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An Annotated Checklist of the Stink Bugs (Heteroptera: Pentatomidae) of New Mexico

C. Scott Bundy¹

Abstract

A list of the Pentatomidae of New Mexico with county records and collection dates is given. A total of 87 species of stink bugs is reported for New Mexico with 19 new state records.

Little is known about the stink bugs (Heteroptera: Pentatomidae) of New Mexico. A few partial lists of the Heteroptera, including stink bugs, have been compiled for specific regions in the state (e.g., Uhler 1871, 1876; Townsend 1894; Van Duzee 1903; Uhler 1904; Barber 1926; Stroud 1950). Also, the Catalog of the Heteroptera (Froeschner 1988) is a valuable reference for state records, including New Mexico, although several pentatomid groups have been revised since its publication. However, little information is available on the distribution of stink bugs within New Mexico. The most comprehensive work is that of Ruckes (1937, 1938) who generated a partial list of the pentatomids for the state based on brief field collections from several regions, with an emphasis on northern New Mexico. Presented here is the first attempt to compile a list of the stink bugs of New Mexico with in-state distributions and collection dates.

I am pleased to dedicate this paper to Dr. J. E. McPherson in honor of his contributions to the field of pentatomology. He has been a mentor and friend, introducing me to the Heteroptera. His research has greatly increased our understanding of the biology and morphology of the Pentatomidae and other heteropteran fauna of North America.

Materials and Methods

Distribution data for each species are based on county records compiled from field-collections, museum specimens, and literature records. Field collections were made from 2000 to 2012 in a variety of habitats, predominantly in southern New Mexico, using several collection methods, including sweep net, beat net, black light, and hand collecting. Collection data from identified adult museum specimens in the Arthropod Collection of New Mexico State University in Las Cruces, the Insect Collection of Eastern New Mexico University in Portales, and the Museum of Southwestern Biology Arthropod Collection in Albuquerque were taken. I made the majority of stink bug identifications. Don Thomas identified species for a few problematic groups and also made the majority of identifications from the Portales collection. Distributional data represented here for each species are based on county records, supplemented with data from Ruckes original list (1937, 1938), Froeschner (1988), and others. Location of counties in New Mexico are presented in Figure 1. Collection dates are based on earliest and latest collections of adult bugs. I placed species alphabetically within subfamily to facilitate use of the list. See the online Pentatomoidea Home page for tribal relationships within the Pentatominae (Rider 2009).

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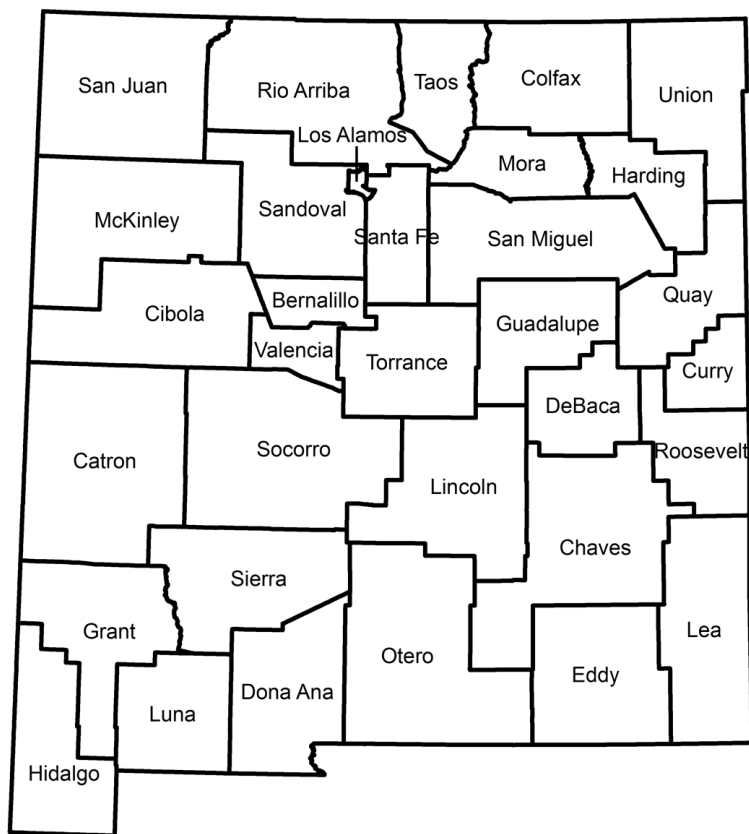


Figure 1. Counties of New Mexico.

