

Mosquito Diversity and the Arizona Landscape

Notes on the Mosquitoes



Mosquito Species in Arizona, 2012

Aedes:

aegypti
vexans

Anopheles:

franciscanus
hermsi
judithae

Culex:

apicalis
arizonensis
coronator
erraticus
erythrothorax
nigripalpus
quinquefasciatus
restuans
salinarius
stigmatosoma
tarsalis
territans
thriambus

Culiseta:

incidens
inornata
particeps

Ochlerotatus:

burgeri
cataphylla
dorsalis
epactius
fitchii
implicatus
monticola
muelleri
nigromaculis
papago
pullatus
purpureipes
sollicitans
taeniorhynchus
thelcter
trivittatus
varipalpus
ventrovittus

Orthopodomyia:

kummi
signifera

Psorophora:

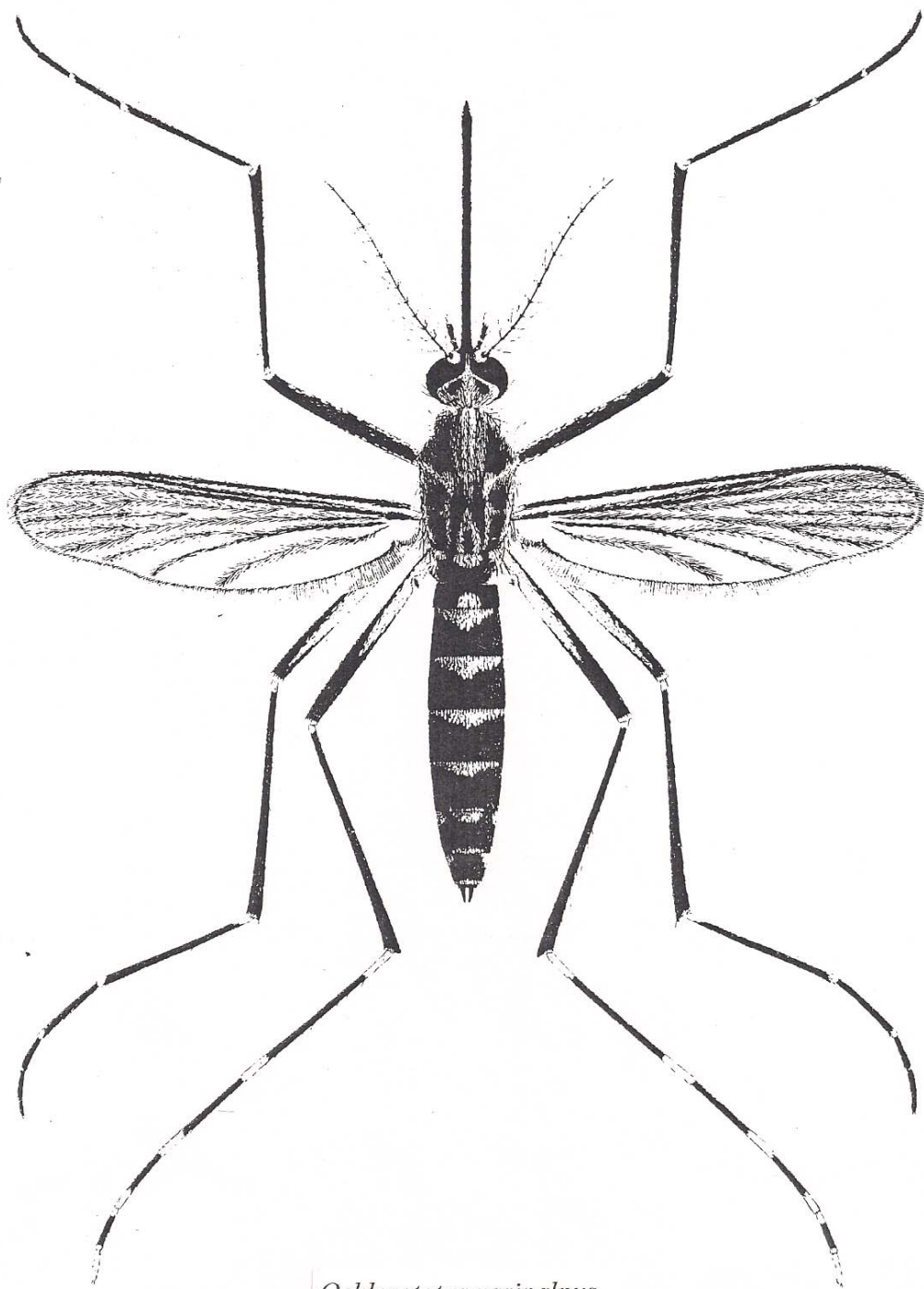
columbiae
discolor
howardii
signipennis

Toxorhynchites:

moctezuma

Uranotaenia:

