

ADDITIONAL NOTES ON THE BIOLOGY AND
DISTRIBUTION OF BUPRESTIDAE (COLEOPTERA) IN
NORTH AMERICA, PART III¹

G. H. NELSON

College of Osteopathic Medicine of the Pacific,
Pomona, CA 91766, U.S.A.

AND

T. C. MACRAE²

Missouri Department of Agriculture, Plant Industries Division,
Jefferson City, MO 65102, U.S.A.

ABSTRACT

New biological and/or distributional data are given for 67 species of Buprestidae in the following genera: *Acmaeodera*, *Acmaeoderopsis*, *Actenodes*, *Agrilus*, *Anthaxia*, *Brachys*, *Buprestis*, *Chalcophora*, *Chrysobothris*, *Cypriacis*, *Descarpentriesina*, *Dicerca*, *Mastogenius*, *Pachyschelus*, *Paragrillus*, *Polycesta*, *Ptosima*, *Taphrocerus*, and *Texania*.

Biological and distributional data for 67 species of Buprestidae are presented in order to be available for the U.S. Department of Agriculture Catalog of Coleoptera (in prep.). Genera and species are arranged alphabetically for easy reference. The term *new larval host* refers to material that was "reared" or "cut" from the plant, or in one case the female was ovipositing in the plant, and *new adult host* refers to material that was collected on the plant. Abbreviations of collections [brackets] are as listed in Arnett and Samuelson (1986), except for T. C. MacRae [TCMC] and J. R. Heitzman [JRHC].

Acmaeodera gibbula LeConte. ARIZONA: Yuma Co., 10 mi N Yuma, Mistry Lake, 1 mi NE Headgate, emerged ex small limbs *Salix gooddingii*, 7, 13-VII-85, wood collected, 8-IV-84, G. H. Nelson (recorded ex *Salix* sp. by Westcott *et al.* 1979). New larval host record.

Acmaeodera mixta LeConte. KANSAS: Gray Co., 23-VI-87, sweeping rangeland; Kiowa Co., 13, 16-VI-87 on flowers *Ratibida columnifera*, all G. A. Salisbury [TCMC]. New state record.

Acmaeodera tubulus (Fabricius). DELAWARE: New Castle Co., Blackbird, 12-V-88, J. Huether, on flowers *Cornus florida*. FLORIDA: Franklin Co., Carrabelle, 8-IV-87, on flowers *Conradina canescens* [CUIC]. New state and adult host records.

Acmaeoderopsis junki (Théry). CALIFORNIA: San Bernardino Co., 25 mi W Baker, Hwy. 15, emerged ex *Prosopis glandulosa* var. *torreyana*, 3-VIII-87, wood collected, 2-VIII-84, G. H. Nelson. New Larval host record.

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² Mailing address: State Department of Agriculture, 10419 Conway Road, Frontenac, MO 63131, U.S.A.

***Actenodes acornis* (Say).** MISSOURI: Ste. Genevieve Co., Hawn State Park, emerged ex dead 1" diameter limb, *Carya glabra*, 5-22-VI-86, wood collected, 25-V-85 [TCMC & GHNC]; St. Louis Co., Ballwin, emerged ex dead *Acer saccharum*, 21-VI-88, wood collected, IX-86, all T. C. MacRae. New larval host records. WEST VIRGINIA: Kanawha Co., Guthrie, 7-VI-87, M. C. Thomas [PPCD]. New state record.

***Agrilus abductus* Horn.** LOUISIANA: Tangipahoa Parrish, 4 mi N Robert, 25-IV-81, E. G. Riley. OKLAHOMA: Latimer Co., III-V-86, K. Stephan [& GHNC]; Muskogee Co., Arkansas River, W of Webbers Falls, 15-V-79, W. D. Shepard, beach drift [& RLWE]. New state records.

***Agrilus acutipennis* Mannerheim.** MISSOURI: Montgomery Co., Graham Cave State Park., 21-V-86, T. C. MacRae, on *Amelanchier arborea*. New adult host record.

***Agrilus arcuatus fulgens* LeConte.** MICHIGAN: Ingham Co., Okemos, 28, 30-VI-81, S. G. Wellso [TCMC]. New state record.

***Agrilus arcuatus torquatus* LeConte.** OKLAHOMA: Latimer Co., VI-84, K. Stephan. New state record.

***Agrilus audax* Horn.** OKLAHOMA: Latimer Co., III-V-86, K. Stephan on *Quercus marilandica* [& GHNC]. New state and adult host records.

