

VECTOR SURVEILLANCE SUMMARY SHEET

FINAL SEASON SUMMATION

Culiseta melanura Monitor 2004 Season

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.)			1,818	85	4	Waterford (Camden Co.)			1,807	78	1
Corbin City (Atlantic Co.)			1,144	77	2	Centerton (Salem Co.)			3,547	115	9
Dennisville (Cape May Co.)			2,588	101	3	Turkey Swamp (Monmouth Co.)			637	67	0

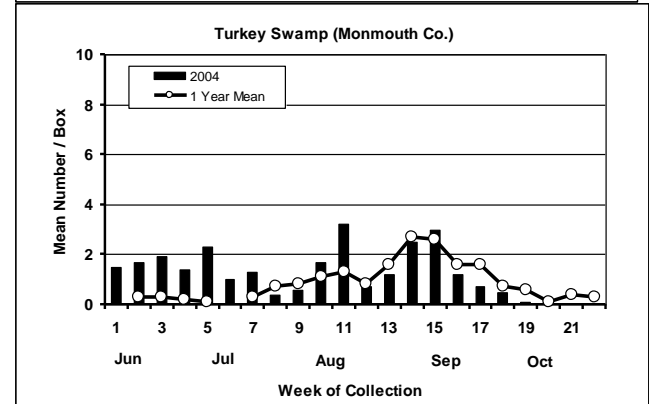
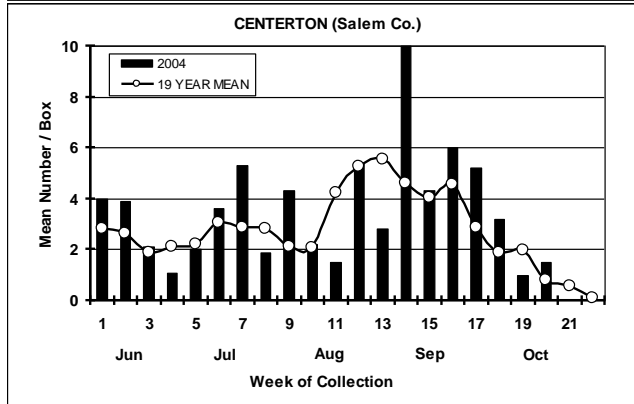
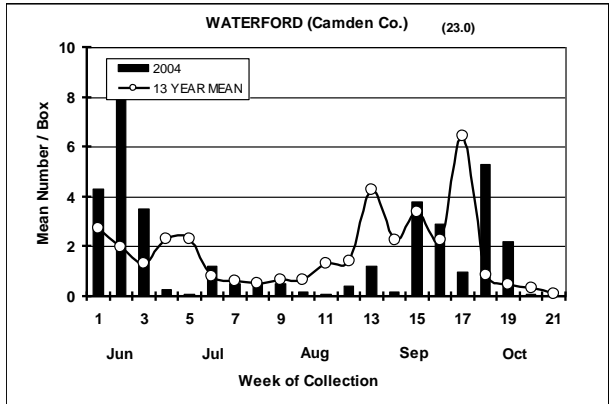
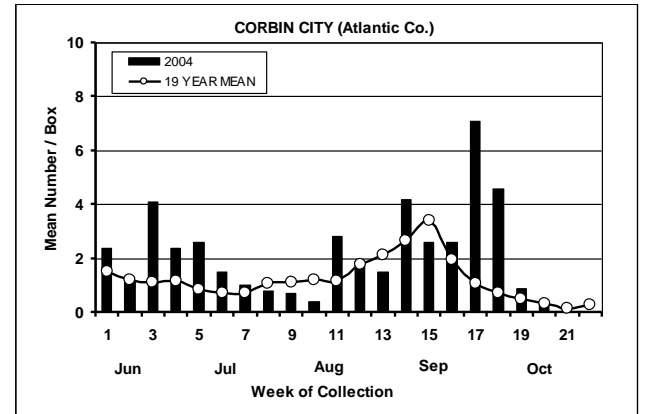
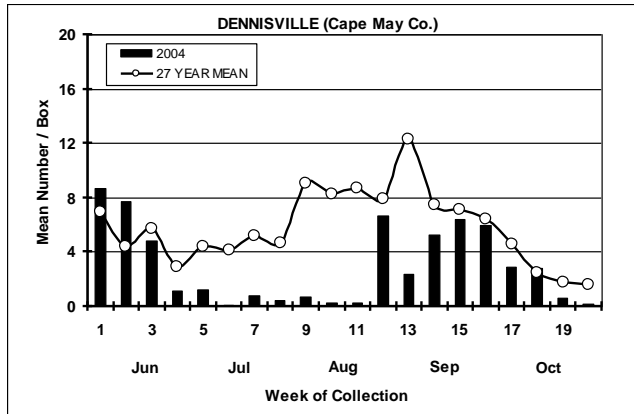
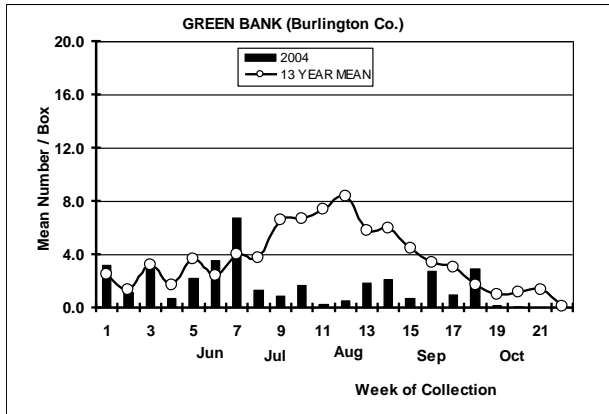
Collections submitted to PHEL for West Nile Virus testing

