

A Provisional List of the North American Sphaeriidae: Common, Scientific Names, and Distribution.

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During the Freshwater Mollusk Conservation Society (FMCS) Bivalve Common and Scientific Names Subcommittee meeting held 10 April 2023 in Portland, Oregon, we discussed expanding the FMCS list of freshwater bivalves to include the Sphaeriidae. These are Fingernail, Pill or Pea clams and have a global distribution excluding Antarctica. This family was not included in Williams et al. (2017) and has not been included in the FMCS lists (2019, 2021, 2023) of freshwater bivalves of North America. The committee discussed this addition and noted the current limited active systematic and taxonomic research on this family in the United States, Canada and Mexico.

Sphaeriidae is the second largest freshwater bivalve family currently containing 260 recognized modern species in two subfamilies and eight genera (MolluscaBase, 2024) or 272 recognized species in nine genera (MUSSELp). Bogan (2008) reported 196 species, while Graf (2013), Lee (2019), and Graf and Cummings (2021) estimated current worldwide Sphaeriidae diversity at 227 species. The most recent Sphaeriinae phylogeny was by Bernal et al. (2023).

Herrington (1962) revised the Sphaeriidae of North America (Canada and the United States only). An illustrated key to the North American species was provided by Burch (1972, 1975). Sphaeriidae was included in the two editions of the American Fisheries Society list of scientific and common names of mollusks of the US and Canada (Turgeon et al., 1988, 1998). The most recent work covering this family in North America was produced by Mackie (2007), who overlooked *Pisidium sanguinichristi* D.W. Taylor, 1987 and recognized *Pisidium moitessierianum* (Paladilhe, 1866), now *Odhneripisidium moitessierianum*, as introduced into the Great Lakes (Mackie, 2007). The common name Pygmy Peaclam was used for *Pisidium*

moitessierianum by the Great Lakes Aquatic Nonindigenous Species Information System [NOAA GLANSIS] (2024a) and the introduced distribution confirmed (See Grigorovich, Korniushev and MacIsaac, 2000; Korniushev, Grigorovich and Mackie, 2001; United States Geological Survey, Nonindigenous Aquatic Species, 2024a).

The taxonomy for the species reported from Canada and the United States has not been updated in the past 16 years. Table 1 and Table 2 were constructed using Turgeon et al. (1998), Mackie (2007), MUSSELp (2024) and MolluscaBase (2024) to update our current taxonomic understanding of the North American fauna and provide a new provisional list. The new updated list of Mexican Sphaeriidae compiled by Bogan and Naranjo-Garcia (2024) has been included.

The Canadian and United States Sphaeriidae fauna is updated in Table 1. The North American fauna is summarized in Table 2 including common names (both English and Spanish) for Canada, Mexico and the United States. The distribution data for Canada and the United States is from Mackie (2007) and may not include all the states or provinces where the species occurs. This is an area for future research. This fauna is comprised of 34 species known from Canada, 19 from Mexico and 40 from the United States for a total North American sphaeriid fauna of 50 species.

Halabowski et al. (2024) has provided an overview of the European Sphaeriidae fauna and the problems they are facing. We are facing these same problems and they provide a useful flow diagram of the systematics, zoogeography and conservation needs that may be used as a starting point for the North American Sphaeriidae.

We encourage constructive comments and suggestions regarding this preliminary list.

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Table 1. Comparison of the various classifications for the Sphaeriidae of Canada and the United States with an updated generic placement of the species.

