

VECTOR SURVEILLANCE IN NEW JERSEY

EEE, WNV, SLE and LAC

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CDC WEEK 30: July 22 to July 28, 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	1	1		
Green Bank (Burlington Co.)/25	Coastal	4.29	0	7	3		
Corbin City (Atlantic Co.)/25	Coastal	1.00	0.24	(119) 113	(8) 7		
Dennisville (Cape May Co.)/50	Coastal	7.31	0.20	82	8	1	12.20
Winslow (Camden Co.)/50	Inland	0.69	1.52	1587	34	5	3.15
Centerton (Salem Co.)/50	Inland	1.78	0.08	291	11	1	3.44
Turkey Swamp (Monmouth Co.)/48	Inland	1.21	0.67	(487) 455	(14) 13		
Glassboro (Gloucester Co.)/50	Inland	0.55	0.06	140	8		

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

Remarks: No new EEE pools of *Culiseta melanura* collected from the traditional resting box sites were detected this past week (but see table below for EEE activity in other *Cs. melanura* sites). Because of no additional pools detected in the generally low numbers caught at the sites, infection rates have decreased from the previous week.

To date 2667 *Cs. melanura* from 85 pools have been tested, with two additional pools in the system to be tested. A total of 9 positive pools have been detected, seven of which are in the traditional resting box sites. All positive pools have been in *Culiseta melanura*.

Two hundred nineteen additional pools containing 4401 *Cs. melanura* have been tested from other county trapping sites using other traps in addition to resting boxes. Two pools, both from resting boxes maintained by Gloucester County have tested positive for EEE. Samples were collected on 13 July.

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	2836 (62)	0	
Cape May	Gravid, RB	387 (66)	0	
Cumberland	CO2, Gravid, RB	204 (16)	0	
Gloucester	RB	890 (55)	2	2.25
Monmouth	Gravid	9 (2)	0	
Ocean	CO2, RB	82 (16)	0	
Salem	CO2	2 (2)	0	
TOTAL		4401 (219)	2	0.45

Horses and Humans: 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. No positive EEE mosquito pools have been collected in Burlington County.

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

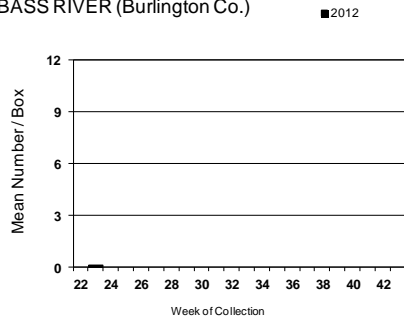
Species other than <i>Cs. melanura</i>	Pools	Mosquitoes	Positives	MFIR
<i>Aedes albopictus</i>	7	35		
<i>Aedes canadensis canadensis</i>	7	238		
<i>Aedes cantator</i>	31	464		
<i>Aedes japonicus</i>	18	72		
<i>Aedes mitchellae</i>	4	60		
<i>Aedes sollicitans</i>	3	11		
<i>Aedes sticticus</i>	1	8		
<i>Aedes triseriatus</i>	4	4		
<i>Aedes trivittatus</i>	1	2		
<i>Aedes vexans</i>	4	65		
<i>Anopheles bradleyi</i>	17	42		
<i>Anopheles crucians</i>	3	37		
<i>Anopheles punctipennis</i>	14	60		
<i>Anopheles quadrimaculatus</i>	15	51		
<i>Coquillettidia perturbans</i>	58	1550		
<i>Culex erraticus</i>	69	2425		
<i>Culex pipiens</i>	278	3116		
<i>Culex restuans</i>	3	55		
<i>Culex salinarius</i>	79	368		
<i>Culex sp.</i>	123	4405		
<i>Psorophora columbiae</i>	1	5		
State Total	740	13073		

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.

