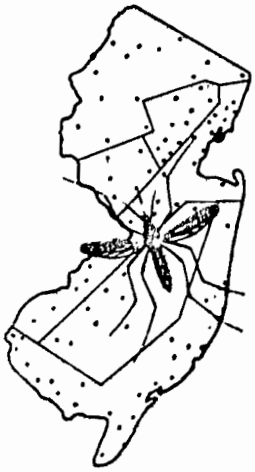

Mosquito Surveillance Report*

Prepared by Dr. Roy K. Sofield

Vol. 11 *No.* 4 *Period* July 8-21, 1983

Introduction

The middle of July continued to be dry throughout New Jersey (Table 1). The average temperature in most areas over the two weeks has been close to normal (Table 2). The lack of rainfall this summer is reflected in the low populations of flood water mosquitoes.

Salt Marsh Mosquitoes

Along the Delaware Bay, populations of Aedes sollicitans remain quite low with few areas producing this species in numbers. In 1983 the Delaware Bay region has had the lowest collections of Ae. sollicitans since the inception of the New Jersey State Surveillance Program in 1973. Along the Atlantic Coast, the collections of Ae. sollicitans are above average for the second week of this report, but they are about average so far for the 1983 season. There are a few isolated areas with high populations of this species along the Atlantic Coast.

Floodwater and Culex Mosquitoes

Floodwater mosquitoes such as Aedes vexans are below average in nearly all regions of the state. The lack of rainfall has reduced the available habitat for these species. Populations will remain low until rainfall increases.

The Culex mosquitoes are also low in the North Urban (region D) and Delaware Bay (region H) areas. The South Urban Region (E) had higher than average collections for the week ending July 21.

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* New Jersey Agricultural Experiment Station, Publication No. R-40506-04-83, supported by State funds and by the New Jersey State Mosquito Control Commission.

Freshwater Swamp Mosquitoes

Populations of Coquillettidia perturbans, have about reached peak levels in most areas of the state. Collections were 0.86 per trap night in region F (Coastal Plain) on the week ending July 14. This species continues to be suspected as one of the vectors of Eastern equine encephalitis to horses. Known breeding sources of this species should be recorded and mapped for each county in New Jersey.

Table 1. Average Weekly Rainfall for the North, Central and South Areas of New Jersey.*

Week Ending	North	Central	South
July 11	0.04	0.61	0.12
July 18	0.06	0.03	0.03

Table 2. Average departure from normal temperature for the North, Central and South areas of New Jersey.*

Week Ending	North	Central	South
July 11	-3	-2	-2
July 18	+4	+4	+5

* These data were gathered from 6-8 weather stations in each area and reported in the New Jersey Weekly Digest.

Program Staff

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Associate Mosquito Program Staff: Bunnie Hajek, Dwight Hudgins, Peg Horan, Vinnie DiGregorio

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Cooperating County Mosquito Control Agencies:

Atlantic	Gloucester	Passaic
Bergen	Hudson	Salem
Burlington	Mercer	Somerset
Cape May	Monmouth	Union
Cumberland	Morris	Warren
Essex	Ocean	

