

VECTOR SURVEILLANCE SUMMARY SHEET

FINAL SEASON SUMMATION

Culiseta melanura Monitor 2005 Season

Coastal Resting Boxes						Inland Resting Boxes					
Sites	Mean From Previous Years	No. Per Box For This Collection	Total Collected	Total Pools Submitted	EEE Isolations	Sites	Mean From Previous Years	No. Per Box For This Collection	Total Collected	Total Pools Submitted	EEE Isolations
Green Bank (Burlington Co.)			1,183	69	5	Waterford (Camden Co.)			199	29	0
Corbin City (Atlantic Co.)			649	69	0	Centerton (Salem Co.)			974	75	3
Dennisville (Cape May Co.)			5,067	138	2	Turkey Swamp (Monmouth Co.)			1,019	75	5

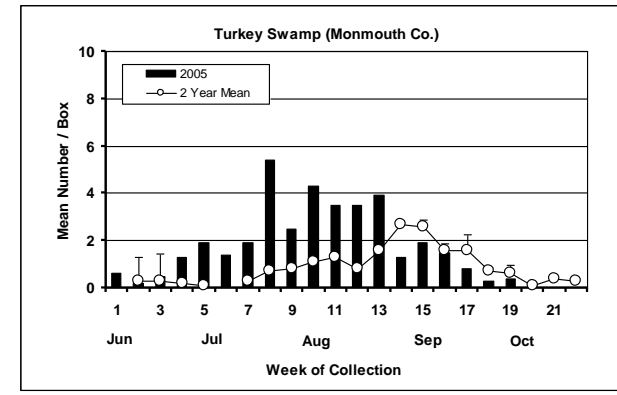
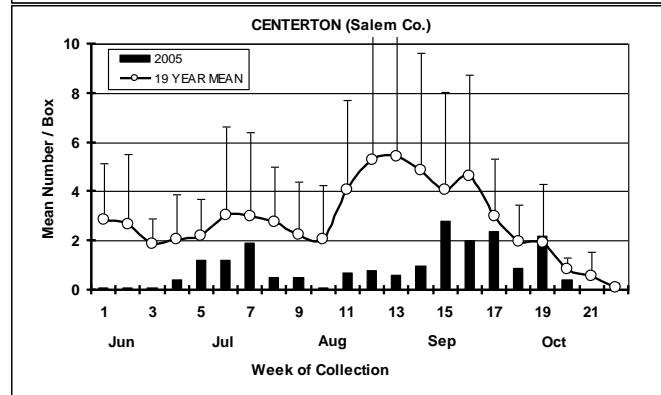
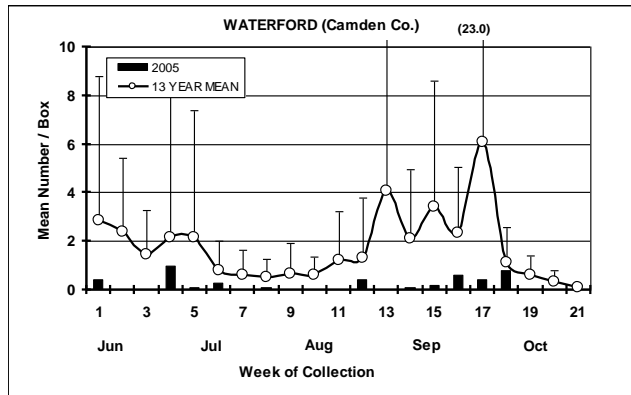
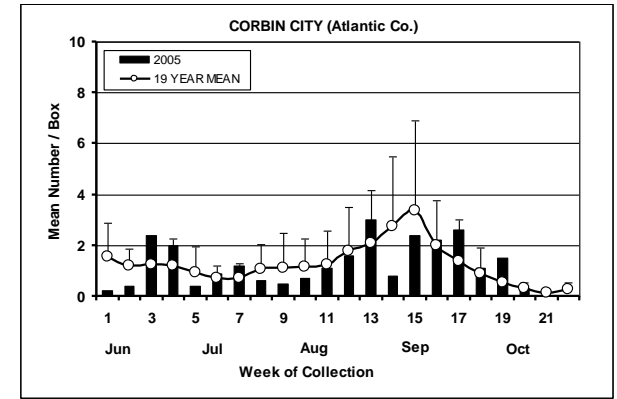
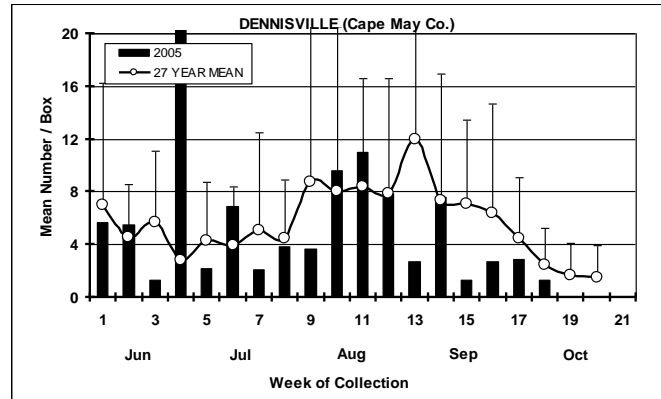
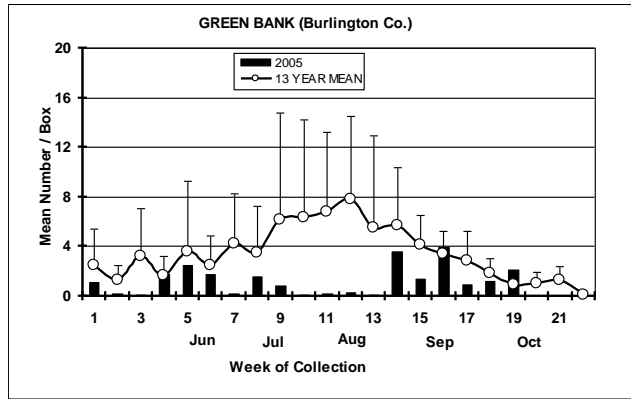
Collections submitted to PHEL for West Nile Virus testing

