

**ARIZONA GAME AND FISH DEPARTMENT  
HERITAGE DATA MANAGEMENT SYSTEM**

**Invertebrate Abstract**

**Element Code:** IIHEM28030

**Data Sensitivity:** No

**CLASSIFICATION, NOMENCLATURE, DESCRIPTION, RANGE**

**NAME:** *Chlorochroa rita*

**COMMON NAME:** Santa Rita Mountains Chlorochroan Bug, Santa Rita Mountain Stinkbug

**SYNONYMS:** *Rhytidilomia rita*

**FAMILY:** Pentatomidae

**AUTHOR, PLACE OF PUBLICATION:** Van Duzee, 1934.

**TYPE LOCALITY:** Santa Rita Mountains, Pima County, Arizona.

**TYPE SPECIMEN:** Holotype: CAS (Female). Ed Ball, 13 June 1932 and 12 June 1933.

Paratype: UAZ (Female). Site data (exact collection locale, elevation and habitat type) not listed by collector and are thus unknown.

**TAXONOMIC UNIQUENESS:**

**DESCRIPTION:** Shield like shaped (elongate-ovate), olive green and about 10 mm long with 5-segmented antennae, and often producing a disagreeable odor. The anterior margins of the thorax are simple and not reflexed; scutellum is without medial stripe. Males are unknown. (Johnson 1993).

**AIDS TO IDENTIFICATION:**

**ILLUSTRATIONS:**

**TOTAL RANGE:** Two specimens (holotype and paratype) collected from the Santa Rita Mountains, Pima County, Arizona, and one female from the Huachuca Mountains in Cochise County, Arizona.

**RANGE WITHIN ARIZONA:** See "Total Range."

**SPECIES BIOLOGY AND POPULATION TRENDS**

**BIOLOGY:** Unknown

**REPRODUCTION:** Unknown

**FOOD HABITS:** “*C. rita* most likely occurs in montane riparian habitats, either in areas of flowing or stagnant water, probably associated with various grasses, sedges, and rushes, which are expected to be the typical food plants for this herbivorous insect.” (Johnson, 1992).

**HABITAT:** “The ecology of *C. rita* is unknown and can only be extrapolated from closely related species. Assuming *C. rita* is in the subgenus *Rhytidilomia*, it is most likely associated with aquatic habitats, as is the case of the subcongeners. Consequently, *C. rita* most likely occurs in montane riparian habitats, either in areas of flowing or stagnant water, probably associated with various grasses, sedges, and rushes, which are expected to be the typical food plants for this herbivorous insect. Alternatively *C. rita* would most likely be found on various species of cacti if male specimens are collected and place the species in the subgenus *Chlorochroa* with *C. opuntiae*.” (Johnson, 1992).

**ELEVATION:**

**PLANT COMMUNITY:** Montane riparian habitats (?).

**POPULATION TRENDS:** “To the knowledge of Dr. Thomas, no individuals of *C. rita* have been collected in the last twenty to thirty years, even though searches have been conducted in several mountain ranges of southern Arizona including the Santa Ritas and Huachucas.” (Robert Johnson, 1992, unpublished report).

## **SPECIES PROTECTION AND CONSERVATION**

**ENDANGERED SPECIES ACT STATUS:** None (USDI, FWS 1996)  
[C2 USDI, FWS 1994]  
[C2 USDI, FWS 1991]

**STATE STATUS:** None

**OTHER STATUS:** [Bureau of Land Management Sensitive  
(USDI, BLM AZ 2000, 2005)]

**MANAGEMENT FACTORS:** Likely threats include modification and destruction of montane riparian habitats.

**PROTECTIVE MEASURES TAKEN:**

**SUGGESTED PROJECTS:** Further collection attempts should be made. If specimens are obtained, further study should be done.

**LAND MANAGEMENT/OWNERSHIP:** USFS - Coronado National Forest.

## **SOURCES OF FURTHER INFORMATION**

### **REFERENCES:**

- Johnson, R. 1992. Unpublished report for USDI, Fish and Wildlife Service.
- NatureServe Explorer: An online encyclopedia of life [web application]. 2002. Version 1.6. Arlington, Virginia, USA: NatureServe. Available: <http://www.natureserve.org/explorer>. (Accessed: June 19, 2003).
- Nearctica. Available: <http://www.nearctica.com/nomina/hemips/heterol.htm>.
- USDI, Bureau of Land Management. 2000. Arizona BLM Sensitive Species List. Instruction Memorandum No. AZ-2000-018.
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- USDI, Fish and Wildlife Service. 1991. Endangered and Threatened Wildlife and Plants; Animal Candidate Review for Listing as Endangered or Threatened Species, Proposed Rule. Federal Register 56(225): 58825.
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### **MAJOR KNOWLEDGEABLE INDIVIDUALS:**

- Dr. Donald B. Thomas - USDA-ARS Subtropical Agriculture Research Laboratory, 2301 S. International Boulevard, Weslaco, Texas 78596. (512)565-2606.
- Dr. Thomas Henry - Systematic Entomology Laboratory, Biosystematics and Beneficial Insects Institute, USDA-ARS, c/o National Museum of Natural History, Washington, D.C 10560.
- Dr. Larry H. Rolston - Department of Entomology, Louisiana Agricultural Experimental Station, Louisiana State University, Baton Rouge, Louisiana 70803.
- Dr. George Buxton - California Department of Food and Agriculture, Sacramento, California (economic pentatomids).
- Dr. Thomas is the recognized expert on *Chlorochroa rita* and the genus *Chlorochroa*, while the latter three people are experts on other genera in the family Pentatomidae.

### **ADDITIONAL INFORMATION:**

**Revised:** 1992-06-08 (DBI)  
1992-06-09 (DBI)  
1997-03-02 (SMS)  
2003-06-20 (AMS)

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