424		
<i>Culex pipiens</i>	19	69		
<i>Culex restuans</i>	13	38		
<i>Culex salinarius</i>	23	528		
<i>Culex spp.</i>	37	235		
<i>Culex territans</i>	10	42		
<i>Culiseta melanura</i>	63	557	1	1.80
<i>Psorophora columbiae</i>	4	27		
<i>Psorophora ferox</i>	6	83		
<i>Psorophora howardii</i>	1	4		
<i>Uranotaenia sapphirina</i>	10	131		
Somerset	314	4183	14	3.35

<i>Aedes albopictus</i>	19	65		
<i>Aedes canadensis canadensis</i>	1	2		
<i>Aedes japonicus</i>	52	329		
<i>Aedes triseriatus</i>	39	155		
<i>Aedes trivittatus</i>	6	105		
<i>Aedes vexans</i>	7	123		
<i>Anopheles barberi</i>	1	1		
<i>Anopheles punctipennis</i>	10	11		
<i>Anopheles quadrimaculatus</i>	7	7		
<i>Culex pipiens</i>	2	22		
<i>Culex restuans</i>	2	19		
<i>Culex spp.</i>	160	3303	14	4.24
<i>Orthopodomyia signifera</i>	2	2		
<i>Psorophora ferox</i>	5	38		
<i>Uranotaenia sapphirina</i>	1	1		
Sussex	463	12304	7	0.57
<i>Aedes canadensis canadensis</i>	2	11		
<i>Aedes cinereus</i>	2	2		
<i>Aedes japonicus</i>	104	677		
<i>Aedes sticticus</i>	1	1		
<i>Aedes triseriatus</i>	24	141		
<i>Aedes trivittatus</i>	4	32		
<i>Aedes vexans</i>	6	48		
<i>Anopheles punctipennis</i>	3	8		
<i>Anopheles quadrimaculatus</i>	1	1		
<i>Coquillettidia perturbans</i>	10	219		
<i>Culex pipiens</i>	9	57		
<i>Culex restuans</i>	13	146		
<i>Culex salinarius</i>	2	5		
<i>Culex spp.</i>	279	10926	7	0.64
<i>Psorophora ferox</i>	1	1		
<i>Uranotaenia sapphirina</i>	2	29		
Union	248	4739	35	7.39
<i>Aedes albopictus</i>	75	621		
<i>Aedes japonicus</i>	9	14		
<i>Aedes sollicitans</i>	2	3		
<i>Aedes triseriatus</i>	3	3		
<i>Aedes vexans</i>	19	88		
<i>Anopheles punctipennis</i>	3	5		
<i>Anopheles quadrimaculatus</i>	1	1		
<i>Culex pipiens</i>	4	23	1	43.48
<i>Culex restuans</i>	7	29		
<i>Culex salinarius</i>	2	3		
<i>Culex spp.</i>	117	3940	34	8.63
<i>Psorophora columbiae</i>	5	8		
<i>Psorophora ferox</i>	1	1		
Warren	238	9419		

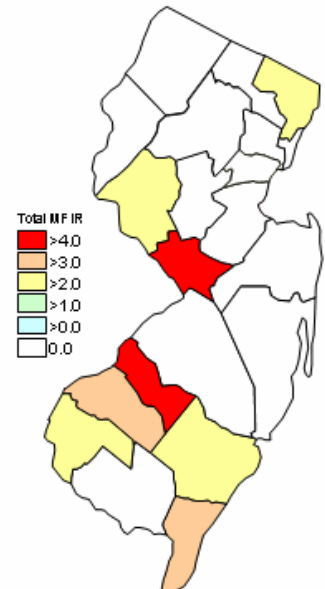
<i>Aedes japonicus</i>	2	49		
<i>Culex spp.</i>	236	9370		
Grand Total	8357	169527	603	3.56



Cumulative activity to last week



Cumulative activity to this week



Recent Activity 9/28 to 10/13)

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 21 October 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