Species	<i>Cx. pip</i>	<i>Cx. rest</i>	<i>Cx. sal</i>	<i>Cx. spp.</i>	<i>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	391	298	214	2,007	749	434	169	104	283	129	661	183	1,178	6,800
Total Specimens	10,318	5,016	5,968	63,667	14,094	6,850	1,935	1,823	1,120	2,531	3,840	1,061	14,336	132,559
No. Positive Pools	46	9	1	208	6	0	0	0	0	0	0	0	0	270
Season MIR	4.46	1.79	0.16	3.27	0.43	0	0	0	0	0	0	0	0	2.04

Remarks: New Jersey's Vector Surveillance Program processed 11,541 *Cs. melanura* from resting boxes in 2004 and tested the specimens for EEE in 523 pools. Nineteen *Cs. melanura* from those collections tested positive for EEE. One additional positive *Cs. melanura* pool was obtained from a light trap collection as a result of special surveillance following an equine case of EEE. There were 6 confirmed equine cases of EEE from 4 southern counties (Burlington, Camden, Cumberland, Gloucester) in 2004 with no human involvement. The program tested 132,559 total mosquitoes for WNV in 6,800 pools and obtained 270 positives. There were 6 confirmed equine cases of WNV from 4 counties (Burlington, Gloucester, Mercer, Salem) in 2004 with 1 human case (Camden). This report summarizes available mosquito data by species and county for the 2004 season.

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Culiseta melanura Population Graphs



**Mosquito Species Submitted for West Nile Virus Testing
2004 Season**

Species	Pools	Mosquitoes	Positives
Aedes albopictus	183	1061	
Aedes cinereus	14	115	
Aedes vexans	434	6850	
Anopheles barberi	7	8	
Anopheles bradleyi	48	457	
Anopheles crucians	4	6	
Anopheles punctipennis	224	1409	
Anopheles quadrimaculatus	197	4506	
Anopheles walkeri	12	172	
Coquillettidia perturbans	116	1504	
Cules salinarius	1	2	
Culex erraticus	58	700	
Culex melanura	1	1	
Culex pipiens	391	10318	46
Culex restuans	298	5016	9
Culex salinarius	214	5968	1
Culex spp.	2007	63667	208
Culex territans	75	329	
Culiseta melanura	749	14094	6
Culiseta morsitans	1	1	
Ochlerotatus abserratus	2	13	
Ochlerotatus atlanticus	6	13	
Ochlerotatus atropalpus	2	11	
Ochlerotatus canadensis	169	1935	
Ochlerotatus cantator	54	986	
Ochlerotatus excrucians	3	4	
Ochlerotatus grossbecki	13	26	
Ochlerotatus japonicus	661	3840	
Ochlerotatus mitchellae	3	4	
Ochlerotatus punctor	1	4	
Ochlerotatus sollicitans	129	2531	
Ochlerotatus sticticus	17	142	
Ochlerotatus stimulans	8	38	
Ochlerotatus taeniorhynchus	21	199	
Ochlerotatus thibaulti	1	1	
Ochlerotatus triseriatus	283	1120	
Ochlerotatus trivittatus	104	1823	
Orthopodomyia signifera	9	14	
Psorophora ciliata	38	280	
Psorophora columbiae	71	840	
Psorophora discolor	1	1	
Psorophora ferox	99	1922	
Psorophora howardii	4	15	
Uranotaenia sapphirina	67	613	
Grand Total	6800	132559	270

