RUTGERS
New Jersey Agricultural Experiment Station

VECTOR SURVEILLANCE IN NEW JERSEY
EEE, WNV and SLE
CDC WEEK 34: August 23 to August 29, 2009

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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	6.1	1.72	310	27	2	6.45
Corbin City (Atlantic County)	Coastal	1.6	1.28	114	16	1	8.77
Dennisville (Cape May County)	Coastal	7.2	1.22	1423	46	13	9.14
Winslow † (Camden County)	Inland	No history	4.10	689	16	10	14.51
Centerton (Salem County)	Inland	4.4	Collected but will be submitted next week.	258	27	0	
Turkey Swamp (Monmouth County)	Inland	1.6	2.96	815	92	4	4.91
Glassboro (Gloucester County)	Inland	No history	0 (treated)	469	27	2	4.26

*Including trial run last week in May. † Date of site change-over occurred during Week 30.

Remarks: Activity of eastern equine encephalitis virus has increased in southern New Jersey. The total number of positive EEE pools of mosquitoes is at 44. Most positive pools remain in the enzootic vector, *Culiseta melanura.* Positive pools of *Cs. melanura* from the traditional resting box sites have increased to 32 from 21 since last week, with several positive pools developing in both Dennisville and Winslow. To date, 251 pools from 4078 *Cs. melanura* mosquitoes have been sent for EEE testing from the seven resting box collections.

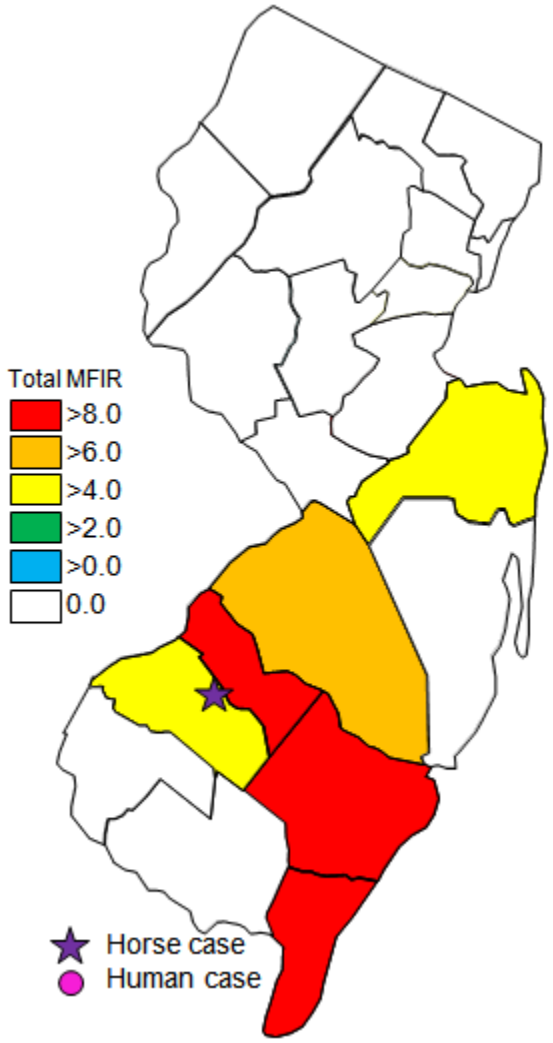
Positive species other than *Cs. melanura*	County(s)	Total Pools	Total Mosquitoes	Total Positive Pools	MFIR
Mixed *Culex* species	Atlantic	141	6197	2	0.32
Culex salinarius	Burlington	71	2810	1	0.36

Additional Pools: When positive EEE pools are found, southern NJ counties increase their surveillance activities aimed toward EEE detection. Resting boxes outside of the traditional resting box sites account for three additional *Cs. melanura* positive pools, Gravid traps for two *Cs. melanura* pools and CO_2 traps for four additional *Cs. melanura* positive pools. *Culex* pools account for three positive (table above, from previous week). Other species tested for EEE include *Aedes abserratus,*: *Ae. albopictus, Ae. atlanticus, Ae. atropalpus, Ae. canadensis, Ae. cantator, Ae. cinereus, Ae. japonicas, Ae. sollicitans, Ae. sticticus, Ae. taeniorhynchus, Ae. thibaulti, Ae. triseriatus, Ae. trivittatus, Ae. vexans, Anopheles barberi, An. Bradleyi,*

