

THE CAVE SPIDERS (ARANEAE) OF BEXAR AND COMAL COUNTIES, TEXAS

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ABSTRACT

All records are included for all spiders known from caves and sinks in Bexar and Comal counties, Texas. The fauna includes at least 64 species, including 17 possible troglobites: *Cicurina baronia*, *C. brunsi*, *C. bullis*, *C. joya*, *C. loftini*, *C. madla*, *C. neovespera*, *C. platypus*, *C. puentecilla*, *C. reclusa*, *C. venii*, *C. vespera* [Dictynidae]; *Neoleptoneta bullis*, *N. coeca*, *N. microps* [Leptonetidae]; *Erigone* n. sp. [Linyphiidae]; *Eidmannella rostrata* [Nesticidae].

INTRODUCTION

The cave fauna of Bexar and Comal counties is of considerable interest because of the numerous species of cave-restricted species (troglobites) that have been recorded. Many of these have extremely limited distri-

butions, with some species known only from one or a few nearby caves. The geologic and topographic complexity of the region has led to the evolution of many closely related species in the area. Cokendolpher (2004a) has discussed the zoogeography and evolution of the species of blind *Cicurina* from caves in Bexar County.

The cave spider fauna includes a minimum of 64 species, including at least 17 suspected troglobites in four families (Dictynidae, Linyphiidae, Nesticidae, and Leptonetidae). The highly restricted distributions of some of these species and rapid development of Bexar County led to the U. S. Fish and Wildlife Service listing *Cicurina baronia* Gertsch, *C. madla* Gertsch, *C. venii* Gertsch, *C. vespera* Gertsch, and *Neoleptoneta microps* (Gertsch)

as endangered in 2000. Other species of troglobite in these two counties, some described elsewhere in this volume, have equally restricted distributions and should probably be considered for listing.

With the exception of a few specimens collected prior to 1961, most of the fauna has been obtained by members of the Texas Speleological Survey. The fauna of Bexar County is far better known than that of Comal County because of studies conducted in the 1990s as a result of the petition to list species as endangered. Studies have continued since the listing in 2000, and it is anticipated that considerable information will be obtained in the next few years. Monitoring of the fauna of endangered species caves on Camp Bullis has begun and should provide considerable information on population sizes and biology of species inhabiting those caves.

MATERIALS

Unless indicated otherwise, all specimens are deposited in the collection of the Texas Memorial Museum. Other collections are: AMNH (American Museum of Natural History) and JCC (J. Cokendolpher Collection). With the exception of specimens studied earlier by Dr. W. J. Gertsch, Cokendolpher has identified all material. Full collection data for some species have appeared elsewhere in the context of revisions and descriptions. In those cases we only repeat the cave name here. Those wishing further collection details should consult the earlier publication.

ACKNOWLEDGMENTS

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Family Agelenidae

Agelenopsis sp.

Record.—*Bexar County*: King Toad Cave, 1 June 1993 (J. Loftin, M. Reyes), 1 immature.

Agelenopsis aperta (Gertsch)

Agelenopsis aperta: Reddell, 1988:34; Veni, 1988:83.

Records.—*Bexar County*: Cave of the Half-Snake, April 1982 (G. Veni), 1 immature (det. W. J. Gertsch) (AMNH); Logan's Cave, 8 June 1993 (J. Loftin, J. Reddell, M. Reyes, G. Veni), 1 female.

Tegenaria domestica (Clerck)

Record.—*Bexar County*: Cave With A View, 1 June 1993 (J. Loftin, J. Reddell, M. Reyes, G. Veni), 1 female; 7 immatures.

Family Amphinetidae

Metaltella simoni (Keyserling)

Metaltella simoni: Reddell, 1988:34; Veni, 1988:211.

Record.—*Bexar County*: Robber Baron Cave (Reddell, 1988).

Comment.—This species is native to Brazil, Uruguay, Argentina and introduced to the USA (Platnick, 2004).

Family Anyphaenidae

Undetermined genus and species

Record.—*Bexar County*: Lone Gunman Pit, 23 Oct. 1997 (P. Sprouse, G. Veni), 1 immature.

Comment.—This specimen is too immature to allow further identification.

Anyphaena sp.

Record.—*Bexar County*: Porcupine Squeeze Cave (=Grubbs Cave No. 189), 6.1 km NE Helotes, 12 Jan. 1995 (A. Grubbs, N. Lake, G. Wade), 1 immature.

Comment.—This is an accidental.

Wulfilia tantillus (Chickering)

Record.—*Bexar County*: Kick Start Cave, 30 May 2002 (G. McDaniel, C. Savvas), 1 female.

Comment.—This is an accidental.

Family Araneidae
Undetermined genus and species

Record.—*Bexar County*: Mattke Cave, 10 June 1993 (D. McKenzie, J. Reddell, M. Reyes), 1 male.

Family Caponiidae
Orthonops sp.

Record.—*Bexar County*: Cave in the Woods (=Grubbs Cave #21), 5.3 mi. NE Helotes, 2 Oct. 1995 (A. Grubbs), 1 immature.

Comment.—This is an accidental.

Family Clubionidae
Clubiona sp.

Records.—*Bexar County*: 8A-12 Sink, 15 Dec. 1994 (R. Corbell, B. Larsen), 1 immature; Cave With A View, 1 June 1993 (J. Loftin, J. Reddell, M. Reyes, G. Veni), 1 immature.

Family Corinnidae
Undetermined genus and species

Record.—*Bexar County*: Crownridge Canyon Cave, 13 Nov. 2002 (G. Veni), 2 immatures.

Comment.—These specimens are too immature for further identification.

Falconina (?) sp.

Records.—*Bexar County*: Madla's Drop Cave, 8 June 1993 (J. Loftin, J. Reddell, M. Reyes, G. Veni), 2 immatures; Robbers Cave, 22 June 1993 (J. Loftin, J. Reddell, M. Reyes), 2 immatures; Scorpion Cave, 1 June 1993 (J. Loftin, J. Reddell, M. Reyes), 1 immature; Surprise Sink, 5 Feb. 1995 (A. Grubbs), 2 immatures; Wurzbach Bat Cave, 22 May 1993 (J. Loftin, J. Reddell, M. Reyes), 3 immatures.

Comment.—These specimens are too immature for further identification.

Falconina sp.

Records.—*Bexar County*: Cave, site #305, Government Canyon Karst Fauna Region, Jan. 2000 (H. Bechtol, K. White), 1 immature; Flying Buzzworm Cave, 9 Jan. 1995 (J. Reddell, M. Reyes), 1 immature; 4 Oct. 1995 (J. Reddell, M. Reyes), 3 immatures; Vera Cruz Shaft, 9 Sept. 1998 (J. Krejca, M. Reyes), 1 immature.

Falconina gracilis (Keyserling)

Record.—*Bexar County*: Crownridge Canyon Cave, 19 Nov. 2002 (J. Reddell, M. Reyes), 1 female.

Comments.—This is an accidental. It is recorded from Brazil, Paraguay, Argentina, and introduced in USA (Platnick, 2004).

Trachelas sp.

Trachelas sp.: Reddell, 1988:34; Veni, 1988:81.

Record.—*Bexar County*: Cave of the Bearded Tree, April 1982 (G. Veni), 1 immature (det. W. J. Gertsch) (AMNH).

Comment.—This is an accidental.

Trachelas volutus Gertsch

Record.—*Bexar County*: Surprise Sink, 7 Oct. 1995 (A. Hill, G. Veni), 1 male.

Comment.—This is an accidental.

Family Ctenidae
Leptoctenus byrrhus Simon

Leptoctenus byrrhus: Sissom, Peck, and Cokendolpher, 1999:261, figs. 1-2.

Records.—*Bexar County*: Up the Creek Cave (Sissom, Peck, and Cokendolpher, 1999); 22 April 1999 (J. Reddell, M. Reyes), 1 immature; Get a Rope Cave, 23 Sept. 2000 (G. Veni), 1 immature.

Comments.—Although the new records are based upon immatures, they are probably correct because this species is the only member of the family known from the region. The species is apparently a troglophile in Up the Creek Cave. It has been found crawling on the floor in both twilight and dark zones.

Family Dictynidae
Cicurina (*Cicurella*) sp. (eyeless)

Cicurina spp.: Reddell, 1965:168 [part—Adam Wilson's Cave, Jr. (=John Wagner Ranch Cave No. 3) record only].

Cicurina n. sp. (blind): Reddell, 1988:34 [part—Genesis Cave, John Wagner Ranch Cave No. 3, Kamikazi Cricket Cave, and Young Cave No. 1 records only]; Veni, 1988:137, 150, 170, 173, 267.

Cicurina sp.: Gertsch, 1992:120-121.

Cicurina spp.: Cokendolpher, 2004a:54-56.

Records.—*Bexar County*: Cave, site #301, Government Canyon Karst Fauna Region, Jan. 2000 (H. Bechtol, K. White), 1 immature; Cave, site #305, Government Canyon Karst Fauna Region, Jan. 2000 (H. Bechtol, K. White), 1 immature; Cave, site #820, west of Helotes, Nov. 1999 (K. White), 1 immature; 8A-12 Sink, 15 Dec. 1994 (R. Corbell, B. Larsen), 1 immature; B-52 Cave, 31 March 1995 (J. Reddell, M. Reyes), 3 immatures; 10 Sept. 1998 (J. Cokendolpher, J. Krejca, J. Reddell, M. Reyes), 3 immatures; 29 Oct. 2001 (J. Krejca, P. Sprouse), 1 immature; Backhole, 7 June 1994 (J. Ivy, G. Veni), 1 immature; Black Cat Cave, 27 Jan. 1987 (J. Reddell, M. Reyes), 1 immature (det. W. J. Gertsch) (AMNH); 8 March 1987 (J. Reddell, M. Reyes), 2 immatures (det. W. J. Gertsch) (AMNH); Bunny Hole, 24 Oct. 1994 (J. Reddell, M. Reyes), 3 immatures; 31 March 1995 (J. Reddell, M. Reyes), 5 immatures; 9 Sept. 1998 (J. Cokendolpher, J. Krejca, J. Reddell, M. Reyes), 1 immature; 2 Nov. 2001 (J. Reddell, M. Reyes), 1 immature; Cannonball Cave, 6-7 Nov. 2001 (P. Sprouse), 1 immature; 15 April 2002 (J. Reddell, M. Reyes, G. Veni), 12 immatures; Cave in the Woods (=Grubbs Cave #21), 5.3 mi. NE Helotes, 2 Oct. 1995 (A. Grubbs), 14 immatures; Crownridge Canyon Cave, 13 Nov. 2002 (G. Veni), 1 immature; Dancing Rattler Cave, 21 April 2002 (K. Scanlon), 1 immature; 21 April 2002 (R. Hill, K. Walker), 1 immature; Firing Lane 11 Cave, 9 Jan. 1995 (J. Reddell, M. Reyes), 1 immature; Genesis Cave, June 1985 (A. Cobb, R. Waters), 1 immature (det. W. J. Gertsch) (AMNH); Hackberry Sink Cave, 3 June 2002 (M. Miller, K. Scanlon, K. Walker), 1 immature; Hairy Tooth Cave, 21 Jan. 1994 (W. Elliott, J. Ivy, G. Veni), 7 immatures; Helotes Blowhole, 25 Dec. 1982 (R. Waters), 4 immatures (det. W. J. Gertsch) (AMNH); 20 Nov. 2000 (K. White), 2 immatures; Helotes Hilltop Cave, 29 Nov. 2000 (H. Bechtol, K. White), 1 penultimate male, 1 immature; Here Today, Gone Tomorrow Cave, 1 July 1994 (J. Loftin), 2 immatures; Hilger Hole, 1 April 1998 (B. Johnson, J. Reddell, M. Reyes), 2 immatures; 20 April 1999 (J. Reddell, M. Reyes), 1 immature; Isocow Cave, 15 Dec. 1993 (G. Veni), 1 immature; John Wagner Ranch Cave No. 3, 4 Oct. 1963 (D. McKenzie, J. Reddell), 2 immatures (det. W. J. Gertsch) (AMNH); 23 Dec. 1963 (C. Huebner, O. Knox, 1 immature (det. W. J. Gertsch) (AMNH); 15 June 1993 (J. Loftin, J. Reddell, M. Reyes, G. Veni), 2 immatures; Kamikazi Cricket Cave, no date (A. Grubbs), 7 immatures; 19 Jan. 1986 (S. J. Harden), 1 immature (det. W. J. Gertsch) (AMNH); 10 June 1993 (J. Reddell, M. Reyes), 4 immatures; La Cantera Cave No. 1 (=Cave #2001), UTSA Region, 23 May 2000 (S. Carothers, K. White), 20 immatures; Lithic Ridge Cave, 1 Oct. 1994 (G. Atkinson, L. Palit), 1 immature; 4 June 1995 (G. Veni), 8 immatures; 12 Sept. 2001 (G. Veni), 1 immature; Logan's Cave, April 1987 (A. Grubbs, B. Harrison, C. Thibideaux), 2 immatures; 8 June 1993 (J.

