

## ***Aequidens rondoni***

### **Ecological Risk Screening Summary**

U.S. Fish and Wildlife Service, web version – 03/30/2018



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

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### **Native Range**

From Froese and Pauly (2015):

“South America: Amazon River basin, in the upper Tapajós River basin, Brazil.”

### **Status in the United States**

No records of *Aequidens rondoni* introductions in the United States were found.

### **Means of Introductions in the United States**

No records of *Aequidens rondoni* introductions in the United States were found.

## Remarks

No additional remarks.

## 2 Biology and Ecology

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### Taxonomic Hierarchy and Taxonomic Standing

From ITIS (2015):

“Kingdom Animalia  
Subkingdom Bilateria  
Infrakingdom Deuterostomia  
Phylum Chordata  
Subphylum Vertebrata  
Infraphylum Gnathostomata  
Superclass Osteichthyes  
Class Actinopterygii  
Subclass Neopterygii  
Infraclass Teleostei  
Superorder Acanthopterygii  
Order Perciformes  
Suborder Labroidei  
Family Cichlidae  
Genus *Aequidens*  
Species *Aequidens rondoni* (Miranda Ribeiro, 1918)”

From Eschmeyer et al. (2017):

“*rondoni*, *Acaropsis* Miranda Ribeiro [A. de] 1918:11 [...], Pl. 4 (top) [Historia Natural. Zoologia. Cichlidae Publ. 46 (Annexo 5)] Rio do Sanguê, above Bello falls, Brazil. Holotype: MNRJ 1616. Type catalog: Miranda Ribeiro 1953:397 [...]. •Valid as *Aequidens rondoni* (Miranda Ribeiro 1918) -- (Kullander in Reis et al. 2003:609 [...]). **Current status:** Valid as *Aequidens rondoni* (Miranda Ribeiro 1918). Cichlidae: Cichlinae.”

### Size, Weight, and Age Range

From Froese and Pauly (2015):

“Max length: 9.7 cm SL male/unsexed; [Kullander 2003]”

### Environment

From Froese and Pauly (2015):

“Freshwater; benthopelagic.”

From Raghuvanshi et al. (2015):

“It is benthopelagic or swims above river/stream bed at depths of about 1-3 m in black water rivers.”

## **Climate/Range**

From Froese and Pauly (2015):

“Tropical”

## **Distribution Outside the United States**

Native

From Froese and Pauly (2015):

“South America: Amazon River basin, in the upper Tapajós River basin, Brazil.”

Introduced

No records of introduction were found for *Aequidens rondoni*.

## **Means of Introduction Outside the United States**

No records of introduction were found for *Aequidens rondoni*.

## **Short Description**

From Raghuvanshi et al. (2015):

“It is medium fish with standard length (from tip of snout to beginning of tail fin) about 4”.”

“*A. rondoni* has a typical tri serial pre dorsal arrangement of scales of its *Aequidens* with E1 scales 25 or 26.”

## **Biology**

From Raghuvanshi et al. (2015):

“It is a [sic] carnivorous in nature, and eats small fish, detritus.”

## **Human Uses**

Raghuvanshi et al. (2015) gives parameters and advice on keeping and breeding *Aequidens rondoni* in aquariums.

## **Diseases**

Information on pathogens and parasites known to be carried by *Aequidens rondoni* was not found.

## Threat to Humans

From Froese and Pauly (2015):

“Harmless”

## 3 Impacts of Introductions

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No records of introduction were found for *Aequidens rondoni*.

## 4 Global Distribution

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**Figure 1.** Known global distribution of *Aequidens rondoni*. *A. rondoni* is found in Brazil. Map from GBIF Secretariat (2017).