An. crucians, An. punctipennis, An. quadrimaculatus, Coquillettidia perturbans, Culex erraticus, Cx. pipiens, Cx. restuans, Cx. salinarius, Mixed *Culex* pools, *Cx. territans Culiseta inornata Psorophora ciliate, Ps columbiae, Ps. ferox and Uranotaenia sappharina.*

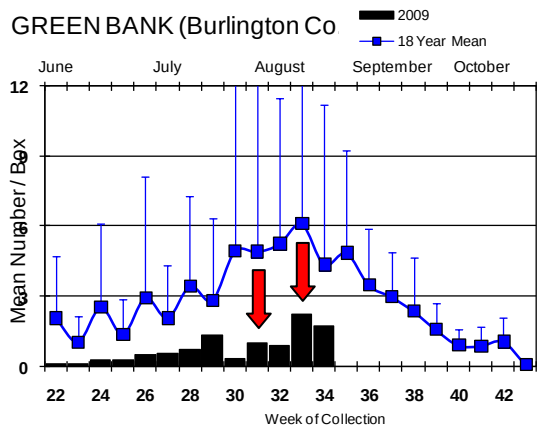
The distribution of positive EEE pools indicates a thorough dissemination of the virus in southern New Jersey. Bridge vector considerations warrant due diligence and control.

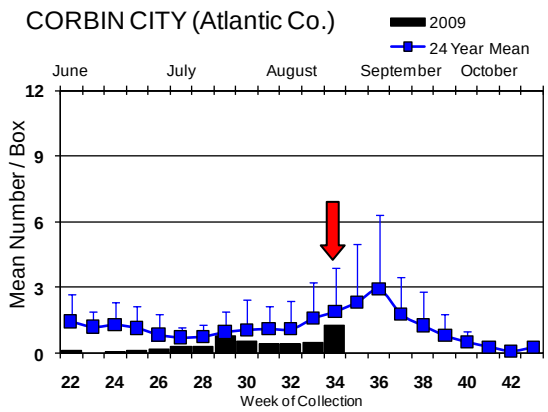
Horse and Humans: One horse (no travel history) was reported with both eastern equine and West Nile virus infections with onset on 18 Aug in Gloucester County. The fate of this horse reinforces the necessity of maintaining a vaccination schedule for arboviruses: For vaccination schedules recommended by the American Association of Equine Practices, see:http://www.aaep.org/vaccination_guidelines.htm

