

# Chinese Carp (*Cyprinus acutidorsalis*)

## Ecological Risk Screening Summary

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Photo: Chinese Academy of Fishery Sciences

## 1 Native Range, and Status in the United States

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### Native Range

Asia: China (Froese and Pauly 2011)

### Status in the United States

Not documented as either introduced or established in the United States.

### Means of Introductions in the United States

No introductions documented within the United States.

## 2 Biology and Ecology

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### Taxonomic Hierarchy and Taxonomic Standing

From ITIS (2011):

“Kingdom Animalia  
Phylum Chordata  
Subphylum Vertebrata  
Superclass Osteichthyes  
Class Actinoptergii  
Subclass Neopterygii  
Infraclass Teleostei  
Superorder Ostariophysi  
Order Cypriniformes  
Superfamily Cyprinoidea  
Family Cyprinidae  
Genus *Cyprinus*  
Species *Cyprinus acutidorsalis*”

Taxonomic current standing: valid

### Size, Weight, Age

From Froese and Pauly (2011):

“Max length: 27.0 cm SL male/unsexed; (Luo and Yue 2000); max. published weight: 500 g (Hwang et al.1988)”

### Environment

From Froese and Pauly (2011):

“Freshwater; brackish; benthopelagic”

### Climate/Range

Subtropical (Froese and Pauly 2011)

### Distribution

Asia: China (Froese and Pauly 2011)

### Short description

A species of ray-finned fish in the genus *Cyprinus* that lives in the river mouth of the Qingjiang River near Vietnam (Froese and Pauly 2011).

## Biology

From Froese and Pauly (2011):

“Occurs in river mouth (Hwang et al. 1988).”

## Human uses

From Froese and Pauly (2011): “Fisheries: commercial”

## Diseases

No known diseases are documented.

## Threat to humans

From Froese and Pauly (2011): “Harmless”

## 3 Impacts of Introductions

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No known introductions have been documented for *C. acutidorsalis*.

## 4 Global Distribution

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**Figure 1 (above).** Global distribution of *C. acutidorsalis* based on a single data point from GBIF (2011).

## 5 Distribution within the United States

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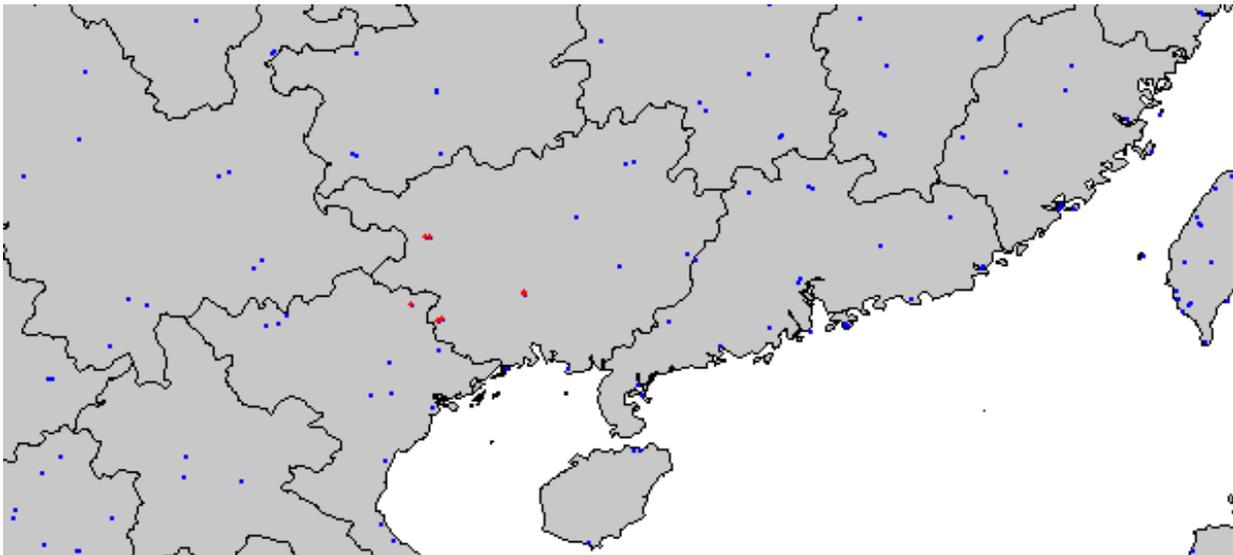
No known locations have been documented in the United States.

