

VECTOR SURVEILLANCE SUMMARY SHEET

WEEK: 20

Culiseta melanura Monitor

October 14 - 18, 2002

Coastal Resting Boxes						Inland Resting Boxes					
Sites	Mean From Previous Years	No. Per Box For This Collection	Total Collected to Date	Total Pools Submitted to Date	EEE Isolations To Date	Sites	Mean From Previous Years	No. Per Box For This Collection	Total Collected to Date	Total Pools Submitted to Date	EEE Isolations To Date
Green Bank (Burlington Co.)	1.5	0.2	485	60	0	Waterford (Camden Co.)	0.2	0.1	115	23	0
Corbin City (Atlantic Co.)	0.3	NC	94	37	0	Centerton (Salem Co.)	0.8	0	762	76	0
Dennisville (Cape May Co.)	1.7	NC	303	56	0						

Collections submitted to PHEL for West Nile Virus testing

Species	<i>Cx. pip</i>	<i>Cx. rest</i>	<i>Cx. sal</i>	<i>Cx. spp.</i>	<i>Ae. vex</i>	<i>Oc. cana</i>	<i>Oc. triv</i>	<i>Oc. tris</i>	<i>Oc. soll.</i>	<i>Oc. jap</i>	<i>Ae. albo</i>	<i>Cs. mel</i>	Other	TOTALS
No. Pools	581	396	303	3,193	554	161	152	625	196	518	335	320	1,612	8,946
Total Specimens	10,191	7,585	7,377	94,593	7,779	2,856	4,285	2,922	3,811	2,217	2,470	2,804	19,244	168,134
No. Positive Pools	66	13	18	401	7	0	1	4	2	10	4	2	21	549

Remarks: This week's collection represents the last of the season for *Culiseta melanura* at the five resting box collection sites in southern New Jersey. The resting box monitoring program has usually been terminated by this time because of cool night time temperatures and low population levels. As a result, we have limited data on average size of the populations this late in the season. The averages reported for week 20 in this report were drawn from the few years when surveillance continued beyond mid-October because of sustained virus activity and/or unusually high fall populations. The numbers of specimens being tested for WNV is also on the decline because of low mosquito populations and trapping problems encountered at this time of year. Less than 1,600 specimens were submitted for testing since the last report but the collections yielded 3 positives, indicating that WNV is still present at low levels in mosquito populations that are still on the wing. At this point in the season, county mosquito control agencies have collected and pooled 80% of the specimens in this year's database. Minimum Infection Rates in bird feeding mosquito species that drive the amplification phase of the cycle include: *Cx. pipiens* 6.5, *Cx. spp.* 4.2, *Cx. restuans* 1.7, *Cs. melanura* 0.7. Minimum infection rates in selected potential bridge vectors include: *Oc. japonicus*, 4.5, *Cx. salinarius*, 2.4, *Ae. albopictus* 1.6, *Oc. triseriatus* 1.4, *Ae. vexans* 0.9, *Oc. sollicitans* 0.5.

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Submissions by County through October 21, 2002

County	Species	Pools	Mosquitoes	Positives
Atlantic		454	10479	26
	Ae. albopictus	16	78	
	Ae. vexans	41	863	
	An. bradleyi	11	243	
	An. punctipennis	3	6	
	An. quadrimaculatus	2	2	
	Cq. perturbans	5	31	
	Cs. melanura	39	106	
	Cx. erraticus	21	610	1
	Cx. mix	157	5129	21
	Cx. pipiens	4	54	3
	Cx. restuans	8	31	
	Cx. salinarius	7	84	
	Cx. territans	2	3	
	Oc. atlanticus	1	2	
	Oc. canadensis	14	510	
	Oc. cantator	39	1389	
	Oc. grossbecki	6	69	
	Oc. japonicus	4	21	
	Oc. sollicitans	23	650	
	Oc. sticticus	5	74	
	Oc. taeniorhynchus	9	103	
	Oc. thibaulti	1	1	
	Oc. triseriatus	23	116	
	Oc. trivittatus	1	3	
	Or. signifera	1	3	
	Ps. ciliata	9	200	1
	Ps. ferox	2	98	
Bergen		744	22882	130
	Ae. albopictus	29	320	1
	Ae. cinereus	4	66	
	Ae. vexans	46	700	2
	An. crucians	1	1	
	An. punctipennis	16	44	
	An. quadrimaculatus	8	49	
	Cq. perturbans	6	16	
	Cs. melanura	3	17	
	Cx. mix	313	14179	101
	Cx. pipiens	52	1270	13
	Cx. restuans	60	1834	2
	Cx. salinarius	84	3095	8
	Cx. territans	3	15	
	Oc. canadensis	5	66	
	Oc. cantator	1	1	
	Oc. japonicus	31	185	1

