

VECTOR SURVEILLANCE SUMMARY SHEET

WEEK:20
(Preliminary Season Summation)

Culiseta melanura Monitor
October 11 - 17, 2004

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.)	1.2	0.1	1,818	85	4	Waterford (Camden Co.)	0.4	0.1	1,807	78	1
Corbin City (Atlantic Co.)	0.3	0.4	1,144	77	1	Centerton (Salem Co.)	0.8	1.5	3,547	115	8
Dennisville (Cape May Co.)	1.6	0.2	2,588	101	4	Turkey Swamp (Monmouth Co.)	0.1	<0.1	636	66	0

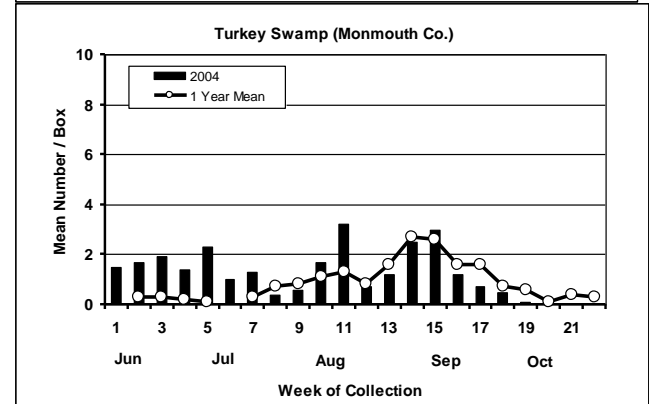
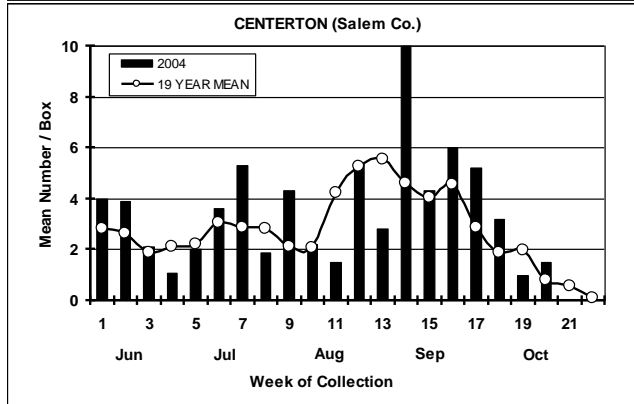
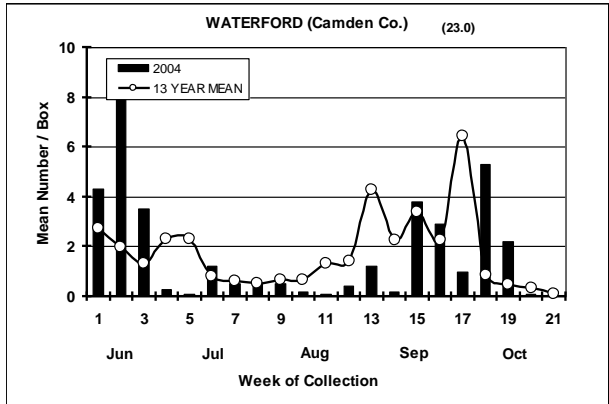
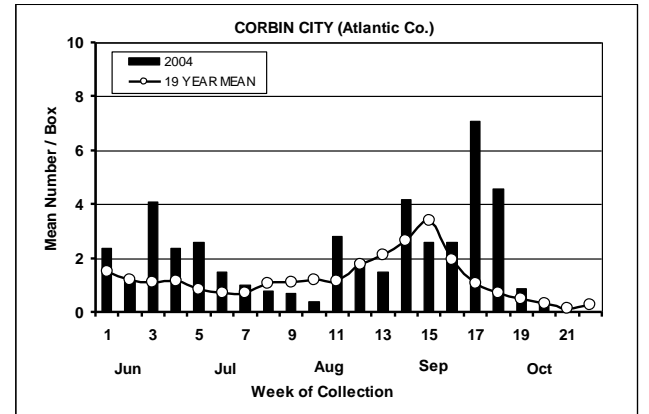
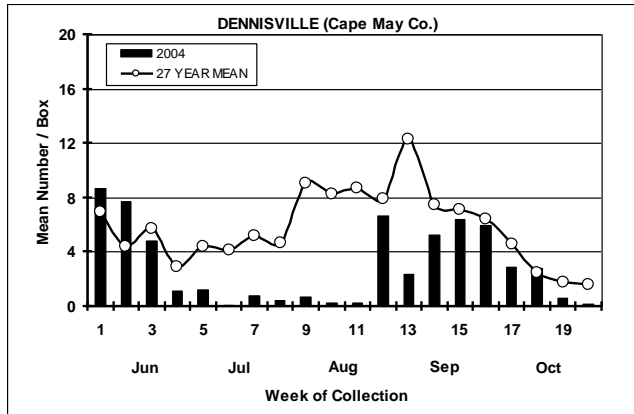
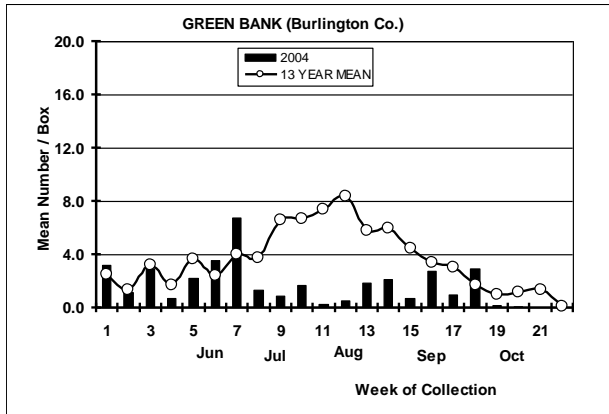
Collections submitted to PHEL for West Nile Virus testing

