

VECTOR SURVEILLANCE IN NEW JERSEY

EEE, WNV, SLE and LAC

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CDC WEEK 34: August 19 to August 25, 2012

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Culiseta melanura and Eastern Equine Encephalitis

SITE/Boxes	Inland / Coastal	Historic Population Mean	Current Weekly Mean	Total (Collected) Tested*	Total Pools (Submitted) Tested	EEE Isolation Pools	MFIR
Bass River (Burlington Co.)/10	Coastal	na	0.70	(14) 7	(4) 3		
Green Bank (Burlington Co.)/25	Coastal	3.89	1.60	(83) 43 [‡]	(7) 6	1	23.26
Corbin City (Atlantic Co.)/25	Coastal	1.77	0.40	(167) 157	(12) 11		
Dennisville (Cape May Co.)/50	Coastal	9.82	0.22	104	12	2	19.23
Winslow (Camden Co.)/50	Inland	1.89	0.50	1750	40	8	4.57
Centerton (Salem Co.)/50	Inland	4.23	0.92	399	15	3	7.52
Turkey Swamp (Monmouth Co.)/47	Inland	1.89	0.47	540 [‡]	17	1	1.85
Glassboro (Gloucester Co.)/50	Inland	0.51	0.18	164	12	1	6.10

*Including trial run last week in May. ‡ Adjusted.

Remarks: One new EEE positive pool of *Cs. melanura* was detected in the traditional resting box sites at Centerton.

To date 3164 *Cs. melanura* from 116 pools have been tested from the traditional resting box sites, with three additional pools in the system to be tested. Sixteen positive pools have been detected at these sites, for an MFIR of 5.06. A total of 22 positive pools have been detected in New Jersey, with six previously detected positive pools in traps set by individual counties for an MFIR of 1.18 (see below). Overall *Cs. melanura* MFIR value for the state is 2.67. All positive pools remain in *Culiseta melanura*.

Two hundred eighty-one additional pools containing 5086 *Cs. melanura* have been tested from other sites using other traps in addition to resting boxes. No new positive pools were found this past week. A season total of 6 positive *Cs. melanura* pools from these sites have been detected.

Additional <i>Cs. melanura</i> trapped by counties				
*traps with positives indicated in BOLD .				
County	Trap types*	Number collected (pools)	Number of positives pools	MFIR
Burlington	CO₂ , Other	3264 (75)	1	0.31
Cape May	Gravid, RB	471 (90)		
Cumberland	CO ₂ , Gravid, RB	270 (21)		
Gloucester	CO ₂ , RB	982 (72)	4	4.07
Monmouth	Gravid	9 (2)		
Ocean	CO₂ , Gravid, RB	87 (18)	1	11.49
Salem	CO ₂	3 (3)		
TOTAL		5086 (281)	6	1.18

Horses and Humans: To date, four EEE positive horses have been identified: 1) A presumptive positive horse with an unusually early onset date of 25 May has been reported for Burlington County. The horse was reportedly vaccinated in early May. 2) A second horse has been reported, also from Burlington County. Date of onset was 22 July, with the 3.9 yo mare euthanized on the same date and no reported vaccination history. 3) A 3 yo mare from Atlantic County with date of onset of 10 Aug was euthanized on the same day (no vaccination history) and 4) a 4 yo mare from Camden County with date of onset 18 Aug was euthanized on same date, no vaccination history.

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

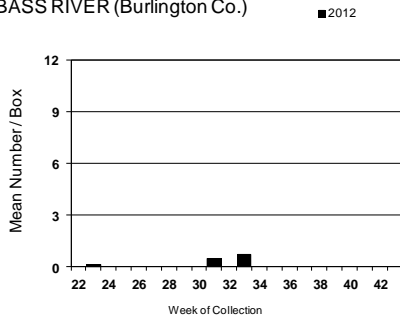
Species other than <i>Cs. melanura</i>	Pools	Mosquitoes	Positives	MFIR
<i>Aedes albopictus</i>	7	35		
<i>Aedes canadensis canadensis</i>	8	239		
<i>Aedes cantator</i>	36	472		
<i>Aedes japonicus</i>	18	72		
<i>Aedes mitchellae</i>	4	60		
<i>Aedes sollicitans</i>	11	24		
<i>Aedes sticticus</i>	1	8		
<i>Aedes triseriatus</i>	4	4		
<i>Aedes trivittatus</i>	1	2		
<i>Aedes vexans</i>	5	81		
<i>Anopheles bradleyi</i>	36	121		
<i>Anopheles crucians</i>	4	38		
<i>Anopheles punctipennis</i>	19	74		
<i>Anopheles quadrimaculatus</i>	17	54		
<i>Coquillettidia perturbans</i>	66	1612		
<i>Culex erraticus</i>	161	5906		
<i>Culex pipiens</i>	503	5106		
<i>Culex restuans</i>	4	56		
<i>Culex salinarius</i>	141	501		
<i>Culex sp.</i>	140	4453		
<i>Psorophora columbiae</i>	1	5		
State Total	1187	18923		

The table to the left indicates non-*Cs. melanura* mosquitoes tested for EEE. An additional 20 species of mosquitoes have been tested with no detection of EEE.

