

VECTOR SURVEILLANCE SUMMARY SHEET

WEEK:13

Culiseta melanura Monitor August 23 - 29, 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.)	5.8	1.9	1,340	59	3	Waterford (Camden Co.)	4.3	1.2	1,036	49	0
Corbin City (Atlantic Co.)	1.8	1.5	583	49	0	Centerton (Salem Co.)	5.5	2.8	1,987	70	4
Dennisville (Cape May Co.)	12.3	2.4	1,453	62	0	Turkey Swamp (Monmouth Co.)	0.8	1.2	447	47	0

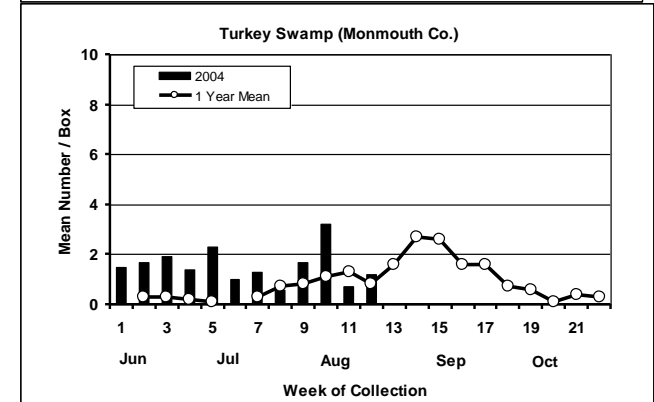
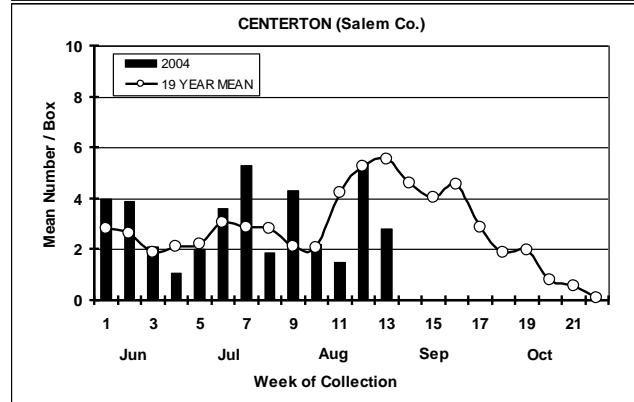
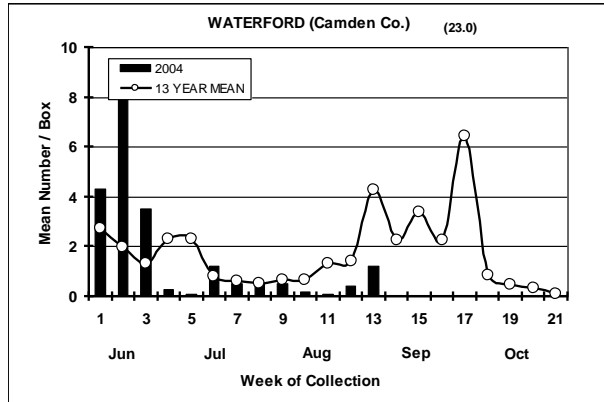
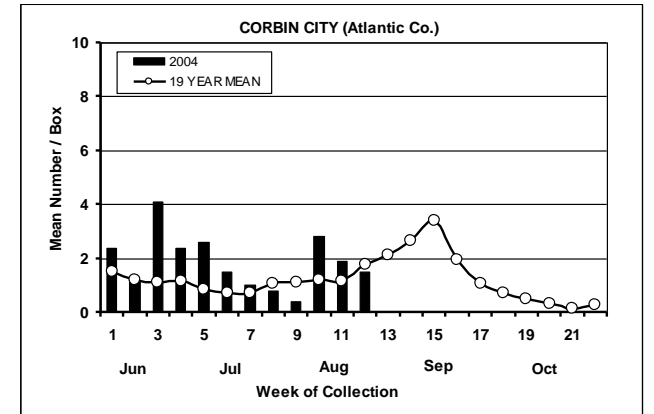
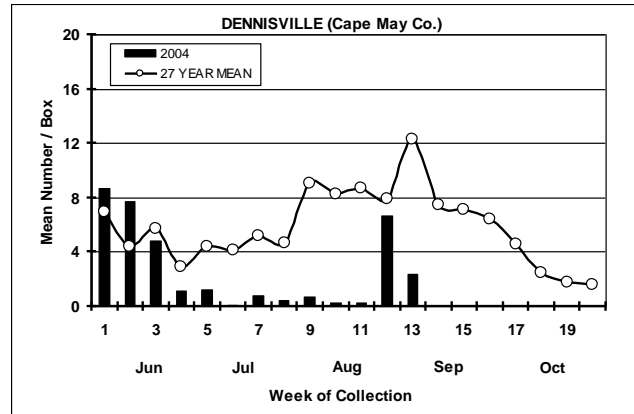
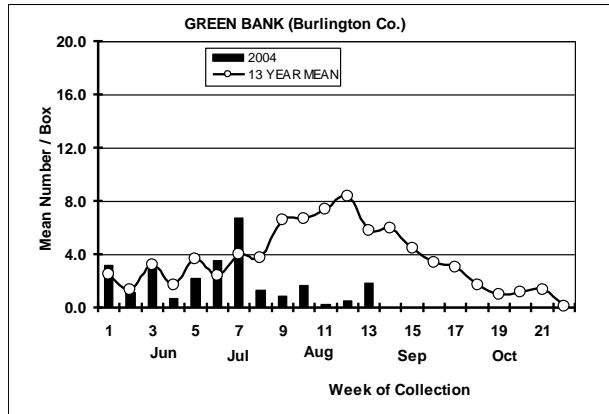
Collections submitted to PHEL for West Nile Virus testing