Species	<i>Cx. pip</i>	<i>Cx. rest</i>	<i>Cx. sal</i>	<i>Cx. spp.</i>	<i>Cs. mel</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>	Other	TOTALS
No. Pools	579	206	112	2,155	623	176	30	14	273	80	547	327	747	5,869
Total Specimens	16,215	2,397	2,212	74,650	11,183	2,569	365	367	1,046	2,532	2,744	2,418	8,271	126,969
No. Positive Pools	73	6	0	214	1	1	0	0	1	0	1	0	1	298
Season MIR	4.50	2.50	0	2.87	0.09	0.40	0	0	0.96	0	0.36	0	0.12	2.35

Remarks: New Jersey's Vector Surveillance Program processed 9,091 *Cs. melanura* from resting boxes in 2005 and tested the specimens in 455 pools. Fifteen (15) of the pools from those collections tested positive for EEE. There were 4 confirmed equine cases of EEE from 4 southern counties (Gloucester, Ocean, Monmouth, Burlington) in 2005. No human cases of EEE were reported during the season. The program tested 126,969 mosquitoes for WNV in 5,869 pools and obtained 298 positives. Of that total, 294 positives (98.7%) were obtained from bird feeding mosquitoes. Single positives were obtained from 4 different mammalian feeding bridge vector species (*Ae. vexans*, *Oc. triseriatus*, *Oc. japonicus* & *An. quadrimaculatus*). Four human cases were confirmed during the season. No equine cases of WNV were reported in 2005.