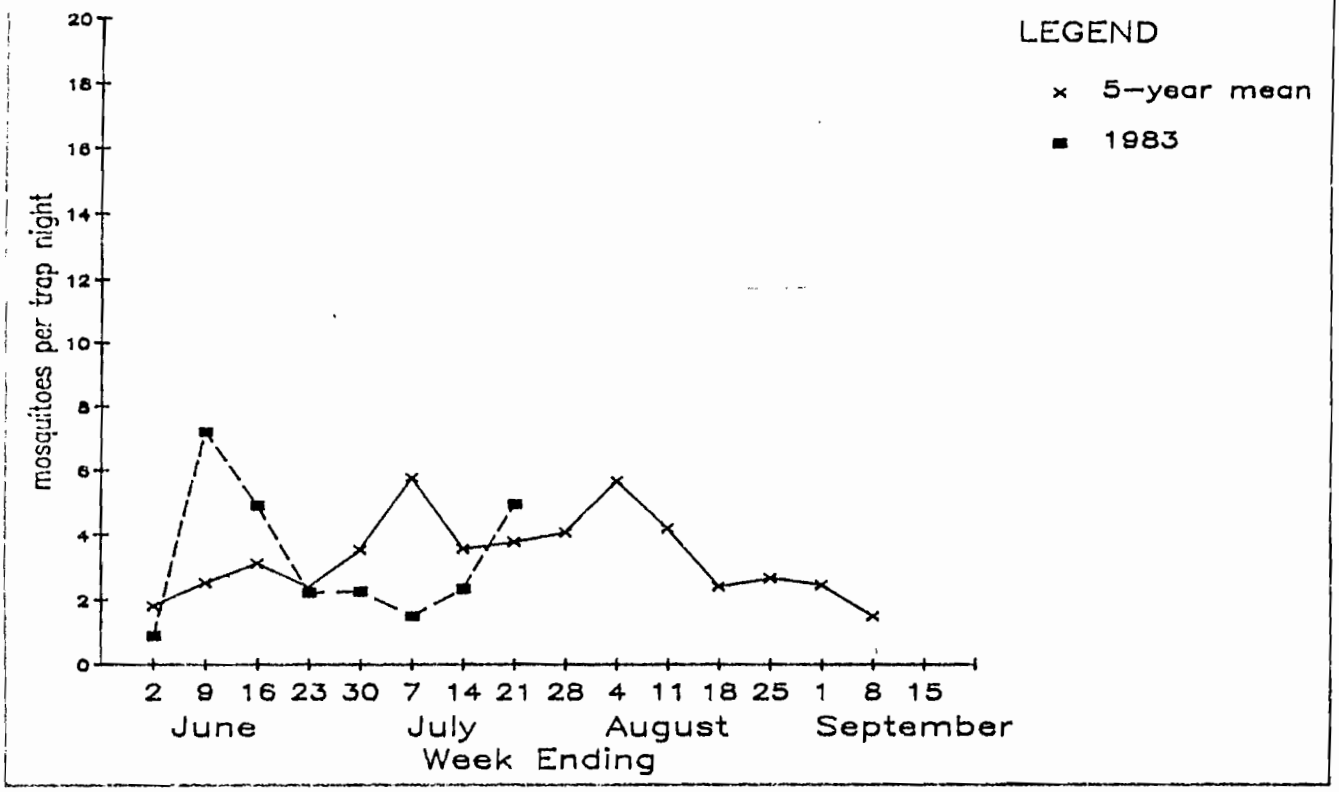
Project Leader: Dr. Wayne J. Crans

New Jersey State Mosquito Control Commissioners:

Aaron Rappaport, Chairman	Michael Mathis
Leonard Spiegel	Grant Walton
Theodore Czech	Robert Hughey
James Gaspari	Allen Kopliny
Ralph Evans	Arthur R. Brown, Jr.