anhydor anhydor



Ochlerotatus varipalpus

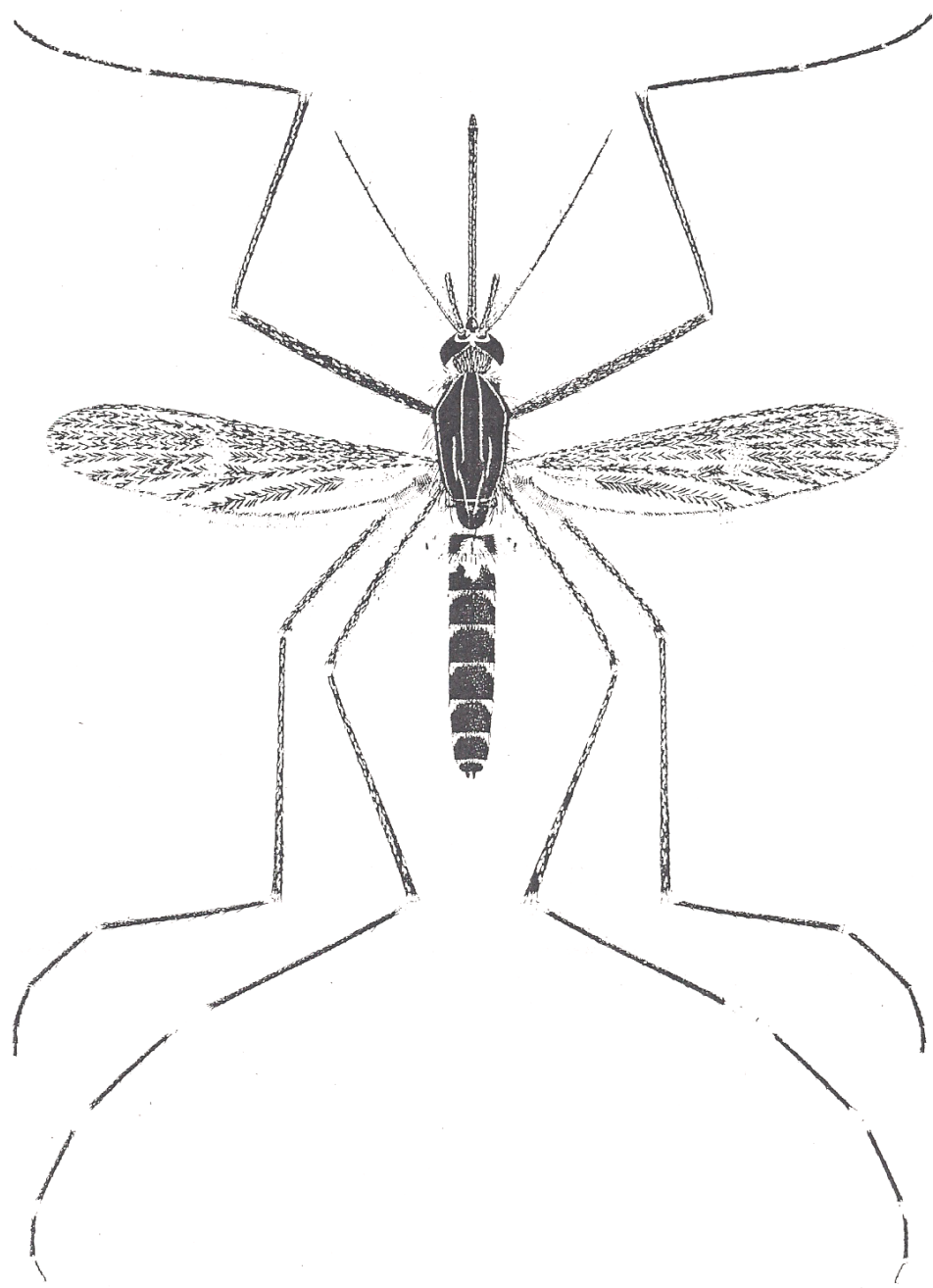
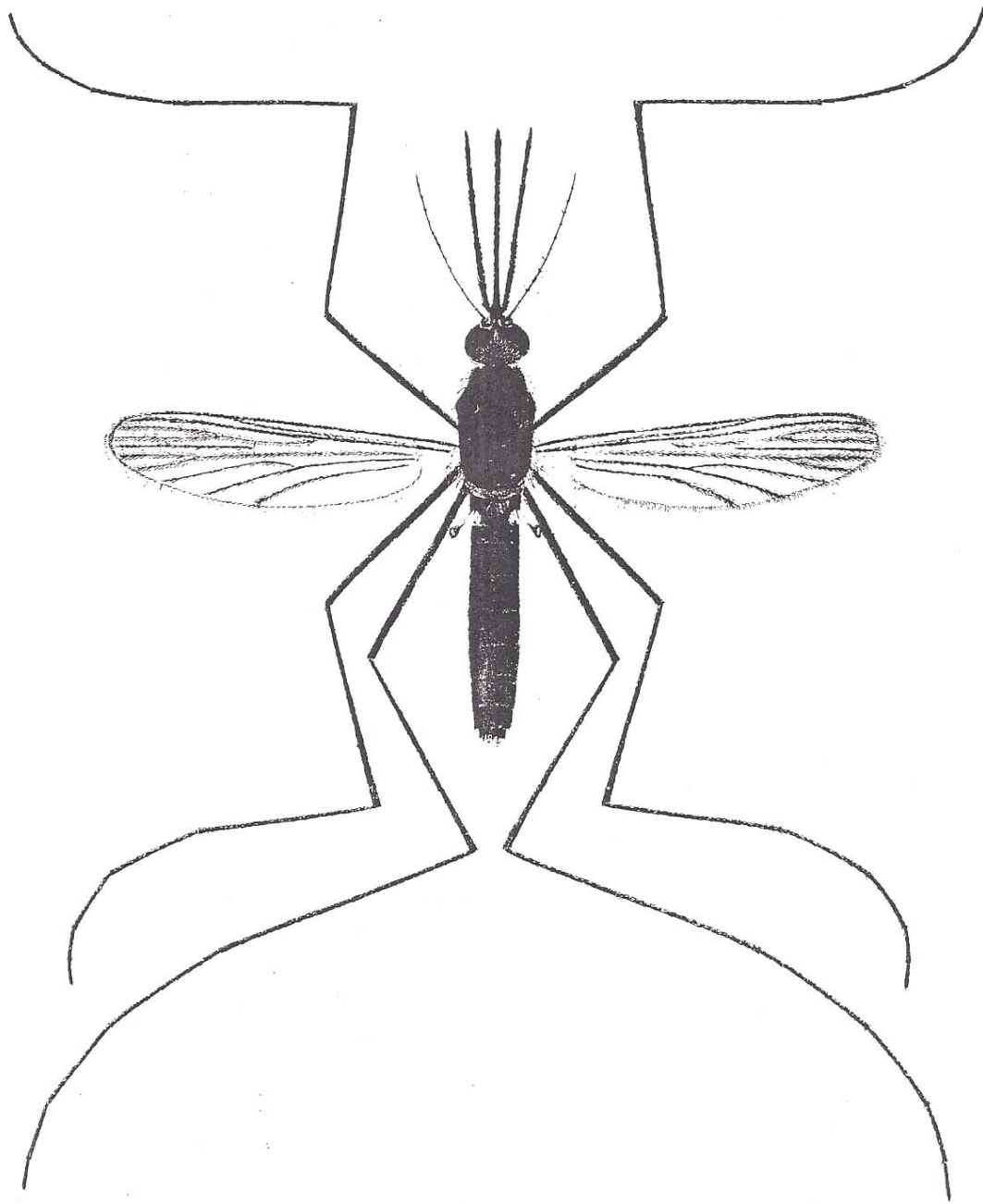
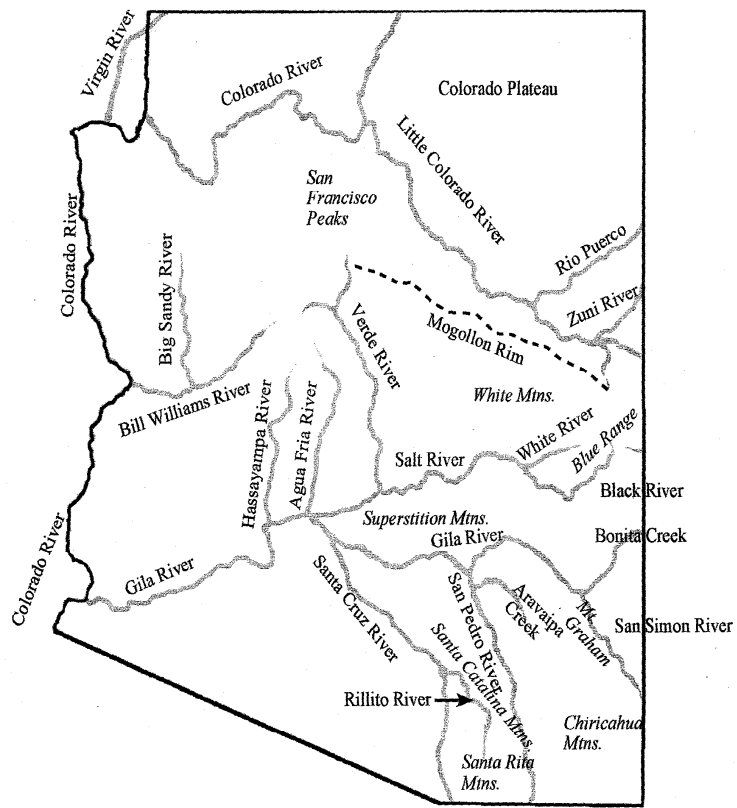


Plate 28. *Orthopodomyia signifera* (Coquillett), female.



Anopheles judithae



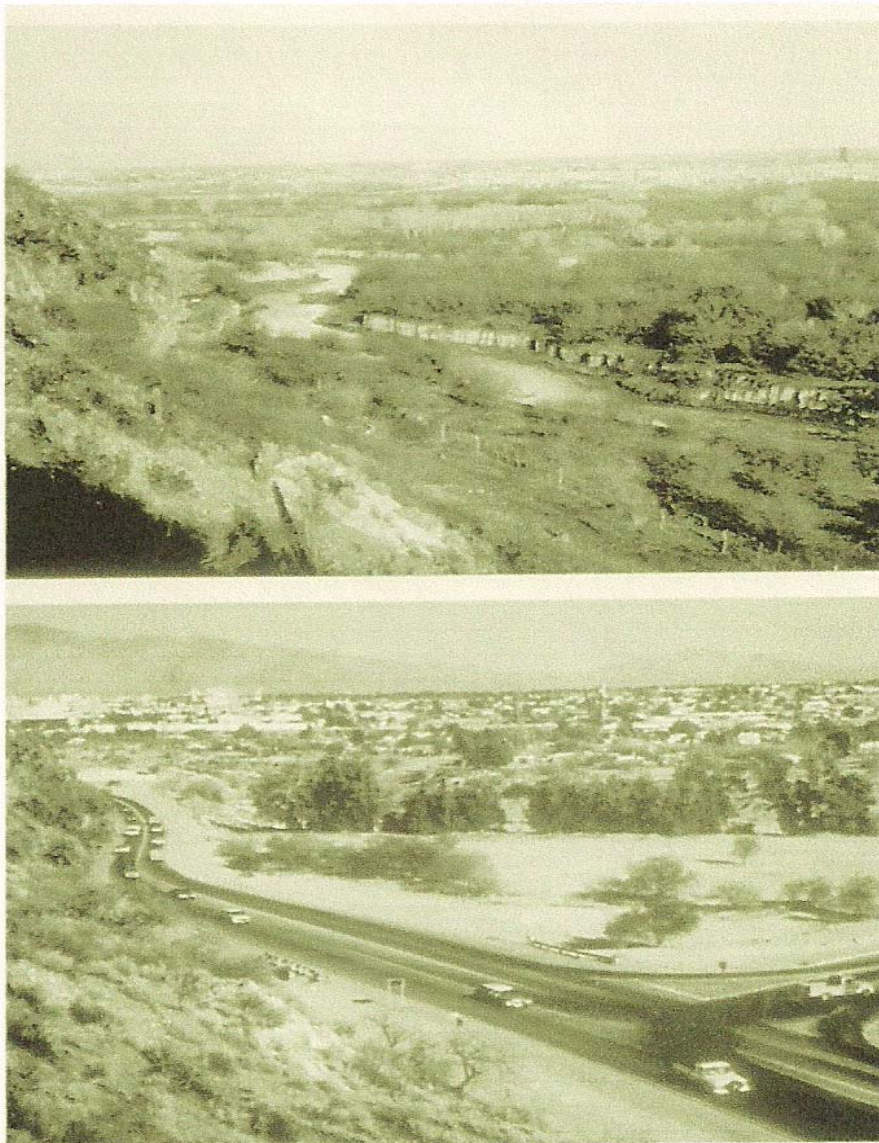


Figure 1. Santa Cruz River at 22nd Street and Mission Road, from Sentinel Peak (upper photo 1904, lower photo 1991) (Desert Laboratory, USGS)