Submissions by County for the 2004 Season

County	Species	Pools	Mosquitoes	Positives
Atlantic		489	9491	10
	Aedes albopictus	25	149	
	Aedes cinereus	1	35	
	Aedes vexans	48	803	
	Anopheles bradleyi	13	53	
	Anopheles punctipennis	4	9	
	Anopheles quadrimaculatus	6	10	
	Coquillettidia perturbans	11	158	
	Culex erraticus	8	127	
	Culex pipiens	8	192	1
	Culex restuans	15	135	
	Culex salinarius	4	41	
	Culex spp.	105	3442	9
	Culex territans	6	24	
	Culiseta melanura	100	1711	
	Ochlerotatus canadensis	17	331	
	Ochlerotatus cantator	23	794	
	Ochlerotatus japonicus	21	108	
	Ochlerotatus sollicitans	35	1103	
	Ochlerotatus taeniorhynchus	12	79	
	Ochlerotatus triseriatus	21	144	
	Ochlerotatus trivittatus	2	4	
	Orthopodomyia signifera	1	4	
	Psorophora ferox	2	34	
	Uranotaenia sapphirina	1	1	
Bergen		322	18405	66
	Aedes albopictus	6	82	
	Aedes cinereus	2	25	
	Aedes vexans	19	1023	
	Coquillettidia perturbans	1	69	
	Culex pipiens	25	1364	7
	Culex restuans	4	37	
	Culex salinarius	37	2520	1
	Culex spp.	198	12612	58
	Culiseta melanura	1	1	
	Ochlerotatus canadensis	1	3	
	Ochlerotatus cantator	1	1	
	Ochlerotatus japonicus	9	201	
	Ochlerotatus sollicitans	10	410	
	Ochlerotatus triseriatus	7	42	
	Ochlerotatus trivittatus	1	15	
Burlington		369	5703	14
	Aedes albopictus	23	112	
	Aedes cinereus	1	3	

Aedes vexans	35	862	
Anopheles barberi	1	1	
Anopheles bradleyi	1	5	
Anopheles crucians	2	4	
Anopheles punctipennis	14	57	
Anopheles quadrimaculatus	15	55	
Coquillettidia perturbans	7	49	
Culex erraticus	9	21	
Culex pipiens	14	608	3
Culex restuans	4	190	1
Culex salinarius	4	8	
Culex spp.	40	1050	6
Culex territans	6	15	
Culiseta melanura	102	2073	4
Ochlerotatus abserratus	1	9	
Ochlerotatus atlanticus	1	2	
Ochlerotatus atropalpus	1	3	
Ochlerotatus canadensis	5	20	
Ochlerotatus cantator	1	2	
Ochlerotatus grossbecki	1	6	
Ochlerotatus japonicus	28	76	
Ochlerotatus mitchellae	3	4	
Ochlerotatus sollicitans	6	106	
Ochlerotatus sticticus	2	13	
Ochlerotatus stimulans	1	4	
Ochlerotatus taeniorhynchus	1	7	
Ochlerotatus triseriatus	11	44	
Ochlerotatus trivittatus	4	19	
Orthopodomyia signifera	1	2	
Psorophora ciliata	5	26	
Psorophora columbiae	9	201	
Psorophora ferox	6	18	
Psorophora howardii	1	7	
Uranotaenia sapphirina	3	21	
Camden	287	2868	2
Aedes albopictus	16	76	
Aedes cinereus	1	1	
Aedes vexans	13	79	
Anopheles barberi	1	1	
Anopheles bradleyi	5	17	
Anopheles punctipennis	24	67	
Anopheles quadrimaculatus	15	41	
Coquillettidia perturbans	8	26	
Culex erraticus	2	2	
Culex pipiens	11	100	1
Culex restuans	8	55	
Culex salinarius	1	1	