Results

A total of 87 species of pentatomids are reported for New Mexico with 19 new state records.

Checklist of Pentatomidae of New Mexico

Subfamily Asopinae

Alcaeorrhynchus grandis (Dallas)

Collection dates: 15 June 2007 (1 ♀) and “Aug.-Dec.” 2007 (1 ♀).

Counties: Otero and Roosevelt.

Note: This is the first record of this species from New Mexico.

Apateticus lineolatus (Herrich-Schaeffer)

Collection dates: 18 September 1975.

Counties: Roosevelt.

Note: This is the first record of this species from New Mexico.

Apateticus marginiventris (Stål)

Collection dates: 20 July 2004 (1 ♂, current study), 21 July 1916 (Barber 1926), and 25 August 1932 (Ruckes 1937).

Counties: Colfax, Otero, and Santa Fe.

Apoecilus bracteatus (Fitch)

Collection dates: 15 July (no year given, 1 individual) (Ruckes 1937), 3-5 August (no year given, as *Apateticus crocatus* [Uhler]) (Ruckes 1938), and 3 and 11 August (no year given, 3 ♂, 1 ♀) (Uhler 1904).

Counties: Bernalillo, San Miguel, and Santa Fe.

Note: Froeschner (1988) suggested that this state record needs to be verified.

Apoecilus cynicus (Say)

Collection dates: 11 and 14 August (no year given) (1 ♂, 1 ♀, respectively) (Uhler 1904).

Counties: Santa Fe.

Perillus bioculatus (Fabricius)

Collection dates: 14 March through 27 October.

Counties: Bernalillo, Chaves, Colfax, Doña Ana, Eddy, Grant, Harding, Hidalgo, Lea, Roosevelt, Santa Fe, Taos, Union, and Valencia.

Note: County records from Ruckes (1937) are included here.

Perillus confluens (Herrich-Schaeffer)

Note: Uhler (1876) and Ruckes (1937) listed this species from New Mexico, the latter author could not verify its presence in the state.

Perillus exaptus (Say)

Collection dates: 25 July (no year given, multiple individuals, Ruckes 1937) and 12 August 1964 (1 ♂, current study).

Counties: Colfax and Grant.

Perillus splendidus (Uhler)

Collection dates: 11 April through 14 September.

Counties: Catron, Doña Ana, and Taos.

Note: This is the first record of this insect from New Mexico.

Perillus strigipes (Herrich-Schaeffer)

Collection dates: 28 August, 1932 (two specimens, Ruckes 1937).

Counties: Colfax.

Podisus maculiventris (Say)

Collection dates: 21 March through 23 October.

Counties: Bernalillo, Doña Ana, Otero, Roosevelt, Santa Fe, Taos, and Valencia.

Note: The only previous record of this species for the state (as *P. modestus* [Dallas], which has been synonymized with *P. maculiventris*) is that of Ruckes (1937), county record included here.

Podisus placidus Uhler

Collection dates: "April" through 4 September.

Counties: Doña Ana and Roosevelt.

Note: This is the first record of this species from New Mexico.

Podisus serieiventris Uhler

Collection dates: 28 March through 23 September.

Counties: Doña Ana, Lincoln, Otero, and Santa Fe.

Note: A county record from Ruckes (1937) is included here.

Stiretrus anchorago (Fabricius)

Collection dates: Townsend (1894) collected several nymphs (no adults) on 19 August 1891 identified by C.V. Riley.

Counties: Doña Ana (?).

Note: I have not seen specimens of this insect from New Mexico, though it also has been reported by Uhler (1876).

Tylospilus acutissimus Stål

Collection dates: 20 February through 8 October.

Counties: Chaves, Colfax, Curry, Doña Ana, Eddy, Hidalgo, Lincoln, and Roosevelt.

Note: A county record from Barber (1926) is included here.

Zicrona americana Thomas

Collection dates: 20 March through 26 August.

Counties: Bernalillo, Chaves, Doña Ana, Lincoln, Otero, Roosevelt, Sandoval, Socorro, and Valencia.

Note: Thomas (1992) described this species. Previous records of *Z. caerulea* (Linnaeus) in New Mexico likely all belong to *Z. americana* as Thomas (1992) examined individuals of this species from Arizona and Texas.

Subfamily Pentatominae

Aelia americana Dallas

Collection dates: 25 April through 13 August.

