

A CHECKLIST OF NORTH DAKOTA PLEISTOCENE AND
RECENT MOLLUSCA

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NOTE. The following list of North Dakota mollusks is as complete as I can make it at this time. It is presented with the hope that it will stimulate correction and addition on the part of other workers. Only two checklists of North Dakota mollusks have been published, Daniels (1920) and Winslow (1921). Because the Red River forms a major portion of the eastern boundary of the state, reports of occurrence of species of mollusks in this river are included here. Two sources of these are Dall (1905) and Dawley (1947). Neither work makes specific mention of North Dakota, but it is assumed that mollusks do not recognize political boundaries and species listed for the Red River will be found on the North Dakota side as well as the Minnesota side.

It will be noticed that the sphaeriid clams, the slugs, and the operculate snails are poorly represented in this list. No extensive study of the state's molluscan fauna has been made, but these taxa are particularly poorly known.

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The original citation, the author of the species, the date of original description, the author

of the record, the date of the record, and the page reference are given in each entry. Where I consider the name of the original citation to be obsolete, a note indicating synonymy follows the above information. All species and subspecies are listed as originally published and are consecutively numbered. An asterisk (*) preceding an entry indicates that specimens are in the collections of the University of North Dakota. The letters UND following an entry indicate that specimens are in the collections of the University of North Dakota, but no record of the occurrence of the species in North Dakota has been previously reported.

I. NAIADES

1. ACTINONAIAS CARINATA (Barnes) 1823.
Dawley 1947: 679.

2. ACTINONAIAS ELLIPSIIFORMIS (Conrad)
1836. Dall 1905: 126.

3. *AMBLEMA COSTATA Rafinesque 1820.
Dawley 1947: 679.

4. *ANODONTA GRANDIS Say 1829. Dall
1905: 129, Winslow 1921: 15, Dawley 1947:
679, Tuthill 1961: 20.

5. ?ANODONTA KENNICOTTI Lea 1861. Winslow 1921: 15.
6. ANODONTA PEPINIANA Lea 1838. Winslow 1921: 15.
7. °ANODONTOIDES FERUSSACIANUS (Lea) 1834. Dall 1905: 131, Tuthill 1961: 20.
8. FUSCONAIA FLAVA (Rafinesque) 1818. Dall, 1905: 134, Dawley 1947: 679.
9. LAMPSILIS ALATUS Say 1817. Dall 1905: 126 (see Proptera alata).
10. LAMPSILIS ELLIPSIFORMIS Conrad 1836. Dall 1905: 126 (see Actinonaias ellipsiformis).
11. LAMPSILIS GRACILIS Barnes 1823. Dall 1905: 127 (see Leptodea fragilis).
12. LAMPSILIS LUTEOLA Lamarck 1819. Dall 1905: 125, Winslow 1921: 15 (see Lampsilis radiata siliquoidea).
13. LAMPSILIS RECTUS Lamarck 1819. Dall 1905: 125 (see Ligumia recta).
14. °LAMPSILIS RADIATA SILIQUOIDEA (Barnes) 1823. Dall 1905: 125, Winslow 1921: 15, Dawley 1947: 679.
15. °LAMPSILIS VENTRICOSA (Barnes) 1823. UND.
16. °LASMIGONA COMPLANATA (Barnes) 1823. Dall 1905: 131.
17. LASMIGONA COMPRESSA (Lea) 1829. Winslow 1921: 15.
18. LEPTODEA FRAGILIS Rafinesque 1820. Dall 1905: 127.
19. °LIGUMIA RECTA (Lamarck) 1819. Dall 1905: 126.
20. °LIGUMIA RECTA LATISSIMA (Rafinesque) 1820. Dawley 1947: 679.
21. MEGALONAIAS GIGANTEA (Barnes) 1823. Dall 1905: 133.
22. OBLIQUARIA REFLEXA Rafinesque 1820. Dall 1905: 133.
23. °PROPTERA ALATA (Say) 1817. Dall 1905: 126.
24. PROPTERA ALATA MEGAPTERA Rafinesque 1820. Dawley 1947: 679.
25. QUADRULA LACHRYMOSA Lea 1827. Dall 1905: 134 (see Quadrula quadrula).
26. °QUADRULA QUADRULA Rafinesque 1820. Dall 1905: 134, Dawley 1947: 679.
27. QUADRULA RUBIGINOSA Lea 1829. Dall 1905: 134 (see Fusconaia flava).
28. QUADRULA UNDULATA Barnes 1823. Dall 1905: 133 (see Megaloniaias gigantea).
29. STROPHITUS RUGOSUS (Swainson) 1822. Dall 1905: 127, Dawley 1947: 679 (see Strophitus undulatus).
30. STROPHITUS UNDULATUS (Say) 1817. Dall 1905: 127, Dawley 1947: 679.
31. SYMPHYNOTA COMPLANATA Barnes 1823. Dall 1905: 131 (see Lasmigona complanata).