Loftin, J. Reddell, M. Reyes, G. Veni), 9 immatures; Lone Gunman Pit, 8 Sept. 1998 (J. Cokendolpher, M. Reyes), 1 immature; Low Priority Cave, 14 Dec. 1994 (C. Savvas), 2 immatures; 9 June 1995 (J. Reddell, M. Reyes), 8 immatures; 29 March 1995 (J. Reddell, M. Reyes), 4 immatures; 8 Sept. 1998 (J. Cokendolpher, J. Reddell, M. Reyes), 5 immatures; 1 Nov. 2000 (J. Reddell, M. Reyes), 5 immatures; 2 Nov. 2001 (J. Reddell, M. Reyes), 1 immature; Madla's Cave, 24 May 1993 (J. Reddell, M. Reyes), 5 immatures; Madla's Drop Cave, 8 June 1993 (J. Loftin, J. Reddell, M. Reyes, G. Veni), 7 immatures; MARS Pit, 9 Oct. 1995 (M. Reyes), Lower Level, 1 immature; 23 Oct. 1995 (J. Reddell, M. Reyes), 1 immature; 4 April 1996 (W. Elliott), Zone 3, 1 immature; 10 Sept. 1998 (J. Cokendolpher, J. Krejca), 7 immatures; 29 Oct. 2001 (J. Krejca, P. Sprouse), 1 immature; Pain in the Glass Cave, 20 Sept. 1995 (J. Ivy, B. Johnson, L. McNatt), entrance rubble fill, 1 immature; 9 Oct. 1995 (J. Reddell, M. Reyes), main pit, 1 immature; Platypus Pit, 24 Oct. 1995 (J. Reddell, M. Reyes), 2 immatures; 11 March 1998 (W. Elliott), Zone 2, 1 immature; Porcupine Squeeze Cave (=Grubbs Cave No. 189), 6.1 km NE Helotes, 12 Jan. 1995 (A. Grubbs, N. Lake, G. Wade), 8 immatures; Robber's Cave, no date (A. Grubbs), 1 immature; 3 Sept. 1987 (A. Cobb, G. Veni), 3 immatures (det. W. J. Gertsch) (AMNH); 22 June 1993 (J. Loftin, J. Reddell, M. Reyes), 10 immatures; 14 July 1993 (J. Reddell, M. Reyes), 3 immatures; Root Canal Cave, 26 Oct. 1995 (J. Reddell, M. Reyes), 4 immatures; 20 April 1999 (J. Reddell, M. Reyes), 1 immature; Scenic Overlook Cave (=Cave site #2101), Government Canyon Karst Fauna Region, 11 May 2001 (H. Bechtol, K. White), 9 immatures; Scorpion Cave, 1 June 1993 (J. Loftin, J. Reddell, M. Reyes), 7 immatures; Sharron Spring, 6 Nov. 2000 (J. Krejca, P. Sprouse), ex mophead placed in spring mouth, 1 penultimate male; Stahl Cave, 14 Dec. 2000 (J. Reddell, M. Reyes), 1 immature; Surprise Sink, 5 Feb. 1995 (A. Grubbs), 1 immature; 21 April 1996 (J. Kennedy, G. Veni, K. Veni), 1 immature; SWCA Cave No. 1, June 2000 (K. White), 3 immatures; 9 Nov. 2000 (K. White), 1 immature; SWCA Cave No. 3, 20 Sept. 2000 (K. White), 4 immatures; Three Fingers Cave, 22 June 1993 (J. Loftin, J. Reddell, M. Reyes), 5 immatures; 2008 = La Cantera Cave No. 3 (=UTSA cave site no. 2008), 17 Nov. 2000 (K. White), 1 immature; Young Cave No. 1, 6 Aug. 1983 (J. Ivy, G. Veni), 1 immature (det. W. J. Gertsch) (AMNH); 6 Sept. 1993 (J. Reddell, M. Reyes), 8 immatures.

Comal County: Coreth Bat Cave, 28 Oct. 1995 (J. Reddell, M. Reyes), 5 immatures; Double Decker Cave, 5 Feb. 1978 (G. Darilek, T. Mills, D. Montgomery), 1 immature (det. W. J. Gertsch) (AMNH); Lewis Cave, 8 March 1968 (J. Fish, S. Fowler, J. Reddell), 1 immature

(det. W. J. Gertsch) (AMNH); Startzville Bat Cave, 1988 (A.G. Grubbs), 1 immature (det. W. J. Gertsch) (AMNH).

Cicurina (Cicurella) sp. (6-eyed)

Cicurina spp. (long-legged 6-eyed species): Cokendolpher, 2004a:55.

Record.—*Bexar County*: Mattke Cave, 10 June 1993 (D. McKenzie, J. Reddell, M. Reyes), 3 immatures.

Comment.—This long-legged species does not appear to be the same as *C. pampa*, but was not examined for the study by Cokendolpher (2004a).

Cicurina (Cicurella) sp. maybe *C. bullis*
Cokendolpher or *C. platypus* Cokendolpher

Cicurina sp. maybe *bullis* or *platypus*: Cokendolpher, 2004a:53-54.

Record.—*Bexar County*: Up the Creek Cave (Cokendolpher, 2004a).

Cicurina (Cicurella) sp. prob. *baronia* Gertsch

Record.—*Bexar County*: Robber Baron Cave, 22 May 1993 (J. Reddell, M. Reyes), 2 immatures.

Cicurina (Cicurella) sp. prob. *bullis* Cokendolpher

Cicurina spp., probably *C. bullis*: Cokendolpher, 2004a:55.

Record.—*Bexar County*: Eagles Nest Cave, 5 April 1996 (W. Elliott), Zone 1, 1 immature.

Cicurina (Cicurella) sp. prob. *loftini* Cokendolpher

Cicurina spp. probably *C. loftini*: Cokendolpher, 2004a:55.

Record.—*Bexar County*: Caracol Creek Coon Cave, 15 June 1993 (J. Loftin, J. Reddell, M. Reyes, G. Veni), 5 immatures.

Cicurina (Cicurella) sp. prob. *madla* Gertsch

Records.—*Bexar County*: Headquarters Cave, 16 June 1993 (S. Harden, J. Reddell, M. Reyes, G. Veni), 14 immatures; 5 April 1996 (W. Elliott), Zone 3, 1 immature; 26 Oct. 1995 (J. Reddell, M. Reyes), 1 immature; 12 March 1998 (J. Ivy, W. Elliott), Zone 2, 1 immature; 8 Sept. 1998 (J. Cokendolpher, J. Reddell, M.

Reyes), 7 immatures; Helotes Blowhole, no date (A.G. Grubbs, K. Kinsley, K. White), 4 immatures; Hills and Dales Pit, 28 Oct. 2000 (H. Bechtol, K. White), 1 immature; Nov. 2000 (K. White), 3 immatures; Lost Pothole, 4 Feb. 1995 (A.G. Grubbs, G. Hoese, C. Vreeland), 4 immatures

Cicurina (Cicurella) sp. prob. *neovespera*
Cokendolpher

Cicurina spp., probably *C. neovespera*: Cokendolpher, 2004a:55.

Record.—*Bexar County*: Elm Springs Cave, no date (A. Grubbs), 1 immature.

Cicurina (Cicurella) sp. prob. *pampa*
Chamberlin and Ivie

Record.—*Bexar County*: Bob Wire Cave, 5 Aug. 1984 (A. Grubbs), 1 immature.

Cicurina (Cicurella) sp. prob. *vespera* Gertsch

Cicurina spp., probably *C. vespera*: Cokendolpher, 2004a:55.

Records.—*Bexar County*: Government Canyon Bat Cave, 24 May 1993 (J. Reddell, M. Reyes), 1 immature; 24 May 1998 (J. Reddell, M. Reyes), 2 immatures.

Cicurina (Cicurella) baronia Gertsch

Cicurina n. sp. (blind): Reddell, 1988:34 [part—Robber Baron Cave record only]; Veni, 1988:211.

Cicurina baronia Gertsch, 1992:106, 109, 118, figs. 89-90, 155-156; Cokendolpher, 2004a:38, figs. 9, 13, 16, 28-31.

Record.—*Bexar County*: Robber Baron Cave (Cokendolpher, 2004a).

Comment.—This troglobite is known only from this cave.

Cicurina (Cicurella) brunsi Cokendolpher

Cicurina brunsi Cokendolpher, 2004a:38-39, figs. 9, 13, 16, 32, 33.

Record.—*Bexar County*: Stahl Cave (Cokendolpher, 2004a).

Comment.—This troglobite is known only from this cave on Camp Bullis.

Cicurina (Cicurella) bullis Cokendolpher

Cicurina bullis Cokendolpher, 2004a:39-41, figs. 6, 9, 13, 16, 34-36.

Records.—*Bexar County*: Eagles Nest Cave; Hilger Hole; Isocow Cave; Platypus Pit; Root Canal Cave (Cokendolpher, 2004a).

Comment.—This species is known only from these four caves on Camp Bullis.

Cicurina (Cicurella) joya Gertsch

Cicurina joya Gertsch, 1992:81, 89, 97, chart 1, figs. 13-14.

Record.—*Comal County*: Brehmmer Cave (=Heidrich's Cave) (Gertsch, 1992).

Comment.—This 6-eyed species is known only from this cave.

Cicurina (Cicurella) loftini Cokendolpher

Cicurina loftini Cokendolpher, 2004a:41-42, figs. 5, 9, 10, 13, 16, 37-39.

Cicurina (Cicurella) spp. (troglóbite), Reddell, 1993:22, 47.

Records.—*Bexar County*: Caracol Creek Coon Cave; SBC Cave, TxDOT Loop 1604 right of way 3-4 km south of Caracol Creek Coon Cave (Cokendolpher, 2004a)

Comment.—This species is known only from these two caves.

Cicurina (Cicurella) madla Gertsch

Cicurina n. sp. (in part): Reddell, 1988:34.

Cicurina (Cicurella) spp. (troglóbite), Reddell, 1993:22, 50, 55, 64.

Cicurina madla Gertsch, 1992:109, figs. 91-92; Cokendolpher, 2004a:42-46, figs. 7-9, 13, 16, 40-47.

Cicurina n. sp.: Veni and Elliott, 1994: 7.

Records.—*Bexar County*: Christmas Cave; Headquarters Cave, Camp Bullis; Helotes Blowhole; Hills and Dales Pit; Lost Pothole (= Lost Pot); Madla's Cave; Madla's Drop Cave; Robber's Cave (Gertsch, 1992; Cokendolpher, 2004a).

Cicurina (Cicurella) neovespera Cokendolpher

Cicurina vespera Gertsch: Longacre, 2000:81419-81421, 81425, 81433 (in part).

Cicurina neovespera Cokendolpher, 2004a:9, 13, 16, 52, 53.

Records.—*Bexar County*: Elm Springs Cave (= Grubbs Cave ES); La Cantera Sink (=Grubbs Cave No. 23), 8 km NE Helotes (Cokendolpher, 2004a).

Cicurina (Cicurella) sp. prob. pampa
Chamberlin and Ivie

Records.—*Bexar County*: Bob Wire Cave; Goat Cave (Cokendolpher, 2004a); Mattke Cave (Reddell, 1993).

Comment.— These specimens are immature and cannot be identified for certain.

Cicurina (Cicurella) pampa
Chamberlin and Ivie

Cicurina sp. (eyed): Reddell, 1988:34.

Cicurina sp.: Veni, 1988:69.

Cicurina (Cicurella) sp. (?troglóphile), Reddell, 1993:22, 46.

Cicurina gatita Gertsch, 1992:91, 92, 94, figs. 27-28.

Cicurina pampa: Cokendolpher, 2004a:48-51, figs. 9, 11, 14, 54-60.

Records.—*Bexar County*: Black Cat Cave (Gertsch, 1991); Cherry Hollow Cave (20b) (=Cave No. 19), 6.9 km NE Helotes (Cokendolpher, 2004a); Cross the Creek Cave, Camp Bullis (Cokendolpher, 2004a); Karst Feature 471-4, 17 Jan. 2002 (L J. Graves), 2 females; Porcupine Squeeze Cave (=Grubbs Cave No. 189), 6.1 km NE Helotes (Cokendolpher, 2004a); Stone Oak Parkway Pit (Cokendolpher, 2004a); Up the Creek Cave, Camp Bullis (Cokendolpher, 2004a); Vera Cruz Shaft, Camp Bullis (Cokendolpher, 2004a).

Comment.—This six-eyed species is a troglóphile.

Cicurina (Cicurella) platypus Cokendolpher

Cicurina platypus Cokendolpher, 2004a:51-52, figs. 9, 13, 16, 61, 62.

Records.—*Bexar County*: Platypus Pit; MARS Pit (Cokendolpher, 2004a).

Comment.—This species is known only from these two caves on Camp Bullis.

Cicurina (Cicurella) puentecilla Gertsch

Cicurina sp.: Reddell, 1964:41.

Cicurina spp.: Reddell, 1965:168 [part—Natural Bridge Caverns record only].

Cicurina puentecilla Gertsch, 1992:106, 111, figs. 99-100.

Record.—*Comal County*: Natural Bridge Caverns (Gertsch, 1992).

Comment.—This species is known only from this cave.

Cicurina (Cicurella) reclusa Gertsch

Cicurina, blind: Reddell, 1964:34.

Cicurina spp.: Reddell, 1965:168 [part—Kappelman Salamander Cave record only].

Cicurina reclusa Gertsch, 1992:106, 111, figs. 97-98.

Records.—*Comal County*: Kappelman Cave (Gertsch, 1992); Kappelman Salamander Cave (Gertsch, 1992).

Comment.—This species is known only from these two nearby caves.

Cicurina (Cicurella) venii Gertsch

Cicurina n. sp. (blind): Reddell, 1988:34 [part—Braken Bat Cave record only]; Veni, 1988:74.

Cicurina venii Gertsch, 1992:106, 111, figs. 95-96; Cokendolpher, 2004a:52-53, figs. 9, 13, 16, 63, 64.

Record.—*Bexar County*: Braken Bat Cave (Gertsch, 1992; Cokendolpher, 2004a).

