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Paul Mayer, Editor

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ABSTRACT

An atlas for 113 terrestrial isopods (40 genera, 17 families) reported from North America north of Mexico is presented based on records in the literature. These records indicate that 76 (67.3%) are native to this region. Province and state checklists are generated based on the literature citations for the first records from these provinces and states. A map for each species presents a preliminary, visual summary of its distribution.

INTRODUCTION

Several comprehensive works have been produced in the last century which summarized information about North American terrestrial isopods. Richardson (1905) covered marine, terrestrial, and freshwater species in her still useful Monograph on the Isopods of North America. Van Name (1936) provided a compilation of descriptions and illustrations for all American land and freshwater isopods, followed by two supplements (1940, 1942). Hatch's "Chelifera and Isopoda of Washington and adjacent regions" (1947) included a summary of distribution records for North America. Leistikow and Wagele (1999) reviewed the New World terrestrial species in their recent checklist. In their analysis of the origins of American oniscideans, Jass and Klausmeier (2000) summarized distribution records for the area north of Mexico.

However, North American terrestrial isopods are still poorly known. To facilitate future research, this atlas draws together information about these oniscideans from the recent literature as well as older sources. The sources of illustrations given can assist workers with the identification of collected specimens. Reference to province and state checklists and the preliminary maps of distribution focus on these past records and show where new range information is to be expected.

The atlas consists of four sections. The first is a taxonomic listing of all terrestrial isopod species with records in the literature from North America north of Mexico. The second section is an alphabetical list of species and focuses chiefly on providing sources of diagnostic illustrations in the literature, to assist future workers who may be interested in identifying and more completely documenting the presence of terrestrial isopods in North America. The third section gives species lists for each province and state, with the first citation from the literature documenting the presence there of each species. Finally, Canadian and United States (U.S.) maps present a visual summary of the current records.

These species lists and maps give only a very preliminary picture of actual distributions because of the limited amount of collecting upon which they are based. One of the goals of our publication is to draw attention to gaps in the published records of the past and encourage others to extend known ranges and to fill in or confirm distributional gaps with more intensive and more widespread collecting efforts.

SECTION I: CLASSIFICATION AND SUMMARY

The classification used is that of Holdich et al. (1984). For more taxonomic information including lists of synonyms, see Leistikow and Wagele's (1999) important checklist of New World terrestrial isopods and the World List of Terrestrial Isopods that appears on the Smithsonian Institution's National Museum of Natural History (NMNH) website [<http://www.nmnh.si.edu/iz/isopod/>]. In their Introduction to the February 1, 2001 update of the World List, its compilers emphasize the uncertain state of taxonomy for the entire group of

oniscideans and point out especially the lack of sufficient records from Canada and the contiguous United States. These shortcomings mean that the species listed and the scope of the records for distribution given here should be expected to undergo many changes in the future.

Order ISOPODA, Suborder ONISCIDEA Latreille, 1829 (113)
(107 species, 5 subspecies, 1 variety)

I. Infraorder TYLOMORPHA Vandel, 1943 (5 spp.)

Family TYLIDAE Milne Edwards, 1840 (5 spp.)

- Tylos latreillei* Audouin, 1826
- Tylos marcuzzii* Giordani Soika, 1954
- Tylos niveus* Budde-Lund, 1885
- Tylos punctatus* Holmes and Gay, 1909
- Tylos wegeneri* Vandel, 1952

II. Infraorder LIGIAMORPHA Vandel, 1943 (102 spp., 5 ssp., 1 var.)

1. Section DIPLOCHETA Vandel, 1957 (13 spp., 4 ssp., 1 var.)

Family LIGIIDAE Brandt and Ratzeburg, 1831 (13 spp., 4 ssp., 1 var.)

- Ligia baudiniana* H. Milne Edwards, 1840
- Ligia exotica* Roux, 1828
- Ligia occidentalis* Dana, 1853
- Ligia oceanica* (Linnaeus, 1767)
- Ligia pallasii* Brandt, 1833
- Ligidium blueridgensis* Schultz, 1964
- Ligidium elrodii* (Packard, 1873)
- Ligidium elrodii chatoogaensis* Schultz, 1970
- Ligidium elrodii hancockensis* Schultz, 1970
- Ligidium elrodii leensis* Schultz, 1970
- Ligidium elrodii scottensis* Schultz, 1970
- Ligidium floridanum* Schultz and Johnson, 1984
- Ligidium gracile* (Dana, 1856)
- Ligidium gracile* var. *flavum* Jackson, 1923
- Ligidium kofoidi* Maloney, 1930
- Ligidium lapetum* Mulaik and Mulaik, 1942
- Ligidium latum* Jackson, 1923
- Ligidium mucronatum* Mulaik and Mulaik, 1942

2. Section SYNOCHETA Legrand, 1946 (29 spp., 1 ssp.)

i) Superfamily TRICHONISCOIDEA Sars, 1899 (28 spp., 1 ssp.)

Family TRICHONISCIDAE Sars, 1899 (28 spp., 1 ssp.)

- Amerigoniscus centralis* Vandel, 1978
- Amerigoniscus curvatus* Vandel, 1978
- Amerigoniscus georgiensis* Vandel, 1978
- Amerigoniscus gipsocolus* (Vandel, 1965)
- Amerigoniscus henroti* (Vandel, 1950)
- Amerigoniscus malheurensis* Schultz, 1982
- Amerigoniscus nicholasi* (Vandel, 1965)
- Amerigoniscus proximus* Vandel, 1978

- Amerigoniscus rothi* (Vandel, 1953)
Androniscus dentiger Verhoeff, 1908
Brackenridgia cavernarum Ulrich, 1902
Brackenridgia heroldi (Arcangeli, 1932)
Brackenridgia reddelli (Vandel, 1965)
Brackenridgia sphinxensis Schultz, 1984
Haplophthalmus danicus Budde-Lund, 1879
Hyloniscus riparius (Koch, 1838)
Miktoniscus barri Vandel, 1965
Miktoniscus halophilus Blake, 1931
Miktoniscus mammothensis Muchmore, 1964
Miktoniscus medcofi Van Name, 1940
Miktoniscus morganensis Schultz, 1976
Miktoniscus oklahomensis Vandel, 1965
Miktoniscus racovitzai racovitzai Vandel, 1950
Oregoniscus nearcticus (Arcangeli, 1932)
Trichoniscoides sarsi Patience, 1908
Trichoniscus orchidicola Mulaik, 1960
Trichoniscus pusillus Brandt, 1833
Trichoniscus pusillus ssp. *provisorius* Racovitza, 1908
Trichoniscus pygmaeus Sars, 1899
- ii) Superfamily STYLONISCOIDEA Vandel, 1952 (1 sp.)
 Family STYLONISCIDAE Vandel, 1952 (1 sp.)
Cordioniscus stebbingi (Patience, 1907)
3. Section CRINOCHEETA Legrand, 1946 (59 spp.)
- i) Superfamily ONISCOIDEA Latrielle, 1806 (28 spp.)
 Family HALOPHILOSCIIDAE Verhoeff, 1908 (1 sp.)
Halophiloscia couchii (Kinahan, 1858)
- Family ONISCIDAE Latreille, 1806 (1 sp.)
Oniscus asellus Linnaeus, 1758
- Family PHILOSCIIDAE Kinahan, 1857 (9 spp.)
Atlantoscia floridana (Van Name, 1940)
Floridoscia fusca Schultz and Johnson, 1984
Littorophiloscia culebrae (Moore, 1901)
Littorophiloscia richardsonae (Holmes and Gay, 1909)
Littorophiloscia tropicalis Taiti and Ferrara, 1986
Littorophiloscia vittata (Say, 1818)
Philoscia geiseri Van Name, 1936
Philoscia muscorum (Scopoli, 1763)
Philoscia spinosa Say, 1818
- Family PLATYARTHRIIDAE Verhoeff, 1949 (7 spp.)
Niambia capensis (Dollfus, 1895)
Platyarthrus aiasensis Legrand, 1954
Platyarthrus hoffmannseggii Brandt, 1833
Trichorhina donaldsoni Schultz, 1963
Trichorhina heterophthalma Lemos de Castro, 1964

- Trichorhina tomentosa* Budde-Lund, 1893
Trichorhina triocis Mulaik and Mulaik, 1943
- Family RHYSCOTIDAE Budde-Lund, 1904 (1 sp.)
Rhyscotus texensis (Richardson, 1905)
- Family SCYPHACIDAE Dana, 1852 (8 spp.)
Alloniscus mirabilis (Stuxberg, 1875)
Alloniscus perconvexus Dana, 1856
Armadilloniscus coronacapitalis Menzies, 1950
Armadilloniscus ellipticus (Harger, 1878)
Armadilloniscus holmesi Arcangeli, 1933
Armadilloniscus lindahli (Richardson, 1905)
Detonella papillicornis (Richardson, 1904)
Scyphacella arenicola Smith, 1873
- Family STENONISCIDAE Budde-Lund, 1904 (1 sp.)
Stenoniscus pleonalis Aubert and Dollfus, 1890
- ii) Superfamily PORCELLIONOIDEA Brandt, 1831 (32 spp.)
- Family ARMADILLIDAE Brandt and Ratzeburg, 1831 (11 spp.)
Armadillo affinis (Dana, 1856)
Armadillo speciosus Stuxberg, 1875
Cubaris murina Brandt, 1833
Venezillo apacheus (Mulaik and Mulaik, 1942)
Venezillo arizonicus (Mulaik and Mulaik, 1942)
Venezillo californicus (Budde-Lund, 1885)
Venezillo chamberlini (Mulaik and Mulaik, 1942)
Venezillo microphthalmus (Arcangeli, 1932)
Venezillo parvus (Budde-Lund, 1885)
Venezillo pisum (Budde-Lund, 1885)
Venezillo tanneri (Mulaik and Mulaik, 1942)
- Family ARMADILLIDIIDAE Brandt, 1833 (2 spp.)
Armadillidium nasatum Budde-Lund, 1885
Armadillidium vulgare (Latreille, 1804)
- Family BALLONISCIDAE Vandel, 1963 (2 spp.)
Balloniscus brevicornis (Budde-Lund, 1885)
Balloniscus nigricans (Budde-Lund, 1885)
- Family CYLISTICIDAE Verhoeff, 1949 (1 spp.)
Cylisticus convexus (DeGeer, 1778)
- Family PORCELLIONIDAE Brandt and Ratzeburg, 1831 (14 spp.)
Agabiformius lentus (Budde-Lund, 1885)
Agabiformius pusillus (Budde-Lund, 1885)
Porcellio alpinus Mulaik and Mulaik, 1943
Porcellio conchus Mulaik and Mulaik, 1943
Porcellio dilatatus Brandt and Ratzeburg, 1833
Porcellio grandeus Mulaik and Mulaik, 1943
Porcellio laevis Latreille, 1804
Porcellio ragusae (Dollfus, 1896)
Porcellio scaber Latreille, 1804

Porcellio spinicornis Say, 1818
Porcellionides floria Garthwaite and Sassaman, 1985
Porcellionides pruinosus (Brandt, 1833)
Porcellionides virgatus (Budde-Lund, 1885)
Proporcellio quadriseriatus (Verhoeff, 1917)
Family TRACHELIPODIDAE Strouhal, 1953 (2 spp.)
Nagurus cristatus (Dollfus, 1889)
Trachelipus rathkii (Brandt, 1833)

SECTION II: ALPHABETICAL LIST OF SPECIES, SOURCES OF ILLUSTRATIONS, AND DISTRIBUTION CATEGORY

Each terrestrial isopod known to occur in Canada, Alaska, and the 48 contiguous United States (U.S.) is listed alphabetically with the author and date of the original description and the name of its family.

Publications with diagnostic drawings, photographs, or scanning electron micrographs are cited alphabetically by author. Our attempt was not to produce an exhaustive listing but rather to emphasize the most recent and more accessible sources. Secondary references may be included, especially where access to the original publication may be difficult.

Each species is assigned to a distribution category based on whether the records in the literature indicate it to be an endemic or an assumed immigrant to North America. Approximately one third of the species treated here have not been considered to be native. The extent of the capacity for terrestrial isopods to be transported beyond their native ranges, especially the large number of synanthropic species, is a trait which adds unusual complications to the study of their distributions. Widely distributed species, whether their migration history includes human introduction or any of various other possible transportation means, are categorized as immigrants. This term (rather than "exotic") was chosen to emphasize the significance of this trait for analysis of the North American fauna.

Most endemics are confined to either an eastern or western distribution, and do not have ranges which cross the continent. For isopods with only U.S. records, we describe their distribution on the continent by using the Mississippi River as the demarcation for dividing the country into east and west portions. This demarcation was used for convenience only, since sufficient data are not available to divide the endemics into more zoogeographically informative categories. The native species are mainly seashore or cave dwellers. The seashore species are here designated as East or West Coast endemics. Most cave dwellers have extremely limited distributions, being reported from only one or two caves. The habitat preferences of all species, both endemics and immigrants, were given by Jass and Klausmeier (2000).

The summary of past records in the literature provides a helpful but fairly limited indication of the true ranges of these species. Much work remains to be done on the zoogeography of terrestrial isopods. Mapping the current records may simply serve to illustrate the incompleteness of the published literature. A number of species are known from their type localities only, which especially in some of the older publications may have been so incompletely described as to make them very difficult if not impossible to relocate. However insufficient, these records serve as the basis for planning research which could lead to a more comprehensive view of terrestrial isopod distributions in the future.

Agabiformius lentus (Budde-Lund, 1885), Porcellionidae

Published Illustrations: Schultz (1984b) Fig. 2E-G.

Distribution: Immigrant to the U.S.

Agabiformius pusillus (Budde-Lund, 1885), Porcellionidae

Published Illustrations: none found.

Distribution: U.S. West Coast endemic.

Alloniscus mirabilis (Stuxberg, 1875), Scyphacidae

Published Illustrations: Garthwaite and Lawson (1992) Fig. 14.

Distribution: U.S. West Coast endemic.

Alloniscus perconvexus Dana, 1856, Scyphacidae

Published Illustrations: Garthwaite and Lawson (1992) Fig. 13; Muchmore (1990) Fig. 24.26; Schultz (1984a) Figs. 1-2; Van Name (1936) Figs. 119-120.

Distribution: Canadian and U.S. West Coast endemic.

Amerigoniscus centralis Vandel, 1978, Trichoniscidae

Published Illustrations: Vandel (1978) Fig. 6.

Distribution: Endemic west of the Mississippi River.

Amerigoniscus curvatus Vandel, 1978, Trichoniscidae

Published Illustrations: Vandel (1978) Fig. 3.

Distribution: Endemic east of the Mississippi River.

Amerigoniscus georgiensis Vandel, 1978, Trichoniscidae

Published Illustrations: Vandel (1978) Fig. 1.

Distribution: Endemic east of the Mississippi River.

Amerigoniscus gipsocolus (Vandel, 1965), Trichoniscidae

Published Illustrations: Vandel (1965) Fig. 10; Vandel (1978) Fig. 7.

Distribution: Endemic west of the Mississippi River.

Amerigoniscus henroti (Vandel, 1950), Trichoniscidae

Published Illustrations: Vandel (1978) Fig. 5.

Distribution: Endemic east of the Mississippi River.

Amerigoniscus malheurensis Schultz, 1982, Trichoniscidae

Published Illustrations: Schultz (1982a) Figs. 1-2.

Distribution: U.S. West Coast endemic.

Amerigoniscus nicholasi (Vandel, 1965), Trichoniscidae

Published Illustrations: Muchmore (1970a) Figs. 1-3 [synonym *Caucasonethes paynei*]; Muchmore (1990) Fig. 24.14; Vandel (1965) Fig. 9; Vandel (1978) Fig. 2.

Distribution: Endemic east of the Mississippi River.

Amerigoniscus proximus Vandel, 1978, Trichoniscidae

Published Illustrations: Vandel (1978) Fig. 4.

Distribution: Endemic east of the Mississippi River.

Amerigoniscus rothi (Vandel, 1953), Trichoniscidae

Published Illustrations: Vandel (1978) Fig. 8.

Distribution: U.S. West Coast endemic.

Androniscus dentiger Verhoeff, 1908, Trichoniscidae

Published Illustrations: Muchmore (1990) Fig. 24.11; Oliver and Meechan (1993) Fig. 11; Van Name (1940) Fig. 1.

Distribution: Immigrant to Canada and the U.S.

Armadillidium nasatum Budde-Lund, 1885, Armadillidiidae

Published Illustrations: Muchmore (1990) Fig. 24.34; Oliver and Meechan (1993) Fig. 38; Schultz (1982b) Fig. 30; Van Name (1936) Fig. 160.

Distribution: Immigrant to Canada and the U.S.

Armadillidium vulgare (Latreille, 1804), Armadillidiidae

Published Illustrations: Garthwaite and Lawson (1992) Fig. 19; Muchmore (1990) Figs. 24.28, 24.33; Oliver and Meechan (1993) Fig. 39; Schultz (1982b) Fig. 31; Schultz (1984b) Fig. 3B-D; Van Name (1936) Figs. 157-159.

Distribution: Immigrant to Canada and the U.S.

Armadillo affinis (Dana, 1856), Armadillidae

Published Illustrations: none found.

Distribution: U.S. West Coast endemic.

Armadillo speciosus Stuxberg, 1875, Armadillidae

Published Illustrations: none found.

Distribution: U.S. West Coast endemic.

Armadilloniscus coronacapitalis Menzies, 1950, Scyphacidae

Published Illustrations: Garthwaite and Lawson (1992) Fig. 10.

Distribution: U.S. West Coast endemic.

Armadilloniscus ellipticus (Harger, 1878), Scyphacidae

Published Illustrations: Garthwaite, Lawson, and Taiti (1992) Figs. 1b, "1"[2]a-c, 3a-b; Muchmore (1990) Fig. 24.16; Schultz (1982b) Fig. 3; Van Name (1936) Fig. 45.

Distribution: Endemic east of the Mississippi River.

Armadilloniscus holmesi Arcangeli, 1933, Scyphacidae

Published Illustrations: Garthwaite and Lawson (1992) Fig. 12; Garthwaite, Lawson, and Taiti (1992) Figs. 1c, "1"[2]d-f, 3d.

Distribution: U.S. West Coast endemic.

Armadilloniscus lindahli (Richardson, 1905), Scyphacidae
Published Illustrations: Garthwaite and Lawson (1992) Fig. 11; Van Name (1936) Fig. 47.
Distribution: U.S. West Coast endemic.

Atlantoscia floridana (Van Name, 1940), Philosciidae
Published Illustrations: Johnson (1986) Figs. 1D, 2; Schultz and Johnson (1984) Figs. 4A-S, 5A-F, 7M; Van Name (1940) Fig. 4.
Distribution: Endemic east of the Mississippi River.

Balloniscus brevicornis (Budde-Lund, 1885), Balloniscidae
Published Illustrations: none found.
Distribution: Endemic east of the Mississippi River.

Balloniscus nigricans (Budde-Lund, 1885), Balloniscidae
Published Illustrations: none found.
Distribution: Endemic east of the Mississippi River.

Brackenridgia cavernarum Ulrich, 1902, Trichoniscidae
Published Illustrations: Muchmore (1990) Fig. 24.15; Vandel (1965) Figs. 2-3; Van Name (1936) Fig. 39.
Distribution: Endemic west of the Mississippi River.

Brackenridgia heroldi (Arcangeli, 1932), Trichoniscidae
Published Illustrations: Garthwaite and Lawson (1992) Fig. 6; Van Name (1936) Fig. 314.
Distribution: U.S. West Coast endemic.

Brackenridgia reddelli (Vandel, 1965), Trichoniscidae
Published Illustrations: Vandel (1965) Fig. 7.
Distribution: Endemic west of the Mississippi River.

Brackenridgia sphinxensis Schultz, 1984, Trichoniscidae
Published Illustrations: Schultz (1984b) Fig. 1.
Distribution: Endemic west of the Mississippi River.

Cordioniscus stebbingi (Patience, 1907), Styloniscidae
Published Illustrations: Sutton (1972) Fig. 25A; Van Name (1936) Fig. 35.
Distribution: Immigrant to the U.S.

Cubaris murina Brandt, 1833, Armadillidae
Published Illustrations: Van Name (1936) Figs. 235-236.
Distribution: Immigrant to the U.S.

Cylisticus convexus (DeGeer, 1778), Cylisticidae

Published Illustrations: Muchmore (1990) Figs. 24.27, 24.30; Oliver and Meechan (1993) Fig. 41; Schultz (1982b) Figs. 28-29; Van Name (1936) Figs. 147A, 148.

Distribution: Immigrant to Canada and the U.S.

Detonella papillicornis (Richardson, 1904), Scyphacidae

Published Illustrations: Garthwaite and Lawson (1992) Fig. 9; Van Name (1936) Fig. 44.

Distribution: Canadian and U.S. West Coast endemic.

Floridoscia fusca Schultz and Johnson, 1984, Philosciidae

Published Illustrations: Johnson (1986) Figs. 1C, 1G-H; Schultz and Johnson (1984) Figs. 6A-R, 7A-L.

Distribution: Endemic east of the Mississippi River.

Halophiloscia couchii (Kinahan, 1858), Halophilosciidae

Published Illustrations: Lemos de Castro (1962) figs. 3-9; Vandel (1960) Figs. 237-238.

