

NEW MOSQUITO DISTRIBUTION RECORDS FOR TEXAS

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The extensive mosquito survey program carried on by army installations in the Eighth Service Command in 1944 and 1945 added considerable information to that already available on the distribution of Texas mosquito species. Distribution records of Texas mosquitoes have been recorded by McGregor and Eads (1943), O'Neill, *et al.* (1944) and the Texas State Health Department (1944). New mosquito records obtained as a result of the 1944 and 1945 army program are here presented. These records include three new state and 107 additional locality records and were obtained from 298,280 specific identifications of mosquitoes collected at thirty-two army installations in Texas during the two years.

Three species, *Aedes dupreei*, *Culex peccator* and *Deinocerites epitedeus*, are recorded from Texas for the first time. Of interest also are the numerous inland occurrences of salt water *Aedes*. Both *Aedes sollicitans* and *Aedes taeniorhynchus* were found as far inland as Sheppard Field (Wichita county). Another record worthy of special mention is that of the occurrence of *Anopheles albimanus* at Laredo, about 160 miles northwest of Brownsville. Eads (1946) reported this species from Corpus Christi.

The different types of collections are indicated as follows:

Biting or while resting on person collections. . . (B)
Larval collections (L)
Net collections (N)
Diurnal resting place collections. (R)
Light trap collections (New Jersey type) (T)

Arrangement of data: Species, county, station, year, type of collection, number of specimens collected, months.

Aedes alleni Turner: BROWN—Camp Bowie, 1945: (T) 1♂ May, 1♀ June. COLLIN—Ashburn General Hospital, 1944; (R) 1♀ June. PARKER—Camp Wolters, 1945: (R) 1♂ 1♀ April, 1♂ 1♀ May, 1♀ June, 1♂ July; (T) 3♂ 2♀ May, 3♂ June.

Aedes atropalpus (Coquillett): BROWN—Camp Bowie, 1945: (R) 1♂ April, 1♀ May, 2♀ July, 1♀ August, 1♀ September. CORYELL—Camp Hood, 1945: (L) 5 May. PARKER—Camp Wolters, 1945: (R) 2♀ April.

Aedes canadensis (Theobald): LAMAR—Camp Maxey, 1945: (B) 2♀ April; (L) 138 March, 58 April, 37 May, 11 June, 1 July; (R) 2♂ March, 29♂ 1♀ April, 1♀ May.

Aedes dorsalis (Meigen): WICHITA—Sheppard Field, 1945: (T) 1♂ 4♀ June.

Aedes dupreei (Coquillett): * BEXAR—Fort Sam Houston, 1945: (T) 1♂ April. LAMAR—Camp Maxey, 1945: (L) 2 May.

Aedes infirmatus Dyar and Knab: BEXAR—Camp Bullis, 1944: (L) 2 May. Fort Sam Houston, 1944: (T) 1♂ September.

Aedes mitchellae (Dyar): BEXAR—Fort Sam Houston: (L) 1 April 1944, 1 August 1944, 1 March 1945; (T) 1♂ June 1944. WEBB—Laredo Army Air Field, 1944: (L) 6 May, 25 November. WICHITA—Sheppard Field, 1945: (L) 1 July; (T) 1♂ April.

Aedes nigromaculis (Ludlow): BROWN—Camp Bowie, 1945: (L) 2 March, 36 April, 1 May; (T) 7♂ 7♀ March, 1♂ 2♀ April, 1♂ 2♀ May, 1♂ 8♀ June, 1♂ 21♀ July, 1♀ August. FREESTONE—Camp Mexia, 1945: (L) 1 March. GALVESTON—Ellington Field, 1945: (L) 1 April, 2 July; (R) 1♂ May, 2♀ June; (T) 1♀ September. LAMAR—Camp Maxey,

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1945: (L) 2 March, 13 April; (R) 1 ♂ June. TAYLOR—Camp Berkeley, 1945: (L) 2 March. TRAVIS—Bergstrom Field, 1945: (L) 49 April; (T) 6 ♀ June. WEBB—Laredo Army Air Field, 1945: (R) 17 ♀ January. WICHITA—Sheppard Field: (B, 1945) 10 ♀ March, 13 ♀ April, 1 ♀ July; (L, 1945) 3 April, 1 May, 3 July; (R, 1945) 2 ♀ March, 14 ♀ April, 2 ♀ May, 7 ♀ July; (T) 3 ♀ September 1944, 6 ♂ 16 ♀ October 1944, 3 ♂ 4 ♀ March 1945, 6 ♂ 9 ♀ April 1945, 1 ♂ 5 ♀ May 1945, 10 ♂ 8 ♀ June 1945, 2 ♂ 37 ♀ July 1945.