Turgeon et al. (1998)	Mackie (2007)	MolluscaBase (2024)	MUSSEL p (2024)	Updated Canada and US list
<i>Eupera cubensis</i> (Prime, 1865)	<i>Eupera cubensis</i>	<i>Eupera cubensis</i>	<i>Eupera cubensis</i>	<i>Eupera cubensis</i> (Prime, 1865)
<i>Musculium lacustre</i> (Müller, 1774)	<i>Musculium lacustre</i>	<i>Sphaerium lacustre</i>	<i>Sphaerium lacustre</i>	<i>Sphaerium lacustre</i> (Müller, 1774)
<i>Musculium partumeium</i> (Say, 1822)	<i>Musculium partumeium</i>	<i>Sphaerium partumeium</i>	<i>Sphaerium partumeium</i>	<i>Sphaerium partumeium</i> (Say, 1822)
<i>Musculium securis</i> (Prime, 1852)	<i>Musculium securis</i>	<i>Sphaerium securis</i>	<i>Sphaerium securis</i>	<i>Sphaerium securis</i> (Prime, 1852)
<i>Musculium transversum</i> (Say, 1829)	<i>Musculium transversum</i>	<i>Sphaerium transversum</i>	<i>Sphaerium transversum</i>	<i>Sphaerium transversum</i> (Say, 1829)
<i>Pisidium adamsi</i> Stimpson, 1851*	<i>Pisidium adamsi</i> *	<i>Euglesa adamsii</i>	<i>Euglesa adamsii</i>	<i>Euglesa adamsii</i> (Stimpson, 1851)
<i>Pisidium amnicum</i> (Müller, 1774)	<i>Pisidium amnicum</i>	<i>Pisidium amnicum</i>	<i>Pisidium amnicum</i>	<i>Pisidium amnicum</i> (Müller, 1774)
<i>Pisidium casertanum</i> (Poli, 1791)	<i>Pisidium casertanum</i>	<i>Euglesea casertana</i>	<i>Euglesa casertana</i>	<i>Euglesa casertana</i> (Poli, 1791)
<i>Pisidium compressum</i> Prime, 1852	<i>Pisidium compressum</i>	<i>Euglesa compressa</i>	<i>Euglesa compressa</i>	<i>Euglesa compressa</i> (Prime, 1852)
<i>Pisidium conventus</i> Clessin, 1877	<i>Pisidium conventus</i>	<i>Conventus conventus</i>	<i>Conventus conventus</i>	<i>Conventus conventus</i> (Clessin, 1877)
<i>Pisidium cruciatum</i> Sterki, 1895	<i>Pisidium cruciatum</i>	<i>Pisidium cruciatum</i>	<i>Pisidium cruciatum</i>	<i>Pisidium cruciatum</i> Sterki, 1895
<i>Pisidium dubium</i> (Say, 1817)	<i>Pisidium dubium</i>	<i>Pisidium dubium</i>	<i>Pisidium dubium</i>	<i>Pisidium dubium</i> (Say, 1817)
<i>Pisidium equilaterale</i> Prime, 1852	<i>Pisidium equilaterale</i>	<i>Euglesa equilateralis</i>	<i>Euglesa equilateralis</i>	<i>Euglesa equilateralis</i> (Prime, 1852)
<i>Pisidium fallax</i> Sterki, 1896	<i>Pisidium fallax</i>	<i>Euglesa fallax</i>	<i>Euglesa fallax</i>	<i>Euglesa fallax</i> (Sterki, 1896)