Distribution: Immigrant to the U.S.

Haplophthalmus danicus Budde-Lund, 1879, Trichoniscidae

Published Illustrations: Muchmore (1990) Fig. 24.10; Oliver and Meechan (1993) Fig. 19; Schultz (1982b) Fig. 16; Schultz (1984b) Fig. 3A; Van Name (1936) Fig. 37.

Distribution: Immigrant to Canada and the U.S.

Hyloniscus riparius (Koch, 1838), Trichoniscidae

Published Illustrations: Schultz (1982b) Figs. 11-12.

Distribution: Immigrant to Canada and the U.S.

Ligia baudiniana H. Milne Edwards, 1840, Ligiidae

Published Illustrations: Schultz and Johnson (1984) Fig. 1G-H; Van Name (1936) Fig. 14.

Distribution: Endemic reported from both east and west of the Mississippi River.

Ligia exotica Roux, 1828, Ligiidae

Published Illustrations: Schultz (1982b) Figs. 1-2; Schultz and Johnson (1984) Fig. 1K-L; Van Name (1936) Fig. 8.

Distribution: Immigrant to the U.S.

Ligia occidentalis Dana, 1853, Ligiidae

Published Illustrations: Garthwaite and Lawson (1992) Fig. 2; Van Name (1936) Fig. 9.

Distribution: U.S. West Coast endemic.

Ligia oceanica (Linnaeus, 1767), Ligiidae

Published Illustrations: Oliver and Meechan (1993) Fig. 6; Van Name (1936) Fig. 6.

Distribution: Immigrant to the U.S.

Ligia pallasii Brandt, 1833, Ligiidae

Published Illustrations: Garthwaite and Lawson (1992) Fig. 3; Van Name (1936) Fig. 7.

Distribution: Canadian and U.S. West Coast endemic.

Ligidium blueridgensis Schultz, 1964, Ligiidae

Published Illustrations: Schultz (1982b) Fig. 19.

Distribution: Endemic east of the Mississippi River.

Ligidium elrodii (Packard, 1873), Ligiidae

Published Illustrations: Schultz (1970) Figs. 1-3; Schultz (1982b) Figs. 17-18, 20.

Distribution: Immigrant to Canada and the U.S.

Ligidium elrodii chatoogaensis Schultz, 1970, Ligiidae

Published Illustrations: Schultz (1970) Figs. 29-33.

Distribution: Endemic east of the Mississippi River.

Ligidium elrodii hancockensis Schultz, 1970, Ligiidae

Published Illustrations: Schultz (1970) Figs. 24-28.

Distribution: Endemic east of the Mississippi River.

Ligidium elrodii leensis Schultz, 1970, Ligiidae

Published Illustrations: Schultz (1970) Figs. 12-17.

Distribution: Endemic east of the Mississippi River.

Ligidium elrodii scottensis Schultz, 1970, Ligiidae

Published Illustrations: Schultz (1970) Figs. 20-23.

Distribution: Endemic east of the Mississippi River.

Ligidium floridanum Schultz and Johnson, 1984, Ligiidae

Published Illustrations: Schultz and Johnson (1984) Figs. 2A-R, 3A-H.

Distribution: Endemic east of the Mississippi River.

Ligidium gracile (Dana, 1856), Ligiidae

Published Illustrations: Garthwaite and Lawson (1992) Fig. 5; Jackson (1923) Fig. 6;

Van Name (1936) Figs. 22-23.

Distribution: Canadian and U.S. West Coast endemic.

Ligidium gracile var. *flavum* Jackson, 1923, Ligiidae

Published Illustrations: none found.

Distribution: Canadian West Coast endemic.

Ligidium kofoidi Maloney, 1930, Ligiidae

Published Illustrations: Van Name (1936) Fig. 28.

Distribution: U.S. West Coast endemic.

Ligidium lapetum Mulaik and Mulaik, 1942, Ligiidae

Published Illustrations: Mulaik and Mulaik (1942) Pl. V figs. 61-66; Van Name (1942) Fig. 1.

Distribution: U.S. West Coast endemic.

Ligidium latum Jackson, 1923, Ligiidae

Published Illustrations: Garthwaite and Lawson (1992) Fig. 4; Jackson (1923) Figs. 7-8; Van Name (1936) Fig. 27.

Distribution: U.S. West Coast endemic.

Ligidium mucronatum Mulaik and Mulaik, 1942, Ligiidae

Published Illustrations: Mulaik and Mulaik (1942) Pl. IV figs. 53-56, Pl. V figs. 57-60; Van Name (1942) Fig. 2.

Distribution: Endemic west of the Mississippi River.

Littorophiloscia culebrae (Moore, 1901), Philosciidae

Published Illustrations: Johnson (1986) Figs. 1A, 1E; Schultz (1983) Fig. 1A-I; Schultz and Johnson (1984) Fig. 1M; Taiti and Ferrara (1986) Fig. 8.

Distribution: Endemic east of the Mississippi River.

Littorophiloscia richardsonae (Holmes and Gay, 1909), Philosciidae

Published Illustrations: Garthwaite and Lawson (1992) Fig. 7; Taiti and Ferrara (1986) Figs. 2-3.

Distribution: Canadian and U.S. West Coast endemic.

Littorophiloscia tropicalis Taiti and Ferrara, 1986, Philosciidae

Published Illustrations: Schultz (1983) Fig. 1J-R [synonym *Vandeloscia riedli* Schultz according to Leistikow and Wagele (1999)]; Taiti and Ferrara (1986) Fig. 9.

Distribution: Endemic east of the Mississippi River.

Littorophiloscia vittata (Say, 1818), Philosciidae

Published Illustrations: Johnson (1986) Figs. 1B, 1F; Schultz (1963a) Figs. 1-22 [synonym *Philoscia robusta*]; Schultz (1982b) Figs. 4-5; Schultz (1983) Figs. 2-3; Schultz and Johnson (1984) Figs. 1N, 7N; Taiti and Ferrara (1986) Fig. 7.

Distribution: Canadian and U.S. East Coast endemic, reported from both east and west of the Mississippi River.

Miktoniscus barri Vandel, 1965, Trichoniscidae

Published Illustrations: Vandel (1965) Figs. 15-16.

Distribution: Endemic east of the Mississippi River.

Miktoniscus halophilus Blake, 1931, Trichoniscidae

Published Illustrations: Blake (1931a) Figs. 1i-j, 2; Schultz (1976) Figs. 1-39, 46; Schultz (1982b) Fig. 15.

Distribution: U.S. East Coast endemic.

Miktoniscus mammothensis Muchmore, 1964, Trichoniscidae

Published Illustrations: Muchmore (1964) Figs. 7-11.

Distribution: Endemic east of the Mississippi River.

Miktoniscus medcofi Van Name, 1940, Trichoniscidae

Published Illustrations: Muchmore (1964) Figs. 1-6, 13; Mulaik and Mulaik (1942) Pl. IV figs. 42-52; Schultz (1976) Figs. 40-45; Schultz (1982b) Fig. 14; Van Name (1940) Fig. 2.

Distribution: Endemic east of the Mississippi River.

Miktoniscus morganensis Schultz, 1976, Trichoniscidae

Published Illustrations: Vandel (1965) Figs. 13A-B, 14A.

Distribution: Endemic east of the Mississippi River.

Miktoniscus oklahomensis Vandel, 1965, Trichoniscidae

Published Illustrations: none found.

Distribution: Endemic west of the Mississippi River.

Miktoniscus racovitzai racovitzai Vandel, 1950, Trichoniscidae

Published Illustrations: Muchmore (1964) Fig. 12; Vandel (1965) Figs. 21-22 [*M. racovitzai oklahomensis* is now the full species *M. oklahomensis*].

Distribution: Endemic reported from east of the Mississippi River.

Nagurus cristatus (Dollfus, 1889), Trachelipodidae

Published Illustrations: Van Name (1936) Fig. 146.

Distribution: Immigrant to the U.S.

Niambia capensis (Dollfus, 1895), Platyarthridae

Published Illustrations: Garthwaite and Lawson (1992) Fig. 8 [synonym: *Mauritaniscus littorinus* (Miller)].

Distribution: Immigrant to the U.S.

Oniscus asellus Linnaeus, 1758, Oniscidae

Published Illustrations: Muchmore (1990) Figs. 24.1, 24.2, 24.20, 24.22, 24.25; Oliver and Meechan (1993) Fig. 26; Schultz (1982b) Figs. 8, 9a-b; Van Name (1936) Figs. 97-98.

Distribution: Immigrant to Canada and the U.S.

Oregoniscus nearcticus (Arcangeli, 1932), Trichoniscidae

Published Illustrations: Van Name (1936) Fig. 313.

Distribution: U.S. West Coast endemic.

Philoscia geiseri Van Name, 1936, Philosciidae

Published Illustrations: Van Name (1936) Fig. 53.

Distribution: Endemic west of the Mississippi River.

Philoscia muscorum (Scopoli, 1763), Philosciidae

Published Illustrations: Muchmore (1990) Fig. 24.24; Oliver and Meechan (1993) Fig. 27; Van Name (1936) Figs. 50-51.

Distribution: Immigrant to Canada and the U.S.

Philoscia spinosa Say, 1818, Philosciidae

Published Illustrations: none found.

Distribution: Endemic east of the Mississippi River.

Platyarthrus aiasensis Legrand, 1954, Platyarthridae

Published Illustrations: Vandel (1960) Fig. 227D.

Distribution: Immigrant to the U.S.

Platyarthrus hoffmannseggii Brandt, 1833, Platyarthridae

Published Illustrations: Oliver and Meechan (1993) Fig. 28; Van Name (1940) Fig. 8.

Distribution: Immigrant to the U.S.

Porcellio alpinus Mulaik and Mulaik, 1943, Porcellionidae

Published Illustrations: Mulaik and Mulaik (1943) Pl. II figs. 13-20.

Distribution: Endemic west of the Mississippi River.

Porcellio conchus Mulaik and Mulaik, 1943, Porcellionidae

Published Illustrations: Mulaik and Mulaik (1943) Pl. I figs. 1-5.

Distribution: Endemic west of the Mississippi River.

Porcellio dilatatus Brandt and Ratzeburg, 1833, Porcellionidae

Published Illustrations: Garthwaite and Lawson (1992) Fig. 16; Oliver and Meechan (1993) Fig. 45; Schultz (1984b) Fig. 3K-N; Van Name (1940) Fig. 10.

Distribution: Immigrant to Canada and the U.S.

Porcellio grandeus Mulaik and Mulaik, 1943, Porcellionidae

Published Illustrations: Mulaik and Mulaik (1943) Pl. I figs. 6-12.

Distribution: Endemic west of the Mississippi River.

Porcellio laevis Latreille, 1804, Porcellionidae

Published Illustrations: Garthwaite and Lawson (1992) Fig. 17; Oliver and Meechan (1993) Fig. 46; Schultz (1982b) Figs. 24-25; Schultz (1984b) Fig. 3H-J; Van Name (1936) Fig. 129; Van Name (1940) Fig. 27.

Distribution: Immigrant to Canada and the U.S.

Porcellio ragusae (Dollfus, 1896), Porcellionidae

Published Illustrations: Van Name (1940) Figs. 11-12.

Distribution: Endemic west of the Mississippi River.

Porcellio scaber Latreille, 1804, Porcellionidae

Published Illustrations: Garthwaite and Lawson (1992) Fig. 15; Oliver and Meechan

(1993) Fig. 47; Schultz (1982b) Figs. 21-23; Van Name (1936) Figs. 127A, 128; Van Name (1940) Fig. 28.

Distribution: Immigrant to Canada and the U.S.

Porcellio spinicornis Say, 1818, Porcellionidae

Published Illustrations: Oliver and Meechan (1993) Fig. 47; Van Name (1936) Fig. 130; Van Name (1940) Figs. 9, 29.

Distribution: Immigrant to Canada and the U.S.

Porcellionides floria Garthwaite and Sassaman, 1985, Porcellionidae

Published Illustrations: Garthwaite and Lawson (1992) Fig. 18; Garthwaite and Sassaman (1985) Figs. 1A-C, 2.

Distribution: Immigrant to the U.S.

Porcellionides pruinosus (Brandt, 1833), Porcellionidae

Published Illustrations: Garthwaite and Sassaman (1985) Figs. 1D-F, 2; Muchmore (1990) Fig. 24.31; Oliver and Meechan (1993) Figs. 44E-G, 50; Schultz (1982b) Fig. 6; Schultz (1984b) Fig. 3E-G; Van Name (1936) Figs. 127B, 133-134.

Distribution: Immigrant to Canada and the U.S.

Porcellionides virgatus (Budde-Lund, 1885), Porcellionidae

Published Illustrations: Schultz (1982b) Figs. 26-27; Van Name (1936) Fig. 135; Van Name (1940) Fig. 30A.

Distribution: Endemic reported from both east and west of the Mississippi River.

Proporcellio quadriseriatus (Verhoeff, 1917), Porcellionidae

Published Illustrations: Van Name (1936) Fig. 132.

Distribution: Immigrant to the U.S.

Rhyscotus texensis (Richardson, 1905), Rhyscotidae

Published Illustrations: Muchmore (1990) Fig. 24.29; Schultz and Johnson (1984) Figs. 8A-P, 9A-I; Van Name (1936) Figs. 150i, 150q, 156.

Distribution: Endemic reported from both east and west of the Mississippi River.

Scyphacella arenicola Smith, 1873, Scyphacidae

Published Illustrations: Muchmore (1990) Fig. 24.17; Van Name (1936) Fig. 41.

Distribution: U.S. East Coast endemic.

Stenoniscus pleonalis Aubert and Dollfus, 1890, Stenoniscidae

Published Illustrations: Vandel (1960) Figs. 207-210.

Distribution: Immigrant to the U.S.

Trachelipus rathkii (Brandt, 1833), Trachelipodidae

Published Illustrations: Muchmore (1990) Fig. 24.32; Oliver and Meechan (1993) Fig. 52; Van Name (1936) Figs. 147B, 149; Van Name (1940) Fig. 31.

Distribution: Immigrant to Canada and the U.S.

Trichoniscoides sarsi Patience, 1908, Trichoniscidae
Published Illustrations: Muchmore (1990) Fig. 24.12.
Distribution: Immigrant to Canadian East Coast.

Trichoniscus orchidicola Mulaik, 1960, Trichoniscidae
Published Illustrations: Mulaik (1960) Pl. V figs. 74-79.
Distribution: Immigrant to the U.S.

Trichoniscus pusillus Brandt, 1833, Trichoniscidae
Published Illustrations: Blake (1931) Fig. 1a-h; Muchmore (1990) Figs. 24.6, 24.8;
Oliver and Meechan (1993) Figs. 10D-E, 16; Schultz (1982b) Fig. 10.
Distribution: Immigrant to Canada and the U.S.

Trichoniscus pusillus ssp. *provisorius* Racovitza, 1908, Trichoniscidae
Published Illustrations: Palmén (1951) Figs. 5-6.
Distribution: Immigrant to Canadian and U.S. East Coast.

Trichoniscus pygmaeus Sars, 1899, Trichoniscidae
Published Illustrations: Oliver and Meechan (1993) Figs. 10C, 17; Van Name (1936)
Fig. 30.
Distribution: Immigrant to Canada and the U.S.

Trichorhina donaldsoni Schultz, 1963, Platyarthridae
Published Illustrations: Schultz (1963c) Figs. 1-22.
Distribution: Endemic east of the Mississippi River.

Trichorhina heterophthalma Lemos de Castro, 1964, Platyarthridae
Published Illustrations: Lemos de Castro (1964) Figs. 1-2.
Distribution: Endemic east of the Mississippi River.

Trichorhina tomentosa Budde-Lund, 1893, Platyarthridae
Published Illustrations: Van Name (1936) Fig. 103.
Distribution: Immigrant to the U.S.

Trichorhina triocis Mulaik and Mulaik, 1943, Platyarthridae
Published Illustrations: Muchmore (1990) Fig. 24.18; Mulaik and Mulaik (1943) Pl. III
figs. 28-36.
Distribution: Endemic west of the Mississippi River.

Tylos latreillei Audouin, 1826, Tyliidae
Published Illustrations: Schultz and Johnson (1984) Fig. 1A-B; Van Name (1936)
Figs. 249-250.
Distribution: Immigrant to the U.S.

Tylos marcuzzii Giordani Soika, 1954, Tylidae
Published Illustrations: Schultz and Johnson (1984) Fig. 1E-F.
Distribution: Immigrant to the U.S.

Tylos niveus Budde-Lund, 1885, Tylidae
Published Illustrations: Schultz and Johnson (1984) Fig. 1C-D; Van Name (1936)
Fig. 256.
Distribution: Endemic east of the Mississippi River.

Tylos punctatus Holmes and Gay, 1909, Tylidae
Published Illustrations: Van Name (1936) Figs. 251-253.
Distribution: U.S. West Coast endemic.

Tylos wegneri Vandel, 1952, Tylidae
Published Illustrations: none found.
Distribution: Immigrant to the U.S.

Venezillo apacheus (Mulaik and Mulaik, 1942), Armadillidae
Published Illustrations: Mulaik and Mulaik (1942) Pl. I; Van Name (1942) Fig. 17.
Distribution: Endemic west of the Mississippi River.

Venezillo arizonicus (Mulaik and Mulaik, 1942), Armadillidae
Published Illustrations: Mulaik and Mulaik (1942) Pl. II figs. 22-28, Pl. III figs. 29-30;
Schultz (1984b) Figs. 4-5; Van Name (1942) Fig. 18.
Distribution: Endemic west of the Mississippi River.

Venezillo californicus (Budde-Lund, 1885), Armadillidae
Published Illustrations: none found.
Distribution: U.S. West Coast endemic.

Venezillo chamberlini (Mulaik and Mulaik, 1942), Armadillidae
Published Illustrations: Mulaik and Mulaik (1942) Pl. II figs. 15-21; Van Name (1942)
Fig. 19.
Distribution: Endemic west of the Mississippi River.

Venezillo microphthalmus (Arcangeli, 1932), Armadillidae
Published Illustrations: Garthwaite and Lawson (1992) Fig. 20; Van Name (1936)
Fig. 315.
Distribution: U.S. West Coast endemic.

Venezillo parvus (Budde-Lund, 1885), Armadillidae
Published Illustrations: Schultz (1975) Fig. 7.
Distribution: Immigrant to the U.S.

Venezillo pisum (Budde-Lund, 1885), Armadillidae
Published Illustrations: none found.
Distribution: Endemic east of the Mississippi River.

Venezillo tanneri (Mulaik and Mulaik, 1942), Armadillidae

Published Illustrations: Mulaik and Mulaik (1942) Pl. III figs. 31-39; Van Name (1942)
Fig. 20.

Distribution: Endemic west of the Mississippi River.

SECTION III: PROVINCE AND STATE SPECIES LISTS

Under First Published Record, this section updates the first records from the literature for each geographic unit, from our initial such compilation (Jass and Klausmeier, 2000). Canadian provinces and then U.S. states are listed alphabetically as they would be by name, followed by their postal code abbreviations which are used to designate each on Maps 1 and 2. The number for total species is given in parentheses.

