

# Reba Carp (*Cirrhinus reba*)

## Ecological Risk Screening Summary

Web Version – 10/31/2012



Photo: BdFISH Bangla (bn.bdfish.org).

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

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#### Native Range

From Froese and Pauly (2011):

“Asia: Pakistan, India, Nepal, Bangladesh, and Myanmar.”

#### Status in the United States

No known nonindigenous occurrences.

#### Means of Introductions in the United States

No known means of introduction.

#### Remarks

Little information is available on this species. Data on how other invasive species are impacting *Cirrhinus reba* is available, but is not the focus of this report.

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## 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 Actinopterygii  
          Subclass Neopterygii  
            Infraclass Teleostei  
              Superorder Ostariophysi  
                Order Cypriniformes  
                  Superfamily Cyprinoidea  
                    Family Cyprinidae  
                      Genus *Cirrhinus*  
                        Species *Cirrhinus reba*

Current Taxonomic Standing: valid

### Size, Weight, Age

From Froese and Pauly (2011):

“Max length: 30.0 cm TL male/unsexed; (Menon 1999)”

### Environment

From Froese and Pauly (2011): “Freshwater; benthopelagic”

### Climate/Range

From Froese and Pauly (2011): “Tropical”

### Distribution

From Froese and Pauly (2011): “Asia: Pakistan, India, Nepal, Bangladesh, and Myanmar.”

### Biology

From Froese and Pauly (2011): “Inhabits large streams and rivers (Menon 1999).”

### Diseases

None reported.

## Threat to humans

From Froese and Pauly (2011): “Harmless”

## 3 Impacts of Introductions

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No information on impacts of introductions is available.

## 4 Global Distribution

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**Figure 1 (above).** Map of the known distribution of *C. reba*. Map from GBIF (2011).

## 5 Distribution within the United States

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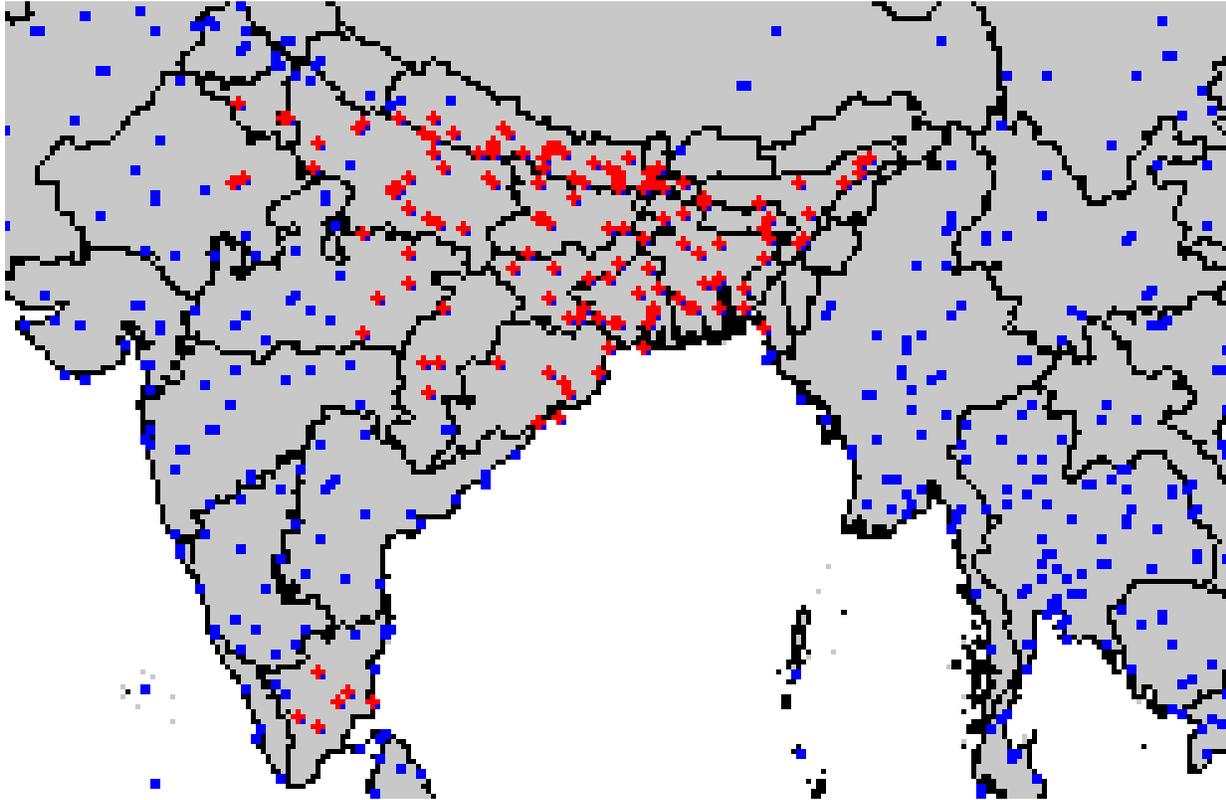
No known distribution within the United States