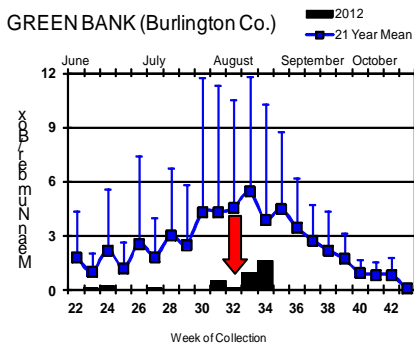
Culiseta melanura Population Graphs

Coastal

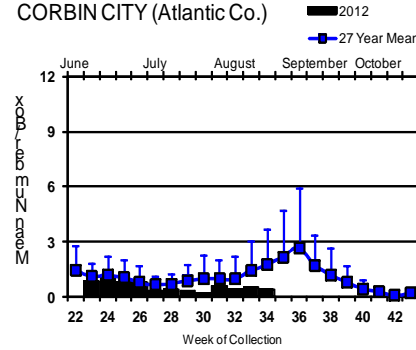
BASS RIVER (Burlington Co.)



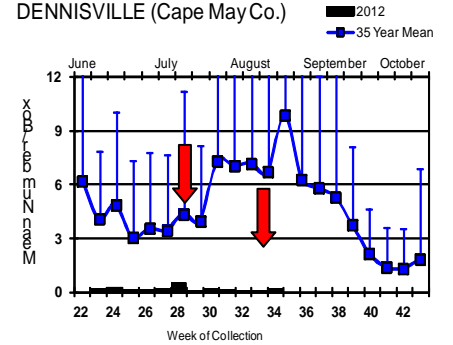
GREEN BANK (Burlington Co.)



CORBIN CITY (Atlantic Co.)

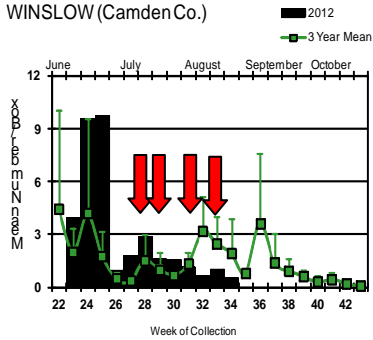


DENNISVILLE (Cape May Co.)

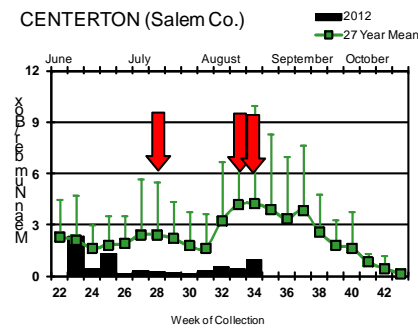


Inland

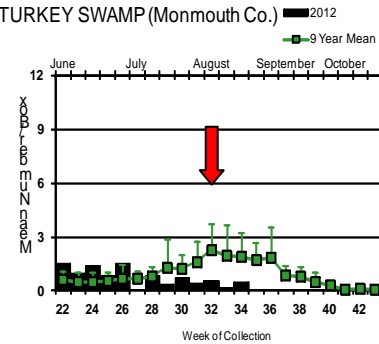
WINSLOW (Camden Co.)



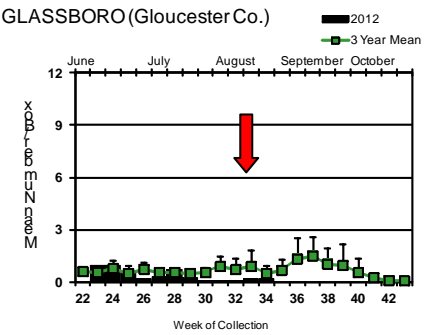
CENTERTON (Salem Co.)



TURKEY SWAMP (Monmouth Co.)



GLASSBORO (Gloucester Co.)



Populations of *Culiseta melanura* continue to be below historical levels, but at 6 sites (Bass River, Green Bank, Dennisville, Centerton, Turkey Swamp and Glassboro), populations have begun to increase as the second generation continues to emerge.