<i>Pisidium ferrugineum</i> Prime, 1852	<i>Pisidium ferrugineum</i>	<i>Euglesa ferruginea</i>	<i>Euglesa ferruginea</i>	<i>Euglesa ferruginea</i> (Prime, 1852)
<i>Pisidium henslowanum</i> (Sheppard, 1825)	<i>Pisidium henslowanum</i>	<i>Euglesa henslowana</i>	<i>Euglesa henslowana</i>	<i>Euglesa henslowana</i> (Sheppard, 1825)
<i>Pisidium idahoense</i> Roper, 1890	<i>Pisidium idahoense</i>	<i>Pisidium idahoense</i>	<i>Pisidium idahoense</i>	<i>Pisidium idahoense</i> Roper, 1891
<i>Pisidium insigne</i> Gabb, 1868	<i>Pisidium insigne</i>	<i>Conventus insigne</i>	<i>Conventus insigne</i>	<i>Conventus insigne</i> (Gabb, 1870)
<i>Pisidium lilljeborgi</i> (Clessin in Esmark and Hoyer, 1886)	<i>Pisidium lilljeborgi</i>	<i>Euglesa lilljeborgii</i>	<i>Euglesa lilljeborgii</i>	<i>Euglesa lilljeborgii</i> (Clessin in Esmark & Hoyer, 1886)
<i>Pisidium milium</i> Held, 1836	<i>Pisidium milium</i>	<i>Euglesa milium</i>	<i>Euglesa milium</i>	<i>Euglesa milium</i> (Held, 1836)
	<i>Pisidium moitessierianum</i> Paladilhe, 1866	<i>Odhneripisidium moitessierianum</i>	<i>Odhneripisidium moitessierianum</i>	<i>Odhneripisidium moitessierianum</i> (Paladilhe, 1866)
<i>Pisidium nitidum</i> Jenyns, 1832	<i>Pisidium nitidum</i>	<i>Euglesa nitida</i>	<i>Euglesa nitida</i>	<i>Euglesa nitida</i> (Jenyns, 1832)
<i>Pisidium punctatum</i> Sterki, 1895	<i>Pisidium punctatum</i>	<i>Pisidium punctatum</i>	<i>Pisidium punctatum</i>	<i>Pisidium punctatum</i> Sterki, 1896
<i>Pisidium punctiferum</i> (Guppy, 1867)	<i>Pisidium punctiferum</i>	<i>Pisidium punctiferum</i>	<i>Pisidium punctiferum</i>	<i>Pisidium punctiferum</i> (Guppy, 1867)
<i>Pisidium rotundatum</i> Prime, 1852	<i>Pisidium rotundatum</i>	<i>Euglesa rotundata</i>	<i>Euglesa rotundata</i>	<i>Euglesa rotundata</i> (Prime, 1852)
<i>Pisidium sanguinichristi</i> Taylor, 1987		<i>Pisidium sanguinichristi</i>	<i>Pisidium sanguinichristi</i>	<i>Pisidium sanguinichristi</i> Taylor, 1987
<i>Pisidium subtruncatum</i> Malm, 1855	<i>Pisidium subtruncatum</i>	<i>Euglesa subtruncata</i>	<i>Euglesa subtruncata</i>	<i>Euglesa subtruncata</i> (Malm, 1855)
<i>Pisidium supinum</i> Schmidt, 1850	<i>Pisidium supinum</i>	<i>Euglesa supina</i>	<i>Euglesa supina</i>	<i>Euglesa supina</i> Schmidt, 1850
<i>Pisidium ultramontanum</i> Prime, 1865	<i>Pisidium ultramontanum</i>	<i>Euglesa ultramontana</i>	<i>Euglesa ultramontana</i>	<i>Euglesa ultramontana</i> (Prime, 1865)
<i>Pisidium variabile</i> Prime, 1852	<i>Pisidium variabile</i>	<i>Euglesa variabilis</i>	<i>Euglesa variabilis</i>	<i>Euglesa variabilis</i> (Prime, 1852)

<i>Pisidium ventricosum</i> Prime, 1851	<i>Pisidium ventricosum</i>	<i>Euglesa ventricosa</i>	<i>Euglesa ventricosa</i>	<i>Euglesa ventricosa</i> (Prime, 1851)
<i>Pisidium walkeri</i> Sterki, 1895	<i>Pisidium walkeri</i>	<i>Euglesa walkeri</i>	<i>Euglesa walkeri</i>	<i>Euglesa walkeri</i> (Sterki, 1895)
<i>Sphaerium corneum</i> (Linnaeus, 1758)	<i>Sphaerium corneum</i>	<i>Sphaerium corneum</i>	<i>Sphaerium corneum</i>	<i>Sphaerium corneum</i> (Linnaeus, 1758)
<i>Sphaerium fabale</i> (Prime, 1852)	<i>Sphaerium fabale</i>	<i>Sphaerium fabale</i>	<i>Sphaerium fabale</i>	<i>Sphaerium fabale</i> (Prime, 1852)
<i>Sphaerium nitidum</i> Westerlund, 1876	<i>Sphaerium nitidum</i>	<i>Sphaerium nitidum</i>	<i>Sphaerium nitidum</i>	<i>Sphaerium nitidum</i> Clessin in Westerlund, 1876
<i>Sphaerium occidentale</i> (Lewis, 1856)	<i>Sphaerium occidentale</i>	<i>Sphaerium occidentale</i>	<i>Sphaerium occidentale</i>	<i>Sphaerium occidentale</i> (Lewis, 1856)
<i>Sphaerium patella</i> (Gould, 1850)	<i>Sphaerium patella</i>	<i>Sphaerium patella</i>	<i>Sphaerium patella</i>	<i>Sphaerium patella</i> (Gould, 1850)
<i>Sphaerium rhomboideum</i> (Say, 1822)	<i>Sphaerium rhomboideum</i>	<i>Sphaerium rhomboideum</i>	<i>Sphaerium rhomboideum</i>	<i>Sphaerium rhomboideum</i> (Say, 1822)
<i>Sphaerium simile</i> (Say, 1817)	<i>Sphaerium simile</i>	<i>Sphaerium simile</i>	<i>Sphaerium simile</i>	<i>Sphaerium simile</i> (Say, 1817)
<i>Sphaerium striatinum</i> (Lamarck, 1818)	<i>Sphaerium striatinum</i>	<i>Sphaerium striatinum</i>	<i>Sphaerium striatinum</i>	<i>Sphaerium striatinum</i> (Lamarck, 1818)

*Misspelled, originally described as *P. adamsii*.