Aedes sollicitans (Walker): BEXAR—Fort Sam Houston: (L, 1944) 5 January, 2 June; (T) 1 ♀ July 1945. COOKE—Camp Howze, 1945: (R) 1 ♀ July. TRAVIS—Bergstrom Field, 1945: (T) 3 ♀ June. WEBB—Laredo Army Air Field: (B, 1945) 7 ♀ March, 22 ♀ April, 9 ♀ May, 3 ♀ June, 1 ♀ July; (L, 1945) 2 February, 72 April; (R) 4 ♀ October 1944, 27 ♀ March 1945. WICHITA—Sheppard Field, 1945: (B) 3 ♀ July; (L) 5 July, 1 August; (R) 1 ♀ April, 29 ♀ July, 2 ♀ August; (T) 2 ♂ April, 12 ♂ 10 ♀ June, 6 ♀ July.

Aedes taeniorhynchus (Wiedemann): BEXAR—Fort Sam Houston: (T) 2 ♂ September 1944, 9 ♂ 4 ♀ October 1944, 1 ♂ November 1944, 5 ♂ September 1945, 3 ♀ October 1945. WEBB—Laredo Army Air Field: (L) 8 April 1945; (R) 2 ♀ October 1944. WICHITA—Sheppard Field, 1945: (R) 5 ♂ 1 ♀ June, 2 ♂ 1 ♀ July; (T) 11 ♂ 2 ♀ June, 1 ♂ 1 ♀ July.

Aedes thelcter Dyar: WEBB—Laredo Army Air Field, 1945: (L) 4 April.

Aedes tormentor Dyar and Knab: LAMAR—Camp Maxey, 1945: (L) 1 July.

Aedes triseriatus (Say): LAMAR—Camp Maxey, 1945: (B) 1 ♀ May; (L) 22 March, 174 April, 403 May, 203 June, 110 July, 96 August; (N) 7 ♂ 1 ♀ May; (R) 2 ♂ April, 1 ♀ May, 1 ♀ July. WICHITA—Sheppard Field, 1945: (R) 1 ♀ July.

Aedes trivittatus (Coquillett): LAMAR—Camp Maxey, 1945: (B) 1 ♀ May. WICHITA—Sheppard Field, 1945: (B)

1 ♀ June; (R) 2 ♀ July; (T) 1 ♂ April.

Aedes vexans (Meigen): COOKE—Camp Howze: (L) 6 May 1944; (R) 2 ♀ July 1945. PARKER—Camp Wolters, 1945: (L) 3 May; (R) 1 ♀ April; (T) 1 ♂ May. WALKER—Huntsville, 1944: (L) 4 May. WEBB—Laredo Army Air Field, 1944: (L) 1 May. WICHITA—Sheppard Field, 1945: (B) 1 ♀ April, 1 ♀ August; (L) 3 April, 440 May, 13 July, 1 August; (R) 1 ♂ 2 ♀ April, 6 ♀ June, 8 ♀ July; (T) 1 ♀ March, 3 ♂ 7 ♀ April, 3 ♂ 11 ♀ May, 43 ♂ 13 ♀ June, 8 ♂ 35 ♀ July.

Anopheles albimanus Wiedemann: WEBB—Laredo Army Air Field, 1944: (R) 1 ♀ October.

Anopheles barberi Coquillett: LAMAR—Camp Maxey, 1945: (L) 6 August; (R) 1 ♀ April. PARKER—Camp Wolters, 1945: (R) 5 ♂ April, 1 ♂ May, 1 ♂ June.

Anopheles crucians Wiedemann: WICHITA—Sheppard Field, 1945: (L) 3 July; (R) 1 ♀ July, 1 ♂ August.

Anopheles pseudopunctipennis Theobald: WICHITA—Sheppard Field, 1945: (R) 1 ♀ September; (T) 1 ♀ May.

Anopheles punctipennis (Say): WICHITA—Sheppard Field: (B) 1 ♂ August 1945; (L) 6 September 1944, 27 May 1945, 42 July 1945; (R, 1945) 3 ♀ April, 2 ♀ May, 53 ♂ 44 ♀ July, 11 ♂ 12 ♀ August, 10 ♂ 9 ♀ September; (T, 1945) 3 ♂ 1 ♀ July.

Anopheles quadrimaculatus Say: WICHITA—Sheppard Field: (B, 1945) 1 ♂ 1 ♀ August; (L, 1945) 2 May, 1 July; (R) 1 ♀ October 1944, 1 ♀ June 1945, 1 ♂ 6 ♀ July 1945, 17 ♂ 29 ♀ August 1945, 8 ♂ 37 ♀ September 1945.

Culex abominator Dyar and Knab: BROWN—Camp Bowie, 1945: (L) 1 August. LAMAR—Camp Maxey, 1945: (L) 2 May.