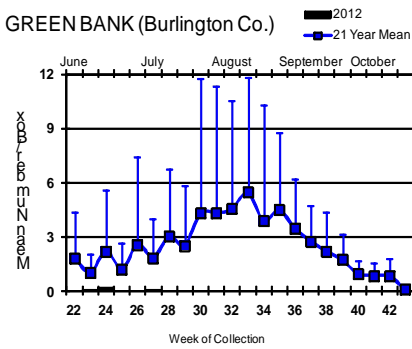
Culiseta melanura Population Graphs

Coastal

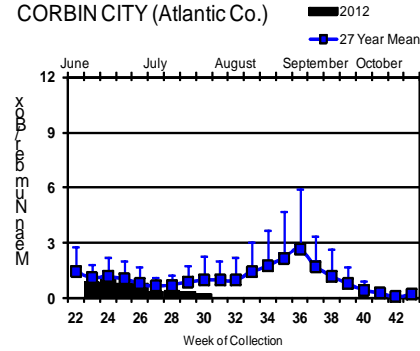
BASS RIVER (Burlington Co.)



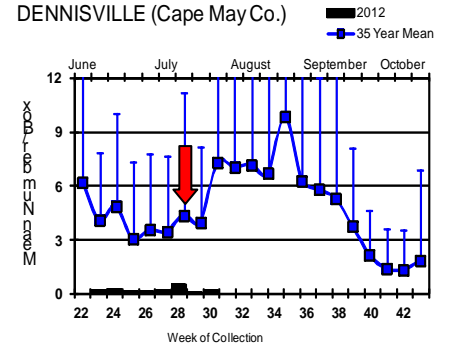
GREEN BANK (Burlington Co.)



CORBIN CITY (Atlantic Co.)

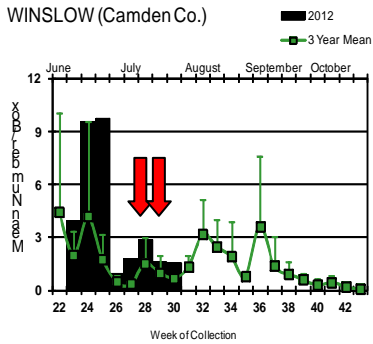


DENNISVILLE (Cape May Co.)

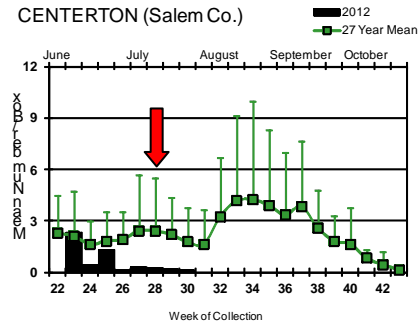


Inland

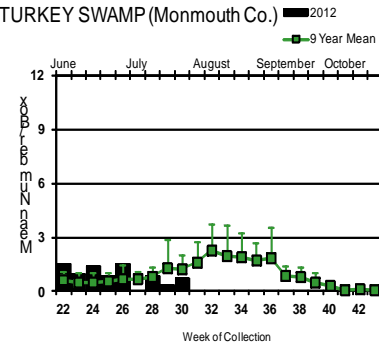
WINSLOW (Camden Co.)



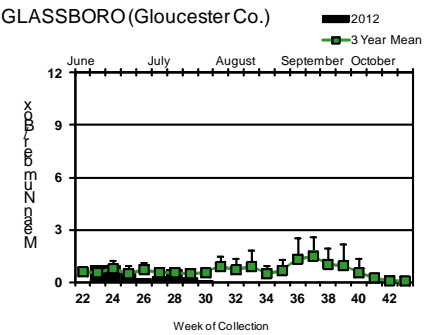
CENTERTON (Salem Co.)



TURKEY SWAMP (Monmouth Co.)



GLASSBORO (Gloucester Co.)



The Winslow site continues to report *Culiseta melanura* populations slightly elevated above historical values. All other sites are either close to but below historical averages (Corbin City, Turkey Swamp and Glassboro) or significantly below historical averages (Green Bank, Dennisville, and Centerton).