TABLE 2. Revised list of the Sphaeriidae reported from North America: Canada, United States and Mexico. Mexican taxa, common names, and distribution from Bogan and Naranjo-Garcia (2024).

New North American Sphaeriidae List	English Common Names	Spanish Common Names	North American Distribution
<i>Conventus conventus</i> (Clessin, 1877)	Alpine Peaclam		Can: AB,BC,MB,NT,ON,QC,SK,YT. US: AL,AS,CO,MI,NY,WA.
<i>Conventus insigne</i> (Gabb, 1870)	Tiny Peaclam		Can: BC,ON,PI. US: AZ,CA,COL,ID,ME,MI,MT,NV,NM,NY,OR,PA,WA,WY. Mex: VER.
<i>Euglesa adamsii</i> (Stimpson, 1851)	Adams Peaclam***		Can: NB,NF,NS,ON,QT,SK. US: AL,CO,DE,FL,GA,IL,IN,IO,KS,MA,ME,MI,MT,NH,NJ,NY,OH,PA,TN,TX,VA,WI.
<i>Euglesa casertana</i> (Poli, 1791)	Ubiquitous Peaclam		Can: AB,BC,MB,NB,NF,NT,NS,ON,PI,QC,SK,YT. US: AL,AK,AZ,AR,CA,CO,CT,DE,FL,GA,ID,IL,IN,IO,KS,KY,LA,MA,ME,MD,MI,MN,MS,MO,MT,NC,ND,NE,NV,NH,NJ,NM,NV,NY,OH,OK,OR,PA,RI,SC,SD,TN,TX,UT,VT,VA,WA,WV,WI,WY. Mex: EDOMEX,VER.
<i>Euglesa compressa</i> (Prime, 1852)	Ridgebeak Peaclam	Almeja Comprimida	Can: AL,BC,MB,NT,ON,PI,QC,SK. US: AL,AK,AZ,AR,CO,GA,ID,IL,IN,IO,KS,MA,ME,MI,MN,MO,MT,ND,NJ,NM,NV,NY,OH,OR,PA,SD,TN,TX,UT,VT,WI,WY. Mex: COAH,NL,SLP.
<i>Euglesa equilateralis</i> (Prime, 1852)	Round Peaclam		Can: NB,ON,QC. US: MA,ME,NJ,NY,PA,RI,VA.
<i>Euglesa fallax</i> (Sterki, 1896)	River Peaclam		Can: AB,MB,NT,ON,SK,QC. US: AL,IL,IO,ME,MI,MN,NJ,NY,OH,WA.
<i>Euglesa ferruginea</i> (Prime, 1852)	Rusty Peaclam		Can: AB,BC,MB,NB,NT,ON,QC,SK,YT. US: CA,IL,IN,MA,ME,MI,MT,NJ,NY,OH,OR,UT,WA,WY.
<i>Euglesa henslowana</i> (Sheppard, 1825)*	Henslow Peaclam		Can: ON. US: MI,NY.
<i>Euglesa lilljeborgii</i> (Clessin in Esmark & Hoyer, 1886)	Lilljeborg Peaclam		Can: AB,BC,MB,NT,ON,QC,SK,YT. US: CA,CO,IN,MA,MI,MT,NY,UT,VT,WA,WI.
<i>Euglesa milium</i> (Held, 1836)	Quadrangular Pillclam		Can: BC,MB,NF,ON,SK. US: CO,ME,MI,MN,MT,NY,OR,UT.
<i>Euglesa nitida</i> (Jenyns, 1832)	Shiny Peaclam		Can: AB,BC,MB,NB,NF,NT,ON,PI,QC,SK,YT. US: CA,CO,ID,IL,IN,IO,KS,MA,ME,MI,MN,MT,MA,ND,NJ,NM,NY,NV,OH,PA,RI,TX,UT,VT,VA,WA,WI. Mex: COAH.