## 6 CLIMATCH

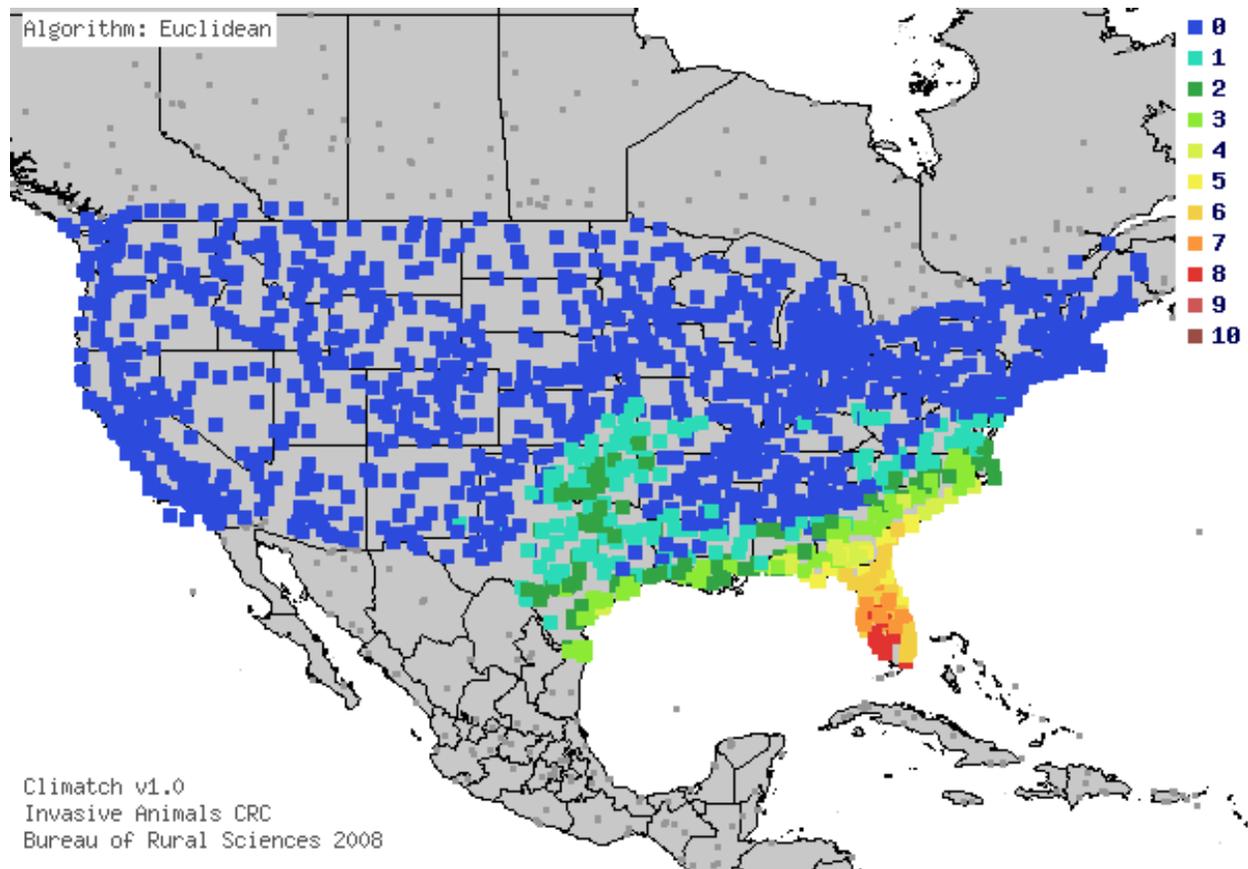
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### Summary of Climate Matching Analysis

