

AN ANNOTATED LIST OF THE TABANIDAE OF TENNESSEE¹

JAMEPS T. GOODWIN

*Department of Zoology and Entomology
University of Tennessee, Knoxville, Tenn.*

SUBFAMILY PANGONIINAE

Although new species of Tabanidae continue to be described in North America, the studies of the ecology, the distribution, and the life histories of the existing species is far from complete. This list has been compiled in preparation for further studies in the above areas. It is further hoped that this list will be an aid to others interested in this group of insect pests.

Of the 86 species and subspecies listed, 12 are new state records, seven of which were collected by the author. The remaining records were obtained in personal correspondence with Dr. L. L. Pechuman, Curator, Cornell University, Ithaca, New York, or from collection records of the TVA, Ent. Div. Wilson Dam, Colbert Co., Ala. The remaining species and subspecies listed resulted from reviews of pertinent literature. County distributional records come from both literature citations and personal collections.

The identifications of specimens were made by the author and later confirmed by either Dr. Pechuman or Dr. Richard H. Roberts, Delta Experiment Station, Stoneville, Mississippi. The taxonomic keys used were those of Brennan (1935), Stone (1938), and Philip (1955), with the addition of a few descriptions of species not included in the above publications.

In the following list an asterisk (*) preceding the name of a species indicates a new state record. Following the specific name is a county distributional list in which an asterisk following a county name indicates a new county record. If no distributional data are listed, the species is included from a previously published report which did not include local collection data. The dates of collection for specimens examined by the author and for those from the literature, where noted, follow the distributional list. These dates are in the form of inclusive dates where applicable and should not be taken to indicate a continuous series of collections unless specifically indicated. The author has chosen to follow the subfamily and generic interpretation found in Agriculture Handbook No. 276 (1965). All listings are alphabetically arranged.

SUBFAMILY PANGONIINAE

Chrysops Meigen

- beameri* Brennan: Carroll; 21 Aug.
- brimleyi* Hine: Cocke, Knox*, Monroe*; 5-11 May.
- brunneus* Hine: Lake*, Obion; 14 Jun-21 Aug.
- callidus* Osten Sacken: Benton, Dickson*, Dyer*, Hamblen*, Knox*, Lake*, Stewart*, Weakley*; 14 May-4 Aug.
- carbonarius* Walker: Blount*, Decatur; 14-24 May.
- **cincticornis cincticornis* Walker: Knox*, Monroe*, Stewart*, Weakley*; 21-24 May.
- **cuclux* Whitney: Sevier*; 1-9 May.
- cursim* Whitney: Henry; 22 Jun.

- dacne* Philip: Anderson, Benton, Carroll, Henry; 10 May-14 Jul.
- flavidus flavidus* Wiedemann: Anderson, Benton, Carroll, Hardeman*, Hardin, Henry, Houston, Humphreys, Lake*, Obion, Polk, Stewart*, Weakley*; 3 Jun.-10 Sept.
- flavidus celatus* Pechuman.
- flavidus reicherti* Fairchild: Lake*, Obion; 15 Jun-12 Aug.
- geminatus geminatus* Wiedemann: Blount*, Carroll, Knox*, Polk, Sevier*; 10 Jun-10 Jul.
- geminatus impunctus* Krober: Morgan*, Sevier*; 1-9 Jul.
- macquarti* Philip: Benton, Carter, Fayette*, Hardin, Henry, Houston, Humphreys, Knox*, Obion*, Stewart*, 21 May-21 Jun.
- mitis* Osten Sacken: based on two mis-identified specimens in the Great Smoky Mountains National Park collection and included in Snyder (1957).
- moechus* Osten Sacken: Benton, Fayette*, Henry, Stewart, Sumner, Weakley*; 7 Jun-29 Jul.
- **montanus* Osten Sacken: border collection at Stewart Co., Tenn., and Trigg Co., Ky.
- niger* Macquart: Benton, Blount*, Carroll, Carter, Decatur, Dyer*, Jefferson*, Knox*, McMinn, Monroe, Sevier*, Stewart*, Weakley*; 6 May-7 Jul.
- **nigribimbo* Whitney: Stewart*.
- obsoletus* Wiedemann.
- parvulus* Daecke: Henry; 23 Jun.
- pikei* Whitney: Benton, Fayette*, Lake*, Stewart*, Weakley*; 14 May-7 Jul.
- pudicus* Osten Sacken: Benton; 18 Jun-7 Jul.
- sackeni* Hine.
- **separatus* Hine: Morgan*, Stewart*; 29 Apr-21 May.
- striatus* Osten Sacken: Benton, Campbell*, Fayette*, Henry, Knox*, Sevier*; 6 Jul-26 Aug.
- univittatus* Macquart: Benton, Carroll, Henry, Knox*, Stewart*; 3 May-9 Sept.
- vittatus* Wiedemann: Benton, Hamilton, Henry, Knox*, McMinn, Stewart*; 2 Jun-5 Aug.
- Goniops* Aldrich
- **chrysocoma* (Osten Sacken): Sevier*; 1-7 Jul.
- Neochrysops* Walton
- globosus* Walton: Henry; 9 Jun.
- Silvius* Meigen
- **quadrivittatus* (Say); Lake*; 8 Jun.
- Stonemyia* Brennan
- **isabellina* (Wiedemann): Morgan*; 9 Jun.
- rasa* (Loew).
- tranquilla tranquilla* (Osten Sacken): Sevier*; ? Aug.
- tranquilla fera* (Williston).