= Positive pool(s) detected.

EEE in US (2012 cumulative cases): (Black or Red = previous + new reported cases occurring)

- equine: 7(AL) 17(FL) 5(GA) 25(LA) 23(MS) 10(NC) 4(NJ) 1(NY) 6(SC)
- mosquito pools: 1(CT) 1(LA) 139(MA) 22(NJ) 1(RI) 88(VA)
- sentinel: 1(DE) 34(FL) 2 wild(ME) 3(NC)
- human: 1(FL) 1(MA)

West Nile Virus

West Nile in US (2012 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	14		8	3	6/8
Alaska					
Arizona		90	2	1	7/15
Arkansas					6/25
California	717/855	1347/1596	131/168	6/8	26/41
Colorado		54/86		5/8	3/5
Connecticut		165/192		0	2/4
Delaware	7/8		2		
DC					
Florida	0		83/97	0	9/13
Georgia	0	29/74	0	0	9/18
Hawaii					
Idaho		18/24		3	3/4
Illinois	48/69	2292/2753		1/2	11/45
Indiana	2	340/422		3/9	7/11
Iowa		3	6	2/4	3/5
Kansas					8/15
Kentucky				3/7	1
Louisiana		1951/2165	53/69	16/27	92/121
Maine		1/2			
Maryland		2/5			5/11
Mass.		111/153		1	1/3
Michigan	6/7	15		2	30/66
Minnesota	13/20	43/51		2/5	20/27
Mississippi		44/55		2/4	78/95
Missouri		79/96		1/5	2/7

	Birds	Mosquito Pools	Sentinels	Horses	Humans
Montana		2		2	1
Nebraska	5/6	108/145			13/20
Nevada				1	
New Hampshire		34/36		0	1
New Jersey	48/61	595/677		1/2	2/4
New Mexico		8/16		5/6	2/7
New York		605/714			4/11
North Carolina					1
North Dakota	1/2	0		9/13	14/19
Ohio		532/695			9/16
Oklahoma		26/28		1/2	61/68
Oregon	1	33/53	0	1	0
Pennsylvania	51/79	2136/2377		7/10*	8/12
Rhode Island		2		0	0
South Carolina	8/12	1		2	7/10
South Dakota	1	61		6/8	67/82
Tennessee	1	534/628		1	3/7
Texas	75/97	929/1073		14/16	455/723
Utah		7/8	0	0	2
Vermont				0	0
Virginia		199			2
Washington	0	2/4		0	0
West Virginia		125/134			1
Wisconsin		0		0	1
Wyoming	3	13		1	2

* Can include other species (e.g., dogs, cows) reported positive.

Protocol: New Jersey Department of Health (NJDH Public Health Environmental and Agricultural Laboratories, PHEAL) and the Cape May County Department of Mosquito Control tests mosquito pools using RT-PCR Taqman techniques.

Mosquito Species Submitted and Tested for West Nile Virus Testing through 27 August 2012

Species	Pools	Mosquitoes	Positives	MFIR
<i>Aedes albopictus</i>	783	6005	3	0.500
<i>Aedes atlanticus</i>	8	12		
<i>Aedes canadensis canadensis</i>	63	1562		
<i>Aedes cantator</i>	69	880		
<i>Aedes grossbecki</i>	2	2		
<i>Aedes japonicus</i>	395	2139	4	1.870
<i>Aedes mitchellae</i>	4	60		
<i>Aedes sollicitans</i>	15	36		
<i>Aedes sticticus</i>	7	124		
<i>Aedes taeniorhynchus</i>	17	199		
<i>Aedes triseriatus</i>	194	434		
<i>Aedes trivittatus</i>	6	10		
<i>Aedes vexans</i>	70	585	1	1.709
<i>Anopheles bradleyi</i>	54	419		
<i>Anopheles crucians</i>	6	43		
<i>Anopheles punctipennis</i>	78	294	1	3.401
<i>Anopheles quadrimaculatus</i>	93	317		
<i>Coquillettidia perturbans</i>	84	1849		
<i>Culex erraticus</i>	173	6033		
<i>Culex pipiens</i>	1075	26835	99	3.689
<i>Culex restuans</i>	295	1648	1	0.607
<i>Culex salinarius</i>	176	755		
<i>Culex sp.</i>	2621	99627	560	5.621
<i>Culex territans</i>	29	48		
<i>Culiseta melanura</i>	420	8308	8	0.963
<i>Culiseta minnesotae</i>	1	2		
<i>Orthopodomyia signifera</i>	12	12		
<i>Psorophora columbiae</i>	6	135		
<i>Psorophora ferox</i>	8	54		
<i>Psorophora howardii</i>	1	1		
State Total	6765	158,428	677	4.273