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	222	199	138	1,204	475	217	129	43	163	79	393	83	695	4,040
Total Specimens	5,914	3,641	3,692	41,270	8,447	3,014	1,569	654	790	1,645	2,514	472	9,384	83,006
No. Positive Pools	22	4	1	86	4	0	0	0	0	0	0	0	0	117

Remarks: *Culiseta melanura* populations have entered a state of flux at most of the study sites currently being monitored for EEE in NJ. Long term means show that populations of this important epornitic vector usually peak toward the end of August. *Cs. melanura* was well above average during the 1st half of this season when EEE first became evident. Populations have since dropped but EEE virus is still active, as evidenced by a positive pool of *Cs. melanura* from the site in Gloucester Co. where a positive horse was reported earlier this month.. The number of mosquito pools testing positive for WNV continues to rise with virus activity now documented from 16 NJ counties. Evidence for active participation in the virus cycle, however, is still limited largely to bird feeding species. The absence of WNV from container breeding and floodwater aedines is striking. Last year's surveillance effort documented WNV in 14 different mosquito species by Week 13 of the 2003 surveillance season. See table on "Mosquito Species submitted for WNV Testing" for species that had tested positive at this point in the season last year.

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Culiseta melanura Population Graphs



Mosquito Species Submitted for West Nile Virus Testing through August 27, 2004

Species	Pools	Mosquitoes	Positives
Aedes albopictus	83	472	*
Aedes cinereus	9	93	
Aedes vexans	217	3014	*
Anopheles barberi	5	6	
Anopheles bradleyi	18	82	
Anopheles crucians	1	3	
Anopheles punctipennis	132	845	
Anopheles quadrimaculatus	116	2848	
Anopheles walkeri	8	167	
Coquillettidia perturbans	96	1297	*
Culex erraticus	15	318	
Culex pipiens	222	5914	22*
Culex restuans	199	3641	4*
Culex salinarius	138	3692	1*
Culex spp.	1204	41270	86*
Culex territans	32	92	
Culiseta melanura	475	8447	4*
Culiseta morsitans	1	1	
Ochlerotatus abserratus	2	13	
Ochlerotatus atlanticus	5	11	
Ochlerotatus atropalpus	2	11	
Ochlerotatus canadensis	129	1569	*
Ochlerotatus cantator	46	974	
Ochlerotatus excrucians	3	4	
Ochlerotatus grossbecki	9	22	
Ochlerotatus japonicus	393	2514	*
Ochlerotatus mitchellae	2	3	
Ochlerotatus punctor	1	4	
Ochlerotatus sollicitans	79	1645	
Ochlerotatus sticticus	13	102	
Ochlerotatus stimulans	6	33	
Ochlerotatus taeniorhynchus	13	163	*
Ochlerotatus thibaulti	1	1	
Ochlerotatus triseriatus	163	790	
Ochlerotatus trivittatus	43	654	*
Orthopodomyia signifera	5	9	
Psorophora ciliata	23	253	
Psorophora columbiae	44	592	*
Psorophora discolor	1	1	
Psorophora ferox	65	1260	*
Psorophora howardii	4	15	
Uranotaenia sapphirina	17	161	
Grand Total	4040	83006	117