<i>Euglesa obtusalis</i> (Lamarck, 1818)		Almeja obtusa	Mex: ?
<i>Euglesa rotundata</i> (Prime, 1852)	Fat Peaclam		Can: AB,MB,NF,NT,ON,QC,SK. US: FL,IL,MA,ME,MI,MT,NJ,NY,UT,VR,WA.
<i>Euglesa subtruncata</i> (Malm, 1855)	Shortended Peaclam		Can: AB,BC,MB,NT,ON,QC,SK, YT. US: CA,MI,MT,NY,ND,SD,WI,WY.
<i>Euglesa supina</i> Schmidt, 1850*	Humpbacked Peaclam		Can: ON US: MA,MI,NY,OR.
<i>Euglesa ultramontana</i> (Prime, 1865)	Montane Peaclam		US: CA,OR.
<i>Euglesa variabilis</i> (Prime, 1852)	Triangular Peaclam		Can: AB,BC,MB,NB,NF,NS,NT,ON,PI,QC,SK. US: AL,CA,CO,CN,ID,IL,IN,IO,KS,MA,ME,MI,MN,MT,NJ,NY,OH,OR,PA,RI,SD,TN,UT,VT,WA,VA,WY?
<i>Euglesa ventricosa</i> (Prime, 1851)	Globular Peaclam		Can: AB,MB,NF,NT,ON,QC,SK. US: CA,CO,IL,MA,ME,MI,MN,MT,NJ,NY,ND,OH,SD,UT,VT,WA,WI.
<i>Euglesa walkeri</i> (Sterki, 1895)	Walker Peaclam		Can: AB,MB,NT,ON,QC,SK. US: ALAS,IL,IO,MA,ME,MI,MN,MO,MT,NY,OH,PA,RI,SD,VA.
<i>Eupera cubensis</i> (Prime, 1865)**	Mottled Fingernailclam		US: AL,FL,GA,IL,LA,ME,MI,MS,NC,SC, TX. Mex: COAH.
<i>Eupera insignis</i> Pilsbry, 1926		Almeja distinguida	Mex: VER.
<i>Eupera singleyi</i> (Pilsbry, 1889)		Almeja de singley	Mex: YUC.
<i>Odhneripisidium moitessierianum</i> (Paladilhe, 1866)*1,2	Perforated Peaclam		US: MI,MN,OH.
<i>Pisidium amnicum</i> (Müller, 1774)*	Greater European Peaclam		Can: ON. US: MI,NJ,NY,OH,PA.
<i>Pisidium cruciatum</i> Sterki, 1895	Ornamented Peaclam		Can: ON. US: AL,AR?,IL,MI,MS,MT,OH,WI.
<i>Pisidium dubium</i> (Say, 1817)	Greater Eastern Peaclam		Can: ON,QC,YT? US: AL,ALAS?FL,GA,MA,MI,MN,NJ,NY,PA,SC,TN,VT,VA.
<i>Pisidium idahoense</i> Roper, 1891	Giant Northern Peaclam		Can: AB,MB,NB,NT,ON,PI,SK, YT. US: CA,ID,IN,MI,MT,WA,WI.