SUBFAMILY TABANINAE

- Chlorotabanus* Lutz
- crepuscularis* (Bequaert): Knox*, Morgan; Jun 1-Jul 25.
- Diachlorus* Osten Sacken
- **ferrugatus* (Fabricius): Henry*; 23 Jun.
- Hamatabanus* Philip
- carolinensis* (Macquart): Benton*, Jefferson*, Knox*, Morgan, Sevier*, Stewart*; 10 May-19 Jun.
- Hybomitra* Enderlein
- cincta* (Fabricius): Monroe, Polk, Sevier*; 25 Jun-10 Jul.
- difficilis* (Wiedemann): Anderson, Carter, Claiborne, Morgan, Sevier*, Stewart*, Weakley*; 24 May-23 Jun.
- lasciophthalma* (Macquart): Knox*, Morgan, Obion, Sevier*, Stewart*, Sullivan, Weakley*; 12 May-18 Jun.
- trispila sodalis* (Williston): Monroe; 25 Jun. (reported as *Tabanus trispilus* Wied. by Snow, *et al*, 1957—mis-identified).
- Leucotabanus* Lutz
- annulatus* (Say): Benton, Blount, Claiborne, Humphreys, Knox, Morgan, Polk, Sevier*, Stewart*; 1 Jun-27 Aug.
- Tabanus* Linnaeus
- abdominalis* Fabricius: Dyer*, Morgan, Sevier*, Shelby*, Stewart*; 22 Jul-12 Aug.