## 5 Distribution Within the United States

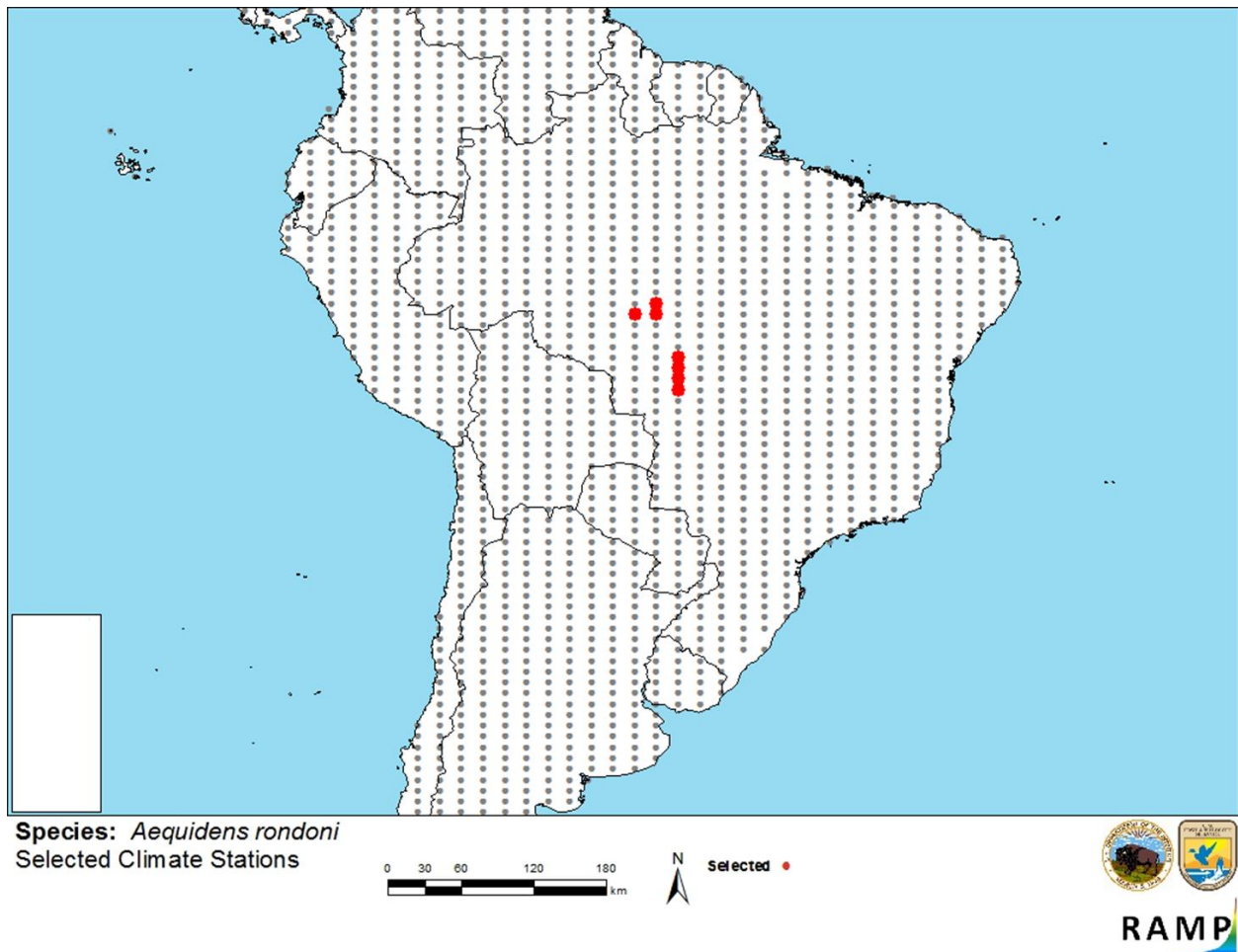
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No records of *Aequidens rondoni* introductions in the United States were found.