↓ = Positive pool(s) detected.

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

- equine: 12(FL) 5(GA) 10(LA) 15(MS) 3(NC) 1(NJ) 1(NY) 6(SC)
- mosquito pools: 1(LA) 37(MA) 9(NJ)
- sentinel: 27(FL) 2 wild(ME) 2(NC)
- human: 1(FL)

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					
Alaska					
Arizona	1	8/15	2	1	2/4
Arkansas					1
California	432/493	593/761	19/30	1	6/7
Colorado		10/21		1	
Connecticut		9/35		0	0
Delaware	2				
DC					
Florida	0		57	0	0
Georgia	0	3/4	0	0	0
Hawaii					
Idaho		3		0	0
Illinois	21/24	375/817		0	0
Indiana	1	25/104		0	0
Iowa		0	0	0	0
Kansas					3
Kentucky				0	1
Louisiana		499/1268	21/53	8	10/14
Maine					
Maryland		1			
Mass.		15/32		0	0
Michigan	1	1		0	0
Minnesota	3	2			1
Mississippi		37		1	5/20
Missouri		17/18		0	1

	Birds	Mosquito Pools	Sentinels	Horses	Humans
Montana					
Nebraska	2	24/25			1/2
Nevada					
New Hampshire		0		0	0
New Jersey	14/21	201/295		0	1
New Mexico					0
New York		75/192			
North Carolina					
North Dakota	0	0		0	0
Ohio		62/262			
Oklahoma		1/22			1/6
Oregon	0	6/30	0	0	0
Pennsylvania	10/26	402/1119		1	
Rhode Island		1		0	0
South Carolina	1	1		1	1
South Dakota		19		1	1/4
Tennessee	0	189/254		0	0
Texas	13/14	379/401		2/3	53/111
Utah		1	0	0	0
Vermont					
Virginia					
Washington	0	1		0	0
West Virginia		1/79			
Wisconsin	1	0		0	0
Wyoming		4/6		0	0

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

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 and Tested for West Nile Virus Testing through 30 July 2012

Species	Pools	Mosquitoes	Positives	MFIR
<i>Aedes albopictus</i>	378	2732	1	0.366
<i>Aedes atlanticus</i>	1	3		
<i>Aedes canadensis canadensis</i>	58	1548		
<i>Aedes cantator</i>	60	866		
<i>Aedes grossbecki</i>	2	2		
<i>Aedes japonicus</i>	271	1590	4	2.516
<i>Aedes mitchellae</i>	4	60		
<i>Aedes sollicitans</i>	6	14		
<i>Aedes sticticus</i>	7	124		
<i>Aedes taeniorhynchus</i>	12	190		
<i>Aedes triseriatus</i>	135	321		
<i>Aedes trivittatus</i>	5	9		
<i>Aedes vexans</i>	56	540		
<i>Anopheles bradleyi</i>	33	332		
<i>Anopheles crucians</i>	3	37		
<i>Anopheles punctipennis</i>	52	185	1	5.405
<i>Anopheles quadrimaculatus</i>	60	185		
<i>Coquilleltidia perturbans</i>	65	1605		
<i>Culex erraticus</i>	73	2473		
<i>Culex pipiens</i>	680	18641	34	1.824
<i>Culex restuans</i>	202	1302	1	0.768
<i>Culex salinarius</i>	107	547		
<i>Culex sp.</i>	1849	74555	248	3.326
<i>Culex territans</i>	18	35		
<i>Culiseta melanura</i>	321	7113	6	0.844
<i>Culiseta minnesotae</i>	1	2		
<i>Orthopodomyia signifera</i>	7	7		
<i>Psorophora columbiae</i>	3	30		
<i>Psorophora ferox</i>	7	51		
<i>Psorophora howardii</i>	1	1		
State Total	4477	115,100	295	2.563