Counties: Bernalillo, Colfax, Socorro, Torrance, and Valencia.

Note: A county record from Ruckes (1937) is included here.

Agonoscelis puberula Stål

Collection dates: 28 May through 16 October.

Counties: Catron, Doña Ana, Hidalgo, and Sierra.

Note: This introduced African species first was reported from the United States, with records included from New Mexico, by Thomas et al. (2003).

Antheminia remota (Horváth)

Collection dates: 18 June through 6 July.

Counties: Chaves, Colfax, Lincoln, and Taos.

Note: *Codophila remota* (Horváth) was moved to *Antheminia* (see Rider 1998). County records from Barber (1926) and Ruckes (1937) are included here.

Bagrada hilaris (Burmeister)

Collection dates: 28 May through 16 October.

Counties: Catron, Doña Ana, Otero, Socorro, and Valencia.

Note: This introduced Old World species first was reported in California in 2008 (see Palumbo and Natwick 2010). It first was reported from New Mexico by Bundy et al. (2012).

Banasa dimidiata (Say)**Collection dates:** 10 June through "August."**Counties:** Santa Fe and Socorro.**Note:** A county record from Ruckes (1937) is included here. An alternate (original), but rarely used, spelling of this species (*B. dimiata*) was suggested by Froeschner (1988). However, Hoffman (2005) provides strong evidence for maintaining *B. dimidiata* as the correct spelling.*Banasa euchlora* Stål**Collection dates:** 27 March through 14 October.**Counties:** Bernalillo, Catron, Curry, Doña Ana, Eddy, Grant, Otero, Roosevelt, and Torrance.*Banasa rolstoni* Thomas and Yonke**Collection dates:** 14 April through 5 November.**Counties:** Doña Ana and Lincoln.**Note:** This is the first record of this insect from New Mexico.*Banasa sordida* (Uhler)**Collection dates:** 5 June through 8 September.**Counties:** Bernalillo, Catron, Doña Ana, Hidalgo, Santa Fe, and Taos.**Note:** A county record from Ruckes (1937) is included here.*Banasa subcarnea* Van Duzee**Collection dates:** 4 July through 5 November.**Counties:** Catron, Lincoln, Otero, and San Miguel.**Note:** A county record from Uhler (1904) is included here.*Brochymena affinis* Van Duzee**Collection dates:** 14 March through 23 November.**Counties:** Bernalillo, Doña Ana, Eddy, Lincoln, Otero, and Roosevelt.**Note:** This is the first report of this species from New Mexico.*Brochymena dilata* Ruckes**Counties:** Socorro.**Note:** I have not seen specimens of this insect from New Mexico, but it has been reported by Ruckes (1946).*Brochymena hoppingi* Van Duzee**Collection dates:** 20 March (1 ♀, this study).**Counties:** Doña Ana, Rio Arriba, and San Miguel.**Note:** County records from Ruckes (1937) are included here.*Brochymena lineata* Ruckes**Collection dates:** 27 March through 23 November.**Counties:** Catron, Doña Ana, McKinley, and Torrance.**Note:** A county record (and paratype) from Ruckes (1946) is included here.*Brochymena myops* Stål**Collection dates:** "July."**Counties:** San Miguel.

Note: I have not seen specimens of this insect from New Mexico. Ruckes (1946) accepted Uhler's (1876) New Mexico record "with reservations," possibly being a misidentified specimen of *B. hoppingi*. However, he did not mention his own identification of specimens collected previously from New Mexico (Ruckes 1937).

Brochymena parva Ruckes

Collection dates: 29 January through 21 December.

Counties: Curry, Doña Ana, Los Alamos, Otero, and Sierra.

Brochymena quadripustulata (Fabricius)

Collection dates: 1 April through 18 November.

Counties: Bernalillo, Chaves, Curry, Lea, Roosevelt, Santa Fe, Sierra, and Union.

Note: County records from Ruckes (1937) are included here.

Brochymena sulcata Van Duzee

Collection dates: 10 February through 27 November.

Counties: Bernalillo, Catron, Chaves, Curry, Doña Ana, Eddy, Lea, Luna, Otero, Quay, Sierra, and Valencia.

Chinavia hilaris (Say)

Collection dates: 29 February through 20 October.

Counties: Bernalillo, Catron, Chaves, Doña Ana, Eddy, Otero, San Juan, Socorro, and Valencia.