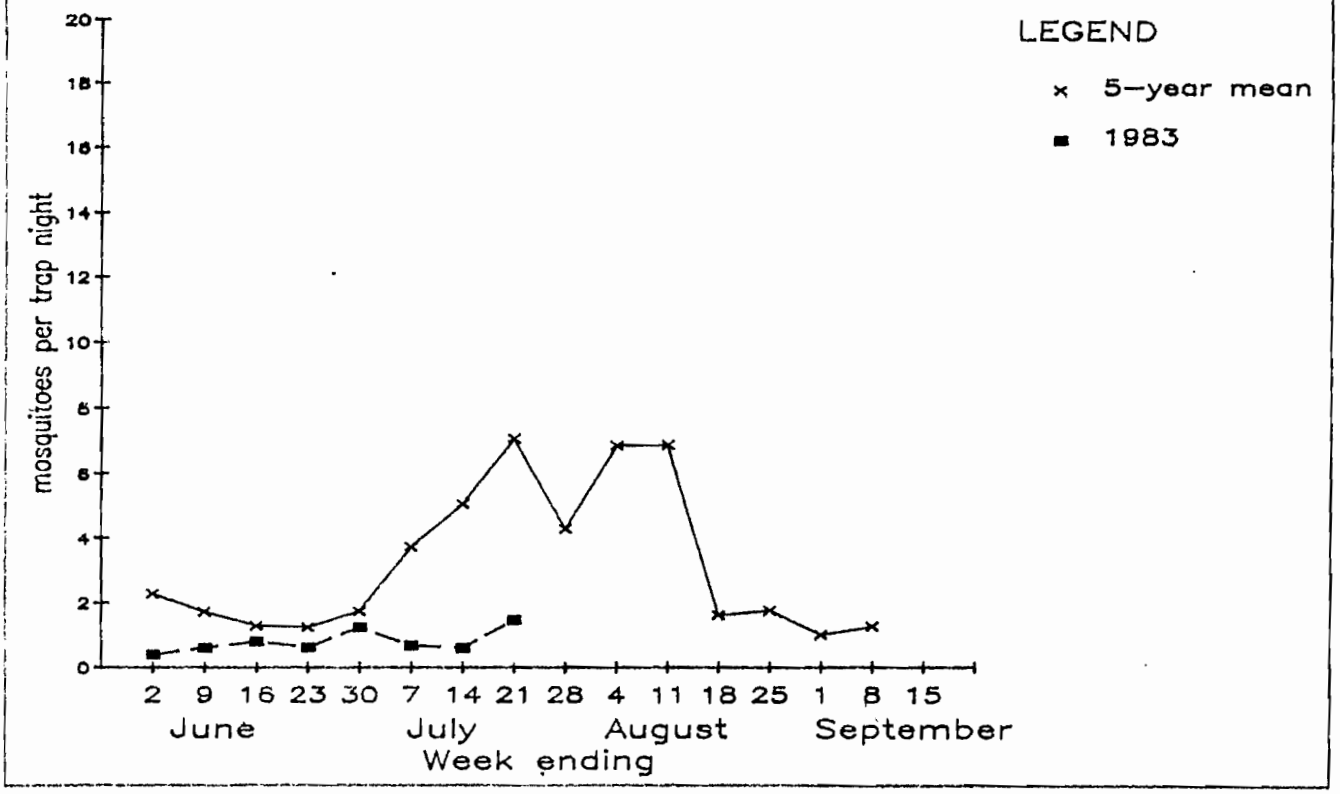
Region G
Atlantic Coast

Aedes sollicitans



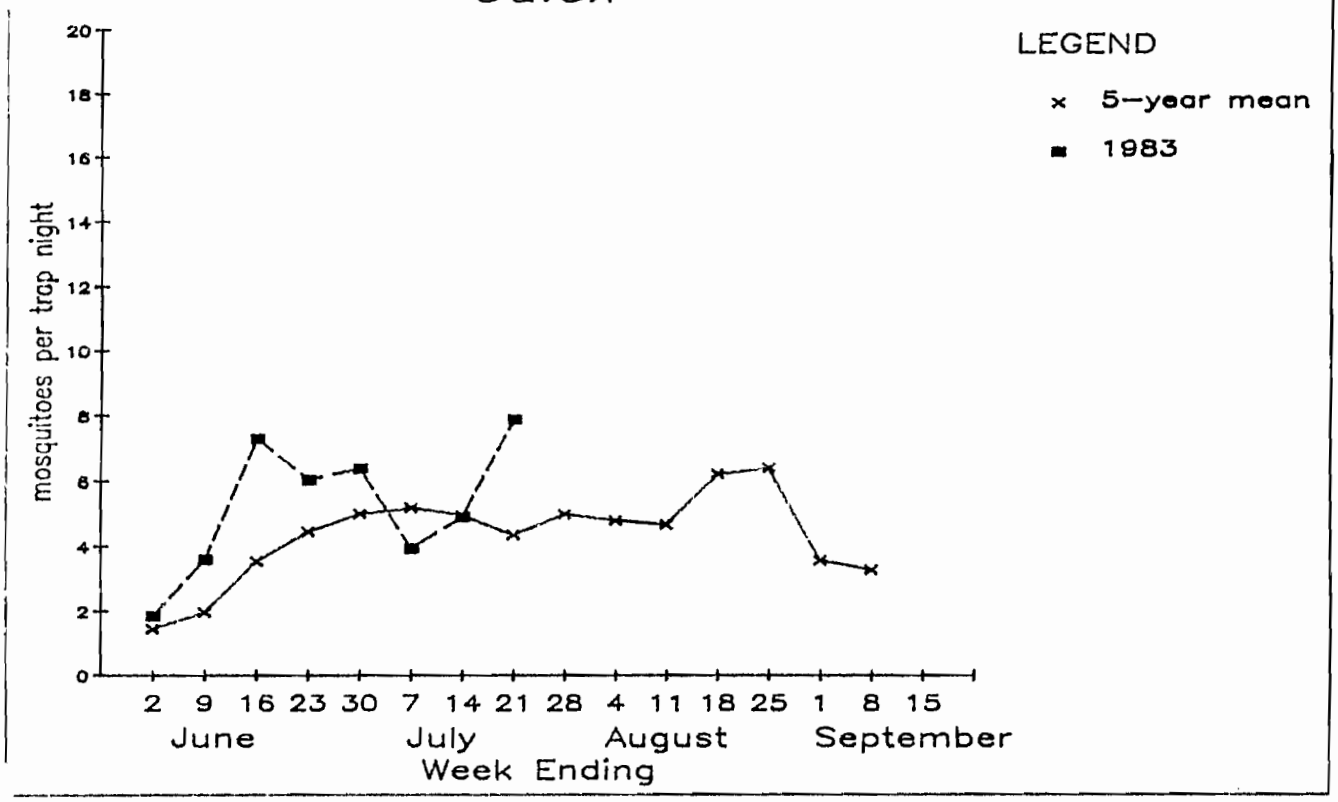