Remarks: To date, there have been 158,428 mosquitoes tested in 6,765 pools from 29 species. Currently, 677 positive pools have been detected in *Aedes albopictus*, *Ae. japonicus*, *Aedes vexans*, *Anopheles punctipennis*, *Culex pipiens*, Mixed Cx. species, *Culex restuans* and *Culiseta melanura*. Mixed *Culex* pools continued to increase in positive pools from 487 to 560, with MFIR values increasing from 5.186 to 5.621.

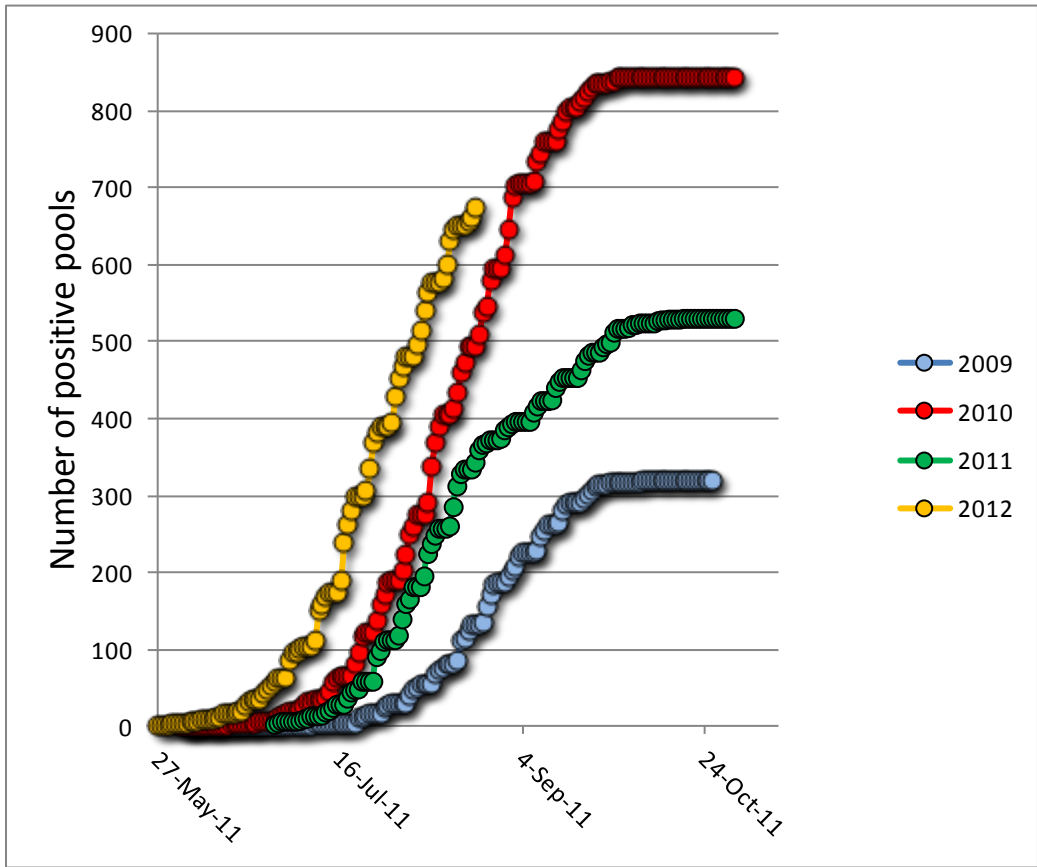
Humans, Horses and Wild Birds: Four human cases have been reported. 1) A 19 yo female from Monmouth County, with onset of symptoms on 12 July and possible acquisition in Ocean County. 2) A 25 yo female from Hudson County, onset date of 19 July has been reported (probable exposure out of state). 3) A 34 yo male from Ocean County, date of onset 31 July, 4) A 72 yo male from Middlesex County, date of onset 3 Aug. See <http://www.state.nj.us/health/cd/westnile/techinfo.shtml> for further information.

Two positive WNV horses have been reported: 1) A 11 yo quarter horse from Salem County, with onset of symptoms on 4th August. The horse was put down the same day. Generally horses have either an unknown or no vaccination history, but this horse was reported as vaccinated. See http://www.esrutgers.com/downloads/NJDA_08102012.pdf In the very active year of 2010, the first WNV horse case had an onset date of 17 August. 2) A 25 yo gelding from Monmouth County, onset of symptoms 14 July, was vaccinated and is recovering.