The climate match (Australian Bureau of Rural Sciences 2011; 16 climate variables; Euclidean Distance) was low throughout most of the conterminous United States. High matches were only found in southern-most tip of Florida. Climate 6 match indicated that the Continental U.S. has a Medium climate match. The range for a medium climate match is greater than 0.005 and less than 0.103; the climate match for the *C. acutidorsalis* is medium at 0.041.



**Figure 2 (above).** CLIMATCH (Australian Bureau of Rural Sciences 2011) source map showing weather stations selected as source locations (red) and non-source locations (blue) for *C. acutidorsalis* climate matching. Source locations based on a single data point from GBIF (2011).



**Figure 3 (above).** Map of CLIMATCH (Australian Bureau of Rural Sciences 2011) climate matches for *C. acutidorsalis* in the continental United States. Source locations based on a single data point from GBIF (2011). 0= Lowest match, 10=Highest match.

**Table 1 (below).** CLIMATCH (Australian Bureau of Rural Sciences 2011) climate match scores

CLIMATCH Score	0	1	2	3	4	5	6	7	8	9	10
Count	1486	182	125	70	37	19	43	24	15	0	0
Climate 6 Proportion =			0.041 (Medium)								

## 7 Certainty of Assessment

Peer-reviewed literature on the biology, ecology, and distribution associated with *Cyprinus acutidorsalis* as well as information on its potential invasiveness is limited. More information and research on this species will be needed to strengthen the certainty of this assessment. The risk level is therefore uncertain, and the certainty of this risk is low.

## 8 Risk Assessment

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### Summary of Risk to the Continental United States

No known introductions of *C. acutidorsalis* exist, and with the documentation of a small known range and distribution of *C. acutidorsalis*, it is uncertain whether they pose a risk to the United States, which has a medium climate match with the native range of *C. acutidorsalis*.

### Assessment Elements

- **History of Invasiveness (Sec. 3):** Low
- **Climate Match (Sec. 6):** Medium
- **Certainty of Assessment (Sec. 7):** Low
- **Overall Risk Assessment Category:** Uncertain

## 9 References

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

Australian Bureau of Rural Sciences. 2011. CLIMATCH. Available:  
<http://adl.brs.gov.au:8080/Climatch> (Accessed: August 2011).

Froese, R. and D. Pauly (Eds). 2011. *Cyprinus acutidorsalis* data. FishBase:  
<http://www.fishbase.org/>. Available:  
<http://www.fishbase.org/Summary/speciesSummary.php?ID=14470&genusname=Cyprinus&speciesname=acutidorsalis&AT=cyprinus+acutidorsalis&lang=English> (Accessed August 2011).

GBIF. 2011. *Cyprinus acutidorsalis*. Global Biodiversity Information Facility. Available:  
<http://data.gbif.org/species/2367200/> (Accessed August 2011).

ITIS. 2011. *Cyprinus acutidorsalis*. Integrated Taxonomic Information System. Available:  
[http://www.itis.gov/servlet/SingleRpt/SingleRpt?search\\_topic=TSN&search\\_value=688947](http://www.itis.gov/servlet/SingleRpt/SingleRpt?search_topic=TSN&search_value=688947) (Accessed August 2011).

## 10 References Quoted But Not Accessed

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**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.**

Hwang, H.C., I.Y. Chen, and P.C. Yueh. 1988. The freshwater fishes of China in colored illustrations. Shanghai Sciences and Technology Press, Shanghai, China. 2:201

Luo, Y. and P. Yue. 2000. Cyprinidae: Cyprininae. p. 391-433. In P. Yue et al. (Eds). Fauna Sinica. Osteichthyes. Cypriniformes III. Science Press. Beijing. 1-661.