2. SPHAERIIDAE

32. MUSCULIUM JAYENSE (Prime) 1851. Winslow 1921: 16 (see Sphaerium [Musculium] transversum).
33. MUSCULIUM TRANSVERSUM (Say) 1829. Winslow 1921: 16 (see Sphaerium [Musculium] transversum).

34. *PISIDIUM sp. Tuthill 1961: 21, Clayton 1961: 73.

35. PISIDIUM APICULATUM Sterki 1921. Winslow 1921: 16 (see *P. subtruncatum*).

36. PISIDIUM COMPRESSUM Prime 1851. Winslow 1921: 16.

37. PISIDIUM CONTORTUM Prime 1853. Winslow 1921: 16 (a form of *P. nitidum*).

38. PISIDIUM NITIDUM Jenyns 1832. Winslow 1921: 16.

39. PISIDIUM OBTUSALE C. Pfeiffer 1821. Winslow 1921: 16.

40. PISIDIUM PAUPERCULUM Sterki 1896. Winslow 1921: 16 (see *P. nitidum*).

41. PISIDIUM SUBTRUNCATUM Malm 1855. Winslow 1921: 16.

42. PISIDIUM TENUISSIMUM Sterki 1901. Winslow 1921: 16 (see *P. nitidum*).

43. PISIDIUM VARIABILE Prime 1851. Winslow 1921: 16.

44. PISIDIUM VARIABILE BREVIUS Sterki 1906. Winslow 1921: 16.

45. PISIDIUM VESICULARE Sterki. Winslow 1921: 16 (see *P. obtusale*).

46. SPHAERIUM sp. Winslow 1921: 16.

47. SPHAERIUM DECLIVE Sterki 1922. Winslow 1921: 15 (see *S. striatinum*).

48. SPHAERIUM JAYENSE (Prime) 1851. Winslow 1921: 15 (see *S. lacustre*).

49. *SPHAERIUM SIMILE Say 1817. Dall 1905: 134, Tuthill 1961: 21.

50. SPHAERIUM SOLIDULUM Prime 1851, Dall 1905: 136, (See *S. striatinum*).

51. SPHAERIUM SULCATUM (Lamarck) 1818. Winslow 1921: 16.

52. SPHAERIUM TRANSVERSUM (Say) 1829. Winslow 1921: 16.

3. FRESHWATER PULMONATES

53. *APLEXA HYPNORUM (Linne) 1758. Winslow 1921: 14.

54. *APLEXA HYPNORUM TRYONI Currier 1867. Winslow 1921: 14.

55. *ARMIGER CRISTA (Linne) 1758. Clayton 1961: 14.

56. *FERRISSIA PARALLELA (Haldeman) 1841. Winslow 1921: 15.

57. *FERRISSIA RIVULARIS (Say) 1819. Winslow 1921: 15.