Comments.—This troglobite is known only from this cave. The only known specimen has apparently been lost and the cave entrance is now sealed.

Cicurina (Cicurella) vespera Gertsch

Cicurina spp.: Reddell, 1970:404 [part—Government Canyon Bat Cave record only].

Cicurina n. sp. (blind): Reddell, 1988:34 [part—Government Canyon Bat Cave record only]; Veni, 1988:141.

Cicurina vespera Gertsch, 1992:106, 111, figs. 93-94; Cokendolpher, 2004a:53, figs. 9, 13, 16, 65, 66.

Record.—*Bexar County*: Government Canyon Bat Cave, Government Canyon State Natural Area (Gertsch, 1992; Cokendolpher, 2004a).

Comment.—This endangered troglobite is known only from this cave.

Cicurina (Cicurusta) sp. prob. *varians*
Gertsch and Mulaik

Cicurina varians: Reddell, 1964:7; 1965:169-170 [part—Friesenhahn Cave, Madla's Cave, Bear Creek Cave, and Brehmmer Cave records only]; 1988:44; Veni, 1988:110, 129, 177, 181, 249.

Cicurina spp., presumably *C. varians*: Cokendolpher, 2004a:55 [in part].

Records.—*Bexar County*: Cave, site #301, Government Canyon Karst Fauna Region, Jan. 2000 (H. Bechtol, K. White), 2 immatures; Cave, site #801, west of Helotes, Nov. 1999 (K. White), 1 immature; Cave, site #802, west of Helotes, Nov. 1999 (K. White), 1 immature; 40 mm Cave, 5 Nov. 1993 (J. Reddell, M. Reyes), 6 immatures; 29 Nov. 1993 (J. Reddell, M. Reyes), 7 immatures; Backhole, 9 Sept. 1998 (J. Cokendolpher, J. Krejca), 1 immature; Bear Cave, 3 July 1968 (J. Reddell, A. R. Smith), 3 immatures (det. W. J. Gertsch) (AMNH); Bob Wire Cave, 5 Aug. 1984 (A. Grubbs), 2 immatures; Bone Pile Cave, 24 May 1998 (J. Reddell, M. Reyes), 1 immature; 12 Sept. 2001 (G. Veni), 1 immature; Canyon Ranch Shelf Cave, 9 Aug. 2002 (C. Collins, K. White), 1 immature; Caracol Creek Coon Cave, 26 Aug. 1987 (A. Cobb, S. Harden), 1 immature; Cave With A View, 1 June 1993 (J. Loftin, J. Reddell, M. Reyes, G. Veni), 1 immature; Cherry Hollow Cave (20b) (= Grubbs Cave #19), 4.3 mi. NE Helotes, 11 Oct. 1995 (A. Grubbs, G. Wade), 3 immatures; Chimney Cricket Cave, 14 June 2001 (J. Cokendolpher), 3 immatures; Christmas Cave, 6 Sept. 1993 (J. Reddell, M. Reyes), 1 immature; Crownridge Canyon Cave, 19 Nov. 2002 (J. Reddell, M. Reyes), 1 immature; Dirtwater Cave, 2 Aug. 1983 (J. Ivy, G. Veni), 2 immatures; Dos Viboras Cave, 14 Dec. 1994 (W. Elliott, G. McDaniel, Zone 1, 1 immature; Zone 3, 1 immature; 6 Oct. 1995 (J. Reddell, M. Reyes), 3 immatures; Firing Lane 11 Cave, 5 Oct. 1995 (J. Reddell, M. Reyes), 1 immature; Friesenhahn Cave, Oct. 1964 (T. Raines), 1 penultimate male (det. W. J. Gertsch) (AMNH); Hairy Tooth Cave, 21 Jan. 1994 (W. Elliott, J. Ivy, G. Veni), 1 immature; Hanging Rock Cave, 18 Nov. 1997 (G. Veni), 2 immatures; Haz Mat Pit, 8 Sept. 1998 (J. Reddell), 1 immature; 19 Nov. 2002 (J. Reddell, M. Reyes), 1 immature; Here Today, Gone Tomorrow Cave (Cokendolpher, 2004a); Holy Smoke Cave, 20 Feb. 2000 (G. Veni), 1 immature; 27 Sept. 2000 (C. Savvas),

1 immature; Isopit, 15 June 1993 (J. Loftin, J. Reddell, M. Reyes), 1 immature; Javalina Cave (=HPD Cave), 2 Nov. 2001 (H. Bechtol, K. White), 3 immatures; John Wagner Ranch Cave No. 3, 15 June 1993 (J. Loftin, J. Reddell, M. Reyes, G. Veni), 3 immatures; Karst Feature 10-75 (Cokendolpher, 2004a); Karst Feature 11B-57 (Cokendolpher, 2004a); Karst Feature 6A-41, 18 April 2001 (J. Reddell, M. Reyes), 1 immature; Karst Feature 11B-1, 23 March 1995 (B. Johnson), 1 immature; Karst Feature 471-4, 17 Jan. 2002 (L. J. Graves), 1 immature; La Cantera Cave No. 1 (=Cave #2001), UTSA Region, 23 May 2000 (S. Carothers, K. White), 1 immature; La Cantera Sink (=Grubbs Cave No. 23), 5 mi. NE Helotes, 2 Oct. 1995 (A. Grubbs), 3 immatures; Larsen's Pit, 26 Sept. 1995 (A. Grubbs), 1 immature; Lithic Ridge Cave, 1 Oct. 1994 (G. Atkinson, L. Palit), 1 immature; 4 June 1995 (G. Veni), 1 immature; 12 Sept. 2001 (G. Veni), 1 immature; Logan's Cave, 8 June 1993 (J. Loftin, J. Reddell, M. Reyes, G. Veni), 1 immature; Lost Mine Trail Cave, 2 May 2002 (C. Collins), 1 immature; Madla's Cave, 4 Oct. 1963 (D. McKenzie, J. Reddell), 4 immatures (det. W. J. Gertsch) (AMNH); 24 May 1993 (J. Reddell, M. Reyes), 1 immature; MARS Pit, 9 Oct. 1995 (J. Reddell, M. Reyes), Upper Level, 4 immatures; 10 Sept. 1998 (J. Cokendolpher, J. Krejca), lower level, 2 immatures; 10 Sept. 1998 (J. Reddell, M. Reyes), upper level, 2 immatures; Niche Cave, 31 July 1983 (G. Veni), 1 immature; Pain in the Glass Cave, 9 Oct. 1995 (J. Reddell, M. Reyes), 1 immature; Peanut Sink, 12 May 2001 (M. Warton), 3 immatures; Phil's Friggin Line Cave (Cave, site #803), west of Helotes, Nov. 1999 (K. White), 1 immature; Ponytail Pit, 4 Oct. 1995 (J. Reddell, M. Reyes), 1 immature; Poor Boy Baculum Cave, 15 Dec. 1994 (W. Elliott, B. Johnson), Zone 1, 3 immatures; Porcupine Squeeze Cave, 13 Oct. 1995 (A. Grubbs), 1 immature; Rattlesnake Cave, 19 July 1989 (A. Cobb), 1 immature; Root Toupee Cave, 1 Nov. 2000 (J. Reddell, M. Reyes), 1 immature; Scorpion Cave, 1 June 1993 (J. Loftin, J. Reddell, M. Reyes), 6 immatures; Sewer Line Karst Feature F-3, 16 Jan. 2002 (L. J. Graves), 1 immature; Sink Hole, 17 June 1993 (S. Harden, G. Veni), 5 immatures; Springtail Crevice, 9 June 2002 (J. Reddell, M. Reyes), 3 immatures; Stahl Cave, 21 April 1999 (J. Reddell, M. Reyes), 1 immature; Surprise Sink, 7 Oct. 1995 (A. Hill, G. Veni), 1 immature; 21 April 1996 (J. Kennedy, G. Veni, K. Veni), 1 immature; 24 May 1998 (J. Reddell, M. Reyes), 13 immatures; Stein Cave, 10 May 2001 (M. Warton), 1 immature; Sunray Cave (Grubbs Cave #18), 4 mi. NE Helotes, 13 Jan. 1995 (A. Grubbs), 2 immatures; Surprise Sink (Cokendolpher, 2004a); Three Fingers Cave, 22 June 1993 (J. Loftin, J. Reddell, M. Reyes), 9 immatures; Tin Pot, 6 March 2001 (G. Veni), 1 immature; 18 April 2001 (J. Reddell, M. Reyes), 3 immatures; Twin Pits, 13 Oct. 1985 (A. Cobb), 1 immature (det. W. J. Gertsch) (AMNH); Two Hit Cave, 30 March 1995 (J. Reddell, M. Reyes), 1 immature; Two

Raccoon Cave, 1 June 1993 (J. Loftin, J. Reddell, M. Reyes), 3 immatures; Voges Cave, 6 March 2001 (G. Veni), 1 immature; 17 April 2001 (J. Reddell, M. Reyes), 4 immatures; World News Cave, 14 July 1993 (J. Reddell, M. Reyes), 1 immature; Young Cave No. 1, 6 Sept. 1993 (J. Reddell, M. Reyes), 5 immatures.

Comal County: Bear Creek Cave, 24 Feb. 1963 (B. Russell), 2 immatures (det. W. J. Gertsch) (AMNH); Brehmmer's Cave, 13 July 1988 (A. Cobb), 1 immature (det. W. J. Gertsch) (AMNH); Calmbach Cave, 21 Aug. 1988 (A. Cobb, G. Veni), 1 immature (det. W. J. Gertsch) (AMNH); Camp Bullis Bad Air Cave, 23 Oct. 1996 (P. Sprouse, G. Veni), 1 immature; 23 Oct. 1996 (B. Johnson, J. Reddell, M. Reyes), Zone 1, 1 immature; Zone 2, 1 immature; Camp Bullis Bat Cave, 19 Nov. 1996 (W. Elliott), Zone 1, 1 immature; 21 Nov. 1996 (J. Ivy, A. Scott, G. Veni), 1 immature; Camp Bullis Cave No. 1, 22 Oct. 1996 (G. Veni), 2 immatures; 21 Nov. 1996 (B. Johnson, J. Reddell, M. Reyes), 1 immature; 21 Nov. 1996 (B. Johnson, J. Reddell, M. Reyes), Zone 2, 1 immature; Fischer Cave, 9 Oct. 1965 (D. McKenzie), 5 immatures (det. W. J. Gertsch) (AMNH); Lewis Cave, 7 July 1975 (W. Elliott), 2 immatures (det. W. J. Gertsch) (AMNH); Little Gem Cave, 19 Oct. 1963 (J. Porter, J. Reddell), 2 immatures (det. W. J. Gertsch) (AMNH).

Comments.—The only 8-eyed species of *Cicurina* recorded from Texas caves is *C. varians* and it is likely that all of these immatures belong to that species. Immatures collected in caves that also contain adult *C. varians* are listed below under that species.

Cicurina (Cicurusta) varians

Gertsch and Mulaik in Chamberlin and Ivie

Cicurina sp.: Kohls and Jellison, 1948:117.

Cicurina varians: Reddell, 1964:11, 16, 33, 34, 38, 41; 1965:169-170 [part—Bracken Bat Cave, Hitzfelder's Cave (=Hitzfelder's Bone Hole), Kappelman Salamander Cave, Klar's Cave, Little Gem Cave, and Natural Bridge Caverns records only]; 1970:404; 1988:34; Veni, 1988:55, 62, 141, 145, 146, 159, 169, 173, 211, 234, 263.

Cicurina spp., presumably *C. varians*: Cokendolpher, 2004a:55 [in part].

Records.—*Bexar County*: Assassin Cave, 18 Aug. 1985 (A. Cobb), 1 female, 1 immature (det. W. J. Gertsch) (AMNH); B-52 Cave, 6 Dec. 1994 (W. Elliott, J. Ivy), 4 immatures; 6 Dec. 1994 (W. Elliott, J. Ivy), Zone 1, 1 male, 1 female, 3 immatures; Zone 3, 1 female; 31 March 1995 (J. Reddell, M. Reyes), 1 female, 9 immatures; 10 Sept. 1998 (J. Cokendolpher, J. Krejca, J. Reddell, M. Reyes), 3 immatures; Banzai Mud Dauber Cave, 5 Dec. 1994 (C. Savvas, P. Sprouse), Zone 1, 3 immatures; 5