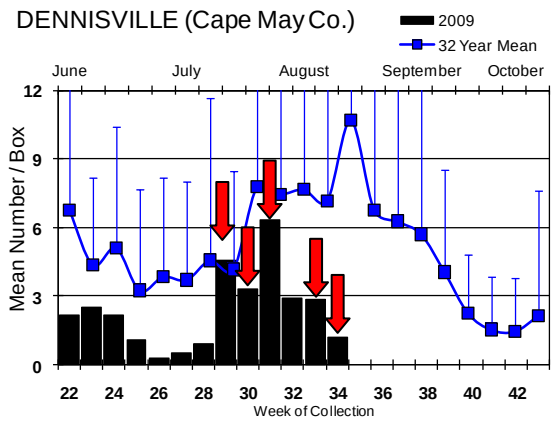


Culiseta melanura Population Graphs

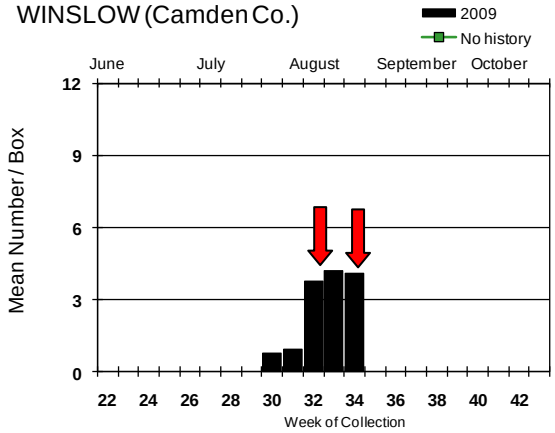
Coastal

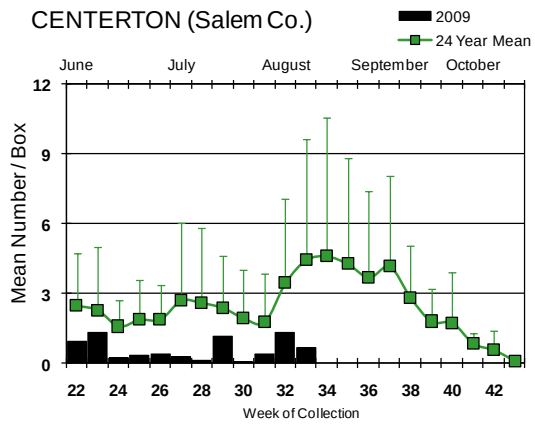


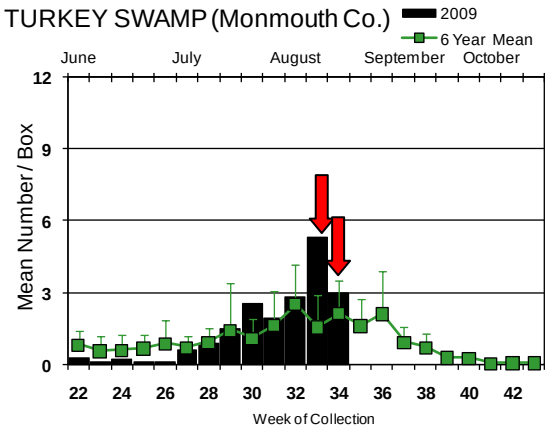




Inland

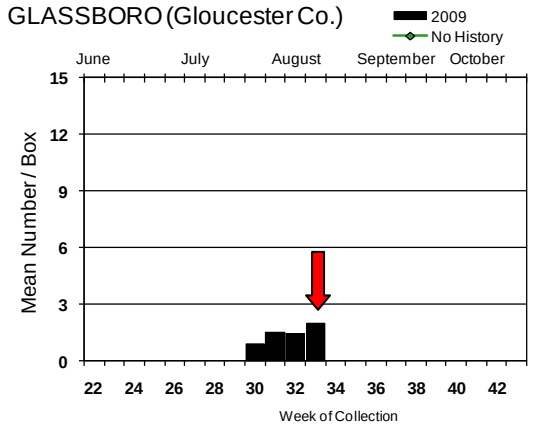






The Turkey Swamp population of *Culiseta melanura* remained with higher numbers than historical data and the additional detection of EEE. Detections also occurred at Corbin City, Dennisville and Winslow. One site, Glassboro, did not report any *Cs. melanura.*

= positive pool(s) detected.



EEE in US (2009 cumulative cases): (Red = new reported cases occurring)

- equine: 15(AL) 64(FL) 39(GA) 18(LA) 15(MA) 5(ME) 1(MO) 34(MS) 12(NC) 1alpaca(NH) 1(NJ) 2(SC) 3(TX) 7(VA)
- mosquito: 8(CT) 1(FL) 1(LA) 7(MA) 13(NH) 44(NJ) 5(NY) 131(VA)
- sentinel: 2(AL) 150/75wild(FL) 24(NC) 52(VA)
- human: 1(LA)

West Nile Virus

West Nile in US (2009 cumulative cases): Single black values indicate no change from previous week. Black values / red values equals previous week/New totals.
Note: Some data reported by states are provisional and are subject to change. Sources for this table can be found here.

	Birds	Mosquito Pools	Sentinels	Horses	Humans
Alabama			1/2	1	
Alaska					
Arizona	1	68/70	4	0	12/13
Arkansas					1
California	329/385	649/744	98/139	4	10/26
Colorado		51/65		7	14/20
Connecticut	0	7/13	0	0	0
Delaware					
DC					
Florida	2 (flavi)		4	1	0
Georgia	0	4		2	0
Hawaii					
Idaho		9 co.		4	8/13
Illinois	8/13	107/247	0	0	1
Indiana	2	36/51		0	1
Iowa		5	3	1	1
Kansas		3+			
Kentucky				2/3	
Louisiana		13/37		2	8
Maine					
Maryland	0	5		0	0
Mass.		5/10		0	0
Michigan		1	0	0	0
Minnesota	1	3/4			1
Mississippi		6/7		3	21/30
Missouri		238/293 flavi		1	1
Montana		4		6/8	3
Nebraska	2/10	15/22		2	8

