

ADDITIONAL MOSQUITO DISTRIBUTION RECORDS FOR SOUTH CAROLINA

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"A Resume of the Mosquitoes of South Carolina" by Weathersbee and Arnold (1947) in which special consideration was given to the geographic distribution of the several species of mosquitoes occurring within the state, includes distribution records through the calendar year 1945. A new species which was listed in that paper as *Wyeomyia* sp. n. sp. has been described by Dodge (1947) as *Wyeomyia haynei*.

SPECIES	COUNTIES																																
	AREBETLE	Aiken	ALLendale	ANDerson	BAMBERG	BEaufort	Blair	BOwling Green	CALhoun	CHARleston	CHickory	COLUMBIA	DARlington	DEKALB	FLOYD	FRANKLIN	GREENVILLE	HARTWOOD	HAMILTON	JEFFERSON	KING	LAWRENCE	LEITCHFIELD	LINCOLN	MARLBOROUGH	MUSKOGEE	NETTER	OCEAN	PERMAMOUNT	ROCKINGHAM	SPARTANBURGH	WAGNER	YAMOUNA
ANOPHELES																																	
<i>A. ATROPIS</i>																																	
<i>A. BARRETI</i>																																	
<i>A. BRADLEYI</i>																																	
<i>A. CRUGANS</i>																																	
<i>A. KESINGHAMUS</i>																																	
<i>A. PENICILLIFORMIS</i>																																	
<i>A. QUADRIMACULATUS</i>																																	
<i>A. WALKERI</i>																																	
Aedes																																	
<i>A. Aegypti</i>																																	
<i>A. ATLANTICUS</i>																																	
<i>A. CANADENSIS</i>																																	
<i>A. CINERUS</i>																																	
<i>A. DUPREI</i>																																	
<i>A. FULVUS</i>																																	
<i>A. GROSSBECKI</i>																																	
<i>A. INFORMATUS</i>																																	
<i>A. MICHIGANAE</i>																																	
<i>A. SOLICITANS</i>																																	
<i>A. STICTICUS</i>																																	
<i>A. TAENIORHYNCHUS</i>																																	
<i>A. THIBAUDI</i>																																	
<i>A. TOBIASANTOP</i>																																	
<i>A. TRISERTATUS</i>																																	
<i>A. TRIVITTATUS</i>																																	
<i>A. VEANSI</i>																																	
<i>A. APICALIS</i>																																	
CULEX																																	
<i>C. ERRATICUS</i>																																	
<i>C. NIGRIPALPUS</i>																																	
<i>C. PECCATOR</i>																																	
<i>C. PILEATUS</i>																																	
<i>C. PIPIENS</i>																																	
<i>C. QUINQUEFASCATUS</i>																																	
<i>C. RESTUANS</i>																																	
<i>C. SALINARIUS</i>																																	
<i>C. TARSALIS</i>																																	
CULICETA																																	
<i>C. INORNATA</i>																																	
<i>C. MELANURA</i>																																	
MANSIONIA																																	
<i>M. PERTUSANS</i>																																	
MEGALINUS																																	
<i>M. RUTILUS</i>																																	
<i>M. SEPTENTRIONALIS</i>																																	
ORTHOPOMYIA																																	
<i>O. ALBA</i>																																	
<i>O. SENNERA</i>																																	
PSOROPHORA																																	
<i>P. CILICATA</i>																																	
<i>P. COMPNIUS</i>																																	
<i>P. CYANESCENS</i>																																	
<i>P. OSCOLOR</i>																																	
<i>P. FERDIX</i>																																	
<i>P. HORRIDA</i>																																	
<i>P. HOWARDII</i>																																	
<i>P. HERPES</i>																																	
SRANOTAENA																																	
<i>S. LAPHYRINA</i>																																	
<i>S. LOWI</i>																																	
WYEOMYIA																																	
<i>W. SIMPSONI</i>																																	
<i>W. HAYNEI</i>																																	

LESCHO
P- PROBABLE
●- PREVIOUS POSITIVE
○- ADDITIONAL POSITIVE

Its occurrence has been reported by Weathersbee and Arnold (1948). Observations conducted since 1945 have added additional distribution records which are included in this report. In figure 1, distribution records through 1945 are shown as filled circles, whereas those for the years 1946, 1947, and 1948 are shown as open circles. Other than the new species described by Dodge (1947) no additional species

have been added to the fifty-three previously recognized. However, one hundred and twenty-two new county records involving forty-two different species, were added during 1946-1948, and are herein listed.

Genus ANOPHELES Meigen

Anopheles barberi Coq.