Bird testing began in mid-April. To date, WNV has been detected in sixty-one birds out of 172 tested. WNV was first detected in an American Crow (*Corvus brachyrhynchos*) from Morris County, collected 9 April. To date, testing includes: American Crow (*Corvus brachyrhynchos* 24/29), Fish Crow (*Corvus ossifragus* 12/35), unidentified Crow (*Corvus* spp. 9/17), Blue Jay (*Cyanocitta cristata* 12/20), Hawk/Raptor (1/8) and other avian species (3/63). Counties submitting birds are Atlantic, Bergen, Burlington, Cape May, Cumberland, Essex, Gloucester, Hunterdon, Mercer, Middlesex, Monmouth, Morris, Ocean, Somerset, Sussex and Warren.

2012 Positive Mosquito pools to date / Total Mosquito Pools Submitted	This time last year
677 / 6765 (0.100)	370 / 4484 (0.083)
2012 Positive Birds to date / Total Birds Submitted	This time last year
61 / 172 (0.355)	19 / 74 (0.257)

Activity continues to increase, as seen by plotting cumulative positive pools (graph below).



WNV Results by County through 27 August 2012

County	Species	Pools	Mosquitoes	Positives	MFIR
Atlantic		80	2011	3	1.492
	<i>Aedes albopictus</i>	12	187		
	<i>Aedes canadensis canadensis</i>	1	2		
	<i>Aedes cantator</i>	1	10		
	<i>Aedes japonicus</i>	6	24		
	<i>Aedes sollicitans</i>	1	9		
	<i>Aedes taeniorhynchus</i>	2	89		
	<i>Aedes triseriatus</i>	2	12		
	<i>Aedes trivittatus</i>	1	2		

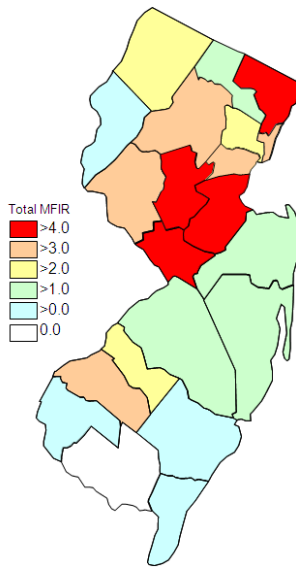
<i>Aedes vexans</i>	3	78		
<i>Anopheles bradleyi</i>	1	3		
<i>Anopheles punctipennis</i>	1	15		
<i>Coquillettidia perturbans</i>	2	3		
<i>Culex erraticus</i>	3	34		
<i>Culex</i> spp.	30	1370	3	2.190
<i>Culiseta melanura</i>	12	164		
<i>Psorophora ferox</i>	1	8		
<i>Psorophora howardii</i>	1	1		
Bergen	155	9995	107	10.705
<i>Aedes albopictus</i>	1	7		
<i>Aedes japonicus</i>	1	4		
<i>Culex</i> spp.	153	9984	107	10.717
Burlington	349	11254	19	1.688
<i>Aedes albopictus</i>	12	203		
<i>Aedes canadensis canadensis</i>	6	214		
<i>Aedes cantator</i>	2	30		
<i>Aedes japonicus</i>	21	115	1	8.696
<i>Aedes mitchellae</i>	4	60		
<i>Aedes sticticus</i>	1	8		
<i>Aedes triseriatus</i>	4	14		
<i>Aedes trivittatus</i>	1	2		
<i>Aedes vexans</i>	6	88		
<i>Anopheles bradleyi</i>	3	80		
<i>Anopheles crucians</i>	3	37		
<i>Anopheles punctipennis</i>	3	14		
<i>Anopheles quadrimaculatus</i>	3	11		
<i>Coquillettidia perturbans</i>	24	967		
<i>Culex erraticus</i>	7	87		
<i>Culex pipiens</i>	6	222		
<i>Culex restuans</i>	3	55		
<i>Culex salinarius</i>	10	182		
<i>Culex</i> spp.	145	5546	14	2.524
<i>Culiseta melanura</i>	84	3314	4	1.207
<i>Psorophora columbiae</i>	1	5		
Camden	198	7024	36	5.125
<i>Aedes albopictus</i>	16	101		
<i>Aedes japonicus</i>	15	30	1	33.333
<i>Aedes triseriatus</i>	2	6		
<i>Aedes trivittatus</i>	1	2		
<i>Anopheles punctipennis</i>	1	2		
<i>Culex</i> spp.	123	5133	34	6.624
<i>Culiseta melanura</i>	39	1725	1	0.580
Cape May	2209	18875	11	0.583
<i>Aedes albopictus</i>	375	869		
<i>Aedes atlanticus</i>	5	8		
<i>Aedes canadensis canadensis</i>	8	73		
<i>Aedes cantator</i>	43	458		
<i>Aedes japonicus</i>	94	145		
<i>Aedes sollicitans</i>	12	25		
<i>Aedes taeniorhynchus</i>	14	109		
<i>Aedes triseriatus</i>	111	173		