Canadian Province

ALBERTA, AB (0)

BRITISH COLUMBIA, BC (14)

Alloniscus perconvexus

Armadillidium nasatum

Armadillidium vulgare

Cylisticus convexus

Detonella papillicornis

Ligia pallasii

Ligidium gracile

Ligidium gracile var. *flavum*

Littorophiloscia richardsonae

Oniscus asellus

Porcellio dilatatus

Porcellio scaber

Porcellionides pruinosus

Trachelipus rathkii

MANITOBA, MB (0)

NEW BRUNSWICK, NB (4)

Cylisticus convexus

Porcellio scaber

Trachelipus rathkii

Trichoniscus pusillus

NEWFOUNDLAND, NF (12)

Androniscus dentiger

Cylisticus convexus

Haplophthalmus danicus

Hyloniscus riparius

Oniscus asellus

Porcellio dilatatus

Porcellio scaber

Trachelipus rathkii

First Published Record

Hatch (1947)

Spencer (1942)

Hatch (1947)

Hatch (1947)

Fee (1927)

Richardson (1904)

Arcangeli (1932)

Jackson (1923)

Taiti and Ferrara (1986)

Spencer (1942)

Hatch (1947)

Richardson (1905)

Hatch (1947)

Spencer (1942)

Wallace (1919)

Richardson (1905)

Wallace (1919)

Walker (1927)

Palmen (1951)

Van Name (1936)

Palmen (1951)

Palmen (1951)

Stuxberg (1875)

Palmen (1951)

Stuxberg (1875)

Palmen (1951)

<i>Trichoniscoides sarsi</i>	Muchmore (1990)
<i>Trichoniscus pusillus</i>	Palmen (1951)
<i>Trichoniscus pusillus provisorius</i>	Palmen (1951)
<i>Trichoniscus pygmaeus</i>	Palmen (1951)
NORTHWEST TERRITORIES, NT (0)	-----
NOVA SCOTIA, NS (6)	
<i>Littorophiloscia vittata</i>	Taiti and Ferrara (1986)
<i>Oniscus asellus</i>	Hatch (1939)
<i>Philoscia muscorum</i>	Bousfield (1962)
<i>Porcellio scaber</i>	Richardson (1905)
<i>Trachelipus rathkii</i>	Hatch (1947)
<i>Trichoniscus pusillus</i>	Van Name (1940)
ONTARIO, ON (13)	
<i>Androniscus dentiger</i>	Van Name (1940)
<i>Armadillidium nasatum</i>	Ross (1914)
<i>Armadillidium vulgare</i>	Ross (1914)
<i>Cylisticus convexus</i>	Stuxberg (1875)
<i>Haplophthalmus danicus</i>	Walker (1927)
<i>Ligidium elrodii</i>	Underwood (1886)
<i>Oniscus asellus</i>	Stuxberg (1875)
<i>Porcellio laevis</i>	Thompson (1932)
<i>Porcellio scaber</i>	Stuxberg (1875)
<i>Porcellio spinicornis</i>	Underwood (1886)
<i>Porcellionides pruinosus</i>	Walker (1927)
<i>Trachelipus rathkii</i>	Stuxberg (1875)
<i>Trichoniscus pusillus</i>	Walker (1927)
PRINCE EDWARD ISLAND, PE (0)	-----
PROVINCE OF QUEBEC, PQ (6)	
<i>Armadillidium nasatum</i>	Hatch (1947)
<i>Cylisticus convexus</i>	Walker (1927)
<i>Oniscus asellus</i>	Johansen (1926)
<i>Porcellio scaber</i>	Richardson (1905)
<i>Porcellio spinicornis</i>	Johansen (1926)
<i>Trachelipus rathkii</i>	Walker (1927)
SASKATCHEWAN, SK (0)	-----
YUKON TERRITORY, YT (0)	-----

U.S. State

ALABAMA, AL (4)

Armadillidium vulgare

Miktoniscus medcofi

Miktoniscus morganensis

Porcellionides virgatus

ALASKA, AK (6)

Agabiformius pusillus

First Published Record

Garthwaite et al. (1995)

Hobbs and Barr (1960)

Schultz (1976)

Schultz (1982a)

Johansen (1926)

<i>Detonella papillicornis</i>	Richardson (1904)
<i>Ligia pallasii</i>	Richardson (1905)
<i>Ligidium gracile</i>	Richardson (1905)
<i>Porcellio laevis</i>	Richardson (1905)
<i>Porcellio scaber</i>	Richardson (1905)
ARIZONA, AZ (9)	
<i>Agabiformius lentus</i>	Schultz (1984a)
<i>Armadillidium vulgare</i>	Schultz (1984a)
<i>Brackenridgia sphinxensis</i>	Schultz (1984a)
<i>Cylisticus convexus</i>	Schultz (1984a)
<i>Haplophthalmus danicus</i>	Schultz (1984a)
<i>Porcellio dilatatus</i>	Van Name (1936)
<i>Porcellio laevis</i>	Richardson (1905)
<i>Porcellionides pruinosus</i>	Mulaik and Mulaik (1942)
<i>Venezillo arizonicus</i>	Mulaik and Mulaik (1942)
ARKANSAS, AR (10)	
<i>Armadillidium nasatum</i>	Causey (1952)
<i>Armadillidium vulgare</i>	Causey (1952)
<i>Cylisticus convexus</i>	Causey (1953)
<i>Ligidium elrodii</i>	Causey (1952)
<i>Oniscus asellus</i>	Causey (1952)
<i>Porcellio scaber</i>	Causey (1952)
<i>Porcellio spinicornis</i>	Causey (1952)
<i>Porcellionides pruinosus</i>	Causey (1952)
<i>Trachelipus rathkii</i>	Causey (1952)
<i>Trichoniscus pusillus</i>	Causey (1952)
CALIFORNIA, CA (34)	
<i>Agabiformius pusillus</i>	Richardson (1905)
<i>Alloniscus mirabilis</i>	Stuxberg (1875)
<i>Alloniscus perconvexus</i>	Dana (1856)
<i>Armadillidium nasatum</i>	Hatch (1947)
<i>Armadillidium vulgare</i>	Arcangeli (1932)
<i>Armadillo affinis</i>	Dana (1856)
<i>Armadillo speciosus</i>	Stuxberg (1875)
<i>Armadilloniscus coronacapitalis</i>	Menzies (1950)
<i>Armadilloniscus holmesii</i>	Holmes and Gay (1909)
<i>Armadilloniscus lindahli</i>	Richardson (1905)
<i>Brackenridgia heroldi</i>	Arcangeli (1932)
<i>Detonella papillicornis</i>	Garthwaite (1988)
<i>Haplophthalmus danicus</i>	Schultz (1984a)
<i>Ligia exotica</i>	Richardson (1905)
<i>Ligia occidentalis</i>	Dana (1853)
<i>Ligia pallasii</i>	Richardson (1905)
<i>Ligidium elrodii</i>	Richardson (1905)
<i>Ligidium gracile</i>	Richardson (1905)
<i>Ligidium kofoidi</i>	Maloney (1930)

- Ligidium lapetum*
Ligidium latum
Littorophiloscia richardsonae
Niambia capensis
Platyarthrus aiasensis
Porcellio dilatatus
Porcellio laevis
Porcellio scaber
Porcellionides floria
Porcellionides pruinosus
Porcellionides virgatus
Tylos punctatus
Venezillo arizonicus
Venezillo californicus
Venezillo microphthalmus
- COLORADO, CO (4)
- Armadillidium vulgare*
Cylisticus convexus
Porcellionides pruinosus
Trachelipus rathkii
- CONNECTICUT, CT (11)
- Armadillidium nasatum*
Armadillidium vulgare
Armadilloniscus ellipticus
Cylisticus convexus
Littorophiloscia vittata
Oniscus asellus
Philoscia muscorum
Platyarthrus hoffmannseggii
Porcellio scaber
Porcellio spinicornis
Scyphacella arenicola
- DELAWARE, DE (1)
- Scyphacella arenicola*
- DISTRICT OF COLUMBIA, DC (4)
- Armadillidium vulgare*
Cylisticus convexus
Porcellio laevis
Trachelipus rathkii
- FLORIDA, FL (29)
- Armadillidium vulgare*
Armadilloniscus ellipticus
Atlantoscia floridana
Cubaris murina
Floridoscia fusca
Ligia baudiniana
- Mulaik and Mulaik (1942)
Jackson (1923)
Holmes and Gay (1909)
Miller (1936)
Garthwaite and Taiti (1989)
Miller (1936)
Richardson (1905)
Stuxberg (1875)
Garthwaite and Sassaman (1985)
Stuxberg (1875)
Richardson (1905)
Holmes and Gay (1909)
Schultz (1984a)
Budde-Lund (1885)
Arcangeli (1932)
- Cockerell (1912)
Cockerell (1912)
Garthwaite and Sassaman (1985)
Hatch (1939)
- Blake (1929)
Kunkel (1918)
Harger (1878)
Kunkel (1918)
Rathbun (1905)
Kunkel (1918)
Harger (1880)
Van Name (1940)
Rathbun (1905)
Rathbun (1905)
Van Name (1936)
- Van Name (1936)
- Richardson (1905)
Richardson (1905)
Richardson (1905)
Richardson (1905)
- Hatch (1947)
Muchmore (1990)
Van Name (1940)
Schultz (1961)
Schultz and Johnson (1984)
Richardson (1905)

<i>Ligia exotica</i>	Richardson (1901)
<i>Ligidium floridanum</i>	Schultz and Johnson (1984)
<i>Littorophiloscia culebrae</i>	Schultz (1983)
<i>Littorophiloscia tropicalis</i>	Taiti and Ferrara (1986)
<i>Littorophiloscia vittata</i>	Schultz and Johnson (1984)
<i>Miktoniscus medcofi</i>	Vandel (1965)
<i>Nagurus cristatus</i>	Johnson (1986)
<i>Porcellio laevis</i>	Richardson (1905)
<i>Porcellio scaber</i>	Richardson (1905)
<i>Porcellionides pruinosus</i>	Richardson (1905)
<i>Porcellionides virgatus</i>	Richardson (1905)
<i>Rhyscotus texensis</i>	Schultz and Johnson (1984)
<i>Scyphacella arenicola</i>	Muchmore (1990)
<i>Stenoniscus pleonalis</i>	Johnson (1986)
<i>Trichorhina donaldsoni</i>	Schultz (1963c)
<i>Trichorhina heterophthalma</i>	Muchmore (1990)
<i>Trichorhina tomentosa</i>	Johnson (1986)
<i>Tylos latreillei</i>	Richardson (1905)
<i>Tylos marcuzzii</i>	Schultz (1974)
<i>Tylos niveus</i>	Budde-Lund (1885)
<i>Tylos wegneri</i>	Garces (1991)
<i>Venezillo parvus</i>	Schultz (1963b)
<i>Venezillo pisum</i>	Budde-Lund (1885)
GEORGIA, GA (17)	
<i>Amerigoniscus curvatus</i>	Holsinger and Peck (1971)
<i>Amerigoniscus georgiensis</i>	Holsinger and Peck (1971)
<i>Amerigoniscus proximus</i>	Holsinger and Peck (1971)
<i>Armadillidium vulgare</i>	Hatch (1947)
<i>Cylisticus convexus</i>	Schultz (1970)
<i>Ligidium blueridgensis</i>	Schultz (1964)
<i>Ligidium elrodii</i>	Hatch (1947)
<i>Ligidium elrodii chatoogaensis</i>	Schultz (1970)
<i>Littorophiloscia vittata</i>	Schultz and Johnson (1984)
<i>Miktoniscus barri</i>	Leistikow and Wagele (1999)
<i>Miktoniscus halophilus</i>	Schultz (1977)
<i>Philoscia spinosa</i>	Say (1818)
<i>Porcellio laevis</i>	Richardson (1905)
<i>Porcellionides virgatus</i>	Schultz (1982a)
<i>Trachelipus rathkii</i>	Richardson (1905)
<i>Trichorhina heterophthalma</i>	Muchmore (1990)
<i>Venezillo parvus</i>	Schultz (1975)
IDAHO, ID (7)	
<i>Armadillidium nasatum</i>	Hatch (1947)
<i>Armadillidium vulgare</i>	Hatch (1947)
<i>Cylisticus convexus</i>	Hatch (1947)
<i>Porcellio dilatatus</i>	Hatch (1947)

<i>Porcellio scaber</i>	Hatch (1939)
<i>Porcellionides pruinosus</i>	Hatch (1947)
<i>Trachelipus rathkii</i>	Hatch (1939)
ILLINOIS, IL (10)	
<i>Armadillidium nasatum</i>	Van Name (1936)
<i>Armadillidium vulgare</i>	Garthwaite et al. (1995)
<i>Cylisticus convexus</i>	Richardson (1905)
<i>Ligidium elrodii</i>	Holmquist (1926)
<i>Miktoniscus medcofi</i>	Van Name (1940)
<i>Oniscus asellus</i>	Richardson (1905)
<i>Porcellio scaber</i>	Fitch (1856)
<i>Porcellionides pruinosus</i>	Fitch (1856)
<i>Trachelipus rathkii</i>	Holmquist (1926)
<i>Trichoniscus pygmaeus</i>	Van Name (1940)
INDIANA, IN (11)	
<i>Armadillidium nasatum</i>	Eberly (1953)
<i>Armadillidium vulgare</i>	Eberly (1953)
<i>Cylisticus convexus</i>	Eberly (1953)
<i>Haplophthalmus danicus</i>	Richardson (1905)
<i>Ligidium elrodii</i>	Packard (1873)
<i>Miktoniscus barri</i>	Vandel (1965)
<i>Miktoniscus medcofi</i>	Schultz (1976)
<i>Porcellio scaber</i>	Richardson (1905)
<i>Porcellionides pruinosus</i>	Eberly (1953)
<i>Trachelipus rathkii</i>	House (1911)
<i>Trichoniscus pusillus</i>	Eberly (1953)
IOWA, IA (6)	
<i>Armadillidium nasatum</i>	Longnecker (1923)
<i>Armadillidium vulgare</i>	Longnecker (1923)
<i>Cylisticus convexus</i>	Longnecker (1923)
<i>Porcellio scaber</i>	Longnecker (1923)
<i>Porcellionides pruinosus</i>	Longnecker (1923)
<i>Trachelipus rathkii</i>	Longnecker (1923)
KANSAS, KS (4)	
<i>Armadillidium nasatum</i>	Hatch (1947)
<i>Armadillidium vulgare</i>	Hatch (1947)
<i>Cylisticus convexus</i>	Hatch (1947)
<i>Porcellionides pruinosus</i>	Richardson (1905)
KENTUCKY, KY (11)	
<i>Armadillidium nasatum</i>	Cole (1959)
<i>Armadillidium vulgare</i>	Richardson (1905)
<i>Cylisticus convexus</i>	Vandel (1950)
<i>Haplophthalmus danicus</i>	Vandel (1965)
<i>Ligidium elrodii</i>	Cole (1959)
<i>Miktoniscus mammothensis</i>	Muchmore (1964)
<i>Miktoniscus racovitzai racovitzai</i>	Vandel (1965)

<i>Porcellio laevis</i>	Cole (1959)
<i>Porcellio scaber</i>	Hatch (1947)
<i>Porcellionides pruinosus</i>	Garthwaite and Sassaman (1985)
<i>Trachelipus rathkii</i>	Hatch (1947)
LOUISIANA, LA (8)	
<i>Armadillidium vulgare</i>	Richardson (1905)
<i>Ligidium elrodii</i>	Hatch (1947)
<i>Ligidium mucronatum</i>	Mulaik and Mulaik (1942)
<i>Littorophiloscia vittata</i>	Schultz (1974)
<i>Miktoniscus medcofi</i>	Mulaik and Mulaik (1942)
<i>Porcellio laevis</i>	Budde-Lund (1885)
<i>Porcellionides pruinosus</i>	Hatch (1947)
<i>Porcellionides virgatus</i>	Arcangeli (1932)
MAINE, ME (7)	
<i>Cylisticus convexus</i>	Blake (1931b)
<i>Oniscus asellus</i>	Rathbun (1905)
<i>Philoscia muscorum</i>	Blake (1931b)
<i>Porcellio scaber</i>	Richardson (1905)
<i>Porcellio spinicornis</i>	Hatch (1947)
<i>Trachelipus rathkii</i>	Rathbun (1905)
<i>Trichoniscus pusillus</i>	Blake (1931a)
MARYLAND, MD (8)	
<i>Armadillidium nasatum</i>	Smith and Goodhue (1945)
<i>Armadillidium vulgare</i>	Richardson (1905)
<i>Haplophthalmus danicus</i>	Lohmander (1927)
<i>Philoscia muscorum</i>	Schultz (1974)
<i>Porcellio scaber</i>	Richardson (1905)
<i>Porcellionides pruinosus</i>	Richardson (1905)
<i>Scyphacella arenicola</i>	Richardson (1905)
<i>Trachelipus rathkii</i>	Leistikow and Wagele (1999)
MASSACHUSETTS, MA (17)	
<i>Armadillidium nasatum</i>	Blake (1929)
<i>Armadillidium vulgare</i>	Gould (1841)
<i>Armadilloniscus ellipticus</i>	Blake (1930)
<i>Cordioniscus stebbingi</i>	Blake (1931b)
<i>Cylisticus convexus</i>	Stuxberg (1875)
<i>Ligia oceanica</i>	Blake (1931b)
<i>Littorophiloscia vittata</i>	Rathbun (1905)
<i>Miktoniscus barri</i>	Leistikow and Wagele (1999)
<i>Miktoniscus halophilus</i>	Blake (1931a)
<i>Oniscus asellus</i>	Rathbun (1905)
<i>Philoscia muscorum</i>	Harger (1880)
<i>Porcellio scaber</i>	Richardson (1905)
<i>Porcellio spinicornis</i>	Blake (1931b)
<i>Porcellionides pruinosus</i>	Richardson (1905)
<i>Scyphacella arenicola</i>	Harger (1880)

<i>Trachelipus rathkii</i>	Richardson (1905)
<i>Trichoniscus pusillus</i>	Blake (1931a)
MICHIGAN, MI (11)	
<i>Armadillidium nasatum</i>	Hatchett (1947)
<i>Armadillidium vulgare</i>	Hatch (1939)
<i>Cylisticus convexus</i>	Richardson (1905)
<i>Hyloniscus riparius</i>	Snider (1991)
<i>Ligidium elrodii</i>	Pearse (1910)
<i>Oniscus asellus</i>	Hatchett (1947)
<i>Porcellio scaber</i>	Richardson (1905)
<i>Porcellio spinicornis</i>	Hatch (1939)
<i>Porcellionides pruinosus</i>	Hatch (1939)
<i>Trachelipus rathkii</i>	Richardson (1905)
<i>Trichoniscus pusillus</i>	Hatchett (1947)
MINNESOTA, MN (8)	
<i>Armadillidium nasatum</i>	Sargent (1973)
<i>Armadillidium vulgare</i>	Sargent (1973)
<i>Cylisticus convexus</i>	Arcangeli (1932)
<i>Oniscus asellus</i>	Sargent (1973)
<i>Porcellio scaber</i>	Sargent (1973)
<i>Porcellio spinicornis</i>	Sargent (1973)
<i>Porcellionides pruinosus</i>	Sargent (1973)
<i>Trachelipus rathkii</i>	Arcangeli (1932)
MISSISSIPPI, MS (6)	
<i>Armadillidium vulgare</i>	Richardson (1905)
<i>Balloniscus brevicornis</i>	Budde-Lund (1908)
<i>Balloniscus nigricans</i>	Budde-Lund (1908)
<i>Ligia baudiniana</i>	Rapp and Rapp (1989)
<i>Porcellionides pruinosus</i>	Hatch (1947)
<i>Porcellionides virgatus</i>	Mulaik and Mulaik (1942)
MISSOURI, MO (6)	
<i>Armadillidium nasatum</i>	Hatch (1947)
<i>Armadillidium vulgare</i>	Hatch (1947)
<i>Cylisticus convexus</i>	Hatch (1947)
<i>Ligidium elrodii</i>	Hatch (1947)
<i>Porcellio scaber</i>	Hatch (1947)
<i>Porcellionides pruinosus</i>	Hatch (1947)
MONTANA, MT (4)	
<i>Armadillidium vulgare</i>	Hatch (1947)
<i>Cylisticus convexus</i>	Mulaik and Mulaik (1943)
<i>Porcellio laevis</i>	Hatch (1939)
<i>Porcellionides pruinosus</i>	Hatch (1947)
NEBRASKA, NE (10)	
<i>Armadillidium nasatum</i>	Rapp (1977)
<i>Armadillidium vulgare</i>	Swenk (1929)
<i>Cylisticus convexus</i>	Rapp (1977)

<i>Oniscus asellus</i>	Rapp (1977)
<i>Porcellio dilatatus</i>	Rapp (1977)
<i>Porcellio laevis</i>	Rapp (1977)
<i>Porcellio scaber</i>	Rapp (1977)
<i>Porcellio spinicornis</i>	Rapp (1977)
<i>Porcellionides pruinosus</i>	Rapp (1977)
<i>Trachelipus rathkii</i>	Hatch (1947)
NEVADA, NV (3)	
<i>Armadillidium vulgare</i>	Garthwaite et al. (1995)
<i>Cylisticus convexus</i>	Pearse (1914)
<i>Venezillo arizonicus</i>	Schultz (1984a)
NEW HAMPSHIRE, NH (1)	
<i>Oniscus asellus</i>	Blake (1931b)
NEW JERSEY, NJ (11)	
<i>Armadillidium nasatum</i>	Hatch (1947)
<i>Armadillidium vulgare</i>	Fowler (1912)
<i>Haplophthalmus danicus</i>	Van Name (1936)
<i>Ligia exotica</i>	Schultz and Johnson (1984)
<i>Littorophiloscia vittata</i>	Say (1818)
<i>Oniscus asellus</i>	Fowler (1912)
<i>Philoscia muscorum</i>	Van Name (1936)
<i>Porcellio laevis</i>	Fowler (1912)
<i>Porcellio scaber</i>	Richardson (1905)
<i>Scyphacella arenicola</i>	Richardson (1905)
<i>Trachelipus rathkii</i>	Hatch (1947)
NEW MEXICO, NM (6)	
<i>Armadillidium vulgare</i>	Moore (1983)
<i>Brackenridgia cavernarum</i>	Nicholas (1960)
<i>Cylisticus convexus</i>	Richardson (1905)
<i>Haplophthalmus danicus</i>	Vandel (1965)
<i>Porcellio laevis</i>	Richardson (1905)
<i>Porcellionides pruinosus</i>	Richardson (1905)
NEW YORK, NY (20)	
<i>Androniscus dentiger</i>	Muchmore (1970b)
<i>Armadillidium nasatum</i>	Stoller (1902)
<i>Armadillidium vulgare</i>	DeKay (1846)
<i>Armadilloniscus ellipticus</i>	Richardson (1905)
<i>Cylisticus convexus</i>	Fitch (1856)
<i>Haplophthalmus danicus</i>	Muchmore (1957)
<i>Hyloniscus riparius</i>	Muchmore (1957)
<i>Ligidium elrodii</i>	Stoller (1902)
<i>Littorophiloscia vittata</i>	Richardson (1905)
<i>Miktoniscus medcofi</i>	Muchmore (1957)
<i>Oniscus asellus</i>	Richardson (1905)
<i>Philoscia muscorum</i>	Muchmore (1970b)
<i>Platyarthrus hoffmannseggii</i>	Muchmore (1957)

