

CHECKLIST OF FRESHWATER AND LAND MOLLUSKS OF TEXAS

HAROLD D. MURRAY AND EDWARD C. ROY, Jr.

Trinity University, San Antonio, Texas

The following checklist of freshwater and land mollusks of Texas was prepared with the hope that it will stimulate additional publication on the mollusks of Texas. Every attempt has been made to list all species and subspecies recorded for the State of Texas; however, we apologize in advance for any omissions from this listing.

A total of 374 species and subspecies are herein recorded for Texas. The number of species and subspecies for each group is as follows:

- 88 Pelecypods
 - 78 Naiades
 - 1 Corbiculid
 - 9 Sphaeriids
- 296 Gastropods
 - 64 Freshwater pulmonates
 - 32 Freshwater operculates
 - 190 Land gastropods

For each species and subspecies, we have listed one or more references that have cited the species in Texas. The reference is listed with the date of publication followed by the page on which the species is listed. The lists of references for each species are from the oldest

to the most recent record. Question marks preceding the scientific name indicate our doubt in the validity of its occurrence in Texas, and question marks following an author reflect that author's doubt of the validity of the Texas record. A question mark following the generic name denotes our doubt in assigning the species to that genus. It is our hope that errors in this checklist will be brought to our attention for future correction.

We are particularly indebted to Dr. Aurèle La Rocque, Department of Geology, Ohio State University, for supplying much of the information in this checklist and for his critical evaluation. We also thank the Biology and Geology Departments of Trinity University for aid in preparation of this checklist.

NAIADES

1. AMBLEMA COSTATA Rafinesque 1820. Singley 1893: 317 (*Unio latecostatus* Lea); Dall 1905: 133 (*Quadrula undulata* Barnes); Simpson 1914: 819 (*Quadrula undulata latecostata* Lea); Strecker 1931: 32 (*A. plicata costata* Rafinesque).

2. AMBLEMA PERPLICATA (Conrad) 1841. Singley 1893: 318 (*Unio*), 318 (*U. brazosensis* Lea), 318 (*U. lincecumii* Lea), 318 (*U. pauciplicatus* Lea), 318 (*U. elliottii* Lea); Simpson 1914: 817 (*Quadrula*); Strecker 1931: 33 (*A. plicata perplicata* Conrad).
3. ANODONTA CORPULENTA Cooper 1834. Simpson 1914: 430?; Baker 1928: 168.
4. ANODONTA GRANDIS Say 1829. Singley 1893: 316, 316 (*A. stewartiana* Lea), 316 (*A. virens* Lea); Dall 1905: 129; Simpson 1914: 418, 429 (*A. stewartiana* Lea); Baker 1928: 152; Strecker 1931: 8.
5. ANODONTA GRANDIS BEALEI Lea 1863. Singley 1893: 316; Simpson 1914: 426.
6. ANODONTA GRANDIS LUGUBRIS Say 1829. Singley 1893: 316 (*A. texasensis* Lea), 316 (*A. leonensis* Lea), 316 (*A. micans* Anthony); Simpson 1914: 423 (*A. grandis leonensis* Lea), 427 (*A. texasensis* Lea), 434 (*A. micans* Anthony); Strecker 1931: 10.
7. ANODONTA IMBECILLIS Say 1829. Singley 1893: 316; Ortmann 1919: 162 (*A. ohioensis* Rafinesque).
8. ANODONTA IMBECILLIS HORDA Gould 1855. Simpson 1914: 396 (*A. henryana* Lea); Strecker 1931: 12.
9. ANODONTA LINNEANA Lea 1852. Simpson 1914: 431.
10. ARCIDENS CONFRAGOSUS (Say) 1829. Singley 1893: 317 (*Margaritana*); Simpson 1914: 475; Baker 1928: 196; Strecker 1931: 12.
11. CARUNCULINA PARVA COMPRESSA Simpson 1900. Simpson 1915: 150 (*Lampsilis*); Strecker 1931: 47.
12. CARUNCULINA PARVA NEARNSI Simpson 1900. Simpson 1914: 150 (*Lampsilis*); Strecker 1931: 47.
13. CARUNCULINA PARVA TEXASENSIS (Lea) 1857. Singley 1893: 321 (*Unio parva* Barnes), 321 (*U. texasensis*, *U. bairdianus* Lea, and *U. bealii* Lea); Simpson 1914: 148 (*Lampsilis texasensis*), 151 (*L. parva*), 152 (*L. haleiana* Lea); Ortmann 1919: 258 (*Toxolasma parva*); Baker 1928: 251; Strecker 1931: 45.
14. CYCLONAIAS TUBERCULATA (Rafinesque) 1820. Simpson 1914: 903 (*Quadrula*).
15. ELLIPTIO DILATATUS (Rafinesque) 1820. Simpson 1914: 597 (*Unio gibbosus* Barnes); Ortmann 1919: 95; Baker 1928: 124.
16. ELLIPTIO? POPEI (Lea) 1857. Singley 1893: 322 (*Unio*); Simpson 1914: 700 (*Unio*); Strecker 1931: 17.
17. ELLIPTIO? TAMAULIPASENSIS (Conrad) 1855. Simpson 1914: 622 (*Unio mitchelli* Simpson), 622 (*U. mitchelli iheringi* B.H. Wright); Strecker 1931: 18.
18. ELLIPTIO? TAMAULIPASENSIS ELONGATUS (Simpson) 1914. Simpson 1914: 623 (*Unio*); Strecker 1931: 19.
19. FUSCONAIA ASKEWI (Marsh) 1896. Simpson 1914: 869 (*Quadrula askewi*); Strecker 1931: 31 (*Q. askewi*). Although both Simpson and Strecker place this species in the genus *Quadrula*, Simpson 1914 does place it in the section *Fusconaia*. Since Simpson 1914: 871 indicates *Q. askewi* and *Q. lananensis* are closely related and since *Q. lananensis* is placed in the genus *Fusconaia* by Ortmann 1912: 244, I place both *Q. askewi* and *Q. lananensis* in the genus *Fusconaia*. H. Murray.
20. FUSCONAIA BEADLEIANA (Lea) 1861. Simpson 1914: 869 (*Quadrula beadleiana*). Simpson places this species in the section *Fusconaia*; however, Ortmann 1912: 268 places it in the genus *Elliptio*. I have placed it in this genus for lack of a better place. H. Murray.
21. FUSCONAIA CERINA (Conrad) 1838. Singley 1893: 321 (*Unio*); Simpson 1914: 873 (*Quadrula*). I am unable to determine if *F. cerina* is in the genus *Quadrula*, a synonym of *F. flava*, or a valid species. H. Murray.

22. *FUSCONAIA EBENUS* (Lea) 1831. Simpson 1914: 897?
23. *FUSCONAIA FLAVA* (Rafinesque) 1820. Singley 1893: 323 (*Unio rubiginosus* Lea); Simpson 1914: 872 (*Quadrula rubiginosa* Lea); Strecker 1931: 30 (*Q. flava nasuta* Simpson).
24. *FUSCONAIA LANANENSIS* (Frierson) 1901. Simpson 1914: 870 (*Quadrula lananensis*); Strecker 1931: 31 (*Q. lananensis*). See note under *F. askewi* (Marsh).
25. *FUSCONAIA UNDATA* (Barnes) 1823. Strecker 1931: 30 (*Quadrula undata chunii* Lea). Simpson 1914: 876 recognizes *Q. chunii* as a species; however, Strecker places *Q. chunii* as a synonym of *Q. undata* (Barnes).
26. *GLEBULA SUBORBICULATA* (Lamarck) 1819. Singley 1893: 320 (*Unio glebulus* Say); Simpson 1914: 286 (*G. rotundata* Lamarck); Strecker 1931: 49.
27. *LAMPSILIS ANODONTOIDES* (Lea) 1834. Singley 1893: 321 (*Unio*); Simpson 1914: 90; Baker 1928: 266; Strecker 1931: 37 (*L. teres* Rafinesque).
28. *LAMPSILIS ANODONTOIDES FLORIDENSIS* (Lea) 1852. Simpson 1914: 91.
29. *LAMPSILIS APPROXIMA* (Lea) 1845. Singley 1893: 322 (*Unio*); Simpson 1914: 68.
30. *LAMPSILIS BERLANDIERI* (Lea) 1857. Singley 1893: 319 (*Unio*); Simpson 1914: 172; Strecker 1931: 42 (*L. tampicoensis berlandieri* Lea).
31. *LAMPSILIS BRACTEATA* (Gould) 1855. Singley 1893: 322 (*Unio*); Simpson 1914: 73; Strecker 1931: 39.
32. *LAMPSILIS HYDIANA* (Lea) 1838. Singley 1893: 322 (*Unio*); Simpson 1914: 66; Strecker 1931: 38 (*L. fasciata hydiana*).
33. *LAMPSILIS LIENOSA* (Conrad) 1834. Strecker 1931: 40. Strecker (1931) places the following in synonymy with *L. lienosa* (Conrad): *L. nigerrimus* (Lea) 1852; Singley 1893: 322 (*Unio*); Simpson 1914: 113. *Lampsilis concestator* (Lea) 1857. Simpson 1914: 102?
34. *LAMPSILIS OVATA VENTRICOSA* (Barnes) 1823. Singley 1893: 320 (*Unio satura* Lea); Simpson 1914: 41 (*L. ventricosa satura* Lea); Strecker 1931: 36 (*L. cardium satura*).
35. *LAMPSILIS POWELLII* (Lea) 1852. Simpson 1914: 75. Simpson indicates this species may be a synonym of *L. reeviana* (Lea).
36. *LAMPSILIS RADIATA SILIQUOIDEA* (Barnes) 1823. Simpson 1914: 60 (*L. luteola* Lamarck); Clarke and Berg 1959: 60.
37. *LAMPSILIS REEVIANA* (Lea) 1852. Singley 1893: 321 (*Unio*); Simpson 1914: 74; Strecker 1931: 40 (*L. streckeri* Frierson).
38. *LAMPSILIS TAMPICOENSIS* (Lea) 1838. Singley 1893: 320 (*Unio*); Simpson 1914: 172; Strecker 1931: 41.
39. *LAMPSILIS TAMPICOENSIS HEERMANNI* (Lea) 1861. Singley 1893: 322 (*Unio*); Simpson 1914: 172 (*L. tampicoensis* Lea); Strecker 1931: 42.
40. *LASMIGONA COSTATA* (Rafinesque) 1820. Simpson 1914: 488?
41. *LEPTODEA FRAGILIS* (Rafinesque) 1822. Singley 1893: 321 (*Unio gracilis* Barnes); Dall 1905: 127 (*Lampsilis gracilis*); Baker 1928: 234; Simpson 1914: 181 (*Lampsilis gracilis*); Strecker 1931: 41 (*Lampsilis fragilis*).
42. *LEPTODEA LAEVISSIMA* (Lea) 1830. Singley 1893: 321 (*Unio*); Simpson 1914: 183 (*Lampsilis laevisissima*); Baker 1928: 247 (*Proptera*); Strecker 1931: 43 (*Proptera*).
43. *LIGUMIA RECTA* (Lamarck) 1819. Sing-