<i>Aedes vexans</i>	12	42		
<i>Anopheles bradleyi</i>	35	118		
<i>Anopheles punctipennis</i>	16	20		
<i>Anopheles quadrimaculatus</i>	63	231		
<i>Coquillettidia perturbans</i>	5	24		
<i>Culex erraticus</i>	149	5814		
<i>Culex pipiens</i>	650	8688	11	1.266
<i>Culex restuans</i>	255	785		
<i>Culex salinarius</i>	144	380		
<i>Culex spp.</i>	71	273		
<i>Culex territans</i>	26	45		
<i>Culiseta melanura</i>	108	582		
<i>Orthopodomyia signifera</i>	12	12		
<i>Psorophora columbiae</i>	1	1		
Cumberland	128	1391		
<i>Aedes albopictus</i>	12	47		
<i>Aedes atlanticus</i>	2	2		
<i>Aedes canadensis canadensis</i>	4	25		
<i>Aedes cantator</i>	3	11		
<i>Aedes japonicus</i>	11	30		
<i>Aedes triseriatus</i>	6	13		
<i>Aedes vexans</i>	2	6		
<i>Anopheles crucians</i>	4	158		
<i>Anopheles bradleyi</i>	3	6		
<i>Anopheles punctipennis</i>	6	12		
<i>Anopheles quadrimaculatus</i>	1	1		
<i>Coquillettidia perturbans</i>	6	89		
<i>Culex erraticus</i>	3	8		
<i>Culex pipiens</i>	16	340		
<i>Culex restuans</i>	8	86		
<i>Culex salinarius</i>	10	148		
<i>Culex spp.</i>	3	13		
<i>Culex territans</i>	3	3		
<i>Culiseta melanura</i>	21	270		
<i>Psorophora columbiae</i>	2	104		
<i>Psorophora ferox</i>	2	19		
Essex	327	5616	27	4.808
<i>Aedes albopictus</i>	46	265		
<i>Aedes canadensis canadensis</i>	2	2		
<i>Aedes grossbecki</i>	2	2		
<i>Aedes japonicus</i>	39	386	1	2.591
<i>Aedes sticticus</i>	5	113		
<i>Aedes triseriatus</i>	9	22		
<i>Aedes vexans</i>	16	220		
<i>Culex spp.</i>	207	4602	26	5.650
<i>Psorophora ferox</i>	1	4		
Gloucester	425	14931	50	3.349
<i>Aedes albopictus</i>	23	786		
<i>Aedes japonicus</i>	6	127		
<i>Aedes triseriatus</i>	1	7		
<i>Aedes vexans</i>	1	2		
<i>Anopheles punctipennis</i>	15	78		
<i>Anopheles quadrimaculatus</i>	14	44		