Oct. 1995 (J. Reddell, M. Reyes), Zones 1-2, 2 immatures; 10 Nov. 2000 (J. Krejca, P. Sprouse), 1 immature; 15 Nov. 2000 (J. Krejca, P. Sprouse), 1 male [matured 20 Jan. 2003], 1 female [matured 29 Oct. 2001], 2 immatures; Black Cat Cave, 28 Nov. 1982 (S. Harden, R. Waters), 4 immatures; 27 Jan. 1987 (J. Reddell, M. Reyes), 1 female (det. W. J. Gertsch) (AMNH); 2 Dec. 1984 (S. Harden, J. Ivy), 2 immatures; Boneyard Pit, 5 Dec. 1994 (R. Corbell, W. Elliott), Zone 2, 1 immature; 7 Sept. 1998 (J. Cokendolpher, J. Krejca), 1 female [matured 8 Dec. 1998]; Breached Dam Cave, 29 March 1995 (J. Reddell, M. Reyes), 6 immatures; 4 Oct. 1995 (J. Reddell, M. Reyes), 4 immatures; 8 Sept. 1998 (J. Reddell, M. Reyes), 1 female; 1 Nov. 2000 (J. Reddell, M. Reyes), 4 immatures; 11 July 2001 (J. Reddell, M. Reyes), 1 immature; Bunny Hole, 24 Oct. 1994 (J. Reddell, M. Reyes), 2 immatures; 31 March 1995 (J. Reddell, M. Reyes), 1 female, 1 immature; 9 Sept. 1998 (J. Cokendolpher, J. Krejca, J. Reddell, M. Reyes), 1 female [matured 4 Oct. 1999], 6 immatures; 2 Nov. 2001 (J. Reddell, M. Reyes), 5 immatures; Constant Sorrow Cave, 8 Feb. 2001 (L. J. Graves), 1 female; 6 March 2001 (G. Veni), 1 immature; Cross the Creek Cave, 22 March 1995 (B. Johnson), 1 immature; 31 March 1995 (J. Reddell, M. Reyes), 1 immature; 14 Nov. 1995 (J. Cokendolpher, J. Reddell, M. Reyes), 2 immatures, 3 females, 3 egg sacs; 6 Oct. 1995 (J. Reddell, M. Reyes), 9 immatures; 10 Sept. 1998 (J. Reddell, M. Reyes), 2 immatures; 21 April 1999 (J. Reddell, M. Reyes), 3 immatures; 31 Oct. 2000 (J. Reddell, M. Reyes), 1 female [matured 14 July 2001], 1 female [matured 3 Feb. 2001]; Dangerfield Cave, 23 March 1998 (J. Reddell), 4 immatures; 21 April 1999 (J. Reddell, M. Reyes), 1 male; 31 Oct. 2000 (J. Reddell, M. Reyes), 1 immature; Dogleg Cave, 22 March 1995 (B. Johnson), 1 female; 12 Nov. 1997 (P. Sprouse, G. Veni), 1 immature; 25 March 1998 (M. Reyes), 1 female, 1 immature; Eagles Nest Cave, 23 Oct. 1995 (J. Reddell, M. Reyes), 2 immatures; 6 Sept. 1998 (J. Reddell, M. Reyes), 2 immatures; 25 April 2000 (J. Reddell, M. Reyes), 2 immatures; 31 Oct. 2000 (J. Reddell, M. Reyes), 1 female [matured 25 Nov. 2002]; Glinn's Gloat Hole, 18 Jan. 2000 (J. Reddell, M. Reyes), 1 female; Goat Cave, 24 May 1998 (J. Reddell, M. Reyes), 1 female, 3 immatures; Berlese of leaf litter and bird nest, 24 May 1998 (J. Reddell, M. Reyes), 1 immature; Government Canyon Bat Cave, 11 Aug. 1965 (J. Fish, J. Reddell), 18 immatures (det. W. J. Gertsch) (AMNH); 24 May 1993 (J. Reddell, M. Reyes), 1 female, 13 immatures; 24 May 1998 (J. Reddell, M. Reyes), 4 immatures; Han's Grotto, 16 Feb. 1984 (D. Canny, S. Harden), 1 female; Headquarters Cave, 24 April 1966 (D. McKenzie, B. Russell), 1 female, 6 immatures (det. W. J. Gertsch) (AMNH); 16 June 1993 (S. Harden, J. Reddell, M. Reyes, G. Veni), 10 immatures; 29 Nov. 1993 (M. Reyes), 1 female, 3 immatures; Hector Hole, 11 April 2002 (J. Reddell, M. Reyes, G. Veni), 1 female [matured 20 Nov. 2002]; 15 April 2002 (J. Reddell, M. Reyes), 3 immatures; Hilger Hole, 15 Dec. 2000 (J. Reddell, M. Reyes), 1 female; 11 Nov. 1997 (G. Veni), 2 immatures; 7 Sept. 1998 (J. Reddell, M. Reyes), 1 female [matured 27 Nov. 1998], 5 immatures; 20 April 1999 (J. Reddell, M. Reyes), 3 immatures; Hills and Dales Pit, no date (H. Bechtol), 1 immature; 28 Oct. 2000 (H. Bechtol, K. White), 1 female [matured 29 Oct. 2001]; 17 Nov. 2000 (K. White), 1 immature; Hitzfelder's Bone Hole [=Hitzfelder's Cave], March 1965 (B. Russell), 1 female (det. W. J. Gertsch) (AMNH); Hold Me Back Cave, 1 Dec. 1993 (C. Savvas, G. Veni), 1 immature; 10 Nov. 2000 (J. Krejca, P. Sprouse), 1 male, 1 female [matured 20 Nov. 2002]; Hornet's Last Laugh Pit, 25 March 2002 (G. Veni), 1 female; Isocow Cave, 15 Dec. 1993 (G. Veni), 1 female, 2 immatures; 19 Sept. 1994 (W. Elliott), Zone 1, 1 immature; Kamikazi Cricket Cave, no date (A. Grubbs), 2 males, 1 immature; 3 Oct. 1984 (J. Ivy, G. Veni), 3 immatures; 19 Jan. 1986 (A. Cobb), 1 female (det. W. J. Gertsch) (AMNH); 10 June 1993 (J. Reddell, M. Reyes), 1 female, 6 immatures; Lone Gunman Pit, 23 Oct. 1997 (P. Sprouse, G. Veni), 2 immatures; 24 March 1998 (J. Reddell, M. Reyes), 1 immature; 14 Dec. 2000 (M. Reyes), 1 female; 1 Nov. 2001 (M. Reyes), 1 male; 19 Nov. 2002 (M. Reyes), 1 female [matured 20 Jan. 2003]; Low Priority Cave, 14 Dec. 1994 (C. Savvas), 2 immatures; 29 March 1995 (J. Reddell, M. Reyes), 1 immature; 4 Oct. 1995 (J. Reddell, M. Reyes), 1 immature; 8 Sept. 1998 (J. Cokendolpher, J. Reddell, M. Reyes), 1 female [matured 8 Dec. 1998]; 22 April 1999 (J. Reddell, M. Reyes), 1 female [matured 2 Oct. 2000]; 1 Nov. 2000 (J. Reddell, M. Reyes), 1 female [matured 25 Nov. 2002], 2 immatures; MARS Shaft, 9 Nov. 2000 (J. Krejca, P. Sprouse), 1 male [matured 25 Nov. 2002]; 25 Oct. 2001 (J. Krejca, P. Sprouse), 1 immature; Mattke Cave, 10 June 1993 (D. McKenzie, J. Reddell, M. Reyes), 2 females, 14 immatures; Max and Roberts Cave (SWCA cave site no. 3006, 3010), Culebra Anticline, 28 Sept. 2000 (H. Bechtol, K. White), 1 male, 1 female, 5 immature; One Formation Cave, 17 Jan. 1998 (G. Veni), 1 female; Peace Pipe Cave, 7 March 2001 (G. Veni), 1 female, 3 immatures; 17 April 2001 (J. Reddell, M. Reyes), 1 immature; Platypus Pit, 30 March 1995 (J. Reddell, M. Reyes), 1 female, 1 immature; 4 April 1996 (W. Elliott), Zone 1, 1 immature; Porcupine Parlor Cave, 29 March 2001 (G. Veni), 1 female, 1 immature; 18 April 2001 (J. Reddell, M. Reyes), 2 females, 5 immatures; Raging Cajun Cave, 22 Jan. 1994 (W. Elliott, J. Ivy, L. Palit, G. Veni), 1 male, 4 immatures; Robber Baron Cave, 26 Dec. 1980 (G. Veni), 1 male, 3 immatures (det. W. J. Gertsch) (AMNH); 11 Dec. 1982 (R. Waters), 1 male, 3 immatures; 6 April 1983 (R. Waters), 1 immature (det. W.

J. Gertsch) (AMNH); 9, 11 Dec. 1983 (S. Harden, R. Waters), 1 male, 1 immature; 21 Feb. 1986 (S. J. Harden), 1 female, 5 immatures (det. W. J. Gertsch) (AMNH); 14 Sept. 1986 (R. Waters), 1 female, 2 immatures (det. W. J. Gertsch) (AMNH); 8 March 1987 (J. Reddell, M. Reyes), 3 immatures (det. W. J. Gertsch) (AMNH); 22 May 1993 (J. Reddell, M. Reyes), 1 immature; 25 June 1993 (A. Grubbs, J. Reddell, M. Reyes), 1 immature; Robbers Cave, no date (A. Grubbs), 3 immatures; 22 June 1993 (J. Loftin, J. Reddell, M. Reyes), 1 female, 6 immatures; Root Canal Cave, 26 Oct. 1995 (J. Reddell, M. Reyes), 4 immatures; 7 Sept. 1998 (J. Reddell, M. Reyes), 1 male [matured 5 Dec. 1998], 2 immatures; 20 April 1999 (J. Reddell, M. Reyes), 1 immature; 26 Oct. 2001 (J. Krejca, P. Sprouse), 1 immature; Some Monk Chanted Evening Cave, 15 Oct. 1983 (L. Palit, G. Veni), 1 female; Stevens Ranch Cave No. 1, 1 June 1993 (J. Loftin, J. Reddell, M. Reyes, G. Veni), 1 female, 3 immatures; Stone Oak Parkway Pit, 27 Jan., 6 Feb. 1993 (A. Grubbs), 2 females; Strange Little Cave, 29 Nov. 1993 (J. Reddell, M. Reyes), 1 female, 3 immatures; 5 Oct. 1995 (J. Reddell, M. Reyes), 7 immatures; Tall Tales Cave, 13 Oct. 1999 (G. Veni), 1 immature; 12 Jan. 2000 (P. Sprouse), 2 females, 1 immature; Vera Cruz Shaft, 15 Oct. 2001 (M. Reyes), 1 female [matured 20 Jan. 2003], 1 immature; 19 Nov. 2002 (M. Reyes), 1 male, 1 female, 1 immature; Up the Creek Cave, 30 March 1995 (J. Reddell, M. Reyes), 2 females, 5 immatures; 5 Oct. 1995 (J. Reddell, M. Reyes), 7 immatures; 14 Nov. 1995 (J. Cokendolpher, J. Reddell, M. Reyes), 1 male; 10 Sept. 1998 (J. Cokendolpher, J. Krejca, J. Reddell, M. Reyes), 13 immatures; 20 Feb. 1999 (J. Reddell, M. Reyes), 3 immatures; Vera Cruz Shaft, 23 March 1998 (M. Reyes), 1 immature; 9 Sept. 1998 (J. Krejca, M. Reyes), 2 immatures; 22 April 1999 (M. Reyes), 1 female [matured 17 Oct. 2000]; 15 Oct. 2001 (M. Reyes), 1 female [matured 20 Jan. 2003], 1 immature; 19 Nov. 2002 (M. Reyes), 1 male, 1 female, 1 immature; Well Done Cave, 15 April 2002 (J. Reddell, M. Reyes, G. Veni), 4 females, 1 immature; Winston's Cave, 13-14 Dec. 1993 (J. Ivy, L. McNatt, G. Veni), 1 female; Wurzbach Bat Cave, 4-5 Jan. 1984 (S. Harden), 1 female, 6 immatures; 22 May 1993 (J. Loftin, J. Reddell, M. Reyes), 2 immatures.

Comal County: Bracken Bat Cave, 19 Jan. 1963 (D. McKenzie, J. Reddell), 1 male (det. W. J. Gertsch) (AMNH); 5 April 1983 (R. Waters), 2 immatures (det. W. J. Gertsch); Brehmer-Heidrich Cave, 19 Jan. 1963 (D. McKenzie), 1 male, 1 immature (det. W. J. Gertsch) (AMNH); Camp Bullis Cave No. 3, 21 Nov. 1996 (B. Johnson, J. Reddell, M. Reyes), 1 female, 1 immature; 29 Nov. 1996 (G. Veni), 2 females; Coreth Bat Cave, 28 Oct. 1995 (J. Reddell, M. Reyes), 2 males, 6 immatures; May 2000 (J. Krejca), 3 immatures; Ebert Cave, 30 Jan.

1988 (J. Reddell, M. Reyes); Fischer Cave (Reddell, 1970); Kappelman Cave, 15 March 1964 (J. Reddell, B. Russell), 1 female, 3 immatures (det. W. J. Gertsch) (AMNH); Kappelman Salamander Cave, 15 March 1964 (J. Reddell, B. Russell), 3 females, 2 immatures; Klar's Cave, April 1963 (B. Russell), 2 females (det. W. J. Gertsch) (AMNH); Little Gem Cave, 21 May 1965 (J. Reddell), 1 female, 2 immatures (det. W. J. Gertsch) (AMNH); Natural Bridge Caverns, 23 Feb. 1963 (D. McKenzie, J. Reddell), 1 female (det. W. J. Gertsch) (AMNH); 13 July 1963 (J. Reddell), 3 immatures (det. W. J. Gertsch) (AMNH); 23 Sept. 1989 (O. Knox, J. Reddell, M. Reyes), 1 immature; Startzville Bat Cave, 1983 (A.G. Grubbs), 1 female; Washington Cave, 21 Nov. 1996 (J. Reddell, M. Reyes), 1 female; Wyley's Cave, 21 Feb. 1988 (A. Cobb, J. Ivy, L. Palit, G. Veni), 1 female, 3 immatures; 25 Feb. 1988 (A. Cobb, G. Veni), 1 male.

Comments.—This species is present in caves throughout Central Texas and the Edwards Plateau. It builds tangled webs under rocks but can also be found actively crawling on the underside of rocks and in the open.

Dictyna sp.

Records.—*Bexar County*: Hornet's Last Laugh Pit, 3 June 2002 (J. Fant, C. Savvas), 1 female; Kick Start Cave, 30 May 2002 (G. McDaniel, C. Savvas), 1 immature.

Family Filistatidae
Filistatinella sp.