- ley 1893: 322 (*Unio*). Strecker (1931) questions the occurrence of this species in Texas.
44. *LIGUMIA SUBROSTRATA* (Say) 1831. Singley 1893: 320 (*Unio*), 320 (*U. rutersvillensis* Lea); Simpson 1914: 99 (*Lampsilis*); Strecker 1931: 43 (*Lampsilis*).
45. *MEGALONAIAS GIGANTEA* (BARNES) 1823. Singley 1893: 322 (*Unio eightsii* Lea), 318 (*U. multiplicatus* Lea), 317 (*U. undulatus* Barnes); Simpson 1914: 825 (*Quadrula heros* Say); Strecker 1931: 34 (*Amblema gigantea* Barnes).
46. *OBLIQUARIA REFLEXA* Rafinesque 1820. Singley 1893: 319 (*Unio cornutus* Barnes); Simpson 1914: 330; Ortmann 1919: 214; Baker 1928: 210; Strecker 1931: 36.
47. *OBOVARIA CASTANEA* (Lea) 1831. Singley 1893: 320 (*Unio*); Simpson 1914: 300; Strecker 1931: 49.
48. *PLECTOMERUS TRAPEZOIDES* (Lea) 1831. Singley 1893: 318 (*Unio*); Simpson 1914: 830 (*Quadrula*); Strecker 1931: 35 (*Amblema dombeyana* Valenciennes).
49. *PLEUROBEMA BIGBYENSE* (Lea) 1841. Simpson 1914: 765 ? This species may be part of the *Pleurobema clava* complex since Simpson places it in the group of *P. clava* (p. 735). Simpson places a question mark after the locality cited for Texas, questioning its presence in Texas.
50. *PLEUROBEMA RIDELLII* (Lea) 1861. Singley 1893: 322 (*Unio*); Ortmann 1912: 262 (*Pleurobema*); Simpson 1914: 879 (*Quadrula*); Strecker 1931: 29 (*Quadrula*).
51. *PROPTERA ALATA* (Say) 1817. Singley 1893: 323 (*Unio*).
52. *PROPTERA AMPHICHAENA* (Frierson) 1898. Simpson 1914: 186 (*Lampsilis*); Strecker 1931: 45.
53. *PROPTERA PURPURATA* (Lamarck) 1819. Singley 1893: 320 (*Unio*), 320 (*Unio coloradoensis* Lea); Simpson 1914: 166 (*Lampsilis*), 164 (*L. coloradoensis* Lea); Strecker 1931: 44.
54. *PSORONAIAS SEMIGRANOSUS* (Philippi) 1845. Singley 1893: 323 (*Unio*). Strecker (1931: 6) states this record by Singley is an error and that the shells labeled 'Texas' actually came from Yucatan.
55. *QUADRULA AUREA* (Lea) 1859. Singley 1893: 320 (*Unio*); Simpson 1914: 861; Strecker 1931: 25.
56. *QUADRULA COUCHIANA* (Lea) 1860. Simpson 1914: 843; Strecker 1931: 28. Strecker expresses the opinion that this may be an aberrant form of *Q. quadrula*.
57. *QUADRULA CUNEUS* (Conrad) 1840. 1896. Simpson 1914: 897;
58. *QUADRULA FRIERSONI* (B. H. Wright) 1896. Simpson 1914: 879; Strecker 1931: 29. I am unable to determine if this species belongs in the genus *Quadrula*. H. Murray.
59. *QUADRULA HOUSTONENSIS* (Lea) 1859. Singley 1893: 319 (*Unio*); Simpson 1914: 859; Strecker 1931: 27.
60. *QUADRULA NODIFERA* (Conrad) 1841. Singley 1893: 319 (*Unio*); Simpson 1914: 857; Strecker 1931: 25. Strecker places this species as a synonym of *Q. pustulosa mortoni* (Conrad).
61. *QUADRULA NODULATA* Rafinesque 1820. Strecker 1931: 28.
62. *QUADRULA PETRINA* (Gould) 1855. Singley 1893: 319 (*Unio*); Simpson 1914: 860; Strecker 1931: 27.
63. *QUADRULA PUSTULOSA* (Lea) 1831. Singley 1893: 323 (*Unio*), 323 (*Unio dorfeuillianus* Lea), 322 (*U. kienerianus* Lea); Simpson 1914: 848; Strecker 1931: 24. Strecker places *U. dorfeuillianus* and *U. kienerianus* as synonyms of *Q. pustulosa*.

64. QUADRULA PUSTULOSA MORTONI (Conrad) 1836. Singley 1893: 322 (*Unio*); Simpson 1914: 853 (*Q. mortoni* Conrad); Strecker 1931: 25. Strecker places *Q. sphaerica* (Lea) as a synonym of *Q. pustulosa mortoni* (Conrad).

65. QUADRULA QUADRULA Rafinesque 1820. Singley 1893: 319 (*Unio apiculata* Say), 319 (*U. aspera* Lea), 319 (*U. forsheyi* Lea), 319 (*U. speciosa* Lea); Simpson 1914: 840 (*Q. aspera* Lea), 841 (*Q. lachrymosa* Lea), 844 (*Q. forsheyi* Lea), 845 (*Q. speciosa* Lea), 846 (*Q. apiculata* Say); Strecker 1931: 19 (*Q. quadrula apiculata* Say), 20 (*Q. quadrula forsheyi* Lea), 21 (*Q. quadrula speciosa* Lea), 21 (*Q. quadrula aspera* Lea). Because Strecker 1931 lists *Q. apiculata*, *Q. forsheyi*, *Q. speciosa*, and *Q. aspera* of Simpson 1914 as subspecies of *Q. quadrula*, a conservative approach is here used in listing each as a synonym of *Q. quadrula* until the specific or subspecific rank of each in Texas is verified.

66. STROPHITUS SUBVEXUS (Conrad) 1834. Strecker 1931: 14.

67. STROPHITUS UNDULATUS (Say) 1817. Simpson 1914: 345 (*S. edentulus* Say); Strecker 1931: 13.

68. TRITOGONIA NOBILIS (Conrad) 1854. Simpson 1914: 321. This probably belongs in the genus *Quadrula*.

69. TRITOGONIA VERRUCOSA (Rafinesque) 1820. Singley 1893: 318 (*Unio tuberculatus* Barnes); Simpson 1914: 318; Strecker 1931: 23 (*Quadrula*).

70. TRITOGONIA VERRUCOSA OBESA Simpson 1900. Simpson 1900: 609.

71. TRUNCILLA DONACIFORMIS (Lea) 1828. Singley 1893: 322 (*Unio*); Ortmann 1919: 241 (*Amygdalonaias*); Baker 1928: 224; Simpson 1914: 308 (*Plagiola*); Strecker 1931: 48.

72. TRUNCILLA MACRODON (Lea) 1859.

Singley 1893: 320 (*Unio*); Simpson 1914: 309 (*Plagiola*); Strecker 1931: 48.

73. TRUNCILLA TRUNCATA Rafinesque 1820. Singley 1893: 319 (*Unio elegans* Lea); Baker 1928: 224; Simpson 1914: 306 (*Plagiola elegans* Lea); Strecker 1931: 47.