Note: The subgenus *Chinavia* within the genus *Acrosternum* was raised to genus (Schwertner 2005, Schwertner and Grazia 2006), transferring *Acrosternum hilare* (Say) to *C. hilaris*. This is the first record of this insect from New Mexico.

Chlorochroa (Chlorochroa) congrua Uhler

Collection dates: 8 May (2 adults) and 16 July (1 adult) 1891.

Counties: Doña Ana.

Note: The only records of this species from New Mexico are Townsend (1894), identified by Uhler. The presence of *C. congrua* in the state needs to be verified.

Chlorochroa (Chlorochroa) ligata (Say)

Collection dates: 17 February through 10 December.

Counties: Bernalillo, Chaves, Colfax, Curry, De Baca, Doña Ana, Eddy, Grant, Harding, Hidalgo, Lincoln, Otero, Roosevelt, Sierra, Socorro, Torrance, Union, and Valencia.

Note: A county record from Barber (1926) is included here.

Chlorochroa (Chlorochroa) opuntiae Esselbaugh

Collection dates: 17 July through 12 October.

Counties: Doña Ana, Eddy, and Roosevelt.

Note: This is the first record of this insect from New Mexico.

Chlorochroa (Chlorochroa) sayi (Stål)

Collection dates: 10 February through 18 December.

Counties: Bernalillo, Catron, Chaves, Colfax, Curry, De Baca, Doña Ana, Eddy, Guadalupe, Hidalgo, Lea, McKinley, Otero, Quay, Roosevelt, Socorro, Torrance, Union, and Valencia.

Note: County records from Barber (1926) and Ruckes (1937) are included here.

Chlorochroa (Chlorochroa) uhleri (Stål)

Collection dates: 5 May 2001 (2 ♀♀, two counties, this study) and “June” (6 individuals) (Stroud 1950).

Counties: Curry, Otero, and Roosevelt.

Chlorochroa (Rhytidolomia) faceta (Say)

Collection dates: 19 March through 24 November.

Counties: Chaves, Colfax, Doña Ana, Hidalgo, Roosevelt, Socorro, and Valencia.

Note: County records from Barber (1926) and Ruckes (1938) are included here.

Chlorochroa (Rhytidolomia) osborni (Van Duzee)

Collection dates: 13 January through 9 December.

Counties: Chaves, Curry, Doña Ana, Eddy, Guadalupe, Roosevelt, Socorro, and Valencia.

Chlorochroa (Rhytidolomia) viridicata (Walker)

Collection dates: 27 May through 8 September.

Counties: Chaves, Colfax, McKinley, Roosevelt, San Miguel, Santa Fe, and Socorro.

Note: County records from Barber (1926) and Ruckes (1937) are included here.

Chlorocoris (Chlorocoris) distinctus Signoret

Note: I have not seen specimens of this insect from New Mexico, but it has been reported by Barber (1910), as *C. atrispinus* Stål. However, many specimens identified as *C. distinctus* actually are *C. wernerii* Thomas (D. Thomas, pers. comm.).

Chlorocoris (Monochrocerus) hebetatus Distant

Collection dates: 9 June, 1992 (1 ♀).

Counties: Hidalgo.

Note: This is the first record of this insect from New Mexico.

Coenus delius (Say)

Collection dates: 4 May through 5 October.

Counties: Bernalillo, Chaves, Curry, Doña Ana, Eddy, and Lincoln.

Note: A county record from Rider (1995) is included here.

Cosmopepla binotata Distant

Collection dates: 8 June through 16 October.

Counties: Bernalillo, Catron, Cibola, Doña Ana, Grant, Lincoln, Otero, Roosevelt, and Socorro.

Note: A county record from Ruckes (1938) is included here.

Cosmopepla decorata (Hahn)

Collection dates: 16 April through 16 October.

Counties: Catron, Doña Ana, Grant, Hidalgo, Lincoln, Otero, Roosevelt, Socorro, and Torrance.

Note: McDonald (1986) first reported this species from New Mexico, no counties given.

Cosmoepepla lintneriana Kirkaldy

Collection dates: “July and August” (no year given) Ruckes (1938), 10 August 1941 (2 ♂), and “September” 1959, (1 ♂) (current study).

Counties: Doña Ana, Otero, and Santa Fe.

Note: Though frequently in the literature as *C. bimaculata* (Thomas), its original combination is preoccupied; therefore, *C. lintneriana* is the correct name (Rider and Rolston 1995).