Marion Co., J. P. Cooper's, 4/29/48, D. L. Cox, det. F. T. Arnold, Jr.

Anopheles bradleyi King

Barnwell Co., Swamp Crossing Highway 3, 7/15/46, H. C. MacFarlane, det. F. T. Arnold, Jr. Dillon Co., south Station No. 2, 4/8/48, D. L. Cox, det. F. T. Arnold, Jr.

Anopheles georgianus King

Barnwell Co., Snelling, 1/23/46, Smith Worley, det. O. L. Cartwright. Calhoun Co., Ft. Motte, 2/6/46, W. M. Padgett, det. O. L. Cartwright. Clarendon Co., Highway 15, north of Summerton, 3/4/46, G. E. Geddings, det. O. L. Cartwright. Marion Co., Little Bethel Church, 3/4/46, D. L. Cox, det. O. L. Cartwright.

Anopheles punctipennis (Say)

Allendale Co., Allendale, 2/12/46, Smith Worley, det. O. L. Cartwright. Bamberg Co., Ehrhardt, 2/5/46, O. L. Cartwright, det. F. T. Arnold, Jr. Dillon Co., McDuffie Cemetery, 2/20/46, D. L. Cox, det. F. T. Arnold, Jr. Edgefield Co., Edgefield, 5/13/48, E. R. Wingard, det. M. M. Askey, Jr.

Anopheles quadrimaculatus Say

Edgefield Co., Edgefield, 5/13/48, E. R. Wingard, det. M. M. Askey, Jr.

Genus AEDES Meigen

Aedes aegypti (L.)

Allendale Co., Allendale Highway No. 307 West of Intersection 508, Culvert, 8/7/46, A. E. Jeter, det. F. T. Arnold, Jr. Bamberg Co., Intersection Highway 334 and 359, 7/30/46, H. C. MacFarlane, det. F. T. Arnold, Jr. Barnwell Co., Highway 64 West of Barnwell, 7/15/46, A. E. Jeter, det. F. T. Arnold, Jr. Dorchester Co., Highway 2, 8/15/46, E. R. Wingard, det. F. T. Arnold, Jr. Marion Co., 9/24/46, D. L. Cox, det. F. T. Arnold, Jr.

Aedes atlanticus (D. and K.)

Barnwell Co., Blackville, 1/28/46, Smith Worley, det. O. L. Cartwright.

Aedes canadensis (Theob.)

Allendale Co., Section "G" Spray Map, 3/4/46, Smith Worley, det. O. L. Cartwright. Bamberg Co., Highway 78 House 430, 2/5/46, Smith Worley, det. O. L. Cartwright. Barnwell Co., Hartzog's Mill Pond, 1/29/46, Smith Worley, det. O. L. Cartwright. Beaufort Co., ¼ mile south Combahee Bridge, 2/15/46, Harry Dandridge, det. O. L. Cartwright. Calhoun Co., Highway 21 near county line, 3/14/46, A. E. Jeter, det. O. L. Cartwright. Colleton Co., Highway 303, 1 mile south of Walterboro, 1/22/46, Harry Dandridge, det. O. L. Cartwright. Dillon Co., Lake View, 2/15/46, D. L. Cox, det. O. L. Cartwright. Hampton Co., Combahee Bridge, 2/11/46, Harry Dandridge, det. O. L. Cartwright.

Aedes cinereus Meig.

Horry Co., Myrtle Beach, 4/27/48, D. L. Cox, det. F. T. Arnold, Jr.

Aedes dupreii (Coq.)

Dillon Co., Buck Swamp, 8/15/46, D. L. Cox, det. F. T. Arnold, Jr.

Aedes fulvus pallens Ross

Calhoun Co., Half-way Swamp, 8/18/47, F. T. Arnold, Jr., det. F. T. Arnold, Jr.

Aedes mitchellae (Dyar)

Allendale Co., Allendale, 1/30/46, Smith Worley, det. O. L. Cartwright.
Calhoun Co., Lone Star, 2/6/46, W. M. Padgett, det. O. L. Cartwright.
Hampton Co., 4 miles south Varnville, 3/12/46, Harry Dandridge, det. O. L. Cartwright.
Jasper Co., .8 mile west Pocotaligo, 5/16/46, Harry Dandridge, det. O. L. Cartwright.

Aedes sollicitans (Walk)

Berkeley Co., House No. M 35, 8/22/46, E. R. Wingard, det. F. T. Arnold, Jr.
Dorchester Co., Ridgeville, 1/25/44, E. R. Wingard, det. O. L. Cartwright.

Aedes taeniorhynchus (Weid.)

