

VECTOR SURVEILLANCE SUMMARY SHEET

WEEK: 13

Culiseta melanura Monitor

August 26 - 30, 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.)	6.7	0.8	172	33	0	Waterford (Camden Co.)	5.0	<0.1	7	7	0
Corbin City (Atlantic Co.)	2.0	0.1	80	29	0	Centerton (Salem Co.)	6.0	0.3	298	43	0
Dennisville (Cape May Co.)	13.3	0.2	213	32	0						

West Nile Virus Collections Submitted for Virus Isolation Attempts

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	493	283	175	2,153	320	150	136	411	96	303	141	177	967	5,805
Total Specimens	8,923	4,942	3,644	78,114	4,736	2,807	4,223	2,078	1,566	1,452	1,274	1,101	13,363	128,223
No. Positive Pools	59	12	13	268	5	0	1	3	2	7	2	0	18	390

Remarks: *Culiseta melanura* populations remain well below average at a time of year when the species should be on the increase. The adult females at each of the study sites are currently blood feeding to lay eggs that will hatch to produce the overwintering generation of larvae. It will be interesting to see how long it will take this species to recover from the affects of this year's drought. WNV activity in local mosquito populations has increased significantly in recent weeks. There have been 165 new positive pools alone, identified from samples collected since the last reporting period. Equine cases have now been confirmed from 5 counties including: Monmouth, Middlesex, Cumberland, Salem and Ocean. The vast majority of positives continue to come from *Culex* mosquitoes but surveillance clearly shows that a number of important bridge vectors are carrying WNV including *Cq. perturbans*, *Ae. vexans*, *Oc. sollicitans*, *Oc. cantator*, *Ps. columbiae*, *An. quadrimaculatus*, *Cx. salinarius* and, surprisingly, *Cx. erraticus*.

New Jersey Agricultural Experiment Station Publication No. PT-40500-13-02 Supported by State funds and funding by the NJ State Mosquito Control Commission. Summary Prepared by: Wayne J. Crans, Rutgers University

Submissions by County through September 3, 2002

County	Species	Pools	Mosquitoes	Positives
Atlantic		307	7876	19
	Ae. albopictus	7	15	
	Ae. vexans	23	498	
	An. bradleyi	2	23	
	An. punctipennis	1	2	
	An. quadrimaculatus	2	2	
	Cq. perturbans	5	31	
	Cs. melanura	28	88	
	Cx. erraticus	11	464	1
	Cx. mix	108	4033	14
	Cx. pipiens	4	54	3
	Cx. restuans	7	29	
	Cx. salinarius	6	83	
	Oc. canadensis	11	501	
	Oc. cantator	32	1224	
	Oc. grossbecki	6	69	
	Oc. japonicus	4	21	
	Oc. sollicitans	12	257	
	Oc. sticticus	5	74	
	Oc. taeniorhynchus	4	26	
	Oc. thibaulti	1	1	
	Oc. triseriatus	15	77	
	Oc. trivittatus	1	3	
	Or. signifera	1	3	
	Ps. ciliata	9	200	1
	Ps. ferox	2	98	
	(blank)			
Bergen		432	19629	92
	Ae. albopictus	6	29	
	Ae. cinereus	2	61	
	Ae. vexans	19	213	1
	An. punctipennis	9	31	
	An. quadrimaculatus	7	48	
	Cq. perturbans	3	13	
	Cs. melanura	3	17	
	Cx. mix	213	15207	69
	Cx. pipiens	41	1093	12
	Cx. restuans	26	636	2
	Cx. salinarius	38	1377	6
	Cx. territans	2	5	
	Oc. canadensis	5	66	
	Oc. japonicus	13	22	1
	Oc. sollicitans	6	79	1
	Oc. sticticus	1	2	
	Oc. taeniorhynchus	1	1	