58. FERRISSIA TARDA (Say) 1830. Winslow 1921: 15.

59. FOSSARIA OBRUSSA (Say) 1825. Tuthill 1961: 20 (see *Lymnaea humilis*).

60. GYRAULUS sp. Clayton 1961: 15, Tuthill 1961: 20, Thompson 1962: in press.

61. GYRAULUS ALTISSIMUS (Baker) 1919. Winslow 1921: 11.

62. GYRAULUS CIRCUMSTRIATUS (Tryon) 1866. Winslow 1921: 11.

63. GYRAULUS CIRCUMSTRIATUS WALKERI (Vanatta) 1902. Winslow 1921: 12.

64. GYRAULUS DEFLECTUS (Say) 1824. Winslow 1921: 11.

65. °GYRAULUS PARVUS (Say) 1817. Winslow 1921: 12, Clayton 1961: 13, Tuthill 1961: 20.
66. °GYRAULUS PARVUS WALKERI Vanatta 1902. Winslow 1921: 12 (see *Gyraulus circumstriatus walkeri*).
67. °HELISOMA sp. Tuthill 1961: 20.
68. °HELISOMA ANCEPS (Menke) 1830. Clayton 1961: 15, Tuthill 1961: 20.
69. °HELISOMA CAMPANULATUM (Say) 1821. Dall 1905: 90, Clayton 1961: 14.
70. °HELISOMA TRIVOLVIS (Say) 1817. Dall 1905: 88, Winslow 1921: 12, Clayton 1961: 13.
71. LYMNAEA BULIMOIDES Lea 1841. Winslow 1921: 10.
72. LYMNAEA BULIMOIDES COCKERELLI Pilsbry and Ferriss 1906. Winslow 1921: 10 (see *Lymnaea bulimoides*).
73. LYMNAEA CAPERATA Say 1829. Winslow 1921: 10 (see *Lymnaea humilis*).
74. LYMNAEA DALLI Baker 1905. Winslow 1921: 10 (see *Lymnaea humilis*).
75. °LYMNAEA HUMILIS (Say) 1822. Winslow 1921: 10.
76. LYMNAEA OBRUSSA EXIGUA Lea 1865. Winslow 1921: 10 (see *Lymnaea humilis*).
77. °LYMNAEA PALUSTRIS (MÜLLER) 1774. Dall 1905: 76, Winslow 1921: 10.
78. °LYMNAEA STAGNALIS (Linne) 1758. Winslow 1921: 11.
79. LYMNAEA STAGNALIS APPRESSA Say 1821. Winslow 1921: 11 (see *L. stagnalis*).
80. PHYSA AMPULLACEA Gould 1865. Winslow 1921: 14.
81. PHYSA INTEGRALIS (Haldeman) 1841. Winslow 1921: 14.
82. °PHYSA cf. P. LORDI (Baird) 1863. UND.
83. °PHYSA cf. P. ELLIPTICA Lea 1837. UND.
84. °PHYSA cf. P. GYRINA Say 1821. UND.
85. PLANORBIS ALTISSIMUS Baker 1919. Winslow 1921: 11 (see *Gyraulus altissimus*).
86. PLANORBIS ANTROSUS STRIATUS Baker 1902. Winslow 1921: 11 (see *Helisoma anceps*).
87. PLANORBIS (PLANORBELLA) CAMPANULATUS Say 1821. Dall 1905: 90 (see *Helisoma campanulatum*).
88. PLANORBIS CIRCUMSTRIATUS Tryon 1866. Winslow 1921: 11 (see *Gyraulus circumstriatus*).
89. PLANORBIS DEFLECTUS Say 1824. Winslow 1921: 11 (see *Gyraulus deflectus*).
90. PLANORBIS EXACUOUS Say 1821. Winslow 1921: 11 (see *Promenetus exacuus*).
91. PLANORBIS PARVUS Say 1817. Winslow 1921: 12 (see *Gyraulus parvus*).
92. PLANORBIS PARVUS WALKERI Vanatta 1902. Winslow 1921: 12 (see *Gyraulus circumstriatus*).
93. PLANORBIS TRIVOLVIS Say 1817. Dall 1905: 88, Winslow 1921: 12 (see *Helisoma trivolis*).
94. PLANORBIS UMBILICATELLUS Cockerell 1885. Winslow 1921: 12 (see *Promenetus umbilicatus*).

95. *PLANORBULA CAMPESTRIS* (Dawson) 1875, Winslow 1921: 12.

96. *PROMENETUS EXACUOUS* (Say) 1821. Winslow 1921: 11, Clayton 1961: 14.