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Culiseta melanura Population Graphs



Mosquito Species Tested for West Nile Virus in 2005

Species	Pools	Mosquitoes	Positives
Ae. albopictus	327	2418	
Ae. cinereus	2	7	
Ae. vexans	176	2569	1
An. atropos	1	10	
An. barberi	4	6	
An. bradleyi	53	650	
An. crucians	2	3	
An. earlei	1	16	
An. punctipennis	134	689	
An. quadrimaculatus	125	2317	1
An. walkeri	4	13	
Cq. perturbans	92	1318	
Cs. inornata	3	3	
Cs. melanura	623	11183	1
Cs. morsitans	1	4	
Cx. erraticus	66	1486	
Cx. mix	2155	74650	214
Cx. pipiens	579	16215	73
Cx. restuans	206	2397	6
Cx. salinarius	112	2212	
Cx. territans	32	115	
Oc. abserratus	1	11	
Oc. atlanticus	11	27	
Oc. atropalpus	1	7	
Oc. canadensis	30	365	
Oc. cantator	24	54	
Oc. grossbecki	6	11	
Oc. japonicus	547	2744	1
Oc. mitchellae	1	1	
Oc. punctor	1	1	
Oc. sollicitans	80	2532	
Oc. sticticus	8	36	
Oc. stimulans	2	21	
Oc. taeniorhynchus	53	505	
Oc. triseriatus	273	1046	1
Oc. trivittatus	14	367	
Or. signifera	8	9	
Ps. ciliata	8	26	
Ps. columbiae	39	343	
Ps. cyanescens	1	1	
Ps. ferox	41	467	
Ps. howardii	4	24	
Ur. sapphirina	18	90	
Grand Total	5869	126969	298

Specimens Tested for WNV by County in 2005

County	Species	Pools	Mosquitoes	Positives
Atlantic		356	8400	13
	<i>Ae. albopictus</i>	33	404	
	<i>Ae. vexans</i>	17	175	
	<i>An. bradleyi</i>	2	4	
	<i>An. punctipennis</i>	2	2	
	<i>An. quadrimaculatus</i>	3	8	
	<i>Cq. perturbans</i>	14	404	
	<i>Cs. melanura</i>	81	739	
	<i>Cx. erraticus</i>	23	837	
	<i>Cx. mix</i>	93	3746	13
	<i>Cx. pipiens</i>	3	48	
	<i>Cx. restuans</i>	1	1	
	<i>Cx. salinarius</i>	7	219	
	<i>Cx. territans</i>	3	4	
	<i>Oc. atlanticus</i>	2	11	
	<i>Oc. cantator</i>	1	5	
	<i>Oc. japonicus</i>	13	65	
	<i>Oc. sollicitans</i>	33	1431	
	<i>Oc. sticticus</i>	1	5	
	<i>Oc. taeniorhynchus</i>	3	15	
	<i>Oc. triseriatus</i>	14	63	
	<i>Or. signifera</i>	1	2	
	<i>Ps. ferox</i>	6	212	
Bergen		406	21602	118
	<i>Ae. albopictus</i>	12	82	
	<i>Ae. vexans</i>	14	210	
	<i>An. punctipennis</i>	4	6	
	<i>Cq. perturbans</i>	3	7	
	<i>Cs. melanura</i>	4	72	
	<i>Cx. mix</i>	240	17030	98
	<i>Cx. pipiens</i>	71	3389	19
	<i>Cx. restuans</i>	11	96	1
	<i>Cx. salinarius</i>	16	591	
	<i>Oc. cantator</i>	1	2	
	<i>Oc. japonicus</i>	15	86	
	<i>Oc. sollicitans</i>	3	3	
	<i>Oc. triseriatus</i>	9	24	
	<i>Ps. ferox</i>	1	1	
	<i>Ur. sapphirina</i>	2	3	
Burlington		330	4822	3
	<i>Ae. albopictus</i>	29	333	
	<i>Ae. cinereus</i>	2	7	
	<i>Ae. vexans</i>	31	1168	
	<i>An. barberi</i>	1	1	
	<i>An. bradleyi</i>	3	33	
	<i>An. crucians</i>	1	2	
	<i>An. punctipennis</i>	10	82	
	<i>An. quadrimaculatus</i>	9	29	1
	<i>Cq. perturbans</i>	10	34	