<i>Porcellio laevis</i>	Van Name (1936)
<i>Porcellio scaber</i>	Richardson (1905)
<i>Porcellio spinicornis</i>	Fitch (1856)
<i>Porcellionides pruinosus</i>	Fitch (1856)
<i>Trachelipus rathkii</i>	Fitch (1856)
<i>Trichoniscus pusillus</i>	Lohmander (1927)
<i>Trichoniscus pygmaeus</i>	Muchmore (1957)
NORTH CAROLINA, NC (19)	
<i>Armadillidium nasatum</i>	Schultz (1982a)
<i>Armadillidium vulgare</i>	Brimley (1938)
<i>Armadilloniscus ellipticus</i>	Schultz (1963a)
<i>Cylisticus convexus</i>	Brimley (1938)
<i>Haplophthalmus danicus</i>	Schultz (1982a)
<i>Hyloniscus riparius</i>	Schultz (1982a)
<i>Ligia exotica</i>	Richardson (1905)
<i>Ligidium blueridgensis</i>	Schultz (1964)
<i>Ligidium elrodii</i>	Brimley (1938)
<i>Littorophiloscia vittata</i>	Schultz (1963a)
<i>Miktoniscus barri</i>	Leistikow and Wagele (1999)
<i>Miktoniscus halophilus</i>	Schultz (1962)
<i>Miktoniscus medcofi</i>	Schultz (1964)
<i>Oniscus asellus</i>	Schultz (1982a)
<i>Porcellio laevis</i>	Brimley (1938)
<i>Porcellio scaber</i>	Brimley (1938)
<i>Porcellionides pruinosus</i>	Brimley (1938)
<i>Porcellionides virgatus</i>	Schultz (1982a)
<i>Trichoniscus pusillus</i>	Schultz (1982a)
NORTH DAKOTA, ND (0)	-----
OHIO, OH (14)	
<i>Armadillidium nasatum</i>	Hatch (1947)
<i>Armadillidium vulgare</i>	Richardson (1905)
<i>Cylisticus convexus</i>	Richardson (1905)
<i>Haplophthalmus danicus</i>	Keeney (1990)
<i>Hyloniscus riparius</i>	Hobbs and Flynn (1981)
<i>Miktoniscus medcofi</i>	Muchmore (1964)
<i>Porcellio laevis</i>	Richardson (1905)
<i>Porcellio scaber</i>	Richardson (1905)
<i>Porcellionides pruinosus</i>	Richardson (1905)
<i>Trachelipus rathkii</i>	Richardson (1905)
<i>Trichoniscus pusillus</i>	Keeney (1990)
<i>Trichoniscus pygmaeus</i>	Hobbs and Flynn (1981)
<i>Trichorhina tomentosa</i>	Keeney (1990)
<i>Venezillo parvus</i>	Keeney (1990)
OKLAHOMA, OK (5)	
<i>Amerigoniscus centralis</i>	Vandel (1978)
<i>Armadillidium vulgare</i>	Richardson (1905)

<i>Miktoniscus oklahomensis</i>	Vandel (1965)
<i>Porcellio laevis</i>	Richardson (1905)
<i>Porcellionides pruinosus</i>	Richardson (1905)
OREGON, OR (13)	
<i>Alloniscus perconvexus</i>	Richardson (1905)
<i>Amerigoniscus malheurensis</i>	Schultz (1982a)
<i>Amerigoniscus rothi</i>	Vandel (1953)
<i>Armadillidium vulgare</i>	Hatch (1947)
<i>Cordioniscus stebbingi</i>	Hatch (1947)
<i>Ligia pallasii</i>	Hatch (1947)
<i>Ligidium gracile</i>	Arcangeli (1932)
<i>Oniscus asellus</i>	Hatch (1947)
<i>Oregoniscus nearcticus</i>	Arcangeli (1932)
<i>Porcellio dilatatus</i>	Hatch (1947)
<i>Porcellio scaber</i>	Dana (1853)
<i>Porcellionides pruinosus</i>	Hatch (1947)
<i>Trachelipus rathkii</i>	Hatch (1939)
PENNSYLVANIA, PA (8)	
<i>Armadillidium nasatum</i>	Hatch (1947)
<i>Armadillidium vulgare</i>	Fowler (1912)
<i>Cylisticus convexus</i>	Hatch (1947)
<i>Hyloniscus riparius</i>	Schultz (1965)
<i>Oniscus asellus</i>	Underwood (1886)
<i>Porcellio scaber</i>	Hatch (1947)
<i>Trachelipus rathkii</i>	Hatch (1947)
<i>Trichoniscus pusillus</i>	Lohmander (1927)
RHODE ISLAND, RI (8)	
<i>Armadillidium vulgare</i>	Rathbun (1905)
<i>Ligia oceanica</i>	Harger (1880)
<i>Oniscus asellus</i>	Rathbun (1905)
<i>Philoscia muscorum</i>	Blake (1931b)
<i>Porcellio scaber</i>	Blake (1931a)
<i>Porcellio spinicornis</i>	Blake (1931a)
<i>Scyphacella arenicola</i>	Richardson (1905)
<i>Trachelipus rathkii</i>	Rathbun (1905)
SOUTH CAROLINA, SC (5)	
<i>Armadillidium vulgare</i>	Richardson (1905)
<i>Ligia exotica</i>	Richardson (1905)
<i>Littorophiloscia vittata</i>	Schultz (1963a)
<i>Porcellionides pruinosus</i>	Hatch (1947)
<i>Porcellionides virgatus</i>	Schultz (1982a)
SOUTH DAKOTA, SD (0)	----
TENNESSEE, TN (9)	
<i>Amerigoniscus nicholasi</i>	Vandel (1965)
<i>Armadillidium vulgare</i>	Hatch (1939)
<i>Cylisticus convexus</i>	Hatch (1939)

<i>Haplophthalmus danicus</i>	Vandel (1965)
<i>Ligidium elrodii hancockensis</i>	Schultz (1970)
<i>Miktoniscus barri</i>	Vandel (1965)
<i>Miktoniscus medcofi</i>	Vandel (1965)
<i>Porcellio spinicornis</i>	Hatch (1939)
<i>Porcellionides pruinosus</i>	Hatch (1947)
TEXAS, TX (27)	
<i>Agabiformius lentus</i>	Mulaik and Mulaik (1943)
<i>Amerigoniscus gipsocolus</i>	Vandel (1965) [not NM]
<i>Armadillidium vulgare</i>	Richardson (1905)
<i>Brackenridgia cavernarum</i>	Ulrich (1902)
<i>Brackenridgia reddelli</i>	Vandel (1965)
<i>Cylisticus convexus</i>	Schultz (1965)
<i>Ligia baudiniana</i>	Rapp and Rapp (1989)
<i>Ligia exotica</i>	Mulaik and Mulaik (1942)
<i>Littorophiloscia vittata</i>	Schultz (1983)
<i>Oniscus asellus</i>	Mulaik (1960)
<i>Philoscia geiseri</i>	Van Name (1936)
<i>Platyarthrus aiasensis</i>	Garthwaite and Taiti (1989)
<i>Porcellio alpinus</i>	Mulaik and Mulaik (1943)
<i>Porcellio conchus</i>	Mulaik and Mulaik (1943)
<i>Porcellio grandeus</i>	Mulaik and Mulaik (1943)
<i>Porcellio laevis</i>	Richardson (1905)
<i>Porcellio ragusae</i>	Van Name (1940)
<i>Porcellionides pruinosus</i>	Richardson (1905)
<i>Porcellionides virgatus</i>	Arcangeli (1932)
<i>Proporcellio quadriseriatus</i>	Van Name (1936)
<i>Rhyscotus texensis</i>	Richardson (1905)
<i>Trachelipus rathkii</i>	Richardson (1905)
<i>Trichoniscus orchidicola</i>	Mulaik (1960)
<i>Trichorhina triocis</i>	Mulaik and Mulaik (1943)
<i>Venezillo apacheus</i>	Mulaik and Mulaik (1942)
<i>Venezillo chamberlini</i>	Mulaik and Mulaik (1942)
<i>Venezillo tanneri</i>	Mulaik and Mulaik (1942)
UTAH, UT (7)	
<i>Armadillidium vulgare</i>	Mulaik and Mulaik (1942)
<i>Cylisticus convexus</i>	Mulaik and Mulaik (1943)
<i>Haplophthalmus danicus</i>	Mulaik and Mulaik (1943)
<i>Porcellio laevis</i>	Mulaik and Mulaik (1942)
<i>Porcellio scaber</i>	Mulaik and Mulaik (1943)
<i>Porcellionides pruinosus</i>	Richardson (1905)
<i>Trachelipus rathkii</i>	Mulaik and Mulaik (1943)
VERMONT, VT (8)	
<i>Armadillidium vulgare</i>	Bell (1971)
<i>Cylisticus convexus</i>	Hatch (1947)
<i>Oniscus asellus</i>	Bell (1971)

<i>Porcellio scaber</i>	Bell (1971)
<i>Porcellio spinicornis</i>	Hatch (1947)
<i>Porcellionides pruinosus</i>	Bell (1971)
<i>Trachelipus rathkii</i>	Bell (1971)
<i>Trichoniscus pusillus</i>	Bell (1971)
VIRGINIA, VA (13)	
<i>Amerigoniscus henroti</i>	Vandel (1950)
<i>Armadillidium nasatum</i>	Hatch (1947)
<i>Armadillidium vulgare</i>	Richardson (1905)
<i>Cylisticus convexus</i>	Hatch (1947)
<i>Halophiloscia couchii</i>	Lemos de Castro (1962)
<i>Haplophthalmus danicus</i>	Vandel (1965)
<i>Ligidium elrodii leensis</i>	Schultz (1970)
<i>Ligidium elrodii scottensis</i>	Schultz (1970)
<i>Miktoniscus medcofi</i>	Vandel (1965)
<i>Miktoniscus racovitzai racovitzai</i>	Vandel (1965)
<i>Porcellio scaber</i>	Fowler (1912)
<i>Porcellionides pruinosus</i>	Richardson (1905)
<i>Trichoniscus pusillus</i> ssp. <i>provisorius</i>	Vandel (1965)
WASHINGTON, WA (16)	
<i>Alloniscus perconvexus</i>	Hatch (1947)
<i>Armadillidium vulgare</i>	Hatch (1947)
<i>Armadilloniscus holmesi</i>	Hatch (1947)
<i>Cylisticus convexus</i>	Hatch (1947)
<i>Detonella papillicornis</i>	Hatch (1947)
<i>Ligia pallasii</i>	Richardson (1905)
<i>Ligidium gracile</i>	Arcangeli (1932)
<i>Littorophiloscia richardsonae</i>	Hatch (1947)
<i>Niambia capensis</i>	Hatch (1939)
<i>Oniscus asellus</i>	Hatch (1939)
<i>Philoscia muscorum</i>	Dailey and Hatch (1940)
<i>Porcellio dilatatus</i>	Hatch (1947)
<i>Porcellio scaber</i>	Richardson (1905)
<i>Porcellionides pruinosus</i>	Hatch (1947)
<i>Trachelipus rathkii</i>	Hatch (1939)
<i>Trichoniscus pusillus</i>	Hatch (1947)
WEST VIRGINIA, WV (4)	
<i>Armadillidium nasatum</i>	Hatch (1947)
<i>Cylisticus convexus</i>	Hatch (1947)
<i>Ligidium elrodii</i>	Schultz (1970)
<i>Miktoniscus medcofi</i>	Vandel (1965)
WISCONSIN, WI (11)	
<i>Armadillidium nasatum</i>	Jass and Klausmeier (1996)
<i>Armadillidium vulgare</i>	Jass and Klausmeier (1987)
<i>Cylisticus convexus</i>	Jass and Klausmeier (1987)
<i>Hyloniscus riparius</i>	Jass and Klausmeier (1987)

<i>Miktoniscus medcofi</i>	Jass and Klausmeier (1996)
<i>Oniscus asellus</i>	Jass and Klausmeier (1996)
<i>Porcellio scaber</i>	Jass and Klausmeier (1987)
<i>Porcellio spinicornis</i>	Jass and Klausmeier (1987)
<i>Porcellionides pruinosus</i>	Jass and Klausmeier (1987)
<i>Trachelipus rathkii</i>	Jass and Klausmeier (1987)
<i>Trichoniscus pusillus</i>	Jass and Klausmeier (1987)
WYOMING, WY (5)	
<i>Armadillidium vulgare</i>	Mulaik and Mulaik (1943)
<i>Cylisticus convexus</i>	Hatch (1939)
<i>Porcellio scaber</i>	Mulaik and Mulaik (1943)
<i>Porcellionides pruinosus</i>	Hatch (1947)
<i>Trachelipus rathkii</i>	Hatch (1939)

SECTION IV: MAPS

Maps giving the published records follow the Literature Cited section. Introductory Maps 1 and 2 identify the Canadian provinces and U.S. states by their postal code abbreviations. The species distribution maps follow, with cross-hatching marking the provinces and states from which each terrestrial isopod has been recorded. In a few cases, solid black was used to mark records that would otherwise be difficult to see. First, maps for those species which include Canada in their ranges are given, with one species per page. Following these, maps for species with no Canadian records are presented, with two species per page.

The purpose of the maps is to present preliminary visual summaries of these species distributions. The province and state records show the patchiness of terrestrial isopod occurrences as they have been reported. The current picture is unfortunately one based on scanty collecting. A more realistic plotting of their actual distributions awaits a future when the presence of terrestrial isopods in this region has been documented in greater detail than it is at present.

The 26 isopods with Canadian records are: *Alloniscus perconvexus*, *Androniscus dentiger*, *Armadillidium nasatum*, *A. vulgare*, *Cylisticus convexus*, *Detonella papillicornis*, *Haplophthalmus danicus*, *Hyloniscus riparius*, *Ligia pallasii*, *Ligidium elrodii*, *L. gracile*, *L. gracile* var. *flavum*, *Littorophiloscia richardsonae*, *L. vittata*, *Oniscus asellus*, *Philoscia muscorum*, *Porcellio dilatatus*, *P. laevis*, *P. scaber*, *P. spinicornis*, *Porcellionides pruinosus*, *Trachelipus rathkii*, *Trichoniscoides sarsi*, *Trichoniscus pusillus*, *T. p. ssp. provisorius*, and *T. pygmaeus*.

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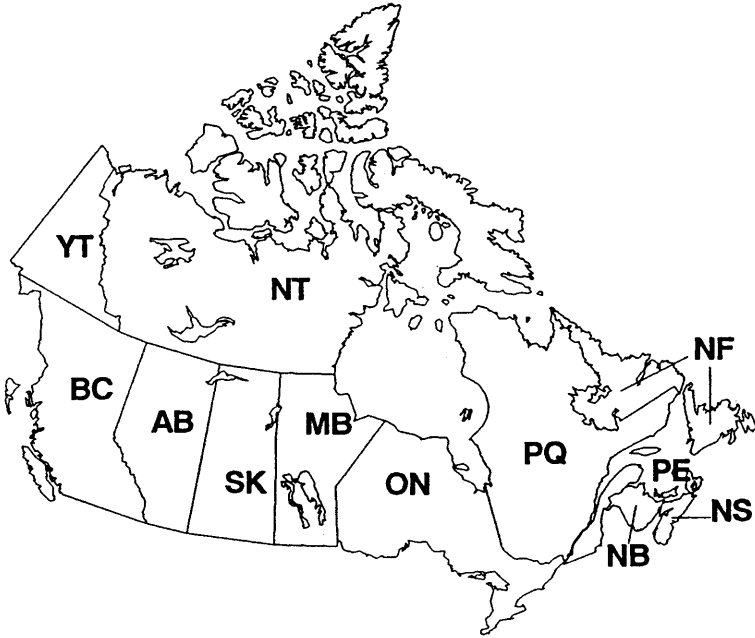
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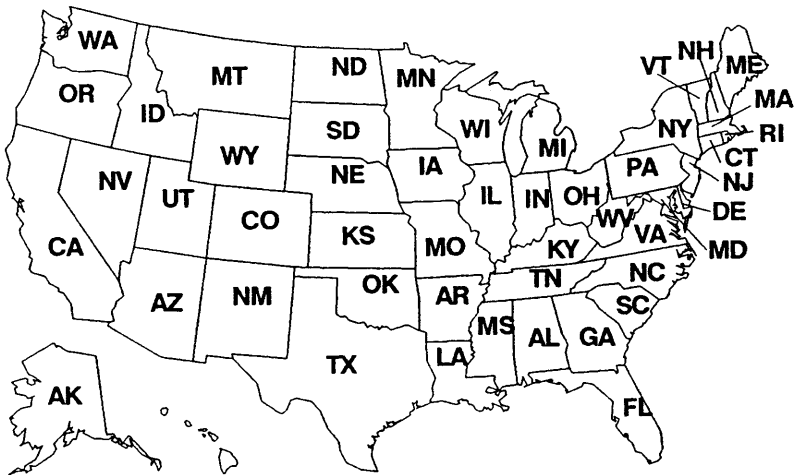
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ADDED NOTE: When Garthwaite and Sassaman (1985) described *Porcellionides floria* as a new species from California, they also included a North American map showing the distribution of their samples of *P. floria* and the closely related *P. pruinosus*. Those possible added states for *P. floria* distribution are not given in our state species lists but are in the following map.