97. *SEGMENTINA CHRISTYI* Dall 1905. Winslow 1921: 12 (see *Planorbula campestris*).

4. FRESHWATER OPERCULATES

98. *AMNICOLA CINCINNATIENSIS* (Anthony) 1841. Winslow 1921: 15 (see *Amnicola (Cincinnati) integra*).

99. *AMNICOLA EMARGINATA* Kuster 1852. Dall 1905: 118, Winslow 1921: 15.

100. *AMNICOLA (CINCINNATIA) INTEGRATA* (Say) 1821. Winslow 1921: 15.

101. *AMNICOLA LEIGHTONI* Baker 1920. Clayton 1960: 13, Tuthill 1960: 20.

102. *AMNICOLA LIMOSA* (Say) 1817. Winslow 1921: 15.

103. *AMNICOLA LIMOSA PORATA* (Say) 1821. Winslow 1921: 15 (see *Amnicola limosa*).

104. *AMNICOLA LUSTRICA* Pilsbry 1890. UND.

105. *VALVATA BICARINATA* Lea 1841, Tuthill 1960: 20.

106. *VALVATA TRICARINATA* (Say) 1817. Winslow 1921: 15, Clayton 1961: 13, Tuthill 1961: 20.

5. LAND GASTROPODS

107. *AGRIOLIMAX CAMPESTRIS* (Say) (Binney) 1842. Winslow 1921: 8 (see *Deroceras laeve*).

108. *ARION ATER* (Linne) 1758. Post 1959: 104.

109. *BIFIDARIA HOLZINGERI* Sterki 1889. Dall 1905: 28 (see *Gastrocopta holzingeri*).

110. *CARYCHIUM* sp. UND.

111. *CARYCHIUM EXIGUUM* (Say) 1822. Winslow 1921: 10.

112. *CARYCHIUM EXILE* Lea 1842. Dall 1905: 116.

113. *CARYCHIUM EXILE CANADENSE* Clapp 1906. Winslow 1921: 10.

113a. *CATINELLA GROSVENORI* (Lea) 1864. Winslow 1921: 8, Pilsbry 1948: 820.

113b. *CATINELLA GROSVENORI GELIDA* (Baker) 1927. Thompson: in press.

114. *CIONELLA LUBRICA* (Müller) 1774. Dall 1905: 33, Daniels 1920: 29, Winslow 1921: 9.

115. *COCHLICOPA LUBRICA* (Müller) 1774. Dall 1905: 33, Daniels 1920: 29, Winslow 1921: 9 (see *Cionella lubrica*).

116. *DEROCERAS* sp. Thompson 1962: in press.

117. *DEROCERAS LAEVE* (Müller) 1774. Winslow 1921: 8.

118. *DISCUS CRONKHITI* (Newcomb) 1865. Daniels 1920: 29, Winslow 1921: 8.

119. *EUCONULUS FULVUS* (Müller) 1774. Winslow 1927: 7, Thompson 1962: in press.

120. *GASTROCOPTA ARMIFERA* (Say) 1821. Daniels 1920: 29.

121. *GASTROCOPTA ARMIFERA SIMILIS* Sterki 1909. Winslow 1921: 9.