	Oc. thibaulti	15	619	
	Oc. triseriatus	11	34	
	Oc. trivittatus	6	70	
	Or. signifera	3	3	
	Ps. columbiae	1	1	
	Ps. ferox	1	2	
Burlington		348	4673	8
	Ae. albopictus	15	58	2
	Ae. vexans	29	271	1
	An. atropos	1	3	
	An. bradleyi	6	38	
	An. crucians	4	6	
	An. punctipennis	12	34	
	An. quadrimaculatus	7	9	
	Cq. perturbans	26	372	
	Cs. inornata	1	1	
	Cs. melanura	39	259	
	Cx. erraticus	8	15	
	Cx. mix	77	1560	4
	Cx. pipiens	11	178	
	Cx. restuans	13	294	
	Cx. salinarius	7	47	
	Cx. territans	2	2	
	Oc. atlanticus	1	1	
	Oc. canadensis	34	947	
	Oc. cantator	10	427	
	Oc. grossbecki	5	32	
	Oc. japonicus	10	15	
	Oc. japonicus	1	1	
	Oc. sollicitans	1	1	
	Oc. triseriatus	22	95	
	Oc. trivittatus	1	2	
	Ps. columbiae	1	1	1
	Ps. ferox	2	2	
	Ur. sapphirina	2	2	
Camden		164	1877	5
	Ae. albopictus	20	56	
	Ae. vexans	17	289	
	An. atropos	2	2	
	An. bradleyi	3	10	
	An. crucians	4	163	
	An. punctipennis	10	20	
	An. quadrimaculatus	6	8	
	Cq. perturbans	8	40	1
	Cs. melanura	7	7	
	Cx. erraticus	1	1	
	Cx. mix	39	956	4
	Cx. pipiens	12	186	

	Cx. restuans	10	93	
	Oc. atropalpus	1	1	
	Oc. canadensis	4	11	
	Oc. triseriatus	15	25	
	Oc. trivittatus	2	3	
	Ps. columbiae	1	1	
	Ps. ferox	1	3	
	Ur. sapphirina	1	2	
Cape May		322	4849	3
	Ae. albopictus	4	12	
	Ae. vexans	3	29	
	An. bradleyi	16	396	1
	An. punctipennis	2	4	
	An. quadrimaculatus	19	794	
	Cq. perturbans	5	151	
	Cs. melanura	33	224	
	Cx. erraticus	7	350	1
	Cx. pipiens	139	1660	1
	Cx. restuans	50	376	
	Cx. salinarius	11	285	
	Cx. territans	1	4	
	Oc. canadensis	7	205	
	Oc. cantator	9	95	
	Oc. sollicitans	7	190	
	Oc. taeniorhynchus	6	64	
	Oc. triseriatus	3	10	
Cumberland		226	2214	27
	Ae. albopictus	3	10	
	Ae. vexans	15	31	
	An. bradleyi	1	1	
	An. punctipennis	4	6	
	An. quadrimaculatus	6	7	
	Cq. perturbans	5	6	
	Cs. melanura	10	16	
	Cx. erraticus	2	3	2
	Cx. mix	34	188	
	Cx. pipiens	29	1010	20
	Cx. restuans	5	70	1
	Cx. salinarius	8	86	3
	Oc. atropalpus	1	1	
	Oc. canadensis	24	186	
	Oc. cantator	21	184	
	Oc. grossbecki	7	8	
	Oc. sollicitans	12	15	
	Oc. taeniorhynchus	10	48	
	Oc. triseriatus	23	324	
	Oc. trivittatus	1	3	
	Ps. columbiae	4	10	1