Record.—*Bexar County*: Record Fire 1 Cave, 30 Nov. 1993 (G. Veni), 1 male, 1 immature.

Comments.—The ecological status of this species is uncertain. The genus has been found in other Texas caves.

Family Gnaphosidae
Drassyllus sp.

Drassyllus sp.: Reddell, 1964:11; 1965:171; 1988:34; Veni, 1988:211.

Records.—*Comal County*: Bracken Bat Cave, 19 Jan. 1963 (D. McKenzie, J. Reddell), 4 subadult females (det. W. J. Gertsch) (AMNH); Robber Baron Cave (Reddell, 1988).

Comment.—This is an accidental.

Drassyllus gynosaphes Chamberlin

Record.—*Bexar County*: Backhole, 7 June 1994 (J. Ivy, G. Veni), 1 female.

Comment.—This is an accidental.

Scotophaeus blackwalli (Thorell)?

Herpyllus blackwalli: Eads, Wiseman, and Menzies, 1947:238; Reddell, 1964:11; 1965:171.

Record.—*Comal County*: Bracken Bat Cave (Eads, Wiseman, and Menzies, 1947).

Comments.—The identity of this cosmopolitan species should be verified. It has been reported from the entrance area of several bat caves in Central Texas; yet, in the revision of the genus, Platnick and Shadab (1977) listed no records for this genus from Texas.

Zelotes pseustes Chamberlin

Record.—*Bexar County*: Vera Cruz Shaft, 22 April 1999 (M. Reyes), 1 female.

Comment.—This is an accidental.

Family Hahniidae
Hahnia (?) sp.

Record.—*Bexar County*: Backhole, 20 Sept. 1994 (W. Elliott, J. Ivy), Zone 2, 1 immature.

Comment.—This specimen is too immature for further identification.

Hahnia sp.

Record.—*Comal County*: Washington Cave, Berlese of leaf litter, 21 Nov. 1996 (J. Reddell, M. Reyes), 1 immature.

Comment.—This genus is frequently found in leaf litter below cave entrances.

Hahnia flaviceps Emerton

Record.—*Bexar County*: Stone Oak Parkway Pit, 27 Jan., 6 Feb. 1993 (A. Grubbs), 1 female.

Neoantistea mulaiki Gertsch

Records.—*Bexar County*: Droll Cave, 2 June 1993 (J. Reddell, M. Reyes, G. Veni), 1 female; Obvious Little Cave, 14 June 2001 (J. Cokendolpher), 1 male.

Family Leptonetidae
Neoleptoneta spp.

Neoleptoneta sp.: Reddell, 1988:34; Veni, 1988:62, 173.
Neoleptoneta spp.: Cokendolpher, 2004b:65.

Records.—*Bexar County*: Bear Cave, 3 July 1968 (J. Reddell, A. R. Smith), 2 immatures (det. W. J. Gertsch) (AMNH); Breached Dam Cave, 4 Oct. 1995 (J. Reddell, M. Reyes), 2 immatures; 31 March 1995 (J. Reddell, M. Reyes), 1 immature; Constant Sorrow Cave (Cokendolpher, 2004b); Cross the Creek Cave (Cokendolpher, 2004b); Kamikazi Cricket Cave, 19 Jan. 1986 (S. J. Harden), 1 female (det. W. J. Gertsch) (AMNH); Lithic Ridge Cave, 1 Oct. 1994 (G. Atkinson, L. Palit), 1 immature; Madla's Drop Cave, 8 June 1993 (J. Loftin, J. Reddell, M. Reyes, G. Veni), 1 male; Young Cave No. 1, 6 Sept. 1993 (J. Reddell, M. Reyes), 1 male.

Comal County: Deepwater Cave, 19 Oct. 1985 (A. Cobb), 1 female (det. W. J. Gertsch) (AMNH).

Comment.—Specimens from these caves (except Cross the Creek Cave which may be *N. bullis*) appear to represent one or more undescribed species.

Neoleptoneta bullis Cokendolpher

Neoleptoneta bullis Cokendolpher, 2004b:65-68, figs. 1-9.

Record.—*Bexar County*: Up the Creek Cave (Cokendolpher, 2004b).

Comments.—This species is known only from this cave. It possesses small eyes but may be troglotic.

Neoleptoneta coeca
(Chamberlin and Ivie)

Leptoneta sp.: Reddell, 1964:41.

Leptoneta spp.: Reddell, 1965:172.

Leptoneta coeca Chamberlin and Ivie, 1942:10, 84-85, fig. 9; Reddell, 1965:172; Gertsch, 1974:165, 167, 169, 170-171, figs. 50, 80, 67-68.

Neoleptoneta coeca: Cokendolpher, 2004b:64.

Records.—*Comal County*: Brehmmer Cave (Chamberlin and Ivie, 1942); Natural Bridge Caverns, 2 Sept. 1978 (A.G. Grubbs), 1 female, 1 immature (det. W. J. Gertsch as *Leptoneta*) (AMNH); 23 Sept. 1989 (O. Knox, J. Reddell, M. Reyes), 1 female lacking abdomen) (det. W. J. Gertsch) (AMNH).

Comments.—Brehmmer Cave is the correct name for Heidrich Cave used by Chamberlin and Ivie (1942). The specimens collected from Natural Bridge Caverns

have not been re-examined but are presumably this species.

Neoleptoneta microps (Gertsch)

Leptoneta spp.: Reddell, 1970:405.

Leptoneta microps Gertsch, 1974:165, 169, 172-173, figs. 53, 77.

Neoleptoneta microps: Reddell, 1988:34; Veni, 1988:141; Cokendolpher, 200b:64.

Record.—*Bexar County*: Government Canyon Bat Cave (Gertsch, 1974).

Comment.—This endangered species is a troglolite.

Family Linyphiidae

Undetermined genus and species

Linyphiidae unidentified genus and species: Reddell, 1970:405.

Linyphiidae undetermined genus and species: Reddell, 1988:34.

Linyphiidae genus and species: Veni, 1988:249.

Records.—*Bexar County*: B-52 Cave, 6 Dec. 1994 (W. Elliott, J. Ivy), Zone 2, 1 immature; Black Cat Cave, 8 March 1987 (J. Reddell, M. Reyes), 2 immatures; Cave of the Skinny Snake, 2 June 1993 (J. Loftin, G. Veni), 1 immature; Dos Viboras Cave, 6 Oct. 1995 (J. Reddell, M. Reyes), 1 immature; Eagles Nest Cave, 5 April 1996 (W. Elliott), Zone 3, 1 immature; Zone 4, 1 immature; Flying Buzzworm Cave, 9 Jan. 1995 (J. Reddell, M. Reyes), 1 immature; Goat Cave, 24 May 1998 (J. Reddell, M. Reyes), 1 male; Berlese of leaf litter and bird nest, 24 May 1998 (J. Reddell, M. Reyes), 1 immature; Government Canyon Bat Cave, 24 May 1993 (J. Reddell, M. Reyes), 1 immature; Haz Mat Pit, 24 March 1998 (J. Reddell, M. Reyes), 1 immature; Isopit, 15 June 1993 (J. Loftin, J. Reddell, M. Reyes), 1 immature; Madla's Cave, 24 May 1993 (J. Reddell, M. Reyes), Berlese of litter, 8 immatures; MARS Cave, 29 March 1995 (J. Reddell, M. Reyes), 1 immature; Scorpion Cave, 1 June 1993 (J. Loftin, J. Reddell, M. Reyes), 1 immature; Two Raccoon Cave, 1 June 1993 (J. Loftin, J. Reddell, M. Reyes), 1 immature; Underwater Cave, 30 July 1983 (G. Veni, R. Waters), 1 immature; Wurzbach Bat Cave, 22 May 1993 (J. Loftin, J. Reddell, M. Reyes), 1 immature; 22 May 1993 (J. Reddell, M. Reyes), Berlese of litter, 4 immatures.

Comal County: Rittiman Cave (Reddell, 1970); Snake Skin Pit, 19 Nov. 1996 (W. Elliott), 1 immature.

Comment.—The material is too immature to permit further identification.

Agyneta (?) sp.

Records.—*Bexar County*: Eagles Nest Cave, 15 Nov. 1993 (J. Ivy, L. McNatt, G. Veni), 2 immatures; 15 March 1994 (J. Ivy), Zone 3, 1 immature; Lone Gunman Pit, 10 Oct. 1997 (P. Sprouse, G. Veni), 1 immature; Wurzbach Bat Cave, 22 May 1993 (J. Loftin, J. Reddell, M. Reyes), 1 female.

Agyneta sp.

Meioneta sp.: Reddell, 1964:34; 1965:173; 1970: 406; 1988:35; Veni, 1988:64, 69, 90, 169.

Records.—*Bexar County*: Bear Cave, 3 July 1968 (J. Reddell, A. R. Smith), 2 females (det. W. J. Gertsch as *Meioneta* sp.) (AMNH); Black Cat Cave, 28 Nov. 1982 (S. Harden, R. Waters), 1 female (det. W. J. Gertsch as *Meioneta*) (AMNH); Cave, site #601, Stone Oak Karst Region north of Loop 1604 and U.S. 281 intersection, 12 Sept. 1999 (K. White), 5 immatures; Christmas Cave, 25 Dec. 1982 (R. Waters), 1 male (det. W. J. Gertsch as *Meioneta*) (AMNH); Elm Springs Cave (Reddell, 1988); Flying Buzzworm Cave, 9 Jan. 1995 (J. Reddell, M. Reyes), 1 immature; Forked Pit, 13 June 1993 (J. Loftin, S. Woods), 1 female; Game Pasture Cave No. 1, 2 June 1993 (J. Loftin, J. Reddell, M. Reyes, G. Veni), 1 female; Government Canyon Bat Cave, 11 Aug. 1965 (J. Fish, J. Reddell), 1 female (det. W. J. Gertsch as *Meioneta*) (AMNH); Holy Smoke Cave, 27 Sept. 2000 (C. Savvas), 2 immatures; Isopit Cave (Reddell, 1988); Max and Roberts Cave (=SWCA cave site no. 3008), Culebra Anticline, 28 Sept. 2000 (H. Bechtol, K. White), 1 immature; Rattlesnake Cave, 19 July 1989 (A. Cobb), 2 males, 6 females, 1 immature (det. W. J. Gertsch as *Meioneta*) (AMNH); Wurzbach Bat Cave, 4-5 Jan. 1984 (S. Harden), 2 males, 2 females (det. W. J. Gertsch as *Meioneta*) (AMNH).

Comal County: Bad Weather Pit, 3 Sept. 1972 (R. Fieseler), 1 female (det. W. J. Gertsch as *Meioneta*) (AMNH); Fischer's Cave, 14 July 1989 (A. Grubbs, A.H., C.T.), 1 male, 6 females (det. W. J. Gertsch as *Meioneta*) (AMNH); Kappelman Cave, 9 March 1968 (J. Reddell), 1 female (det. W. J. Gertsch as *Meioneta*) (AMNH); Kappelman Salamander Cave, 15 March 1964 (J. Reddell, B. Russell) (det. W. J. Gertsch as *Meioneta*) (AMNH); Klar's Cave (Reddell, 1965); Wyley's Cave, 23 Feb. 1988 (A. Cobb, G. Veni), 1 female (det. W. J. Gertsch as *Meioneta*) (AMNH).

Comments.—Specimens identified by W. J. Gertsch as *Meioneta* and many of the immatures likely belong to *A. llanoensis*. Further study will be required for confirmation.

Agyneta llanoensis (Gertsch and Davis)

Records.—*Bexar County*: Cave, site #602, Stone Oak Karst Region north of Loop 1604 and U.S. 281 intersection, 12 Sept. 1999 (K. White), 1 female, 1 immature; Cave, site #603, Stone Oak Karst Region north of Loop 1604 and U.S. 281 intersection, 12 Sept. 1999 (K. White), 1 female; B-52 Cave, 6 Dec. 1994 (W. Elliott, J. Ivy), 1 male; 10 Sept. 1998 (J. Cokendolpher, J. Krejca, J. Reddell, M. Reyes), 1 male, 2 females, 1 immature; Bunny Hole, 24 Oct. 1994 (J. Reddell, M. Reyes), 2 females, 2 immatures; 31 March 1995 (J. Reddell, M. Reyes), 1 female; 9 Sept. 1998 (J. Cokendolpher, J. Krejca, J. Reddell, M. Reyes), 2 males, 4 females; Cannonball Cave, 6-7 Nov. 2001 (P. Sprouse), 1 female, 1 immature; 21 Nov. 2001 (J. Reddell, M. Reyes), 1 female; 15 April 2002 (J. Reddell, M. Reyes, G. Veni), 1 female, 1 immature; Dangerfield Cave, 5 Dec. 1997 (G. Veni), 1 female; 25 Jan. 1999 (P. Sprouse, G. Veni), 1 male, 3 females, 1 immature; 21 April 1999 (J. Reddell, M. Reyes), 7 females; 31 Oct. 2000 (J. Reddell, M. Reyes), 3 males, 3 females, 2 immatures; Dogleg Cave, 25 March 1998 (M. Reyes), 1 male, 2 females; Droll Cave, 2 June 1993 (J. Reddell, M. Reyes, G. Veni), 1 female; Eagles Nest Cave, 9 Nov. 1993 (J. Ivy, J. Treviño, G. Veni), 1 female; Elm Springs Cave, no date (A. Grubbs), 1 male, 1 female, 1 immature; Elm Water Hole Cave, 10-11 May 2000 (M. Reyes), 2 females; Government Canyon Bat Cave, 24 May 1998 (J. Reddell, M. Reyes), 2 males, 2 females; Hairy Tooth Cave, 21 Jan. 1994 (W. Elliott, J. Ivy, G. Veni), 3 males; King Toad Cave, 1 June 1993 (J. Loftin, M. Reyes), 1 female; Linda's First Cave (Find), 13 June 1993, L. Loftin, J. Loftin, W. Woods), 1 female; Lone Gunman Pit, 8 Sept. 1998 (J. Cokendolpher, M. Reyes), 1 female; 21 April 1999 (J. Reddell, M. Reyes), 1 female [matured 15 June 1999]; Low Priority Cave, 29 March 1995 (J. Reddell, M. Reyes), 1 female, 1 immature; Max and Roberts Cave (=SWCA cave site No. 3007), Culebra Anticline, 28 Sept. 2000 (H. Bechtol, K. White), 1 female; Meusebach Flats Cave, 21 Nov. 1997 (G. Veni), 1 male; Obvious Little Cave, 14 June 2001 (J. Cokendolpher), 1 male, 1 female; Peace Pipe Cave, 7 March 2001 (G. Veni), 1 female; 17 April 2001 (J. Reddell, M. Reyes), 1 female; Porcupine Parlor Cave, 29 March 2001 (G. Veni), 1 female; 18 April 2001 (J. Reddell, M. Reyes), 2 immatures; Raging Cajun Cave, no date (A. Grubbs), 1 female; Root Canal Cave, 7 Sept. 1998 (J. Reddell, M. Reyes), 2 immatures; 20 April 1999 (J. Reddell, M. Reyes), 1 male; 26 Oct. 2001 (J. Krejca, P. Sprouse), 1 female; Root Toupee Cave, 1 Nov. 2000 (J. Reddell, M. Reyes), 1 male, 3 females; Stevens Ranch Trash Hole Cave, 12 June 1993 (J. Loftin), 1 male, 2 females; Strange Little Cave, 29 Nov. 1993 (J. Reddell, M. Reyes), 1 male, 3