Dorchester Co., Highway 78 House 409 E, 8/15/46, E. R. Wingard, det. F. T. Arnold, Jr.

Aedes thibaulti (D. and K.)

Darlington Co., Savannah Grove Church, 3/18/46, H. B. MacFarlane, det. O. L. Cartwright.
Florence Co., Highway 301, 3/11/46, H. B. MacFarlane, det. O. L. Cartwright.
Williamsburg Co., south of Kingstree, 4/30/46, G. E. Geddings, det. O. L. Cartwright.

Aedes tormentor (D. and K.)

Sumter Co., Black River east of Sumter, 4/25/46, G. E. Geddings, det. O. L. Cartwright.

Aedes triseriatus (Say)

Barnwell Co., Highway 204 northeast of Blackville, 9/3/46, A. E. Jeter, det. F. T. Arnold, Jr.
Clarendon Co., Black River Bridge near Manning, 3/21/46, G. E. Geddings, det. O. L. Cartwright.

Aedes trivittatus (Coq.)

Charleston Co., Old Meeting Road at railroad crossing, 5/8/46, E. R. Wingard, det. O. L. Cartwright.

Aedes vexans (Meig.)

Bamberg Co., House No. L 170, 7/16/46, H. C. MacFarlane, det. F. T. Arnold, Jr.
Calhoun Co., Highway 21, 5/17/46, A. E. Jeter, det. F. T. Arnold, Jr.
Dillon Co., Pee Dee Swamp, 8/15/46, D. L. Cox, det. F. T. Arnold, Jr.

Genus CULEX Linnaeus

Culex apicalis Adams

Allendale Co., Allendale, 2/12/46, Smith Worley, det. O. L. Cartwright.
Edgefield Co., Eubank's Pond, 5/21/46, A. R. Taber, det. A. A. Weathersbee.
Jasper Co., Ridgeland, 2/11/46, Harry Dandridge, det. O. L. Cartwright.
McCormick Co., 7/23/48, E. R. Wingard, det. M. M. Askey, Jr.

Culex erraticus (D. and K.)

Allendale Co., Sycamore, 8/2/48, O. E. Kearse, det. M. M. Askey, Jr.
Bamberg Co., Midway, 7/2/48, O. E. Kearse, det. M. M. Askey, Jr.
Dillon Co., Station No. 5, 8/25/48, D. L. Cox, det. M. M. Askey, Jr.
Dorchester Co., House No. 407 E, 8/15/46, E. R. Wingard, det. F. T. Arnold, Jr.
Edgefield Co., Edgefield, 8/5/48, E. R. Wingard, det. M. M. Askey, Jr.

Culex nigripalpus Theob.

Calhoun Co., House E 28, 7/22/46, W. M. Padgett, det. F. T. Arnold, Jr.
 Dillon Co., county line (300 yds.), 8/15/46, D. L. Cox, det. F. T. Arnold, Jr.
 Marion Co., Kirby's 8/14/46, D. L. Cox, det. F. T. Arnold, Jr.

Culex peccator (D. and K.)

Dillon Co., Ashpole Swamp, 5/9/46, D. L. Cox, det. O. L. Cartwright.
 Edgefield Co., Salter's Pond, 5/21/46, A. R. Taber, det. A. A. Weathersbee.
 Florence Co., Darlington Hwy., 5/30/46, H. B. MacFarlane, det. F. T. Arnold, Jr.
 Lee Co., Bishopville, 7/6/48, R. L. Blackmon, det. M. M. Askey, Jr.

Culex pilosus (D. and K.)

Allendale Co., Hwy. 73 west of Sycamore, 8/28/46, A. E. Jeter, det. F. T. Arnold, Jr.
 Dorchester Co., Slands Branch, 6/4/48, J. P. Dupre, det. F. T. Arnold, Jr.
 Jasper Co., Ridgeland, 8/12/47, F. T. Arnold, Jr., det. F. T. Arnold, Jr.
 Marion Co., Hardy's, 8/27/46, D. L. Cox, det. F. T. Arnold, Jr.

Culex quinquefasciatus Say

Bamberg Co., Highway 517, 8/6/46, H. C. MacFarlane, det. F. T. Arnold, Jr.
 Edgefield Co., Edgefield, 8/26/48, E. R. Wingard, det. M. M. Askey, Jr.

Culex restuans Theob.

Allendale Co., East of New Hope Church, 1/25/46, Smith Worley, det. O. L. Cartwright.
 Calhoun Co., Highway 691, 5/24/46, A. E. Jeter, det. F. T. Arnold, Jr.
 Edgefield Co., Robert Timmerman's residence, 6/20/46, A. R. Taber, det. F. T. Arnold, Jr.
 Jasper Co., Coosawhatchie, 3/21/46, Harry Dandridge, det. O. L. Cartwright.