	Oc. sollicitans	11	94	1
	Oc. sticticus	1	2	
	Oc. taeniorhynchus	1	1	
	Oc. thibaulti	15	619	
	Oc. triseriatus	30	124	1
	Oc. trivittatus	10	115	
	Or. signifera	4	4	
	Ps. columbiae	2	2	
	Ps. ferox	6	61	
	Ur. sapphirina	2	2	
Burlington		504	6115	12
	Ae. albopictus	36	219	2
	Ae. vexans	44	400	1
	An. atropos	1	3	
	An. bradleyi	8	62	
	An. crucians	4	6	
	An. punctipennis	18	61	
	An. quadrimaculatus	15	26	
	Cq. perturbans	26	372	
	Cs. inornata	1	1	
	Cs. melanura	67	703	1
	Cx. erraticus	13	30	
	Cx. mix	94	1732	6
	Cx. pipiens	15	209	1
	Cx. restuans	20	336	
	Cx. salinarius	10	54	
	Cx. territans	7	12	
	Oc. atlanticus	1	1	
	Oc. atropalpus	1	1	
	Oc. canadensis	34	947	
	Oc. cantator	12	433	
	Oc. grossbecki	5	32	
	Oc. japonicus	16	21	
	Oc. sollicitans	8	293	
	Oc. taeniorhynchus	2	4	
	Oc. triseriatus	31	119	
	Oc. trivittatus	2	3	
	Ps. columbiae	6	18	1
	Ps. ferox	3	10	
	Ur. sapphirina	4	7	
Camden		263	2674	5
	Ae. albopictus	32	97	
	Ae. vexans	29	474	
	An. atropos	2	2	
	An. bradleyi	7	165	
	An. crucians	4	163	
	An. punctipennis	17	34	
	An. quadrimaculatus	13	22	

Cq. perturbans	9	42	1
Cs. melanura	21	112	
Cx. erraticus	4	7	
Cx. mix	58	1195	4
Cx. pipiens	16	194	
Cx. restuans	14	98	
Oc. atropalpus	1	1	
Oc. canadensis	4	11	
Oc. triseriatus	20	31	
Oc. trivittatus	2	3	
Ps. columbiae	2	3	
Ps. ferox	2	4	
Ur. sapphirina	6	16	
Cape May	433	5761	3
Ae. albopictus	11	27	
Ae. vexans	4	50	
An. bradleyi	22	499	1
An. punctipennis	4	8	
An. quadrimaculatus	24	831	
Cq. perturbans	5	151	
Cs. melanura	61	501	
Cx. erraticus	13	377	
Cx. pipiens	165	1983	1
Cx. restuans	61	416	1
Cx. salinarius	11	285	
Cx. territans	1	4	
Oc. canadensis	7	205	
Oc. cantator	10	98	
Oc. sollicitans	13	212	
Oc. taeniorhynchus	13	97	
Oc. triseriatus	8	17	
Cumberland	465	4853	36
Ae. albopictus	6	13	
Ae. vexans	27	67	
An. bradleyi	12	38	
An. punctipennis	17	27	1
An. quadrimaculatus	30	66	
Cq. perturbans	10	15	
Cs. melanura	15	22	
Cx. erraticus	18	168	2
Cx. mix	74	791	4
Cx. pipiens	45	1409	22
Cx. restuans	22	655	2
Cx. salinarius	12	149	4
Oc. atropalpus	1	1	
Oc. canadensis	26	213	
Oc. cantator	30	209	
Oc. grossbecki	7	8	

	Oc. sollicitans	22	48	
	Oc. taeniorhynchus	36	433	
	Oc. triseriatus	40	472	
	Oc. trivittatus	1	3	
	Or. signifera	1	1	
	Ps. columbiae	7	28	1
	Ps. ferox	1	1	
	Ps. howardii	1	1	
	Ur. sapphirina	4	15	
Essex		199	2401	19
	Ae. albopictus	11	121	
	Ae. vexans	12	132	1
	An. punctipennis	4	6	
	An. quadrimaculatus	2	5	
	Cx. mix	101	1567	14
	Cx. pipiens	17	375	3
	Cx. restuans	9	29	
	Cx. salinarius	2	3	
	Oc. japonicus	22	64	1
	Oc. sticticus	2	46	
	Oc. triseriatus	12	39	
	Oc. trivittatus	3	9	
	Ps. ciliata	1	1	
	Ps. ferox	1	4	
Gloucester		504	7386	24
	Ae. albopictus	132	740	1
	Ae. vexans	9	32	
	An. punctipennis	9	13	
	An. quadrimaculatus	2	2	
	Cq. perturbans	2	3	
	Cx. erraticus	2	22	
	Cx. mix	272	6117	23
	Cx. pipiens	10	151	
	Cx. restuans	6	33	
	Cx. salinarius	4	20	
	Oc. grossbecki	1	1	
	Oc. japonicus	2	2	
	Oc. triseriatus	45	182	
	Ps. ferox	6	66	
	Ps. howardii	1	1	
	Ur. sapphirina	1	1	
Hudson		103	1867	8
	Ae. albopictus	7	165	
	Ae. vexans	4	11	
	Ae./Oc. spp.	1	1	
	An. punctipennis	1	4	
	An. quadrimaculatus	1	1	

