

Guy Street, Caanan, Tobago, W. I. Ten, 4th instar larvae and 2 pupae from a water barrel on August 19, 1980. *Culex quinquefasciatus* was also present.

Speyside, Tobago, W.I. One, 3rd instar larva from a water barrel on August 19, 1980. In addition, eight 3rd instar larvae were collected from 3 abandoned used tires on November 4, 1980.

Battista Hill, Plymouth, Tobago, W.I. One 3rd instar and one 4th instar larva from a pail of water on July, 23 and August 18, 1980.

Adventure Estate, Clapham Road, Bon Accord, Tobago, W.I. Three 4th instar larvae from a steel tank on August 20, 1980, *Culex quinquefasciatus* were found breeding in the same site.

References Cited

Arnell, J. H. 1973. Mosquito studies (Diptera, Culicidae XXXII. A revision of the genus *Haemagogus*. Contrib. Am. Entomol. Inst. (Ann Arbor) 10(2):1-74.

de Rodaniche, E., P. Galindo and C. M.

Johnson. 1957. Isolation of yellow fever virus from *Haemagogus lucifer*, *H. equinus*, *H. spegazzinii falco*, *Sabethes chloropterus* and *Anopheles neivai* captures in Panama in the fall of 1956. Am. J. Trop. Med. Hyg. 6:681-685.

Waddell, M. B. 1949. Comparative efficacy of certain South American *Aedes* and *Haemagogus* mosquitoes as laboratory vectors of yellow fever. Am. J. Trop. Med. 29:567-575.

Waddell, M. B. and R. M. Taylor. 1945. Studies on the cyclic passage of yellow fever virus in South America mammals and mosquitoes. Marmosets (*Callithrix aurita*) and the Cebus monkeys (*Cebu versatus*) in combination with *Aedes aegypti* and *Haemagogus equinus*. Am. J. Trop. Med. 25:225-230.

Waddell, M. B. and R. M. Taylor. 1947. Studies on the cyclic passage of yellow fever virus in South American mammals and mosquitoes, III. Further observation in *Haemagogus equinus* as a vector of the virus. Am. J. Trop. Med. 27:471-476.

A SENIOR CITIZENS SURVEILLANCE NETWORK

MARTIN HYATT

Charleston County Mosquito Abatement, 4370
Azalea Avenue, Charleston, S. C. 29405

Obtaining information concerning adult mosquito densities and rainfall in the rural areas of Charleston County, South Carolina was a costly problem that had persisted for years. The combined rural areas occupy approximately 600 square miles with a population of approximately 18,000. Travel necessary to gather surveillance data, including landing rate counts, monitoring rain gauges, operation and collection of 2 New Jersey light traps twice weekly, and investigation of complaints, required many manhours. Three college students were employed to inspect these areas. Full time employees were utilized before students were available in the spring and after these students returned to school in August. The total cost for these services was \$17,000 during 1979.

A Senior Citizens Surveillance Network had

proved useful in the metropolitan areas of Saginaw and Bay counties, Michigan (Speer 1979). A business student intern from the College of Charleston obtained information on the Michigan program. A cost analysis performed by the intern indicated that it was feasible to operate a Senior Citizens Surveillance Network in the rural areas of the county. A Senior Citizens Surveillance Network was initiated on May 1, 1980 and continued through October 31, 1980. Thirty-three senior citizens were selected and signed contracts with the county for surveillance services. Conscientious citizens were obtained through Senior Citizens Clubs, word of mouth, house to house surveys, and prior knowledge of citizens in surveillance areas.

The county is divided geographically into treatment-inspection areas. No more than 2

citizens were selected from any inspection area. Two citizens were used specifically to collect from light traps operated twice weekly. Trap collections were brought to Abatement Headquarters by Public Works rural area foremen who traveled to Charleston each Friday morning to receive or deliver payrolls. Thirty-one senior citizens made 3 one-minute landing rate counts in their yards twice daily as close to sunrise and sunset as possible. Rain gauges were also monitored daily. Mosquito counts were taken Sunday evening through Friday morning of each week. Using an unlisted telephone number, each citizen was assigned an identification code number and given a designated time for reporting between 8:30 a.m. and 10:30 a.m. Participants were asked to report mosquito counts and rain gauge readings without any delays or unnecessary conversation. Each call was easily processed in less than one minute.

Each senior citizen was paid \$30.00 monthly. This cost, plus the expense of long distance calls, telephone installation, and other inci-

dentals was \$6,952 or a savings of approximately \$10,000 for the year. Having mosquito landing rate counts taken at the time of peak mosquito activity and receiving information at headquarters earlier in the day provided additional benefits over the previous method. Areas, which were previously inspected a maximum of once or twice weekly, were inspected 6 days a week with morning and evening counts taken on 4 days a week. The data provided by this network increased control efficiency and improved the public's understanding of mosquito abatement operations.

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References Cited

- Speer, L. 1979. Taking the sting out of the high cost of mosquito control. *Industrial Vegetation Turf and Pest Management II* (1):4-5.

INCREASE IN MEMBERSHIP DUES AND SUBSCRIPTION FEES

At the Board of Directors meeting in San Antonio it was voted to increase membership dues, subscription fees, and page charges, beginning January 1982. Inflation has made these increases necessary. The new rates are:

Membership dues	\$25.00/year
Student membership	\$12.50/year
Subscriptions to libraries and non-members	\$35.00/year
Page charges	\$40.00/page