74. UNIOMERUS TETRALASMUS (Say) 1830. Singley 1893: 317 (*Unio*), 317 (*Unio jamesianus* Lea), 317 (*Unio symmetricus* Lea); Simpson 1914: 705; Strecker 1931: 14 (*Elliptio tetralasmus*).

75. UNIOMERUS TETRALASMUS CAMPTODON (Say) 1832. Singley 1893: 317 (*Unio camptodon*); Simpson 1914: 706; Strecker 1931: 14 (*Elliptio tetralasmus*).

76. UNIOMERUS TETRALASMUS DECLIVIS (Say) 1831. Singley 1893: 317 (*Unio declivis*); Simpson 1914: 708; Strecker 1931: 16 (*Elliptio declivis*).

77. UNIOMERUS TETRALASMUS MANUBIUS (Gould) 1856. Singley 1893: 317 (*Unio manubius*); Simpson 1914: 707; Strecker 1931: 16 (*Elliptio tetralasmus manubius*).

78. ? VILLOSA IRIS (Lea) 1829. Baker 1898: 105; Ortmann 1919: 265?

CORBICULIDAE

79. CORBICULA MANILENSIS (Philippi) 1841. Metcalf 1966: 16.

SPHAERIIDAE

80. PISIDIUM CASERTANUM (Poli) 1791. Sterki 1916: 456 (*P. friersoni* Sterki), 456 (*P. atlanticum* Sterki); Herrington 1962: 33.

81. PISIDIUM COMPRESSUM Prime 1851. Singley 1893: 316; Herrington 1962: 35.

82. PISIDIUM NITIDUM Jenyns 1832. Herrington 1962: 45.

83. PISIDIUM PUNCTIFERUM (Guppy) 1867. Singley 1893: 315 (*Sphaerium singleyi* Pilsbry); Sterki 1916: 446 (*Eupera singleyi* Pilsbry), 451 (*Pisidium limatulum* Sterki), 470 (*P. singleyi* Sterki); Herrington 1962: 47.
84. PISIDIUM VARIABILE Prime 1851. Singley 1893: 316.
85. SPHAERIUM PARTUMEIUM (Say) 1822. Singley 1893: 315 (*S. elevata* Haldeman); Sterki 1916: 439 (*Musculium elevatum* Haldeman), 439 (*M. orbiculare* Sterki); Herrington 1962: 23.
86. SPHAERIUM SECURIS (Prime) 1851. Herrington 1962: 26.
87. SPHAERIUM STRIATINUM (Lamarck) 1818. Singley 1893: 315; Sterki 1916: 433 (*S. stamineum* Conrad), 437 (*S. jalapense* Pilsbry); Baker 1928: 399 (*S. notatum* Sterki); Herrington 1962: 29.
88. SPHAERIUM TRANSVERSUM (Say) 1829. Singley 1893: 315 (*S. subtransversum* Prime); Herrington 1962: 29.
- FRESHWATER PULMONATES
89. APLEXA HYPNORUM (Linnaeus) 1758. Slaughter *et al.* 1962: 44.
90. BULINUS BERLANDIERIANUS W. G. Binney 1865. Singley 1893: 313; Strecker 1935: 37 (*Bulimus*).
91. DREPANOTREMA CULTRATUM (d'Orbigny). Singley 1893: 314 (*Planorbis*); Walker 1918: 98 (*Planorbis*); Strecker 1935: 34 (*Planorbis*). Baker 1945: 118.
92. DREPANOTREMA CULTRATUM LABROSUM Pilsbry 1934. Baker 1945: 492.
93. FERRISSIA EXCENTRICA Morelet) 1891. Singley 1893: 315 (*Ancylus*); Walker 1918: 120; Strecker 1935: 38; Wurtz 1951: 125.
94. FERRISSIA KIRKLANDI (Walker) 1903. Strecker 1935: 38.
95. FERRISSIA PARALLELA (Haldeman) 1841. Singley 1893: 315 (*Ancylus*); Strecker 1935: 37; Leonard and Frye 1962: 22.
96. FERRISSIA RIVULARIS (Say) 1819. Leonard and Frye 1962: 22.
97. FERRISSIA SHIMEKI (Pilsbry) 1890. Leonard and Frye 1962: 23.
98. FERRISSIA TARDA (Say) 1830. Singley 1893: 315 (*Ancylus*); Strecker 1935: 37.
99. FOSSARIA CUBENSIS (Pfeiffer). Baker 1911: 204 (*Galba*); Strecker 1935: 31 (*Galba*).
100. FOSSARIA DALLI (Baker) 1906. Strecker 1935: 31 (*Lymnaea*).
101. FOSSARIA HUMILIS (Say) 1822. Singley 1893: 313 (*Limnaea*).
102. FOSSARIA MODICELLA (Say) 1825. Singley 1893: 313 (*Limnaea*); Baker 1911: 259 (*Galba humilis m.*); Baker 1928: 289; Strecker 1935: 33.
103. FOSSARIA OBRUSSA (Say) 1825. Strecker 1933: 33 (*Galba*).
104. FOSSARIA PARVA (Lea) 1841. Strecker 1935: 32 (*Galba*); Leonard and Frye 1962: 20 (*Lymnaea*).
105. GUNDLACHIA HJALMARSONI Pfeiffer. Walker 1918: 121; Strecker 1935: 38.
106. GYRAULUS ARIZONENSIS (Pilsbry and Ferriss) 1915. Branson 1960: 37.
107. GYRAULUS (?TORQUIS) CARUS (Pilsbry and Ferriss) 1906. Walker 1918: 97; Strecker 1935: 34 (*Planorbis*).
108. GYRAULUS CIRCUMSTRIATUS (Tryon) 1866. Frye and Leonard 1964: 19.
109. GYRAULUS LABIATUS Leonard 1948. Leonard 1948: 45.
110. GYRAULUS PARVUS (Say) 1817. Singley 1893: 314 (*Planorbis*); Walker 1915: 6;

- Strecker 1935: 35; Leonard and Frye 1962: 22.
111. HELISOMA ANCEPS (MENKE) 1830. Singley 1893: 314 (*Planorbis bicarinatus*); Strecker 1935: 33 (*P. antrosus*); Leonard and Frye 1962: 21 (*H. antrosa*).
112. HELISOMA TENUE SINUOSUM (Bonnet). Baker 1945: 432.
113. HELISOMA TRIVOLVIS (Say) 1817. Singley 1893: 314 (*Planorbis*); Hanna 1923: 25 (*Planorbis*); Strecker 1935: 35 (*Planorbis*); Leonard and Frye 1962: 21.
114. HELISOMA TRIVOLVIS TURGIDUM (Jeffreys). Baker 1945: 414 (*H. trivolvis intertextum*).
115. HELISOMA TRIVOLVIS LENTUM (Say) 1834. Singley 1893: 314 (*Planorbis lentus*); Walker 1915: 6 (*Planorbis lentus* var.); Strecker 1935: 34 (*P. lentus*); Baker 1945: 414.
116. MENETUS DILATATUS (Gould) 1841. Singley 1893: 314; Strecker 1935: 34.
117. MENETUS PEARLETTEI Leonard 1948. Leonard 1948: 46.
118. MENETUS SAMPSONI (ANCEY). Baker 1945: 24.
119. PHYSA AMYGDALUS Sowerby. Walker 1918: 107; Strecker 1935: 36.
120. PHYSA ANATINA Lea 1869. Strecker 1935: 36; Leonard and Frye 1962: 23.
121. PHYSA CRANDALLI Baker. Strecker 1935: 36.
122. PHYSA ELLIPTICA Lea 1837. Stricklin 1961: 31.
123. PHYSA FORSHEYI Lea. Singley 1893: 312; Walker 1915: 6; Walker 1918: 110; Strecker 1935: 36.
124. PHYSA GYRINA Say 1821. Walker 1915: 6; Baker 1928: 449; Strecker 1935: 36; Wurtz 1949: 21.
125. PHYSA HALEI Lea. Singley 1893: 312; Strecker 1935: 36.
126. PHYSA HETEROSTROPHA Say 1817. Singley 1893: 312; Strecker 1935: 36.
127. PHYSA INTEGRAL Haldeman 1841. Wurtz 1949: 21.
128. PHYSA MEXICANA Philippi. Singley 1893: 312; Strecker 1935: 37.
129. PHYSA MEXICANA CONOIDEA Fischer and Crosse. Walker 1918: 112; Strecker 1935: 37.
130. PHYSA OSCULANS Haldeman. Singley 1893: 313; Strecker 1935: 37.
131. PHYSA SAYII Tappan 1839. Singley 1893: 312; Strecker 1935: 37.
132. 'PLANORBIS TUMIDUS' Pfeiffer 1839. Singley 1893: 314; Strecker 1935: 35.
133. PLANORBULA ARMIGERA (Say) 1818. Singley 1893: 315 (*Segmentina*); Leonard and Frye 1962: 21.
134. PLANORBULA CRASSILABRIS (Walker) 1907. Leonard and Frye 1962: 21.
135. PROMENETUS EXACUOUS (Say) 1821. Singley 1893: 314; Strecker 1935: 34.
136. PROMENETUS UMBILICATELLUS (Cockerell) 1887. Leonard and Frye 1962: 21.
137. PSEUDOSUCCINEA COLUMELLA (Say) 1817. Singley 1893: 313; Baker 1911: 163; Baker 1928: 272; Strecker 1935: 31.
138. PSEUDOSUCCINEA COLUMELLA CHALYBEA (Gould) 1840. Strecker 1935: 31.
139. STAGNICOLA BULIMOIDES (Lea) 1841. Singley 1893: 313 (*Limnaea*); Dall 1905: 79; Leonard and Frye 1962: 20; (*Lymnaea*).
140. STAGNICOLA BULIMOIDES COCKERELLI (Pilsbry and Ferriss) 1906. Baker 1911: 217; Strecker 1935: 32; Leonard and Frye 1962: 20 (*Lymnaea*).