Culex spp.	23	214	1
Culex territans	7	27	
Culiseta melanura	97	1895	
Ochlerotatus atlanticus	1	1	
Ochlerotatus canadensis	7	17	
Ochlerotatus japonicus	16	46	
Ochlerotatus triseriatus	8	12	
Ochlerotatus trivittatus	4	4	
Orthopodomyia signifera	1	2	
Psorophora columbiae	1	1	
Psorophora ferox	10	111	
Uranotaenia sapphirina	7	72	
Cape May	538	10468	6
Aedes albopictus	26	115	
Aedes vexans	2	10	
Anopheles bradleyi	13	339	
Anopheles punctipennis	7	33	
Anopheles quadrimaculatus	62	3369	
Coquillettidia perturbans	6	120	
Culex erraticus	12	307	
Culex pipiens	114	1688	2
Culex restuans	81	571	2
Culex salinarius	24	300	
Culex territans	13	92	
Culiseta melanura	142	3265	2
Ochlerotatus cantator	4	17	
Ochlerotatus japonicus	17	55	
Ochlerotatus sollicitans	8	83	
Ochlerotatus taeniorhynchus	4	95	
Ochlerotatus triseriatus	3	9	
Cumberland	359	2850	2
Aedes albopictus	1	1	
Aedes vexans	68	465	
Anopheles bradleyi	4	8	
Anopheles punctipennis	13	26	
Anopheles quadrimaculatus	3	3	
Coquillettidia perturbans	4	4	
Culex erraticus	3	3	
Culex pipiens	28	744	2
Culex restuans	19	154	
Culex salinarius	32	800	
Culex spp.	19	49	
Culiseta melanura	15	22	
Ochlerotatus canadensis	67	317	
Ochlerotatus cantator	13	17	
Ochlerotatus grossbecki	7	8	

	Ochlerotatus japonicus	19	54	
	Ochlerotatus sollicitans	13	28	
	Ochlerotatus triseriatus	8	11	
	Ochlerotatus trivittatus	2	2	
	Psorophora ciliata	2	6	
	Psorophora columbiae	18	127	
	Uranotaenia sapphirina	1	1	
Essex		205	2807	1
	Aedes albopictus	7	24	
	Aedes vexans	17	144	
	Anopheles punctipennis	1	1	
	Anopheles quadrimaculatus	2	2	
	Coquillettidia perturbans	10	77	
	Culex pipiens	1	4	
	Culex spp.	94	1597	1
	Ochlerotatus abserratus	1	4	
	Ochlerotatus canadensis	1	4	
	Ochlerotatus japonicus	19	79	
	Ochlerotatus sticticus	9	66	
	Ochlerotatus triseriatus	9	23	
	Ochlerotatus trivittatus	5	98	
	Psorophora ferox	29	684	
Gloucester		327	6442	38
	Aedes albopictus	20	113	
	Aedes vexans	14	103	
	Anopheles bradleyi	1	1	
	Anopheles crucians	1	1	
	Anopheles punctipennis	9	26	
	Anopheles quadrimaculatus	3	5	
	Coquillettidia perturbans	1	1	
	Culex pipiens	13	537	3
	Culex restuans	8	126	1
	Culex salinarius	7	87	
	Culex spp.	175	5103	34
	Culex territans	1	1	
	Culiseta melanura	8	101	
	Ochlerotatus canadensis	1	1	
	Ochlerotatus japonicus	40	144	
	Ochlerotatus sollicitans	1	1	
	Ochlerotatus triseriatus	12	28	
	Psorophora columbiae	3	15	
	Psorophora ferox	7	23	
	Uranotaenia sapphirina	2	25	
Hudson		213	5432	32
	Culex spp.	213	5432	32