	Birds	Mosquito Pools	Sentinels	Horses	Humans
Nevada		4+			5/12
New Hampshire		0		0	0
New Jersey	3/5	84/140	0	2	0
New Mexico		+		1	2/3
New York	7	34/43	0	0	1
North Carolina					
North Dakota	0	0		0	0
Ohio	0	44/49		0	1
Oklahoma	0	0	0	0	1
Oregon	6/12	154/193	0	2/3	6
Pennsylvania	2/3	57/131	0	0	1
Rhode Island					
South Carolina	2	0			1
South Dakota	0	17/18	0	1/3	9/11
Tennessee	1	207/274	0	0	1
Texas	6/7	187/250	0	2	12/14
Utah		183/225	1	1/5	0
Vermont	0	1	0	0	0
Virginia		26	1/4		0
Washington	8/12	214/326	0	20/32	1
West Virginia	1	7/72	0	1	0
Wisconsin	2	0	0	0	0
Wyoming		17/21			2/3

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 2 September 2009

Species	Pools	Mosquitoes	Positives	MFIR
Aedes abserratus	1	1		
Aedes albopictus	383	2714		
Aedes atlanticus	5	8		
Aedes atropalpus	1	15		
Aedes canadensis canadensis	90	2183		
Aedes cantator	51	455		
Aedes cinereus	2	7		
Aedes grossbecki	3	35		
Aedes japonicus	566	3928		
Aedes sollicitans	26	215		
Aedes sticticus	12	115		
Aedes taeniorhynchus	14	132		
Aedes thibaulti	6	9		
Aedes triseriatus	175	640		
Aedes trivittatus	29	420		
Aedes vexans	124	1845		
Anopheles barberi	4	15		
Anopheles bradleyi	32	703	1	1.422
Anopheles crucians	3	26		
Anopheles punctipennis	116	409		
Anopheles quadrimaculatus	98	1374		
Anopheles walkeri	1	19		
Coquillettidia perturbans	52	559		
Culex erraticus	47	2039		
Culex pipiens	755	17762	3	0.169
Culex restuans	506	6239	1	0.160
Culex salinarius	120	3269		
Culex spp.	2764	118064	134	1.135
Culex territans	29	86		
Culiseta inornata	1	2		
Culiseta melanura	392	4785	1	0.209
Culiseta morsitans	1	3		
Orthopodomyia signifera	2	2		
Psorophora ciliata	2	4		
Psorophora columbiae	4	10		
Psorophora ferox	23	254		
Uranotaenia sapphirina	1	14		
State Total	**6441**	**168360**	**140**	**0.832**

Remarks: The number of pools positive for West Nile virus has increased from 84 to 140. Infected pools continue to be primarily from ornithophilic species: *Culex and Culiseta*. However, two horse cases have occurred (see below) an indication that some crossover to bridge vector or changes in ornithophilic bloodmeal diet has occurred. Although this year's number of positive pools has been significantly fewer than last year, both seasons have picked up from the previous week.

Humans, Horses and Wild Birds: No humans have been reported positive for WNV by PHEL. 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

Two confirmed horse cases for WNV infection have occurred (one in Gloucester and one in Salem counties). The Gloucester horse was also positive for EEE. Both horses appear to have had an uncertain vaccination history. Three positive Blue Jays (*Cyanocitta cristata*) in Ocean County, one American Crow (*Corvus brachyrhynchos*) in Monmouth County and one unknown crow species in Burlington County have been detected with WNV infection to date.

