

Central Stoneroller - *Campostoma anomalum*

Abundance: Common

Status: NSS4 (Cb)

NatureServe: G5 S4

Population Status: Stable. Appear to be stable in numbers and distribution.

Limiting Factor: Habitat: severe due to increasing turbidity limiting preferred habitat.

Comment:

Introduction

Central stoneroller distribution extends from east of the Rocky Mountains to the Atlantic Coast and from Ontario to Mexico. In Wyoming, they are found in the Niobrara River, North Platte River, and South Platte River drainages.

Central stonerollers are benthic omnivores, predominantly consuming detritus and algal matter. Spawning usually occurs from April to early June, in temperatures ranging from 58 °F to 75 °F (Baxter and Stone 1995). Males create an indentation in gravel substrates, where the female can deposit eggs. Once the eggs are fertilized, they are covered with gravel. Adults generally reach maturity after their second or third summer (Lennon and Parker 1960).

Habitat

Central stonerollers prefer cool, clear streams with enough flows to keep the substrate free of silt. In Wyoming they are found in a variety of habitats, but are typically found in fine gravel or larger substrates with aquatic vegetation present (Moan et al. 2010).

Problems

- h Altered flow regimes, habitat fragmentation, and impacts to aquatic and riparian habitat associated with agricultural practices.
- h Increased siltation and aquatic vegetation.
- h Found at fewer sites and in less numbers than previously found in Lodgepole Creek and the Niobrara River drainages.

Conservation Actions

- h Determine limiting factors for Lodgepole Creek fish populations.

Monitoring/Research

Monitor central stoneroller and other species in Lodgepole Creek.
Sample Crow Creek, Laramie County.

Recent Developments

Detailed fish and habitat surveys were conducted in tributaries to the North and South Platte rivers between 2005 and 2009 to establish a baseline for future trend analysis in the North Platte drainage (Gerrity 2009, Moan et al. 2010). In 2005 and 2007, the Casper Region Fish Management crew conducted non-game fish surveys in the lower sections of the mainstem North Platte River (WGFD 2006, WGFD 2008).

References

Gerrity, P.. 2009. Survey of northern tributary streams to the North Platte River in the lower North Platte River (1LP) Basin.. Wyoming Game and Fish Department Administrative Report, Cheyenne..

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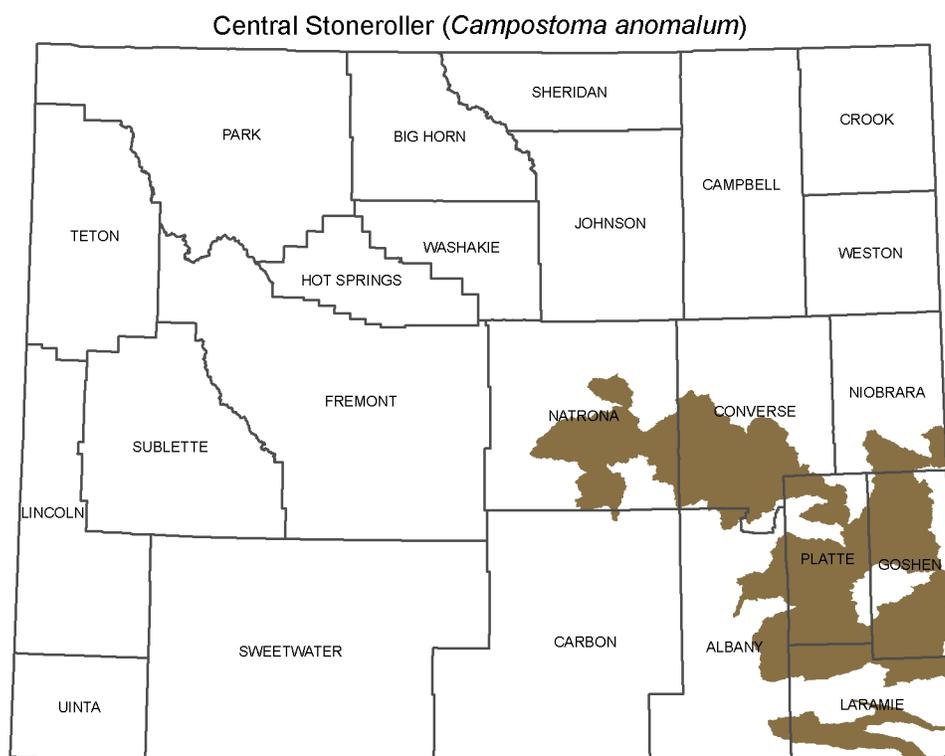
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SOURCE: Digital maps of ranges for Wyoming Species of Greatest Conservation Need: April 2010. Wyoming Game and Fish Department. Note that brown indicates the current known range of the species.