Remarks: To date, there have been 115,100 mosquitoes tested in 4,477 pools from 29 species. Currently, 295 positive pools have been detected in *Aedes japonicus*, *Culex pipiens*, Mixed Cx. species, *Culex restuans*, *Culiseta melanura* and most recently, from *Aedes albopictus* (collected 17 July in Monmouth County) and *Anopheles punctipennis* (collected 16 July from Somerset County). The addition of positives in *Ae. albopictus* and *An. punctipennis* indicate infections in potential bridge vectors, with *Ae. albopictus* being the most concerning. Mixed Culex pools again increased significantly from 163 to 248), with MFIR values increasing from 2.493 to 3.326. Positive pools have been detected in Atlantic, Bergen, Burlington, Camden, Cape May, Essex, Gloucester, Hudson, Hunterdon, Mercer, Middlesex, Monmouth, Morris, Ocean, Passaic, Somerset, Sussex, Union and Warren counties.

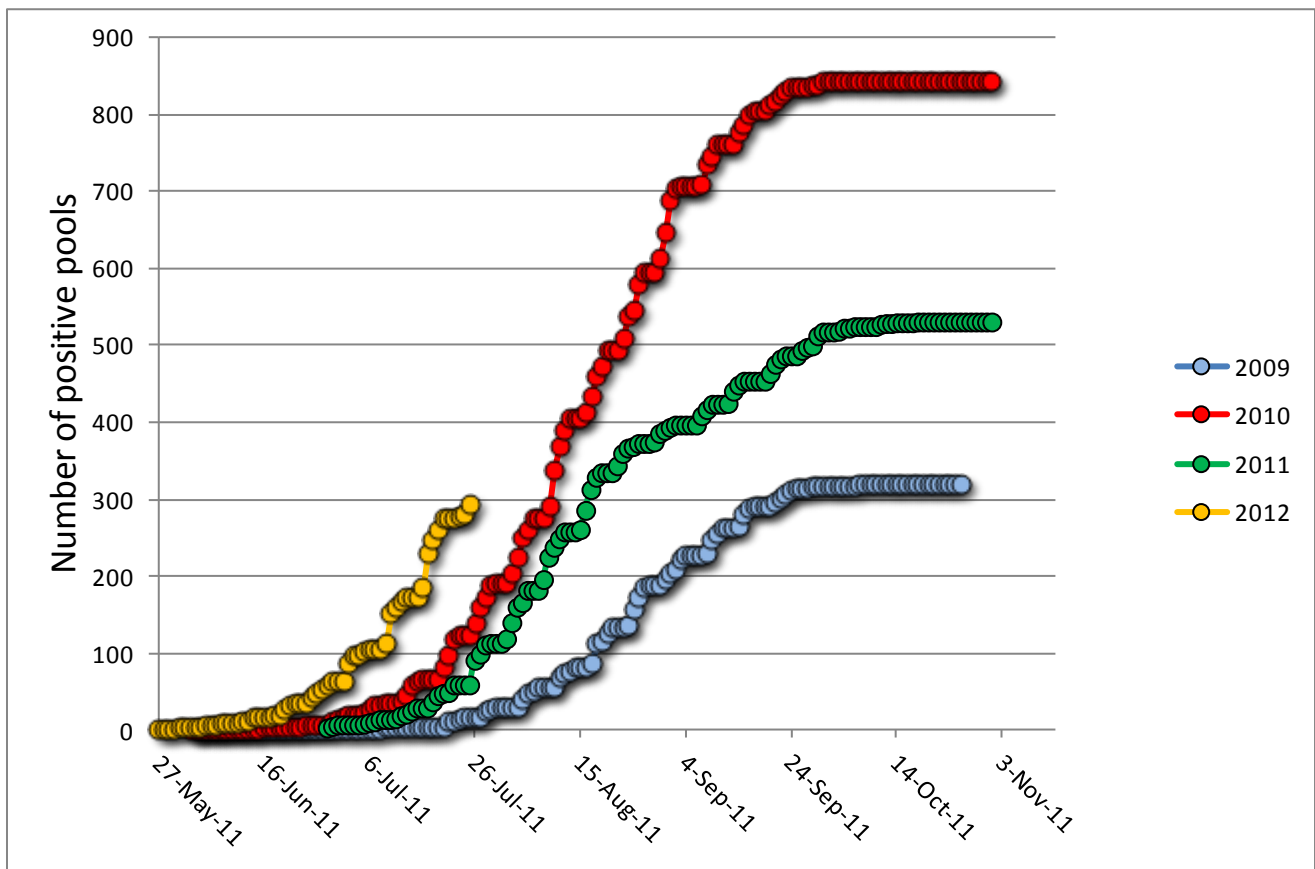
Humans, Horses and Wild Birds: One human case (19 year old female) has been reported in Monmouth County, with onset of symptoms on 12 July and possible acquisition in Ocean County. See <http://www.state.nj.us/health/cd/westnile/techinfo.shtml> for further information.