141. STAGNICOLA BULIMOIDES TEHELLA (Haldeman) 1867. Walker 1915: 7 (*Lymnaea*); Baker 1911: 214 (*Galba*); Strecker 1935: 32 (*Galba*).

142. STAGNICOLA CAPERATA (Say) 1829. Singley 1893: 313 (*Limnaea*); Walker 1915: 8; Strecker 1935: 32 (*Galba*); Leonard and Frye 1962: 20 (*Lymnaea*).

143. STAGNICOLA CATASCOPIUM (Say) 1816. Hanna 1923: 25.

144. STAGNICOLA DESIDIOSA (Say) 1821. Singley 1893: 313 (*Limnaea*).

145. STAGNICOLA PALUSTRIS (Müller) 1776. Singley 1893: 313 (*Limnaea*); Baker 1911: 298 (*Galba*); Hanna 1923: 25; Strecker 1935: 33 (*Galba*).

146. STAGNICOLA REFLEXA (Say) 1821. Singley 1893: 313 (*Limnaea*); Strecker 1935: 33 (*Galba*).

147. STAGNICOLA TRYONIANA (Lea). Singley 1893: 314 (*Limnaea*).

148. TROPICORBIS GRACILENTUS (Gould) 1855. Baker 1945: 496; Jacobson 1925: 111.

149. TROPICORBIS HAVANENSIS (Pfeiffer) 1839. Singley 1893: 315 (*Planorbis*); Strecker 1935: 35 (*Segmentina*); Baker 1945: 496.

150. TROPICORBIS ? LIEBMANNI (Dunker). Singley 1893: 314 (*Planorbis*); Strecker 1935: 34.

151. TROPICORBIS OBSTRUCTUS (Morelet). Walker 1915: 6 (*Segmentina*); Walker 1918: 105 (*Segmentina*); Strecker 1935: 35 (*Segmentina*); Jacobson 1952: 111; Leonard and Frye 1962: 22.

152. TROPICORBIS OBSTRUCTUS DONBILLI (Tristram). Baker 1945: 494, 498.

FRESHWATER OPERCULATES

153. AMNICOLA COMALENSIS PILSBRY and Ferriss 1906. Walker 1918: 133; Strecker 1935: 38.

154. AMNICOLA INTEGRATA (Say) 1821. Baker 1928: 122 (*Cincinnatia cincinnatiensis* Anthony); Cheatum and Allen 1963: 174.

155. AMNICOLA LIMOSA (Say) 1817. Baker 1928: 93.

156. AMNICOLA LIMOSA PORATA (Say) 1821. Baker 1928: 98 (considered a synonym of *limosa* by Berry).

157. AMNICOLA PERACUTA Pilsbry and Walker 1889. Singley 1893: 312; Walker 1918: 136; Strecker 1935: 39.

158. AMPULLARIA CALIGINOSA Reeve. Singley 1893: 323.

159. AMPULLARIA DEPRESSA Say. Singley 1893: 323.

160. CALIPYRGULA CIRCUMSTRIATA Leonard and Ho 1960. Leonard and Frye 1962: 19.

161. CALIPYRGULA PECOSENSIS Leonard and Ho 1960. Leonard and Frye 1962: 18.

162. CAMPELOMA DECISUM Say 1817. Singley 1893: 311.

163. CAMPELOMA LEWISII Walker. Strecker 1935: 38.

164. CAMPELOMA PONDEROSUM Say 1821. Baker 1898: 357.

165. COCHLIOPA RIOGRANDENSIS Pilsbry and Ferriss 1906. Walker 1918: 141; Strecker 1935: 39; Leonard and Frye 1962: 19.

166. COCHLIOPA TEXANA Pilsbry 1935. Strecker 1935: 39.

167. GONIOBASIS COMALENSIS Pilsbry 1886. Singley 1893: 312; Walker 1918: 156; Strecker 1935: 40.

168. GONIOBASIS COMALENSIS FONTINALIS Pilsbry and Ferriss 1906. Walker 1918: 157; Strecker 1935: 40.

169. GONIOBASIS PLEURISTRIATA Say. Singley 1893: 311.

170. HORATIA MICRA (Pilsbry and Ferriss) 1906. Walker 1918: 148; Strecker 1935: 40.

171. HORATIA MICRA NUGAX (Pilsbry and Ferriss) 1906. Walker 1918: 148; Strecker 1935: 40.

172. HYDROBIA TEXANA Pilsbry 1887. Singley 1893: 312.

173. MELANOIDES TUBERCULATA (Müller). Murray 1964: 15.

174. PALUDESTRINA DIABOLI Pilsbry and Ferriss 1906. Walker 1918: 137; Strecker 1935: 39.

175. PALUDESTRINA PROTEA (Gould) 1855. Strecker 1935: 39.

176. PALUDESTRINA SEEMANNI (Frauenfeld). Strecker 1935: 39.

177. POMATIOPSIS LAPIDARIA (Say) 1817. Hanna 1923: 25.

178. POTAMOPYRGUS CHEATUMI Pilsbry 1935. Strecker 1935: 39.

179. POTAMOPYRGUS SPINOSUS (Call and Pilsbry) 1886. Singley 1893: 312; Walker 1918: 140; Strecker 1935: 39.

180. TAREBIA GRANIFERA (Lamarck) 1816. Murray 1964: 15.

181. VALVATA TRICARINATA Say 1817. Singley 1893: 312; Strecker 1935: 38.

182. VALVATA GUATEMALENSIS Morelet. Strecker 1935: 38.

183. VIVIPARUS SUBPURPUREUS (Say) 1829. Singley 1893: 311; Strecker 1935: 38.

184. VIVIPARUS TEXANUS Tryon. Baker 1928: 44.

LAND GASTROPODA

185. ANGUISPIRA ALTERNATA (Say) 1816. Singley 1893: 303; Strecker 1935: 27.

186. ANGUISPIRA ALTERNATA CARINATA (Pilsbry and Rhoads) 1896. Strecker 1935: 27.

187. ANGUISPIRA ALTERNATA CRASSA Walker. Pratt 1964: 31.

188. ANGUISPIRA ALTERNATA STRONGYLODES (Pfeiffer) 1854. Strecker 1935: 27 (A. alternata rariorata Pilsbry); Pilsbry 1948: 577.

189. ASHMUNELLA ADITHAE Pilsbry and Cheatum 1951. Pilsbry and Cheatum 1951: 88.

190. BULIMULUS ALTERNATUS (Say) 1830. Singley 1893: 309. Pilsbry 1946: 15 states that typical *B. alternatus* is not found in Texas.

191. BULIMULUS ALTERNATUS MARIAE (Albers) 1850. Strecker 1935: 16, 16 (*B. alternatus albida* Taylor), 16 (*B. alternatus intermedia* Singley); Pilsbry 1946: 14; Simmons 1954: 23.

192. BULIMULUS DEALBATUS (Say) 1821. Singley 1893: 309; Strecker 1935: 15, 15 (*B. dealbatus liquabilis* Reeve); Pilsbry 1946: 7.

193. BULIMULUS DEALBATUS DEALBATUS (Say) 1821. Leonard and Frye 1962: 23.

194. BULIMULUS DEALBATUS MOOREANUS (Pfeiffer) 1868. Singley 1893: 309 (*B. schiedeanus mooreanus*); Strecker 1935: 15; Pilsbry 1946: 12; Wheeler 1949: 7; Jacobson 1952: 110; Simmons 1954: 21.