SWEETWATER WETLAND MOSQUITO SPECIES LIST

Culex: tarsalis

quinquefasciatus

erythrothorax

thriambus/stigmatosoma/coronator

Aedes vexans

Ochlerotatus thelcter

Anopheles franciscanus

Culiseta inornata

Psorophora: columbiae

signipennis

howardii

Aedes aegypti (occasional, probably straying into wetland)

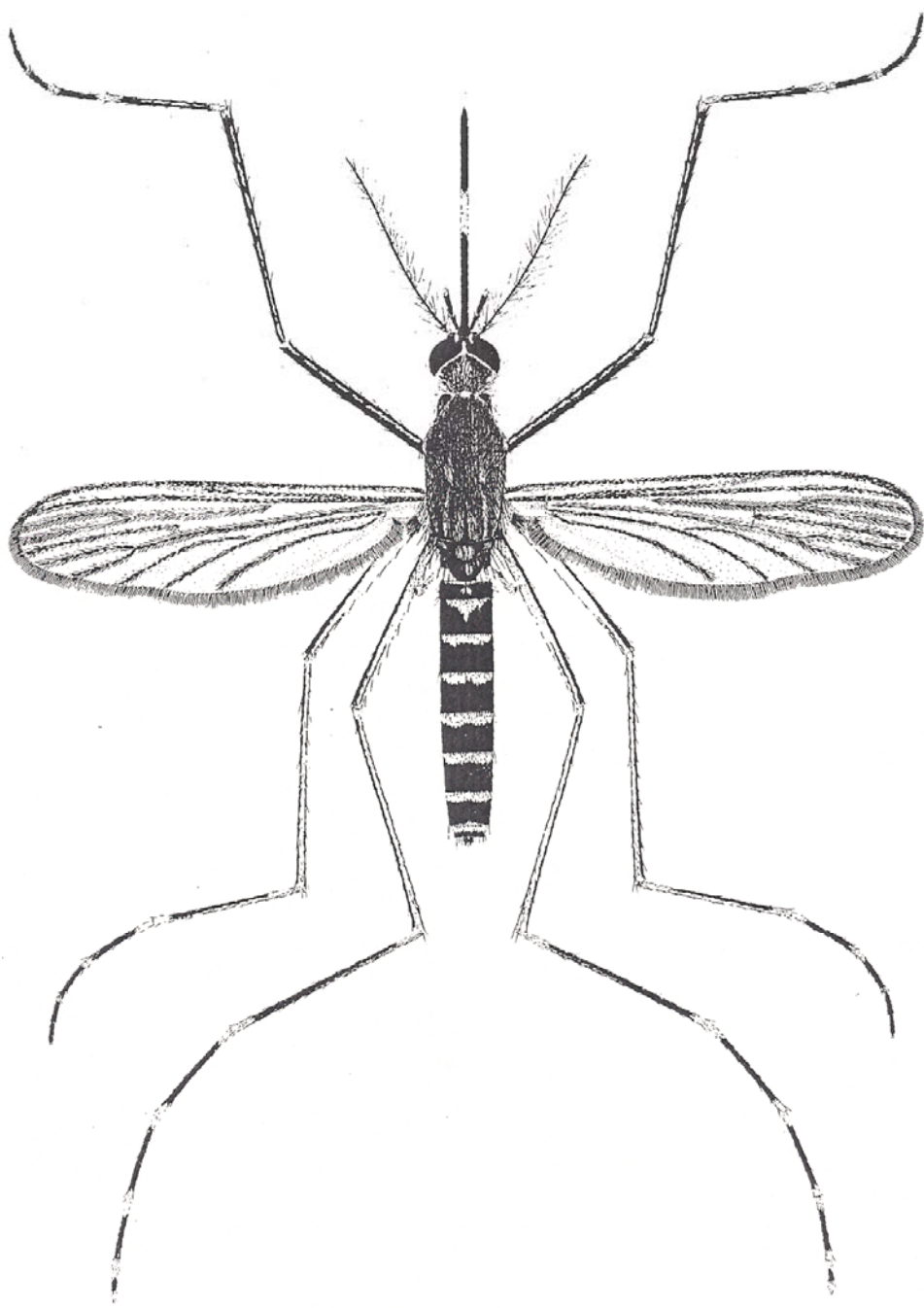


Plate 112. *Culex tarsalis* Coquillett, female.