Bird testing began in mid-April. To date, WNV has been detected in twenty-one birds out of 91 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* 5/10), Fish Crow (*Corvus ossifragus* 8/25), unidentified Crow (*Corvus* spp. 5/11), Blue Jay (*Cyanocitta cristata* 2/7), Hawk/Raptor (0/6) and other avian species (1/32). Counties submitting birds are Atlantic, Bergen, Burlington, Cape May, Essex, Gloucester, Hunterdon, Mercer, Middlesex, Monmouth, Morris, Ocean, Sussex and Warren. County participation in submitting dead birds varies across the state.

2012 Positive Mosquito pools to date / Total Mosquito Pools Submitted	This time last year
288 / 4477 (0.064)	112 / 2809 (0.040)
2012 Positive Birds to date / Total Birds Submitted	This time last year
21 / 91 (0.231)	1 / 40 (0.025)

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



WNV Results by County through 30 July 2012

County	Species	Pools	Mosquitoes	Positives	MFIR
Atlantic		51	1287	2	1.554
	<i>Aedes albopictus</i>	6	83		
	<i>Aedes canadensis canadensis</i>	1	2		
	<i>Aedes cantator</i>	1	10		
	<i>Aedes japonicus</i>	3	13		
	<i>Aedes taeniorhynchus</i>	2	89		
	<i>Aedes triseriatus</i>	1	11		
	<i>Aedes trivittatus</i>	1	2		
	<i>Aedes vexans</i>	2	75		
	<i>Anopheles bradleyi</i>	1	3		
	<i>Anopheles punctipennis</i>	1	15		