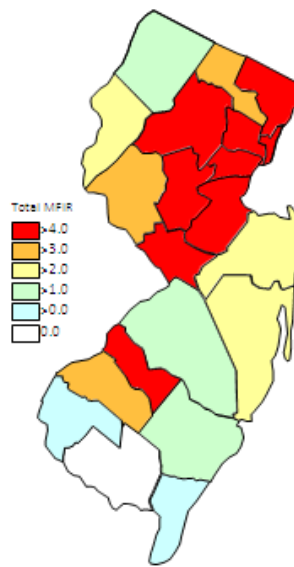
	<i>Coquillettidia perturbans</i>	1	2		
	<i>Culex pipiens</i>	280	12739	47	3.689
	<i>Culiseta melanura</i>	84	1146	3	2.618
Hudson		175	10954	60	5.477
	<i>Culex</i> spp.	175	10954	60	5.477
Hunterdon		213	10250	36	3.512
	<i>Culex</i> spp.	213	10250	36	3.512
Mercer		226	6320	45	7.120
	<i>Aedes albopictus</i>	47	477		
	<i>Aedes japonicus</i>	32	177		
	<i>Aedes triseriatus</i>	5	11		
	<i>Aedes vexans</i>	1	3		
	<i>Culex erraticus</i>	1	7		
	<i>Culex pipiens</i>	114	4760	41	8.613
	<i>Culex restuans</i>	20	520	1	1.923
	<i>Culex</i> spp.	6	365	3	8.219
Middlesex		211	7474	60	8.028
	<i>Aedes albopictus</i>	16	185		
	<i>Aedes japonicus</i>	15	120		
	<i>Aedes triseriatus</i>	3	14		
	<i>Culex</i> spp.	177	7155	60	8.386
Monmouth		263	3882	8	2.061
	<i>Aedes albopictus</i>	46	258	1	3.876
	<i>Aedes canadensis canadensis</i>	10	125		
	<i>Aedes cantator</i>	8	43		
	<i>Aedes japonicus</i>	42	154	1	6.494
	<i>Aedes triseriatus</i>	12	17		
	<i>Aedes vexans</i>	5	8		
	<i>Anopheles punctipennis</i>	11	16		
	<i>Coquillettidia perturbans</i>	3	4		
	<i>Culex erraticus</i>	1	1		
	<i>Culex pipiens</i>	1	1		
	<i>Culex salinarius</i>	3	14		
	<i>Culex</i> spp.	99	2682	6	2.237
	<i>Culiseta melanura</i>	22	559		
Morris		285	10884	53	4.870
	<i>Aedes japonicus</i>	15	168		
	<i>Aedes triseriatus</i>	3	14		
	<i>Anopheles punctipennis</i>	2	65		
	<i>Coquillettidia perturbans</i>	3	149		
	<i>Culex</i> spp.	262	10488	53	5.053
Ocean		311	5620	15	2.669
	<i>Aedes albopictus</i>	77	1830	1	0.546
	<i>Aedes atlanticus</i>	1	2		
	<i>Aedes canadensis canadensis</i>	29	1112		
	<i>Aedes cantator</i>	11	327		
	<i>Aedes japonicus</i>	29	130		
	<i>Aedes sollicitans</i>	2	2		

	<i>Aedes taeniorhynchus</i>	1	1		
	<i>Aedes triseriatus</i>	11	24		
	<i>Aedes trivittatus</i>	1	2		
	<i>Aedes vexans</i>	8	33	1	30.303
	<i>Anopheles bradleyi</i>	7	39		
	<i>Anopheles punctipennis</i>	2	2		
	<i>Anopheles quadrimaculatus</i>	1	1		
	<i>Coquillettidia perturbans</i>	19	423		
	<i>Culex restuans</i>	1	1		
	<i>Culex salinarius</i>	9	31		
	<i>Culex</i> spp.	82	1571	13	8.275
	<i>Culiseta melanura</i>	18	87		
	<i>Psorophora ferox</i>	2	2		
Passaic		129	2397	8	3.3383
	<i>Aedes albopictus</i>	21	92	1	10.870
	<i>Aedes japonicus</i>	28	313		
	<i>Aedes triseriatus</i>	10	25		
	<i>Anopheles punctipennis</i>	3	5		
	<i>Coquillettidia perturbans</i>	1	2		
	<i>Culex</i> spp.	66	1960	7	3.571
Salem		217	2315	1	0.432
	<i>Aedes albopictus</i>	33	99		
	<i>Aedes canadensis canadensis</i>	2	6		
	<i>Aedes cantator</i>	1	1		
	<i>Aedes japonicus</i>	8	22		
	<i>Aedes sticticus</i>	1	3		
	<i>Aedes triseriatus</i>	4	4		
	<i>Aedes vexans</i>	10	82		
	<i>Anopheles bradleyi</i>	4	21		
	<i>Anopheles punctipennis</i>	5	7		
	<i>Anopheles quadrimaculatus</i>	7	25		
	<i>Coquillettidia perturbans</i>	18	142		
	<i>Culex erraticus</i>	9	82		
	<i>Culex pipiens</i>	4	26		
	<i>Culex restuans</i>	2	15		
	<i>Culex</i> spp.	80	1308	1	0.765
	<i>Culiseta melanura</i>	24	424		
	<i>Culiseta minnesotae</i>	1	2		
	<i>Psorophora columbiae</i>	2	25		
	<i>Psorophora ferox</i>	2	21		
Somerset		182	3630	23	6.336
	<i>Aedes albopictus</i>	12	72		
	<i>Aedes canadensis canadensis</i>	1	3		
	<i>Aedes japonicus</i>	16	105		
	<i>Aedes triseriatus</i>	3	39		
	<i>Aedes vexans</i>	1	8		
	<i>Anopheles punctipennis</i>	2	13	1	76.923
	<i>Culex</i> spp.	147	3390	22	6.490
Sussex		210	6786	11	1.621
	<i>Coquillettidia perturbans</i>	1	43		
	<i>Culex pipiens</i>	4	59		