Region H
Delaware Bay

Aedes sollicitans



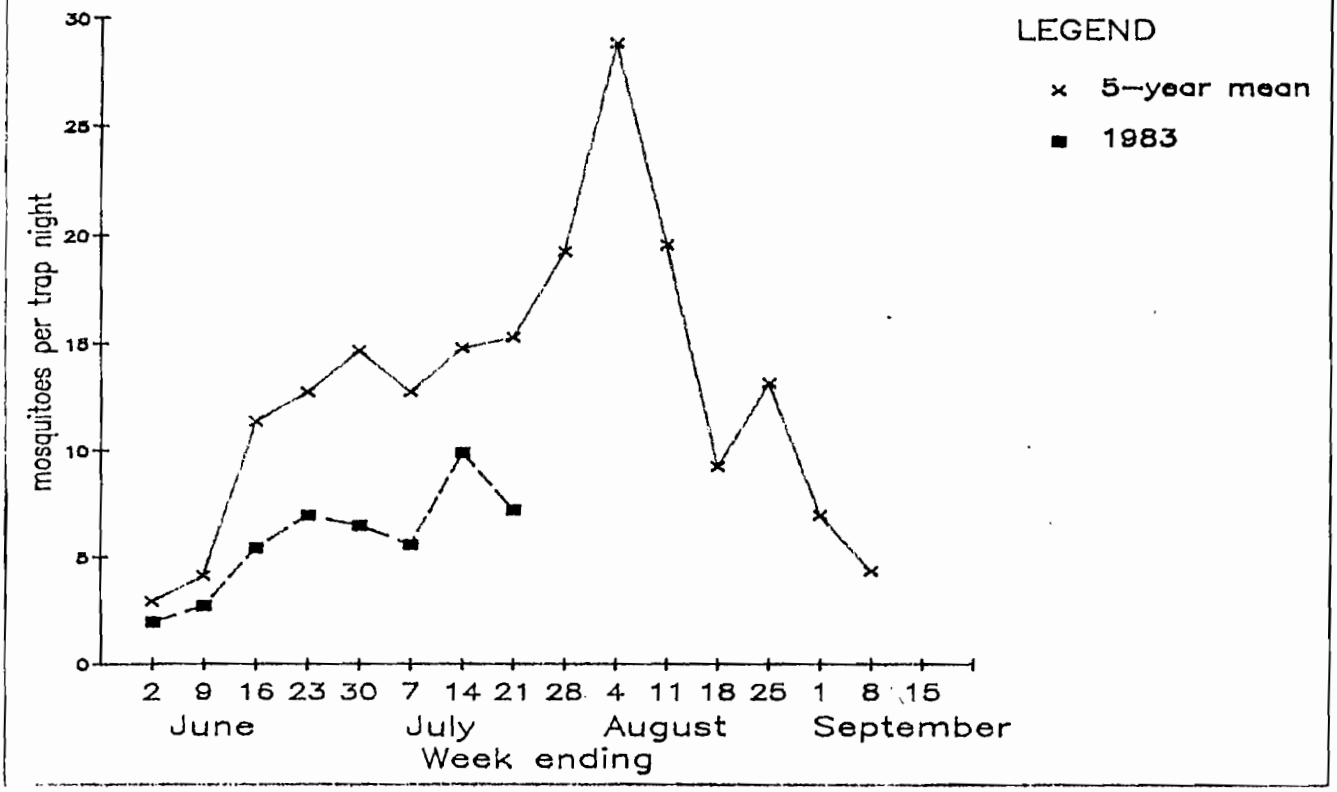
Region E
South Urban

