

Anopheles earlei VARGAS, AN ADDITION TO THE
CHECKLIST OF NEW JERSEY MOSQUITOES

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Anopheles earlei Vargas is recognized as a mosquito species of northern distribution that occurs across the northern United States and Canada to Alaska (Carpenter and LaCasse, 1955). The species has not been included on the New Jersey list, but has been reported from New York State (Barnes *et al.*, 1950) and the New England States (Fellton *et al.*, 1950). Recently, *Anopheles earlei* was found breeding in Northern New Jersey.

On August 2, 1966, a single 4th instar larva was taken at High Point State Park in Sussex County. The specimen was found in the weed-choked backwater of a beaver pond in association with *Anopheles punctipennis*, *Anopheles quadrimaculatus*, *Culex territans*, and *Uranotaenia sapphirina*. Attempts to locate additional specimens from this area proved unsuccessful. The specimen from High Point was sent to Dr. Alan Stone of the U. S. National Museum, who confirmed the identification as *Anopheles earlei* Vargas.

On August 17, 1966, three larvae and one pupa were taken from a clear fresh water swamp at Hainesville, New Jersey, an area approximately 6 mi. WSW of the first location. *Uranotaenia sapphirina* was the predominant species in the area, although all of the aforementioned associated species were present. The pupa and two of the three larvae were reared to the adult stage.

The addition of *Anopheles earlei* brings the New Jersey list to 52. It now includes the following species:

Genus *Aedes* Meigen

1. *Aedes abserratus* (Felt & Young)
2. *Aedes atlanticus* Dyar & Knab
3. *Aedes atropalpus* (Coquillett)
4. *Aedes aurifer* (Coquillett)
5. *Aedes canadensis* (Theobald)
6. *Aedes cantator* (Coquillett)
7. *Aedes cinereus* Meigen
8. *Aedes communis* (DeGeer)
9. *Aedes dorsalis* (Meigen)
10. *Aedes dupreei* (Coquillett)
11. *Aedes excrucians* (Walker)
12. *Aedes fitchii* (Felt & Young)
13. *Aedes grossbeckii* Dyar & Knab

14. *Aedes implicatus* Vockeroth
15. *Aedes intrudens* Dyar
16. *Aedes mitchellae* (Dyar)
17. *Aedes punctor* (Kirby)
18. *Aedes sollicitans* (Walker)
19. *Aedes sticticus* (Meigen)
20. *Aedes stimulans* (Walker)
21. *Aedes taeniorhynchus* (Wiedemann)
22. *Aedes trichurus* (Dyar)
23. *Aedes triseriatus* (Say)
24. *Aedes trivittatus* (Coquillett)
25. *Aedes vexans* (Meigen)

Genus *Culex* Linnaeus

26. *Culex pipiens* Linnaeus
27. *Culex restuans* Theobald
28. *Culex salinarius* Coquillett
29. *Culex territans* Walker

Genus *Culiseta* Felt

30. *Culiseta inornata* (Williston)
31. *Culiseta melanura* (Coquillett)
32. *Culiseta minnesotae* Barr
33. *Culiseta morsitans* (Theobald)

Genus *Mansonia* Blanchard

34. *Mansonia perturbans* (Walker)

Genus *Orthopodomyia* Theobald

35. *Orthopodomyia signifera* (Coquillett)
36. *Orthopodomyia alba* Baker

Genus *Psorophora* Robineau-Desvoidy

37. *Psorophora ciliata* (Fabricius)
38. *Psorophora confinis* (Lynch-Arribalzaga)
39. *Psorophora discolor* (Coquillett)
40. *Psorophora ferox* (Humboldt)
41. *Psorophora varipes* (Coquillett)

Genus *Toxorhynchites* Theobald

42. *Toxorhynchites rutilus septentrionalis* (Dyar & Knab)

Genus *Uranotaenia* Lynch-Arribalzaga

43. *Uranotaenia sapphirina* (Osten Sacken)

Genus *Wyeomyia* Theobald

44. *Wyeomyia smithii* (Coquillett)

Genus *Anopheles* Meigen

45. *Anopheles atropos* Dyar & Knab
46. *Anopheles barberi* Coquillett
47. *Anopheles bradleyi* King
48. *Anopheles crucians* Wiedemann
49. *Anopheles earlei* Vargas
50. *Anopheles punctipennis* (Say)
51. *Anopheles quadrimaculatus* Say
52. *Anopheles walkeri* Theobald

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