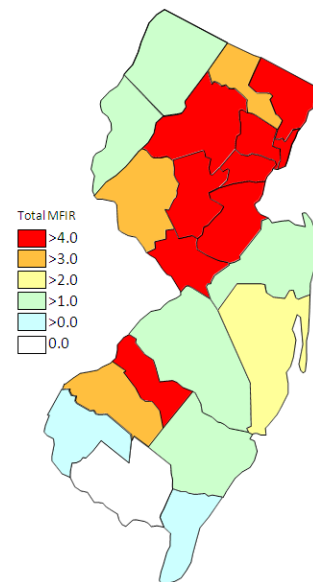
<i>Culex restuans</i>	6	186		
<i>Culex</i> spp.	192	6486	11	1.696
<i>Culiseta melanura</i>	7	12		
Union	239	11695	92	7.867
<i>Aedes albopictus</i>	34	527		
<i>Aedes japonicus</i>	3	42		
<i>Aedes triseriatus</i>	1	15		
<i>Culex</i> spp.	201	11111	92	8.280
Warren	233	5124	12	2.342
<i>Aedes japonicus</i>	14	47		
<i>Aedes triseriatus</i>	7	24		
<i>Aedes trivittatus</i>	2	2		
<i>Aedes vexans</i>	5	15		
<i>Anopheles punctipennis</i>	11	45		
<i>Anopheles quadrimaculatus</i>	4	4		
<i>Coquillettidia perturbans</i>	1	1		
<i>Culex</i> spp.	189	4986	12	2.407
Grand Total	6765	158428	677	4.273



Cumulative WNV activity in 2011.



WNV activity to 27 August 2012.



WNV activity last week, 2012.

Saint Louis Encephalitis (SLE) through 27 August 2012.

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 have tested positive for SLE to date in 2012.

County	Species	Pools	Mosquitoes	Positives	MFIR
Burlington		266	9092		
	<i>Aedes albopictus</i>	5	32		
	<i>Aedes canadensis canadensis</i>	6	214		
	<i>Aedes cantator</i>	2	30		
	<i>Aedes japonicus</i>	18	72		
	<i>Aedes mitchellae</i>	4	60		
	<i>Aedes sticticus</i>	1	8		
	<i>Aedes triseriatus</i>	3	3		
	<i>Aedes trivittatus</i>	1	2		
	<i>Aedes vexans</i>	4	65		
	<i>Anopheles bradleyi</i>	1	4		
	<i>Anopheles crucians</i>	3	37		
	<i>Anopheles punctipennis</i>	2	13		
	<i>Anopheles quadrimaculatus</i>	3	11		
	<i>Coquillettidia perturbans</i>	20	892		
	<i>Culex erraticus</i>	3	71		
	<i>Culex pipiens</i>	6	222		
	<i>Culex restuans</i>	3	55		
	<i>Culex salinarius</i>	10	182		
	<i>Culex</i> spp.	115	4567		
	<i>Culiseta melanura</i>	55	2547		
	<i>Psorophora columbiae</i>	1	5		
Camden		75	2601		
	<i>Aedes albopictus</i>	7	31		
	<i>Aedes japonicus</i>	4	6		
	<i>Aedes triseriatus</i>	1	5		
	<i>Anopheles punctipennis</i>	1	2		
	<i>Culex</i> spp.	62	2557		
Essex		200	3900		
	<i>Aedes albopictus</i>	23	48		
	<i>Aedes canadensis canadensis</i>	2	2		
	<i>Aedes grossbecki</i>	2	2		
	<i>Aedes japonicus</i>	30	251		
	<i>Aedes sticticus</i>	5	113		
	<i>Aedes triseriatus</i>	9	22		
	<i>Aedes vexans</i>	16	220		
	<i>Culex</i> spp.	112	3238		
	<i>Psorophora ferox</i>	1	4		
Hudson		74	4966		

	<i>Culex</i> spp.	74	4966		
Grand Total		615	20559		

La Crosse Encephalitis (LAC) through 27 August 2012.

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 2012.

County	Species	Pools	Mosquitoes	Positives	MFIR
Cape May		88	140		
	<i>Aedes triseriatus</i>	87	138		
	<i>Culex</i> spp.	1	2		
Cumberland		6	13		
	<i>Aedes triseriatus</i>	6	13		
Salem		1	1		
	<i>Aedes triseriatus</i>	1	1		
Union		1	15		
	<i>Aedes triseriatus</i>	1	15		
Grand Total		96	169		