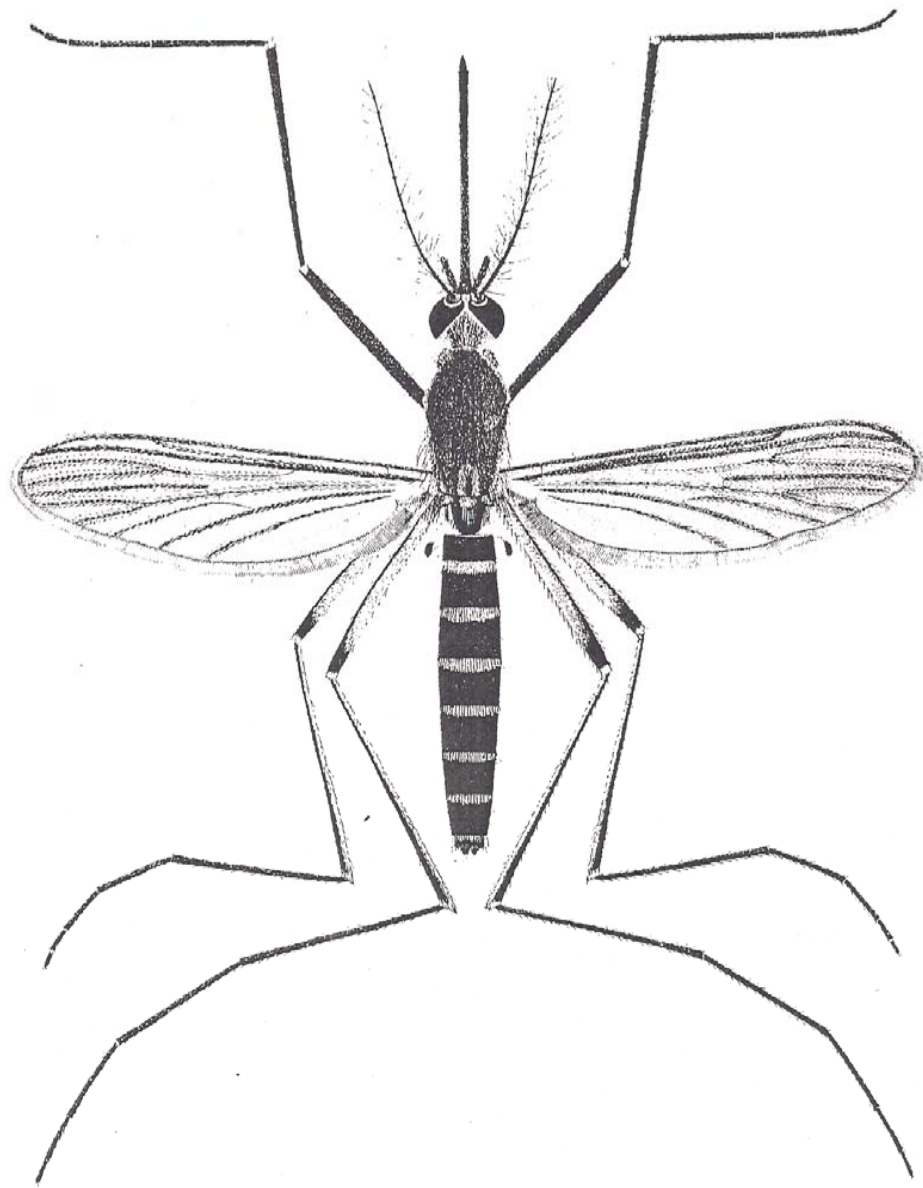
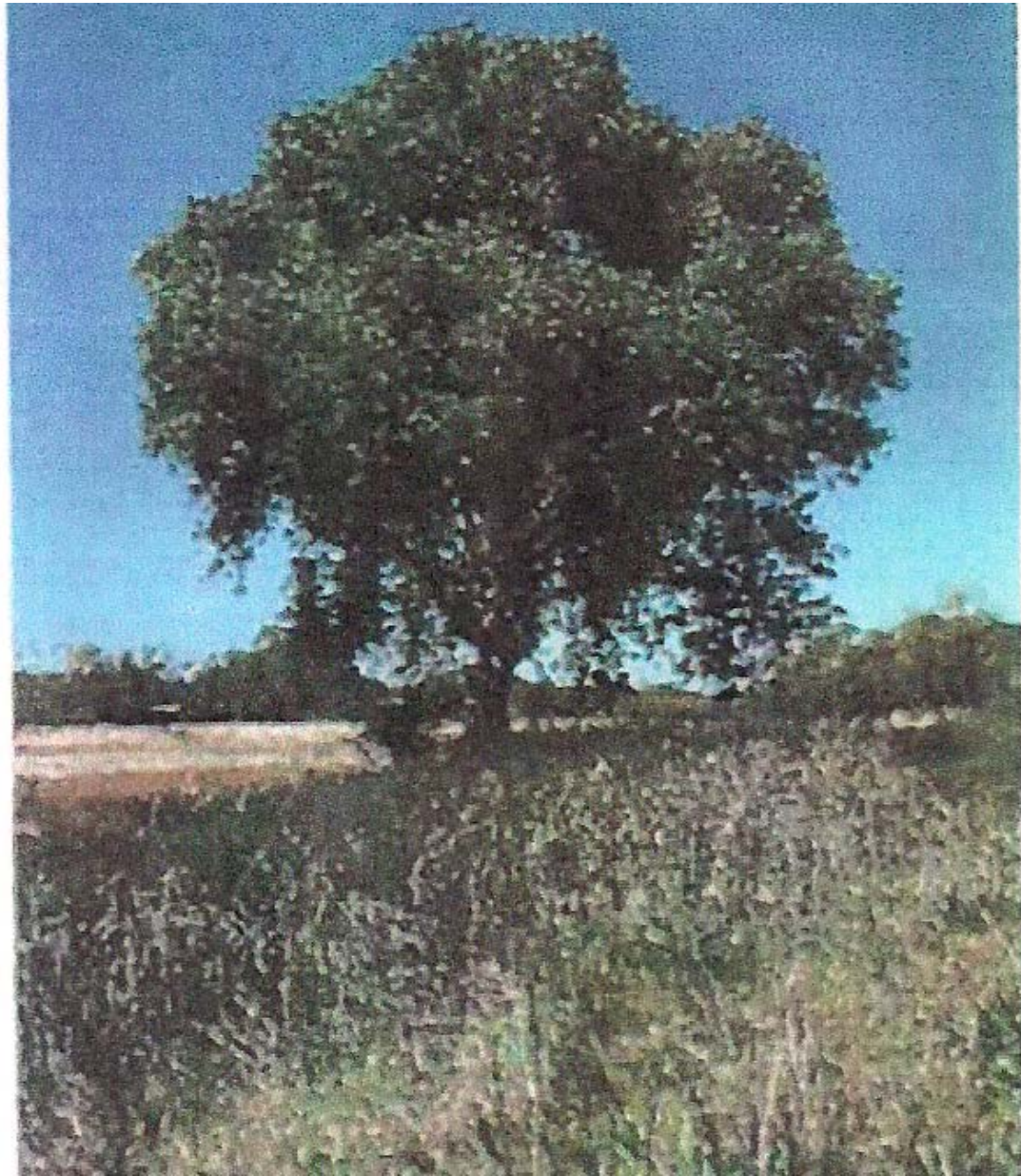
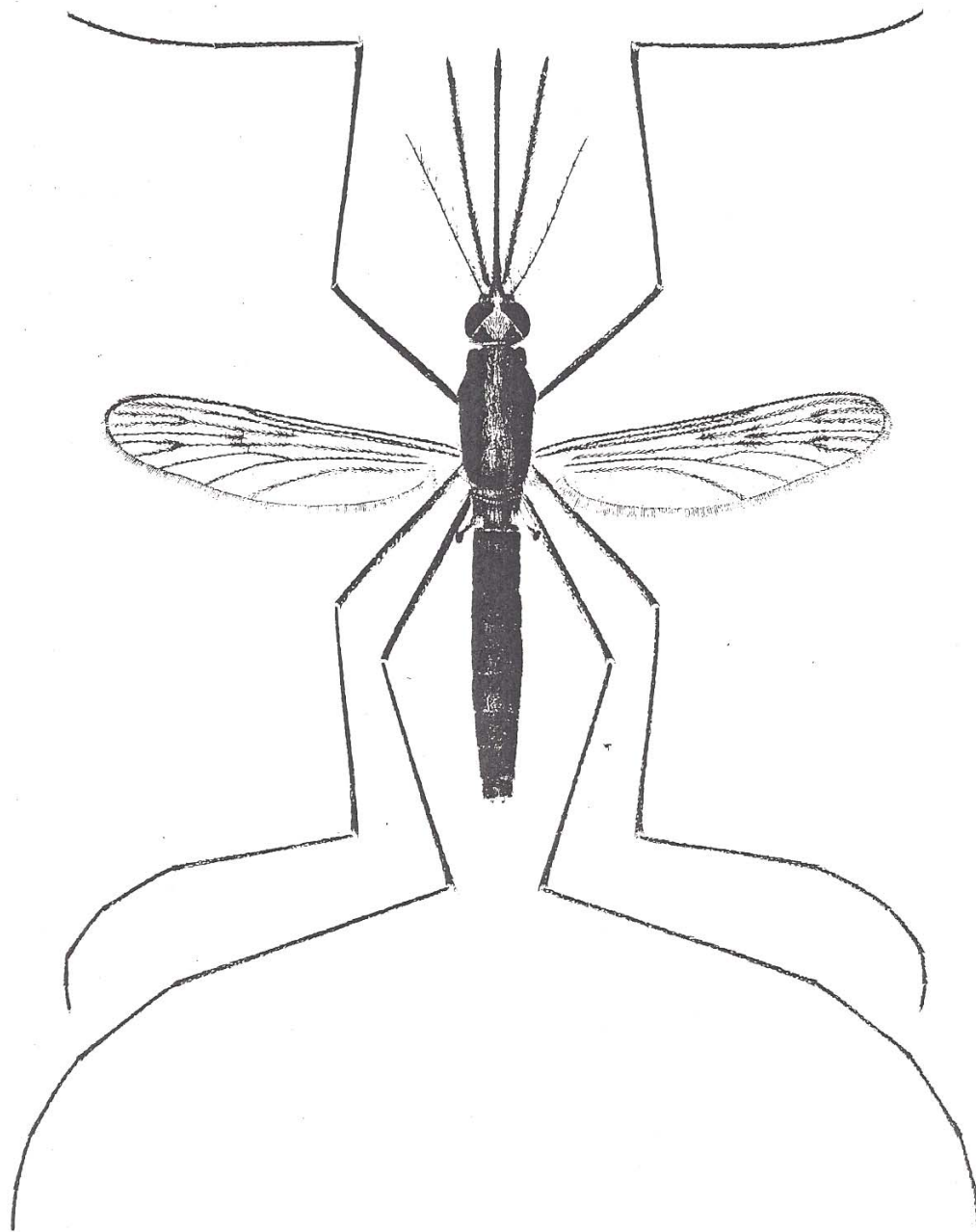


Plate 108. *Culex quinquefasciatus* Say, female.