Culex apicalis Adams: BOWIE—Red River Ordnance, 1945: (L) 2 April, 15 May. COLLIN—Ashburn General Hospital, 1944: (L) 2 May. COOKE—Camp Howze, 1944: (L) 1 April. LAMAR—Camp Maxey, 1945: (B) 1 ♂ May; (L) 41 March, 242 April, 172 May, 59 June,

22 July, 20 August, 2 September; (N) 1♂ May; (R) 2♀ April, 5♂ May, 1♀ August. PARKER—Camp Wolters, 1945: (R) 1♂ June, 1♂ July, 3♂ August.

Culex coronator Dyar and Knab: WEBB—Laredo Army Air Field, 1944: (L) 1 October.

Culex declarator Dyar and Knab: BEXAR—Fort Sam Houston: (T) 1♂ October 1944, 3♂ 1♀ November 1945, 1♂ 1♀ December 1945. CAMERON—Harlingen Army Air Field, 1945: (T) 1♂ August.

Culex interrogator Dyar and Knab: BEXAR—Fort Sam Houston, 1944: (L) 73 September.

Culex nigripalpus Theobald: CORYELL—South Camp Hood, 1944: (L) 1 June. WEBB—Laredo Army Air Field, 1944: (L) 2 December.

Culex peccator Dyar and Knab: * BEXAR—Fort Sam Houston: (T) 2♂ July 1944, 1♂ September 1944, 2♂ October 1944, 2♂ November 1944, 1♂ June 1945, 4♂ August 1945, 4♂ September 1945, 2♂ October 1945, 1♂ November 1945. BOWIE—Red River Ordnance, 1945: (T) 1♂ September. WICHITA—Sheppard Field, 1945: (R) 1♂ August.

Culex restuans Theobald: BOWIE—Red River Ordnance, 1945: (L) 6 March, 138 April, 48 May; (T) 1♀ April, 1♂ 1♀ May, 6♀ September, 14♀ October. BROWN—Camp Bowie, 1945: (L) 7 April; (R) 1♂ 1♀ April, 1♂ 2♀ May, 2♂ 2♀ June, 1♂ July. LAMAR—Camp Maxey, 1945: (B) 1♂ May, 3♂ June; (L) 117 March, 1208 April, 340 May, 176 June, 70 July, 93 August, 18 September; (R) 4♀ March, 18♂ 17♀ April, 23♂ 1♀ May, 2♂ 1♀ June; (T) 1♂ July, 1♂ August. WICHITA—Sheppard Field, 1945: (L) 13 May, 71 July, 3 August; (R) 1♀ April, 2♂ 4♀ May; (T) 1♀ April, 3♀ May, 1♀ June, 1♂ 1♀ July.

Culex salinarius Coquillett: BOWIE—Red River Ordnance, 1945: (L) 5 May; (T) 8♀ April, 9♂ 81♀ 1? May, 1♂ 8♀ June, 28♀ July, 10♀ August, 2♂ 25♀

September, 13♀ October. BROWN—Camp Bowie, 1945: (L) 5 May; (R) 1♀ May; (T) 1♀ March, 1♀ April, 3♂ 2♀ May. COLLIN—Ashburn General Hospital, 1944: (R) 3♀ June. COOKE—Camp Howze, 1944: (L) 1 April. CORYELL—Camp Hood, 1945: (L) 1 May, 2 July. South Camp Hood, 1944: (L) 2 April, 1 June. LAMAR—Camp Maxey, 1945: (B) 3♀ June; (L) 35 April, 72 May, 119 June, 19 July, 47 August, 16 September; (N) 5♀ May; (R) 1♂ 1♀ March, 3♂ 5♀ April, 2♂ May, 1♀ June, 1♂ August, 4♂ 6♀ September; (T) 1♀ July, 5♂ 6♀ August. PARKER—Camp Wolters, 1945: (L) 1 April, 6 May; (R) 5♂ 6♀ April, 5♀ May, 4♂ 4♀ June, 1♂ 1♀ July, 1♂ 2♀ August; (T) 10♂ 3♀ May, 5♂ 10♀ June. WEBB—Laredo Army Air Field: (L) 1 May 1944, 2 March 1945, 1 May 1945. WICHITA—Sheppard Field, 1945: (L) 36 May, 3 June, 5 July; (R) 2♀ April, 1♂ 2♀ May, 1♀ June, 6♂ 1♀ July, 1♂ August, 5♂ 1♀ September; (T) 3♂ 55♀ April, 9♂ 28♀ May, 12♂ 9♀ June, 24♂ 21♀ July.