	<i>Cs. inornata</i>	2	2	
	<i>Cs. melanura</i>	79	1337	
	<i>Cx. erraticus</i>	9	38	
	<i>Cx. mix</i>	39	647	2
	<i>Cx. pipiens</i>	5	107	
	<i>Cx. restuans</i>	2	2	
	<i>Cx. salinarius</i>	6	97	
	<i>Cx. territans</i>	3	7	
	<i>Oc. abserratus</i>	1	11	
	<i>Oc. atlanticus</i>	1	2	
	<i>Oc. atropalpus</i>	1	7	
	<i>Oc. canadensis</i>	4	12	
	<i>Oc. cantator</i>	1	3	
	<i>Oc. grossbecki</i>	3	8	
	<i>Oc. japonicus</i>	22	165	
	<i>Oc. mitchellae</i>	1	1	
	<i>Oc. sollicitans</i>	4	275	
	<i>Oc. sticticus</i>	2	9	
	<i>Oc. stimulans</i>	2	21	
	<i>Oc. taeniorhynchus</i>	1	3	
	<i>Oc. triseriatus</i>	19	146	
	<i>Oc. trivittatus</i>	1	4	
	<i>Or. signifera</i>	1	1	
	<i>Ps. ciliata</i>	3	4	
	<i>Ps. columbiae</i>	12	151	
	<i>Ps. cyanescens</i>	1	1	
	<i>Ps. ferox</i>	3	26	
	<i>Ps. howardii</i>	3	23	
	<i>Ur. sapphirina</i>	3	23	
Camden		135	1481	3
	<i>Ae. albopictus</i>	17	90	
	<i>Ae. vexans</i>	7	94	
	<i>An. crucians</i>	1	1	
	<i>An. punctipennis</i>	5	17	
	<i>An. quadrimaculatus</i>	7	15	
	<i>Cs. melanura</i>	29	200	
	<i>Cx. mix</i>	43	954	3
	<i>Cx. pipiens</i>	1	1	
	<i>Oc. japonicus</i>	18	69	
	<i>Oc. triseriatus</i>	2	2	
	<i>Or. signifera</i>	2	2	
	<i>Ur. sapphirina</i>	3	36	
Cape May		486	12501	5
	<i>Ae. albopictus</i>	31	155	
	<i>Ae. vexans</i>	1	8	
	<i>An. bradleyi</i>	15	468	
	<i>An. punctipennis</i>	2	79	
	<i>An. quadrimaculatus</i>	20	1062	
	<i>Cq. perturbans</i>	10	143	
	<i>Cs. melanura</i>	195	6620	1
	<i>Cx. erraticus</i>	6	107	
	<i>Cx. mix</i>	17	527	1
	<i>Cx. pipiens</i>	80	1620	1

	Cx. restuans	56	667	2
	Cx. salinarius	23	646	
	Cx. territans	7	53	
	Oc. cantator	1	2	
	Oc. japonicus	4	13	
	Oc. sollicitans	6	169	
	Oc. taeniorhynchus	5	137	
	Oc. triseriatus	7	25	
Cumberland		239	1131	0
	Ae. albopictus	4	4	
	Ae. vexans	12	16	
	An. bradleyi	19	88	
	An. punctipennis	6	8	
	An. quadrimaculatus	8	10	
	Cq. perturbans	2	2	
	Cs. melanura	55	179	
	Cx. mix	57	445	
	Oc. atlanticus	6	8	
	Oc. canadensis	3	3	
	Oc. cantator	5	6	
	Oc. grossbecki	1	1	
	Oc. sollicitans	5	10	
	Oc. sticticus	3	3	
	Oc. taeniorhynchus	41	329	
	Oc. triseriatus	2	2	
	Ps. ferox	9	16	
	Ur. sapphirina	1	1	
Essex		207	3482	15
	Ae. albopictus	25	70	
	Ae. vexans	15	234	
	An. quadrimaculatus	4	8	
	Cq. perturbans	1	1	
	Cx. mix	127	3011	15
	Oc. japonicus	22	126	
	Oc. sticticus	1	3	
	Oc. triseriatus	5	12	
	Oc. trivittatus	1	2	
	Ps. ciliata	1	9	
	Ps. ferox	4	5	
	Ur. sapphirina	1	1	
Gloucester		195	4358	4
	Ae. albopictus	14	44	
	Ae. vexans	2	2	
	An. punctipennis	4	6	
	An. quadrimaculatus	2	2	
	Cx. mix	1	45	
	Cx. pipiens	146	4161	4
	Oc. japonicus	19	89	
	Oc. triseriatus	6	8	
	Ps. columbiae	1	1	
Hudson		209	5962	24