2009 Positive Mosquito pools to date / Total Mosquito Pools Submitted	This time last year* * 2008 started later (at least one month) last year than in 2009
140 / 6441 (2.2%)	448 / 5537 (8.1%)
2009 Positive Birds to date / Total Birds Submitted	This time last year* * 2008 started later (at least one month) last year than in 2009
5 / 77 (6.5%)	30 / 131 (22.9%)

WNV Results by County through 2 September 2009

County	Species	Pools	Mosquitoes	Positives	MFIR
Atlantic		**180**	**4649**	**1**	**0.215**
	Aedes albopictus	12	229		
	Aedes canadensis canadensis	4	38		
	Aedes cantator	7	146		
	Aedes grossbecki	1	8		
	Aedes japonicus	7	67		
	Aedes sollicitans	4	16		
	Aedes sticticus	2	18		
	Aedes taeniorhynchus	5	35		
	Aedes thibaulti	3	3		
	Aedes triseriatus	4	11		
	Aedes trivittatus	1	4		
	Aedes vexans	14	357		
	Anopheles bradleyi	5	50	1	20.000
	Anopheles punctipennis	4	7		
	Anopheles quadrimaculatus	4	8		
	Culex erraticus	1	3		
	Culex restuans	2	5		
	Culex salinarius	2	37		
	Culex spp.	77	3422		
	Culex territans	1	1		
	Culiseta melanura	19	182		
	Psorophora columbiae	1	2		
Bergen		**143**	**10262**	**37**	**3.606**
	Aedes albopictus	1	6		
	Aedes japonicus	4	16		
	Culex spp.	138	10240	37	3.613
Burlington		**386**	**10637**	**19**	**1.786**
	Aedes abserratus	1	1		
	Aedes albopictus	37	275		
	Aedes atlanticus	1	1		
	Aedes atropalpus	1	15		
	Aedes canadensis canadensis	20	958		
	Aedes cantator	6	67		
	Aedes cinereus	1	6		

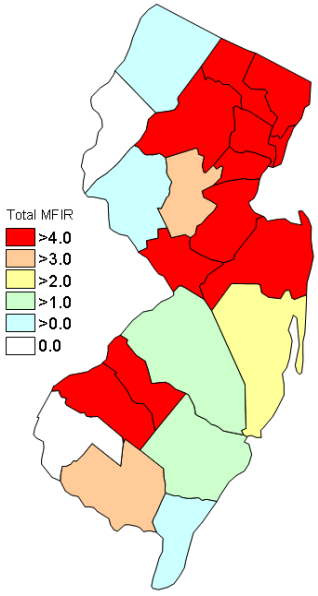
	Aedes grossbecki	1	26		
	Aedes japonicus	29	153		
	Aedes sollicitans	4	61		
	Aedes sticticus	2	85		
	Aedes taeniorhynchus	4	57		
	Aedes triseriatus	13	75		
	Aedes trivittatus	2	9		
	Aedes vexans	25	869		
	Anopheles barberi	1	1		
	Anopheles bradleyi	8	432		
	Anopheles crucians	1	5		
	Anopheles punctipennis	9	29		
	Anopheles quadrimaculatus	4	12		
	Coquillettidia perturbans	17	255		
	Culex erraticus	2	10		
	Culex pipiens	1	75		
	Culex restuans	2	4		
	Culex salinarius	10	378		
	Culex spp.	113	5099	19	3.726
	Culex territans	3	13		
	Culiseta inornata	1	2		
	Culiseta melanura	62	1603		
	Psorophora ciliate	1	1		
	Psorophora columbiae	1	4		
	Psorophora ferox	2	42		
	Uranotaenia sapphirina	1	14		
Camden		**219**	**6398**	**13**	**2.032**
	Aedes albopictus	19	84		
	Aedes japonicus	28	68		
	Aedes thibaulti	1	1		
	Aedes triseriatus	4	4		
	Aedes trivittatus	2	2		
	Aedes vexans	1	1		
	Anopheles punctipennis	3	8		
	Anopheles quadrimaculatus	3	4		
	Culex pipiens	3	107		
	Culex restuans	2	2		
	Culex spp.	146	6103	13	2.130
	Culex territans	1	1		
	Culiseta melanura	4	11		
	Orthopodomyia signifera	2	2		
Cape May		**1573**	**27047**	**5**	**0.185**
	Aedes albopictus	64	239		
	Aedes canadensis canadensis	5	51		
	Aedes cantator	6	20		
	Aedes japonicus	156	618		
	Aedes sollicitans	9	109		
	Aedes taeniorhynchus	3	20		
	Aedes triseriatus	44	147		
	Aedes vexans	1	1		
	Anopheles bradleyi	10	127		

