NEW MOSQUITO RECORDS FOR NEW JERSEY 1

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Four species of mosquitoes have recently been found by the authors in New Jersey that have not previously been reported from the state. These are: Aedes implicatus Vock., Aedes dorsalis (Meigen), Psorophora varipes (Coq.) and Culiseta minnesotae Barr.

Dr. Alan Stone of the U. S. National Museum has further confirmed the identification of the above four species.

With the addition of these four species the New Jersey state list of mosquitoes now totals 40.

Aedes implicatus Vock. During 1957 the authors found three mosquito larvae in the New Jersey Agricultural Experiment Station Museum's larval collection labeled Aedes impiger. Since this species has not previously been recorded from New Jersey, the specimens were examined.

They did not fit the description of Aedes impiger or any other New Jersey species familiar to us at that time

On closer examination the specimens were determined to be *Aedes implicatus* Vockeroth. *Aedes impiger* (of authors, not Walker) which is a far northern and western species, is also a synonym for *Aedes implicatus*.

These larvae were collected by E. J. Hansens on April 8, 1946 from Netcong, New Jersey, and the original determination (A. impiger) was by Matheson.

Acdes dorsalis (Meigen). During the course of identifying routine mosquito trap collections from Passaic County, New Jersey, one female specimen of A. dorsalis was encountered. The specimen was collected from Clifton, New Jersey on July 26, 1957.

Since A. dorsalis is reported from states surrounding New Jersey (New York, Delaware, Pennsylvania, Connecticut and Massachusetts) it is conceivable that this

species could breed to a limited extent within the state or that the specimen entered New Jersey from an outside breeding

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source. Attempts to locate local breeding have not been successful, and trap collections during the 1958 season have not yielded additional adults of this species.

Psorophora varipes (Coq.). One female of this species was collected on July 8, 1957, from West Milford, New Jersey. It was hand-collected while biting in a hemlock-rhododendron forest. To date no larvae have been collected in New Jersey and no light trap collections of this species have been reported.

Culiseta minnesotae Barr. During the summer of 1956 regular light trap collections of mosquitoes were made at Upper Greenwood Lake, New Jersey, in conjunction with studies of Culiseta melanura. An unusual number of what was first recognized as C. morsitans were collected but upon further investigation it was found that these specimens only superficially resembled C. morsitans. They were Culiseta minnesotae a new species

recently described by A. R. Barr in August 1957.

A total of 318 female specimens were collected with 293 of these being taken during the last two weeks of July. Only one larva, from several hundred larval specimens collected from various bogs in the state, proved to be *Culiseta minnesotae* as described by Price, 1958. This specimen was collected by H. C. Chapman from Tuckahoe (South Jersey) on June 2, 1955.

Literature Cited

t. Barr, A. Ralph. 1957. A new species of Culiseta (Diptera: Culicidae) from North America. Proc. Ent. Soc. Wash. 59:163–167.

2. CARPENTER, STANLEY J. and LACASSE, WALTER J. 1955. Mosquitoes of North America (North of Mexico). pp. 175–176, 193–197.

(Notiti of Mexico). pp. 175-170. 193-197.

3. Price, R. D. 1958. A description of the larva and pupa of *Culiseta* (Culicella) minnesotae Barr (Diptera, Culicidae). Jour. Kans. Ent. Soc. 31(1):47-53.

4. STONE, ALAN. Personal communications (1957-58).

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