***Agrilus aurichalceus aurichalceus* Redtenbacher.** INDIANA: Elkhart Co., Elkhart, 25-29-V-85, W. B. Warner, [TCMC]. MAINE: York, 9-VII-37, B. G. Markos [DENH]. NEBRASKA: Cherry Co., Valentine Nat. Wildlife Ref., 9-VI-82 [CUIC]. Dawes Co., 29-VI-74, W. T. Morgan [Chadron St. College]; Scottsbluff, 19-VI-65, F. Snocker [GHNC]. WEST VIRGINIA: Fayette Co., near Octa Milepost 64-E, J. W. Amrine, Jr., lab reared from canes of *Rosa multiflora* [WVUC, GHNC]. New state records.

***Agrilus champlaini* Frost.** MISSOURI: Ste. Genevieve Co., Hawn State Park, along Pickle Creek, 22-I-89, cut from gall on live twig, *Ostrya virginiana*, T. C. MacRae. New state record.

***Agrilus concinnus* Horn.** KANSAS: Linn Co., 4 km N Pleasanton, 2-VIII-84, B. Danforth, R. Brooks, C. Michener [SEMC, TCMC, & GHNC]. New state record.

***Agrilus crataegi* Frost.** KANSAS: Crawford Co., 23-V-88, G. A. Salsbury, beating *Crataegus* [TCMC]. NEBRASKA: Jefferson Co., Fairbury, 21-VI-79, W. F. Rapp [CDAE]. OKLAHOMA: Latimer Co., V-84, VI-85, K. Stephan [& GHNC]. New state records.

***Agrilus crinicornis* Horn.** KANSAS: Cherokee Co., 12-V-88, G. A. Salsbury, sweeping undergrowth [TCMC]. New state record.

***Agrilus defectus* LeConte.** MISSOURI: Jefferson Co., Victoria Glades Natural Area, 22-V-86, T. C. MacRae, on *Carya tomentosa* [& GHNC]. New adult host record. WEST VIRGINIA: Kanawha Co., Camp Virgil, 9-V-86, M. C. Thomas [PPCD]. New state record.

***Agrilus diospyroides* Knull.** KANSAS: Crawford Co., 27-V-87, on *Diospyros virginiana*, G. A. Salsbury [TCMC]. New state record.

***Agrilus dozieri* Fisher.** GEORGIA: Ware Co., Cowhouse Road, 1.6 mi N Okefenokee Swamp Camp, 22-V-88, R. Turnbow. New state record.

***Agrilus egenus* Gory.** KANSAS: Barber Co., 7 mi W Medicine Lodge, 3-VI-75, G. H. Nelson; Comanche Co., 19-VI-86, G. A. Salsbury; Stafford Co., 25-VI-86, G. A. Salsbury, all on *Robinia pseudoacacia* [TCMC & GHNC]. New state record.

***Agrilus eleanorae* Fisher.** ARIZONA: Cochise Co., Huachuca Mts., Miller Cyn., 24, 26-VII-87, T. C. MacRae, on *Acacia* sp. [& GHNC]. New state record.

***Agrilus fallax* Say.** MISSOURI: Franklin Co., River Round Wildlife Area, emerged ex dead $\frac{3}{4}$ " diameter branch, *Celtis tenuifolia*, 13-V-86, wood collected, 7-VIII-85, T. C. MacRae [& GHNC]. New larval host record.

***Agrilus geminatus* (Say).** WEST VIRGINIA: Charleston, 29-V-87, M. C. Thomas; Kanawha Co., Guthrie, 26, 27-IV-86, blacklite trap [PPCD & GHNC]. New state record.

***Agrilus gibbicollis* Fall.** KANSAS: Meade Co., 30-VI, 7-VII-86, G. A. Salisbury [TCMC & GHNC]. New state record.

***Agrilus granulatus granulatus* (Say).** ARIZONA: Canyon de Chelly Natl. Mon., 16-V-87, M. & B. Baehr. New state record.

***Agrilus imbellis* Crotch.** OKLAHOMA: Latimer Co., V-85, V-86, K. Stephan [& GHNC]. New state record.

***Agrilus obolinus* LeConte.** COLORADO: Larimer Co., 28-VII-80, D. Leatherman, on "net-leaf hackberry" [CSUC & GHNC]. New state record.