Hunterdon	248	10397	17
Aedes vexans	2	87	
Anopheles punctipennis	2	19	
Anopheles quadrimaculatus	1	16	
Culex pipiens	5	18	
Culex spp.	223	9999	17
Ochlerotatus japonicus	6	35	
Ochlerotatus trivittatus	4	169	
Psorophora ciliata	3	31	
Psorophora columbiae	1	8	
Psorophora ferox	1	15	
Mercer	407	8573	35
Aedes albopictus	14	63	
Aedes cinereus	2	22	
Aedes vexans	27	476	
Anopheles punctipennis	18	237	
Anopheles quadrimaculatus	12	57	
Coquillettidia perturbans	7	181	
Culex erraticus	4	9	
Culex melanura	1	1	
Culex pipiens	79	2435	14
Culex restuans	52	941	2
Culex salinarius	8	68	
Culex spp.	55	2350	19
Culex territans	8	20	
Culiseta melanura	16	156	
Ochlerotatus atropalpus	1	8	
Ochlerotatus canadensis	10	458	
Ochlerotatus excrucians	2	3	
Ochlerotatus japonicus	39	165	
Ochlerotatus sticticus	1	40	
Ochlerotatus triseriatus	18	42	
Ochlerotatus trivittatus	5	93	
Orthopodomyia signifera	2	2	
Psorophora ciliata	1	8	
Psorophora columbiae	2	24	
Psorophora ferox	8	385	
Psorophora howardii	2	7	
Uranotaenia sapphirina	13	322	
Middlesex	57	803	0
Aedes albopictus	2	2	
Aedes vexans	4	35	
Anopheles punctipennis	4	7	
Culex pipiens	7	300	
Culex restuans	3	24	

	Culex spp.	16	338	
	Ochlerotatus japonicus	5	21	
	Ochlerotatus sollicitans	4	50	
	Ochlerotatus triseriatus	6	9	
	Ochlerotatus trivittatus	3	14	
	Orthopodomyia signifera	1	1	
	Psorophora columbiae	2	2	
Monmouth		628	7719	11
	Aedes albopictus	5	10	
	Aedes vexans	47	606	
	Anopheles barberi	3	3	
	Anopheles punctipennis	33	223	
	Anopheles quadrimaculatus	24	103	
	Coquillettidia perturbans	9	18	
	Culex erraticus	7	17	
	Culex pipiens	41	1572	10
	Culex restuans	29	718	1
	Culex salinarius	37	1704	
	Culex spp.	83	503	
	Culex territans	12	36	
	Culiseta melanura	79	619	
	Ochlerotatus atlanticus	3	8	
	Ochlerotatus canadensis	18	125	
	Ochlerotatus cantator	5	13	
	Ochlerotatus grossbecki	1	2	
	Ochlerotatus japonicus	72	428	
	Ochlerotatus sollicitans	18	283	
	Ochlerotatus sticticus	1	3	
	Ochlerotatus taeniorhynchus	2	3	
	Ochlerotatus triseriatus	51	329	
	Ochlerotatus trivittatus	9	30	
	Orthopodomyia signifera	1	1	
	Psorophora ciliata	11	60	
	Psorophora columbiae	13	246	
	Psorophora ferox	9	40	
	Uranotaenia sapphirina	5	16	
Morris		190	6260	3
	Aedes cinereus	1	10	
	Aedes vexans	6	69	
	Anopheles punctipennis	6	15	
	Anopheles quadrimaculatus	1	1	
	Coquillettidia perturbans	5	55	
	Culex pipiens	2	6	
	Culex restuans	1	1	
	Culex spp.	99	5046	3
	Ochlerotatus canadensis	3	87	

	Ochlerotatus japonicus	36	213	
	Ochlerotatus sticticus	1	13	
	Ochlerotatus stimulans	2	5	
	Ochlerotatus triseriatus	12	34	
	Ochlerotatus trivittatus	6	271	
	Psorophora ferox	9	434	
Ocean		507	5897	8
	Aedes albopictus	31	299	
	Aedes vexans	38	683	
	Anopheles bradleyi	2	2	
	Anopheles punctipennis	20	164	
	Anopheles quadrimaculatus	11	32	
	Coquillettidia perturbans	16	303	
	Cules salinarius	1	2	
	Culex pipiens	20	577	3
	Culex restuans	25	697	2
	Culex salinarius	42	331	
	Culex spp.	61	707	3
	Culex territans	4	8	
	Culiseta melanura	62	679	
	Ochlerotatus atlanticus	1	2	
	Ochlerotatus canadensis	19	341	
	Ochlerotatus cantator	1	50	
	Ochlerotatus grossbecki	4	10	
	Ochlerotatus japonicus	44	171	
	Ochlerotatus sollicitans	33	466	
	Ochlerotatus sticticus	2	2	
	Ochlerotatus taeniorhynchus	2	15	
	Ochlerotatus thibaulti	1	1	
	Ochlerotatus triseriatus	23	50	
	Ochlerotatus trivittatus	4	8	
	Orthopodomyia signifera	2	2	
	Psorophora ciliata	13	144	
	Psorophora columbiae	8	33	
	Psorophora ferox	8	97	
	Psorophora howardii	1	1	
	Uranotaenia sapphirina	8	20	
Passaic		191	3472	9
	Aedes albopictus	1	1	
	Aedes vexans	3	13	
	Anopheles punctipennis	3	53	
	Culex spp.	124	2830	9
	Ochlerotatus japonicus	51	486	
	Ochlerotatus triseriatus	8	31	
	Psorophora ferox	1	58	