<i>Pisidium punctatum</i> Sterki, 1896	Perforated Peaclam		Can: BC,MB,ON,SK. US: AL,IL,IN,MA,MI,OH,VA,WI.
<i>Pisidium punctiferum</i> (Guppy, 1867)	Striate Peaclam		US: AL,AZ,FL,MS,NM,TX. Mex: SIN.
<i>Pisidium sanguinichristi</i> Taylor, 1987 ³	Sangre de Cristo Peaclam		US: NM.
<i>Pisidium vegae</i> Pilsbry, 1926		Almeja de vega	Mex: QR.
<i>Sphaerium corneum</i> (Linnaeus, 1758)* ^{4,5}	European Fingernailclam		Can: ON. US: FL,IL,GA,MI,NY,TN,VT.
<i>Sphaerium fabale</i> (Prime, 1852)	River Fingernailclam		Can: ON. US: AL,GA,ID,MD,MI,MT,NJ,NY,OH,PA,TN,VA,WA,WV.
<i>Sphaerium lacustre</i> (Müller, 1774)	Lake Fingernailclam		Can: AB,BC,MB,NF,NT,ON,PI,QC,SK,YT. US: AL,CA,CO,DE,FL,GA,HI,ID,IL,IN,IO,KS,LA,MA,ME,MI,MN,MTT,NE,NH,NJ,NY,OH,OR,PA,RI,SD,TN,VA,WA,WI,WY.
<i>Sphaerium martensi</i> Pilsbry, 1899		Almeja de martens	Mex: MICH.
<i>Sphaerium mexicanum</i> Dall, 1905		Almeja mexicana	Mex: SLP.
<i>Sphaerium novoleonis</i> Pilsbry, 1904		Almeja de Nuevo León	Mex: NL.
<i>Sphaerium nitidum</i> Clessin in Westerlund, 1876	Arctic Fingernailclam		Can: AB,BC,MB,NL,NT,ON,QC,SK,YT. US: AK,ID,IO,MA,ME,MI,MN,MT,NY,OR,UT,WA.
<i>Sphaerium occidentale</i> (Lewis, 1856)	Herrington Fingernailclam		Can: MB,0NT,QC. US: AL,CA,CO,CT,DE,GA,ID,IL,IN,IO,KS,MA,ME,MI,MN,MT,NJ,NY,OH,OR,PA,SC,TN,UT,VT,VA,WA,WI.
<i>Sphaerium partumeium</i> (Say, 1822)	Swamp Fingernailclam		Can: MB,NB,NF,ON,QC,SK. US: AL,CA,CN,DE,FL,GA,IL,IN,IO,KS,LA,MA,Me,MI,MN,MO,MS,MT,NE,NEV,NJ,NY,NC,ND,OH,OK,PA,RI,SC,TN,TX,VT,VA,WI. Mex: TAB.
<i>Sphaerium patella</i> (Gould, 1850)	Rocky Mountain Fingernailclam		US: CA,CO,GA,ID.

<i>Sphaerium queretaronis</i> Pilsbry, 1926		Almeja de Querétaro	Mex: QRO, VER.
<i>Sphaerium rhomboideum</i> (Say, 1822)	Rhomboid Fingernailclam		Can: BC,MB,NB,NFL,ON. US: CT,ID,NY,OH,PA,RI,VT,WI.
<i>Sphaerium securis</i> (Prime, 1852)	Pond Fingernailclam		Can: AL,BC,MB,NB,NF,NS,ON,QC,SK. US: AL,AR,CT,FL,IL,IN,IO,KS,LA,MA,ME,MD,MI,MN,MS,MT,NE,NJ,NY,NC,ND,OH,PA,RI,SC,TN,TX,VA,WA,WI.
<i>Sphaerium simile</i> (Say, 1817)	Grooved Fingernailclam		Can: AL,MB,ON,QC,SK. US: AL,DE,ID,IL,IN,IO,KS,MA,ME,MI,MN,MT,NJ,NY,OH,PA,SD,VA,WY.
<i>Sphaerium striatinum</i> (Lamarck, 1818)	Striated Fingernailclam		Can: AB,BC,MB,NB,NT,ON,QC,SK,YT. US: AL,AZ,AR,CA,CO,DE,FL,GA,ID,IL,IN,IO,KS,KY,LA,MA,ME,MD,MI,MN,MS,MO,MT,NE,NV,NJ,NM,NY,NC,ND,OH,OR,PA,RI,SD,TN,TX,UT,VA,WA,WI,WY. Mex: JAL,QRO,VER.
<i>Sphaerium subtransversum</i> Prime, 1860		Almeja subtransversa	Mex: EDOMEX,MICH,TAB,YUC.
<i>Sphaerium transversum</i> (Say, 1829)	Long Fingernailclam		Can: AL,BC,MB,NT,ON,QC,SK. US: AL,AR,CO,FL,GA,ID,IL,IN,IO,KS,KY,LA,ME,MI,MN,MO,MT,NE,NJ,NY,NC,ND,OH,OK,PA,TN,TX,WV,WI. Mex: QRO,TLAX.
<i>Sphaerium triangulare</i> (Say, 1829)		Almeja triangular	Mex: EDOMEX,GTO,JAL,MICH.

*Introduced; ** native and introduced; ***changed to Adams Peaclam to match species name; ¹Great Lakes Aquatic Nonindigenous species (2024a); ²USAGS-NAS (2004a); ³Taylor (1987); ⁴Great Lakes Aquatic Nonindigenous species (2024b); ⁵USGS-NAS (2024b).