	Cq. perturbans	5	88	
	Cx. erraticus	1	1	
	Cx. mix	45	351	4
	Cx. pipiens	11	279	3
	Cx. restuans	4	77	
	Cx. salinarius	20	867	1
	Oc. triseriatus	3	22	
Hunterdon		419	13487	10
	Ae. vexans	3	19	
	An. punctipennis	11	54	
	An. quadrimaculatus	2	10	
	Cx. mix	277	12161	10
	Cx. pipiens	14	72	
	Cx. restuans	20	481	
	Cx. salinarius	3	13	
	Oc. canadensis	2	14	
	Oc. japonicus	49	315	
	Oc. triseriatus	31	135	
	Oc. trivittatus	5	201	
	Ps. columbiae	2	12	
Mercer		89	662	4
	Ae. vexans	10	117	
	An. punctipennis	7	34	
	An. quadrimaculatus	2	4	
	Cx. mix	24	230	1
	Cx. pipiens	15	112	2
	Cx. restuans	8	44	1
	Cx. salinarius	8	88	
	Oc. japonicus	7	10	
	Oc. triseriatus	7	22	
	Ps. columbiae	1	1	
Middlesex		299	4735	36
	Ae. albopictus	5	40	
	Ae. vexans	14	55	
	An. bradleyi	2	12	
	An. crucians	1	2	
	An. punctipennis	9	18	
	An. quadrimaculatus	5	23	
	Cq. perturbans	8	80	1
	Cx. mix	129	2722	24
	Cx. pipiens	30	673	6
	Cx. restuans	16	419	2
	Cx. salinarius	15	383	1
	Oc. canadensis	1	1	
	Oc. cantator	11	61	1
	Oc. japonicus	11	23	1
	Oc. sollicitans	10	104	

	Oc. triseriatus	22	49	
	Oc. trivittatus	3	3	
	Ps. ciliata	1	2	
	Ps. columbiae	4	61	
	Ur. sapphirina	2	4	
Monmouth		668	7433	59
	Ae. albopictus	24	536	
	Ae. vexans	58	584	1
	An. barberi	2	2	
	An. punctipennis	19	52	2
	An. quadrimaculatus	8	9	1
	Cq. perturbans	5	6	
	Cx. erraticus	8	29	
	Cx. mix	240	3058	40
	Cx. pipiens	52	682	9
	Cx. restuans	29	752	2
	Cx. salinarius	14	75	2
	Oc. canadensis	12	45	
	Oc. cantator	14	66	
	Oc. japonicus	49	67	
	Oc. sollicitans	51	1229	1
	Oc. taeniorhynchus	5	14	
	Oc. triseriatus	57	150	1
	Oc. trivittatus	10	16	
	Ps. columbiae	2	19	
	Ur. sapphirina	9	42	
Morris		435	9754	36
	Ae. cinereus	9	249	
	Ae. vexans	35	839	2
	An. punctipennis	33	211	1
	An. quadrimaculatus	27	760	
	An. walkeri	3	19	
	Cq. perturbans	8	77	
	Cs. melanura	7	11	
	Cx. erraticus	2	7	
	Cx. mix	127	4504	26
	Cx. pipiens	31	862	2
	Cx. restuans	25	591	1
	Cx. salinarius	8	187	1
	Cx. territans	5	8	
	Oc. canadensis	8	131	
	Oc. grossbecki	3	101	
	Oc. japonicus	43	142	1
	Oc. sticticus	11	420	
	Oc. stimulans	5	151	
	Oc. triseriatus	20	52	1
	Oc. trivittatus	19	408	1
	Or. signifera	1	1	