Anopheles hermsi

LA CEBADILLA WETLAND MOSQUITO SPECIES LIST

Culex: tarsalis
quinquefasciatus
coronator/thriambus/stigmatosoma
subgenus Neoculex sp.
erythrothorax

Aedes vexans

Ochlerotatus: trivittatus
thelcter

Anopheles: franciscanus
hermsi

Psorophora: columbiae
howardii

Culiseta inornata

Aedes aegypti



Data SIO, NOAA, U.S. Navy, NGA, GEBCO
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32°13'45.68" N 110°56'29.63" W

elev 2456 ft

Eye alt 3018 ft



Data SIO, NOAA, U.S. Navy, NGA, GEBCO
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32°23'48.24" N 110°59'27.52" W

elev 2572 ft

Mar 9, 2011

Eye alt 4006 ft

Google

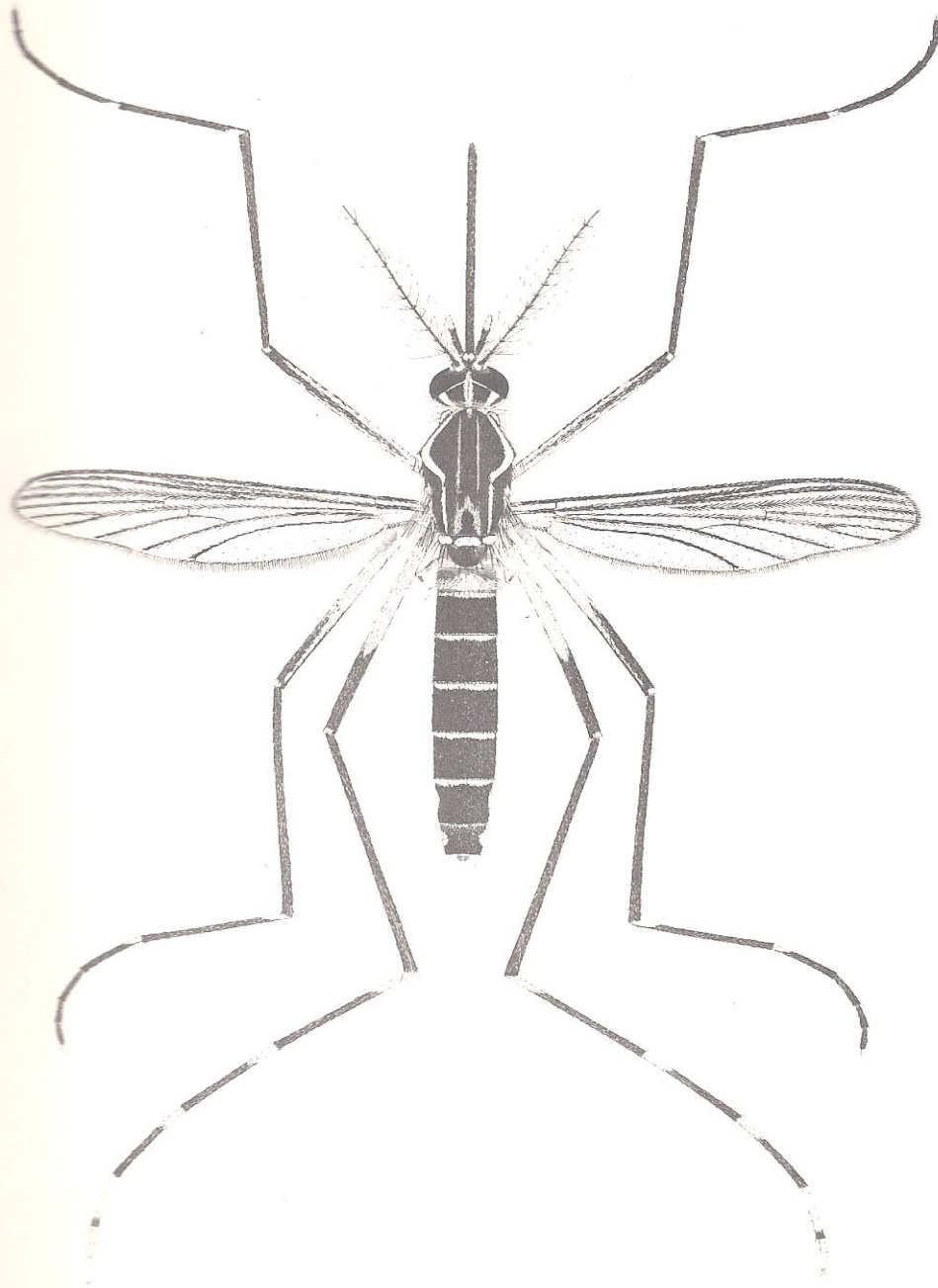


Plate 93. *Aedes aegypti* (Linnaeus), female.