females, 1 immature; 5 Oct. 1995 (J. Reddell, M. Reyes), 1 male, 1 immature; SWCA Cave No. 3, 20 Sept. 2000 (K. White), 2 females; Tin Pot, 6 March 2001 (G. Veni), 1 male; 18 April 2001 (J. Reddell, M. Reyes), 2 males, 2 immatures; Wurzbach Bat Cave, 22 May 1993 (J. Loftin, J. Reddell, M. Reyes), 1 female, 2 immatures; 25 June 1993 (D. Bowles, A. Grubbs, J. Reddell, M. Reyes, R. Stanford), 1 female; Yellow Ball Cave, 7 Dec. 1999 (P. Sprouse, G. Veni), 1 female; 17 June 2000 (J. Reddell, M. Reyes), 1 female, 1 immature.

Comal County: Camp Bullis Cave No. 1, 22 Oct. 1996 (G. Veni), 2 males, 1 female, 1 immature; Ebert Cave, 30 Jan. 1988 (J. Reddell, M. Reyes), 1 female; Snakeskin Pit, 1 Nov. 1996 (P. Sprouse, G. Veni), 2 females; 19 Nov. 1996 (W. Elliott), Zone 2, 1 female.

Comments.—This species is extremely abundant in caves throughout Central Texas. It is usually found hanging from webs on cave walls.

Eperigone sp.

Eperigone sp.: Reddell, 1988:34-35.

Records.—*Bexar County*: Isopit, 1984 (R. Waters), 1 male, 1 female (det. W. J. Gertsch) (AMNH); Stealth Cave, 29 Oct. 1997 (P. Sprouse, G. Veni), 2 females, 2 immatures.

Comment.—The material will require further study.

Eperigone albula Zorsch and Crosby

Records.—*Bexar County*: Bob Wire Cave, 8.4 miles NW Helotes, 5 Aug. 1994 (A. G. Grubbs), 1 male, 1 immature; Eagles Nest Cave, 9 Nov. 1993 (J. Ivy, J. Treviño, G. Veni), 1 female; 20 April 1999 (J. Reddell, M. Reyes), 1 male, 20 females, 19 immatures; Elm Water Hole Cave, 10-11 May 2000 (M. Reyes), 2 females; Leon Hill Cave, 24 May 2003 (J. Reddell, M. Reyes), 1 female; Record Fire 1 Pit, 18 Nov. 1993 (J. Ivy, J. Treviño, G. Veni), 1 female; Toad Cave, no date (A. G. Grubbs), 1 male; Up the Creek Cave, 22 April 1999 (J. Reddell, M. Reyes), 1 male.

Comal County: Washington Cave, 21 Nov. 1996 (J. Reddell, M. Reyes), 1 female.

Comment.—This tiny spider is most often obtained in Berlese extraction of leaf litter from the caves (Cokendolpher and Buckle, 2004).

Eperigone maculata (Banks)

Records.—*Bexar County*: Backhole, 20 Sept. 1994 (W. Elliott, J. Ivy), Zone 2, 1 male, 2 immatures; Haz Mat Pit, 30 April 2003 (J. Reddell, M. Reyes), 1 female;

Kamikazi Cricket Cave, no date (A. Grubbs), 3 females, 1 immature; Madla's Cave, 24 May 1993 (J. Reddell, M. Reyes), Berlese of litter, 1 female; Madla's Drop Cave, 8 June 1993 (J. Loftin, J. Reddell, M. Reyes, G. Veni), 1 female; Persimmon Pit, no date (A. Grubbs), 1 female, 1 immature; Stevens Ranch Cave No. 1, 1 June 1993 (J. Loftin, J. Reddell, M. Reyes, G. Veni), 2 females; Stone Oak Parkway Pit, 27 Jan., 6 Feb. 1993 (A. Grubbs), 1 male, 1 female, 4 immatures.

Comal County: Camp Bullis Bad Air Cave, 23 Oct. 1996 (P. Sprouse, G. Veni), 1 female; Washington Cave, 21 Nov. 1996 (J. Reddell, M. Reyes), 1 female.

Comment.—This species is frequently found as a troglophile in Texas caves.

Erigone n. sp.

Record.—*Bexar County*: Young Cave No. 1, 6 Sept. 1993 (J. Reddell, M. Reyes), 1 female.

Comment.—This is a blind species.

Family Liocranidae
Phrurotimpus sp.

Records.—*Bexar County*: Raging Cajun Cave, 22 Jan. 1994 (W. Elliott, J. Ivy, L. Palit, G. Veni), 1 immature; Wurzbach Bat Cave, 22 May 1993 (J. Loftin, J. Reddell, M. Reyes), 1 female.

Comment.—This is an accidental.

Scotinella sp.

Record.—*Bexar County*: Record Fire 1 Cave, 30 Nov. 1993 (G. Veni), 1 male.

Comments.—The identity of this species will require further study. It is an accidental.

Family Lycosidae
Undetermined genus and species

Records.—*Bexar County*: Constant Sorrow Cave, 8 Feb. 2001 (G. Veni), 1 immature; Obvious Little Cave, 14 June 2001 (J. Cokendolpher), 1 immature.

Comal County: Python Pit, 12 March 1988 (M. Ulmer, G. Veni), 1 immature.

Comment.—This material is too immature to allow further identification.

Pardosa sp.

Record.—*Bexar County*: Georg's Hole, 25 Oct. 1996 (G. Veni), 2 immatures; 10 Nov. 1996 (B. Johnson), Zone 1, 1 immature.

Comment.—This is an accidental.

Pirata davisii Wallace and Exline

Pirata sp.: Reddell, 1970:406.

Pirata davisii Wallace and Exline, 1978:87-89, figs. 181-186; Reddell, 1988:35; Veni, 1988:77.

Records.—*Bexar County*: Bullis Hole (Reddell, 1970), 6 Oct. 1996 (G. Veni), 1 female, 1 immature; 20 Nov. 1996 (W. Elliott), Zone 2, 2 immatures.

Comment.—This is an accidental.

Rabidosa rabida (Walckenaer)

Records.—*Bexar County*: Backhole, 7 June 1994 (J. Ivy, G. Veni), 1 immature; Linda's First Cave (Find), 13 June 1993 (J. Loftin, L. Loftin, S. Woods), 1 immature; Obvious Little Cave, 14 June 2001 (J. Cokendolpher), 1 female.

Comal County: Bain's Cave, 19 & 25 July 1987 (A. Cobb, J. Ivy, L. Palit, G. Veni), 1 female.

Comment.—This accidental is occasionally found in cave entrance areas.

Schizocosa saltatrix (Hentz)

Schizocosa saltatrix: Reddell, 1988:35; Veni, 1988:81, 83.

Records.—*Bexar County*: Ailor Hill Cave, 24 May 2003 (J. Reddell, M. Reyes), 1 female; Cave of the Bearded Tree, April 1982 (G. Veni), 1 male; Cave of the Half-Snake, April 1982 (G. Veni), 1 female.

Comment.—This accidental is occasionally found in cave entrance areas.

Family Miturgidae
Teminius affinis Banks

Records.—*Bexar County*: Backhole, 7 June 1994 (J. Ivy, G. Veni), 1 female; Banzai Mud Dauber Cave, 5 Dec. 1994 (C. Savvas, P. Sprouse), 1 immature; Hornet's Last Laugh Pit, 9 June 2002 (J. Reddell, M. Reyes), 1 immature; Power Pole 60 Feature, 30 April 2003 (J. Reddell, M. Reyes, G. Veni), 1 female; Strange Little Cave, 5 Oct. 1995 (J. Reddell, M. Reyes), 1 immature.

Comments.—The immatures are probably this species because it is the only member of the genus from this region. The ecological status of this species is unknown, but it has been found in several caves in Central Texas.

Family Nesticidae
Eidmannella sp.

Records.—*Comal County*: Bad Weather Pit (det. W. J. Gertsch) (AMNH); Python Pit, 12 March 1988

(M. Ulmer, G. Veni), 1 immature (det. W. J. Gertsch) (AMNH); Natural Bridge Caverns, 23 Sept. 1989 (O. Knox, J. Reddell, M. Reyes), 1 female (det. W. J. Gertsch) (AMNH); 1 March 1990 (O. Knox, J. Reddell, M. Reyes), 1 female (det. W. J. Gertsch) (AMNH).

Comments.—The specimens from Natural Bridge Caverns have the eyes reduced and may belong to *E. rostrata*.

Eidmannella sp. (blind)

Nesticus, blind species: Reddell, 1964:33.

Nesticus sp.: Reddell, 1965:174 [part—Kappelman Cave record only].

Records.—*Bexar County*: Madla's Cave, 7 June 1969 (R. Bartholomew), 1 female (det. W. J. Gertsch as *Nesticus pallidus*) (AMNH).

Comal County: Double Decker Cave, 5 Feb. 1978 (G. Darilek, T. Mills, D. Montgomery), 1 penultimate male (det. W. J. Gertsch) (AMNH); Kappelman Cave, 9 March 1968 (J. Reddell), 2 immatures (det. W. J. Gertsch as *Nesticus pallidus*) (AMNH); Tall Tales Cave, 17 Jan. 2000 (J. Reddell, M. Reyes), 1 immature.

Comment.—This material may belong to *E. rostrata*.

Eidmannella sp. prob. *pallida* Emerton

Records.—*Bexar County*: Dos Viboras Cave, Zone 2, 14 Dec. 1994 (W. Elliott, G. McDaniel), 1 immature; Zone 3, 1 immature; Hills and Dales Pit, Nov. 2000 (K. White), 1 immature; SARA Site 4 Cave, 17 Nov. 1993 (G. Veni), 1 immature; 6 June 1994 (J. Ivy, G. Veni), 1 immature; Stealth Cave, 25 Jan. 2000 (J. Reddell, M. Reyes), 1 immature; 14 Dec. 2000 (J. Reddell, M. Reyes), 3 immatures; Vera Cruz Shaft, 15 Dec. 2000 (M. Reyes), 1 immature.

Comal County: Coreth Bat Cave, 28 Oct. 1995 (J. Reddell, M. Reyes), 2 immatures.

Eidmannella pallida Emerton

Nesticus pallidus: Reddell, 1970:407 [part—Government Canyon Bat Cave record only].

Eidmannella pallida: Gertsch, 1984:54-60, 89-90, figs. 249-280, map 8; Reddell, 1988:35 [all records except Headquarters Cave]; Veni, 1988:141, 253; Cokendolpher and Reddell, 2001:27-28.

Eidmannella rostrata: Reddell, 1988:35 [misidentification; part—Dirtwater Cave record only]; Veni, 1988:110 [misidentification].

Records.—*Bexar County*: Cave site #303, Government Canyon Karst Fauna Region, Jan. 2000 (H. Bechtol,

K. White), 1 female; Cave site #305, west of Helotes (Cokendolpher and Reddell, 2001); Cave site #701, west of Helotes, 1999 (K. White), 1 male, 4 females, 5 immatures; Alligator Lizard Cave (=Wren Cave), 8.3 mi. NW Helotes (Cokendolpher and Reddell, 2001); Black Cat Cave, 27 Jan. 1987 (J. Reddell, M. Reyes), 2 penultimate males (det. W. J. Gertsch) (AMNH); Caracol Creek Coon Cave, 26 Aug. 1987 (A. Cobb, S. Harden), 2 females (det. W. J. Gertsch) (AMNH); Dirtwater Cave, 2 Aug. 1983 (J. Ivy, G. Veni), 1 immature; I Think It's A Cave, 16 July 1987 (J. Ivy, G. Veni), 1 female (det. W. J. Gertsch) (AMNH); Kamikazi Cricket Cave (Cokendolpher and Reddell, 2001); Max and Roberts Cave (SWCA no. 3007, 3008), Culebra Anticline, 28 Sept. 2000 (H. Bechtol, K. White), 3 females, 1 immature; Persimmon Pit, no date (A. Grubbs), 1 male, 1 immature; Porcupine Squeeze Cave (=Grubbs Cave No. 189), 6.1 km NE Helotes (Cokendolpher and Reddell, 2001); Robber Baron Cave (Cokendolpher and Reddell, 2001); SARA Site 4 Cave (Cokendolpher and Reddell, 2001); Stealth Cave, Camp Bullis (Cokendolpher and Reddell, 2001); Stevens Ranch Cave No. 1 (Cokendolpher and Reddell, 2001); Toad Cave, no date (A. Grubbs), 1 male; Voight's Bat Cave (Cokendolpher and Reddell, 2001); Young Cave No. 1 (Cokendolpher and Reddell, 2001).