Culex



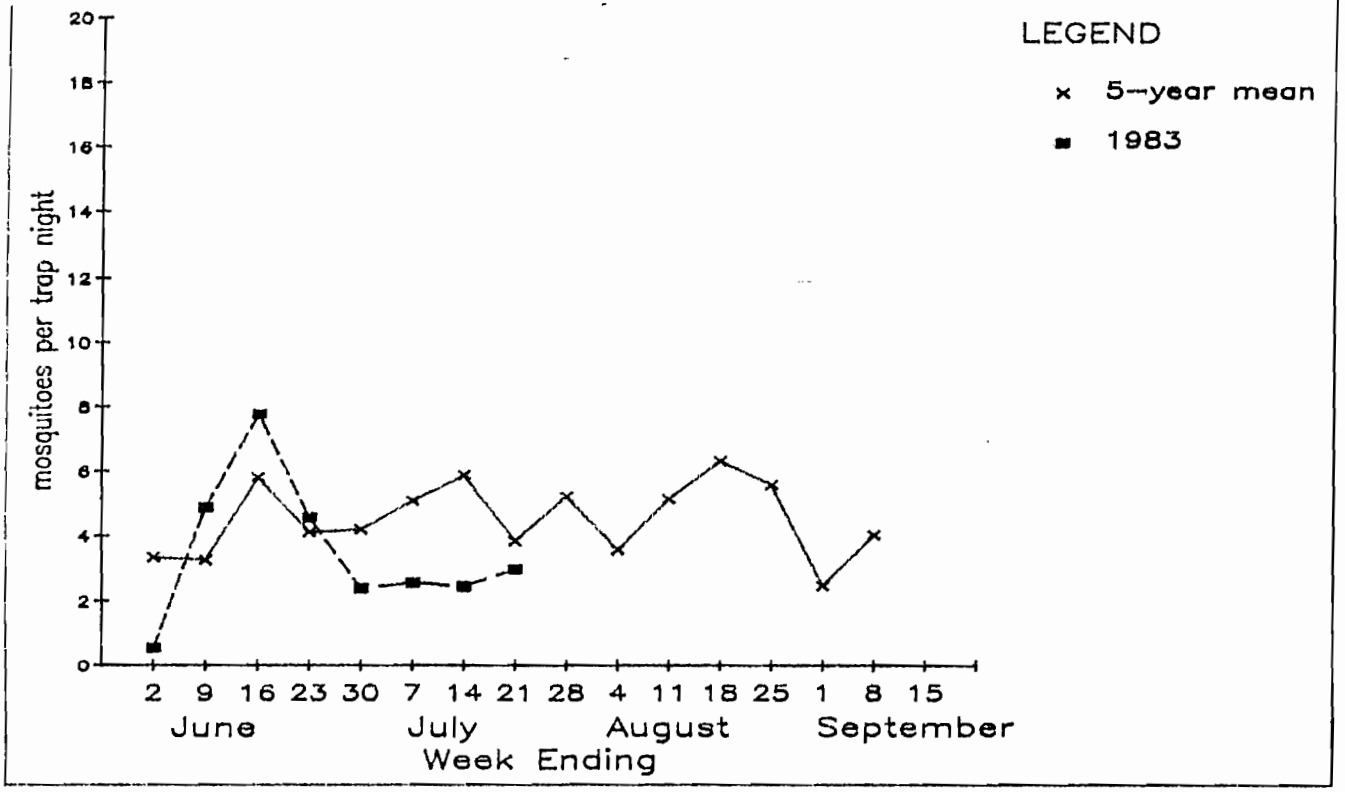
Region H
Delaware Bay

Culex



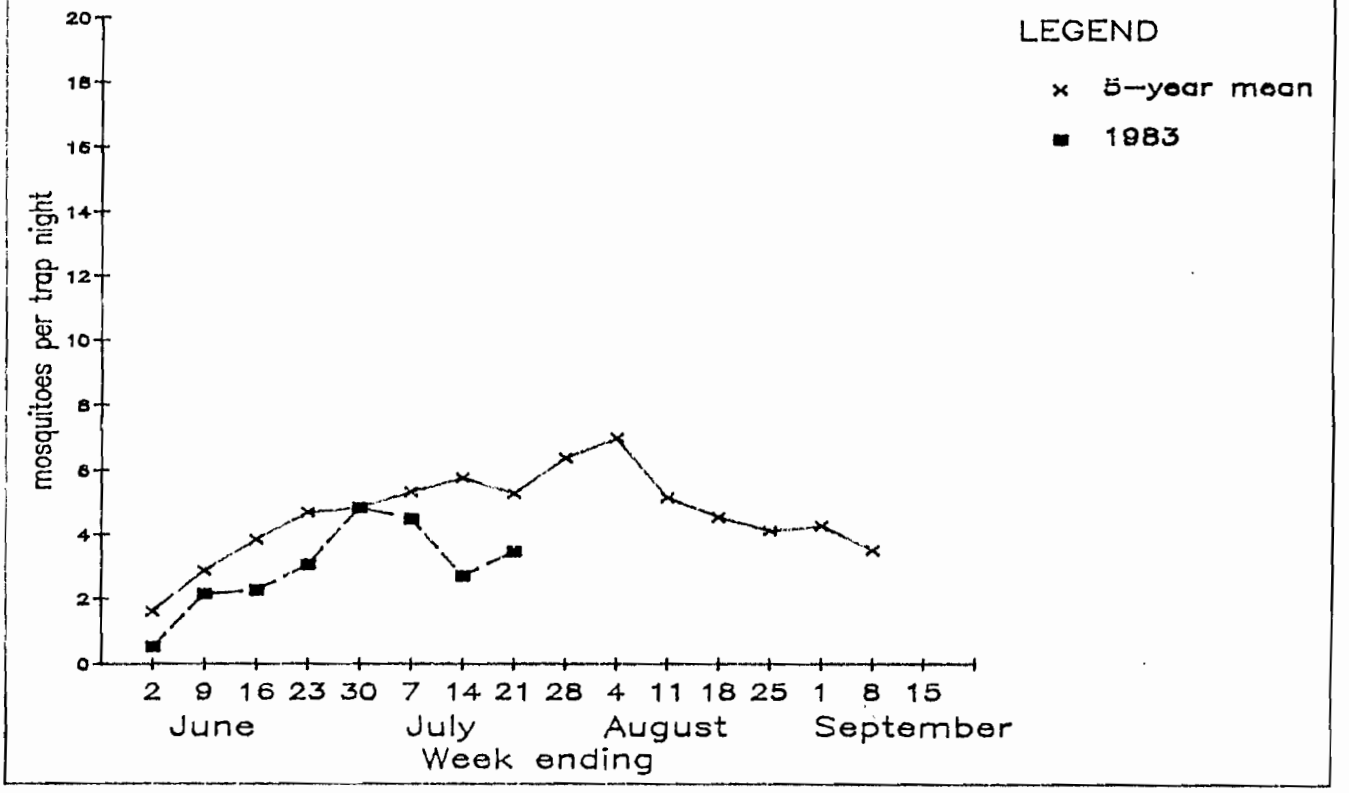
