

## PETITION FOR SPECIES REVIEW 2013

Species Common Name: **Silverband shiner**

Species Scientific Name: **Notropis shumardi**

Currently listed as: **threatened**

Petitioned to (please circle or check):

☐ Endangered ☐ Threatened

☒ Species-in-need-of-conservation (SINC) ☐ Unlisted Status

1) a. Provide a map of the species' current distribution in Kansas:

b. Is the Kansas population isolated from the core population in other states?

Yes ☐ No ☐ Don't know ☒

c. Is the Kansas population genetically distinct from the core population in other states?

Yes ☐ No ☐ Don't know ☒

Cite references: <http://collections.nhm.ku.edu/FishWeb/index.jsp>; **Cross & Collins. 1995. Fishes in Kansas**

2) How and to what magnitude has the species' distribution changed within Kansas during the past 35 years?

**Since listed as threatened in 1974, no recent collections of this species have been reported. As indicated by the attached distribution map, it was last collected in August of 1954. Surveys performed from 2006 through 2009 assessing distribution and abundance of fishes in the Kansas River did not collect any records of this species. It is considered a peripheral species because of limited populations within Kansas.**

Cite references: **Distribution and Abundance of Fishes in the Kansas River – State Wildlife Grant T-15-R-1; Cross & Collins. 1995. Fishes in Kansas.**

3) Describe the species' population (not distribution) trend within Kansas during the past 35 years. **Since no records of this species have been collected since 1954, this could indicate no reproduction occurring with this species**

Cite references: **see reference referring to species distribution in previous question**

4) a. What is the Global Rank of this species from NatureServe?

**G5 - secure**

b. What proportion of the species' global population is currently found within Kansas?

**Unknown, most likely low to non-existent**

Cite references: **Fishes in Kansas; Distribution and Abundance of Fishes in the Kansas River**

5) What is the species' current residency status within Kansas (vagrant, migrant, year-round)?  
**vagrant**

6) Describe the species' current breeding status within Kansas, including changes or trends in fecundity during the past 35 years. **Low to non-existent; Other information indicates this species exhibits high resilience in its core ranges and will double its population within a 15 month time frame**

Cite references: <http://www.fishbase.org/summary/2899>

7) Describe the species' habitat requirements: **moderately deep, flowing water along sand or gravel bars; flowing pools and runs of large, often turbid, rivers**

Cite references: **Cross & Collins. 1995. Fishes in Kansas.**  
<http://www.fishbase.org/summary/2899>

8) Discuss the species' degree of specialization with regard to habitat, food, or other life history factors.

**Considered benthopelagic, this species would most likely exhibit characteristics of other pelagic species in that it is dependent upon properly functioning ecological flow regimes for its existence; diet is unknown for this species.**

9) Discuss the species' sensitivity to environmental contaminants and disease, if any, including known potential problems:

**Unknown, unless it is comparable to other Notropis species that exhibit similar characteristics.**

10) To what degree is this species currently vulnerable to consumptive and/or commercial use in Kansas, and what relationship does that use have on its total population?

**Not applicable due to limited collection of species**

Cite references: \_\_\_\_\_

11) What are the most imminent threats to the species in Kansas? Please list in priority order with the highest-ranked threat on top.

**Extensive modification of the Missouri River for navigation has eliminated sandbar habitats which may explain the decline of this species in the lower Kansas and Missouri River in the state.**

Cite references: **Cross & Collins. 1995. Fishes in Kansas**

12) a. What is the recovery potential of this species?

Excellent \_\_\_\_\_ Good \_\_\_\_\_ Fair \_\_\_\_\_ Poor \_\_\_\_\_ **Probably not possible**

Explain: **Given the current hydrological conditions of the Missouri River due to modifications and elimination of the species habitat within Kansas, it would be extremely difficult to restore habitat necessary for this species and others with similar habitat requirements.**

b. List any conservation actions are currently addressing the needs of this species.

**There are various conservation initiatives and programs that exist and operate with respect to the Missouri River. Whether such actions are or can be specific enough to address the needs of this species are unknown and perhaps impractical at this time.**

c. List any pending conservation actions that will probably improve the status of this species.

**Unknown what is pending at this time; any action that seeks to restore sand/gravel bar habitat in this stretch of the Missouri and Kansas Rivers would be a logical direction.**

13) Summarize your reasons for requesting a review of this species:

**It is not only necessary for our agency to assess and evaluate what our top priority species of concern are, but equally, to approach recovery and management efforts from a pragmatic point of view. Achieving maximum effectiveness with limited resources is critical given current socioeconomic conditions. It is only logical to “down-list” this species to SINC status, but not disregard it completely. The degradation of its habitat represents a serious problem that needs to be addressed for the purpose of designing and implementing a holistic approach to large riverine ecosystem management for Kansas.**

14) Describe your expertise/experience with the species you are petitioning.

Feel free to attach any information you may have pertaining to the status or biology of this species that will help in its review.

**The KDWPT Stream Survey & Assessment program has developed a database recording occurrence data about the fish community in Kansas lotic systems since 1995. This information has been used in determining the status of other species.**

Note on citations: It is not necessary to provide extensive literature citations, however, any pertinent data is helpful in determining species status.

Petitioner(s):

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Send fully completed petition to:

Office of the Secretary  
Kansas Department of Wildlife & Parks  
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Topeka, KS 66612-1327