	Ps. howardii	1	1	
Essex		117	1451	10
	Ae. albopictus	3	5	
	Ae. vexans	3	11	
	An. punctipennis	3	4	
	An. quadrimaculatus	1	4	
	Cx. pipiens	52	1148	7
	Cx. restuans	23	133	2
	Cx. salinarius	2	3	
	Oc. japonicus	16	50	1
	Oc. sticticus	2	46	
	Oc. triseriatus	8	34	
	Oc. trivittatus	2	8	
	Ps. ciliata	1	1	
	Ps. ferox	1	4	
Gloucester		248	3944	8
	Ae. albopictus	48	484	
	Ae. vexans	8	31	
	An. punctipennis	5	8	
	An. quadrimaculatus	1	1	
	Cq. perturbans	2	3	
	Cx. erraticus	2	22	
	Cx. mix	126	2964	8
	Cx. pipiens	10	151	
	Cx. restuans	6	33	
	Cx. salinarius	4	20	
	Oc. grossbecki	1	1	
	Oc. triseriatus	28	159	
	Ps. ferox	6	66	
	Ps. howardii	1	1	
	(blank)			
Hudson		13	134	1
	Ae. vexans	1	1	
	Cx. mix	10	130	1
	Cx. pipiens	2	3	

Hunterdon	302	10405	11
Ae. vexans	3	19	
An. punctipennis	8	41	
An. quadrimaculatus	2	10	
Cx. mix	191	9190	11
Cx. pipiens	14	72	
Cx. restuans	20	481	
Cx. salinarius	3	13	
Oc. canadensis	2	14	
Oc. japonicus	29	232	
Oc. japonicus	1	4	
Oc. triseriatus	22	116	
Oc. trivittatus	5	201	
Ps. columbiae	2	12	
Mercer	28	174	2
Ae. vexans	2	2	
An. punctipennis	3	11	
An. quadrimaculatus	2	4	
Cx. mix	1	8	1
Cx. pipiens	8	95	1
Cx. restuans	5	34	
Cx. salinarius	2	2	
Oc. japonicus	2	4	
Oc. triseriatus	3	14	
Middlesex	263	4416	39
Ae. albopictus	1	2	
Ae. vexans	13	51	
An. bradleyi	2	12	
An. crucians	1	2	
An. punctipennis	9	18	
An. quadrimaculatus	3	16	
Cq. perturbans	8	80	1
Cx. mix	116	2615	27
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	9	20	1
Oc. sollicitans	4	12	
Oc. triseriatus	21	48	
Oc. trivittatus	3	3	

Monmouth	484	5176	48
Ae. albopictus	18	514	
Ae. albopictus	1	1	
Ae. vexans	23	195	1
An. barberi	2	2	
An. punctipennis	15	35	2
An. quadrimaculatus	7	7	1
Cq. perturbans	5	6	
Cx. mix	189	2419	29
Cx. pipiens	46	644	9
Cx. restuans	16	290	2
Cx. salinarius	10	37	2
Oc. canadensis	10	41	
Oc. cantator	7	18	
Oc. japonicus	41	58	
Oc. sollicitans	32	759	1
Oc. taeniorhynchus	1	3	
Oc. triseriatus	50	130	1
Oc. trivittatus	10	16	
Ps. columbiae	1	1	
Morris	294	7450	26
Ae. cinereus	8	243	
Ae. vexans	30	807	2
An. punctipennis	17	92	1
An. quadrimaculatus	7	243	
An. walkeri	3	19	
Cq. perturbans	8	77	
Cx. mix	100	3675	17
Cx. pipiens	9	155	1
Cx. restuans	17	552	1
Cx. salinarius	7	186	1
Oc. canadensis	8	131	
Oc. grossbecki	3	101	
Oc. japonicus	33	146	1
Oc. sticticus	11	420	
Oc. stimulans	5	151	
Oc. triseriatus	10	37	1
Oc. trivittatus	16	404	1
Or. signifera	1	1	
Ur. sapphirina	1	10	