195. BULIMULUS DEALBATUS RAGSDALEI (Pilsbry) 1890. Singley 1893: 309 (*B.*

- ragdalei); Strecker 1935: 15; Pilsbry 1946: 11.
196. BULIMULUS PASONIS Pilsbry 1902. Strecker 1935: 16 (*B. dealbatus pasonis*); Pilsbry 1946: 18.
197. BULIMULUS PILSBRYI Ferriss 1925. Strecker 1935: 17; Pilsbry 1946: 20.
198. BULIMULUS SCHIEDEANUS (Pfeiffer) 1841. Singley 1893: 309, 309 (*B. patriarcha* Binney); Strecker 1935: 14 (*B. patriarcha*), 17 (*B. alternatus hesperia* Pilsbry and Ferriss); Pilsbry 1946: 16.
199. BULIMULUS SCHIEDEANUS PECOSENSIS Pilsbry and Ferriss 1906. Strecker 1935: 16, 16 (*B. dealbatus schiediana* Pfeiffer); Pilsbry 1946: 17; Simmons 1954: 22.
200. CARYCHIUM EXIGUUM (Say) 1822. Singley 1893: 311; Strecker 1935: 31; Wheeler 1949: 8.
201. CARYCHIUM EXILE H. C. Lea 1842. Singley 1893: 311; Strecker 1935: 31; Pilsbry 1948: 1058; Wheeler 1949: 8.
202. CATINELLA TEXANA Hubricht 1961. Hubricht 1961: 61.
203. CECILIOIDEA APERTA (Swainson) 1840. Pilsbry 1950: 57. Pleistocene wash?
204. COLUMELLA EDENTULA (Draparnaud) 1805. Strecker 1935: 29.
205. CIONELLA LUBRICA (Müller) 1774. Pilsbry 1950: 58.
206. DEROCERAS AENIGMA Leonard. Leonard and Frye 1962: 24.
207. DEROCERAS LAEVE (Müller) 1774. Strecker 1935: 27; (*Agriolimax campestris* Binney); Wheeler 1949: 7.
208. DEROCERAS RETICULATUM (Müller) 1774. Strecker 1935: 26 (*Agriolimax agrestis* Leidy).
209. DISCUS CRONKHITTEI (Newcomb) 1865. Singley 1893: 303 (*Patula striatella* Anthony); Strecker 1935: 27 (*Gonyodiscus striatella*) 28 (*G. cronkhitei anthonyi* Henderson); Pilsbry 1948: 600.
210. DISCUS PATULUS (Deshayes) 1830. Singley 1893: 303 (*Patula perspectiva* Say); Strecker 1935: 27 (*Gonyodiscus perspectivus*).
211. DRYMAEUS SERPERASTRUM (Say). Singley 1893: 309; Strecker 1935: 17 (*Bulimulus*); Pilsbry 1946: 22 doubts the occurrence of this species in Texas.
212. EUCONULUS CHERSINUS (Say) 1821. Strecker 1935: 25.
213. EUCONULUS CHERSINUS TROCHULUS (Reinhardt) 1883. Strecker 1935: 24; Pilsbry 1946: 241; Wheeler 1949: 7.
214. EUCONULUS FULVUS (Müller) 1774. Singley 1893: 303 (*Zonites*); Strecker 1935: 25; Pilsbry 1946: 235.
215. EUGLANDINA EXESA Cockerell 1930. Strecker 1935: 23; Pilsbry 1946: 196.
216. EUGLANDINA IMMÉMORATA Pilsbry 1907. Pilsbry 1946: 197.
217. EUGLANDINA ROSEA (Férussac) 1821. Strecker 1935: 23 (*E. truncata* Gmelin?). Doubtful record for Texas.
218. EUGLANDINA SINGLEYANA (Binney) 1892. Singley 1893: 301 (*Glandina truncata* De Kay), 302 (*G. decussata singleyana* Binney), 303 (*Zonites*); Strecker 1935: 23; Pilsbry 1946: 197; Wheeler 1949: 7.
219. EUGLANDINA TEXASIANA (Pfeiffer) 1857. Singley 1893: 301 (*Glandina*); Strecker 1935: 23; Pilsbry 1946: 195.
220. ?EUGLANDINA VANUXEMENSIS (Lea). Singley 1893: 302; Strecker 1935: 23. Pilsbry 1946: 189 states this is a species found in Mexico.
221. GASTROCOPTA ARMIFERA (Say) 1821. Singley 1893: 308 (*Pupa*); Strecker 1935: 19; Pilsbry 1948: 874.

222. GASTROCOPTA ARMIFERA ABBREVIATA (Sterki) 1909. Pilsbry 1948: 877.
223. GASTROCOPTA CONTRACTA (Say) 1822. Singley 1893: 308 (*Pupa*); Strecker 1935: 19; Pilsbry 1948: 880.
224. GASTROCOPTA CONTRACTA CLIMEANA (Vanatta) 1911. Strecker 1935: 20; Pilsbry 1948: 881.
225. GASTROCOPTA CORTICARIA (Say) 1816. Singley 1893: 307 (*Pupa*); Strecker 1935: 21.
226. GASTROCOPTA CRISTATA (Pilsbry and Vanatta) 1900. Strecker 1935: 20; Pilsbry 1944: 69; Pilsbry 1948: 911.
227. GASTROCOPTA HOLZINGERI (Sterki) 1899. Singley 1893: 308 (*Pupa*); Strecker 1935: 20; Wheeler 1949: 8.
228. GASTROCOPTA HOLZINGERI STERKII Pilsbry 1944. Pilsbry 1944: 69.
229. GASTROCOPTA PELLUCIDA HORDEACELLA (Pilsbry) 1890. Singley 1893: 308 (*Pupa*); Strecker 1935: 20; Pilsbry 1944: 69; Pilsbry 1948: 913.
230. GASTROCOPTA PENTODON (Say) 1821. Singley 1893: 308 (*Pupa pentodon* and *P. curvidens* Gould); Strecker 1935: 21, 21 (*G. curvidens*), 21 (*G. pentodon floridana* Dall); Pilsbry 1944: 69; Pilsbry 1948: 886.
231. GASTROCOPTA PROCERA (Gould) 1840. Singley 1893: 308 (*Pupa*); Strecker 1935: 20; Pilsbry 1948: 907.
232. GASTROCOPTA PROCERA MCCLUNGI (Hanna and Johnston) 1913. Pilsbry 1944: 69; Pilsbry 1948: 910.
233. GASTROCOPTA PROCERA STERKIANA Pilsbry 1917. Strecker 1935: 21 (*G. duplicata* Sterki); Pilsbry 1944: 69; Pilsbry 1948: 908.
234. GASTROCOPTA RIOGRANDENSIS (Pilsbry and Vanatta) 1900. Singley 1893: 308 (*Pupa*); Strecker 1935: 21; Pilsbry 1948: 891.
235. GASTROCOPTA RUPICOLA (Say) 1821. Strecker 1935: 21; Pilsbry 1948: 905.
236. GASTROCOPTA TAPPANIANA (C. B. Adams) 1842. Strecker 1935: 22, 22 (*G. tappaniana curta* Sterki); Pilsbry 1948: 889; Wheeler 1949: 8.
237. GUPPYA GUNDLACHI (Pfeiffer) 1840. Singley 1893: 303 (*Zonites*); Strecker 1935: 25; Pilsbry 1946: 244.
238. HAPLOTREMA CONCAVUM (Say) 1821. Strecker 1935: 23; Pratt 1964: 31.
239. HAWAIIA MINUSCULA (Binney) 1840. Singley 1893: 303 (*Zonites*); Strecker 1935: 25.
240. HAWAIIA MINUSCULA ALACHUANA Dall 1885. Wheeler 1949: 7.
241. HAWAIIA MINUSCULA NEOMEXICANA (Cockerell and Pilsbry) 1900. Pilsbry 1946: 24.
242. HELICINA CHRYSOCHEILA Binney 1851. Singley 1893: 311; Strecker 1935: 5; Pilsbry 1948: 1081.
243. HELICINA ORBICULATA (Say) 1818. Singley 1893: 311; Strecker 1935: 5.
244. HELICINA ORBICULATA TROPICA Pfeiffer 1852. Pilsbry 1948: 1082; Wheeler 1949: 8; Jacobson 1952: 111.
245. HELICODISCUS EIGENMANNI Pilsbry 1900. Strecker 1935: 29; Pilsbry 1948: 630; Wheeler 1949: 7.
246. HELICODISCUS EIGENMANNI ARIZONENSIS Pilsbry and Ferriss 1906. Pilsbry 1948: 632.
247. HELICODISCUS PARALLELUS (Say) 1821. Singley 1893: 304; Strecker 1935: 28.
248. HELICODISCUS SINGLEYANUS (Pilsbry) 1890. Singley 1893: 303 (*Zonites* and *Z. laeviuscula*); Strecker 1935: 28; Pilsbry 1948: 636.