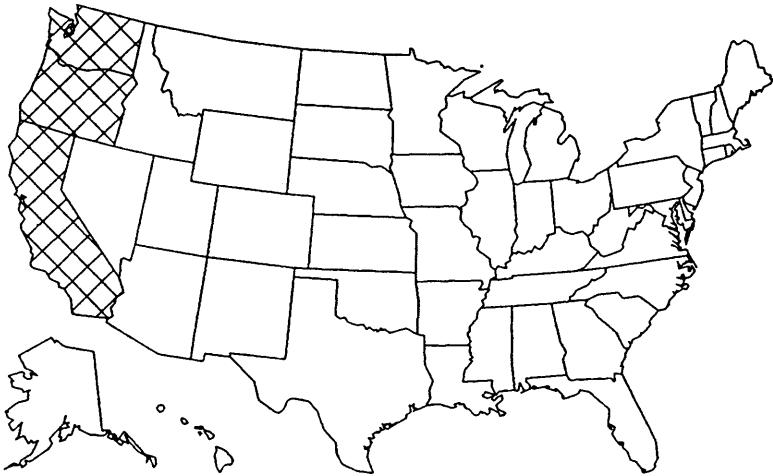
Map 1. Canadian abbreviations



Map 2. U.S. abbreviations



Alloniscus perconvexus



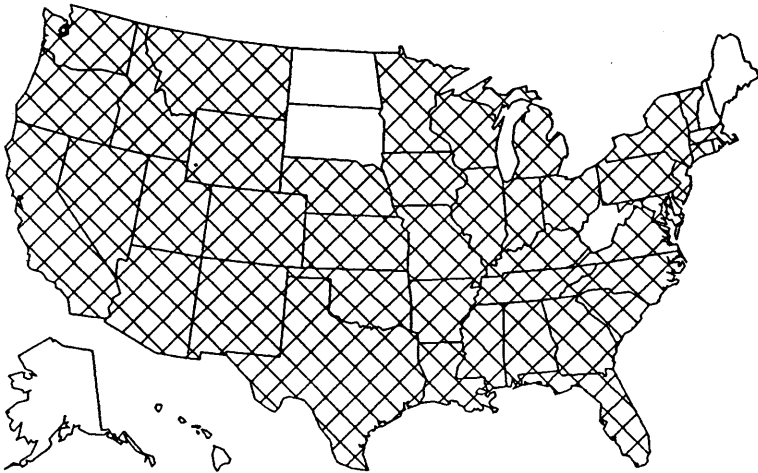
Androniscus dentiger



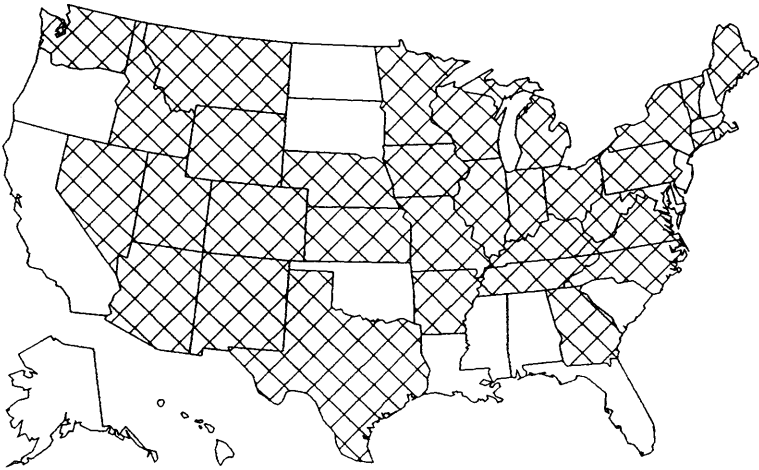
Armadillidium nasatum



Armadillidium vulgare



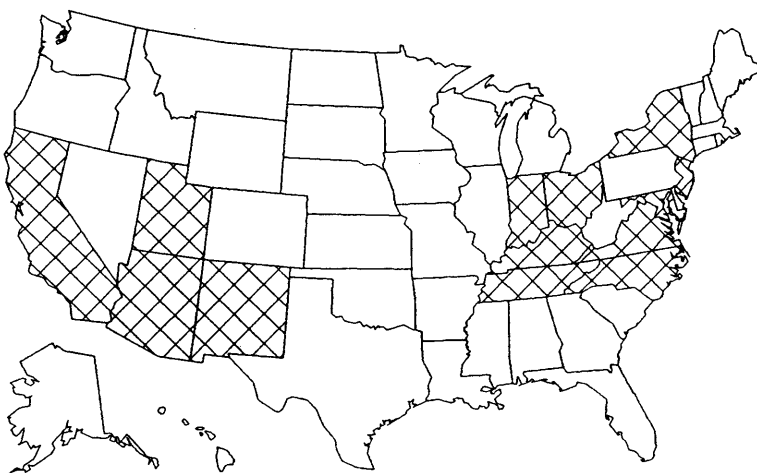
Cylisticus convexus



Detonella papillicornis



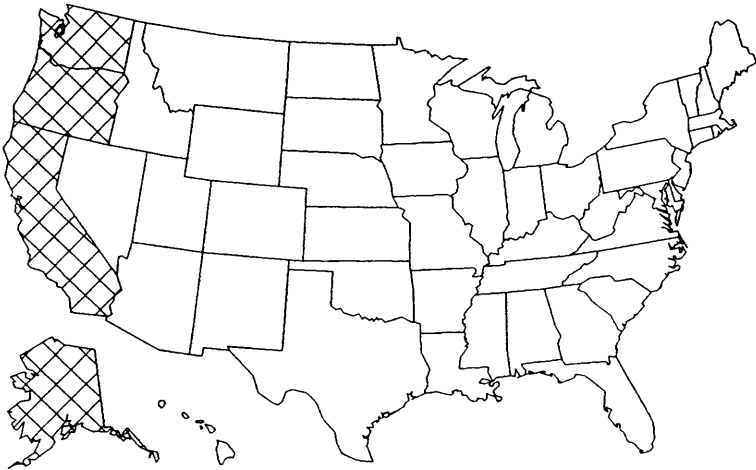
Haplophthalmus danicus



Hyloniscus riparius



Ligia pallasii



Ligidium elrodii



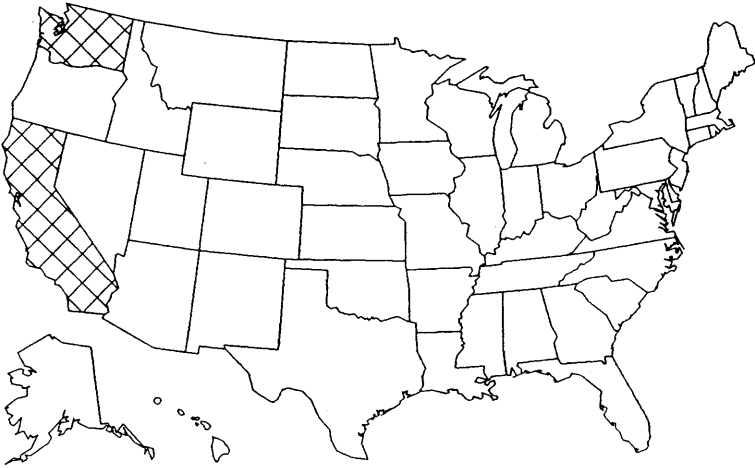
Ligidium gracile



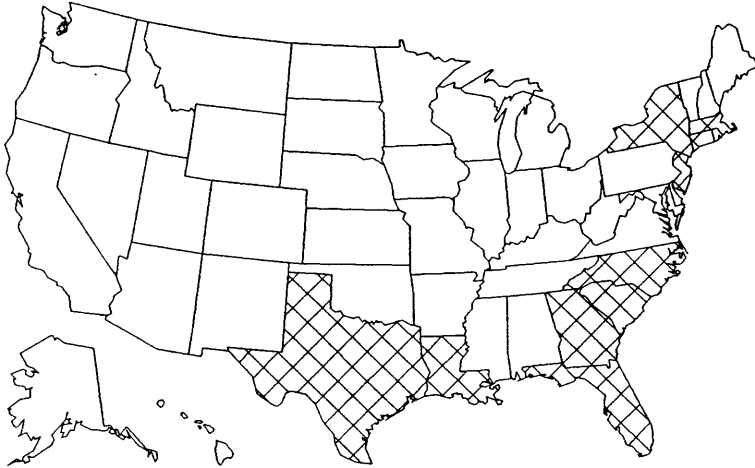
Ligidium gracile var. flavum



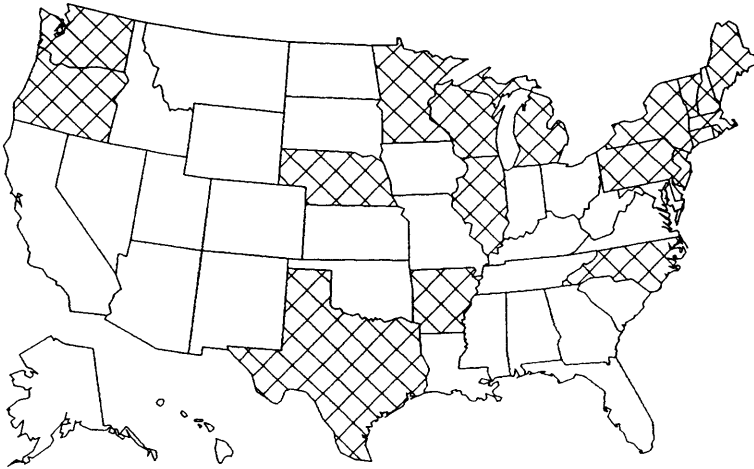
Littorophiloscia richardsonae



Littorophiloscia vittata



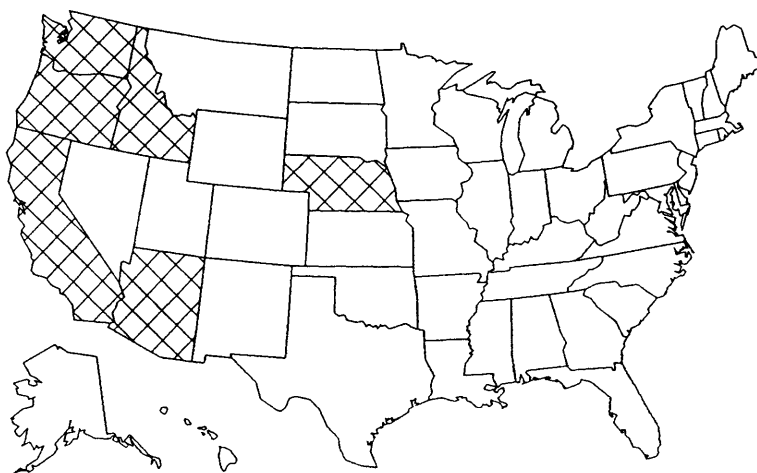
Oniscus asellus



Philoscia muscorum



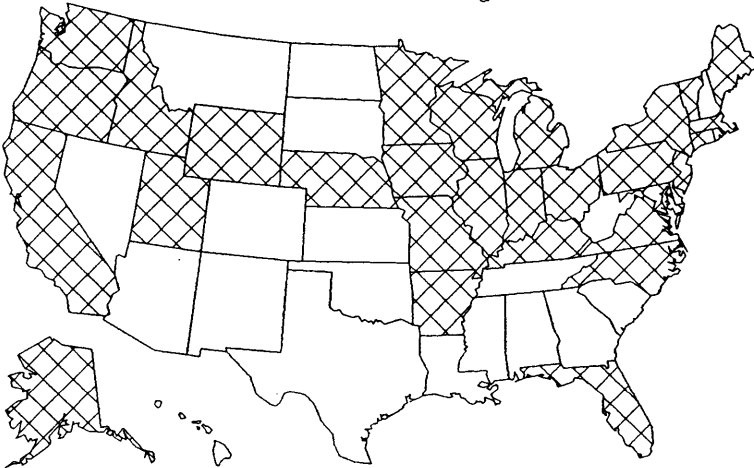
Porcellio dilatatus



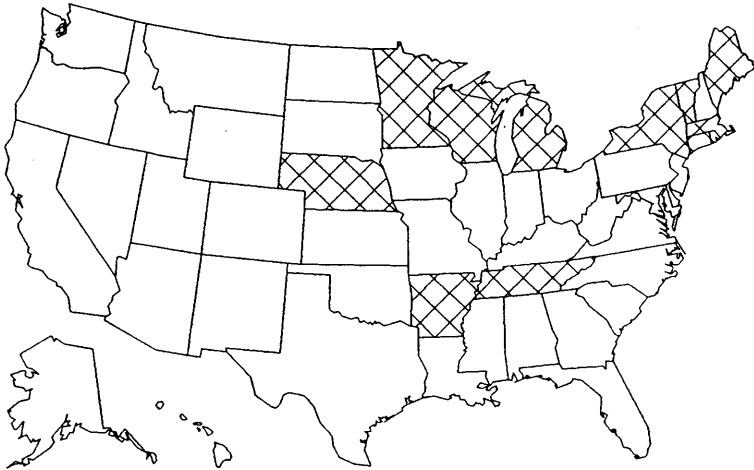
Porcellio laevis



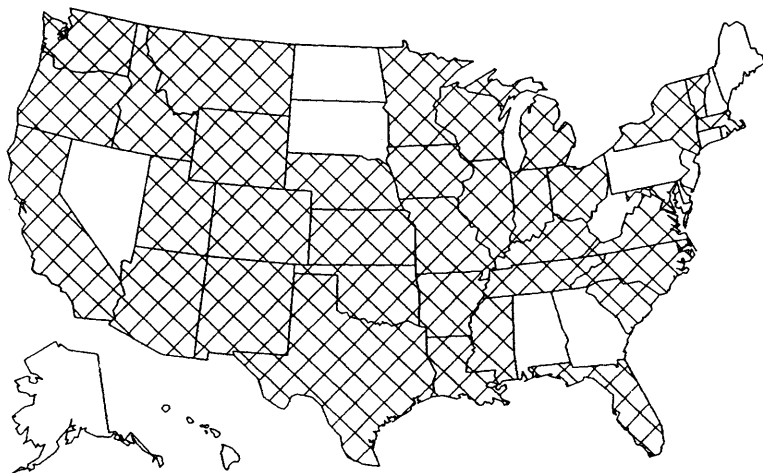
Porcellio scaber



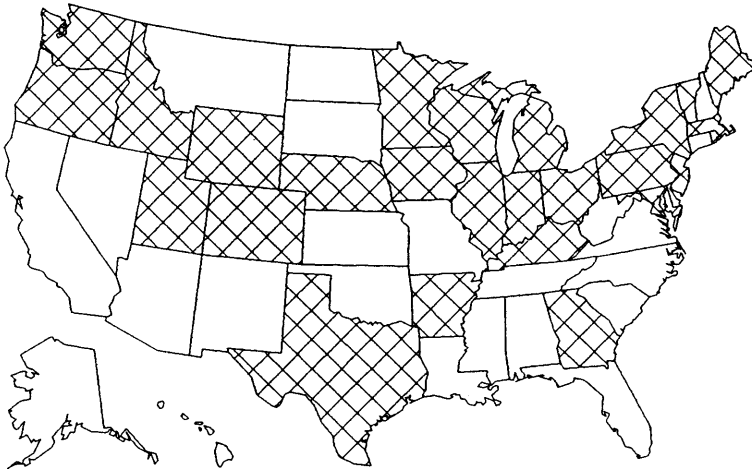
Porcellio spinicornis



Porcellionides pruinosus



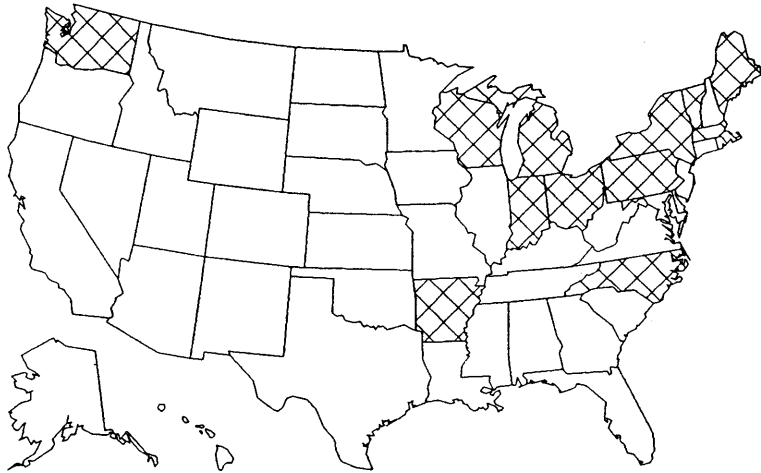
Trachelipus rathkii



Trichoniscoides sarsi



Trichoniscus pusillus

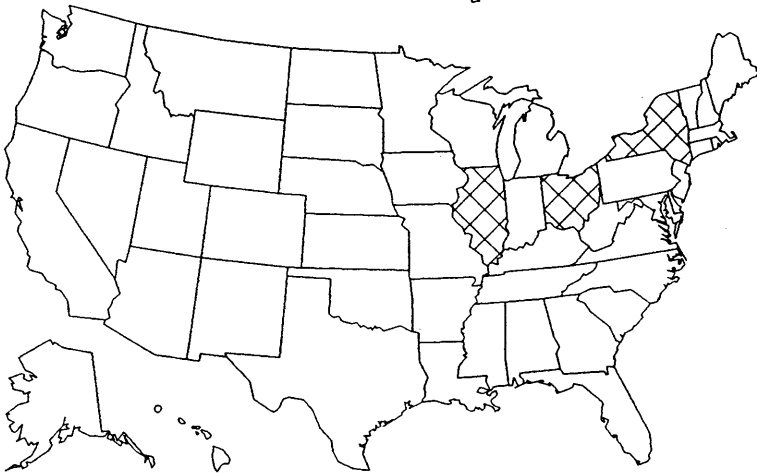


Trichoniscus pusillus

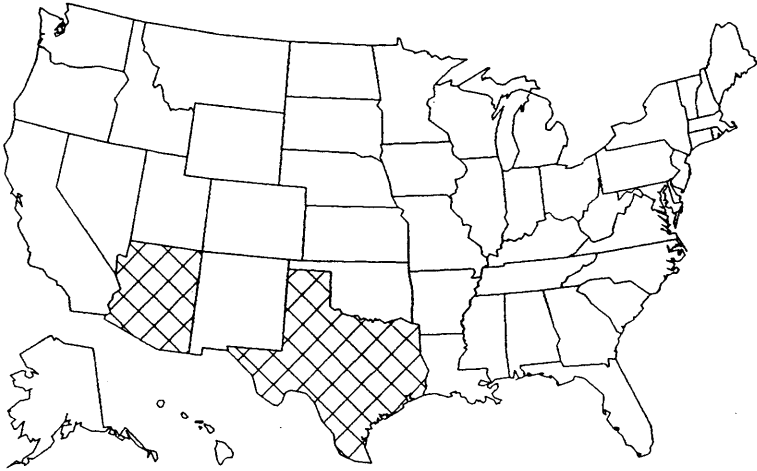
ssp. provisorius



Trichoniscus pygmaeus



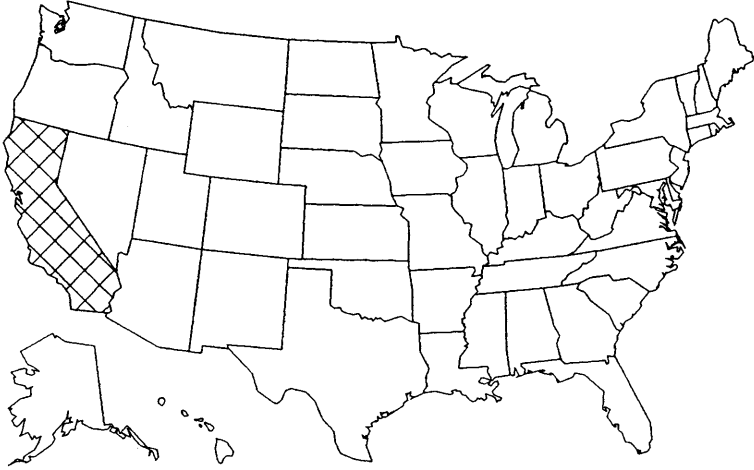
Agabiformius lentus



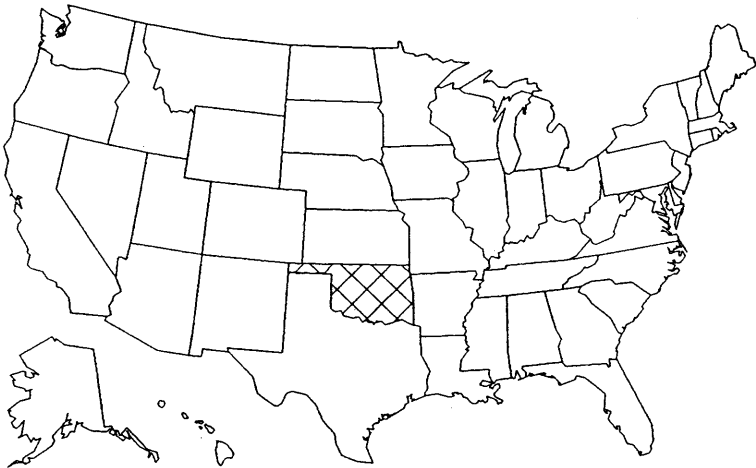