***Agrilus ohioensis* Knull.** MISSOURI: Ste. Genevieve Co., Hawn State Park, emerged ex dead branch, *Carpinus carolinia*, 15-23-V-88, wood collected, III-88, T. C. MacRae [& GHNC]. New state and larval host records.

***Agrilus olentangyi* Champlain & Knull.** MISSOURI: Jefferson Co., Victoria Glades Natural Area, 16-V-86, T. C. MacRae, on *Celtis tenuifolia*. New adult host record. ALABAMA: Madison Co., Monte Sano State Park, 27-V-84, N. M. Downie [& GHNC]. KANSAS: Clark Co., 10-V-86 & Cowley Co., G. A. Salisbury [TCMC & GHNC]. New state records.

***Agrilus otiosus* Say.** KANSAS: Cherokee Co., G. A. Salisbury, emerged ex dead *Sassafras albidum*, V-88 [TCMC]. MISSOURI: Jasper Co., Sarcoxi, T. C. MacRae, emerged ex pruned *Carya laciniosa*, 23-V, 11-VI-88, wood collected, VIII-87 [& GHNC]. New larval host records.

***Agrilus paracelti* Knull.** MISSOURI: Jefferson Co., Sunridge Tower Park, 13, 16-V, 2-VI-86, T. C. MacRae, on *Celtis tenuifolia* [& GHNC]. KANSAS: Barber Co., near Medicine Lodge, 2-21-VI-75, G. H. Nelson and 30-V-86, T. C. MacRae, all on *Celtis laevigata* var. *texana*. New adult host records.

***Agrilus parvus* E. Saunders.** MISSOURI: St. Charles Co., West Alton, 21-VII, J. M. Sullivan, feeding on foliage *Amorpha fruticosa* [TCMC & GHNC]. WYOMING: Platte Co., Laramie River, Wheatland, 16-VI-74 [ESUW]. New state records.

***Agrilus politus politus* (Say).** MEXICO, SONORA: Yecora, 21-VIII-86, B. Kondratieff [CSUC]. New record Mexico.

***Agrilus quadriimpressus* Ziegler.** MISSOURI: Montgomery Co., Graham Cave State Park, 21-V-86, T. C. MacRae, on *Quercus velutina*; Jefferson Co., Victoria Glades Natural Area, 22-V-86, T. C. MacRae, on *Carya tomentosa*. New adult host records.

***Agrilus transimpressus* Fall.** KANSAS: Barber Co., 5-7 mi W Medicine Lodge, 31-V-86, T. C. MacRae, on *Juglans nigra*. New state record.

***Agrilus vittaticollis* (Randall).** MISSOURI: Montgomery Co., Graham Cave State Park, 21-V-86, T. C. MacRae, on *Amelanchier arborea*. New state record.

***Agrilus walsinghami* Crotch.** COLORADO: Mesa Co., Colorado Natl. Monument, Ute Cyn., 29-VII-88, B. Kondratieff, Weissman, on *Salix* sp. [CSUC]; 15 mi WSW Delta, Escalante Cyn., 6,000', 16-IX-75, U. Lanham [GHNC]. New state record.

***Anthaxia cyanella* Gory.** MISSOURI: Jefferson Co., Sunridge Tower Park, 22-V-86, T. C. MacRae, on *Prunus americana* & *Rhus aromatica*; Victoria Glades Natural Area, 13-V-86, T. C. MacRae, on *Ulmus rubra*, new adult host

records; St. Louis Co., I-270 rest stop, T. C. MacRae, emerged ex dead *Vitis* sp., 1-11-VI-88, wood collected, V-88 [& GHNC]. New larval host record.

***Anthaxia quercata* (Fabricius).** WEST VIRGINIA: Berkeley Co., Sleepy Creek Hunt Area, 25-VI-86, M. C. Thomas & T. Allen [PPCD]. New state record.

***Anthaxia viridifrons* Gory.** MISSOURI: Jefferson Co., Victoria Glades Natural Area, T. C. MacRae, emerged ex branch *Ulmus rubra*, 8, 15-V-88, branch collected, III-88 [& GHNC]. New larval host record.