249. *HELICODISCUS NUMMUS* (Vanatta) 1899. Strecker 1935: 28; Pilsbry 1948: 639.
250. *HELIX ASPERSA* (Müller 1774 Strecker 1935: 6; Harry 1948: 21.
251. *HOLOSPIRA GOLDFUSSI* (Menke) 1847. Singley 1893: 309; Strecker 1935: 17; Pilsbry 1946: 155; Wheeler 1949: 7.
252. *HOLOSPIRA GOLDFUSSI ANACACHENSIS* Bartsch 1906. Strecker 1935: 17; Pilsbry 1946: 117.
253. *HOLOSPIRA HAMILTONI* Dall 1897. Strecker 1935: 18; Pilsbry 1946: 118.
254. *HOLOSPIRA MESOLIA* Pilsbry 1912. Strecker 1935: 18; Pilsbry 1946: 119.
255. *HOLOSPIRA ORITIS* Pilsbry and Cheat-um 1951. Pilsbry and Cheatum 1951: 89.
256. *HOLOSPIRA PASONIS* Dall 1895. Strecker 1935: 18; Pilsbry 1946: 121.
257. *HOLOSPIRA PITYIS* Pilsbry and Cheat-um 1951. Pilsbry and Cheatum 1951: 89.
258. *HOLOSPIRA RIOGRANDENSIS* Pilsbry 1946. Pilsbry 1946: 118.
259. *HOLOSPIRA ROEMERI* (Pfeiffer) 1848. Singley 1893: 309; Strecker 1935: 18; Pilsbry 1946: 114; Wheeler 1949: 7.
260. *HOLOSPIRA ROEMERI BREVISSIMA* Pilsbry 1950. Pilsbry 1950: 56.
261. *HOLOSPIRA YUCATANENSIS* Bartsch. Pilsbry 1952: 69.
262. *HUMBOLDTIANA CHEATUMI* Pilsbry 1935. Strecker 1935: 7; Pilsbry 1939: 402.
263. *HUMBOLDTIANA CHISOSENSIS* Pilsbry 1927. Strecker 1935: 6; Pilsbry 1939: 399.
264. *HUMBOLDTIANA EDITHAE* Parodiz 1954. Parodiz 1954: 107.
265. *HUMBOLDTIANA FERRISSIANA* Pilsbry 1928. Strecker 1935: 6; Pilsbry 1939: 400.
266. *HUMBOLDTIANA HÓGEANA PRAESIDI* Pilsbry 1939. Pilsbry 1939: 402.
267. *HUMBOLDTIANA PALMERI* Clench and Rehder 1930. Strecker 1935: 7; Pilsbry 1939: 403.
268. *HUMBOLDTIANA TEXANA* Pilsbry 1927. Singley 1893: 304. (*Helix humboldtiana* Valenciennes, Stearns); Strecker 1935: 6 (*H. humboldtiana* Val.), 7; Pilsbry 1939: 404.
269. *HUMBOLDTIANA ULTIMA* Pilsbry 1927. Strecker 1935: 7; Pilsbry 1939: 408.
270. *LIMAX FLAVUS* Linnaeus 1758. Strecker 1935: 26; Pilsbry 1948: 528; Wheeler 1949: 7.
271. *LIMAX MARGINATUS* Müller 1774. Murray and Wiley 1968: 105.
272. *LIMAX MAXIMUS* Linnaeus 1758. Singley 1893: 302; Strecker 1935: 26; Pilsbry 1948: 524; Wheeler 1949: 7.
273. *MESODON CLAUSUS* (Say) 1821. Strecker 1935: 13 (*Polygyra*).
274. *MESODON INFLECTUS* (Say) 1821. Singley 1893: 305 (*Helix*); Strecker 1935: 13 (*Polygyra*).
275. *MESODON ROEMERI* (Pfeiffer) 1848. Singley 1893: 305 (*Helix*); Strecker 1935: 13 (*Polygyra*); Pilsbry 1940: 745; Wheeler 1949: 7; Jacobson 1952: 111.
276. *MESODON THYROIDUS* (Say) 1816. Singley 1893: 304 (*Helix*); Strecker 1935: 13 (*Polygyra*); Pilsbry 1940: 706; Wheeler 1949: 7.
277. *MESODON THYROIDUS BUCCULENTA* (Gould) 1848. Singley 1893: 304 (*Helix*); Strecker 1935: 13 (*Polygyra*); Pilsbry 1940: 711 (mentioned as possible species by Gould with Texas record but Pilsbry considers it a subspecies of *thyroidus*.)
278. *MESOMPHIX FRIABILIS* (Binney) 1857. Singley 1893: 302 (*Zonites*); Strecker 1935: 24 (*Omphalina*); Pilsbry 1946: 328.

279. MICRO CERAMUS TEXANUS (Pilsbry) 1898. Singley 1893: 310 (*M. gossei* Pfeiffer); Strecker 1935: 17; Pilsbry 1946: 110.
280. OTALA LACTEA (Müller) 1774. Strecker 1935: 6.
281. OTALA VERMICULATA (Müller) 1774. Strecker 1935: 6 (*Helix*); Jackson 1944: 105; Harry 1948: 20.
282. OXYLOMA SALLEANA (Pfeiffer) 1849. Strecker 1935: 29.
283. PHILOMYCUS CAROLINIANUS FLEXUOLARIS Rafinesque. Pratt 1965: 142.
284. PILSBRYNA TRIDENS Morrison 1935. Pilsbry 1946: 393.
285. POLYGYRA ARIADNAE (Pfeiffer) 1848. Singley 1893: 307 (*Helix*); Strecker 1935: 12; Pilsbry and Hubricht 1956: 94.
286. POLYGYRA AURIFORMIS (Bland) 1859. Pilsbry 1940: 599; Singley 1893: 306 (*Helix*); Strecker 1935: 8; Pilsbry and Hubricht 1956: 94.
287. POLYGYRA CEREOLUS (Mühlfeld) 1818. Pilsbry and Hubricht 1956: 94.
288. POLYGYRA CEREOLUS FEBIGERI (Bland). Singley 1893: 307 (*Helix*); Strecker 1935: 8; Pilsbry and Hubricht 1956: 94.
289. POLYGYRA CHISOSENSIS Pilsbry 1936. Pilsbry 1940: 620.
290. POLYGYRA CHISOSENSIS DISCOBOLUS Pilsbry 1936. Pilsbry 1940: 621.
291. POLYGYRA DORFEUILLIANA Lea 1838. Singley 1893: 306 (*Helix*); Strecker 1935: 9; Pilsbry 1940: 634; Pilsbry and Hubricht 1956: 96.
292. POLYGYRA DORFEUILLIANA SAMPSONI Wetherby 1881. Strecker 1935: 9; Pilsbry and Hubricht 1956: 96.
293. POLYGYRA GRACILIS Hubricht 1961. Hubricht 1961: 26.
294. POLYGYRA HIPPOCREPIS (Pfeiffer) 1848. Singley 1893: 307; Strecker 1935: 12; Pilsbry 1940: 638; Wheeler 1949: 1-9, 48-58.
295. POLYGYRA IMPLICATA (Martens). Pilsbry and Hubricht 1956: 94.
296. POLYGYRA LATISPIRA Pilsbry 1896. Strecker 1935: 12; Pilsbry 1940: 622.
297. POLYGYRA LEPORINA (Gould) 1848. Singley 1893: 306 (*Helix*); Strecker 1935: 9; Pilsbry 1940: 611; Pilsbry and Hubricht 1956: 94.
298. ? POLYGYRA MATERMONTANA Pilsbry 1896. Strecker 1935: 10; (Pilsbry 1940: 615 'occurrence in Texas . . . practically impossible').
299. POLYGYRA MOOREANA (W. G. Binney) 1857. Singley 1893: 306 (*Helix*); Strecker 1935: 9; Pilsbry 1949: 622; Wheeler 1949: 7; Pilsbry and Hubricht 1956: 96.
300. POLYGYRA TAMAUZIPASENSIS Lea. Hubricht 1961: 27.
301. POLYGYRA OPPILATA (Morelet) 1849. Pilsbry and Hubricht 1956: 94.
302. POLYGYRA POSTELLIANA ESPILOCA (Bland) 1860. Singley 1893: 306 (*Helix*); Strecker 1935: 9; (Pilsbry 1940: 605, thinks that *espiloca* is probably restricted to the coastal plain and sea islands of North Carolina to Georgia.)
303. POLYGYRA PUSTULA (Férussac) 1822. Singley 1893: 306 (*Helix*); Strecker 1935: 9; (Pilsbry 1940: 608, records it only for South Carolina, Georgia, Florida, and Alabama).
304. POLYGYRA RHOADSI Pilsbry 1899. Pilsbry and Hubricht 1956: 94.

