humans (epidemic cycle) include a high mosquito population, a high infection rate in wild birds, and a non-immune horse or high human population at a given time. It was pointed out that *Aedes vexans* might have been involved as the vector species in the 1938 Massachusetts epidemic and that *A. sollicitans* might have been the epidemic vector in the 1959 New Jersey outbreak.

**THE IMPORTANCE OF BIRDS AND BIRD MOVEMENT**

**DONALD D. STAMM**

Studies to determine whether or not birds are involved in dissemination of EE virus from fresh water swamp habitats are being conducted. Bird census and blood sampling methods of the study were described. Recapture and reflecting of individual birds has given information which will be evaluated to determine whether or not the amount of virus transmission and the number of birds present correlate directly. Up to 500 blood samples have been taken during a 12-day period, and viremias in as much as 5 percent of the birds have been encountered. Dr. Stamm believes that encephalitis transmission is closely associated with high bird densities—such as occur in swamps. Thus the danger of transmission of EE to man increases when high bird population densities become established, or build up periodically, near human habitats.

**CONNECTICUT STUDIES ON EASTERN ENCEPHALITIS**

**ROBERT C. WALLIS**

Since no human cases of EE have been reported from Connecticut, the studies there initially involved transmission to pheasants being reared on game farms. It was concluded that initial transmission to pheasants is mosquito-borne, but that most of the pheasants are infected by feather picking and cannibalism. Recently a search for the vector transmitting EE to horses in the state resulted in the isolation of EE from *Aedes vexans*, and it is believed the species is involved there in spreading the disease from birds to horses.

Laboratory evidence indicates that non-blood-sucking insect larvae may be involved in spreading the virus among the wild bird population.

**1959 NEW JERSEY OUTBREAK**

**DANIEL M. JOBBS**

Human cases of EE in New Jersey occurred for the first time during 1959. There were 33 confirmed cases; of these, 21 died; 2 individuals recovered from remarkably mild clinical cases. The cases occurred between August 16 and October 15. Most of the cases occurred in the southern part of the state within a 60-mile area along the east coast of the state—especially in communities situated adjacent to woodlands or swamps. Horse cases (56) and pheasant outbreaks (16) also occurred, and even though there are many more pheasant farms in the north than in the south, most of the pheasant infections occurred in south New Jersey—as did the horse cases. Virus isolations were made from *Culex restuans*, and from two other mosquito pools which were composed of several mosquito species, or of unidentified specimens. EE virus was also isolated from two species of wild birds: House Sparrow, and Myrtle warbler.