KEEP INVASIVE MOLLUSKS OUT OF LAKE TAHOE: CLEAN, DRAIN, AND DRY YOUR BOAT EVERY TIME

Invasive Aquatic Mollusks:

**Asian Clam (Corbicula fluminea)**

- **Size:** 1 to 1 1/2 inches (25 to 40 mm)
- **Food:** These clams filter particles suspended in water, including bacteria, algae, and detritus.
- **Preferred Habitat:** silt, sand, and gravel in near-shore areas from approximately 10 to 30 feet (4 to 10 m)
- **Primary Means of Introduction:** intentional release of aquarium clams, angler bait dumping, microscopic larvae transferred via un-drained boats

**Already present in South Lake Tahoe**

Photo Credit: U.S. Geological Survey, Florida Integrated Science Center

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**Zebra Mussels (Dreissena polymorpha) and Quagga Mussels (Dreissena bugensis)**

- **Size:** 1/4 to 1 1/2 inches (5 to 40 mm)
- **Food:** These mussels filter particles suspended in water, including bacteria, algae, and detritus.
- **Preferred Habitat:** hard substrate from 10 to 200 feet (4 to 60 m)
- **Primary Means of Introduction:** Adults attach to watercraft and fishing gear, and microscopic larvae are transferred in water of un-drained boats.

Currently **not present in Lake Tahoe**; however, quagga mussels were recently discovered in Lake Mead. Please **clean, drain, and dry** your fishing gear and watercraft. **Both mussels have devastating impacts on aquatic ecosystems.**

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**New Zealand Mudsnails (Potamopyrgus antipodarum)**

- **Size:** Small! 1/10 to 1/5 inch (2 to 6 mm)
- **Food:** periphyton (algae)
- **Preferred Habitat:** silt, sand, cobble, and aquatic vegetation at depths from 13 to 130 feet (4 to 40 m)
- **Primary Means of Introduction:** attached to watercraft and fishing gear, larvae in water of un-drained watercraft

Currently **not present in Lake Tahoe**, but have invaded many areas of the West. Please help to keep these invaders out of Lake Tahoe! More information on how to prevent the spread of New Zealand Mudsnails is available from the California Department of Fish and Game: [http://www.dfg.ca.gov/invasives/mudsnail/](http://www.dfg.ca.gov/invasives/mudsnail/)

Photo Credits: R. Draheim, Portland State University Center for Lakes and Reservoirs

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Invasive species cause serious economic and ecological damage to aquatic ecosystems.

The Lake Tahoe Aquatic Invasive Species Working Group (LTAISWG) is currently working to prevent invasions in Lake Tahoe. The public is invited to attend meetings and encouraged to volunteer!

For more information, please go to [http://www.tahoercd.org/AquaticInvasives.php](http://www.tahoercd.org/AquaticInvasives.php), or contact the Tahoe Resource Conservation District (TRCD) at 530-543-1501, ext. 113
**BUT DON’T CONFUSE THEM WITH NATIVE CLAMS, MUSSELS, AND SNAILS!**

Lake Tahoe’s Native Mollusks:

| **Fingernail/Pea Clam (Pisidium)** | **Size:** Small! 1/25 to 1/5 inch (1 to 5 mm)  
**Food:** These clams filter bacteria, algae, and detritus suspended in water.  
**Preferred Habitat:** silt, sand, and clay at a wide range of depths, ranging from 6 to 600 feet (2 to 180 m) |
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| **Dextral Pond Snail (Lymnaea or Fossaria)** | **Size:** 1/10 to 1/2 inch (3 to 13 mm)  
**Food:** periphyton (algae)  
**Preferred Habitat:** cobble or aquatic vegetation, from 6 to 130 feet (2 to 40 m)  
*Note that the snail is right-handed (dextral). When you hold the snail with the opening (aperture) facing you, the opening is on the right-hand side.* |
| **Sinistral Pond Snail (Physella)** | **Size:** 1/5 to 1/2 inch (5 to 13 mm)  
**Food:** detritus and associated bacteria at the bottom of the lake  
**Preferred Habitat:** cobble or aquatic vegetation in shallow water  
*Note that the snail is left-handed (sinistral). When you hold the snail with the opening (aperture) facing you, the opening is on the left-hand side.* |
| **Ramshorn Snail (Planorbidae)** | **Size:** Approximately 1/5 to 1/2 inch (5 to 15 mm)  
**Food:** detritus and associated bacteria at the bottom of the lake  
**Preferred Habitat:** silt, cobble, or aquatic vegetation in shallow to deep water, 6 to 400 feet (2 to 120 m) |
| **Freshwater Limpet (Ferrisia fragilis)** | **Size:** 1/25 to 1/5 inch (1 to 4 mm)  
**Food:** periphyton (algae)  
**Preferred Habitat:** cobble or aquatic vegetation in relatively shallow water |
| **Western Pearlshell Mussel (Margaritifera falcata)** | **Size:** 2 to 3 1/2 inches (50 to 85 mm)  
**Food:** Larvae are parasitic on fish. Adults filter algae, bacteria, and detritus suspended in water.  
**Preferred Habitat:** sand, gravel, cobble, and boulder habitat in streams and rivers (ex. Upper Truckee River) |

Photo credits:  
- National Oceanic and Atmospheric Administration (NOAA)/Great Lakes Environmental Research Laboratory (GLERL)  
- Freshwater Gastropods of North America (FGNA) Project  
- International Wildlife Museum  
- Martin Kohl  
- D.L. Gustafson