Culex salinarius Coq.

Allendale Co., Allendale, 5/8/46, Smith Worley, det. O. L. Cartwright.
 Calhoun Co., Elloree, 4/12/48, J. P. Hopkins, det. F. T. Arnold, Jr.
 Edgefield Co., Thurmond's Pond, 8/12/48, E. R. Wingard, det. M. M. Askey, Jr.
 Marion Co., Brittons Neck, 3/19/46, D. L. Cox, det. O. L. Cartwright.

Culex tarsalis Coq.

Barnwell Co., House E 20, 4 miles north of Barnwell Highway 3, 7/15/46, H. C. MacFarlane, det. F. T. Arnold, Jr.

Genus CULISETA Felt

Culiseta inornata (Williston)

Florence Co., Chain Gang Camp, 7/6/46, H. B. MacFarlane, det. F. T. Arnold, Jr.

Culiseta melanura (Coq.)

Bamberg Co., Highway 33, Church, 3/6/46, Smith Worley, det. O. L. Cartwright.
 Barnwell Co., Fuller Park, Barnwell, 3/26/46, Smith Worley, det. O. L. Cartwright.
 Dillon Co., Highway 57 near county line, 2/18/46, D. L. Cox, det. O. L. Cartwright.
 Marlboro Co., Drake's Pond, 2/26/46, D. L. Cox, det. O. L. Cartwright.

Genus MANSONIA Blanchard

Mansonia perturbans (Walk)

Bamberg Co., Public Pond, 5/6/46, Smith Worley, det. O. L. Cartwright.
 Calhoun Co., Highway 21, 6/28/46, A. E. Jeter, det. F. T. Arnold, Jr.
 Dorchester Co., Carter's Pond, 4/15/47, F. T. Arnold, Jr., det. F. T. Arnold, Jr.

Genus MEGARHINUS Robineau-Desvoidy

Megarhinus septentrionalis (D. and K.)

Dorchester Co., Middleton Gardens, 4/12/46, O. L. Cartwright, det. O. L. Cartwright.

Genus ORTHOPODOMYIA Theobald

Orthopodomyia alba Baker

Orangeburg Co., Eutaw Springs, 2/13/46, W. M. Padgett, det. O. L. Cartwright.

Orthopodomyia signifera (Coq.)

Colleton Co., Salkehatchie Bridge Highway 633, 2/3/46, Harry Dandridge, det. O. L. Cartwright. Dorchester Co., 4/12/46, O. L. Cartwright, det. O. L. Cartwright.

Genus PSOROPHORA Robineau-Desvoidy

Psorophora ciliata (F.)

Bamberg Co., Highway 68, 9/4/46, H. C. MacFarlane, det. F. T. Arnold, Jr.

Psorophora confinis (L-Arr.)

Allendale Co., Fairfax, 7/12/48, O. E. Kearse, det. M. M. Askey, Jr. Dorchester Co., 3 miles from Summerville, 3/26/46, E. R. Wingard, det. O. L. Cartwright. Hampton Co., Miley, 4/6/48, O. E. Kearse, det. F. T. Arnold, Jr. Jasper Co., .8 mile west Pocotaligo, 5/16/46, Harry Dandridge, det. O. L. Cartwright. McCormick Co., Long Cane Creek, 6/15/48, E. R. Wingard, det. M. M. Askey, Jr.

Psorophora ferox (Humb.)

Calhoun Co., Little Bever Creek, 5/23/46, A. E. Jeter, det. F. T. Arnold, Jr. Clarendon Co., Bell Branch, 5/10/46, G. E. Geddings, det. O. L. Cartwright. Jasper Co., Coosawhatchie, 3/21/46, Harry Dandridge, det. O. L. Cartwright.

Psorophora horrida (D. and K.)

Calhoun Co., Highway 21, 5/17/46, A. E. Jeter, det. F. T. Arnold, Jr. Clarendon Co., Branch south of Manning, 5/22/46, G. E. Geddings, det. F. T. Arnold, Jr. Lexington Co., Lake Murray, 5/13/48, E. R. Wingard, det. M. M. Askey, Jr.

Psorophora howardii (Coq.)

Clarendon Co., Branch south of Manning, 5/22/46, G. E. Geddings, det. F. T. Arnold, Jr. Marlboro Co., Bristol, 4/29/46, D. L. Cox, det. O. L. Cartwright. Richland Co., Hwy 76 north of Gadsden, 5/9/46, A. E. Jeter, det. F. T. Arnold, Jr.