	Cx. mix	209	5962	24
Hunterdon		263	8779	4
	Ae. albopictus	1	4	
	Ae. vexans	4	40	
	An. bradleyi	1	10	
	An. punctipennis	7	13	
	An. quadrimaculatus	1	3	
	Cx. mix	192	7984	4
	Cx. pipiens	25	517	
	Cx. restuans	17	174	
	Cx. salinarius	1	4	
	Cx. territans	2	3	
	Oc. japonicus	10	25	
	Oc. triseriatus	1	1	
	Ps. columbiae	1	1	
Mercer		421	9094	53
	Ae. albopictus	48	328	
	Ae. vexans	20	266	1
	An. bradleyi	1	2	
	An. punctipennis	13	62	
	An. quadrimaculatus	8	56	
	Cq. perturbans	3	72	
	Cs. melanura	5	15	
	Cx. erraticus	7	57	
	Cx. mix	51	2380	8
	Cx. pipiens	142	4631	41
	Cx. restuans	52	688	2
	Cx. salinarius	7	126	
	Oc. japonicus	40	147	1
	Oc. triseriatus	11	44	
	Oc. trivittatus	1	4	
	Or. signifera	1	1	
	Ps. ciliata	1	6	
	Ps. columbiae	6	97	
	Ps. ferox	3	111	
	Ps. howardii	1	1	
Middlesex		414	8068	23
	Ae. albopictus	27	157	
	Ae. vexans	9	38	
	An. bradleyi	1	2	
	An. punctipennis	3	24	
	An. quadrimaculatus	4	24	
	Cq. perturbans	3	105	
	Cs. melanura	2	6	
	Cx. erraticus	1	1	
	Cx. mix	174	6064	17
	Cx. pipiens	66	900	5
	Cx. restuans	26	318	
	Cx. salinarius	9	99	
	Cx. territans	1	1	
	Oc. japonicus	42	164	
	Oc. sollicitans	4	9	

	Oc. triseriatus	28	81	1
	Or. signifera	2	2	
	Ps. ciliata	1	1	
	Ps. columbiae	8	58	
	Ps. ferox	1	2	
	Ur. sapphirina	2	12	
Monmouth		464	5618	10
	Ae. albopictus	29	67	
	Ae. vexans	18	143	
	An. barberi	1	1	
	An. punctipennis	10	28	
	An. quadrimaculatus	3	19	
	Cq. perturbans	5	9	
	Cs. melanura	80	1006	
	Cx. erraticus	4	10	
	Cx. mix	161	3139	7
	Cx. pipiens	22	198	3
	Cx. restuans	6	13	
	Cx. salinarius	4	5	
	Cx. territans	5	21	
	Oc. atlanticus	1	1	
	Oc. canadensis	13	121	
	Oc. cantator	10	27	
	Oc. japonicus	35	145	
	Oc. sollicitans	16	461	
	Oc. taeniorhynchus	3	21	
	Oc. triseriatus	29	154	
	Ps. columbiae	4	6	
	Ps. ferox	5	23	
Morris		173	3348	1
	Ae. vexans	2	17	
	An. punctipennis	4	10	
	An. quadrimaculatus	2	2	
	Cq. perturbans	2	5	
	Cx. mix	93	2826	
	Cx. pipiens	2	115	
	Cx. restuans	2	47	1
	Oc. japonicus	44	248	
	Oc. triseriatus	21	74	
	Ps. ferox	1	4	
Ocean		356	6257	5
	Ae. albopictus	47	652	
	Ae. vexans	9	40	
	An. barberi	1	1	
	An. bradleyi	2	6	
	An. punctipennis	2	2	
	An. quadrimaculatus	2	6	
	Cq. perturbans	9	77	
	Cs. melanura	16	51	
	Cs. morsitans	1	4	
	Cx. erraticus	1	1	
	Cx. mix	110	3987	5