Ocean		373	6691	21
	Ae. albopictus	12	83	
	Ae. vexans	27	170	
	An. bradleyi	6	30	
	An. punctipennis	3	6	
	An. quadrimaculatus	2	6	
	Cq. perturbans	18	259	
	Cs. melanura	15	57	
	Cx. mix	140	4665	19
	Cx. pipiens	12	164	1
	Cx. restuans	11	160	
	Cx. salinarius	19	297	
	Cx. territans	1	1	
	Oc. canadensis	18	246	
	Oc. cantator	20	126	
	Oc. grossbecki	1	1	
	Oc. japonicus	7	26	1
	Oc. sollicitans	18	241	
	Oc. sticticus	1	1	
	Oc. taeniorhynchus	3	24	
	Oc. triseriatus	35	111	
	Ps. ferox	4	17	
Passaic		300	9344	40
	Ae. vexans	7	21	
	An. punctipennis	10	43	
	An. quadrimaculatus	8	49	1
	An. walkeri	1	2	
	Cq. perturbans	4	10	
	Cx. mix	200	8577	38
	Cx. pipiens	8	269	
	Cx. restuans	5	75	
	Cx. salinarius	3	4	
	Oc. canadensis	2	19	
	Oc. japonicus	28	164	1
	Oc. triseriatus	19	96	
	Oc. trivittatus	5	15	
Salem		388	4267	4
	Ae. vexans	28	118	
	An. bradleyi	6	26	
	An. punctipennis	20	79	2
	An. quadrimaculatus	60	782	1
	An. walkeri	2	2	
	Cq. perturbans	9	12	
	Cs. melanura	42	433	
	Cx. erraticus	10	111	
	Cx. mix	111	1773	1
	Cx. pipiens	17	106	

	Cx. restuans	6	42	
	Cx. salinarius	27	586	
	Cx. territans	2	5	
	Oc. canadensis	1	2	
	Oc. cantator	14	49	
	Oc. sollicitans	4	12	
	Oc. taeniorhynchus	1	2	
	Oc. thibaulti	2	3	
	Oc. triseriatus	26	124	
Somerset		266	6460	15
	Ae. vexans	6	12	
	An. barberi	1	1	
	An. punctipennis	8	20	
	An. quadrimaculatus	4	4	
	Cx. mix	142	5684	13
	Cx. pipiens	13	301	
	Cx. restuans	13	217	
	Cx. salinarius	3	5	
	Oc. canadensis	3	5	
	Oc. japonicus	36	99	1
	Oc. sticticus	1	1	
	Oc. stimulans	1	1	
	Oc. triseriatus	32	73	1
	Oc. trivittatus	2	36	
	Ps. ferox	1	1	
Sussex		491	15775	0
	Ae. cinereus	10	95	
	Ae. vexans	51	1867	
	An. punctipennis	16	233	
	An. quadrimaculatus	12	145	
	An. walkeri	1	25	
	Cq. perturbans	43	1199	
	Cs. morsitans	1	1	
	Cx. mix	150	6233	
	Cx. pipiens	1	15	
	Cx. restuans	11	310	
	Cx. salinarius	5	208	
	Cx. territans	1	2	
	Oc. aurifer	1	24	
	Oc. canadensis	19	421	
	Oc. fitchii	1	49	
	Oc. japonicus	31	307	
	Oc. sticticus	21	651	
	Oc. stimulans	8	207	
	Oc. triseriatus	29	343	
	Oc. trivittatus	77	3438	
	Or. signifera	1	1	
	Ur. sapphirina	1	1	

Union	116	3041	8
Ae. albopictus	3	5	
Ae. vexans	5	26	
An. punctipennis	4	7	
An. quadrimaculatus	2	3	
Cx. mix	35	1383	8
Cx. pipiens	31	923	
Cx. restuans	18	645	
Cx. salinarius	4	21	
Oc. japonicus	4	6	
Oc. triseriatus	10	22	
Warren	323	8377	2
Ae. cinereus	1	3	
Ae. vexans	7	74	
An. crucians	1	5	
An. punctipennis	15	78	
An. quadrimaculatus	21	289	
An. walkeri	9	356	
Cq. perturbans	11	115	
Cx. mix	171	6854	2
Cx. pipiens	4	23	
Cx. restuans	5	53	
Cx. salinarius	1	1	
Oc. atropalpus	1	2	
Oc. canadensis	1	11	
Oc. japonicus	38	277	
Oc. stimulans	2	8	
Oc. triseriatus	29	206	
Oc. trivittatus	5	21	
Or. signifera	1	1	
Grand Total	5805	128223	390