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	373	283	203	1,952	741	393	169	93	274	122	634	174	1,141	6,552
Total Specimens	10,002	4,914	5,378	63,172	14,073	5,888	1,935	1,395	1,101	2,418	3,680	1,014	23,194	129,164
No. Positive Pools	44	9	1	204	6	0	0	0	0	0	0	0	0	264

Remarks: The 2004 Vector Surveillance season began with above average levels of *Cs. melanura* at all of the study sites. EEE appeared at Green Bank. on July 12 followed quickly by positive pools from Centerton somewhat later in the month. Equine cases from Cumberland and Camden counties in early August signaled that EEE had gone beyond the amplification cycle and was being picked up by bridge vectors in some areas. Flooding conditions contributed significantly to potential vector populations in the southern part of the state. A total of 6 confirmed equine cases were reported from 4 southern counties during the season. EEE was detected at 5 of the 6 study sites monitored by this program. WNV activity began with reports of avian mortality from Atlantic Co. in May. The first evidence of WNV from mosquitoes was a pool of *Cx. restuans* from Cape May Co. that tested positive in early June. Surveillance indicated that WNV was confined largely to bird feeding mosquitoes all season. This is supported by the fact that only 1 human and 6 equine cases of WNV have, thus far, been reported from New Jersey.

New Jersey Agricultural Experiment Station Publication No. PT-08-40500-20-04 Supported by State funds and funding by the NJ State Mosquito Control Commission. Summary Prepared by: Wayne J. Crans, Rutgers University
--