Culex thriambus Coquillett: BEXAR—Fort Sam Houston: (L) 9 April 1944, 14 June 1944, 46 July 1944, 6 October 1944, 227 November 1944, 1 January 1945, 37 February 1945, 53 March 1945, 117 April 1945, 264 May 1945, 110 June 1945, 86 September 1945, 8 November 1945, 10 December 1945; (T) 1♂ August 1944, 1♂ November 1944, 1♀ January 1945, 1♂ April 1945, 1♂ 1♀ May 1945, 1♀ July 1945, 1♂ August 1945, 1♂ November 1945. San Antonio, 1944: (L) 14 June. BROWN—Camp Bowie, 1945: (R) 1♂ May. PARKER—Camp Wolters, 1945: (R) 1♀ July. WEBB—Laredo Army Air Field: (L) 2 May 1945; (R) 1♀ October 1944.

Deinocerites epitedeus (Knab): * CAMERON—Harlingen Army Air Field, 1945: (T) 1♂ March.

Mansonia perturbans (Walker): GALVESTON—Ellington Field, 1945: (R) 1♀ April, 2♀ August; (T) 2♀ September. PARKER—Camp Wolters, 1945: (T) 1♀ May.

* Previously unrecorded from Texas.

Megarhinus septentrionalis Dyar and Knab: BEXAR—Fort Sam Houston, 1944: (L) 1 May. San Antonio: (L) 6 May 1944, 3 June 1944, 35 April 1945, 1 June 1945. LAMAR—Camp Maxey, 1945: (L) 1 April, 3 May, 1 June, 12 July, 15 August, 10 September.

Orthopodomyia alba Baker: BEXAR—Fort Sam Houston, 1944: (T) 1♂ June. LAMAR—Camp Maxey, 1945: (L) 6 May, 15 June, 1 August.

Orthopodomyia signifera (Coquillett): LAMAR—Camp Maxey, 1945: (L) 12 June, 20 July, 21 August; (R) 1♀ August.

Psorophora discolor (Coquillett): BOWIE—Red River Ordnance, 1945: (R) 1♀ June; (T) 1♀ June, 3♀ July, 5♀ September. BROWN—Camp Bowie, 1945: (L) 1 June; (T) 1♂ 2♀ July, 1♂ August. COLLIN—Ashburn General Hospital, 1944: (R) 1♀ June. COOKE—Camp Howze, 1945: (R) 6♀ July. LAMAR—Camp Maxey, 1945: (L) 19 June, 45 July, 17 August; (R) 1♂ 2♀ June; (T) 2♂ 72♀ July, 8♂ 47♀ August. PARKER—Camp Wolters, 1945: (L) 2 May. TRAVIS—Bergstrom Field, 1945: (T) 1♀ June. WEBB—Laredo Army Air Field, 1945: (L) 2 June. WICHITA—Sheppard Field, 1945: (T) 1♂ 2♀ July, 1♀ August.

Psorophora ferox (Humboldt): WICHITA—Sheppard Field, 1945: (B) 4♀ August; (R) 2♀ July.

Psorophora horrida (Dyar and Knab): LAMAR—Camp Maxey, 1945: (B) 4♀ May, 8♀ August; (L) 1 May; (R) 8♀ May.

Psorophora howardii Coquillett: LAMAR—Camp Maxey, 1945: (L) 4 May, 1 June, 4 July.

Psorophora longipalpis Roth: BEXAR—Fort Sam Houston, 1945: (B) 5♀ April; (L) 13 March.

Psorophora signipennis (Coquillett): BROWN—Camp Bowie, 1945: (L) 24 April, 9 May, 3 June, 14 July; (T) 2♂

7♀ April, 6♀ May, 15♂ 47♀ June, 2♂ 30♀ July, 3♂ 6♀ August. COOKE—Camp Howze, 1945: (L) 1 June; (R) 2♀ July. LAMAR—Camp Maxey, 1945: (L) 1 April, 2 May. PARKER—Camp Wolters, 1945: (B) 1♀ June; (R) 1♂ April. TRAVIS—Bergstrom Field, 1945: (L) 4 October; (T) 2♀ June. WICHITA—Sheppard Field: (B, 1945) 1♀ June; (L, 1945) 1 May, 31 July; (R, 1945) 2♂ 4♀ June, 1♀ July; (T) 1♂ 3♀ October 1944, 1♂ April 1945, 4♀ May 1945, 49♂ 63♀ June 1945, 10♂ 38♀ July 1945, 1♀ August 1945.

Uranotaenia lowii Theobald: LAMAR—Camp Maxey, 1945: (L) 1 August.

Uranotaenia sapphirina (Osten Sacken): LAMAR—Camp Maxey, 1945: (L) 4 July, 8 August; (T) 1♂ July, 1♂ 1♀ August. WICHITA—Sheppard Field, 1944: (T) 1♀ October.

Uranotaenia syntheta Dyar and Shannon: TAYLOR—Camp Barkeley, 1945: (T) 2♀ March. WICHITA—Sheppard Field, 1945: (T) 1♀ June, 1♀ July.

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