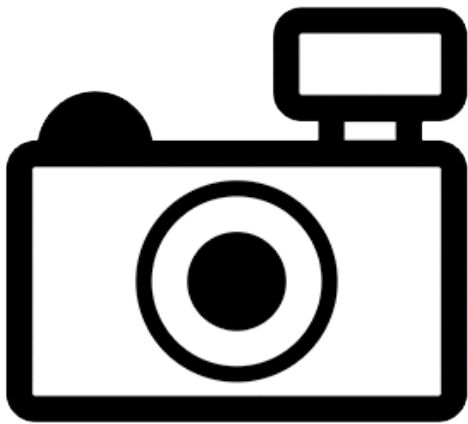


***Aequidens mauesanus* (a fish, no English common name)**

Ecological Risk Screening Summary

U.S. Fish and Wildlife Service, web version – 03/29/2018



No Photo Available

1 Native Range and Status in the United States

Native Range

From Froese and Pauly (2015):

“South America: Amazon River basin, in the Maués and Arapiuns rivers, Brazil.”

Status in the United States

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

Means of Introductions in the United States

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

Remarks

No additional remarks.

2 Biology and Ecology

Taxonomic Hierarchy and Taxonomic Standing

From ITIS (2014):

“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 mauesanus* Kullander, 1997”

From Eschmeyer et al. (2017):

“***mauesanus*, *Aequidens*** Kullander [S. O.] 1997:378 [...], Fig. 1 [Ichthyological Exploration of Freshwaters v. 7 (no. 4)] Rio Maués drainage, município do Maués, igarapé do Rio Maraú, Amazonas State, Brazil. Holotype: MZUSP 7306. Paratypes: MZUSP 7364 (2), 39084 (8); NRM 18454 (1), 18686 (4), 35571 (2), 37001 (4). •Valid as *Aequidens mauesanus* Kullander 1997 -- (Kullander in Reis et al. 2003:608 [...]). **Current status:** Valid as *Aequidens mauesanus* Kullander 1997. Cichlidae: Cichlinae.”

Size, Weight, and Age Range

From Froese and Pauly (2015):

“Max length: 13.4 cm SL male/unsexed; [Kullander 1997]”

Environment

From Froese and Pauly (2015):

“Freshwater; benthopelagic.”

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 Maués and Arapiuns rivers, Brazil.”

Introduced

No records of *Aequidens mauesanus* introductions were found.

Means of Introduction Outside the United States

No records of *Aequidens mauesanus* introductions were found.

Short Description

A short description of *Aequidens mauesanus* was not found.

Biology

From Froese and Pauly (2015):

“Found mainly in black-water rivers [Kullander 1997].”

Human Uses

Information on human uses of *Aequidens mauesanus* was not found.

Diseases

Information on diseases of *Aequidens mauesanus* was not found.

Threat to Humans

From Froese and Pauly (2015):

“Harmless”

3 Impacts of Introductions

No records of *Aequidens mauesanus* introductions were found.

4 Global Distribution

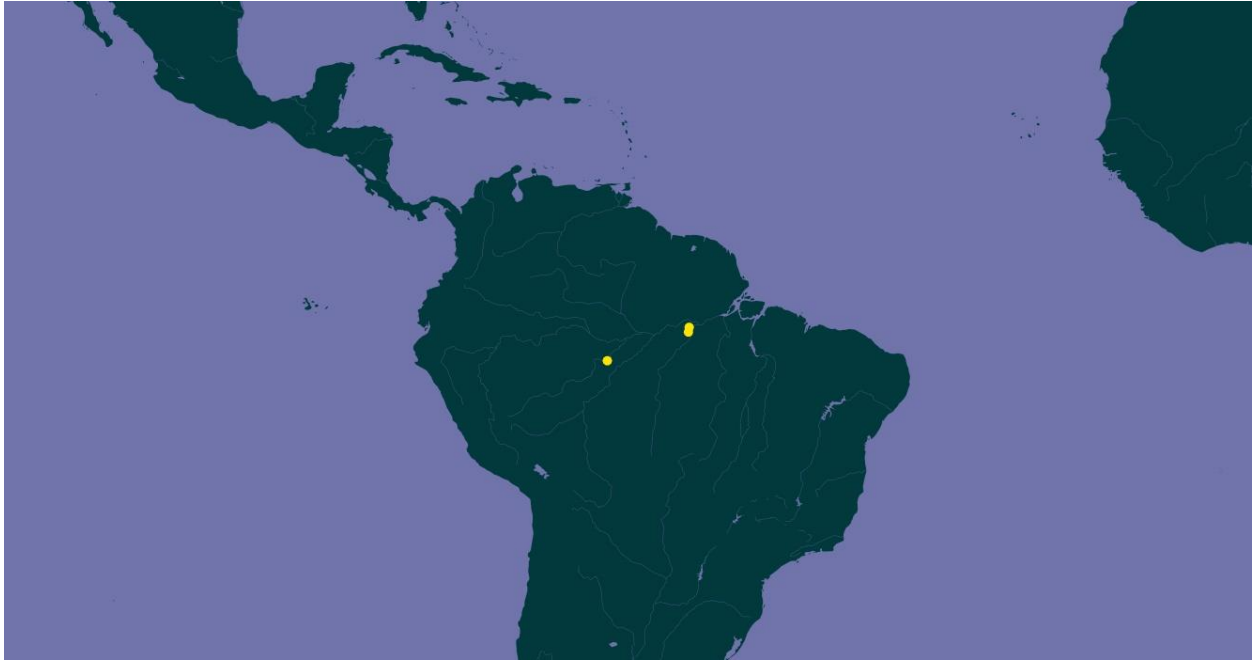


Figure 1. Known global distribution of *Aequidens mauesanus*. *A. mauesanus* is found in the Amazon Basin. Map from GBIF Secretariat (2017).