Culiseta melanura Population Graphs



**Mosquito Species Submitted for West Nile Virus Testing through
October 15, 2004**

Species	Pools	Mosquitoes	Positives
Aedes albopictus	174	1014	
Aedes cinereus	13	101	
Aedes vexans	393	5888	
Anopheles barberi	7	8	
Anopheles bradleyi	47	453	
Anopheles crucians	3	5	
Anopheles punctipennis	213	1341	
Anopheles quadrimaculatus	190	4494	
Anopheles walkeri	12	172	
Coquillettidia perturbans	116	1504	
Culex erraticus	56	695	
Culex pipiens	373	10002	44
Culex restuans	283	4914	9
Culex salinarius	203	5378	1
Culex spp.	1952	63172	204
Culex territans	72	324	
Culiseta melanura	741	14073	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	634	3680	
Ochlerotatus mitchellae	3	4	
Ochlerotatus punctor	1	4	
Ochlerotatus sollicitans	122	2418	
Ochlerotatus sticticus	17	142	
Ochlerotatus stimulans	8	38	
Ochlerotatus taeniorhynchus	21	199	
Ochlerotatus thibaulti	1	1	
Ochlerotatus triseriatus	274	1101	
Ochlerotatus trivittatus	93	1395	
Orthopodomyia signifera	8	13	
Psorophora ciliata	38	280	
Psorophora columbiae	70	839	
Psorophora discolor	1	1	
Psorophora ferox	99	1922	
Psorophora howardii	4	15	
Uranotaenia sapphirina	60	585	
Grand Total	6552	129164	264

Submissions by County through October 15, 2004

County	Species	Pools	Mosquitoes	Positives
Atlantic		464	9196	10
	Aedes albopictus	23	146	
	Aedes cinereus	1	35	
	Aedes vexans	41	673	
	Anopheles bradleyi	12	49	
	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.	96	3312	9
	Culex territans	6	24	
	Culiseta melanura	98	1703	
	Ochlerotatus canadensis	17	331	
	Ochlerotatus cantator	23	794	
	Ochlerotatus japonicus	20	104	
	Ochlerotatus sollicitans	34	1089	
	Ochlerotatus taeniorhynchus	12	79	
	Ochlerotatus triseriatus	20	143	
	Ochlerotatus trivittatus	2	4	
	Orthopodomyia signifera	1	4	
	Psorophora ferox	2	34	
Bergen		292	17047	62
	Aedes albopictus	5	79	
	Aedes cinereus	1	11	
	Aedes vexans	15	723	
	Coquillettidia perturbans	1	69	
	Culex pipiens	22	1171	7
	Culex restuans	4	37	
	Culex salinarius	29	1945	1
	Culex spp.	192	12448	54
	Culiseta melanura	1	1	
	Ochlerotatus canadensis	1	3	
	Ochlerotatus cantator	1	1	
	Ochlerotatus japonicus	4	110	
	Ochlerotatus sollicitans	10	410	
	Ochlerotatus triseriatus	6	39	

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	280	2858	2
Aedes albopictus	16	76	
Aedes cinereus	1	1	
Aedes vexans	12	77	
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.	20	209	1
Culex territans	7	27	
Culiseta melanura	96	1894	
Ochlerotatus atlanticus	1	1	
Ochlerotatus canadensis	7	17	
Ochlerotatus japonicus	16	46	
Ochlerotatus triseriatus	8	12	
Ochlerotatus trivittatus	3	3	
Orthopodomyia signifera	1	2	
Psorophora columbiae	1	1	
Psorophora ferox	10	111	
Uranotaenia sapphirina	6	71	
Cape May	521	10332	6
Aedes albopictus	23	97	
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	112	1663	2
Culex restuans	71	485	2
Culex salinarius	24	300	
Culex territans	13	92	
Culiseta melanura	141	3262	2
Ochlerotatus cantator	4	17	
Ochlerotatus japonicus	16	51	
Ochlerotatus sollicitans	8	83	
Ochlerotatus taeniorhynchus	4	95	
Ochlerotatus triseriatus	3	9	
Cumberland	352	2825	2
Aedes albopictus	1	1	
Aedes vexans	65	460	
Anopheles bradleyi	4	8	
Anopheles punctipennis	13	26	
Anopheles quadrimaculatus	3	3	
Coquillettidia perturbans	4	4	
Culex erraticus	3	3	
Culex pipiens	26	726	2
Culex restuans	19	154	