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americanus Forster: Benton, Dyer^o, Haywood^o, Morgan, Sevier^o; 18 Jun-29 Jul.
atratus Fabricius: Anderson, Benton, Cocke, Decatur^o, Dyer^o, Gibson^o, Jefferson^o, Obion^o, Stewart^o, Weakley^o; 6 Jul-15 Sept.
calens Linnaeus: Benton, Carroll, Decatur, Dyer^o, Henry, Morgan, Sevier^o, Stewart^o, Weakley^o; 12 Jul-11 Sept.
cayensis Fairchild: (reported in Philip, 1947; probably in error due to incorrect local label, as otherwise known only from southern Florida).
cymatophorus Osten Sacken: Decatur, Dyer^o, Stewart^o; 30 Jul-20 Aug.
equalis Hine: Benton, Dyer^o, Haywood^o, Humphreys, Obion, Stewart^o, Weakley^o; 18 Jun-7 Jul.
fairchildi Stone: Knox^o, Morgan, Sevier^o, 1 Jun-4 Jul.
fulvulus Wiedemann: Benton, Cumberland^o, Houston, Knox^o, McMinn, Morgan, Obion, Polk, Sevier^o, Stewart^o; 10 May-25 Jul.
gladiator Stone: Morgan; 28 Jul-5 Sept.
fuscicostatus Hine.
lineola Fabricius: Anderson, Benton, Cocke, Decatur, Dyer^o, Fayette^o, Henry, Houston, Humphreys, Lake^o, Morgan, Obion, Perry, Stewart^o, Weakley^o; 28 May-10 Sept. (series).
longiusculus Hine: Benton, Carroll; 21-23 Aug.
longus Osten Sacken: Morgan, Sevier^o; 17 Jun-1 Jul.
marginalis Fabricius: Sevier^o; 1 Aug.
melanocerus Wiedemann: Benton, Decatur, Henry, Morgan, Polk, Stewart^o; 27 May-15 Aug.
moderator Stone: Morgan; 17-20 May.
molestus molestus Say: Henry, Knox^o, Monroe, Morgan, Obion, Sevier^o, Stewart^o, Weakley^o; 10 Jun-8 Jul.
molestus mixis Philip: Benton, Henry, Morgan, Polk; 27 May-5 Aug.
mularis Stone: Benton, Decatur, Dyer^o, Fayette^o, Gibson^o, Hamilton, Henry, Stewart^o, Weakley^o; 16 Jun-22 Aug. (series).
nigrescens atripennis Stone: Dickson^o, Stewart^o; 17-19 Jun.
nigrescens nigrescens Palisot de Beauvois: Morgan^o, Stewart^o; 18 Jul.
nigripes Wiedemann: Morgan, Sevier^o, Unicoi; 7-27 Jul.
pallidescens Philip: Benton, Knox^o, Polk, Stewart^o; 3 Jun-6 Jul.
petiolatus Hine: Benton; 22 Jun-26 Aug.
proximus Walker: Decatur, Dyer^o, Shelby^o, Stewart^o, Weakley^o; 22 Jul-20 Aug.
pumilus Macquart: Anderson, Decatur, Henry, Knox^o, Morgan; 25 May-23 Jul.
quienquevittatus Wiedemann: Benton, Decatur, Dyer^o, Fayette^o, Gibson^o, Haywood^o, Houston, Humphreys, Jefferson^o, Madison^o, Stewart^o, Weakley^o; 14 Jun-25 Aug.
reinwardtii Wiedemann: Carter, Morgan, Stewart^o; 30 Jun-23 Jul.
sackeni Fairchild: Benton, Carter, Cumberland^o, Morgan, Stewart^o; 5 Jul-24 Aug.
sagax Osten Sacken: Cumberland^o, Morgan, Stewart^o; 28 May-25 Jul.
similis Macquart: Anderson, Dyer^o, Morgan, Weakley^o; 13 Jun-15 Aug.
sparus sparus Whitney.
sparus milleri Whitney: Anderson, Benton, Blount^o, Decatur, Fayette^o, Henry, Houston, Marion, Monroe^o, Morgan, Polk, Stewart^o, Weakley^o; 23 May-3 Aug.
sublongus Stone: Carroll^o, Sevier^o; 11 Aug.
subsimilis subsimilis Philip: Decatur, Dyer^o, Obion, Stewart^o; 18 Jun-23 Aug.
sulcifrons Macquart: Anderson, Benton, Blount^o, Claiborne, Cocke, Decatur, Dyer^o, Fayette^o, Gibson^o, Hardin, Hawkins, Haywood^o, Henry, Houston, Jefferson^o, Knox^o, Madison^o, Monroe, Morgan, Perry, Polk, Sevier^o, Shelby^o, Stewart^o, Sullivan, Unicoi, Weakley^o; 14 Jun-24 Sept.
superjumentarius Whitney: Knox^o, Morgan, Sevier^o, Weakley^o; 29 May-8 Jul.
trimaculatus Palisot de Beauvois: Anderson, Benton, Decatur, Henry, Jefferson^o, Knox^o, McMinn, Shelby^o, Stewart^o; 22 May-23 Jul.

turbidus Wiedemann: Decatur, Henry, Humphreys, Obion^o, Weakley^o; 25 May-27 Jun.
venustus Osten Sacken: Decatur, Dyer^o, Fayette^o, Weakley^o; 5 Jun-12 Jul.
zythicolor Philip.

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ADDENDUM

Since the above information was submitted, the following additional data have been obtained:

- Tabanus* Linnaeus
aranti Hays: Knox^o, from reared larva.
stlygius Say: Jefferson^o.
Atylotus Osten Sacken
thoracicus (Hine): Knox^o, from reared larva.