Region E
South Urban

Aedes vexans



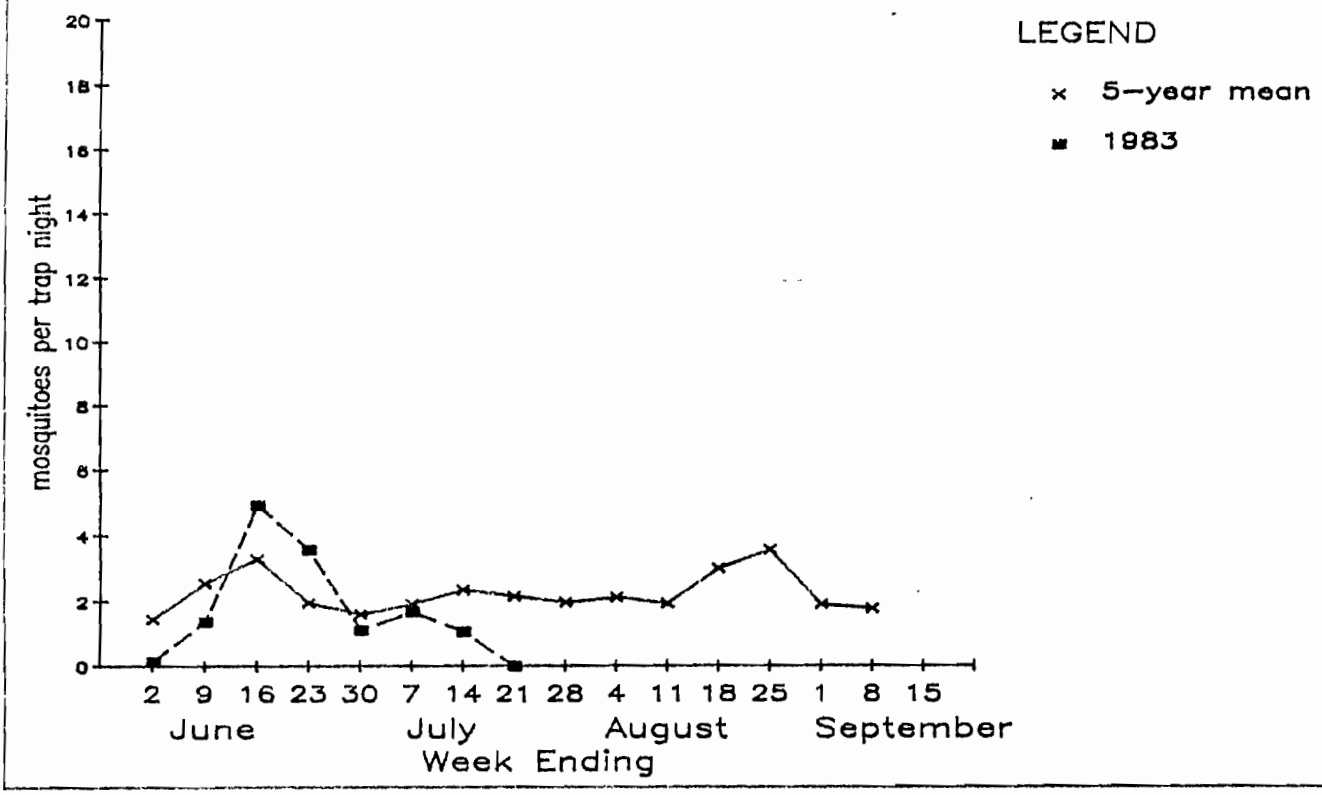
Region D
North Urban

Culex