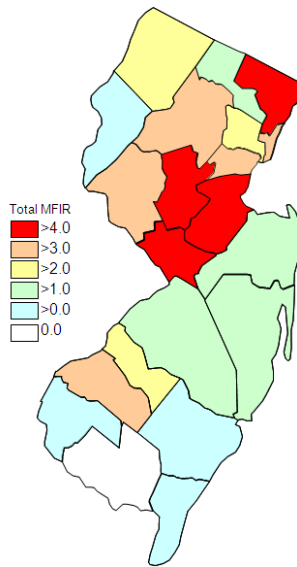
<i>Coquillettidia perturbans</i>	2	3		
<i>Culex erraticus</i>	1	30		
<i>Culex</i> spp.	19	822	2	2.433
<i>Culiseta melanura</i>	8	120		
<i>Psorophora ferox</i>	1	8		
<i>Psorophora howardii</i>	1	1		
Bergen	80	5794	39	6.731
<i>Aedes japonicus</i>	1	4		
<i>Culex</i> spp.	79	5790	39	6.736
Burlington	305	10447	14	6.736
<i>Aedes albopictus</i>	9	122		
<i>Aedes canadensis canadensis</i>	6	214		
<i>Aedes cantator</i>	2	30		
<i>Aedes japonicus</i>	20	105	1	9.524
<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>	5	72		
<i>Anopheles bradleyi</i>	2	79		
<i>Anopheles crucians</i>	3	37		
<i>Anopheles punctipennis</i>	3	14		
<i>Anopheles quadrimaculatus</i>	3	11		
<i>Coquillettidia perturbans</i>	21	921		
<i>Culex erraticus</i>	4	73		
<i>Culex pipiens</i>	6	222		
<i>Culex restuans</i>	3	55		
<i>Culex salinarius</i>	10	182		
<i>Culex</i> spp.	132	5388	11	2.042
<i>Culiseta melanura</i>	66	2844	2	0.703
<i>Psorophora columbiae</i>	1	5		
Camden	150	5733	18	3.140
<i>Aedes albopictus</i>	6	14		
<i>Aedes japonicus</i>	10	21	1	47.619
<i>Aedes triseriatus</i>	2	6		
<i>Aedes trivittatus</i>	1	2		
<i>Anopheles punctipennis</i>	1	2		
<i>Culex</i> spp.	96	4101	16	3.901
<i>Culiseta melanura</i>	34	1587	1	0.630
Cape May	1248	11284	7	0.620
<i>Aedes albopictus</i>	151	309		
<i>Aedes atlanticus</i>	1	3		
<i>Aedes canadensis canadensis</i>	5	63		
<i>Aedes cantator</i>	34	444		
<i>Aedes japonicus</i>	54	93		
<i>Aedes sollicitans</i>	4	12		
<i>Aedes taeniorhynchus</i>	9	100		
<i>Aedes triseriatus</i>	70	123		
<i>Aedes vexans</i>	8	38		
<i>Anopheles bradleyi</i>	16	38		
<i>Anopheles punctipennis</i>	13	17		
<i>Anopheles quadrimaculatus</i>	38	118		

<i>Coquillettidia perturbans</i>	4	23		
<i>Culex erraticus</i>	62	2338		
<i>Culex pipiens</i>	382	6119	7	1.144
<i>Culex restuans</i>	165	497		
<i>Culex salinarius</i>	78	236		
<i>Culex spp.</i>	50	205		
<i>Culex territans</i>	17	34		
<i>Culiseta melanura</i>	80	467		
<i>Orthopodomyia signifera</i>	7	7		
Cumberland	88	1050		
<i>Aedes albopictus</i>	7	18		
<i>Aedes canadensis canadensis</i>	4	25		
<i>Aedes cantator</i>	3	11		
<i>Aedes japonicus</i>	7	23		
<i>Aedes triseriatus</i>	5	10		
<i>Aedes vexans</i>	2	6		
<i>Anopheles bradleyi</i>	3	152		
<i>Anopheles punctipennis</i>	4	10		
<i>Coquillettidia perturbans</i>	5	81		
<i>Culex erraticus</i>	1	5		
<i>Culex pipiens</i>	12	307		
<i>Culex restuans</i>	7	84		
<i>Culex salinarius</i>	7	84		
<i>Culex spp.</i>	3	13		
<i>Culex territans</i>	1	1		
<i>Culiseta melanura</i>	16	204		
<i>Psorophora ferox</i>	1	16		
Essex	249	4788	13	2.715
<i>Aedes albopictus</i>	34	108		
<i>Aedes canadensis canadensis</i>	2	2		
<i>Aedes grossbecki</i>	2	2		
<i>Aedes japonicus</i>	34	321	1	3.115
<i>Aedes sticticus</i>	5	113		
<i>Aedes triseriatus</i>	9	22		
<i>Aedes vexans</i>	16	220		
<i>Culex spp.</i>	146	3996	12	3.003
<i>Psorophora ferox</i>	1	4		
Gloucester	318	11363	22	1.936
<i>Aedes albopictus</i>	17	478		
<i>Aedes japonicus</i>	5	75		
<i>Aedes triseriatus</i>	1	7		
<i>Aedes vexans</i>	1	2		
<i>Anopheles punctipennis</i>	12	68		
<i>Anopheles quadrimaculatus</i>	12	41		
<i>Culex pipiens</i>	207	9662	19	1.966
<i>Culiseta melanura</i>	63	1030	3	2.913
Hudson	118	8110	24	2.959
<i>Culex spp.</i>	118	8110	24	2.959
Hunterdon	138	6900	10	1.449
<i>Culex spp.</i>	138	6900	10	1.449