	Anopheles punctipennis	5	19		
	Anopheles quadrimaculatus	30	1059		
	Coquillettidia perturbans	2	27		
	Culex erraticus	29	1627		
	Culex pipiens	359	6819	2	0.293
	Culex restuans	311	3944	1	0.254
	Culex salinarius	69	2556		
	Culex spp.	353	8251	1	0.121
	Culex territans	7	29		
	Culiseta melanura	110	1384	1	0.723
Cumberland		**66**	**1548**		
	Aedes albopictus	3	16		
	Aedes cantator	1	15		
	Aedes japonicas	8	56		
	Anopheles punctipennis	1	1		
	Anopheles quadrimaculatus	2	5		
	Culex erraticus	1	9		
	Culex pipiens	6	150		
	Culex restuans	2	6		
	Culex spp.	36	1227		
	Culex territans	1	1		
	Culiseta melanura	5	62		
Essex		**232**	**3582**	**1**	**0.279**
	Aedes albopictus	17	108		
	Aedes japonicus	23	146		
	Aedes sticticus	1	1		
	Aedes triseriatus	14	27		
	Aedes trivittatus	4	28		
	Aedes vexans	15	60		
	Anopheles punctipennis	9	16		
	Anopheles quadrimaculatus	6	13		
	Coquillettidia perturbans	4	6		
	Culex spp.	133	3130	1	0.319
	Psorophora ciliata	1	3		
	Psorophora ferox	5	44		
Gloucester		**507**	**11723**	**1**	**0.085**
	Aedes albopictus	41	492		
	Aedes atlanticus	1	1		
	Aedes canadensis canadensis	2	2		
	Aedes japonicus	47	447		
	Aedes thibaulti	1	4		
	Aedes triseriatus	4	18		
	Aedes trivittatus	1	75		
	Aedes vexans	10	77		
	Anopheles barberi	2	13		
	Anopheles crucians	2	21		
	Anopheles punctipennis	25	143		
	Anopheles quadrimaculatus	28	99		
	Anopheles walkeri	1	19		
	Coquillettidia perturbans	3	12		

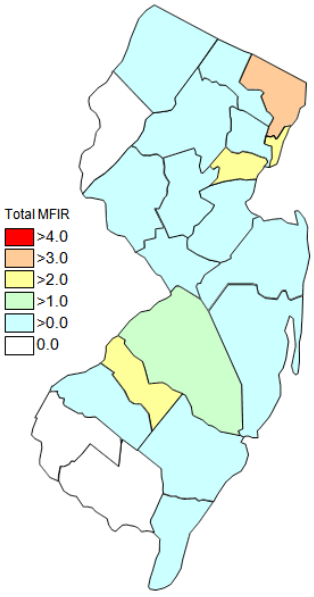
	Culex pipiens	265	9757	1	0.102
	Culex restuans	20	142		
	Culex salinarius	1	1		
	Culex territans	4	9		
	Culiseta melanura	49	391		
Hudson		**162**	**8850**	**20**	**2.260**
	Culex spp.	162	8850	20	2.260
Hunterdon		**202**	**10026**	**4**	**0.399**
	Aedes albopictus	1	45		
	Culex spp.	201	9981	4	0.401
Mercer		**471**	**8063**	**3**	**0.372**
	Aedes albopictus	52	153		
	Aedes japonicus	69	176		
	Aedes triseriatus	8	12		
	Culex erraticus	1	1		
	Culex pipiens	97	783		
	Culex restuans	128	1820		
	Culex salinarius	6	26		
	Culex spp.	110	5092	3	0.589
Middlesex		**276**	**13215**	**10**	**0.757**
	Aedes albopictus	9	81		
	Aedes japonicus	22	319		
	Aedes triseriatus	1	6		
	Culex spp.	244	12809	10	0.781
Monmouth		**458**	**4724**	**1**	**0.212**
	Aedes albopictus	39	219		
	Aedes canadensis canadensis	19	168		
	Aedes cantator	11	52		
	Aedes japonicus	32	224		
	Aedes sollicitans	2	3		
	Aedes thibaulti	1	1		
	Aedes triseriatus	21	102		
	Aedes trivittatus	6	6		
	Aedes vexans	14	76		
	Anopheles barberi	1	1		
	Anopheles punctipennis	19	68		
	Anopheles quadrimaculatus	7	14		
	Coquillettidia perturbans	6	15		
	Culex erraticus	3	38		
	Culex pipiens	15	24		
	Culex restuans	24	42		
	Culex spp.	132	2804	1	0.357
	Culex territans	10	30		
	Culiseta melanura	92	815		
	Psorophora columbiae	1	3		
	Psorophora ferox	3	19		
Morris		**154**	**6624**	**3**	**0.453**