	<i>Culex salinarius</i>	31	799	
	<i>Culex</i> spp.	19	49	
	<i>Culiseta melanura</i>	15	22	
	<i>Ochlerotatus canadensis</i>	67	317	
	<i>Ochlerotatus cantator</i>	13	17	
	<i>Ochlerotatus grossbecki</i>	7	8	
	<i>Ochlerotatus japonicus</i>	19	54	
	<i>Ochlerotatus sollicitans</i>	13	28	
	<i>Ochlerotatus triseriatus</i>	8	11	
	<i>Ochlerotatus trivittatus</i>	2	2	
	<i>Psorophora ciliata</i>	2	6	
	<i>Psorophora columbiae</i>	17	126	
	<i>Uranotaenia sapphirina</i>	1	1	
Essex		205	2807	1
	<i>Aedes albopictus</i>	7	24	
	<i>Aedes vexans</i>	17	144	
	<i>Anopheles punctipennis</i>	1	1	
	<i>Anopheles quadrimaculatus</i>	2	2	
	<i>Coquillettidia perturbans</i>	10	77	
	<i>Culex pipiens</i>	1	4	
	<i>Culex</i> spp.	94	1597	1
	<i>Ochlerotatus abserratus</i>	1	4	
	<i>Ochlerotatus canadensis</i>	1	4	
	<i>Ochlerotatus japonicus</i>	19	79	
	<i>Ochlerotatus sticticus</i>	9	66	
	<i>Ochlerotatus triseriatus</i>	9	23	
	<i>Ochlerotatus trivittatus</i>	5	98	
	<i>Psorophora ferox</i>	29	684	
Gloucester		327	6442	38
	<i>Aedes albopictus</i>	20	113	
	<i>Aedes vexans</i>	14	103	
	<i>Anopheles bradleyi</i>	1	1	
	<i>Anopheles crucians</i>	1	1	
	<i>Anopheles punctipennis</i>	9	26	
	<i>Anopheles quadrimaculatus</i>	3	5	
	<i>Coquillettidia perturbans</i>	1	1	
	<i>Culex pipiens</i>	13	537	3
	<i>Culex restuans</i>	8	126	1
	<i>Culex salinarius</i>	7	87	
	<i>Culex</i> spp.	175	5103	34
	<i>Culex territans</i>	1	1	
	<i>Culiseta melanura</i>	8	101	
	<i>Ochlerotatus canadensis</i>	1	1	
	<i>Ochlerotatus japonicus</i>	40	144	
	<i>Ochlerotatus sollicitans</i>	1	1	

	Ochlerotatus triseriatus	12	28	
	Psorophora columbiae	3	15	
	Psorophora ferox	7	23	
	Uranotaenia sapphirina	2	25	
Hudson		201	5330	32
	Culex spp.	201	5330	32
Hunterdon		243	10379	17
	Aedes vexans	2	87	
	Anopheles punctipennis	2	19	
	Anopheles quadrimaculatus	1	16	
	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		358	8269	33
	Aedes albopictus	12	41	
	Aedes cinereus	2	22	
	Aedes vexans	19	410	
	Anopheles punctipennis	12	181	
	Anopheles quadrimaculatus	7	49	
	Coquillettidia perturbans	7	181	
	Culex erraticus	2	4	
	Culex pipiens	75	2378	12
	Culex restuans	50	939	2
	Culex salinarius	8	68	
	Culex spp.	47	2302	19
	Culex territans	7	17	
	Culiseta melanura	13	148	
	Ochlerotatus atropalpus	1	8	
	Ochlerotatus canadensis	10	458	
	Ochlerotatus excrucians	2	3	
	Ochlerotatus japonicus	38	164	
	Ochlerotatus sticticus	1	40	
	Ochlerotatus triseriatus	18	42	
	Ochlerotatus trivittatus	4	92	
	Orthopodomyia signifera	1	1	
	Psorophora ciliata	1	8	
	Psorophora columbiae	2	24	
	Psorophora ferox	8	385	
	Psorophora howardii	2	7	
	Uranotaenia sapphirina	9	297	