305. ?POLYGYRA RICHARDSONI von Martens. Strecker 1935: 10. (Questionable record, not listed by Pilsbry 1940).
306. POLYGYRA SCINTILLA Pilsbry and Hubricht 1956. Pilsbry and Hubricht 1956: 94.
307. POLYGYRA SEPTENVOLVA FEBIGERI (Bland) 1866. Pilsbry 1940: 591.
308. POLYGYRA TEXASIANA (Moricand) 1833. Singley 1893: 306 (*Helix*); Strecker 1935: 10; Pilsbry 1940: 617; Wheeler 1949: 7; Jacobson 1852: 111; Pilsbry and Hubricht 1956: 93-95.
309. POLYGYRA TEXASIANA TAMAULIPASENSIS Lea. Pilsbry and Hubricht 1956: 96.
310. POLYGYRA TEXASIANA TEXASENSIS Pilsbry 1902. Strecker 1935: 11; Pilsbry 1940: 619; Pilsbry and Hubricht 1956: 94.
311. POLYGYRA THOLUS (W. G. Binney). Singley 1893: 306 (*Helix mooreana t.*); Strecker 1935: 10 (*P. mooreana t.*); Pilsbry 1940: 624.
312. POLYGYRA TRIODONTOIDES (Bland) 1861. Singley 1893: 306 (*Helix*); Strecker 1935: 11; Pilsbry 1940: 616.
313. ?POLYGYRA UVULIFERA (Shuttleworth) 1852. Singley 1893: 305 (*Helix*); Strecker 1935: 8 (Doubtful record, Singley never found it himself, but reported a record from Corpus Christi by Binney).
314. ?POLYGYRA VENTROSULA (Pfeiffer). Singley 1893: 307 (*Helix*); Strecker 1935: 10. (Pilsbry 1940: 614; U.S. record doubtful).
315. ?POLYGYRA VENTROSULA HINDSI (Pfeiffer). Singley 1893: 307 (*Helix*); Strecker 1935: 10. (Pilsbry 1940: 614, Mexico).
316. PRATICOLELLA BERLANDIERIANA (Moricand) 1833. Singley 1893: 304 (*Helix*); Strecker 1935: 8; Pilsbry 1940: 694; Jacobson 1952: 111; Pilsbry and Hubricht 1956: 96.
317. PRATICOLELLA BERLANDIERIANA PACHYLOMA ('Menke' Pfeiffer) 1847. Pilsbry 1940: 697; Pilsbry and Hubricht 1956: 96 (as a full species).
318. PRATICOLELLA BERLANDIERIANA TAENIATA Pilsbry 1940. Pilsbry 1940: 696.
319. PRATICOLELLA CAMPI Clapp and Ferriss 1919. Pilsbry 1940: 693.
320. PRATICOLELLA GRISEOLA (Pfeiffer). Singley 1893: 304 (*Helix*); Strecker 1935: 8; Pilsbry 1940: 690; Pilsbry and Hubricht 1956: 96.
321. PUNCTUM MINUTISSIMUM (Lea) 1841. Singley 1893: 304; Strecker 1935: 29; Wheeler 1949: 7.
322. PUNCTUM VITREUM H. B. Baker 1930. Pilsbry 1948: 649.
323. PUPILLA BLANDI Morse 1865. Singley 1893: 307 (*Pupa*); Strecker 1935: 22 (*Pupa muscorum b.*); Pilsbry 1948: 929; Wheeler 1949: 8.
324. PUPILLA SYNGENES (Pilsbry) 1890. Singley 1893: 308 (*Pupa*); Strecker 1935: 22 (*Pupa*); Pilsbry 1948: 939; Wheeler 1949: 8.
325. PUPISOMA DIOSCORICOLA (C. B. Adams) 1845. Singley 1893: 304 (*Patula caeca Guppy*); Strecker 1935: 14; Pilsbry 1948: 1007.
326. PUPISOMA DIOSCORICOLA INSIGNIS Pilsbry 1920. Strecker 1935: 14; Pilsbry 1948: 1007.
327. PUPISOMA MACNEILLI (Clapp) 1918. Strecker 1935: 14.
328. PUPOIDES ALBILABRIS (C. B. Adams) 1841. Singley 1893: 307 (*Pupa fallax Say*); Strecker 1935: 19 (*P. marginatus Say*); Pilsbry 1944: 69 (*P. marginatus*); Wheeler 1949: 8.
329. PUPOIDES HORDACEUS (Gabb) 1866. Singley 1893: 308 (*Pupa*); Strecker 1935: 20 (*Gastrocopta*).

330. *RETINELLA CRYPTOMPHALA* (Clapp) 1915. Strecker 1935: 25.
331. *RETINELLA ELECTRINA* (Gould) 1841. Strecker 1935: 24 (*R. hammonis electrina*).
332. *RETINELLA INDENTATA* (Say) 1823. Singley 1893: 303 (*Zonites*); Strecker 1935: 24; Pilsbry 1944: 69.
333. *RETINELLA INDENTATA PAUCILIRATA* (Morelet) 1851. Strecker 1935: 24, 24 (*R. indentata umbilicata* Binney); Pilsbry 1946: 291; Wheeler 1949: 7.
334. *RETINELLA ROEMERI* (Pilsbry and Ferriss) 1906. Strecker 1935: 24 (*R. dalliana roemeri*); Pilsbry 1946: 277; Wheeler 1949: 7.
335. *RETINELLA SCULPTILIS* (Bland) 1858. Singley 1893: 302 (*Zonites*); Strecker 1935: 24.
336. *RUMINA DECOLLATA* (Linnaeus) 1758. Strecker 1935: 23; Pilsbry 1946: 170; Wheeler 1949: 7; Jacobson 1952: 111; Branson 1959: 37.
337. *SONORELLA HACHITANA ORIENTIS* Pilsbry 1936. Pilsbry 1939: 277.
338. *STENOTREMA MONODON ALICIAE* (Pilsbry) 1893. Singley 1893: 305 (*Helix monodon fraterna* Say); Strecker 1935: 14 (*Polygyra fraterna*); Pilsbry 1940: 679; Pilsbry and Hubricht 1956: 96.
339. *STRIATURA MERIDIONALIS* (Pilsbry and Ferriss) 1906. Singley 1893: 303 (*Zonites milium* Singley); Strecker 1935: 26; Pilsbry 1946: 493; Wheeler 1949: 7.
340. *STROBILOPS AENEA* Pilsbry 1926. Hubricht 1964: 27.
341. *STROBILOPS AFFINIS* Pilsbry 1893. Strecker 1935: 19.
342. *STROBILOPS HUBBARDI* A. D. Brown 1861. Singley 1893: 307 (*Helix*); Strecker 1935: 19; Pilsbry 1948: 865.
343. ? *STROBILOPS LABYRINTHICA* (Say) 1817. Singley 1893: 307 (*Helix*).
344. *STROBILOPS TEXASIANA* (Pilsbry and Ferriss) 1906. Strecker 1935: 18; Pilsbry 1948: 856; Wheeler 1949: 8.
345. *SUCCINEA AVARA* (Say) 1824. Singley 1893: 310; Strecker 1935: 30; Pilsbry 1948: 837.
346. *SUCCINEA CAMPESTRIS* Say 1817. Singley 1893: 311; Strecker 1935: 30; Pilsbry 1948: 826 (cites no Texas record).
347. *SUCCINEA CONCORDIALIS* Gould 1848. Singley 1893: 310; Strecker 1935: 30; Pilsbry 1948: 833; Wheeler 1949: 8.
348. *SUCCINEA GROSVENORI* Lea 1864. Singley 1893: 311, 311 (*S. lineata* Binney); Strecker 1935: 30; Pilsbry 1948: 819.
349. *SUCCINEA LUTEOLA* Gould 1848. Singley 1893: 310; Strecker 1935: 30; Pilsbry 1948: 828; Wheeler 1949: 7.
350. *SUCCINEA SOLASTRA* Hubricht 1961. Hubricht 1961: 30.
351. *SUCCINEA UNICOLOR* Tryon 1866. Pilsbry 1948: 817.
352. *TRIODOPSIS ALBOLABRIS* (Say) 1816. Singley 1893: 305 (*Helix*); Strecker 1935: 13 (*Polygyra*); Pilsbry 1940: 835 (no Texas records).
353. *TRIODOPSIS CRAGINI* Call 1886. Singley 1893: 305 (*Helix vultuosa* c.); Strecker 1935: 12 (*Polygyra vultuosa cragini*); Pilsbry 1940: 804 (no Texas record).
354. *TRIODOPSIS FRAUDULENTA VULGATA* Pilsbry 1940. Singley 1893: 305 (*Helix fallax*); Pilsbry 1940: 804.
355. *TRIODOPSIS VULTUOSA* (Gould) 1848. Singley 1893: 305; Strecker 1935: 12; Pilsbry 1940: 818.
356. *TRIODOPSIS VULTUOSA COPEI* (Wetherby) 1878. Singley 1893: 305; Strecker 1935: 12; Pilsbry 1940: 820.

357. TRIODOPSIS VULTUOSA HENRIETTAE (Mazyck) 1877. Singley 1893: 305; Strecker 1935: 12; Pilsbry 1940: 821.

358. TRUNCATELLA PULCHELLA Pfeiffer 1839. Pilsbry 1948: 1070.

359. VALLONIA COSTATA (Müller) 1774. Strecker 1935: 7.

360. VALLONIA CYCLOPHORELLA Sterki 1892. Pilsbry 1948: 1035.

361. VALLONIA EXCENTRICA Sterki 1883. Strecker 1935: 7.

362. VALLONIA GRACILICOSTA Reinhardt 1883. Singley 1893: 307 (*Helix*); Strecker 1935: 7.

363. VALLONIA PARVULA Sterki 1893. Pilsbry 1948: 1027.

364. VALLONIA PERSPECTIVA Sterki 1893. Strecker 1935: 7; Pilsbry 1944: 69; Pilsbry 1948: 1033.

365. VALLONIA PULCHELLA (Müller) 1774. Strecker 1935: 7; Pilsbry 1948: 1023.

366. VENTRIDENS DEMISSUS BRITTSI (Pilsbry) 1892. Singley 1893: 302 (*Zonites demissus* Binney); Strecker 1935: 26 (*V. demissus* Binney); Pilsbry 1946: 460.