Psorophora variipes (Coq.)

Charleston Co., 3 miles north Mt. Pleasant, 5/6/46, E. B. Sanders, det. F. T. Arnold, Jr.

Genus URANOTAENIA Lynch-Arribalzaga

Uranotaenia sapphirina Theob.

Allendale Co., Allendale, 5/8/46, Smith Worley, det. O. L. Cartwright. Bamberg Co., Hunter's Chapel Road, 5/23/46, Smith Worley, det. O. L. Cartwright. Dillon Co., Lake View, 5/9/46, D. L. Cox, det. O. L. Cartwright. Dorchester Co., Polks Swamp Hwy. 78, 5/2/46, W. M. Padgett, det. O. L. Cartwright. Hampton Co., 2.4 miles south Early Branch Hwy. 367, 5/22/46, Harry Dandridge, det. O. L. Cartwright. Jasper Co., 7.2 miles north Beaufort, 5/23/46, Harry Dandridge, det. F. T. Arnold, Jr. McCormick Co., 7/23/48, E. R. Wingard, det. M. M. Askey, Jr. Williamsburg Co., west of Kingstree on Hwy. 521, 5/24/46, G. E. Geddings, det. F. T. Arnold, Jr.

Uranotaenia lowii (O.S.)

Allendale Co., Barton, 6/14/48, O. E. Kearse, det. M. M. Askey, Jr. Bamberg Co., Oak Grove, 6/15/48, O. E. Kearse, det. M. M. Askey, Jr. Barnwell Co., Snelling, 6/9/48, O. E. Kearse, det. M. M. Askey, Jr. Colleton Co., Cottageville, 4/30/48, Harry Dandridge, det. F. T. Arnold, Jr. Darlington Co., ½ mile south of Highway 15, 5/22/46, H. B. MacFarlane, det. F. T. Arnold, Jr. Dillon Co., Intersection S. C. Hwy. 9 and 95, 5/20/48, D. L. Cox, F. T. Arnold, Jr., det. F. T. Arnold, Jr., and M. M. Askey, Jr. Hampton Co., Miley, 5/20/48, O. E. Kearse, det. M. M. Askey, Jr. Jasper Co., 8 miles south Ridgeland, 5/23/46, Harry Dandridge, det. F. T. Arnold, Jr. Kershaw Co., Camden, 6/5/48, R. L. Blackmon, det. M. M. Askey, Jr. Marion Co., Old Nichols Hwy., 5/21/46, D. L. Cox, det. F. T. Arnold, Jr. Marlboro Co., Penderbow, 7/18/46, D. L. Cox, det. F. T. Arnold, Jr. Orangeburg Co., Bowman, 4/20/48, J. P. Hopkins, det. F. T. Arnold, Jr. Williamsburg Co., west of Kingstree on Hwy. 521, 5/24/46, G. E. Geddings, det. F. T. Arnold, Jr.

REFERENCES

- Weathersbee, Albert A., and F. T. Arnold, Jr. 1947. A resume of the mosquitoes of South Carolina. *Jour. Tenn. Acad. Sci.*, 22(3) : 210.
- Dodge, Harold R. 1947. A new species of *Wyeomyia* from the pitcher plant (Diptera, Culicidae). *Proc. Ent. Soc. Wash.*, 49(5) : 117.
- Weathersbee, Albert A., and F. T. Arnold, Jr. 1948. A revision of the genus *Wyeomyia* Theobald (Diptera, Culicidae) in South Carolina. *Jour. Tenn. Acad. Sci.*, 23(3) : 249.

THE OCCURRENCE OF THE FLATHEAD CHUB,
PLATYGOBIO GRACILIS, IN TENNESSEE¹

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For the last several years, during the Easter vacation, zoology classes from the University of Illinois have made ecological studies of the fishes of the Reelfoot Lake region. On April 7, 1950 three small specimens of the flathead chub, *Platygobio gracilis*, were taken in a minnow seine from the Mississippi River at Cates, five miles north of Tiptonville in Lake County, Tennessee.

This is the typical habitat of this minnow which is found in the channels of the larger rivers and in particular in the Missouri and its tributaries as far north as Canada. It has been reported in the Ohio River at Cairo, but we have not found any previous report of it in Tennessee waters.²

¹Contribution from the University of Illinois Museum of Natural History and the Department of Zoology.

²Since submitting this paper we have learned that J. D. Black collected five small specimens of this species from the Arkansas side of the Mississippi River between Hickman and Barfield in Mississippi County, Arkansas.