Agabiformius pusillus



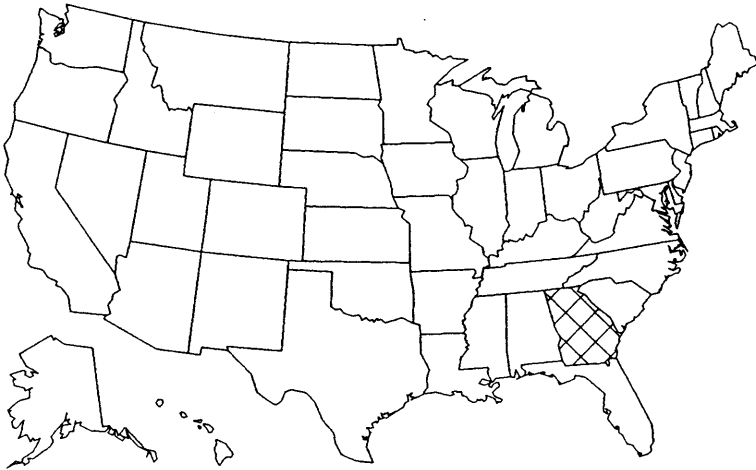
Alloniscus mirabilis



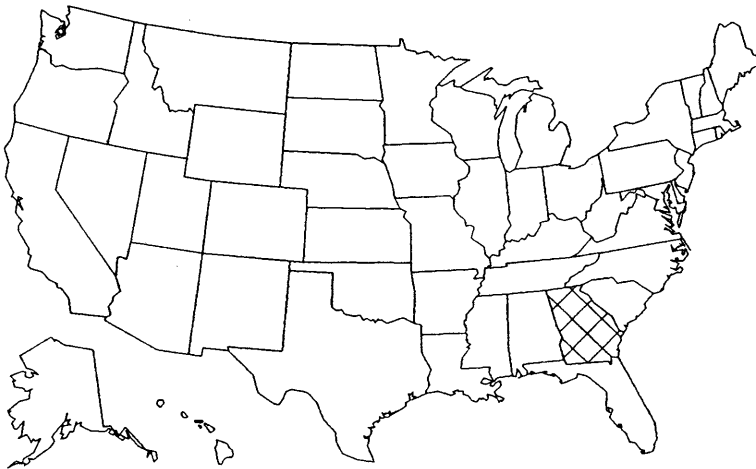
Amerigoniscus centralis



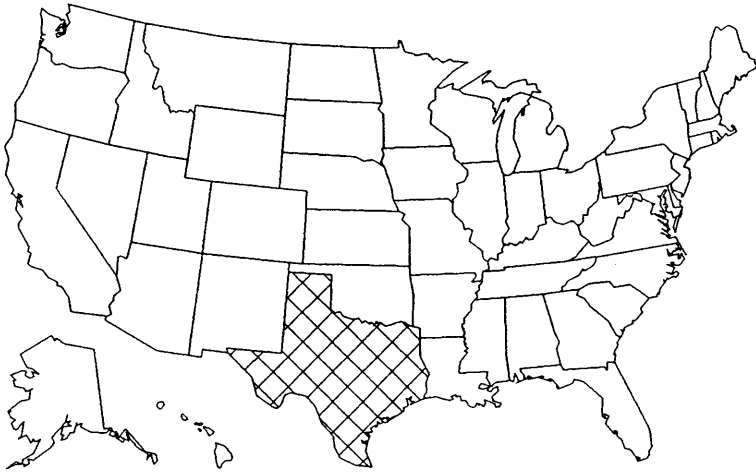
Amerigoniscus curvatus



Amerigoniscus georgiensis



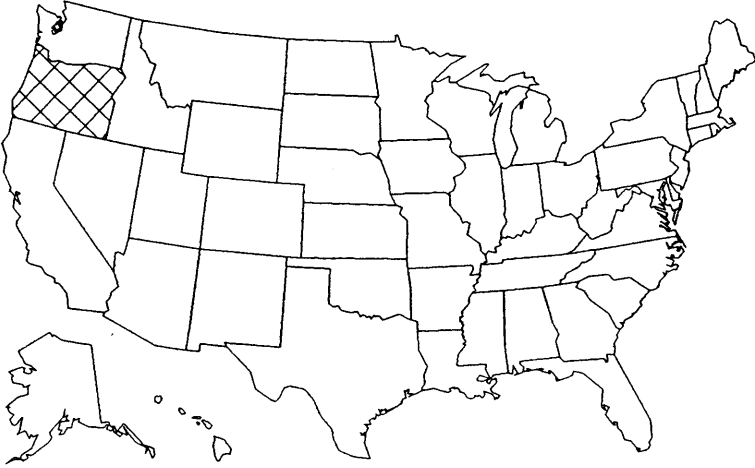
Amerigoniscus gipsocolus



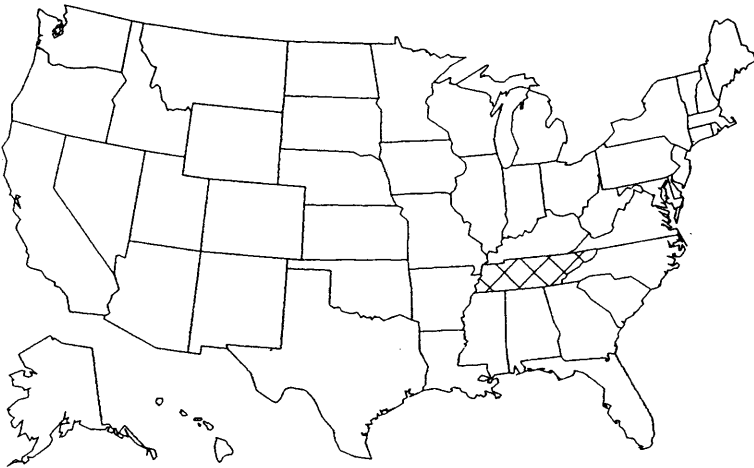
Amerigoniscus henroti



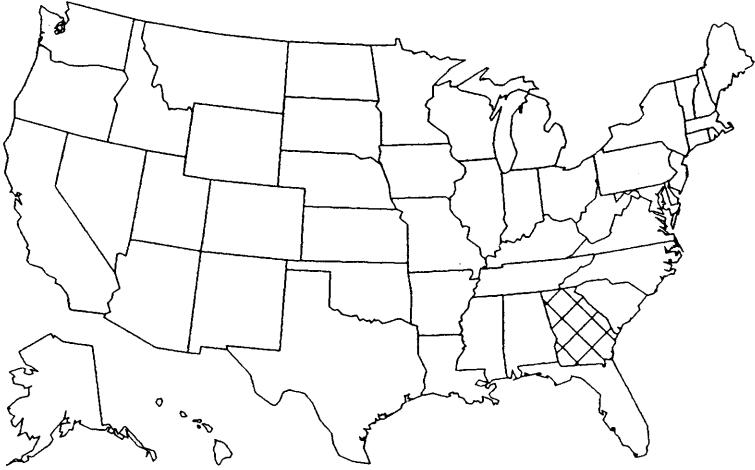
Amerigoniscus malheurensis



Amerigoniscus nicholasi



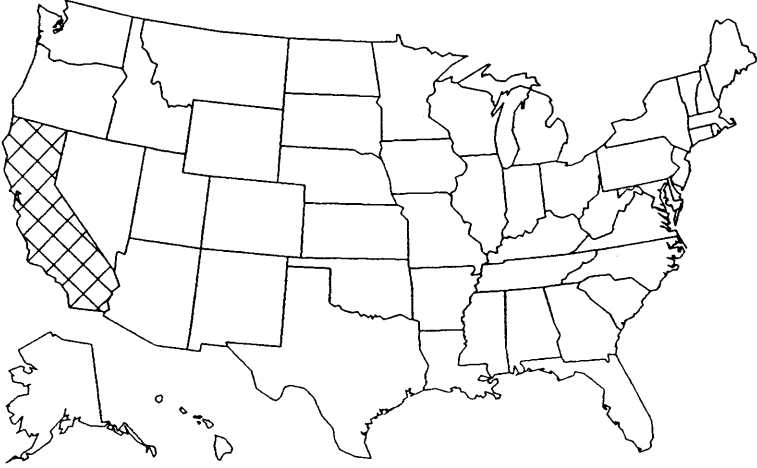
Amerigoniscus proximus



Amerigoniscus rothi



Armadillo affinis



Armadillo speciosus



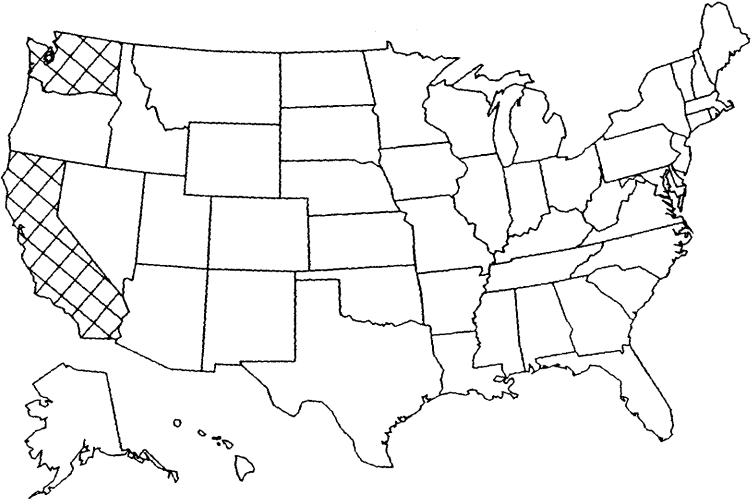
Armadilloniscus coronacapitalis



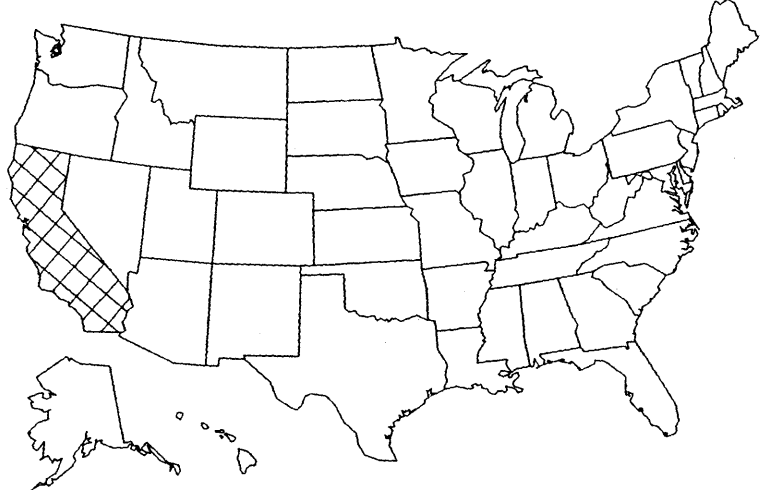
Armadilloniscus ellipticus



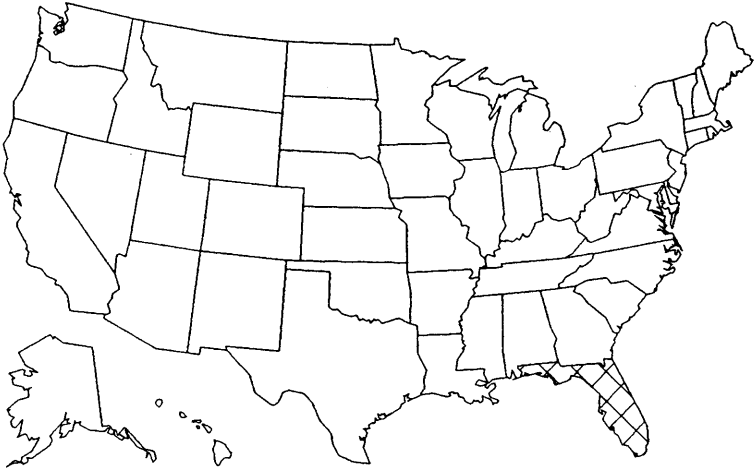
Armadilloniscus holmesi



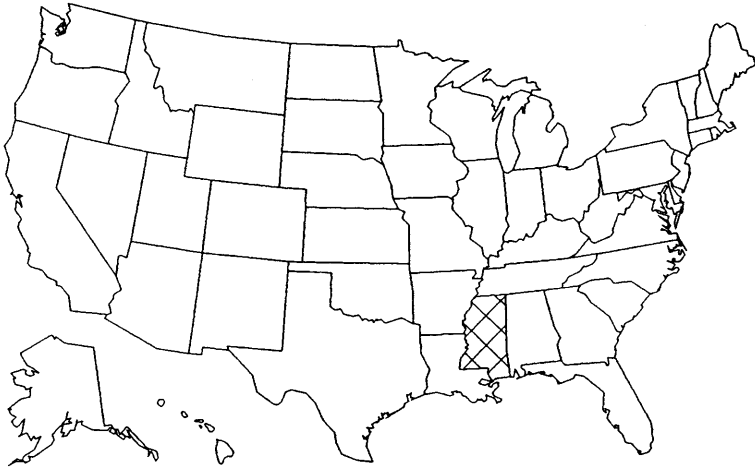
Armadilloniscus lindahli



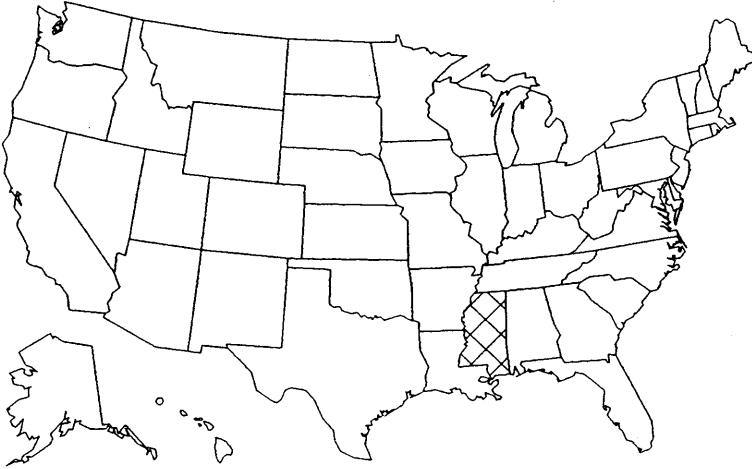
Atlantoscia floridana



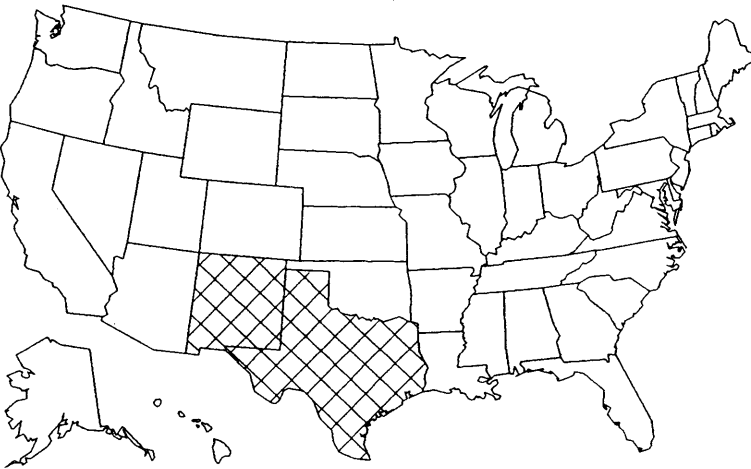
Balloniscus brevicornis



Balloniscus nigricans



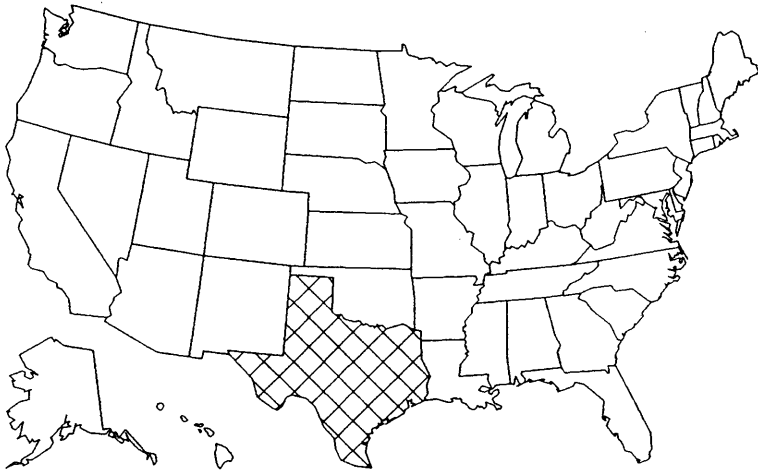
Brackenridgia cavernarum



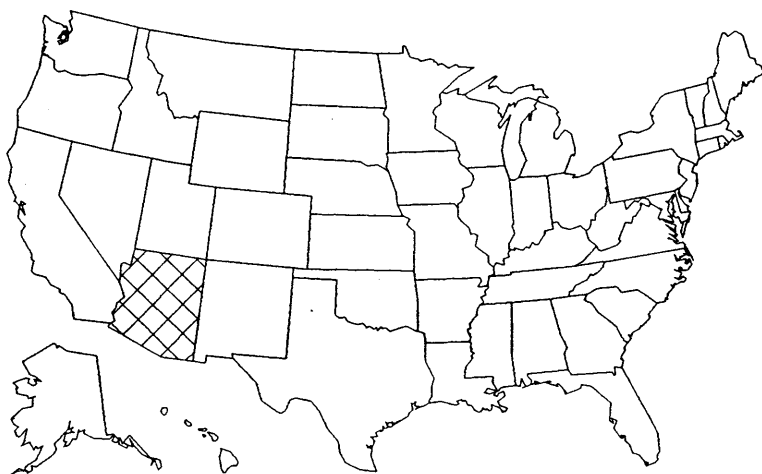
Brackenridgia heroldi



Brackenridgia reddelli



Brackenridgia sphinxensis



Cordioniscus stebbingi



Cubaris murina



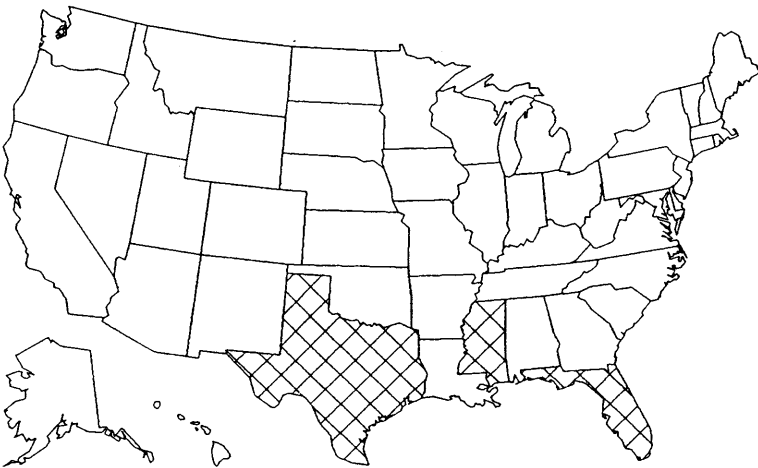
Floridoscia fusca



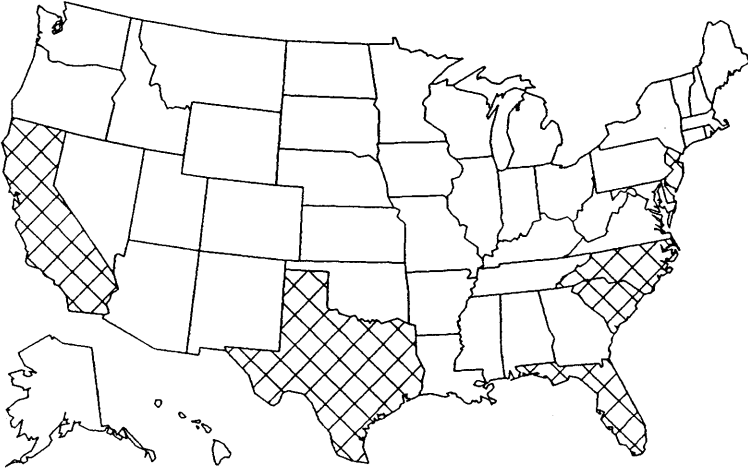
Halophiloscia couchii



Ligia baudiniana