367. VENTRIDENS INTERTEXTUS (Binney) 1841. Singley 1893: 302 (*Zonites*) Strecker 1935: 26; Pilsbry 1946: 468.

368. VERTIGO MILIUM Gould 1840. Singley 1893: 308 (*Pupa*); Strecker 1935: 22; Wheeler 1949: 8.

369. VERTIGO OSCARIANA Sterki 1890. Singley 1893: 309; Strecker 1935: 22; Pilsbry 1948: 946; Wheeler 1949: 8.

370. VERTIGO OVATA Say 1822. Singley 1893: 308; Strecker 1935: 22; Pilsbry 1944: 69; Pilsbry 1948: 952.

371. VERTIGO RUGOSULA Sterki 1890. Sing-

ley 1893: 308; Strecker 1935: 22; Pilsbry 1948: 948; Wheeler 1949: 8.

372. VERTIGO TRIDENTATA Wolf 1870. Singley 1893: 309; Strecker 1935: 22; Pilsbry 1948: 965; Wheeler 1949: 8.

373. ZONITES CADUCUS (Pfeiffer). Singley 1893: 302. We are unable to assign this species to the proper genus.

374. ZONITOIDES ARBOREUS (Say) 1816. Singley 1893: 302 (*Zonites*); Strecker 1935: 25; Pilsbry 1944: 69; Pilsbry 1946: 480; Wheeler 1949: 7.

LITERATURE CITED

BAKER, F. C. 1898. The Mollusca of the Chicago area. The Pelecypoda. -- Chicago Acad. Sci., Bull. III, Part I, 130 p., 27 pls.

----- 1911. The Lymnaeidae of North and Middle America, Recent and Fossil. Chicago Acad. Sci., Spec. Publ. No. 3, 539 p., 58 pls., 51 text figs.

----- 1928. The Fresh Water Mollusca of Wisconsin. -- Wis. Geol. and Nat. Hist. Survey, Bull. 70, Part I, Gastropoda, 507 p., pls. 1-28.

----- 1928. *Ibid.*, Part II, Pelecypoda. 495 p., 26 pls., 96 figs.

----- 1945. The Molluscan Family Planorbidae (with collation, revision and additions by Harley Jones Van Cleave). xxxvi + 530 p., 141 pls., text figs.

BRANSON, B. A. 1959. *Rumina decollata* in Oklahoma. -- *Nautilus* 73(1): 37.

----- 1960. *Gyraulus arizonensis* in Texas. -- *Nautilus* 74(1): 37.

CHEATUM, E. P. and ALLEN, Don. 1963. An ecological comparison of the Ben Franklin and Clear Creek local molluscan faunas in

- Texas. -- Jour. Grad. Res. Center, Southern Methodist Univ., v. 31, no. 3, p. 174-179.
- CLARKE, A.H. and BERG, C.O. 1959. The freshwater mussels of central New York. -- Agric. Exp. Station, Cornell Univ., New York, 79 p.
- DALL, W. H. 1905. Land and freshwater mollusks. -- Harriman Alaska Exped., XIII, p. 1-171, pls. i-ii, 118 text figs.
- FRYE, John C. and LEONARD, A. Byron. 1964. Relation of Ogallala Formation to the Southern High Plains in Texas. -- Univ. Texas, Bur. Econ. Geol., Rept. Inv. No. 51, 25 p., 1 pl., 3 figs.
- HANNA, G. D. 1923. Pleistocene freshwater mollusks from north central Texas. -- Nautilus 37(1): 25-26.
- HARRY, H. W. 1948. Notes on the foreign land snails of Louisiana. -- Nautilus 62(1): 20-24.
- HERRINGTON, H. B. 1962. A revision of the Sphaeriidae of North America (Mollusca: Pelecypoda). -- Mus. Zool., Univ. Michigan, Misc. Publ. No. 118, 74 p., 7 pls.
- HUBRICHT, Leslie. 1961. Eight new species of land snails from the southern United States. -- Nautilus 75(1): 26-33; 75(2): 60-64.
- JACKSON, R. W. 1944. *Otala vermiculata* Müller and *O. lactea* Müller in Texas. -- Nautilus 57(3): 105.
- JACOBSON, M. K. 1952. Some interesting localities on a collecting trip to Mexico. -- Nautilus 65(4): 109-114.
- LEONARD, A. B. 1948. Five new Yarmouthian Planorbis snails. -- Nautilus 62(2): 41-47.
- and FRYE, J.C. 1962. Pleistocene molluscan faunas and physiographic history of Pecos Valley in Texas. -- Univ. Texas, Bur. Econ. Geol., Rept. Inv. No. 45, 29 p., 4 pls.
- METCALF, A.L. 1966. *Corbicula manilensis* in the Mesillo Valley of Texas and New Mexico. -- Nautilus 80(1): 16-20.
- MURRAY, H. D. 1964. *Tarebia granifera* and *Melanoides tuberculata* in Texas (Abs.) Ann. Repts. for 1964, Amer. Malacol. Union, p. 15-16.
- and WILEY, S. 1968. New locality for *Limax marginatus*. -- Nautilus 81(3): 105-106.
- ORTMANN, A.E. 1919. A monograph of the Najades of Pennsylvania. Part III. Systematic account of the genera and species. -- Mem. Carnegie Mus., v. 8, no. 1, p. 1-384, 21 pls.
- 1912. Notes upon the families and genera of the Najades. -- Mem. Carnegie Mus., v. 8, p. 222-365, 20 pls.
- PARODIZ, J. J. 1954. A new species of *Humboldtiana* from Texas. -- Nautilus 67(4): 107-108.
- PILSBRY, H. A. 1939. Land Mollusca of North America (North of Mexico), v. 1, pt. 1. -- Acad. Nat. Sci. Phila., Monogr. 3, p. vii + 1-573.
- 1940. *Ibid.*, v. 1, pt. 2, p. vi + 575-994.
- 1944. Snails of Taylor County, Texas. -- Nautilus 58(2): 69.
- 1946. Land Mollusca of North America (North of Mexico), v. 2, pt. 1. -- Acad. Nat. Sci. Phila., Monogr. 3, p. vi + 1-520.
- 1948. *Ibid.*, v. 2, pt. 2, p. 521-1113.
- 1950. Notes on land snails of Texas. -- Nautilus 64(2): 56-58.

- 1952. A *Holospira* new to the United States. -- *Nautilus* 66(2): 69-70.
- and CHEATUM, E. P. 1951. Land snails from the Guadalupe Range, Texas. -- *Nautilus* 64(3): 87-90.
- and HUBRICHT, L. 1956. Beach drift Polygyridae from Southern Texas. -- *Nautilus* 69(3): 93-96.
- PRATT, W. L. 1964. Two eastern land snails new to Texas. -- *Nautilus* 78(1): 31.
- 1965. Notes on land snail distribution in Texas. -- *Nautilus* 78(4): 142.
- SIMMONS, F. L. 1954. Notes on Texas *Bulinulus*. -- *Nautilus* 68(1): 20-23.
- SIMPSON, C. T. 1900. Synopsis of the Naiades, or pearly fresh-water mussels. -- *Proc. U. S. Natl. Mus.*, v. 22, no. 1205, p. 501-1044.
- 1914. A descriptive catalogue of the Naiades or pearly fresh-water mussels. -- Detroit, Bryant Walker, 1540 p.
- SINGLEY, J. A. 1893. Contributions to the natural history of Texas; pt. I, Texas Mollusca. -- *Geol. Survey Texas, Fourth Ann. Rept.*, p. 297-343.
- SLAUGHTER, B. H., CROOK, W. J., HARRIS, R. K., ALLEN, D. C., and SEIFERT, M. 1962. The Hill-Shuler local faunas of the upper Trinity River in Dallas and Denton counties, Texas. -- *Univ. Texas, Bur. Econ. Geol., Rept. Inv.* 48, 75 p.
- STERKI, V. 1916. A preliminary catalogue of the North American Sphaeriidae. -- *Ann. Carnegie Mus.*, v. 10, nos. 3 and 4, p. 429-474.
- STRECKER, J. K. 1931. The distribution of the Naiades or pearly fresh-water mussels of Texas. -- *Baylor Univ. Mus., Special Bull.* no. 2, 69 p.
- 1935. Land and fresh-water snails of Texas. -- *Trans. Texas Acad. Sci.*, 17:
- STRICKLIN, Fred L., Jr. 1961. Degradational stream deposits of the Brazos River, Central Texas. -- *Geol. Soc. Amer., Bull.*, v. 72, no. 1, p. 19-36.
- WALKER, B. 1915. A list of shells collected in Arizona, New Mexico, Texas and Oklahoma by Dr. E. C. Case. -- *Occ. Papers Mus. Zool., Univ. Michigan*, no. 15, p. 1-11.
- 1918. A synopsis of the classification of the freshwater Mollusca of North America, north of Mexico, and a catalogue of the more recently described species, with notes. -- *Misc. Publ. No. 6, Mus. Zool., Univ. Michigan*, 213 p., 1 pl., 233 text figs.
- WHEELER, H. E. 1949. *Polygyra hippocrepis* and its author: Louis Pfeiffer. -- *Nautilus* 63(2): 1-9.
- WURTZ, C. B. 1949. *Physa heterostropha* (Say). *Nautilus* 63(1): 20-33.
- 1951. Catalogue of Ancyliidae of South and Central America and West Indies, with description of a new species. -- *Nautilus* 64(3): 123-131.

MANUSCRIPT RECEIVED AND ACCEPTED
FOR PUBLICATION
MAY, 1968.