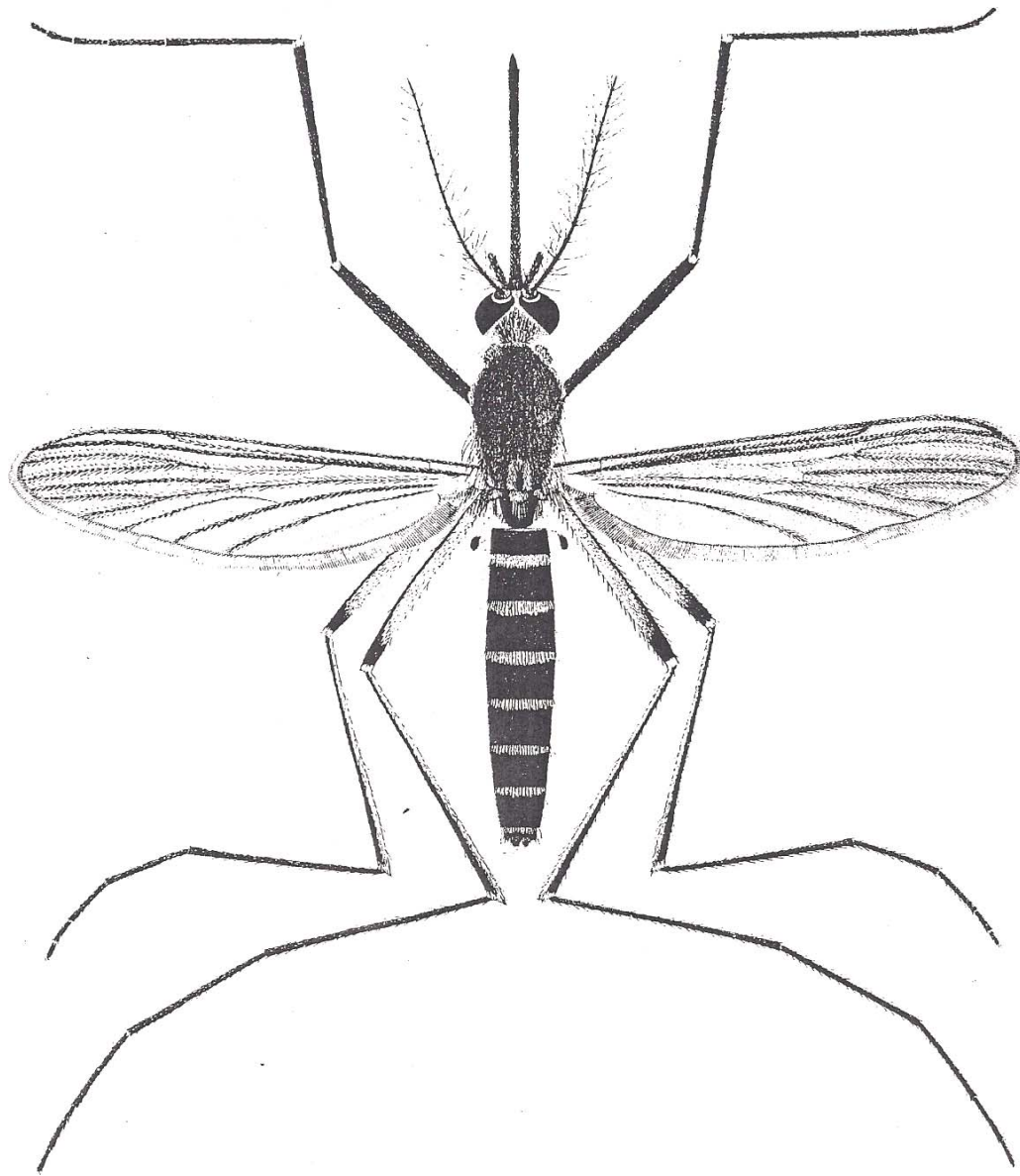
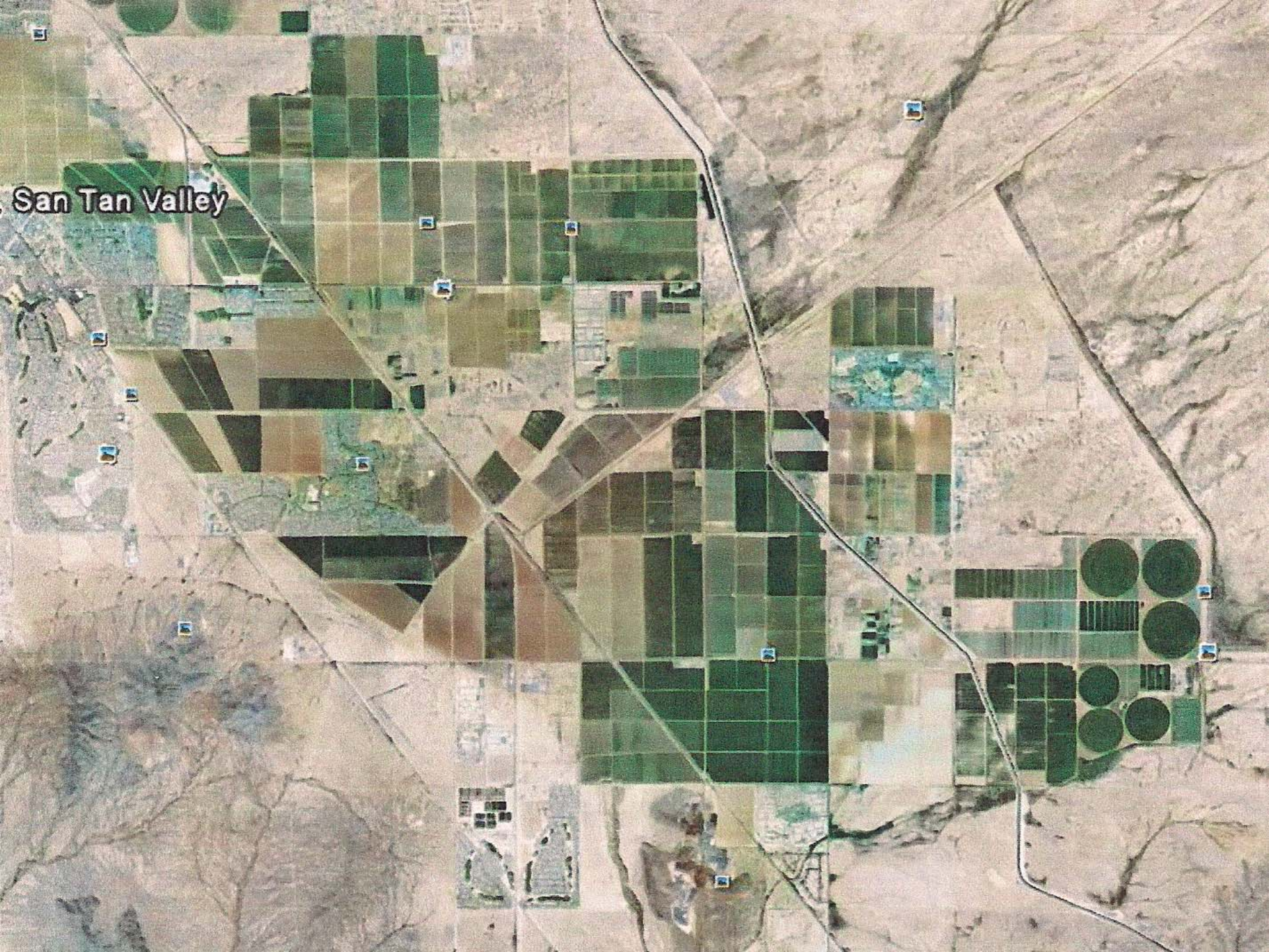
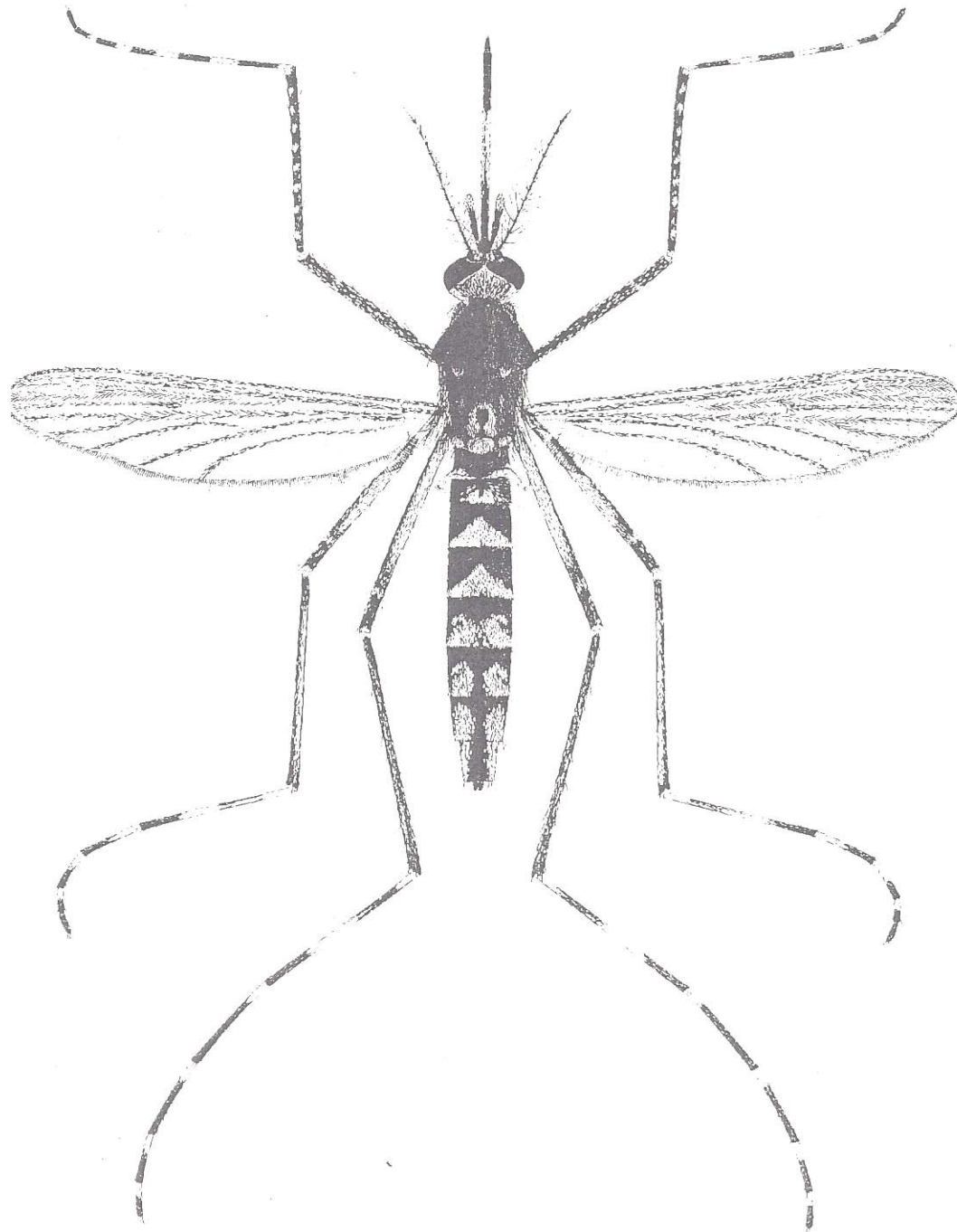


