

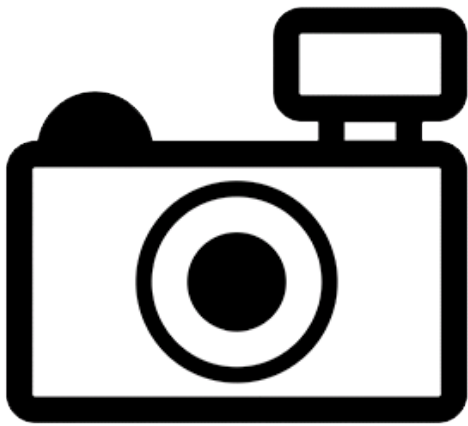
***Cyprinus dai* (a carp, no common name)**

Ecological Risk Screening Summary

U.S. Fish & Wildlife Service, October 2012

Revised, December 2018

Web Version, 8/6/2019



No Photo Available

1 Native Range and Status in the United States

Native Range

From Nguyen et al. (2011):

“The species is known from Black River (Sông Đà) drainage in northern Viet Nam (Lai Chau and Hoa Binh provinces) only.”

Status in the United States

No records of *Cyprinus dai* in the wild or in trade in the United States were found.

Means of Introductions in the United States

No records of *Cyprinus dai* in the wild in the United States were found.

Remarks

Information searches were conducted using the valid name of *Cyprinus dai* and the synonym *Laichowcypris dai* (Fricke et al. 2018).

A previous version of this ERSS was published in 2012.

2 Biology and Ecology

Taxonomic Hierarchy and Taxonomic Standing

From Fricke et al. (2018):

“**Current status:** Valid as *Cyprinus dai* (Nguyen & Doan 1969).”

From ITIS (2018):

“Kingdom Animalia
Subkingdom Bilateria
Infrakingdom Deuterostomia
Phylum Chordata
Subphylum Vertebrata
Infraphylum Gnathostomata
Superclass Actinopterygii
Class Teleostei
Superorder Ostariophysi
Order Cypriniformes
Superfamily Cyprinoidea
Family Cyprinidae
Genus *Cyprinus*
Species *Cyprinus dai*”

Size, Weight, and Age Range

No information on the size, weight, or age range of *Cyprinus dai* was found.

Environment

From Froese and Pauly (2018):

“Freshwater; benthopelagic”

Climate/Range

From Froese and Pauly (2018):

“Tropical”

Distribution Outside the United States

Native

From Nguyen et al. (2011):

“The species is known from Black River (Sông Đà) drainage in northern Viet Nam (Lai Chau and Hoa Binh provinces) only.”

Introduced

No records of introductions of *Cyprinus dai* were found.

Means of Introduction Outside the United States

No records of introductions of *Cyprinus dai* were found.

Short Description

From Ahnelt et al. (2015):

“A regular symmetric appearance of a fourth [pharyngeal] tooth row is documented for the African cyprinid *Rastrineobola argentea* (Pellegrin, 1904) (Ahnelt et al., 2006) and the Asian *Laichowcypris dai* Nguyen and Doan, 1969 (Nguyen and Doan 1969 pers. comm. Ngo Sy Van RIA1).

Biology

From Nguyen et al. (2011):

“This species lives in the middle and lower waters of streams with rocky substrate. Their food includes larvae of mosquito, larvae of insects, decapoda, mollusca.”

Human Uses

From Nguyen et al. (2011):

“Fishes from this group are consumed locally.”

Diseases

No information on diseases of *Cyprinus dai* was found. **No records of OIE-reportable diseases (OIE 2019) were found for *Cyprinus dai*.**

Threat to Humans

From Froese and Pauly (2018):

“Harmless”

3 Impacts of Introductions

No records of introductions of *Cyprinus dai* were found; therefore, there is no information on impact of introduction.