* Mosquito species that had tested positive for WNV by Week 13 of the surveillance season in 2003.

Submissions by County through August 27, 2004

County	Species	Pools	Mosquitoes	Positives
Atlantic		313	7208	9
	Aedes albopictus	13	95	
	Aedes cinereus	1	35	
	Aedes vexans	22	459	
	Anopheles bradleyi	4	6	
	Anopheles punctipennis	3	6	
	Anopheles quadrimaculatus	4	6	
	Coquillettidia perturbans	10	153	
	Culex erraticus	6	123	
	Culex pipiens	7	191	1
	Culex restuans	12	125	
	Culex salinarius	4	41	
	Culex spp.	73	2868	8
	Culex territans	3	10	
	Culiseta melanura	64	1076	
	Ochlerotatus canadensis	15	325	
	Ochlerotatus cantator	20	788	
	Ochlerotatus japonicus	11	73	
	Ochlerotatus sollicitans	19	607	
	Ochlerotatus taeniorhynchus	7	60	
	Ochlerotatus triseriatus	12	123	
	Ochlerotatus trivittatus	1	1	
	Orthopodomyia signifera	1	4	
	Psorophora ferox	1	33	
Bergen		187	9750	28
	Aedes albopictus	3	49	
	Aedes cinereus	1	11	
	Aedes vexans	10	358	
	Culex pipiens	22	1171	7
	Culex restuans	4	37	
	Culex salinarius	23	1550	1
	Culex spp.	105	6076	20
	Culiseta melanura	1	1	
	Ochlerotatus canadensis	1	3	
	Ochlerotatus cantator	1	1	
	Ochlerotatus japonicus	2	66	
	Ochlerotatus sollicitans	9	392	
	Ochlerotatus triseriatus	5	35	
Burlington		211	3132	9
	Aedes albopictus	12	57	
	Aedes cinereus	1	3	

Aedes vexans	18	183	
Anopheles bradleyi	1	5	
Anopheles crucians	1	3	
Anopheles punctipennis	6	29	
Anopheles quadrimaculatus	6	32	
Coquillettidia perturbans	7	49	
Culex erraticus	1	2	
Culex pipiens	2	21	
Culex restuans	1	11	
Culex salinarius	2	2	
Culex spp.	29	907	5
Culex territans	2	8	
Culiseta melanura	68	1536	4
Ochlerotatus abserratus	1	9	
Ochlerotatus atlanticus	1	2	
Ochlerotatus atropalpus	1	3	
Ochlerotatus canadensis	4	17	
Ochlerotatus cantator	1	2	
Ochlerotatus grossbecki	1	6	
Ochlerotatus japonicus	15	49	
Ochlerotatus mitchellae	2	3	
Ochlerotatus sollicitans	3	16	
Ochlerotatus sticticus	2	13	
Ochlerotatus stimulans	1	4	
Ochlerotatus taeniorhynchus	1	7	
Ochlerotatus triseriatus	8	36	
Ochlerotatus trivittatus	2	2	
Orthopodomyia signifera	1	2	
Psorophora ciliata	2	18	
Psorophora columbiae	3	60	
Psorophora ferox	2	10	
Psorophora howardii	1	7	
Uranotaenia sapphirina	2	18	
Camden	122	1410	0
Aedes albopictus	7	40	
Aedes cinereus	1	1	
Aedes vexans	4	10	
Anopheles bradleyi	2	7	
Anopheles punctipennis	10	38	
Anopheles quadrimaculatus	6	12	
Coquillettidia perturbans	3	10	
Culex pipiens	1	2	
Culex restuans	2	6	
Culex spp.	5	83	
Culex territans	2	2	
Culiseta melanura	57	1064	