## 6 CLIMATCH

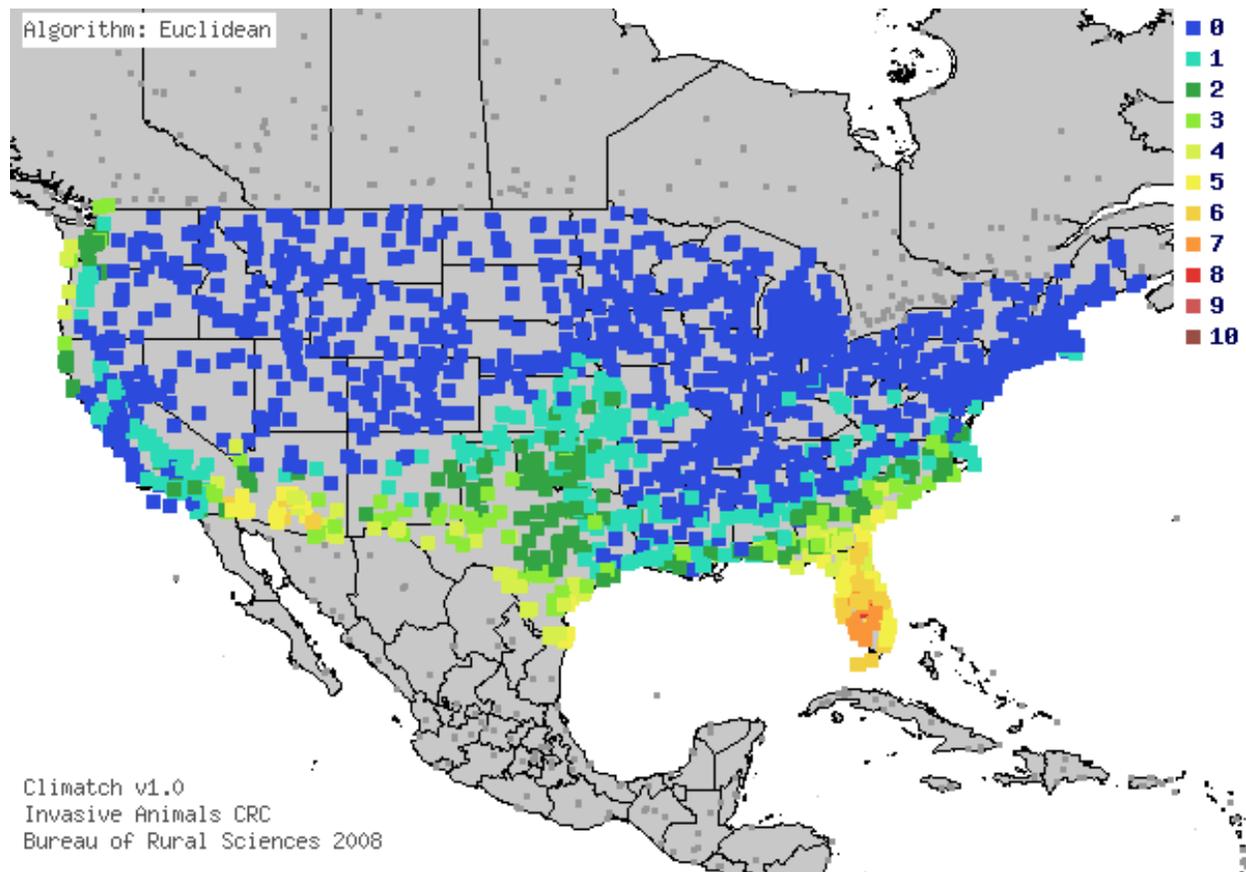
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### Summary of Climate Matching Analysis

The climate match (Australian Bureau of Rural Sciences 2010; 16 climate variables; Euclidean Distance) was high in Florida, medium in the Southern Atlantic coast and Southwest, and low in the rest of the United States. Climate 6 match indicated that the Continental U.S. has a medium climate match. The range for a medium climate match is 0.005 - 0.103 and the climate match of *Cirrhinus reba* is 0.033.



**Figure 2 (above).** CLIMATCH (Australian Bureau of Rural Sciences 2010) source map showing weather stations selected as source locations (red) and non-source locations (blue) for *Cirrhinus reba* climate matching. Source locations from GBIF (2011).



**Figure 3 (above).** Map of CLIMATCH (Australian Bureau of Rural Sciences 2010) climate matches for *Cirrhinus reba* in the continental United States based on source locations reported by GBIF (2011). 0= Lowest match, 10=Highest match.

**Table 1 (below).** CLIMATCH (Australian Bureau of Rural Sciences 2010) climate match scores.

CLIMATCH Score	0	1	2	3	4	5	6	7	8	9	10
Count	1148	321	178	107	81	59	49	14	1	0	0
Climate 6 Proportion = 0.033 (Medium)											

## 7 Certainty of Assessment

Peer-reviewed literature on the biology, ecology, and distribution associated with *Cirrhinus reba* as well as information on its potential invasiveness is extremely 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

*C. reba* is native to South Asia and there are no records of this species being introduced outside of its native range and there is no history of invasiveness. Climate match with the United States is medium with one isolated high location in South Florida. This species is not common to the aquarium or aquaculture industry. The risk is assessed as uncertain.

### 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. *Cirrhinus reba*. FishBase. Available:  
<http://www.fishbase.org/summary/Cirrhinus-reba.html> (Accessed August 2011).

GBIF. 2011. *Cirrhinus reba*. Global Biodiversity Information Facility. Available:  
<http://data.gbif.org/species/5205962/> (Accessed August 2011).

ITIS. 2011. *Cirrhinus reba*. Integrated Taxonomic Information System. Available:  
[http://www.itis.gov/servlet/SingleRpt/SingleRpt?search\\_topic=TSN&search\\_value=688898](http://www.itis.gov/servlet/SingleRpt/SingleRpt?search_topic=TSN&search_value=688898) (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.**

Menon, A.G.K. 1999. Check list - fresh water fishes of India. Rec. Zool. Surv. India, Misc. Publ., Occas. Pap.175: 366