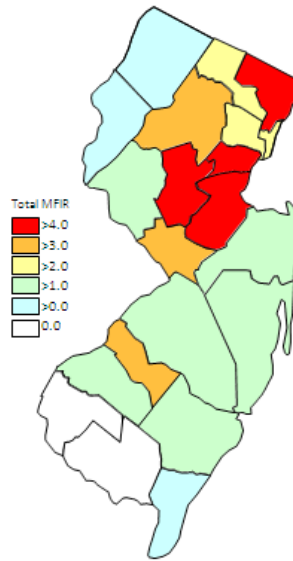
Mercer	142	2962	9	3.038
<i>Aedes albopictus</i>	26	127		
<i>Aedes japonicus</i>	27	111		
<i>Aedes triseriatus</i>	5	11		
<i>Aedes vexans</i>	1	3		
<i>Culex pipiens</i>	65	2246	8	3.562
<i>Culex restuans</i>	18	464	1	2.155
Middlesex	136	4824	22	4.561
<i>Aedes albopictus</i>	11	144		
<i>Aedes japonicus</i>	15	120		
<i>Aedes triseriatus</i>	3	14		
<i>Culex spp.</i>	107	4546	22	4.839
Monmouth	185	3392	5	1.483
<i>Aedes albopictus</i>	26	133	1	7.519
<i>Aedes canadensis canadensis</i>	8	121		
<i>Aedes cantator</i>	8	43		
<i>Aedes japonicus</i>	30	125	1	8.000
<i>Aedes triseriatus</i>	10	13		
<i>Aedes vexans</i>	2	4		
<i>Anopheles punctipennis</i>	4	4		
<i>Coquillettidia perturbans</i>	3	4		
<i>Culex salinarius</i>	3	14		
<i>Culex spp.</i>	73	2437	3	1.231
<i>Culiseta melanura</i>	18	474		
Morris	205	8538	28	3.279
<i>Aedes japonicus</i>	6	92		
<i>Aedes triseriatus</i>	2	7		
<i>Culex spp.</i>	197	8439	28	3.318
Ocean	235	4468	7	3.318
<i>Aedes albopictus</i>	47	956		
<i>Aedes canadensis canadensis</i>	29	1112		
<i>Aedes cantator</i>	11	327		
<i>Aedes japonicus</i>	21	105		
<i>Aedes sollicitans</i>	2	2		
<i>Aedes taeniorhynchus</i>	1	1		
<i>Aedes triseriatus</i>	8	20		
<i>Aedes trivittatus</i>	1	2		
<i>Aedes vexans</i>	6	27		
<i>Anopheles bradleyi</i>	7	39		
<i>Anopheles punctipennis</i>	2	2		
<i>Coquillettidia perturbans</i>	17	418		
<i>Culex restuans</i>	1	1		
<i>Culex salinarius</i>	9	31		
<i>Culex spp.</i>	55	1341	7	5.220
<i>Culiseta melanura</i>	16	82		
<i>Psorophora ferox</i>	2	2		
Passaic	93	2135	6	2.810
<i>Aedes albopictus</i>	12	42		
<i>Aedes japonicus</i>	20	269		