Ligia exotica



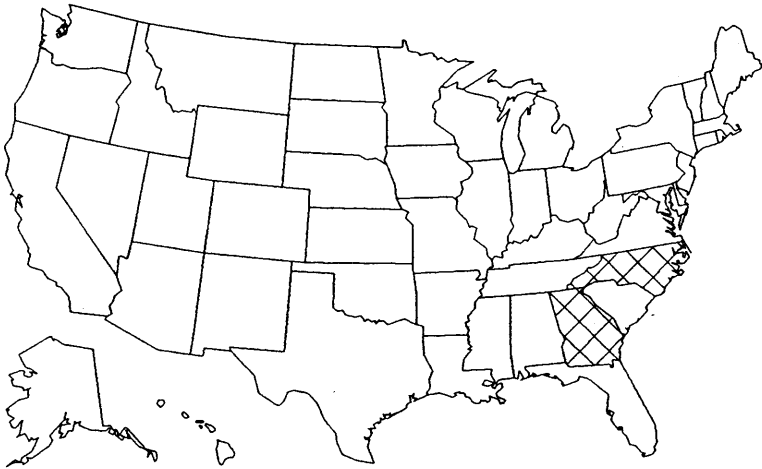
Ligia occidentalis



Ligia oceanica

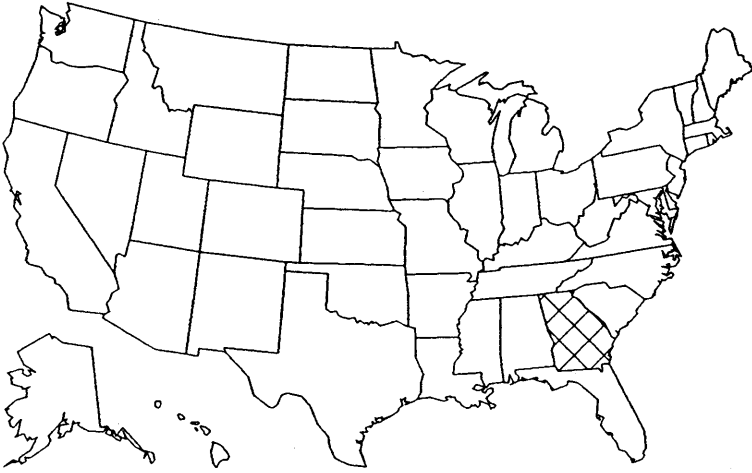


Ligidium blueridgensis



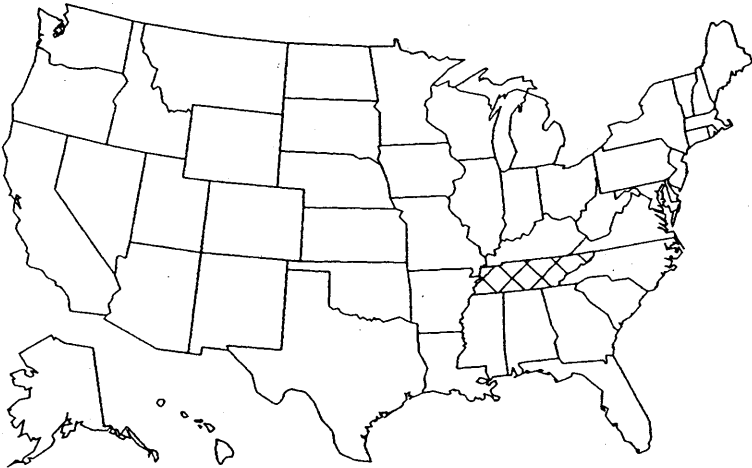
Ligidium elrodii

chatoogaensis



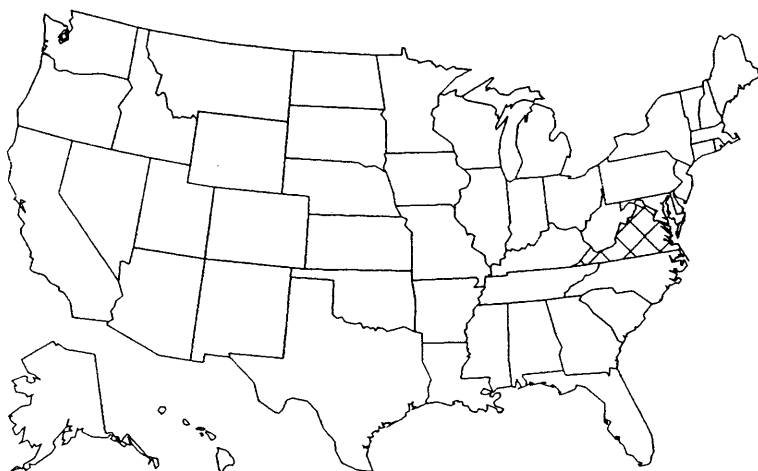
Ligidium elrodii

hancockensis



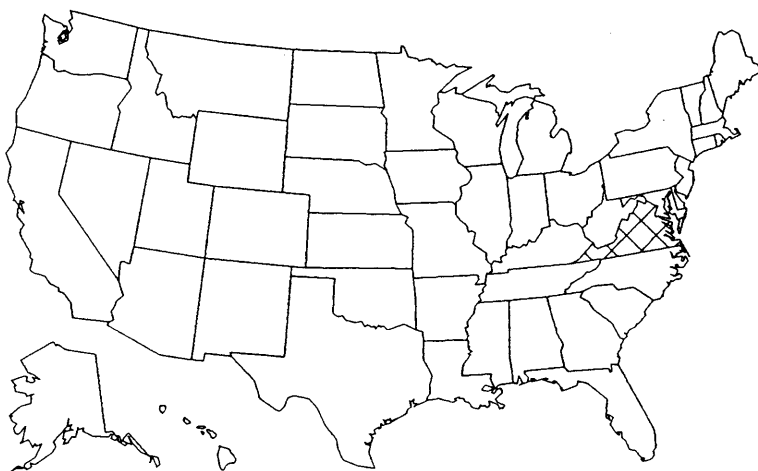
Ligidium elrodii

leensis



Ligidium elrodii

scottensis



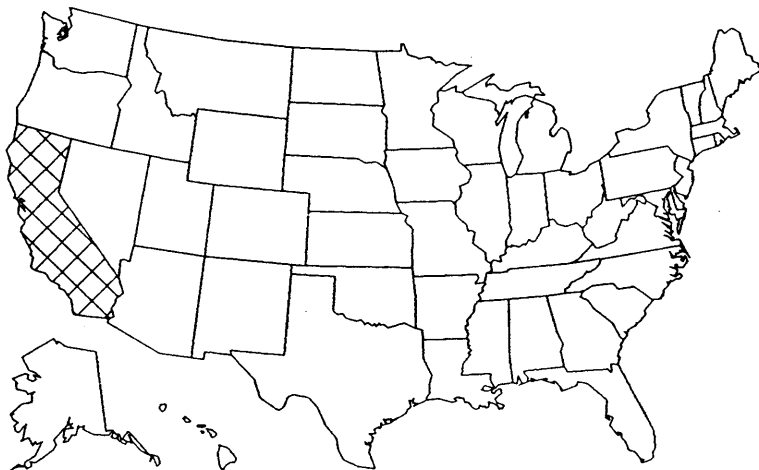
Ligidium floridanum



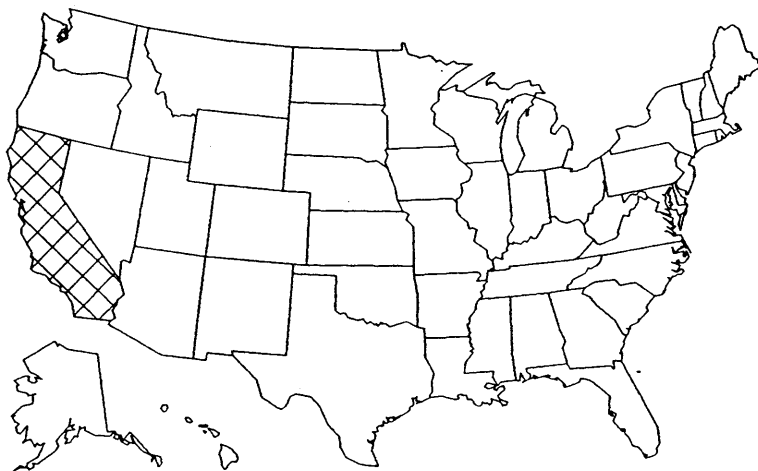
Ligidium kofoidi



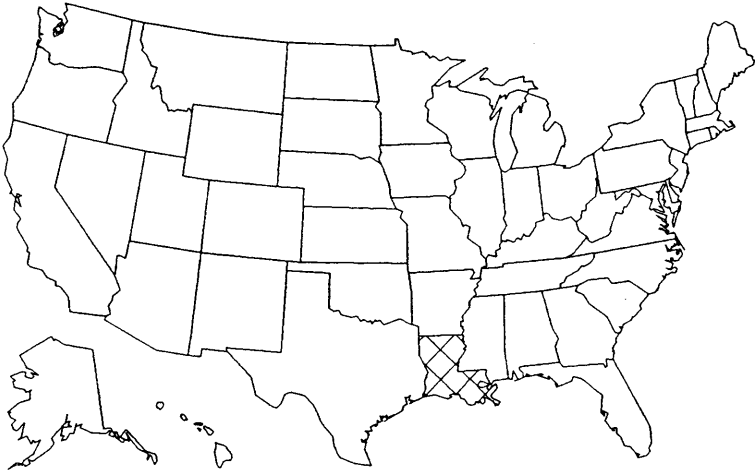
Ligidium lapetum



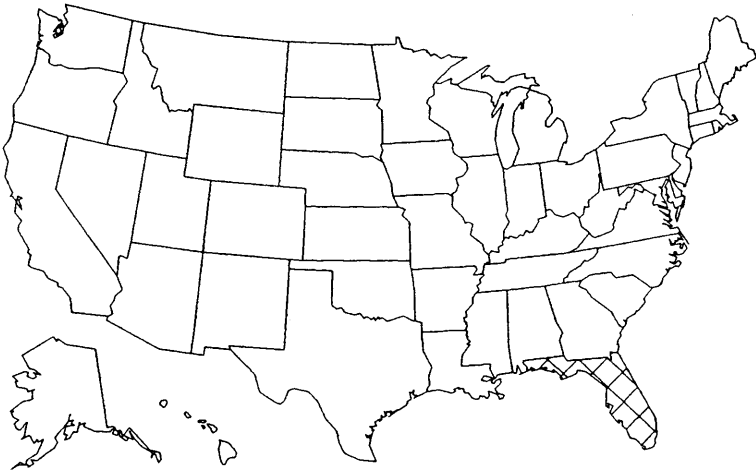
Ligidium latum



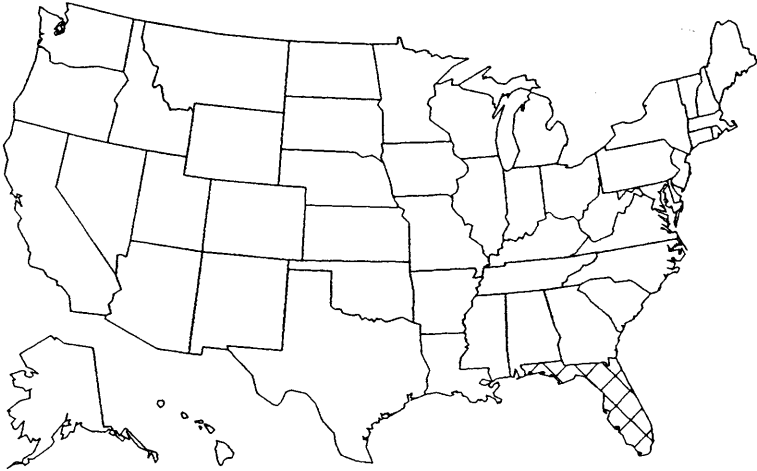
Ligidium mucronatum



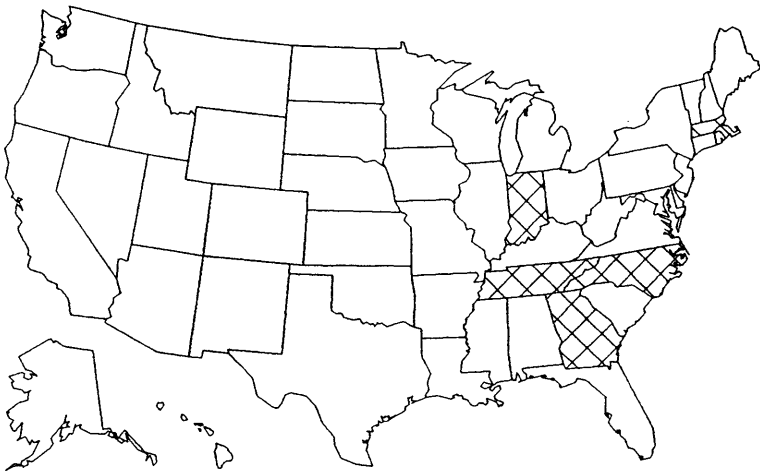
Littorophiloscia culebrae



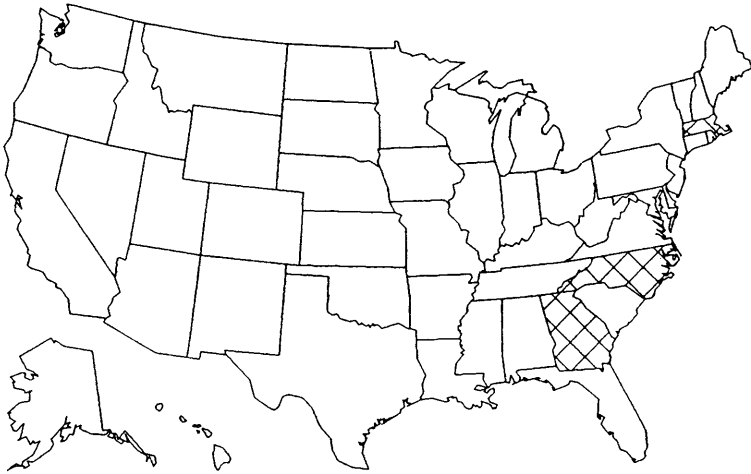
Littorophiloscia tropicalis



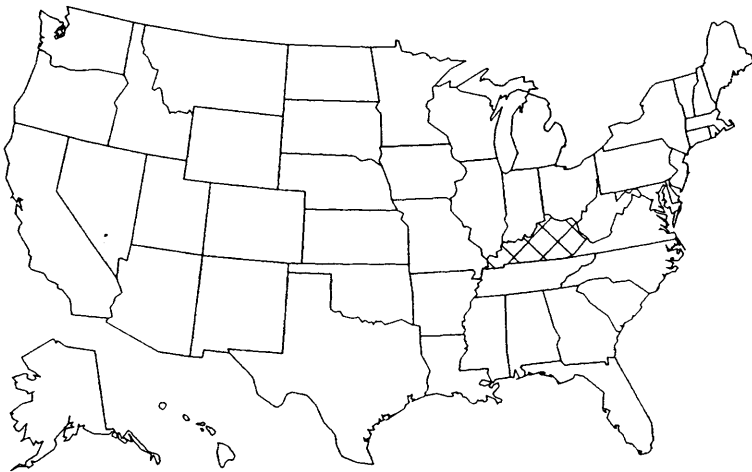
Miktoniscus barri



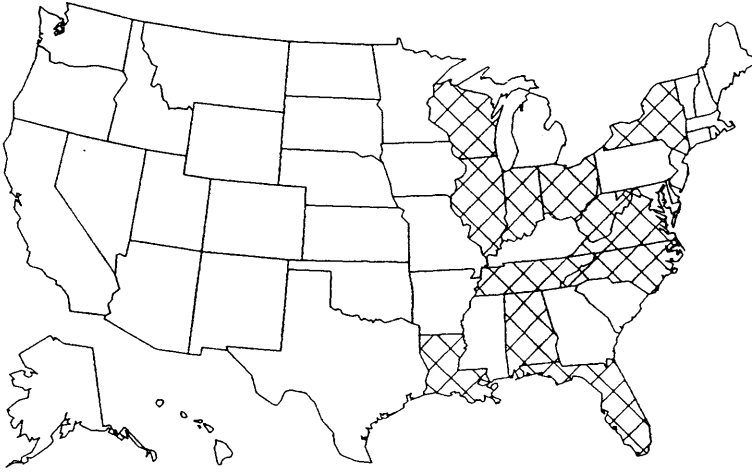
Miktoniscus halophilus



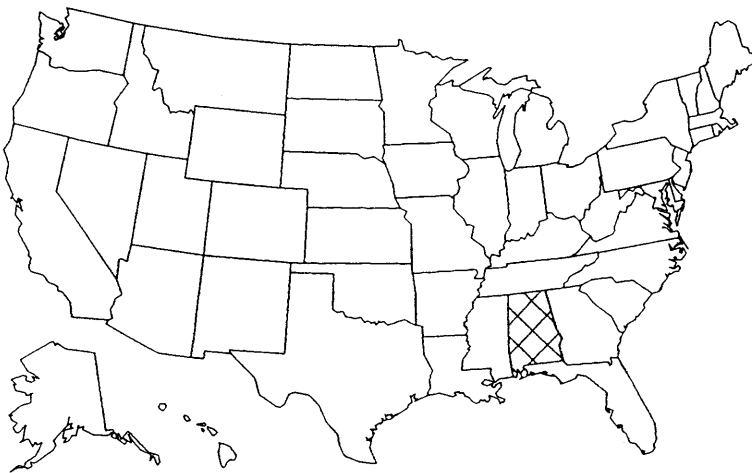
Miktoniscus mammothensis



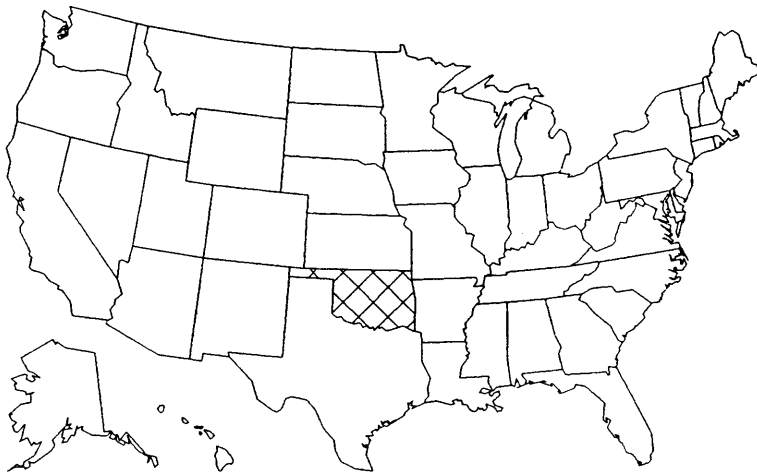
Miktoniscus medcofi



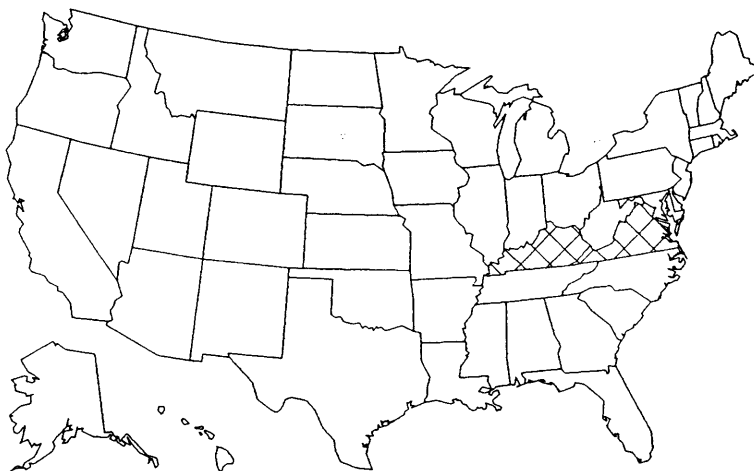
Miktoniscus morganensis



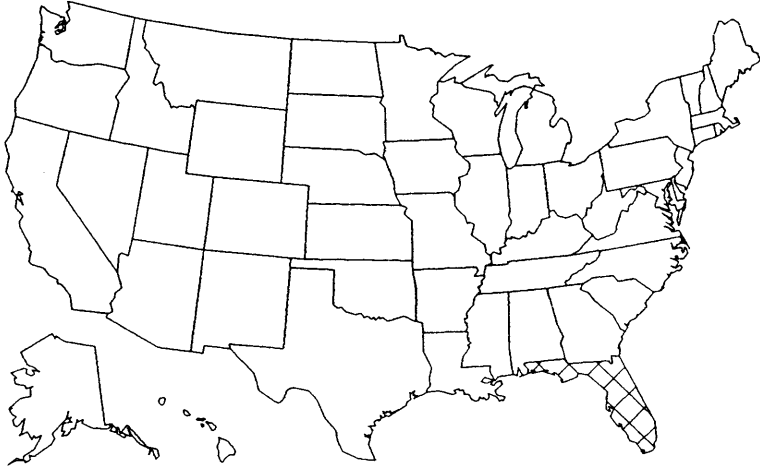
Miktoniscus oklahomensis



Miktoniscus r. racovitzai



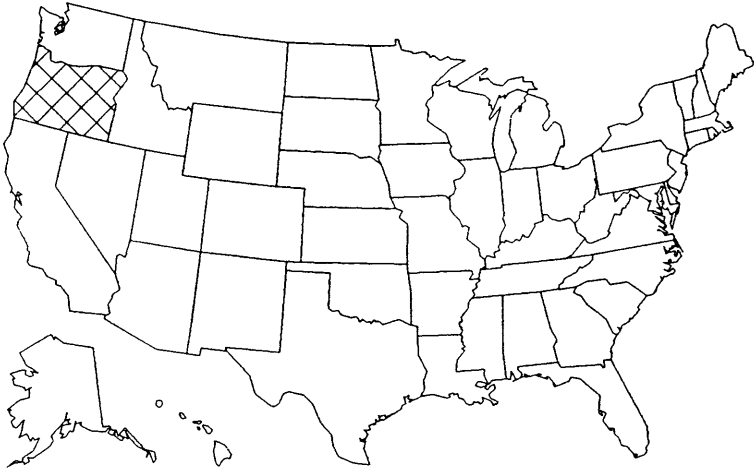
Nagurus cristatus



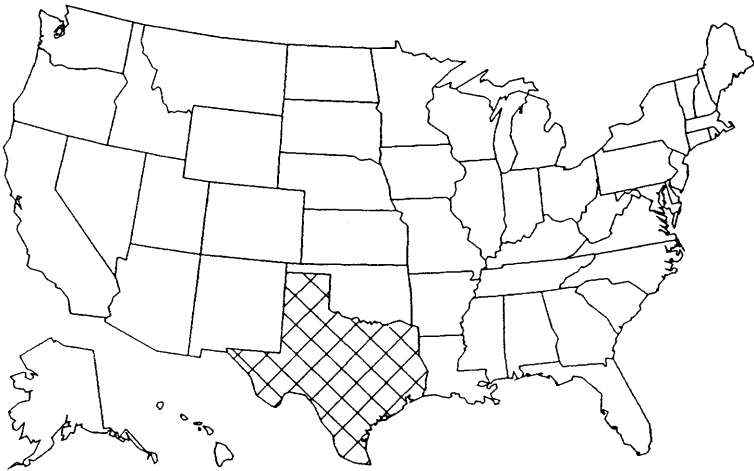
Niambia capensis



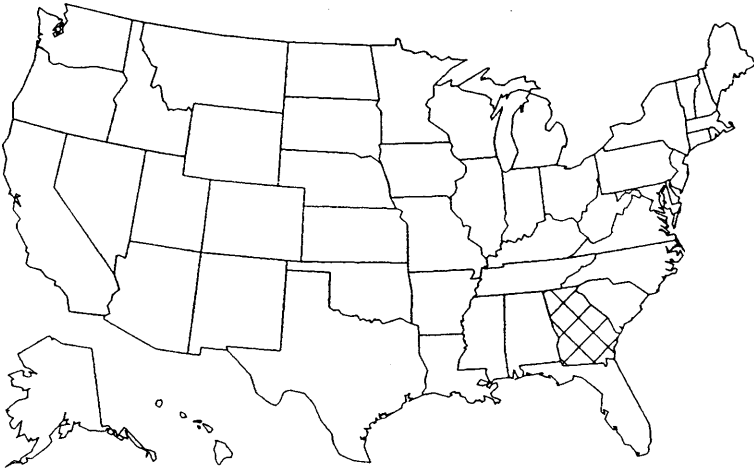