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	599	7655	11
Aedes albopictus	5	10	
Aedes vexans	43	599	
Anopheles barberi	3	3	
Anopheles punctipennis	30	213	
Anopheles quadrimaculatus	22	99	
Coquillettidia perturbans	9	18	
Culex erraticus	7	17	
Culex pipiens	39	1567	10
Culex restuans	27	713	1
Culex salinarius	37	1704	
Culex spp.	79	493	
Culex territans	10	34	
Culiseta melanura	78	618	
Ochlerotatus atlanticus	3	8	
Ochlerotatus canadensis	18	125	
Ochlerotatus cantator	5	13	
Ochlerotatus grossbecki	1	2	
Ochlerotatus japonicus	67	416	
Ochlerotatus sollicitans	18	283	
Ochlerotatus sticticus	1	3	
Ochlerotatus taeniorhynchus	2	3	
Ochlerotatus triseriatus	48	322	
Ochlerotatus trivittatus	9	30	
Orthopodomyia signifera	1	1	
Psorophora ciliata	11	60	
Psorophora columbiae	13	246	
Psorophora ferox	9	40	
Uranotaenia sapphirina	4	15	

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	491	5765	8
Aedes albopictus	30	298	
Aedes vexans	35	671	
Anopheles bradleyi	2	2	
Anopheles punctipennis	20	164	
Anopheles quadrimaculatus	11	32	
Coquillettidia perturbans	16	303	
Culex pipiens	20	577	3
Culex restuans	24	688	2
Culex salinarius	41	330	
Culex spp.	60	704	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	42	166	
Ochlerotatus sollicitans	27	367	
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		182	3438	9
	Aedes albopictus	1	1	
	Aedes vexans	2	11	
	Anopheles punctipennis	3	53	
	Culex spp.	121	2822	9
	Ochlerotatus japonicus	47	465	
	Ochlerotatus triseriatus	7	28	
	Psorophora ferox	1	58	
Salem		416	6866	4
	Aedes albopictus	2	2	
	Aedes vexans	24	90	
	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.	81	815	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		419	5293	1
	Aedes cinereus	6	19	
	Aedes vexans	32	695	
	Anopheles barberi	1	1	
	Anopheles punctipennis	26	228	
	Anopheles quadrimaculatus	11	50	
	Anopheles walkeri	9	157	
	Coquillettidia perturbans	20	422	
	Culex pipiens	11	55	
	Culex restuans	21	475	
	Culex salinarius	15	92	
	Culex spp.	93	1782	1
	Culex territans	4	9	
	Culiseta melanura	9	20	
	Culiseta morsitans	1	1	
	Ochlerotatus canadensis	13	98	
	Ochlerotatus japonicus	80	588	
	Ochlerotatus stimulans	5	29	
	Ochlerotatus triseriatus	26	113	
	Ochlerotatus trivittatus	20	418	
	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		278	5151	0
	Aedes vexans	19	133	
	Anopheles barberi	1	2	
	Anopheles punctipennis	12	18	
	Anopheles quadrimaculatus	2	8	
	Coquillettidia perturbans	2	2	
	Culex restuans	1	3	

Culex spp.	125	4176	
Ochlerotatus canadensis	1	75	
Ochlerotatus cantator	2	55	
Ochlerotatus excrucians	1	1	
Ochlerotatus japonicus	65	352	
Ochlerotatus punctor	1	4	
Ochlerotatus triseriatus	25	91	
Ochlerotatus trivittatus	18	226	
Psorophora ferox	3	5	
Grand Total	6552	129164	264