Comal County: Bender's Cave, 17 July 1966 (J. Reddell, W. Russell), 1 immature (det. W. J. Gertsch) (AMNH); Brehmmer Cave (=Heidrich's Cave) (Gertsch, 1984); Coreth Bat Cave (Cokendolpher and Reddell, 2001); Grosser's Cave, 9 April 1967 (S. Fowler) (det. W. J. Gertsch) (AMNH).

Comments.—This species is extremely abundant in caves throughout Texas and parts of Mexico. It is a troglophile usually found hanging from webs along cave walls.

Eidmannella sp. prob. *rostrata* Gertsch

Eidmannella sp. [prob. *rostrata*]: Cokendolpher and Reddell, 2001:26.

Records.—*Bexar County*: Dirtwater Cave (Cokendolpher and Reddell, 2001); Dos Viboras Cave (Cokendolpher and Reddell, 2001); Georg's Hole, Zone 1, 10 Nov. 1996 (B. Johnson), 1 immature; Glinn's Gloat Hole (Cokendolpher and Reddell, 2001); Jabba's Giant Sink (Cokendolpher and Reddell, 2001); Madla's Cave, 7 June 1969 (R. Bartholomew), 1 female (det. W. J. Gertsch as *Nesticus pallidus*) (AMNH); Obvious Little Cave, 14 June 2001 (J. Cokendolpher), 1 immature; Root Toupee Cave, 1 Nov. 2000 (J. Reddell, M. Reyes), 1 immatures; Stevens Ranch Cave No. 1 (Cokendolpher and Reddell, 2001); Two Hit Cave (Cokendolpher and Reddell, 2001).

Comal County: Camp Bullis Cave No. 1 (Cokendolpher and Reddell, 2001); Camp Bullis Cave No. 3 (Cokendolpher and Reddell, 2001); Double Decker Cave, 5 Feb. 1978 (G. Darilek, T. Mills, D. Montgomery), 1 penultimate male (det. W. J. Gertsch (AMNH)); Kappelman Cave, 9 March 1968 (J. Reddell), 2 immatures (det. W. J. Gertsch as *Nesticus pallidus*) (AMNH); Tall Tales Cave (Cokendolpher and Reddell, 2001).

Eidmannella rostrata Gertsch

Nesticus sp.: Reddell, 1965:174 [part—Madla’s Cave, Hitzfelder’s Cave (Hitzfelder’s Bone Hole), and Klar’s Cave records only]; Reddell, 1970:407.

Nesticus pallidus: Reddell, 1970:407 [misidentification; part—Headquarters Cave record only].

Eidmannella rostrata Gertsch, 1984:60-61, 91, figs. 281-283, map 9; Reddell, 1988:35; Veni, 1988:74, 83, 121, 150, 158, 169, 177, 190, 211, 263; Cokendolpher and Reddell, 2001:28-31, fig. 1.

Eidmannella pallida: Reddell, 1988:35 [misidentification; part—Headquarters Cave record only]; Veni, 1988:146 [misidentification].

Records.—*Bexar County*: Backhole (Cokendolpher and Reddell, 2001); Banzai Mud Dauber Cave (Cokendolpher and Reddell, 2001); Bone Pile Cave, Government Canyon State Natural Area (Cokendolpher and Reddell, 2001); Braken Bat Cave, 22 Nov. 1980 (G. Veni), 1 penultimate male, 1 female (det. W. J. Gertsch) (AMNH); Breached Dam Cave (Cokendolpher and Reddell, 2001); Bullis Hole, Camp Bullis (Cokendolpher and Reddell, 2001); Caracol Creek Coon Cave (Cokendolpher and Reddell, 2001); Cave of the Bearded Tree, April 1982 (G. Veni), 1 female (det. W. J. Gertsch) (AMNH); Cave of the Half-Snake (Cokendolpher and Reddell, 2001); Charley’s Cute Little Hole (Cokendolpher and Reddell, 2001); Cross the Creek Cave (Cokendolpher and Reddell, 2001); Eagles Nest Cave (Cokendolpher and Reddell, 2001); F-150 Cave, 11 April 2002 (J. Reddell, M. Reyes, G. Veni), 1 female; Fair Hole (Gertsch, 1984); Flach’s Cave (Cokendolpher and Reddell, 2001); Flying Buzzworm Cave (Cokendolpher and Reddell, 2001); Game Pasture Cave No. 1 (Cokendolpher and Reddell, 2001); Georg’s Hole (Cokendolpher and Reddell, 2001); Government Canyon Bat Cave, Government Canyon State Natural Area (Cokendolpher and Reddell, 2001); Headquarters Cave (Cokendolpher and Reddell, 2001); Hector Hole, 11 April 2002 (J. Reddell, M. Reyes, G. Veni), 2 females, 1 immature; 15 April 2002 (J. Reddell, M. Reyes), 1 male, 1 female, 2 immatures; Helotes Blowhole (Cokendolpher and Reddell, 2001); Hitzfelder’s Bone Hole [=Hitzfelder’s Cave]

(Gertsch, 1984); Hold Me Back Cave (Cokendolpher and Reddell, 2001); Isocow Cave (Cokendolpher and Reddell, 2001); Isopit (Cokendolpher and Reddell, 2001); Low Priority Cave (Cokendolpher and Reddell, 2001); Madla’s Cave (Gertsch, 1984); MARS Shaft (Cokendolpher and Reddell, 2001); Mattke Cave (Cokendolpher and Reddell, 2001); Max and Roberts Cave (=SWCA no. 3007, 3008, 3009), Culebra Anticline, 28 Sept. 2000 (H. Bechtol, K. White), 5 males, 16 females, 4 immatures; SWCA no. 3011, 28 Sept. 2000 (H. Bechtol, K. White), 2 females; Poison Ivy Pit (Cokendolpher and Reddell, 2001); Robber Baron Cave (Cokendolpher and Reddell, 2001); Root Canal Cave, 7 Sept. 1998 (J. Reddell, M. Reyes), 1 male [matured 5 Dec. 1998]; Scenic Overlook Cave (=Cave site #2101), Government Canyon Karst Fauna Region (Cokendolpher and Reddell, 2001); Stahl Cave (Cokendolpher and Reddell, 2001); Sunray Cave (=Cave No. 18), 4 mi. NE Helotes (Cokendolpher and Reddell, 2001); Surprise Sink, Government Canyon State Natural Area (Cokendolpher and Reddell, 2001); Up the Creek Cave (Cokendolpher and Reddell, 2001); Winston’s Cave (Cokendolpher and Reddell, 2001); Wurzbach Bat Cave (Cokendolpher and Reddell, 2001).

Comal County: Badweather Pit (Gertsch, 1984); Bain’s Cave, 19 and 25 July 1987 (A. Cobb, J. Ivy, L. Palit, G. Veni), 3 females (det. W. J. Gertsch) (AMNH); Bender’s Cave (Cokendolpher and Reddell, 2001); Camp Bullis Bad Air Cave (Cokendolpher and Reddell, 2001); Camp Bullis Bat Cave (Cokendolpher and Reddell, 2001); Camp Bullis Cave No. 1 (Cokendolpher and Reddell, 2001); Camp Bullis Cave No. 3 (Cokendolpher and Reddell, 2001); Ebert Cave (Cokendolpher and Reddell, 2001); Grosser’s Cave (=Grosser’s-Saur’s Sink) (Cokendolpher and Reddell, 2001); Just Now Cave (Cokendolpher and Reddell, 2001); Klar’s Cave (Cokendolpher and Reddell, 2001); Knee Deep Cave, 9 Aug. 1984 (S. Harden), 1 immature (det. W. J. Gertsch); 5 May 1985 (J. Reddell, M. Reyes), 1 male, 1 female, 3 immatures; Natural Bridge Caverns (Cokendolpher and Reddell, 2001); Preserve Cave, Honey Creek Preserve (Cokendolpher and Reddell, 2001); Snakeskin Pit (Cokendolpher and Reddell, 2001); Strosser’s Sink (Gertsch, 1984); Wiley’s Cave (Cokendolpher and Reddell, 2001).

Comments.—This species is abundant in the caves of south Central Texas. It is usually found hanging from cave walls. Considerable diversity in the degree of eye development may indicate that more than one species is now listed under this species.

Gaucelmus augustinus Keyserling

Gaucelmus augustinus: Kohls and Jellison, 1948:117; Reddell, 1964:16; 1965:174; 1970:406; Gertsch,

1984:6-11, 70-71, figs. 2-11, 15-16, 23-25, map 1; Reddell, 1988:35; Veni, 1988:267; Cokendolpher and Reddell, 2001:26.

Records.—*Bexar County*: Holy Smoke Cave, 20 Feb. 2000 (G. Veni), 2 females; Lost Pot Hole, Wurzbach Bat Cave, Young Cave No. 1 (Cokendolpher and Reddell, 2001b).

Comal County: Dierk Cave No. 1 (Reddell, 1970; Gertsch, 1984); Brehmmer Cave (=Heidrich's Cave) (Reddell, 1965; Gertsch, 1984); Coreth Bat Cave; Ebert Cave, Fischer Pit (Cokendolpher and Reddell, 2001b); Little Cave (Gertsch, 1984).

Comment.—This troglophile is frequently found in the caves of Texas and northern Mexico.

Family Pholcidae
Modisimus texanus Banks

Modisimus texanus: Reddell, 1988:35; Veni, 1988:181, 190, 258.

Records.—*Bexar County*: Boneyard Pit, 5 Dec. 1994 (R. Corbell, W. Elliott), Zone 1, 1 female, 1 immature; Bullis Hole, 6 Oct. 1996 (G. Veni), 2 males; Linda's First Cave (Find), 13 June 1993 (J. Loftin, L. Loftin, S. Woods), 1 immature; Niche Cave, 31 July 1983 (G. Veni), 1 female (det. W. J. Gertsch) (AMNH); NBC Cave, 15 Dec. 1993 (J. Ivy, L. McNatt, G. Veni), 1 female, 1 immature; Niche Cave, 31 July 1983 (G. Veni); Obvious Little Cave, 14 June 2001 (J. Cokendolpher), 1 female; Poison Ivy Pit, 15 Aug. 1981 (K. Menking, E. Short, G. Veni, R. Waters), 2 females; Record Fire 1 Cave, 30 Nov. 1993 (G. Veni), 2 females; World Newt Cave, 22 Nov. 1980 (G. Veni), 2 females (det. W. J. Gertsch) (AMNH); Wurzbach Bat Cave, 30 Jan. 1988 (A. Grubbs), 1 immature (det. W. J. Gertsch) (AMNH).

Comal County: Bender's Cave, 13 Sept. 1987 (D. Arburn, A. Cobb), 1 male (det. W. J. Gertsch) (AMNH); Brehmmer's Cave, 13 July 1988 (A. Cobb), 1 male (det. W. J. Gertsch) (AMNH); Just Now Cave, 14 Nov. 1996 (P. Sprouse, G. Veni), 1 male; Klar's Cave, 30 Jan. 1988 (M.K. Manning), 1 male (det. W. J. Gertsch) (AMNH).

Comment.—The immatures are probably this species because it is the only member of this genus recorded from the region.

Family Salticidae
Plexippus sp. prob. *paykulli* (Audouin)
Record.—*Bexar County*: Wurzbach Bat Cave, 22 May 1993 (J. Reddell, M. Reyes), Berlese of litter, 1 immature.

Comment.—This is an accidental.

Family Scytodidae
Scytodes sp.

Records.—*Bexar County*: Eagles Nest Cave, 20 April 1999 (J. Reddell, M. Reyes), 1 immature; Valley of Death Cave, 29 March 1994 (J. Reddell, M. Reyes), 1 female.

Scytodes intricata Banks

Record.—*Bexar County*: Strange Little Cave, 5 Oct. 1995 (J. Reddell, M. Reyes), 1 male, 2 immatures.

Comment.—This is probably an accidental.

Family Sicariidae
Loxosceles sp.

Record.—*Bexar County*: Record Fire 1 Cave, 30 Nov. 1993 (G. Veni), 2 immatures.

Loxosceles reclusa Gertsch and Mulaik

Loxosceles reclusa: Reddell, 1988:35.

Record.—*Bexar County*: Roan's Cave, 29 Sept. 1984 (J. Ivy, G. Veni), 1 female.

Comment.—The poisonous brown recluse spider is occasionally found in Texas caves.

Family Tetragnathidae
Undetermined genus and species

Record.—*Bexar County*: Meusebach Flats Cave, 21 Nov. 1997 (G. Veni), 1 immature.

Comment.—This is an accidental.

Leucauge venusta (Walckenaer)
Leucauge venusta: Reddell, 1970:404.

Record.—*Comal County*: Little Gem Cave (Reddell, 1970).

