

**Three Forks Springsnail**  
*Pyrgulopsis trivialis*

**STATUS:** Endangered (77 FR 23060; April 17, 2012) with critical habitat.

**SPECIES DESCRIPTION:** Aquatic springsnail of the family Hydrobiidae (Mollusca; Gastropoda). Shell ovate- to narrowly-conic; height 1.5 to 4.5 millimeters (.05-.18 inches); whorls 3.4 to 5.0.

**HABITAT:** Rheocrene springs (emerging from the ground as a flowing stream), seeps, spring pools, outflows, and diverse flowing waters at elevations around 2,400 meters (8,000 feet). Firm substrate such as cobble, gravel, woody debris, and aquatic vegetation are essential for egg-laying and grazing. Aquatic vegetation includes watercress (*Nasturtium* sp.), *Ranunculus*, and algae. Designated critical habitat includes 17.2 acres (6.9 hectares) in Apache County, Arizona.

**RANGE:** Locally endemic to the Three Forks, Boneyard Bog, and Boneyard Creek spring complexes along Boneyard Creek and the confluence with the North Fork East Fork Black River in Apache County of east-central Arizona. The species is extirpated from Three Forks Springs.

**REASONS FOR DECLINE/VULNERABILITY:** Destruction, modification, or curtailment of its habitat or range from wildfire, exposure to fire retardant chemicals, and excessive elk wallowing. Predation by invasive nonnative crayfish. Inability of regulatory mechanisms to prevent habitat modification. Restricted range which increases susceptibility to existing threats.

**LAND MANAGEMENT/OWNERSHIP:** Apache-Sitgreaves National Forests

**NOTES:** A permit from the Apache-Sitgreaves National Forests is required to access the Three Forks Springs area. The Fish and Wildlife Service, Arizona Game and Fish Department, Forest Service, and the Phoenix Zoo continue to coordinate regarding the development and implementation of conservation actions, including salvage and captive rearing.

Updated: April 2012