Dendrocoris arizonensis Barber

Note: Thomas and Brailovsky (1999) first reported this species from New Mexico, no counties given.

Dendrocoris contaminatus Uhler

Collection dates: 24 March through 3 November.

Counties: Bernalillo, Chaves, Doña Ana, Lea, Lincoln, Luna, Otero, Santa Fe, and Sierra.

Note: County records from Ruckes (1938) are included here.

Dendrocoris humeralis (Uhler)

Collection dates: 6 August (no year given, 4 specimens).

Counties: San Miguel.

Note: The only record of this species from New Mexico is Uhler (1904). The presence of *D. humeralis* in the state needs to be verified.

Dendrocoris nelsoni Thomas and Brailovsky

Collection dates: 18 May 1985 (1 ♀).

Counties: Lincoln.

Note: A single specimen (paratype) has been reported from New Mexico by Thomas and Brailovsky (1999).

Dendrocoris neomexicanus Nelson

Collection dates: 8 June through 18 August.

Counties: McKinley and Otero.

Note: County records (and types) from Nelson (1955) are included here.

Dendrocoris parapini Nelson

Collection dates: 1 July through 16 August.

Counties: San Miguel, Sandoval, and Santa Fe.

Note: County records (and types) from Nelson (1957) are included here.

Dendrocoris pini Montandon

Note: I have not seen specimens of this insect from New Mexico, but it has been reported by Nelson (1955), no counties given.

Dendrocoris reticulatus Barber

Collection dates: 13 (no year given, 2 specimens) (Uhler 1904) and 18 August 1993 (2 ♀♀, this study).

Counties: Hidalgo and San Miguel.

Euschistus bififormis Stål

Collection dates: 20 April through 4 December.

Counties: Doña Ana, Grant, Hidalgo, and Otero.

Note: This is the first record of this species from New Mexico.

Euschistus egglestoni Rolston

Collection dates: 5 August through 30 October.

Counties: Doña Ana, Hidalgo, and Lea.

Note: This is the first record of this species from New Mexico.

Euschistus inflatus Van Duzee

Collection dates: 8 March through 19 October.

Counties: Catron, Doña Ana, Grant, Lincoln, Roosevelt, San Miguel, Sierra, and Valencia.

Note: A county record each from Ruckes (1937) and Van Duzee (1903) are included here.

Euschistus servus servus (Say)

Collection dates: 2 April through 28 October.

Counties: Catron, Curry, Doña Ana, Eddy, Grant, Hidalgo, Luna, Otero, Roosevelt, and Valencia.

Note: County records from Ruckes (1938) are included here.

Euschistus variolarius (Palisot)

Counties: Bernalillo.

Note: I have not seen specimens of this insect from New Mexico, but it has been reported by Osborn (1893) from a single locality. The presence of *E. variolarius* in the state needs to be verified.

Halyomorpha halys (Stål)

Collection dates: 7 November 2011 (2 ♀♀).

Counties: Luna.

Note: These two specimens of the brown marmorated stink bug were collected on a trailer from Pittsburg, Pa. This is the first record of this species from New Mexico.

Holcostethus abbreviatus Uhler

Collection dates: 18 April through 27 July.

Counties: Doña Ana, Grant, Santa Fe, and Union.

Note: A county record from Ruckes (1938) is included here.

Holcostethus limbolarius (Stål)

Collection dates: 7 March through 29 October.

Counties: Cibola, Colfax, Doña Ana, Eddy, Grant, Hidalgo, Lea, Lincoln, Otero, Roosevelt, San Miguel, Santa Fe, Sierra, and Socorro.

Note: County records from Ruckes (1937) and Uhler (1904) are included here.

Holcostethus ruckesi McDonald

Collection dates: 18 July 1961 (1 ♀).

Counties: Grant.

Note: A single specimen (paratype) has been reported from New Mexico by McDonald (1974).

Hymenarcys crassa Uhler

Collection dates: 8 April 1993 (1 ♀).

Counties: Hidalgo.

Note: This is the first record of this species from New Mexico.

Loxa flavicollis (Drury)

Note: Uhler (1876) reported seeing specimens collected in New Mexico. The presence of *L. flavicollis* in the state needs to be verified.

Mecidea major Sailer

Collection dates: The insect has been collected every month of the year.

Counties: Bernalillo, Chaves, Doña Ana, Grant, Hidalgo, Otero, Quay, Roosevelt, Sierra, Socorro, Union, and Valencia.