4 Global Distribution

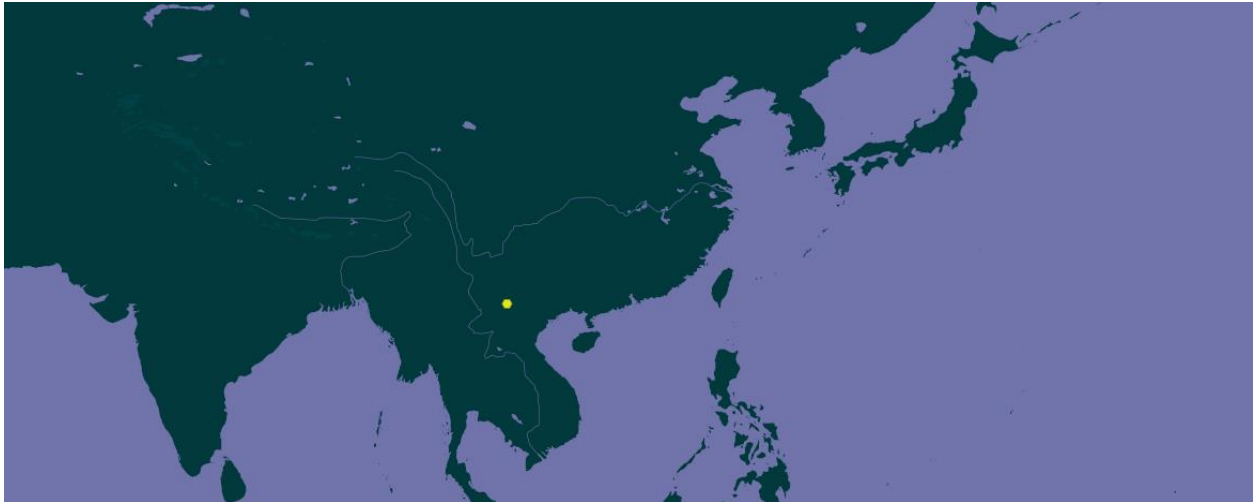


Figure 1. Known global distribution of *Cyprinus dai*. Location is in northern Vietnam. Map from GBIF Secretariat (2018).

5 Distribution Within the United States

No records of *Cyprinus dai* in the wild in the United States were found.

6 Climate Matching

Summary of Climate Matching Analysis

The climate match for *Cyprinus dai* was low across the contiguous United States. There were no areas of high or medium match. The Climate 6 score (Sanders et al. 2018; 16 climate variables; Euclidean distance) for the contiguous United States was 0.000, low (scores between 0.000 and 0.005, inclusive, are classified as low). All States had low individual Climate 6 scores.