	Aedes japonicus	21	340		
	Aedes triseriatus	3	26		
	Culex spp.	130	6258	3	0.479
Ocean		**453**	**9154**	**3**	**0.328**
	Aedes albopictus	53	661		
	Aedes atlanticus	3	6		
	Aedes canadensis canadensis	37	938		
	Aedes cantator	20	155		
	Aedes cinereus	1	1		
	Aedes grossbecki	1	1		
	Aedes japonicus	49	347		
	Aedes sollicitans	6	25		
	Aedes sticticus	6	10		
	Aedes taeniorhynchus	2	20		
	Aedes triseriatus	27	91		
	Aedes trivittatus	5	15		
	Aedes vexans	35	181		
	Anopheles bradleyi	9	94		
	Anopheles punctipennis	17	25		
	Anopheles quadrimaculatus	1	1		
	Coquillettidia perturbans	9	17		
	Culex restuans	5	5		
	Culex salinarius	17	74		
	Culex spp.	123	6363	3	0.471
	Culiseta melanura	17	51		
	Psorophora columbiae	1	1		
	Psorophora ferox	9	72		
Passaic		**86**	**1764**	**1**	**0.567**
	Aedes albopictus	5	36		
	Aedes canadensis canadensis	1	20		
	Aedes japonicus	18	295		
	Aedes triseriatus	6	29		
	Anopheles punctipennis	1	2		
	Culex spp.	55	1382	1	0.724
Salem		**134**	**3417**		
	Aedes albopictus	7	30		
	Aedes japonicus	6	34		
	Aedes triseriatus	1	1		
	Aedes vexans	2	150		
	Anopheles punctipennis	11	57		
	Anopheles quadrimaculatus	10	152		
	Coquillettidia perturbans	4	128		
	Culex erraticus	10	351		
	Culex restuans	4	79		
	Culex salinarius	3	153		
	Culex spp.	42	2004		
	Culex territans	2	2		
	Culiseta melanura	32	276		
Somerset		**210**	**4914**	**3**	**0.611**

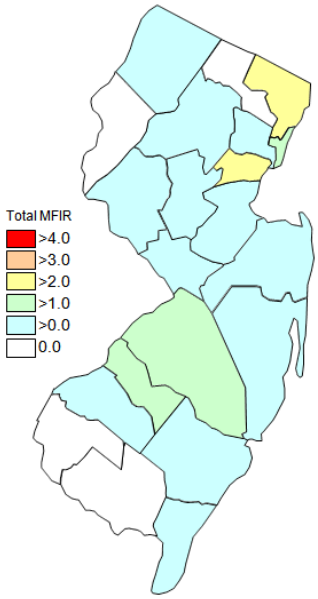
	Aedes albopictus	12	37		
	Aedes canadensis canadensis	2	8		
	Aedes japonicus	28	455		
	Aedes sticticus	1	1		
	Aedes triseriatus	23	89		
	Aedes trivittatus	8	281		
	Aedes vexans	1	5		
	Anopheles punctipennis	10	28		
	Anopheles quadrimaculatus	3	7		
	Coquillettidia perturbans	3	4		
	Culex spp.	118	3996	3	0.751
	Psorophora ferox	1	3		
Sussex		**206**	**6144**	**3**	**0.488**
	Aedes japonicus	3	3		
	Coquillettidia perturbans	3	94		
	Culex pipiens	9	47		
	Culex restuans	6	190		
	Culex salinarius	12	44		
	Culex spp.	170	5753	3	0.521
	Culiseta melanura	2	10		
	Culiseta morsitans	1	3		
Union		**131**	**4145**	**12**	**2.895**
	Aedes albopictus	12	48		
	Aedes japonicus	15	119		
	Aedes sollicitans	1	1		
	Aedes triseriatus	2	2		
	Aedes vexans	6	68		
	Anopheles punctipennis	2	6		
	Coquillettidia perturbans	1	1		
	Culex spp.	89	3826	12	3.136
	Psorophora ferox	3	74		
Warren		**192**	**11474**		
	Culex spp.	192	11474		
Grand Total		**6441**	**168,360**	**140**	**0.832**



Cumulative activity in 2008



Activity this year to 2 Sept 2009



Activity last week, 2009.