Oregoniscus nearcticus



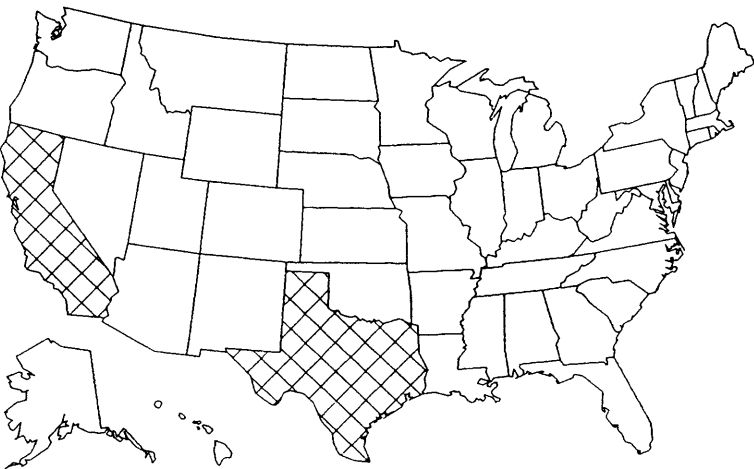
Philoscia geiseri



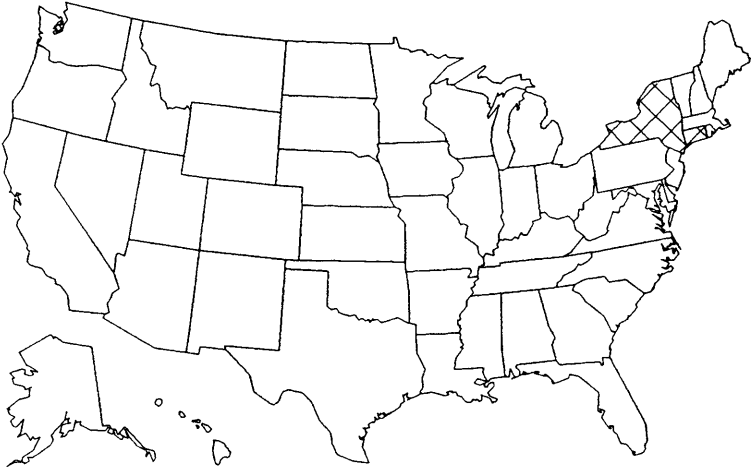
Philoscia spinosa



Platyarthrus aiasensis



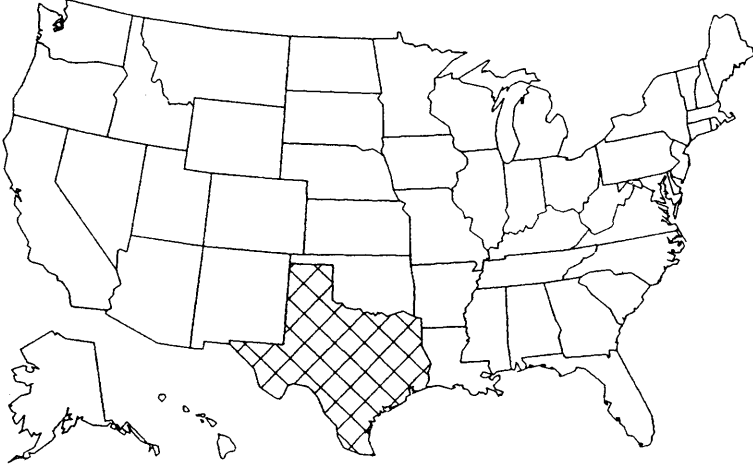
Platyarthrus hoffmannseggii



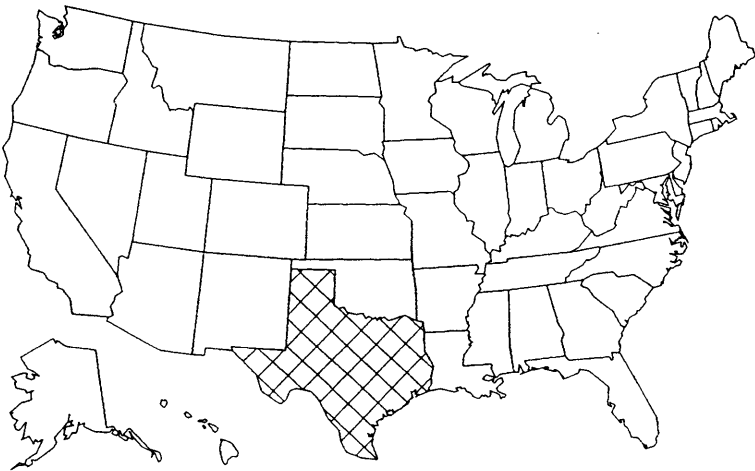
Porcellio alpinus



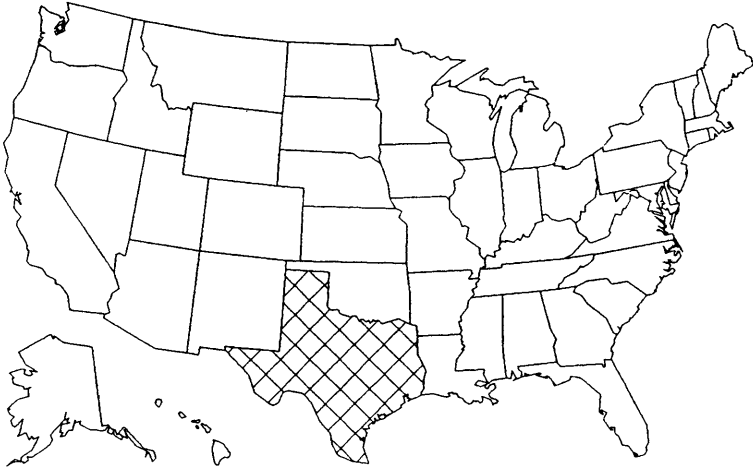
Porcellio conchus



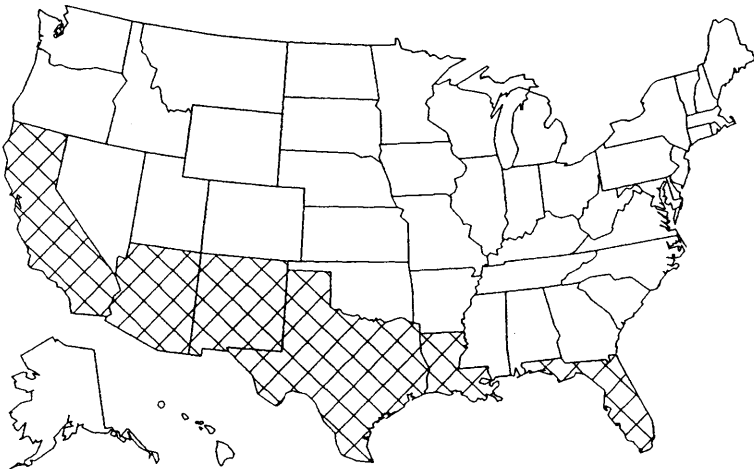
Porcellio grandeus



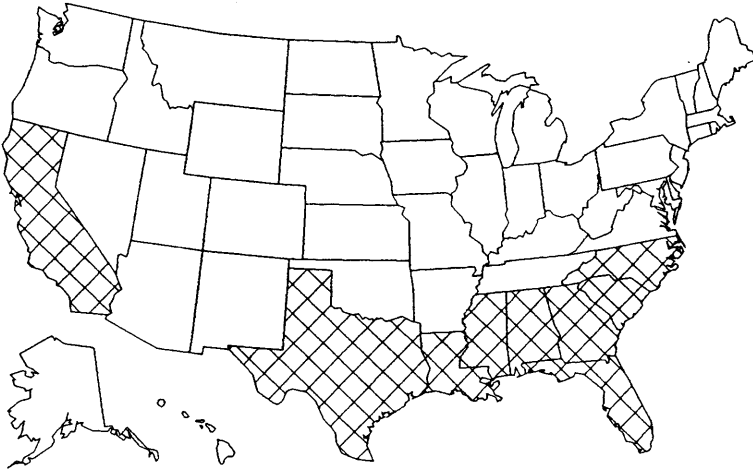
Porcellio ragusae



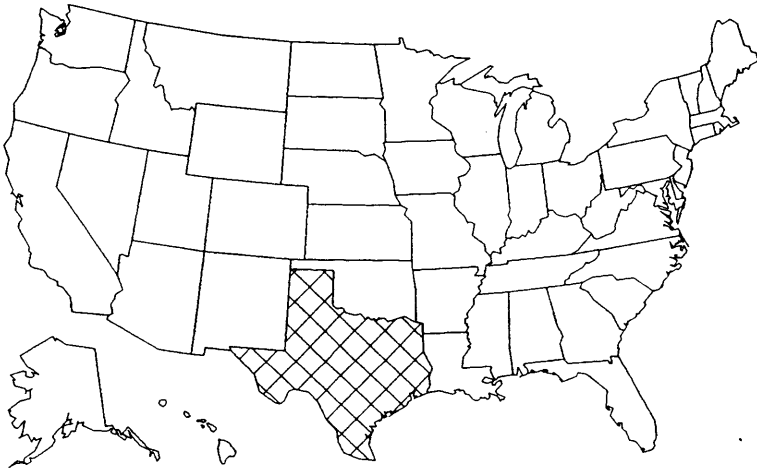
Porcellionides floria



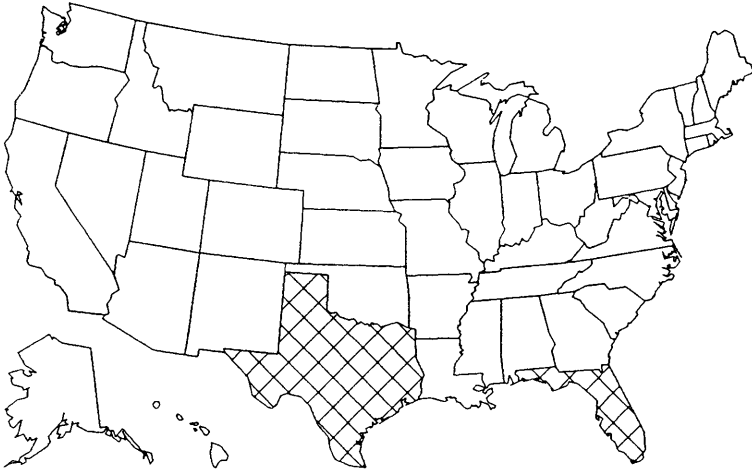
Porcellionides virgatus



Proporcellio quadriseriatus



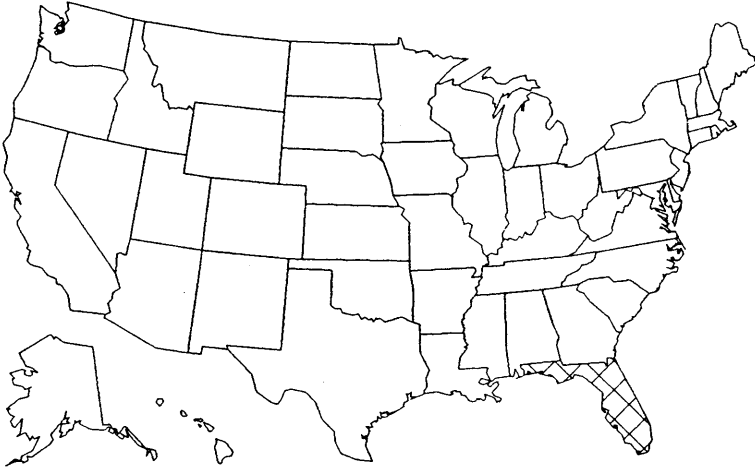
Rhyscotus texensis



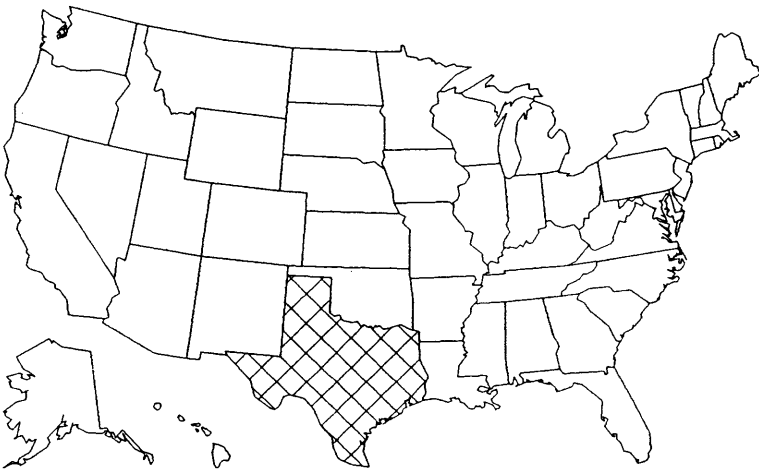
Scyphacella arenicola



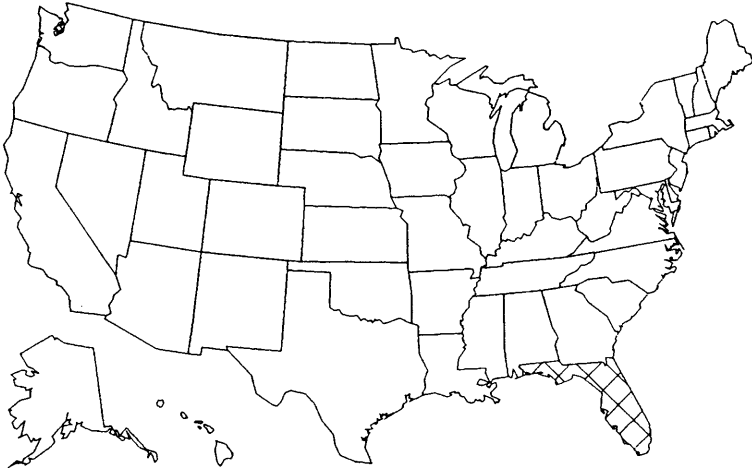
Stenoniscus pleonalis



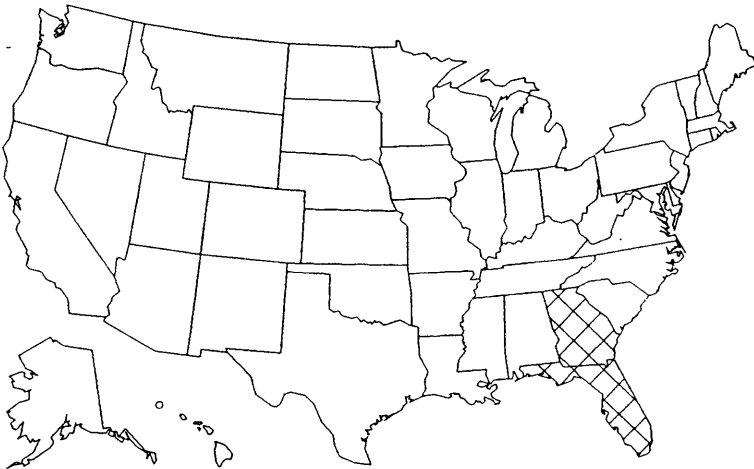
Trichoniscus orchidicola



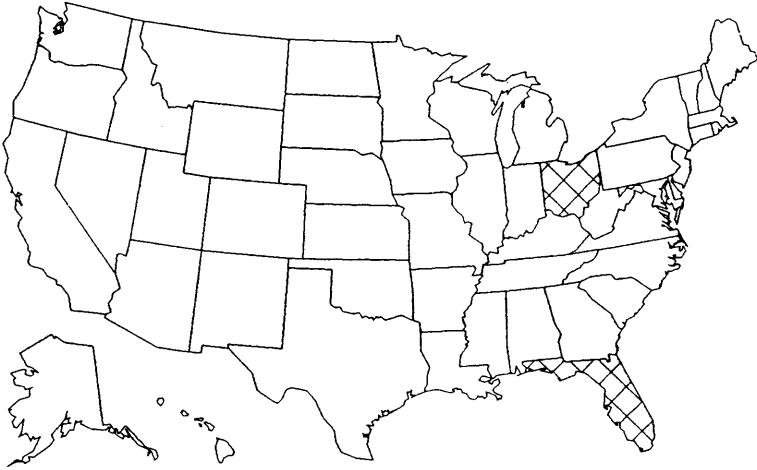
Trichorhina donaldsoni



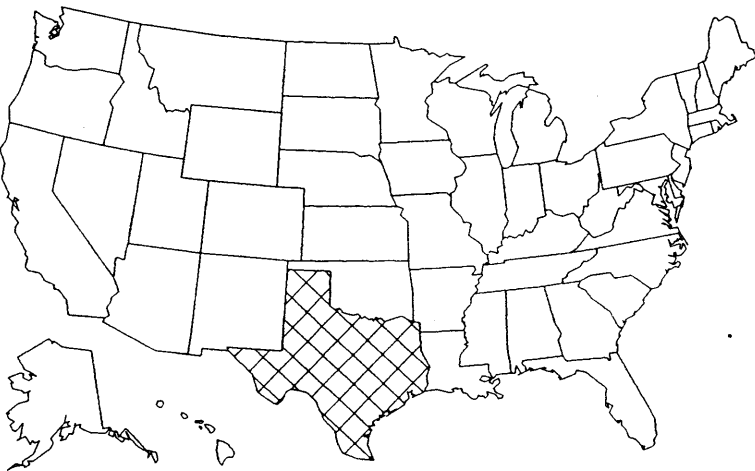
Trichorhina heterophthalma



Trichorhina tomentosa



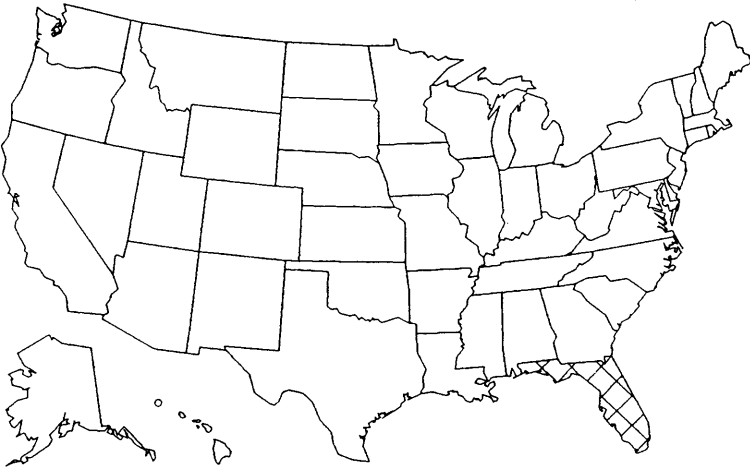
Trichorhina triocis



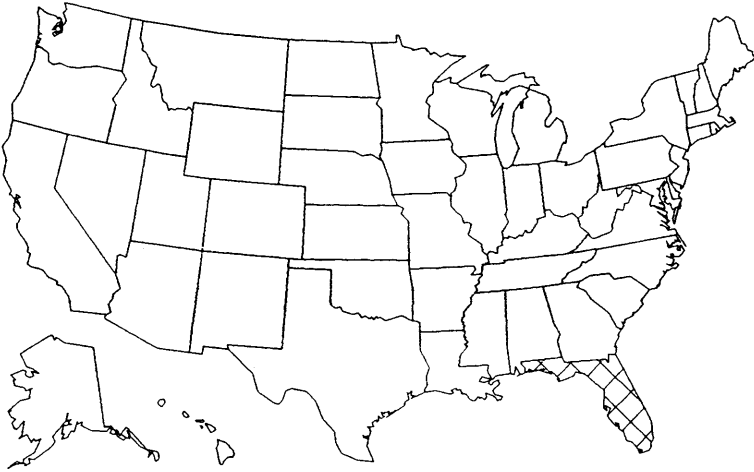
Tylos latreillei



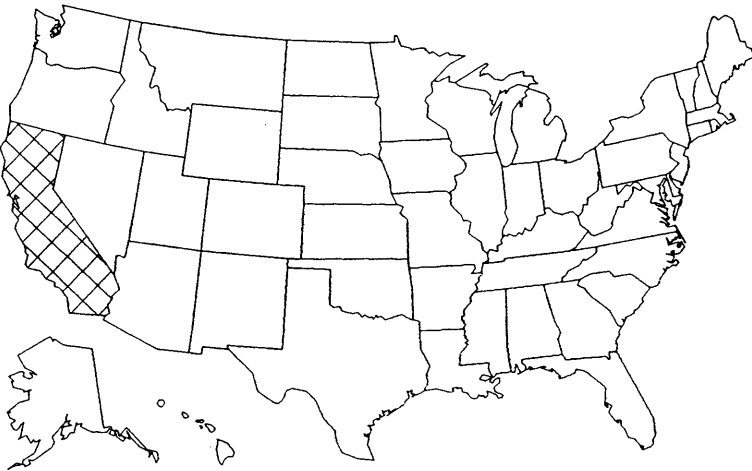
Tylos marcuzzii



Tylos niveus



Tylos punctatus



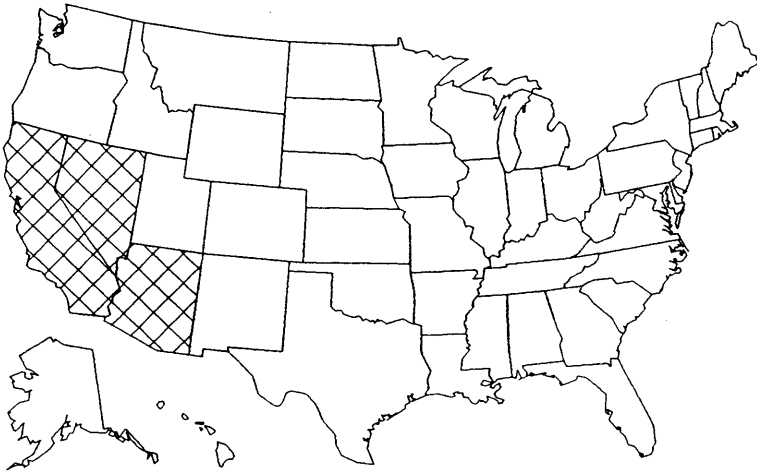
Tylos wegeneri



Venezillo apacheus



Venezillo arizonicus



Venezillo californicus