	Ur. sapphirina	5	23	
Ocean		545	8552	24
	Ae. albopictus	17	100	
	Ae. vexans	51	403	
	An. bradleyi	15	76	
	An. punctipennis	8	16	
	An. quadrimaculatus	3	8	
	Cq. perturbans	19	260	
	Cs. melanura	24	79	1
	Cx. erraticus	1	1	
	Cx. mix	177	5090	21
	Cx. pipiens	12	164	1
	Cx. restuans	11	160	
	Cx. salinarius	28	436	
	Cx. territans	1	1	
	Oc. canadensis	21	253	
	Oc. cantator	30	171	
	Oc. grossbecki	1	1	
	Oc. japonicus	16	48	1
	Oc. sollicitans	44	1032	
	Oc. sticticus	1	1	
	Oc. taeniorhynchus	5	41	
	Oc. triseriatus	52	187	
	Ps. columbiae	1	1	
	Ps. ferox	5	19	
	Ur. sapphirina	2	4	
Passaic		388	10494	50
	Ae. cinereus	1	1	
	Ae. vexans	10	48	
	An. punctipennis	12	46	
	An. quadrimaculatus	11	52	1
	An. walkeri	1	2	
	Cq. perturbans	4	10	
	Cx. mix	250	9635	48
	Cx. pipiens	8	269	
	Cx. restuans	5	75	
	Cx. salinarius	3	4	
	Oc. canadensis	2	19	
	Oc. japonicus	48	204	1
	Oc. triseriatus	24	105	
	Oc. trivittatus	6	17	
	Ps. ferox	1	1	
	Ur. sapphirina	2	6	
Salem		837	10594	14
	Ae. albopictus	3	3	
	Ae. vexans	76	949	
	An. bradleyi	30	126	1

An. punctipennis	39	137	2
An. quadrimaculatus	110	1572	1
An. walkeri	3	5	
Cq. perturbans	10	19	
Cs. melanura	82	1251	
Cx. erraticus	66	1485	
Cx. mix	209	2750	7
Cx. pipiens	26	143	
Cx. restuans	24	288	2
Cx. salinarius	61	1399	1
Cx. territans	4	9	
Oc. canadensis	2	4	
Oc. cantator	14	49	
Oc. sollicitans	13	148	
Oc. taeniorhynchus	2	6	
Oc. thibaulti	2	3	
Oc. triseriatus	49	197	
Oc. trivittatus	1	1	
Ps. columbiae	1	10	
Ur. sapphirina	10	40	
Somerset	345	7332	23
Ae. vexans	7	13	
An. barberi	2	2	
An. punctipennis	11	30	
An. quadrimaculatus	4	4	
Cx. mix	170	6455	20
Cx. pipiens	13	301	
Cx. restuans	13	217	
Cx. salinarius	3	5	
Oc. canadensis	3	5	
Oc. japonicus	67	158	2
Oc. sticticus	1	1	
Oc. stimulans	1	1	
Oc. triseriatus	47	103	1
Oc. trivittatus	2	36	
Ps. ferox	1	1	
Sussex	665	18233	15
Ae. cinereus	10	95	
Ae. vexans	56	1879	
An. punctipennis	26	271	
An. quadrimaculatus	20	176	1
An. walkeri	4	144	
Cq. perturbans	44	1201	
Cs. morsitans	1	1	
Cx. mix	217	7898	12
Cx. pipiens	3	55	
Cx. restuans	13	343	
Cx. salinarius	5	208	

	Cx. territans	2	28	
	Oc. aurifer	1	24	
	Oc. canadensis	19	421	
	Oc. fitchii	1	49	
	Oc. japonicus	83	576	2
	Oc. sticticus	21	651	
	Oc. stimulans	8	207	
	Oc. triseriatus	49	541	
	Oc. trivittatus	78	3441	
	Or. signifera	1	1	
	Ur. sapphirina	3	23	
Union		140	3399	11
	Ae. albopictus	6	11	
	Ae. vexans	5	26	
	An. punctipennis	4	7	
	An. quadrimaculatus	2	3	
	Cx. mix	49	1781	11
	Cx. pipiens	31	869	
	Cx. restuans	19	646	
	Cx. salinarius	4	21	
	Oc. japonicus	6	9	
	Oc. sollicitans	1	1	
	Oc. triseriatus	13	25	
Warren		447	9041	4
	Ae. cinereus	1	3	
	Ae. vexans	13	118	
	An. crucians	1	5	
	An. punctipennis	30	111	
	An. quadrimaculatus	28	301	
	An. walkeri	9	356	
	Cq. perturbans	11	115	
	Cs. melanura	1	2	
	Cx. mix	210	7248	4
	Cx. pipiens	11	65	
	Cx. restuans	9	60	
	Cx. salinarius	1	1	
	Oc. atropalpus	1	2	
	Oc. canadensis	1	11	
	Oc. japonicus	64	372	
	Oc. stimulans	2	8	
	Oc. triseriatus	42	234	
	Oc. trivittatus	9	26	
	Or. signifera	1	1	
	Ur. sapphirina	2	2	
Grand Total		8946	168134	549