	Cx. pipiens	3	186	
	Cx. restuans	19	137	
	Cx. salinarius	38	424	
	Cx. territans	3	5	
	Oc. atlanticus	1	5	
	Oc. canadensis	8	206	
	Oc. cantator	5	9	
	Oc. japonicus	42	184	
	Oc. sollicitans	9	174	
	Oc. triseriatus	24	70	
	Ps. columbiae	1	19	
	Ps. ferox	3	11	
Passaic		165	4141	11
	Ae. albopictus	5	16	
	Ae. vexans	1	4	
	An. punctipennis	3	10	
	Cx. mix	132	3780	11
	Oc. japonicus	20	310	
	Oc. triseriatus	4	21	
Salem		300	3615	0
	Ae. vexans	1	1	
	An. bradleyi	9	37	
	An. punctipennis	14	210	
	An. quadrimaculatus	28	956	
	Cq. perturbans	8	18	
	Cs. melanura	76	957	
	Cx. erraticus	14	428	
	Cx. mix	87	899	
	Cx. restuans	2	2	
	Cx. salinarius	1	1	
	Cx. territans	6	18	
	Oc. japonicus	32	55	
	Oc. triseriatus	9	10	
	Ps. ciliata	2	6	
	Ps. columbiae	6	10	
	Ps. ferox	4	4	
	Ur. sapphirina	1	3	
Somerset		180	4118	1
	Ae. vexans	2	58	
	An. barberi	1	3	
	An. punctipennis	5	20	
	Cx. mix	110	3414	1
	Oc. japonicus	36	232	
	Oc. triseriatus	20	97	
	Oc. trivittatus	5	242	
	Ps. ferox	1	52	
Sussex		283	2181	0
	Ae. vexans	8	51	
	An. atropos	1	10	
	An. earlei	1	16	
	An. punctipennis	33	97	

	An. quadrimaculatus	16	63	
	An. walkeri	4	13	
	Cq. perturbans	19	408	
	Cs. melanura	1	1	
	Cx. mix	70	863	
	Cx. pipiens	1	11	
	Cx. restuans	1	1	
	Oc. canadensis	2	23	
	Oc. grossbecki	1	1	
	Oc. japonicus	72	348	
	Oc. sticticus	1	16	
	Oc. triseriatus	43	170	
	Oc. trivittatus	5	80	
	Ur. sapphirina	4	9	
Union		78	1077	3
	Ae. albopictus	5	12	
	Ae. vexans	2	3	
	An. punctipennis	3	6	
	An. quadrimaculatus	7	37	
	Cq. perturbans	1	1	
	Cx. erraticus	1	7	
	Cx. mix	17	392	3
	Cx. pipiens	12	331	
	Cx. restuans	11	251	
	Cx. territans	2	3	
	Oc. grossbecki	1	1	
	Oc. japonicus	9	19	
	Oc. punctor	1	1	
	Oc. triseriatus	4	10	
	Or. signifera	1	1	
	Ur. sapphirina	1	2	
Warren		208	6932	2
	Ae. vexans	1	1	
	An. punctipennis	4	7	
	An. quadrimaculatus	1	17	
	Cq. perturbans	2	32	
	Cs. inornata	1	1	
	Cx. mix	132	6555	2
	Oc. japonicus	51	252	
	Oc. triseriatus	15	32	
	Oc. trivittatus	1	35	
Grand Total		5868	126967	298