Saint Louis Encephalitis (SLE) through 2 September 2009.

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.

County	Species	Pools	Mosquitoes	Positives	MFIR
Burlington		**330**	**9246**		
	Aedes abserratus	1	1		
	Aedes albopictus	37	275		
	Aedes atlanticus	1	1		
	Aedes atropalpus	1	15		
	Aedes canadensis canadensis	8	217		
	Aedes cantator	5	66		
	Aedes cinereus	1	6		
	Aedes japonicus	28	152		
	Aedes sollicitans	4	61		
	Aedes sticticus	1	41		
	Aedes taeniorhynchus	4	57		
	Aedes triseriatus	12	74		
	Aedes trivittatus	2	9		
	Aedes vexans	20	625		
	Anopheles barberi	1	1		
	Anopheles bradleyi	8	432		
	Anopheles crucians	1	5		
	Anopheles punctipennis	7	23		
	Anopheles quadrimaculatus	3	11		
	Coquillettidia perturbans	17	255		
	Culex erraticus	2	10		
	Culex pipiens	1	75		
	Culex restuans	1	3		
	Culex salinarius	10	378		
	Culex spp.	111	5090		
	Culex territans	2	7		
	Culiseta inornata	1	2		
	Culiseta melanura	35	1293		
	Psorophora ciliate	1	1		
	Psorophora columbiae	1	4		
	Psorophora ferox	2	42		
	Uranotaenia sapphirina	1	14		
Camden		**138**	**4211**		
	Aedes albopictus	17	76		
	Aedes japonicus	16	45		
	Aedes triseriatus	4	4		
	Aedes vexans	1	1		
	Culex pipiens	2	95		
	Culex spp.	96	3988		
	Orthopodomyia signifera	2	2		
Cape May		**736**	**15069**		
	Aedes cantator	1	2		

	Aedes japonicus	2	22		
	Aedes triseriatus	2	11		
	Anopheles quadrimaculatus	1	1		
	Coquillettidia perturbans	1	19		
	Culex erraticus	2	78		
	Culex pipiens	256	5359		
	Culex restuans	145	1618		
	Culex salinarius	8	73		
	Culex spp.	314	7874		
	Culiseta melanura	4	12		
Essex		**190**	**3390**		
	Aedes albopictus	17	108		
	Aedes japonicus	17	107		
	Aedes sticticus	1	1		
	Aedes triseriatus	9	14		
	Aedes vexans	9	25		
	Anopheles punctipennis	1	1		
	Coquillettidia perturbans	1	1		
	Culex spp.	133	3130		
	Psorophora ferox	2	3		
Hunterdon		**50**	**2500**		
	Culex spp.	50	2500		
Mercer		**453**	**7961**		
	Aedes albopictus	52	153		
	Aedes japonicus	65	172		
	Aedes triseriatus	8	12		
	Culex pipiens	94	772		
	Culex restuans	124	1777		
	Culex salinarius	4	24		
	Culex spp.	106	5051		
Ocean		**2**	**3**		
	Aedes albopictus	1	1		
	Culex spp.	1	2		
Somerset		**22**	**557**		
	Aedes albopictus	1	4		
	Culex spp.	21	553		
Grand Total		**1921**	**42937**		

Specimens submitted by the counties continue to be negative for SLE.

La Crosse Encephalitis (LAC) through 2 September 2009.

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).

County	Species	Pools	Mosquitoes	Positives	MFIR
Cape May		**219**	**1060**		
	Aedes albopictus	53	204		
	Aedes japonicus	115	498		
	Aedes triseriatus	41	135		
	Anopheles bradleyi	1	34		
	Culex pipiens	1	41		
	Culex restuans	1	8		
	Culex salinarius	2	77		
	Culex spp.	5	63		
Passaic		**2**	**17**		
	Aedes triseriatus	2	17		
Grand Total		**221**	**1077**		