***Brachys aerosus* (Melsheimer).** WEST VIRGINIA: Berkeley Co., Sleepy Creek Mt., 23-V, 19, 24-VI-86, T. Allen; Hampshire Co., Grace, 21-VII-76; Romney, 21-VII-76, W. Northeimer & K. Elrod; Hardy Co., Moorefield, 17-VIII-76, W. Northeimer; Pocahontas Co., Boyer 12-VIII-76, C. C. Coffman, all malaise trap [PPCD & GHNC]. New state record.

***Brachys aeruginosus* Gory.** KANSAS: Cherokee Co., 18-IV-88, G. A. Salisbury, on *Sassafras albidum* [TCMC]. MISSOURI: St. Francois Co., St. Francois State Park, 25-IV-86, T. C. MacRae, on *Quercus marilandica* [& GHNC]. New adult host records. WEST VIRGINIA: Hampshire Co., Grace, I-VI-76, W. Northeimer, malaise trap [PPCD]. New state record.

***Brachys ovatus* (Weber).** WEST VIRGINIA: Hampshire Co., Romney, 8-VI-76; Hardy Co., Moorefield, 2-VI-76, all W. Northeimer & K. Elrod, all malaise trap [PPCD & GHNC]. New state record.

***Buprestis confluenta* (Say).** MISSOURI: Jasper Co., 11-VI-64, W. R. Crow [UMRM]; Nodaway Co., Maryville, 3-X-70, M. Donisi [JRHC]. New state record.

***Buprestis decora* Fabricius.** MISSOURI: Dent Co., Salem, 18-IV-59, W. D. Buchanan [UMRM]. New state record.

***Buprestis salsburyensis* Herbst.** WEST VIRGINIA: Hampshire Co., 3 mi S Purgitsville, 13-V-69, J. M.; Morgan Co., Cacapon State Park, 9-V-85, G. W. Gibson [PPCD & GHNC]. New state record.

***Chalcophora liberta* (Germar).** MINNESOTA: Crow Co., Manhattan Beach, 19-VI-63, P. C. L. [TCMC]. New state record.

***Chrysobothris harrisi* (Hentz).** WEST VIRGINIA: Hampshire Co., Romney, 25-V-77, C. C. Coffman, malaise trap [PPCD]. New state record.

***Chrysobothris ignicollis* Horn.** KANSAS: Kiowa Co., 7-V-88, G. A. Salisbury [TCMC]. New state record.

***Chrysobothris neotexana* Dozier.** MISSOURI: Jefferson Co., Sunridge Tower Park, T. C. MacRae, emerged ex dead 3" trunk of *Juniperus virginiana*, 5-10-VI-86, wood collected, 9-III-85 [& GHNC]. New state record.

***Chrysobothris sexsignata* (Say).** MISSOURI: Franklin Co., River Round Wildlife Area, T. C. MacRae, emerged ex dead twig *Carya glabra*, 13-V-86; Montgomery Co., Graham Cave State Park, T. C. MacRae, emerged ex dead branch *Amelanchier arborea*, 21-30-VI-88, wood collected, III-88 [& GHNC]. New larval host records.

***Cypriacis striata* Fabricius.** WEST VIRGINIA: Kanawha Co., Cross Lanes, 14-V-82, C. Oldham [PPCD]. New state record.

***Descarpentriesina cyanipes* (Say).** MISSISSIPPI: Washington Co., Delta Expt. Forest, 28/29-V-81, R. L. Penrose [RLWE]. WEST VIRGINIA: Monongalia Co., 17-VIII-07, F. Martin & N. Miller, black locust [PPCD]. New state record.

***Dicerca lepida* LeConte.** OKLAHOMA: Latimer Co., VI-84, K. Stephan. New state record.

***Dicerca lurida* (Fabricius).** MISSOURI: Jefferson Co., Valley View Glades

Natural Area, T. C. MacRae, emerged ex dead branch *Carya glabra*, 7, 28-IX-88, wood collected, III-87. New larval host record.

***Dicerca tenebrica* (Kirby)**. MISSOURI: Mississippi Co., Big Oak Tree State Park, 13-VIII-65, R. Zack [UMRM]. New state record.

***Mastogenius crenulatus* Knull**. MISSOURI: Boone Co., Columbia, 12-V-84, D. Utt [TCMC]. New state record.

***Pachyschelus schwarzi* Kerremans**. MISSOURI: Jefferson Co., House Springs, T. C. MacRae, emerged ex leaves *Apios americana*, 12-V-86, leaves collected, 9-IX-85 [& GHNC]. New larval host and state records.