Mecidea minor Ruckes

Collection dates: This insect has been collected every month of the year.

Counties: Bernalillo, Chaves, Doña Ana, Grant, Hidalgo, Otero, Quay, Roosevelt, Sierra, and Valencia.

Menecles insertus (Say)

Collection dates: 7 March through 20 October.

Counties: Cibola, Bernalillo, Doña Ana, Eddy, Otero, Roosevelt, and Sierra.

Note: This is the first record of this species from New Mexico.

Mepheronarcys aequalis (Say)

Collection dates: 14 August 1962 (1 ♀).

Counties: Hidalgo.

Note: *Hymenarcys aequalis* was placed in a new genus by Thomas (2012). This is the first record of this species from New Mexico.

Mormidea cubrosa Dallas

Note: I have not seen specimens of this insect from New Mexico, but it has been reported by Uhler (1876).

Moromorpha tetra (Walker)

Collection dates: 11 June through 30 October.

Counties: Doña Ana, Eddy, Grant, Hidalgo, Lea, Lincoln, and Luna.

Murgantia histrionica (Hahn)

Collection dates: 28 February through 22 November.

Counties: Bernalillo, Catron, Chaves, Colfax, De Baca, Doña Ana, Eddy, Grant, Guadalupe, Harding, Luna, Otero, Roosevelt, Sandoval, San Miguel, Sierra, Torrance, and Valencia.

Note: A county record from Barber (1926) is included here.

Neottiglossa sulcifrons Stål

Collection dates: "15-30 July" (no year given) (Ruckes 1938).

Counties: Doña Ana, Hidalgo, and Luna.

Nezara viridula (Linnaeus)

Collection dates: 21 September 1971 (1 ♂).

Counties: Roosevelt.

Note: This is the first record of this species from New Mexico.

Oebalus mexicanus (Sailer)

Collection dates: 27 July through 5 November.

Counties: Doña Ana and Grant.

Note: This is the first record of this insect from New Mexico.

Oebalus pugnax (Fabricius)

Collection dates: This insect has been collected from 5 June through "October."

Counties: Bernalillo and Roosevelt.

Parabrochymena arborea (Say)

Collection dates: "June" through 1 August.

Counties: Hidalgo, San Miguel, and Santa Fe.

Note: County records from Ruckes (1937) are included here. Larivière (1992) erected the genus, and Ahmad and McPherson (1998) supported the validity of *Parabrochymena*.

Piezodorus guildinii (Westwood)

Note: Van Duzee (1904) reported seeing an individual collected from New Mexico. The presence of *P. guildinii* in the state needs to be verified.

Prionosoma podopioides Uhler

Collection dates: 3 April through 23 October.

Counties: Bernalillo, Chaves, Colfax, Doña Ana, Eddy, Otero, Roosevelt, and Socorro.

Note: County records from Ruckes (1937) and Stroud (1950) are included here.

Tepa brevis (Van Duzee)

Collection dates: 7 June through 13 October.

Counties: Doña Ana, Otero, and Roosevelt.

Note: A county record from Stroud (1950) is included here.

Tepa rugulosa (Say)

Collection dates: 29 April through 20 October.

Counties: Chaves, Colfax, Roosevelt, and San Juan.

Note: A county record from Ruckes (1937) is included here.

Tepa vanduzeei Rider

Collection dates: 18 June through 6 August.

Counties: Sandoval, San Juan and Taos.

Note: A county record from Rider (1986) is included here.

Tepa yerma (Rolston)

Collection dates: 10 April through 20 October.

Counties: Cibola, Doña Ana, and Socorro.

Note: This is the first record of this species from New Mexico.

Thyanta custator accerra McAtee

Collection dates: 3 March through 23 November.

Counties: Bernalillo, Catron, Chaves, Cibola, Colfax, Curry, De Baca, Doña Ana, Eddy, Grant, Guadalupe, Harding, Hidalgo, Lea, Lincoln, Luna, McKinley, Otero, Quay, Rio Arriba, Roosevelt, Sandoval, San Miguel, Santa Fe, Socorro, Torrance, Union, and Valencia.

Note: County records from Rider and Chapin (1992) are included here.

Trichopepla semivittata (Say)

Collection dates: 8 August through 12 October.

Counties: Chaves, Doña Ana, and Roosevelt.

Note: This is the first record of this species from New Mexico.

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