<i>Aedes triseriatus</i>	8	16		
<i>Anopheles punctipennis</i>	2	4		
<i>Coquillettidia perturbans</i>	1	2		
<i>Culex</i> spp.	50	1802	6	3.330
Salem	135	1422		
<i>Aedes albopictus</i>	13	40		
<i>Aedes canadensis canadensis</i>	2	6		
<i>Aedes cantator</i>	1	1		
<i>Aedes japonicus</i>	4	8		
<i>Aedes sticticus</i>	1	3		
<i>Aedes triseriatus</i>	2	2		
<i>Aedes vexans</i>	10	82		
<i>Anopheles bradleyi</i>	4	21		
<i>Anopheles punctipennis</i>	5	7		
<i>Anopheles quadrimaculatus</i>	6	14		
<i>Coquillettidia perturbans</i>	11	110		
<i>Culex erraticus</i>	5	27		
<i>Culex pipiens</i>	4	26		
<i>Culex restuans</i>	2	15		
<i>Culex</i> spp.	47	719		
<i>Culiseta melanura</i>	13	293		
<i>Culiseta minnesotae</i>	1	2		
<i>Psorophora columbiae</i>	2	25		
<i>Psorophora ferox</i>	2	21		
Somerset	120	2756	13	4.717
<i>Aedes albopictus</i>	4	21		
<i>Aedes canadensis canadensis</i>	1	3		
<i>Aedes japonicus</i>	11	82		
<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.	98	2590	12	4.633
Sussex	167	5392	1	0.185
<i>Coquillettidia perturbans</i>	1	43		
<i>Culex pipiens</i>	4	59		
<i>Culex restuans</i>	6	186		
<i>Culex</i> spp.	149	5092	1	0.196
<i>Culiseta melanura</i>	7	12		
Union	161	8287	51	6.154
<i>Aedes albopictus</i>	9	137		
<i>Aedes japonicus</i>	1	14		
<i>Aedes triseriatus</i>	1	15		
<i>Culex</i> spp.	150	8121	51	6.280
Warren	153	4188	4	0.955
<i>Aedes japonicus</i>	2	9		
<i>Aedes triseriatus</i>	2	2		
<i>Aedes trivittatus</i>	1	1		
<i>Aedes vexans</i>	2	3		
<i>Anopheles punctipennis</i>	3	29		
<i>Anopheles quadrimaculatus</i>	1	1		

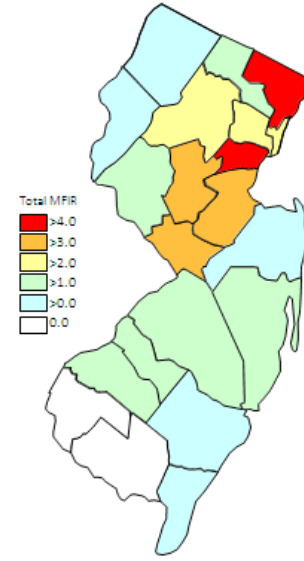
<i>Culex</i> spp.	142	4143	4	0.965
Grand Total	4477	151100	295	2.563



Cumulative WNV activity in 2011.



WNV activity to 30 July 2012.



WNV activity last week, 2012.

Saint Louis Encephalitis (SLE) through 30 July 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		264	9064		
	<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.	113	4539		
	<i>Culiseta melanura</i>	55	2547		
	<i>Psorophora columbiae</i>	1	5		
Camden		50	1713		
	<i>Aedes albopictus</i>	4	11		
	<i>Aedes japonicus</i>	4	6		
	<i>Aedes triseriatus</i>	1	5		
	<i>Anopheles punctipennis</i>	1	2		
	<i>Culex</i> spp.	40	1689		
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>Aedes canadensis canadensis</i>	74	4966		
Grand Total		588	19643		

La Crosse Encephalitis (LAC) through 30 July 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		51	93		
	<i>Aedes triseriatus</i>	51	93		
Cumberland		5	10		
	<i>Aedes triseriatus</i>	5	10		
Salem		1	1		
	<i>Aedes triseriatus</i>	1	1		
Union		1	15		
	<i>Aedes triseriatus</i>	1	15		

Grand Total		58	119	