

SOUTH DAKOTA MOSQUITO SPECIES

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South Dakota is bisected by the Missouri River into eastern and western halves which differ markedly in their ecological relationships. Eastern South Dakota is relatively humid, was originally long-grass prairie and with a topography resulting from recent glaciation which produced many lakes, pot-holes and marshes. Western South Dakota is semi-arid short-grass prairie with much of the area deeply

eroded. Agricultural practices differ correspondingly; dry farming of considerable diversity characterizing the east, and irrigated forage crops predominating in the west.

The most numerous mosquito species, similarly, differ in the two regions. *Aedes vexans* Meigen is the most prevalent pest species in eastern South Dakota while *Aedes dorsalis* (Meigen) and *Aedes nigromaculis* (Ludlow) are most frequently encountered in the arid west. *Culex tarsalis* Coquillett is distributed

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throughout the state and is often the most abundant or second most abundant species in particular localities of the east. *Culiseta inornata* (Williston) is similarly ubiquitous but seldom encountered in large numbers.

The following list includes those species which have been collected within South Dakota. It is probable that *Aedes excrucians* (Walker), *Aedes fitchii* (Felt and Young), and *Aedes dianteus* (Howard, Dyar and Knab) occur within the state since they are common in neighboring states with similar ecological conditions.

Anopheles (Anopheles) barberi Coquillett
Anopheles (Anopheles) earlei Vargas
Anopheles (Anopheles) punctipennis Say
Anopheles (Anopheles) quadrimaculatus

Say

Anopheles (Anopheles) walkeri Theobald
Uranotaenia sapphirina (Osten Sacken)
Culiseta (Culiseta) impatiens (Walker)
Culiseta (Culiseta) incidens (Thomson)
Culiseta (Culiseta) inornata (Williston)
Culiseta (Culicella) morsitans (Theobald)
Orthopodomyia signifera (Coquillett)
Mansonia (Coquillettia) perturbans (Walker)

Psorophora (Psorophora) ciliata (Fabricius)

Psorophora (Janthinosoma) ferox (Humboldt)

Psorophora (Janthinosoma) horrida (Dyar and Knab)

Psorophora (Janthinosoma) longipalpis Roth

Psorophora (Grabhamia) confinnis Lynch-Arribalza

Psorophora (Grabhamia) signipennis (Coquillett)

Aedes (Ochlerotatus) campestris Dyar and Knab

Aedes (Ochlerotatus) canadensis (Theobald)

Aedes (Ochlerotatus) dorsalis (Meigen)

Aedes (Ochlerotatus) flavescens (Muller)

Aedes (Ochlerotatus) idahoensis (Theobald)

Aedes (Ochlerotatus) increpitus (Dyar)

Aedes (Ochlerotatus) intrudens (Dyar)

Aedes (Ochlerotatus) nigromaculis (Ludlow)

Aedes (Ochlerotatus) sollicitans (Walker)

Aedes (Ochlerotatus) spencerii (Theobald)

Aedes (Ochlerotatus) sticticus (Meigen)

Aedes (Ochlerotatus) stimulans (Walker)

Aedes (Ochlerotatus) trivittatus (Coquillett)

Aedes (Finlaya) triseriatus (Say)

Aedes (Aedimorphus) vexans (Meigen)

Aedes (Aedes) cinereus (Meigen)

Culex (Culex) pipiens (Linnaeus)

Culex (Culex) restuans (Theobald)

Culex (Culex) salinarius (Coquillett)

Culex (Culex) tarsalis (Coquillett)

Culex (Neoculex) territans (Walker)

Culex (Melanoconion) erraticus (Dyar and Knab)

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