122. *GASTROCOPTA CONTRACTA (Say) 1822. Winslow 1921: 9.
123. *GASTROCOPTA HOLZINGERI (Sterki) 1889. Dall 1905: 28, Daniels 1920: 29, Winslow 1921: 28.
- 123a. GASTROCOPTA HOLZINGERI AGNA (Pilsbry and Vanatta) 1916. Daniels 1920: 29.
124. HAWAIIA MINUSCULA (Binney) 1840. Winslow 1921: 8.
125. *HELICODISCUS PARALLELUS (Say) 1821. UND.
126. NESOVITREA BINNEYANA (Morse) 1864. Winslow 1921: 7.
127. NESOVITREA ELECTRINA (Gould) 1841. Daniels 1920: 29, Winslow 1921: 7, Pilsbry 1946: 257.
128. OXYLOMA HAYDENI (W. G. Binney) 1858. Winslow 1921: 8.
129. OXYLOMA HAYDENI MINOR (W. G. Binney) 1858. Winslow 1921: 9.
130. *OXYLOMA RETUSA (Lea) 1834. Winslow in Pilsbry 1948: 786.
131. *PUPILLA BLANDI Morse 1865. Morse 1865: 211.
132. *PUPILLA MUSCORUM (Linne) 1758. Winslow 1921: 9.
133. PYRAMIDULA CRONKHITEL ANTHONYI Pilsbry 1906. Daniels 1920: 29, Winslow 1921: 8 (see Discus cronkhitei).
134. QUICKELLA VERMETA (Say) 1829. Daniels 1920: 29, Winslow 1921: 8.
135. STRIATURA MILIUM (Morse) 1859. Winslow 1921: 8.
136. *STROBILOPS LABYRINTHICA (Say) 1817. UND.
137. *SUCCINEA AVARA (Say) 1824. Winslow 1921: 8, Clayton 1960: 15.
138. SUCCINEA AVARA VERMETA (Say) 1829. Daniels 1920: 29, Winslow 1921: 8 (see Quickella vermeta).
139. SUCCINEA GROSVENORI Lea 1864. Winslow 1921: 8, Pilsbry 1948: 820 (see Catinella grosvenori).
140. SUCCINEA GROSVENORI GELIDA Baker 1927. Thompson 1962: in press (see Catinella grosvenori gelida).
141. SUCCINEA HAYDENI (W. G. Binney) 1858. Winslow 1921: 8 (see Oxyloma haydeni).
142. SUCCINEA HAYDENI MINOR W. G. Binney 1858. Winslow 1921: 9 (see Oxyloma haydeni minor).
143. *SUCCINEA OVALIS Say 1817. Pilsbry 1948: 803.
144. SUCCINEA RETUSA Lea 1834. Daniels 1920: 29 (see Oxyloma retusa).
145. VALLONIA COSTATA (Müller) 1774. Daniels 1920: 29.
146. VALLONIA CYCLOPHORELLA Sterki 1892. H. B. Baker in Pilsbry 1948: 1035.
147. *VALLONIA GRACILICOSTA Reinhardt 1883. Winslow 1921: 10, Pilsbry 1948: 1029.
148. VALLONIA PERSPECTIVA Sterki 1893. Daniels 1920: 29, Winslow 1921: 10, H. B. Baker in Pilsbry 1948: 1034.
149. *VALLONIA PULCHELLA (Müller) 1774. UND.

150. *VERTIGO* sp. Winslow 1921: 9.
151. *VERTIGO COLORADENSIS* (Cockerell) 1891. Winslow 1921: 9 (see *Vertigo gouldi coloradensis*).
152. *VERTIGO ELATIOR* Sterki 1931. Winslow 1921: 9.
153. *VERTIGO GOULDI* (Binney) 1843. Winslow 1921: 9.
154. *VERTIGO GOULDI COLORADENSIS* (Cockerell) 1891. Winslow 1921: 9.
155. *VERTIGO MODESTA* (Say) 1824. UND.
156. *VERTIGO OVATA* Say 1822. Winslow 1921: 9.
157. °*VERTIGO* cf. *V. VENTRICOSA* (Morse) 1865. Thompson 1962; in press.
158. *VERTIGO VENTRICOSA ELATIOR* Sterki 1894. Winslow 1921: 9 (see *V. elatior*).
159. *VITREA HAMMONIS* (Ström) 1767. Daniels 1920: 29, Winslow 1921: 7 (see *Nesovitrea electrina*).
160. *VITREA BINNEYANA* (Morse) 1864. Winslow 1921: 7 (see *Nesovitrea binneyana*).
161. *VITRINA ALASKANA* Dall 1905. Winslow 1921: 7.
162. °*VITRINA LIMPIDA* Gould 1850. UND.
163. °*ZONITOIDES ARBOREA* (Say) 1816. Winslow 1921: 8 (**Z. arboreus*).
164. *ZONITOIDES MILIUM* (Morse) 1859. Winslow 1921: 8 (see *Striatura milium*).
165. *ZONITOIDES MINUSCULUS* (Binney) 1840. Winslow 1921: 8 (see *Hawaiiia minuscula*).

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