***Paragrilus tenuis* (LeConte)**. MISSISSIPPI: Leflore Co., Greenwood, 13-VII-71, D. Brzoska [TCMC]. New state record.

***Polycesta arizonica* Schaeffer**. ARIZONA: Huachuca Mts., Copper Canyon, emerged from *Quercus emoryi*, 30-VI, 5-VII-87, wood collected, 26-VII-84, G. H. Nelson. New larval host record.

***Ptosima gibbicollis* (Say)**. FLORIDA: Marion Co., Ocala, 17, 26-II-77, M. C. Thomas [FSCA]. WEST VIRGINIA: Berkeley Co., Sleepy Creek Hunt Area, 24-VI-86, M. C. Thomas & T. Allen; Kanawha Co., Coonskin Park, 25-V-87, M. C. Thomas [PPCD]. New state records.

***Taphrocerus agriloides* Crotch**. KANSAS: Cowley Co., 29-IV-86, G. A. Salisbury, on *Nemastylis geminiflora* [TCMC & GHNC]. New state and adult host records.

***Taphrocerus chevrolati* Obenberger**. COLORADO: Chatfield State Park, CL854, 6-VI-77, D. A. & J. T. Polhemus; St. Vrain Nuclear Power Site, 3-VII-72, J. W. Brewer, malaise trap [CSUC & GHNC]; Weld Co., Roggen, 2-VII-78, G. E. Bohart [EMUS]. KANSAS: Morton Co., 13-V-87, G. A. Salisbury [TCMC]. New state records.

***Taphrocerus cylindricollis* Kerremans**. MISSOURI: Vernon Co., Gay Feather Prairie, 8-V-87, T. C. MacRae. New state record.

***Taphrocerus howardi* Obenberger**. WEST VIRGINIA: Wood Co., Lubeck, 20-V-70, J. D. Hacker, oats [PPCD]. New state record.

***Taphrocerus nicolayi* Obenberger**. WEST VIRGINIA: Hampshire Co., Grace, 21-IX-76, C. C. Coffman; Hardy Co., Moorefield, 9-VI-76, W. Northeimer & K. Elrod, malaise trap [PPCD & GHNC]. New state record.

***Taphrocerus schaefferi* Nicolay & Weiss**. WEST VIRGINIA: Hampshire Co., Romney, 8-VI-76, W. Northeimer & K. Elrod; Hardy Co., Fisher, 17-VIII-76, W. Northeimer, all malaise trap [PPCD & GHNC]. New state record.

***Texania fulleri* (Horn)**. Nothing has been recorded about the biology of this uncommon species. One female was collected while ovipositing at the base of the trunk of a standing dead *Celtis laevigata* in TEXAS: Bexar Co., Babcock Road and Scenic Loop, near San Antonio, 11-VII-86, G. H. Nelson. New larval host record.

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BOOKS ON COLEOPTERA

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Contains keys to adults and larvae from New Zealand. There are no descriptions, but it is a well-illustrated book.

- EISENBEIS, G., AND W. WICHARD. 1987. **Atlas on the biology of soil arthropods.** Springer-Verlag, New York. 437 pp.

The Coleoptera are on pages 284-347 and plates 132-163. The descriptions are minimal, but there are excellent SEMs of various soil-dwelling beetles and larvae. It is a nice book to look through, but it has little practical value.

- MONTES, C., Y. A. G. SOLER. 1986. **Lista faunística y bibliográfica de los coleópteros acuáticos Dryopoidea (Dryopidae & Elmidae) de la Península Ibérica e Islas Baleares.** *Asociación Española de Limnología*, Madrid. 38 pp.

A list of 18 Dryopidae and 35 Elmidae species from the Iberian Peninsula and Balearic Islands.

- BILY, S., AND O. MEHL. 1989. **Longhorn beetles (Coleoptera, Cerambycidae) of Fennoscandia and Denmark.** *Fauna Entomologica Scandinavica*. Vol. 22, 203 pp, 9 colored plates.

Includes keys to subfamilies, genera, and species and includes 86 colored habitus illustrations. For each species a description, the distribution, and biology are included. A table at the end gives the distribution by province.

- BØCHER, J. 1988. **The Coleoptera of Greenland.** *Meddelelser om Grønland*, Bioscience 26. 100 pp.