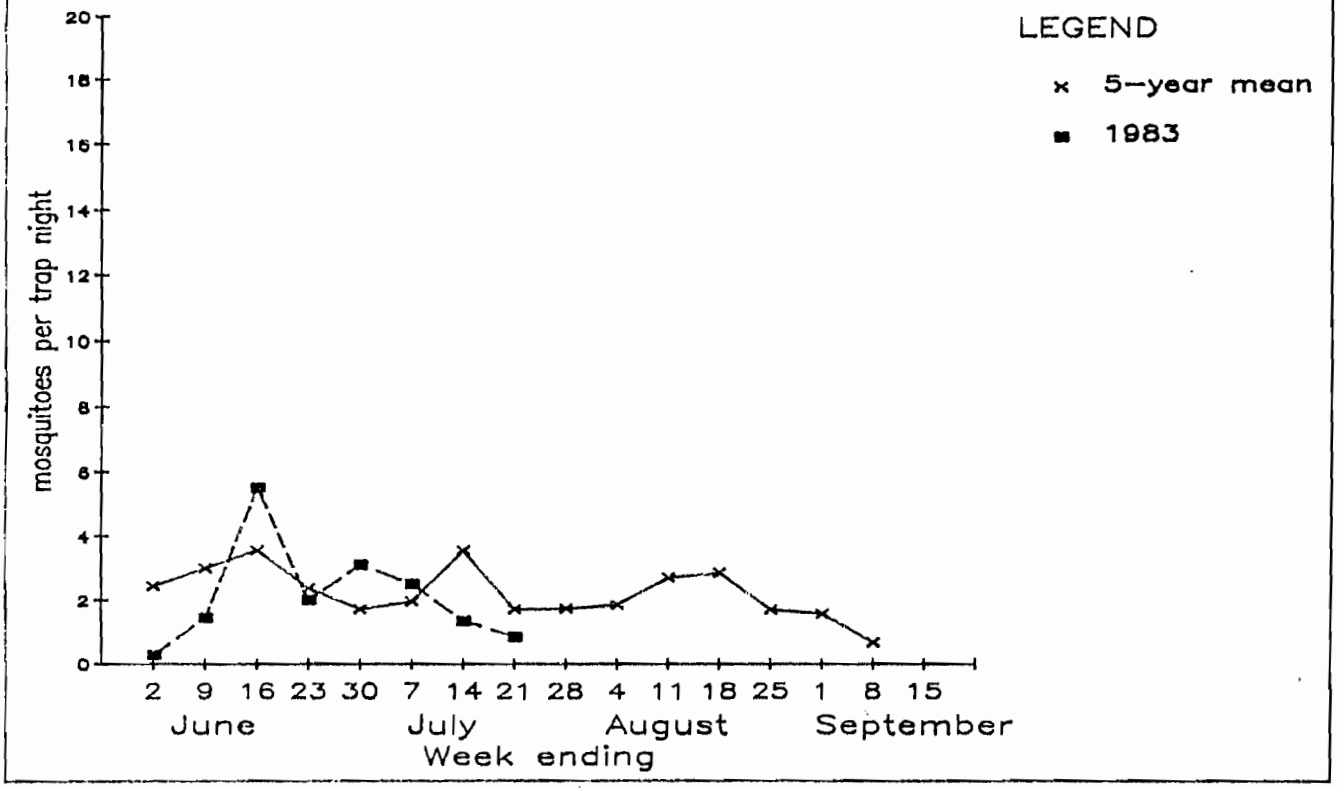
Region C
Central Rural

Aedes vexans



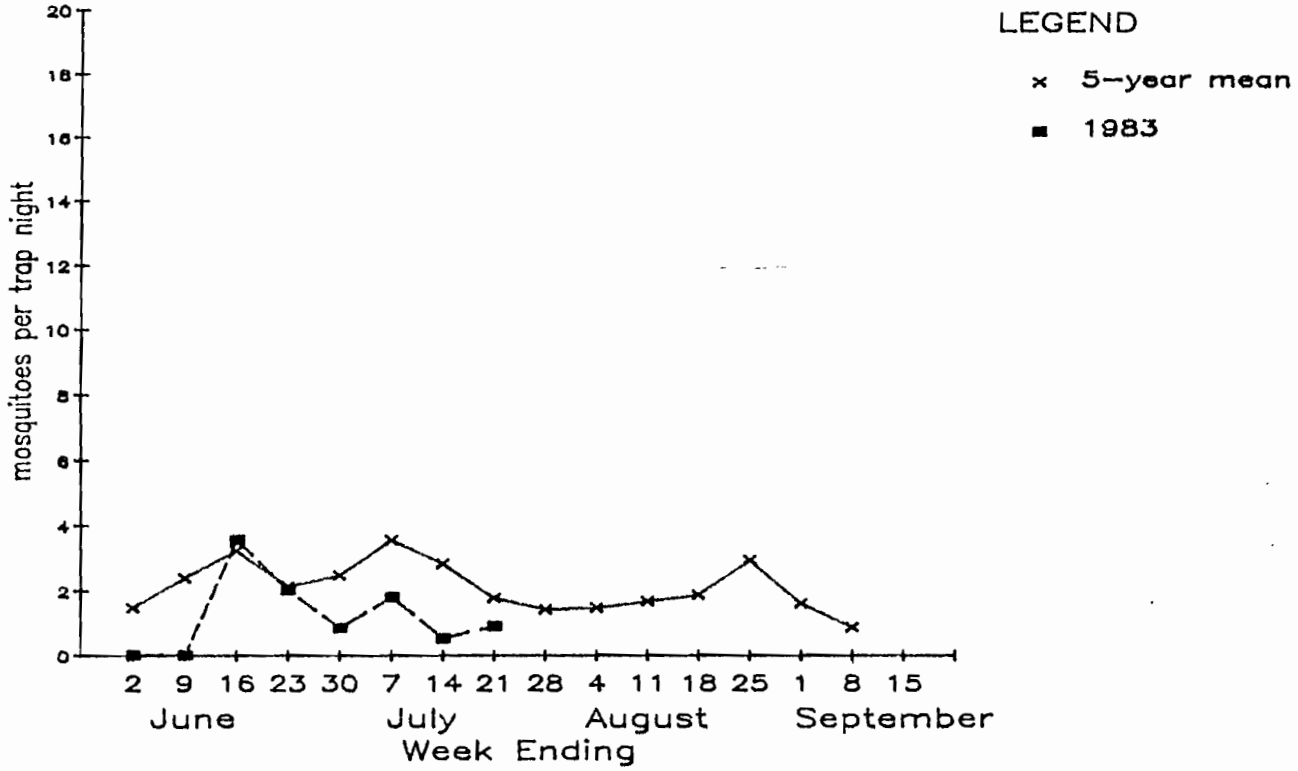
Region D
North Urban

Aedes vexans



Region A
North Rural

Aedes vexans



Region B
Passaic Valley

Aedes vexans