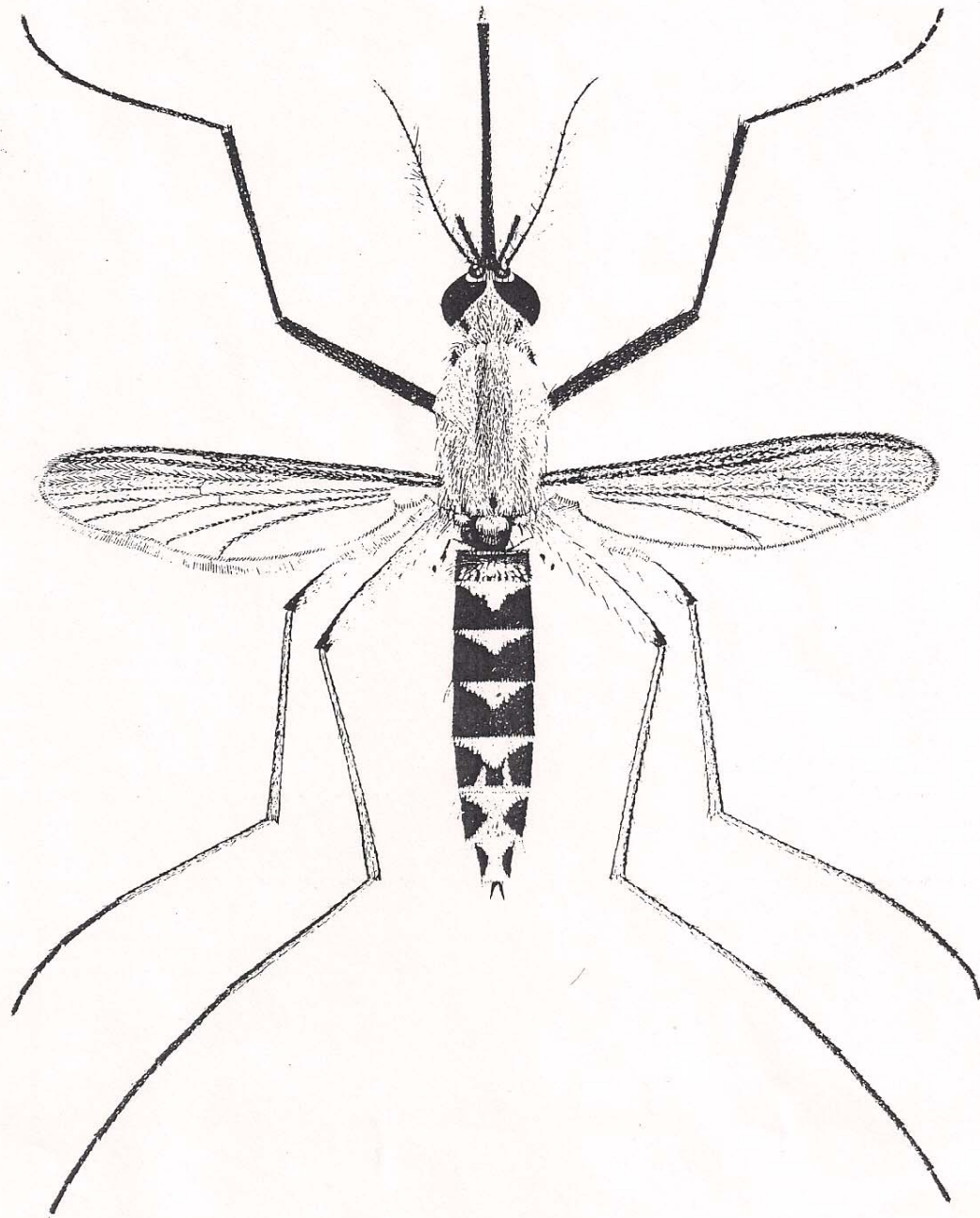
Plate 108. *Culex quinquefasciatus* Say, female.

San Tan Valley





Psorophora columbiae



Ochlerotatus thelcter

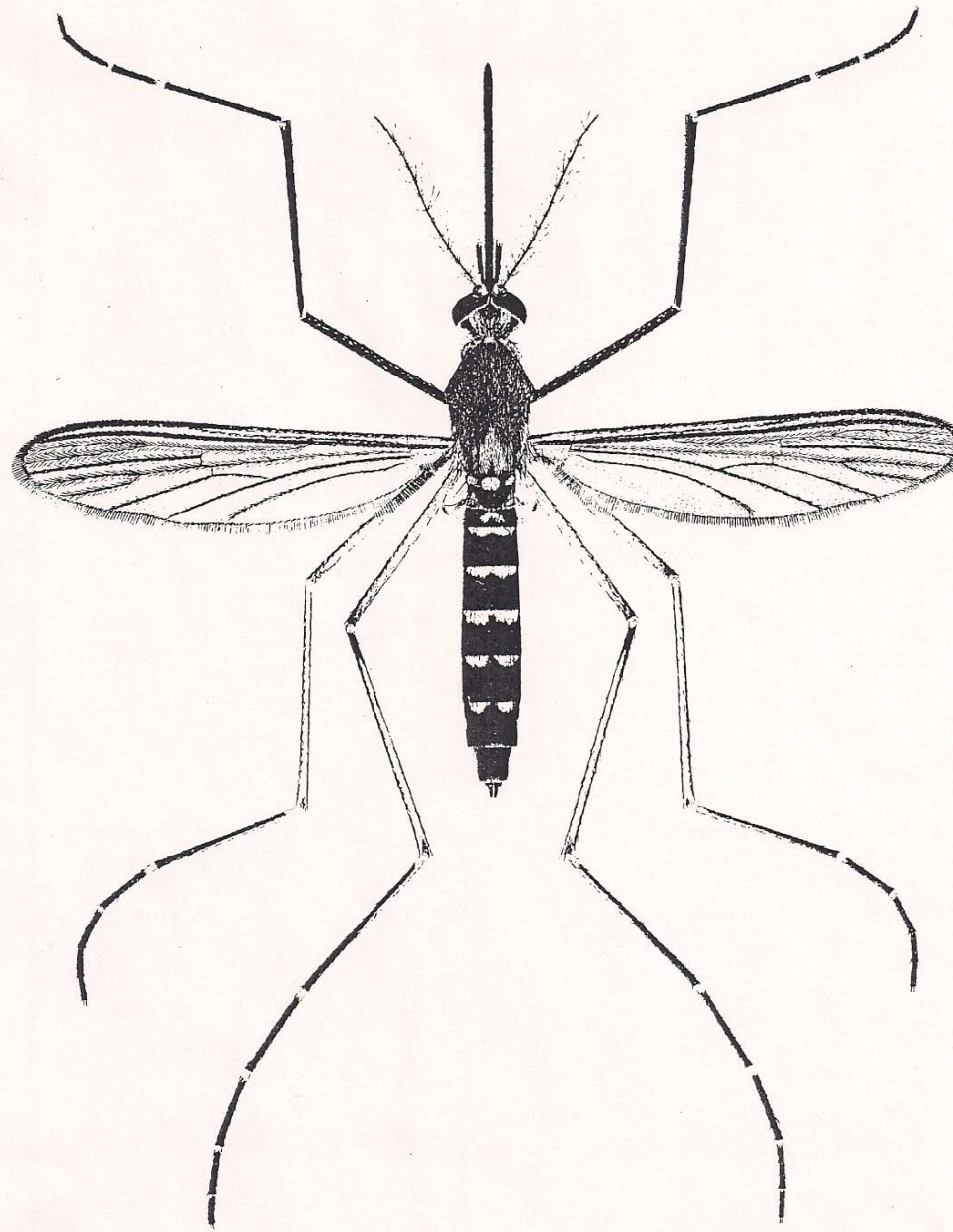


Plate 99. *Aedes vexans* (Meigen), female.