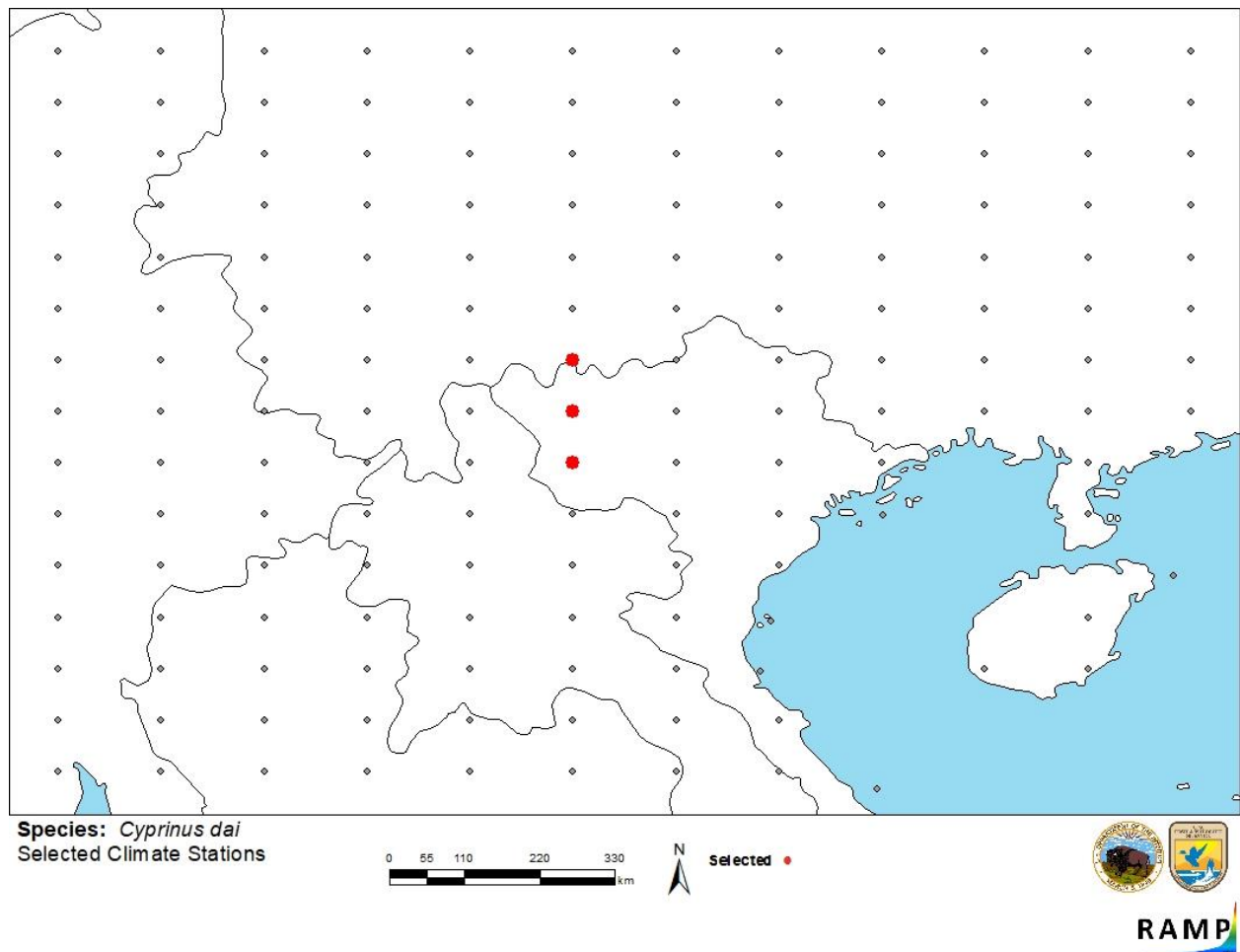


Figure 2. RAMP (Sanders et al. 2018) source map showing weather stations in southeast Asia selected as source locations (red; China, Vietnam) and non-source locations (gray) for *Cyprinus dai* climate matching. Source locations from GBIF Secretariat (2018). Selected source locations are within 100 km of one or more species occurrences, and do not necessarily represent the locations of occurrences themselves.