Comment.—This species is an accidental.

Tetragnatha sp.

Tetragnatha sp.: Reddell, 1964:18; 1965:170.

Records.—*Bexar County*: Haz Mat Pit, 24 March 1998 (J. Reddell, M. Reyes), 1 immature.

Comal County: Camp Bullis Cave No. 1, April 1963 (B. Russell), 1 immature (det. W. J. Gertsch) (AMNH).

Comment.—This species is an accidental.

Family Theridiidae
Undetermined genus and species

Record.—*Bexar County*: Cave of the Bee Spirits, 24 April 1983 (R. Waters), 1 immature.

Comment.—This immature is too young for further identification.

Achaearanea? sp.

Record.—*Comal County*: Camp Bullis Cave No. 1, 25 Jan. 2000 (J. Reddell, M. Reyes), 1 immature.

Comment.—This immature was too young for positive identification.

Achaearanea sp. prob. *porteri* (Banks)

Records.—*Bexar County*: Breached Dam Cave, 4 Oct. 1995 (J. Reddell, M. Reyes), 1 immature; Bullis Hole, 26 Oct. 1996 (G. Veni), 1 immature; Porcupine Squeeze Cave (=Grubbs Cave No. 189), 6.1 km NE Helotes, 12 Jan. 1995 (A. Grubbs, N. Lake, G. Wade), 4 immatures; Cave of the Skinny Snake, 2 June 1993 (J. Loftin, G. Veni), 1 immature; Constant Sorrow Cave, 6 March 2001 (G. Veni), 1 immature; F-150 Cave, 11 April 2002 (J. Reddell, M. Reyes, G. Veni), 1 immature; Flying Buzzworm Cave, 17 Nov. 1997 (P. Sprouse, G. Veni), 1 immature; Get A Rope Cave, 23 Sept. 2000 (G. Veni), 3 immatures; Hornet's Last Laugh Pit, 9 June 2002 (J. Reddell, M. Reyes), 2 immatures; Ides of March Cave, 15 April 2002 (M. Reyes, G. Veni), 1 immature; John Wagner Ranch Cave No. 3, 15 June 1993 (J. Loftin, J. Reddell, M. Reyes, G. Veni), 2 immatures; Record Fire 1 Pit, 18 Nov. 1993 (J. Ivy, J. Treviño, G. Veni), 1 immature; Robber Baron Cave, 21 Feb. 1986 (S. J. Harden), 2 immatures (det. W. J. Gertsch) (AMNH); Root Canal Cave, 26 Oct. 1995 (J. Reddell, M. Reyes), 1 immature; Stone Oak Parkway Pit, 27 Jan., 6 Feb. 1993 (A. Grubbs), 2 immatures; Surprise Sink, 24 May 1998 (J. Reddell, M. Reyes), 1 immature; Two Raccoon Cave, 1 June 1993 (J. Loftin, J. Reddell, M. Reyes), 1 immature.

Comal County: Kappelman Cave, 9 March 1968 (J. Reddell), 1 immature (det. W. J. Gertsch) (AMNH).

Achaearanea porteri (Banks)

Achaearanea porteri: Reddell, 1964:41; 1965:176; 1988:35; Veni, 1988:55, 64, 82, 110, 169, 173, 251, 258, 263, 267.

Records.—*Bexar County*: Cave, site #301, Government Canyon Karst Fauna Region, Jan. 2000 (H. Bechtol, K. White), 1 male; Cave, site #306, Govern-

ment Canyon Karst Fauna Region, Jan. 2000 (H. Bechtol, K. White), 1 male, 1 immature; 40 mm Cave, 29 Nov. 1993 (J. Ivy, J. Reddell, M. Reyes), 1 female, 2 immatures; 5 Nov. 1995 (J. Reddell, M. Reyes), 1 immature; Assassin Cave, 18 Aug. 1985 (A. Cobb), 1 female, 1 immature (det. W. J. Gertsch) (AMNH); Banzai Mud Dauber Cave, 10 Nov. 2000 (J. Krejca, P. Sprouse), 1 immature; 15 Nov. 2000 (J. Krejca, P. Sprouse), 1 female; Bear Cave, 3 July 1968 (J. Reddell, A. R. Smith), 1 female; Boneyard Pit, 5 Dec. 1994 (R. Corbell, W. Elliott), Zone 1, 1 female, 1 immature; 7 Sept. 1998 (J. Cokendolpher, J. Krejca), 1 immature; Bunny Hole, 9 Sept. 1998 (J. Cokendolpher, J. Krejca, J. Reddell, M. Reyes), 1 female; Cave of the Bee Spirits (Reddell, 1988); Charley's Hammer Hole, 9 Jan. 1995 (M. Reyes), 1 female; Cross the Creek Cave, 10 Sept. 1998 (J. Reddell, M. Reyes), 2 females; 31 Oct. 2000 (J. Reddell, M. Reyes), 1 immature; Dirtwater Cave, 2 Aug. 1983 (J. Ivy, G. Veni), 1 female, 1 immature; Dos Viboras Cave, 14 Dec. 1994 (W. Elliott, G. McDaniel), Zone 1, 1 female; Eagles Nest Cave, 9 Nov. 1993 (J. Ivy, J. Treviño, G. Veni), 2 females; 15 Nov. 1993 (J. Ivy, L. McNatt, G. Veni), 2 females; 15 March 1994 (W. Elliott, J. Ivy), Zone 1, 2 females, 1 immature; 15 March 1994 (W. Elliott), Zone 2, 1 female, 1 immature; 23 Oct. 1995 (J. Reddell, M. Reyes), 1 female; Goat Cave, 24 May 1998 (J. Reddell, M. Reyes), 2 females; Government Canyon Bat Cave, 24 May 1993 (J. Reddell, M. Reyes), 1 male, 2 females; 24 May 1998 (J. Reddell, M. Reyes), 2 females; Hairy Tooth Cave, 21 Jan. 1994 (W. Elliott, J. Ivy, G. Veni), 1 female; Headquarters Cave, 8 Sept. 1998 (J. Cokendolpher, J. Reddell, M. Reyes), 1 female; Hogan's Cave, 21 May 1994 (G. Veni), 1 female; Holy Smoke Cave, 20 Feb. 2000 (G. Veni), 2 females; 7 March 2001 (G. Veni), 2 females; Isocow Cave, 1 female; Isopit, March 1983 (E. Short), 1 female, 1 immature; 15 June 1983 (J. Loftin, J. Reddell, M. Reyes), 1 immature; Kamikazi Cricket Cave, 3 Oct. 1984 (J. Ivy, G. Veni), 1 female; Lithic Ridge Cave, 4 June 1995 (G. Veni), 1 immature; 12 Sept. 2001 (G. Veni), 2 females, 2 immatures; Mattke Cave, 10 June 1993 (D. McKenzie, J. Reddell, M. Reyes), 1 female; Phil's Friggin Line Cave (Cave, site #803), west of Helotes, Nov. 1999 (K. White), 1 male; Poor Boy Baculum Cave, 19 Oct. 1994 (J. Ivy, G. Veni), 1 male; 15 Dec. 1994 (W. Elliott, B. Johnson), 1 immature; Porcupine Parlor Cave, 29 March 2001 (G. Veni), 2 males, 3 females, 5 immatures; Raging Cajun Cave, 22 Jan. 1994 (W. Elliott, J. Ivy, L. Palit, G. Veni), 1 female; Rattlesnake Cave, 19 July 1989 (A. Cobb), 2 females, 1 immature; Scorpion Cave, 1 June 1993 (J. Loftin, J. Reddell, M. Reyes), 1 female; Stevens Ranch Cave No. 1, 1 June 1993 (J. Loftin, J. Reddell, M. Reyes, G. Veni), 1 female; Strange Little Cave, 29 Nov. 1993 (J. Reddell, M. Reyes), 1 male, 2 females, 3 immatures;

5 Oct. 1995 (J. Reddell, M. Reyes), 3 females; Tall Tales Cave, 10 Feb. 2000 (G. Veni), 1 female; 12 March 2000 (P. Sprouse), 1 immature; Three Fingers Cave, 22 June 1993 (J. Loftin, J. Reddell, M. Reyes), 1 male, 1 immature; Tin Pot, 6 March 2001 (G. Veni), 2 females; Unknown Cave, 13 Sept. 1984 (S. Harden, G. Veni), 1 female, 1 immature; Up the Creek Cave, 10 Sept. 1998 (J. Cokendolpher, J. Krejca, J. Reddell, M. Reyes), 1 female, 1 immature; Valley of Death Cave, 29 March 1994 (J. Reddell, M. Reyes), 1 male; Well Done Cave, 15 April 2002 (J. Reddell, M. Reyes, G. Veni), 1 female, 1 immature; World Newt Cave, 22 Nov. 1980 (G. Veni), 2 females (det. W. J. Gertsch) (AMNH); Young Cave No. 1, 6 Aug. 1983 (J. Ivy, G. Veni), 1 female; 6 Sept. 1993 (J. Reddell, M. Reyes), 1 female.

Comal County: Little Bear Creek Cave, 30 Jan. 1988 (C. Biegert, C. Grant, P. Jauk, D. McKenzie, P. Reavely), 1 female (det. W. J. Gertsch) (AMNH); Natural Bridge Caverns, 13 July 1963 (J. Reddell) (det. W. J. Gertsch) (AMNH).

Comments.—This troglophile has been found in caves throughout Texas. Although most frequently found hanging from webs near cave entrances, it may also live in the dark zone.

Achaearanea tepidariorum (Koch)

Achaearanea tepidariorum: Reddell, 1988:35; Veni, 1988:211.

Record.—*Bexar County*: Robber Baron Cave, 26 Dec. 1980 (G. Veni), 1 female, 1 immature (det. W. J. Gertsch) (AMNH).

Comment.—This species is occasionally found hanging from webs near cave entrances.

Argorydes sp.

Record.—*Bexar County*:?Ailor Hill Cave, 26 May 2003 (B. Shade, G. Venni), 1 immature; John Wagner Ranch Cave No. 3, 15 June 1993 (J. Loftin, J. Reddell, M. Reyes, G. Veni), 1 immature.

Comment.—This is probably an accidental.

Dipoena abdita Gertsch and Mulaik

Record.—*Bexar County*: Firing Lane 11 Cave, 5 Oct. 1995 (J. Reddell, M. Reyes), 1 female.

Comment.—This is probably an accidental.

Latrodectus sp.

Latrodectus sp.: Reddell, 1988:35.

Record.—*Bexar County*: Black Widow Pit (Reddell, 1988).

Comment.—This is a sight record.

Latrodectus mactans (Fabricius)

Latrodectus mactans: Kohls and Jellison, 1948:17; Reddell, 1964:37; 1965:177.

Records.—*Bexar County*: Strange Little Cave, 29 Nov. 1993 (J. Reddell, M. Reyes), 1 female.

Comal County: Little Brehmer-Heidrich Cave (Kohls and Jellison, 1948).

Comment.—Black widow spiders are occasionally found hanging from webs near cave entrances.

Steatoda sp.

Steatoda sp.: Reddell, 1988:35; Veni, 1988:83.

Record.—*Bexar County*: Cave of the Half-Snake, April 1982 (G. Veni), 1 immature (det. W. J. Gertsch) (AMNH).

Comment.—This is probably an accidental.

Tidarren sp. prob. *sisyphoides* (Walckenaer)

Record.—*Bexar County*: Valley of Death Cave, 29 March 1994 (J. Reddell, M. Reyes), 1 immature.

Tidarren sisypoides (Walckenaer)

Records.—*Bexar County*: B. J. Pit, 22 June 1993 (J. Loftin), 1 female; Bone Pile Cave, 29 Sept. 1996 (G. Veni), 1 female; Buzzard Egg Cave, 29 March 1995 (J. Reddell, M. Reyes), 1 female, 1 immature; Cave of the Skinny Snake, 2 June 1993 (J. Loftin, G. Veni), 2 females; Eagles Nest Cave, 9 Sept. 1998 (J. Reddell, M. Reyes), 2 females; Haz Mat Pit, 8 Sept. 1998 (J. Reddell), 1 female; John Wagner Ranch Cave No. 3, 15 June 1993 (J. Loftin, J. Reddell, M. Reyes, G. Veni), 1 female; Logan's Cave, 8 June 1993 (J. Loftin, J. Reddell, M. Reyes, G. Veni), 1 female; Lost Mine Trail Cave, 17 June 1993 (J. Reddell, M. Reyes), 1 female; Winston's Cave, 21 Sept. 1994 (W. Elliott, J. Ivy), Zone 1, 1 female; World News Cave, 14 July 1993 (J. Reddell, M. Reyes), 1 female, 1 immature.

Comment.—This species is frequently found hanging from webs in the entrance area of caves.

Family Thomisidae

Undetermined genus and species

Record.—*Bexar County*: Cave of the Bearded Tree, April 1982 (G. Veni), 1 female (det. W. J. Gertsch) (AMNH).
Comment.—This is an accidental.

Xysticus sp.

Record.—*Bexar County*: Sharron Spring, 6 Nov. 2000 (J. Krejca, P. Sprouse), 1 immature.
Comment.—This specimen was taken from a mophead placed in the mouth of the spring.

Xysticus ferox (Hentz)

Xysticus ferox: Reddell, 1988:35; Veni, 1988:81.

Record.—*Bexar County*: Cave of the Bearded Tree (Reddell, 1988).
Comment.—This is an accidental.

Xysticus funestus Keyserling

Record.—*Bexar County*: Lone Gunman Pit, 1 Nov. 2001 (M. Reyes), 1 male.
Comment.—This is an accidental.

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