Ochlerotatus atlanticus	1	1	
Ochlerotatus canadensis	6	13	
Ochlerotatus japonicus	4	14	
Ochlerotatus triseriatus	2	4	
Ochlerotatus trivittatus	1	1	
Psorophora ferox	7	101	
Uranotaenia sapphirina	1	1	
Cape May	311	6031	1
Aedes albopictus	5	13	
Aedes vexans	1	6	
Anopheles bradleyi	5	54	
Anopheles punctipennis	4	28	
Anopheles quadrimaculatus	44	2452	
Coquillettidia perturbans	6	120	
Culex erraticus	4	187	
Culex pipiens	59	727	
Culex restuans	48	300	1
Culex salinarius	19	214	
Culex territans	7	32	
Culiseta melanura	85	1688	
Ochlerotatus cantator	4	17	
Ochlerotatus japonicus	7	19	
Ochlerotatus sollicitans	7	74	
Ochlerotatus taeniorhynchus	4	95	
Ochlerotatus triseriatus	2	5	
Cumberland	239	1901	0
Aedes albopictus	1	1	
Aedes vexans	46	378	
Anopheles bradleyi	1	5	
Anopheles punctipennis	7	12	
Anopheles quadrimaculatus	2	2	
Coquillettidia perturbans	3	3	
Culex erraticus	1	1	
Culex pipiens	16	333	
Culex restuans	13	113	
Culex salinarius	21	633	
Culex spp.	14	40	
Culiseta melanura	12	19	
Ochlerotatus canadensis	47	179	
Ochlerotatus cantator	10	14	
Ochlerotatus grossbecki	3	4	
Ochlerotatus japonicus	16	48	
Ochlerotatus sollicitans	5	10	
Ochlerotatus triseriatus	6	8	
Ochlerotatus trivittatus	2	2	

	Psorophora ciliata	1	4	
	Psorophora columbiae	12	92	
Essex		134	1520	0
	Aedes albopictus	4	8	
	Aedes vexans	11	57	
	Anopheles punctipennis	1	1	
	Anopheles quadrimaculatus	1	1	
	Coquillettidia perturbans	9	67	
	Culex pipiens	1	4	
	Culex spp.	53	685	
	Ochlerotatus abserratus	1	4	
	Ochlerotatus canadensis	1	4	
	Ochlerotatus japonicus	14	71	
	Ochlerotatus sticticus	6	27	
	Ochlerotatus triseriatus	7	20	
	Ochlerotatus trivittatus	1	12	
	Psorophora ferox	24	559	
Gloucester		222	4970	22
	Aedes albopictus	9	33	
	Aedes vexans	10	93	
	Anopheles bradleyi	1	1	
	Anopheles punctipennis	7	23	
	Anopheles quadrimaculatus	3	5	
	Coquillettidia perturbans	1	1	
	Culex pipiens	13	537	3
	Culex restuans	8	126	1
	Culex salinarius	7	87	
	Culex spp.	112	3788	18
	Culex territans	1	1	
	Culiseta melanura	6	95	
	Ochlerotatus canadensis	1	1	
	Ochlerotatus japonicus	25	118	
	Ochlerotatus sollicitans	1	1	
	Ochlerotatus triseriatus	7	22	
	Psorophora columbiae	3	15	
	Psorophora ferox	7	23	
Hudson		106	3455	15
	Culex spp.	106	3455	15
Hunterdon		140	6011	4
	Aedes vexans	1	37	
	Anopheles punctipennis	2	19	
	Anopheles quadrimaculatus	1	16	
	Culex spp.	123	5750	4