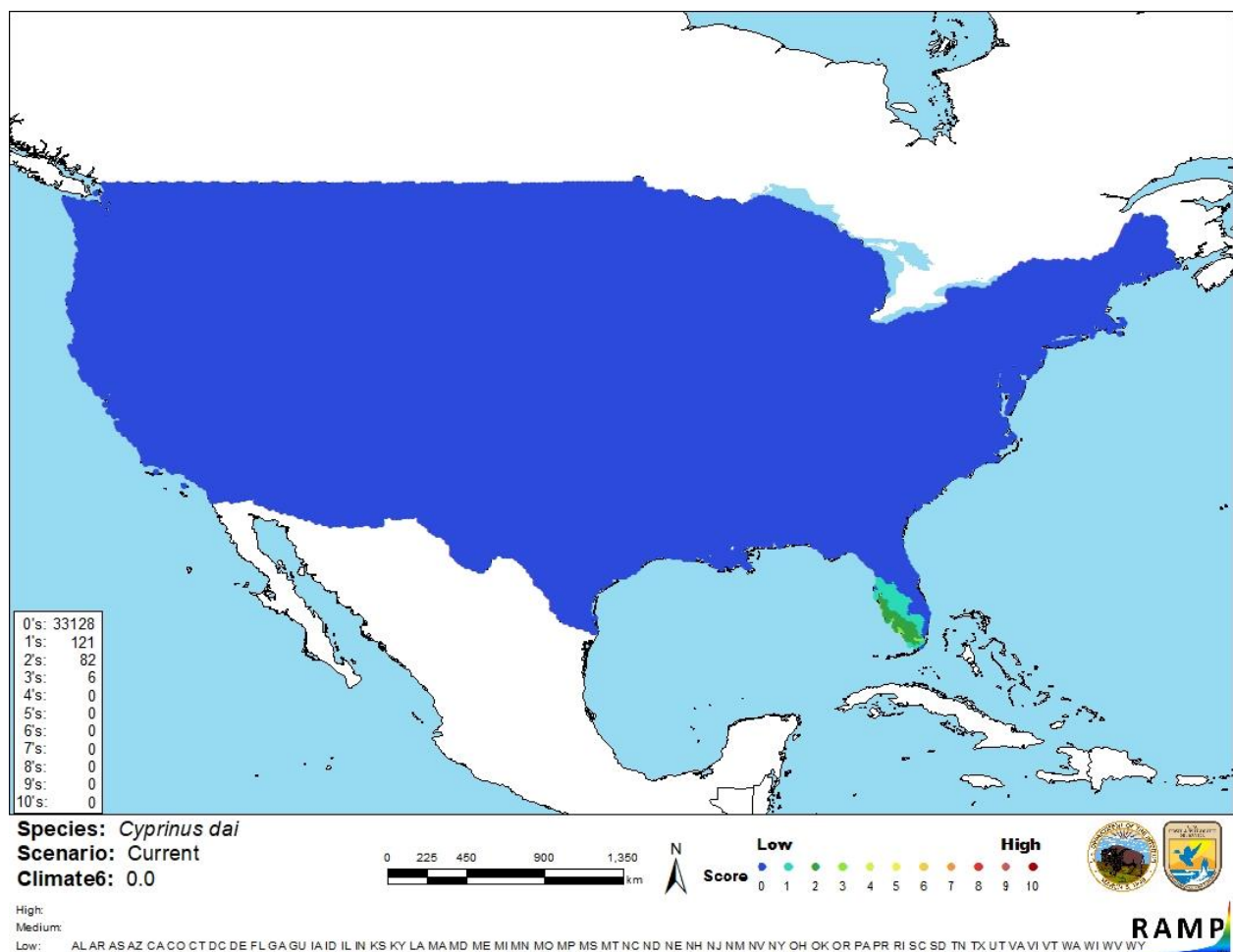


Figure 3. Map of RAMP (Sanders et al. 2018) climate matches for *Cyprinus dai* in the contiguous United States based on source locations reported by GBIF Secretariat (2018). Counts of climate match scores are tabulated on the left. 0 = Lowest match, 10 = Highest match.

The High, Medium, and Low Climate match Categories are based on the following table:

Climate 6: Proportion of (Sum of Climate Scores 6-10) / (Sum of total Climate Scores)	Climate Match Category
$0.000 \leq X \leq 0.005$	Low
$0.005 < X < 0.103$	Medium
≥ 0.103	High

7 Certainty of Assessment

The certainty of assessment is low. Peer-reviewed literature or information in general on the biology, ecology, and distribution associated with *Cyprinus dai* as well as information on its potential invasiveness is very limited.

8 Risk Assessment

Summary of Risk to the Contiguous United States

Cyprinus dai is a species of cyprinid native to streams in northern Vietnam. It may be used as a food fish by locals. The history of invasiveness is uncertain. This species is not found in trade. There were no records of introduction found. The climate match was low. There were no areas of high or medium match. The certainty of assessment is low. The overall risk assessment category for *Cyprinus dai* is uncertain.

Assessment Elements

- **History of Invasiveness (Sec. 3): Uncertain**
- **Climate Match (Sec. 6): Low**
- **Certainty of Assessment (Sec. 7): Low**
- **Remarks/Important additional information:** No additional information.
- **Overall Risk Assessment Category: Uncertain**

9 References

Note: The following references were accessed for this ERSS. References cited within quoted text but not accessed are included below in Section 10.

- Ahnelt, H., A. N. Herdina, and B. D. Metscher. 2015. Unusual pharyngeal dentition in the African Chedrin fishes (Teleostei: Cyprinidae): Significance for phylogeny and character evolution. *Zoologischer Anzeiger* 255:85–102.
- Fricke, R., W. N. Eschmeyer, and R. van der Laan, editors. 2018. Catalog of fishes: genera, species, references. Available: <http://researcharchive.calacademy.org/research/ichthyology/catalog/fishcatmain.asp>. (November 2018).
- Froese, R. and D. Pauly, editors. 2018. *Cyprinus dai* (Nguyen and Doan, 1969). FishBase. Available: <http://www.fishbase.org/summary/Cyprinus-dai.html>. (November 2018).
- GBIF Secretariat. 2018. GBIF backbone taxonomy: *Cyprinus dai* (Nguyen and Doan, 1969). Global Biodiversity Information Facility, Copenhagen. Available: <https://www.gbif.org/species/2367189>. (November 2018).
- ITIS (Integrated Taxonomic Information System). 2018. *Cyprinus dai* (Nguyen and Doan, 1969). Integrated Taxonomic Information System, Reston, Virginia. Available: https://www.itis.gov/servlet/SingleRpt/SingleRpt?search_topic=TSN&search_value=688952#null. (November 2018).
- Nguyen, T. H. T., N. S. Van, and D. V. Thinh. 2011. *Cyprinus dai*. The IUCN Red List of Threatened Species 2011: e.T166973A6295527. Available: <https://www.iucnredlist.org/species/166973/6295527>. (November 2018).

OIE (World Organisation for Animal Health). 2019. OIE-listed diseases, infections and infestations in force in 2019. Available: <http://www.oie.int/animal-health-in-the-world/oie-listed-diseases-2019/>. (August 2019).

Sanders, S., C. Castiglione, and M. Hoff. 2018. Risk assessment mapping program: RAMP, version 3.1. U.S. Fish and Wildlife Service.

10 References Quoted But Not Accessed

Note: The following references are cited within quoted text within this ERSS, but were not accessed for its preparation. They are included here to provide the reader with more information.

Ahnelt, H., E. Bauer, J. Löffler, and L. Mwebaza-Ndawula. 2006. *Rastrineobola argentea* (Teleostei, Cyprinidae), a small African rasboline with four rows of pharyngeal teeth. *Folia Zoologica* 55:309–314.

Nguyen, V. H., and L. H. Doan. 1969. Some data on composition, origin, and distribution of cyprinid species on northern Vietnam. First Scientific Seminar of Fisheries Division. (In Vietnamese.)