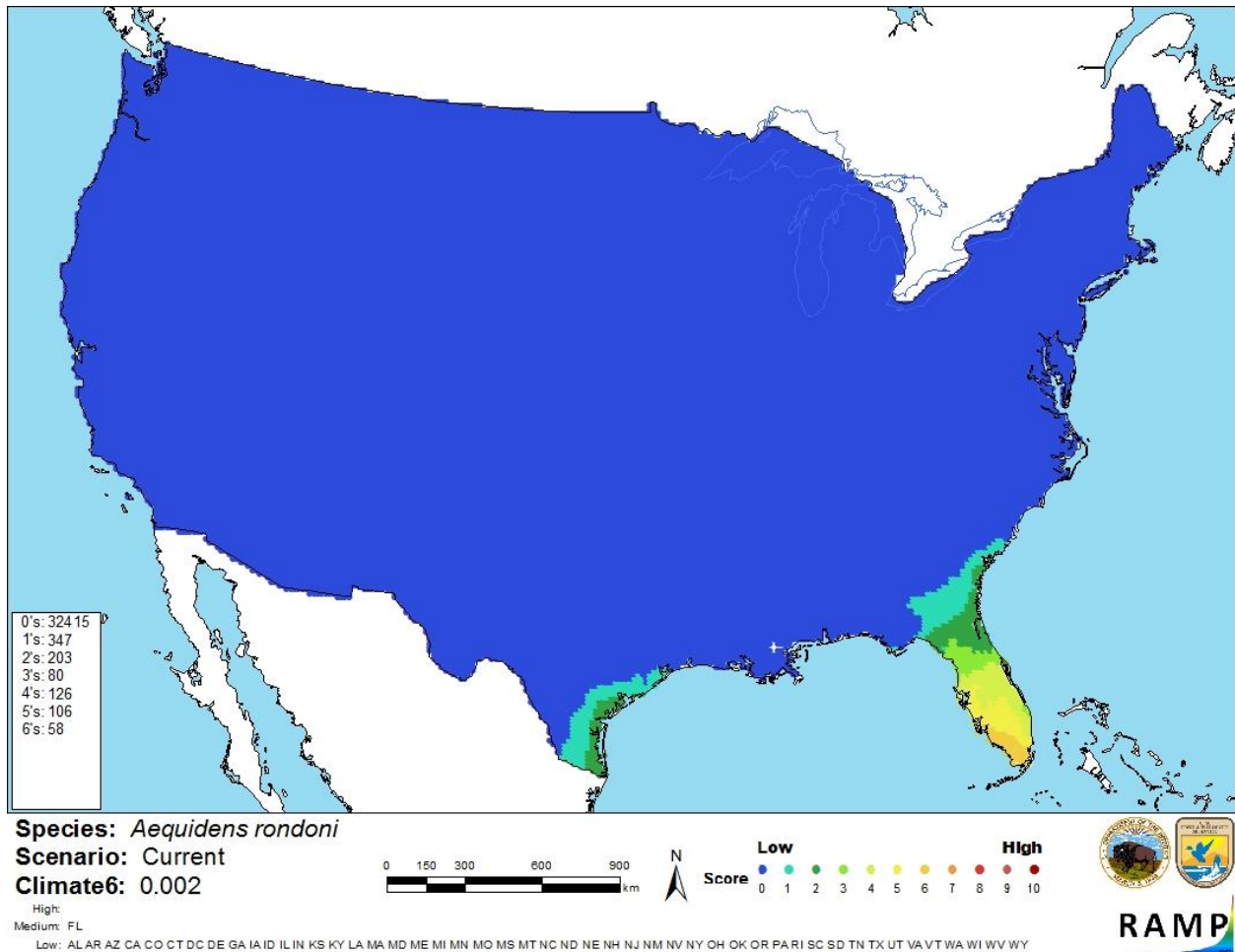
## 6 Climate Matching

### Summary of Climate Matching Analysis

The climate match for *Aequidens rondoni* was medium for southern Florida and low everywhere else. The Climate 6 score (Sanders et al. 2014; 16 climate variables; Euclidean distance) for the contiguous U.S. was 0.002, low, and no states had individually high climate scores.



**Figure 2.** RAMP (Sanders et al. 2014) source map showing weather stations in Brazil selected as source locations (red) and non-source locations (gray) for *Aequidens rondoni* climate matching. Source locations from GBIF Secretariat (2017).



**Figure 3.** Map of RAMP (Sanders et al. 2014) climate matches for *Aequidens rondoni* in the contiguous United States based on source locations reported by GBIF Secretariat (2017). 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
$\geq 0.103$	High

## 7 Certainty of Assessment

The certainty of this assessment is low. There was limited but information available for *Aequidens rondoni*. No records of introductions were found.

## 8 Risk Assessment

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### Summary of Risk to the Contiguous United States

The history of invasiveness is uncertain. There were no records of introductions found for *Aequidens rondoni*. The climate match is low, 0.002. The certainty of assessment is low. There was limited but high quality information available. The overall risk assessment category 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 remarks.
- **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.**

- Eschmeyer, W. N., R. Fricke, and R. van der Laan, editors. 2017. Catalog of fishes: genera, species, references. Available: <http://researcharchive.calacademy.org/research/ichthyology/catalog/fishcatmain.asp>. (August 2017).
- Froese, R., and D. Pauly, editors. 2015. *Aequidens rondoni* (Miranda Ribeiro, 1918). FishBase. Available: <http://www.fishbase.org/summary/Aequidens-rondoni.html>. (February 2015).
- GBIF Secretariat. 2017. GBIF backbone taxonomy: *Aequidens rondoni* (Miranda Ribeiro, 1918). Global Biodiversity Information Facility, Copenhagen. Available: <https://www.gbif.org/species/5208298>. (August 2017).
- ITIS (Integrated Taxonomic Information System). 2015. *Aequidens rondoni* (Miranda Ribeiro, 1918). Integrated Taxonomic Information System, Reston, Virginia. Available: [http://www.itis.gov/servlet/SingleRpt/SingleRpt?search\\_topic=TSN&search\\_value=648245](http://www.itis.gov/servlet/SingleRpt/SingleRpt?search_topic=TSN&search_value=648245). (February 2015).
- Raghuvanshi, S., L. Langley, and D. Widders. 2015. *Aequidens rondoni*. Aquatic-nation. Available: [http://aquaticnation.org/library/Lib\\_Cich\\_sp\\_Aequidens\\_rondoni.php](http://aquaticnation.org/library/Lib_Cich_sp_Aequidens_rondoni.php). (February 2015).
- Sanders, S., C. Castiglione, and M. Hoff. 2014. Risk assessment mapping program: RAMP. U.S. Fish and Wildlife Service.

## 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.

Kullander, S. O. 2003. Cichlidae (Cichlids). Pages 605–654 *in* R. E. Reis, S. O. Kullander, and C. J. Ferraris, Jr., editors. Checklist of the freshwater fishes of South and Central America. EDIPUCRS, Porto Alegre, Brazil.

Miranda Ribeiro, A. de. 1918. Historia Natural. Zoologia. Cichlidae. Comissão de Linhas Telegraficas Estrategicas de Matto-Grosso ao Amazonas. Publication 46(5):1–18.

Miranda Ribeiro, P. de. 1953. Tipos das espécies e subespécies do Prof. Alipio de Miranda Ribeiro depositados no Museu Nacional. Arquivos do Museu Nacional de Rio de Janeiro 42:389–417.

Reis, R. E., S. O. Kullander, and C. J. Ferraris, Jr., editors. 2003. Check list of the freshwater fishes of South and Central America. CLOFFSCA. EDIPUCRS, Porto Alegre, Brazil.