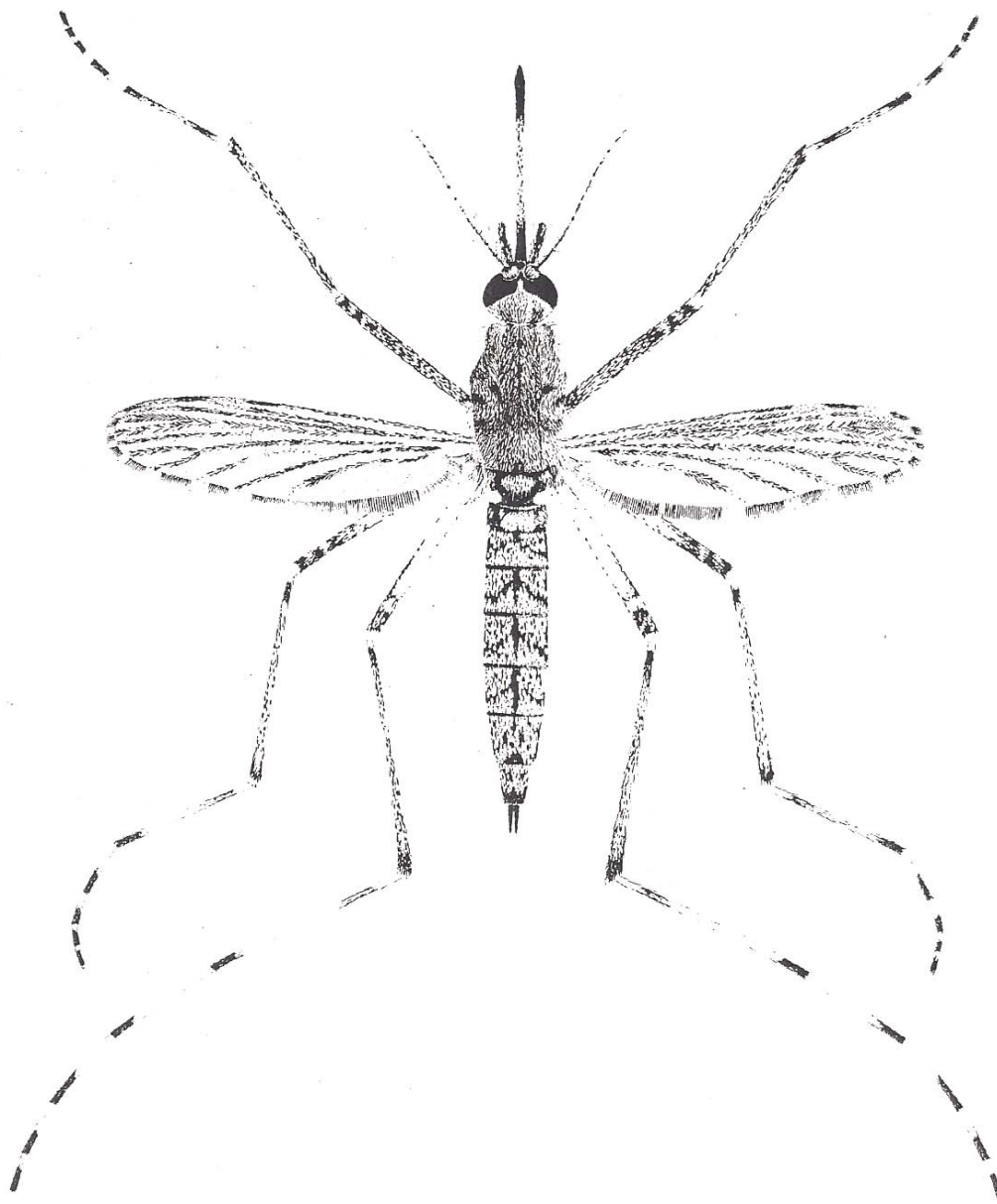


Plate 43. *Psorophora signipennis* (Coquillett), female.

Modeled response of the West Nile virus vector *Culex quinquefasciatus* to changing climate using the dynamic mosquito simulation model

Cory W. Morin · Andrew C. Comrie

Received: 19 March 2009 / Revised: 2 April 2010 / Accepted: 3 April 2010 / Published online: 5 August 2010

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Abstract Climate can strongly influence the population dynamics of disease vectors and is consequently a key component of disease ecology. Future climate change and variability may alter the location and seasonality of many disease vectors, possibly increasing the risk of disease transmission to humans. The mosquito species *Culex quinquefasciatus* is a concern across the southern United States because of its role as a West Nile virus vector and its affinity for urban environments. Using established relationships

summer population decline from drying in California due to loss of immature mosquito habitats, and in Florida a decrease in late-season mosquito populations due to drier late summer conditions.

Keywords Mosquito · Climate · Weather · Modeling · Disease · Vector



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A NOAA-SARP Project (2008-2010)

New Publication

Moving Forward from Vulnerability to Adaptation: Climate Change, Drought, and Water Demand in the Urbanizing Southwestern United States and Northern Mexico

Case Studies in Ambos Nogales, Puerto Peñasco, Tucson, and Hermosillo

Edited by Margaret Wilder, Christopher A. Scott, Nicolás Pineda-Pablos, Robert G. Varady, and Gregg M. Garfin

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fitchii
implicatus
monticola
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papago
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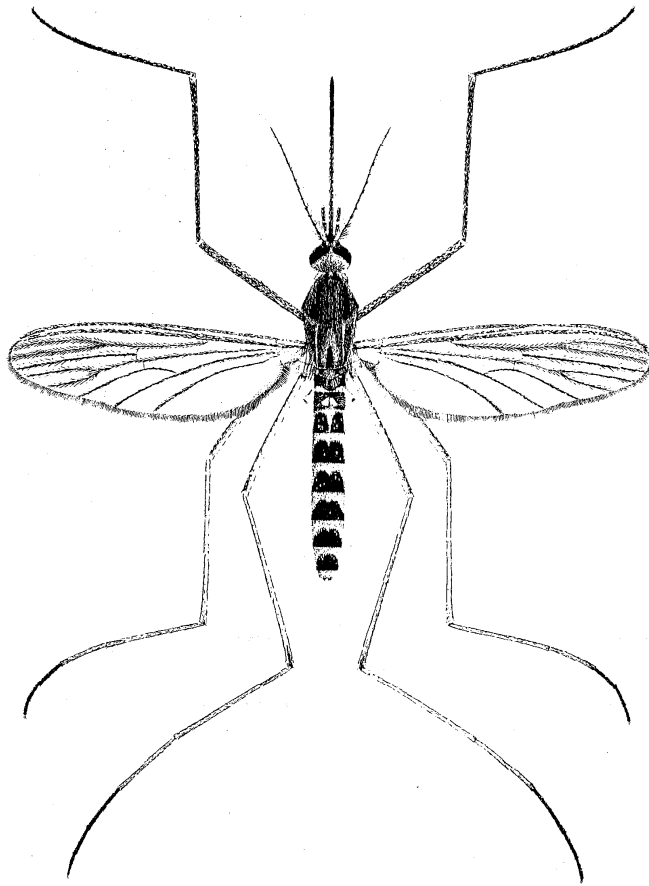


Plate 24. *Culiseta inornata* (Williston), female.

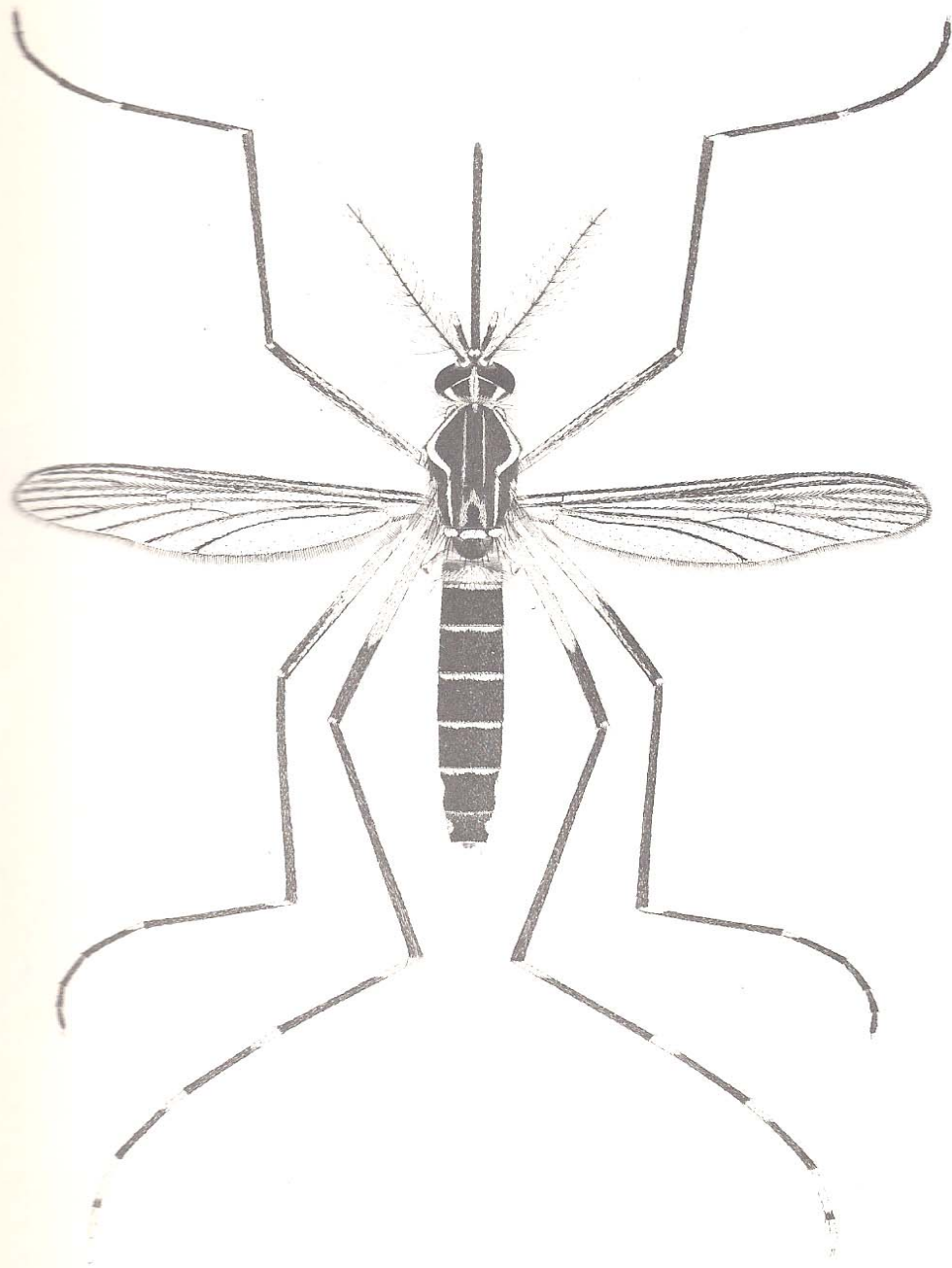


Plate 98. *Aedes aegypti* (Linnaeus), female.