	Ochlerotatus japonicus	6	35	
	Ochlerotatus trivittatus	2	100	
	Psorophora ciliata	3	31	
	Psorophora columbiae	1	8	
	Psorophora ferox	1	15	
Mercer		197	4704	10
	Aedes albopictus	5	9	
	Aedes cinereus	2	22	
	Aedes vexans	11	321	
	Anopheles punctipennis	8	110	
	Anopheles quadrimaculatus	3	13	
	Coquillettidia perturbans	5	110	
	Culex pipiens	41	1272	9
	Culex restuans	32	715	
	Culex salinarius	6	48	
	Culex spp.	18	806	1
	Culex territans	1	2	
	Culiseta melanura	3	7	
	Ochlerotatus atropalpus	1	8	
	Ochlerotatus canadensis	10	458	
	Ochlerotatus excrucians	2	3	
	Ochlerotatus japonicus	23	114	
	Ochlerotatus sticticus	1	40	
	Ochlerotatus triseriatus	8	17	
	Ochlerotatus trivittatus	4	92	
	Psorophora ciliata	1	8	
	Psorophora columbiae	1	23	
	Psorophora ferox	6	382	
	Psorophora howardii	2	7	
	Uranotaenia sapphirina	3	117	
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	381	4720	2
Aedes albopictus	3	3	
Aedes vexans	23	338	
Anopheles barberi	3	3	
Anopheles punctipennis	17	121	
Anopheles quadrimaculatus	14	46	
Coquillettidia perturbans	7	16	
Culex erraticus	2	4	
Culex pipiens	26	958	2
Culex restuans	19	444	
Culex salinarius	20	888	
Culex spp.	47	266	
Culex territans	4	5	
Culiseta melanura	56	423	
Ochlerotatus atlanticus	3	8	
Ochlerotatus canadensis	16	117	
Ochlerotatus cantator	3	10	
Ochlerotatus grossbecki	1	2	
Ochlerotatus japonicus	42	293	
Ochlerotatus sollicitans	11	183	
Ochlerotatus sticticus	1	3	
Ochlerotatus taeniorhynchus	1	1	
Ochlerotatus triseriatus	33	288	
Ochlerotatus trivittatus	6	15	
Orthopodomyia signifera	1	1	
Psorophora ciliata	6	54	
Psorophora columbiae	9	195	
Psorophora ferox	7	35	
Morris	152	5360	2
Aedes cinereus	1	10	
Aedes vexans	2	13	
Anopheles punctipennis	3	6	
Anopheles quadrimaculatus	1	1	
Coquillettidia perturbans	3	30	
Culex pipiens	2	6	
Culex restuans	1	1	
Culex spp.	93	4891	2
Ochlerotatus canadensis	1	11	
Ochlerotatus japonicus	33	200	
Ochlerotatus sticticus	1	13	
Ochlerotatus triseriatus	8	27	
Ochlerotatus trivittatus	1	75	
Psorophora ferox	2	76	

Ocean	323	4124	4
Aedes albopictus	16	157	
Aedes vexans	20	476	
Anopheles bradleyi	1	1	
Anopheles punctipennis	13	129	
Anopheles quadrimaculatus	8	28	
Coquillettidia perturbans	15	302	
Culex pipiens	13	261	
Culex restuans	17	470	2
Culex salinarius	26	184	
Culex spp.	39	592	2
Culex territans	2	5	
Culiseta melanura	48	543	
Ochlerotatus canadensis	13	281	
Ochlerotatus cantator	1	50	
Ochlerotatus grossbecki	4	10	
Ochlerotatus japonicus	25	95	
Ochlerotatus sollicitans	20	312	
Ochlerotatus sticticus	1	1	
Ochlerotatus thibaulti	1	1	
Ochlerotatus triseriatus	13	30	
Ochlerotatus trivittatus	3	7	
Orthopodomyia signifera	1	1	
Psorophora ciliata	8	134	
Psorophora columbiae	4	19	
Psorophora ferox	5	21	
Psorophora howardii	1	1	
Uranotaenia sapphirina	5	13	
Passaic	101	2175	3
Anopheles punctipennis	2	4	
Culex spp.	70	1904	3
Ochlerotatus japonicus	27	254	
Ochlerotatus triseriatus	2	13	
Salem	217	3632	1
Aedes albopictus	1	1	
Aedes vexans	10	30	
Anopheles bradleyi	3	3	
Anopheles punctipennis	11	76	
Anopheles quadrimaculatus	13	181	
Anopheles walkeri	3	15	
Coquillettidia perturbans	6	9	
Culex erraticus	1	1	
Culex pipiens	1	1	
Culex restuans	14	592	
Culex spp.	44	391	1

