

Mosquito studies - Greenwoods Conservancy, Summer 1998

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On May 7, five sampling sites were established in the woods adjacent to the western margin of Marcy South Power Line right of way between Cranberry Bog Road and State Land Road. Sites were numbered 1-5 from the first named road. Much of the low area between the roads has been impounded by beavers and is defined on the Greenwoods map as "Woods Hole."

Collection was attempted at approximately weekly intervals from June 4 through September 11. A final sampling series was conducted on September 28. Mosquitos were collected by inverting small killing vials over specimens which alighted on an exposed forearm of the author and on adjacent clothed areas. Sampling was done for 20 minutes/site and occasional sampling using CDC midget light traps was conducted.

Table 1 lists numbers of mosquitoes/site/date. Largest number of specimens were collected in the period from May 28 through July 29. Two species were dominant: *Aedes canadensis* (Theobald) and *Aedes punctor* (Kirby). Both species exhibit the univoltine "Nothern *Aedes*" type life history that is dependent upon temporary bodies of water which dry up late in summer. Mosquitoes with this type of development are the typical anthropophilic species encountered in the higher elevations in upstate New York (Means, 1979) and is consistent with previous studies on the upper Site, Rum Hill and Greenwoods (Butts, 1992, 1993, 1994, 1995, 1996).

Of the four additional species collected, only one, *Coquillettidia perturbans* (Walker) is confined to permanent standing water with larvae overwintering while attached to submerged portions of aquatic plants. Only eight specimens of this species were collected and appeared later in the summer (July 23 - September 3). Both *Anopheles punctipennis* (Say) and *Anopheles earlei* Vargas may develop in a variety of aquatic habitats. *Aedes triseratus* (Say) is a tree hole breeder.

References Cited:

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- Butts, W. L. 1994. Mosquito Studies - Greenwoods; Survey of area adjacent to Cranberry Bog. In 27th Ann. Rept., SUNY Oneonta Bio. Fld. Sta., SUNY Oneonta, N.Y. pp. 34-36.
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Table 1. Sequences of site visitation, date of collection, starting time of sequence and number of mosquitoes (noted parenthetically) per site of collection. Light traps were set on evening previous to recorded date of collection.

Sequence	Time	Date	Site (mosquitoes)
1, 5, 4, 3, 2	8:40 a.m.	May 28	1(5); 2(2); 4(2); 5(2)
1, 4, 5*	8:59 a.m.	Jun 4	None
1-5	7:10 a.m.	Jun 15	5(2)
1-4*	6:45 a.m.	Jun 18	1(1); 2(2); 3(2); 4(1)
1-5	7:50 a.m.	Jun 24	3(3); 4(1); 5(3)
1-5	6:45 a.m.	Jul 16	2(3); 3(2); 4(2)
1-5	7:10 a.m.	Jul 23	2(3); 4(2); 5(1)
Light Trap	-	Jul 24	5(2)
1-5	6:20 a.m.	Jul 29	1(1); 3(2); 5(1)
Light Trap	-	Jul 30	3(1)
1-5	6:40 a.m.	Aug 6	2(1); 5(1)
Light Trap	-	Aug 6	3(2)
1-4*	6:55 p.m.	Aug 12	2(3)
Light Trap	-	Aug 13	1(1)
1-5	6:55 a.m.	Aug 26	1(2); 5(1)
5-1	5:10 p.m.	Sep 3	1(1); 2(2)
5-1	7:25 a.m.	Sep 11	None
1-5	7:15 a.m.	Sep 28	None

Table 2. Mosquitoes collected with date and site of collection. Number of specimens collected noted parenthetically.

Species	Date	Site
<i>Aedes canadensis</i> (Theobald)	May 28	1(4); 2(2); 4(2); 5(2)
	Jun 15	5(2)
	Jun 18	1(1); 2(2); 3(1)
	Jun 24	3(2); 4(1)
	Jul 16	2(2); 3(2); 4(1)
	Jul 23	2(1); 4(2); 5(1)
	Jul 24	5(1 Light trap)
	Aug 6	2(1); 5(1)
	Aug 12	2(1)
	Aug 26	1(1)
	<i>Aedes punctor</i> (Kirby)	May 28
Jun 18		4(1)
Jun 24		5(3)
<i>Aedes triseriatus</i> (Say)	Jul 16	2(1); 4(1)
	Aug 26	1(1)
<i>Coquillettidia perturbans</i> (Walker)	Jul 23	2(1)
	Jul 30	3 (1 Light trap)
	Aug 6	3 (2 Light trap)
	Aug 12	2(2)
	Aug 26	5(1)
	Sep 3	2(1)
<i>Anopheles punctipennis</i> (Say)	Jun 18	3(1)
	Sep 3	1(1); 2(1)
<i>Anopheles earlei</i> Vargas	Aug 13	1(1 Light trap)