Salem	421	6874	4
Aedes albopictus	2	2	
Aedes vexans	25	91	
Anopheles bradleyi	9	32	
Anopheles punctipennis	21	214	
Anopheles quadrimaculatus	28	753	
Anopheles walkeri	3	15	
Coquillettidia perturbans	7	13	
Culex erraticus	13	214	
Culex pipiens	6	9	
Culex restuans	17	598	
Culex salinarius	1	1	
Culex spp.	85	822	4
Culex territans	13	96	
Culiseta melanura	117	3551	
Ochlerotatus canadensis	1	1	
Ochlerotatus cantator	4	37	
Ochlerotatus japonicus	27	117	
Ochlerotatus sollicitans	1	1	
Ochlerotatus triseriatus	9	10	
Psorophora ciliata	2	4	
Psorophora columbiae	13	182	
Psorophora ferox	3	3	
Uranotaenia sapphirina	14	108	
Somerset	234	4484	6
Aedes vexans	6	36	
Anopheles punctipennis	5	10	
Anopheles quadrimaculatus	1	1	
Coquillettidia perturbans	2	6	
Culex pipiens	6	109	
Culex restuans	10	291	
Culex salinarius	1	2	
Culex spp.	119	3444	6
Culex territans	1	1	
Culiseta melanura	1	1	
Ochlerotatus canadensis	5	57	
Ochlerotatus japonicus	46	389	
Ochlerotatus sticticus	1	5	
Ochlerotatus triseriatus	20	89	
Ochlerotatus trivittatus	8	40	
Psorophora ciliata	1	1	
Psorophora ferox	1	2	
Sussex	441	5825	1
Aedes cinereus	6	19	
Aedes vexans	40	1075	
Anopheles barberi	1	1	

Anopheles crucians	1	1	
Anopheles punctipennis	28	230	
Anopheles quadrimaculatus	11	50	
Anopheles walkeri	9	157	
Coquillettidia perturbans	20	422	
Culex pipiens	11	55	
Culex restuans	21	475	
Culex salinarius	16	105	
Culex spp.	94	1790	1
Culex territans	4	9	
Culiseta melanura	9	20	
Culiseta morsitans	1	1	
Ochlerotatus canadensis	13	98	
Ochlerotatus japonicus	84	604	
Ochlerotatus stimulans	5	29	
Ochlerotatus triseriatus	27	114	
Ochlerotatus trivittatus	24	529	
Psorophora columbiae	1	1	
Psorophora ferox	2	13	
Uranotaenia sapphirina	13	27	
Union	74	2261	5
Aedes albopictus	4	12	
Culex spp.	52	2153	5
Ochlerotatus japonicus	13	90	
Ochlerotatus triseriatus	3	4	
Ochlerotatus trivittatus	1	1	
Psorophora discolor	1	1	
Warren	293	5528	0
Aedes vexans	20	190	
Anopheles barberi	1	2	
Anopheles punctipennis	12	18	
Anopheles quadrimaculatus	2	8	
Coquillettidia perturbans	2	2	
Culex restuans	1	3	
Culex spp.	129	4186	
Ochlerotatus canadensis	1	75	
Ochlerotatus cantator	2	55	
Ochlerotatus excrucians	1	1	
Ochlerotatus japonicus	69	358	
Ochlerotatus punctor	1	4	
Ochlerotatus triseriatus	27	95	
Ochlerotatus trivittatus	22	526	
Psorophora ferox	3	5	
Grand Total	6800	132559	270