	<i>Culex territans</i>	5	17	
	<i>Culiseta melanura</i>	71	1990	
	<i>Ochlerotatus canadensis</i>	1	1	
	<i>Ochlerotatus cantator</i>	4	37	
	<i>Ochlerotatus japonicus</i>	16	103	
	<i>Ochlerotatus triseriatus</i>	2	2	
	<i>Psorophora ciliata</i>	1	3	
	<i>Psorophora columbiae</i>	9	178	
	<i>Psorophora ferox</i>	1	1	
Somerset		176	3251	3
	<i>Aedes vexans</i>	5	26	
	<i>Anopheles punctipennis</i>	5	10	
	<i>Anopheles quadrimaculatus</i>	1	1	
	<i>Coquillettidia perturbans</i>	2	6	
	<i>Culex pipiens</i>	5	104	
	<i>Culex restuans</i>	10	291	
	<i>Culex salinarius</i>	1	2	
	<i>Culex spp.</i>	81	2347	3
	<i>Culex territans</i>	1	1	
	<i>Culiseta melanura</i>	1	1	
	<i>Ochlerotatus canadensis</i>	5	57	
	<i>Ochlerotatus japonicus</i>	34	299	
	<i>Ochlerotatus sticticus</i>	1	5	
	<i>Ochlerotatus triseriatus</i>	15	65	
	<i>Ochlerotatus trivittatus</i>	7	33	
	<i>Psorophora ciliata</i>	1	1	
	<i>Psorophora ferox</i>	1	2	
Sussex		234	3094	1
	<i>Aedes cinereus</i>	2	11	
	<i>Aedes vexans</i>	12	178	
	<i>Anopheles barberi</i>	1	1	
	<i>Anopheles punctipennis</i>	19	213	
	<i>Anopheles quadrimaculatus</i>	8	45	
	<i>Anopheles walkeri</i>	5	152	
	<i>Coquillettidia perturbans</i>	18	420	
	<i>Culex pipiens</i>	6	26	
	<i>Culex restuans</i>	14	383	
	<i>Culex salinarius</i>	9	43	
	<i>Culex spp.</i>	50	982	1
	<i>Culex territans</i>	4	9	
	<i>Culiseta melanura</i>	3	4	
	<i>Culiseta morsitans</i>	1	1	
	<i>Ochlerotatus canadensis</i>	7	27	
	<i>Ochlerotatus japonicus</i>	45	352	
	<i>Ochlerotatus stimulans</i>	5	29	

	Ochlerotatus triseriatus	14	59	
	Ochlerotatus trivittatus	5	147	
	Uranotaenia sapphirina	6	12	
Union		55	1818	3
	Aedes albopictus	2	4	
	Culex spp.	41	1780	3
	Ochlerotatus japonicus	8	29	
	Ochlerotatus triseriatus	2	3	
	Ochlerotatus trivittatus	1	1	
	Psorophora discolor	1	1	
Warren		162	3937	0
	Aedes vexans	7	16	
	Anopheles barberi	1	2	
	Anopheles punctipennis	10	13	
	Anopheles quadrimaculatus	1	7	
	Coquillettidia perturbans	1	1	
	Culex restuans	1	3	
	Culex spp.	85	3321	
	Ochlerotatus canadensis	1	75	
	Ochlerotatus cantator	2	55	
	Ochlerotatus excrucians	1	1	
	Ochlerotatus japonicus	35	261	
	Ochlerotatus punctor	1	4	
	Ochlerotatus triseriatus	11	24	
	Ochlerotatus trivittatus	4	152	
	Psorophora ferox	1	2	
Grand Total		4040	83006	117