5 Distribution Within the United States

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

6 Climate Matching

Summary of Climate Matching Analysis

The climate match for *Aequidens mauesanus* was low across the entire contiguous United States. The Climate 6 score (Sanders et al. 2014; 16 climate variables; Euclidean distance) for the contiguous U.S. was 0.000, low, and no states had an individually high climate match.

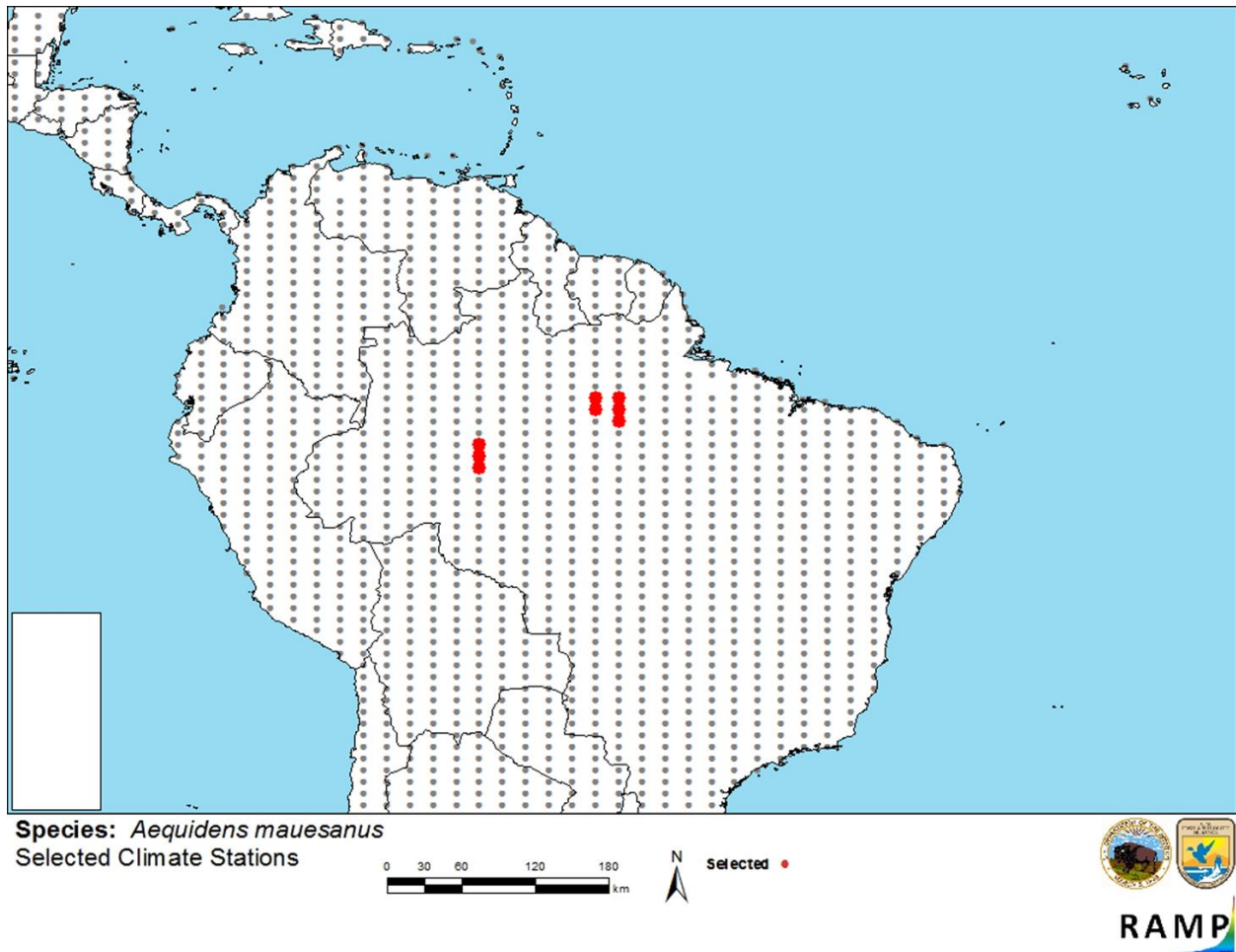


Figure 2. RAMP (Sanders et al. 2014) source map showing weather stations in Brazil selected as source locations (red) and non-source locations (gray) for *Aequidens mauesanus* climate matching. Source locations from GBIF Secretariat (2017).

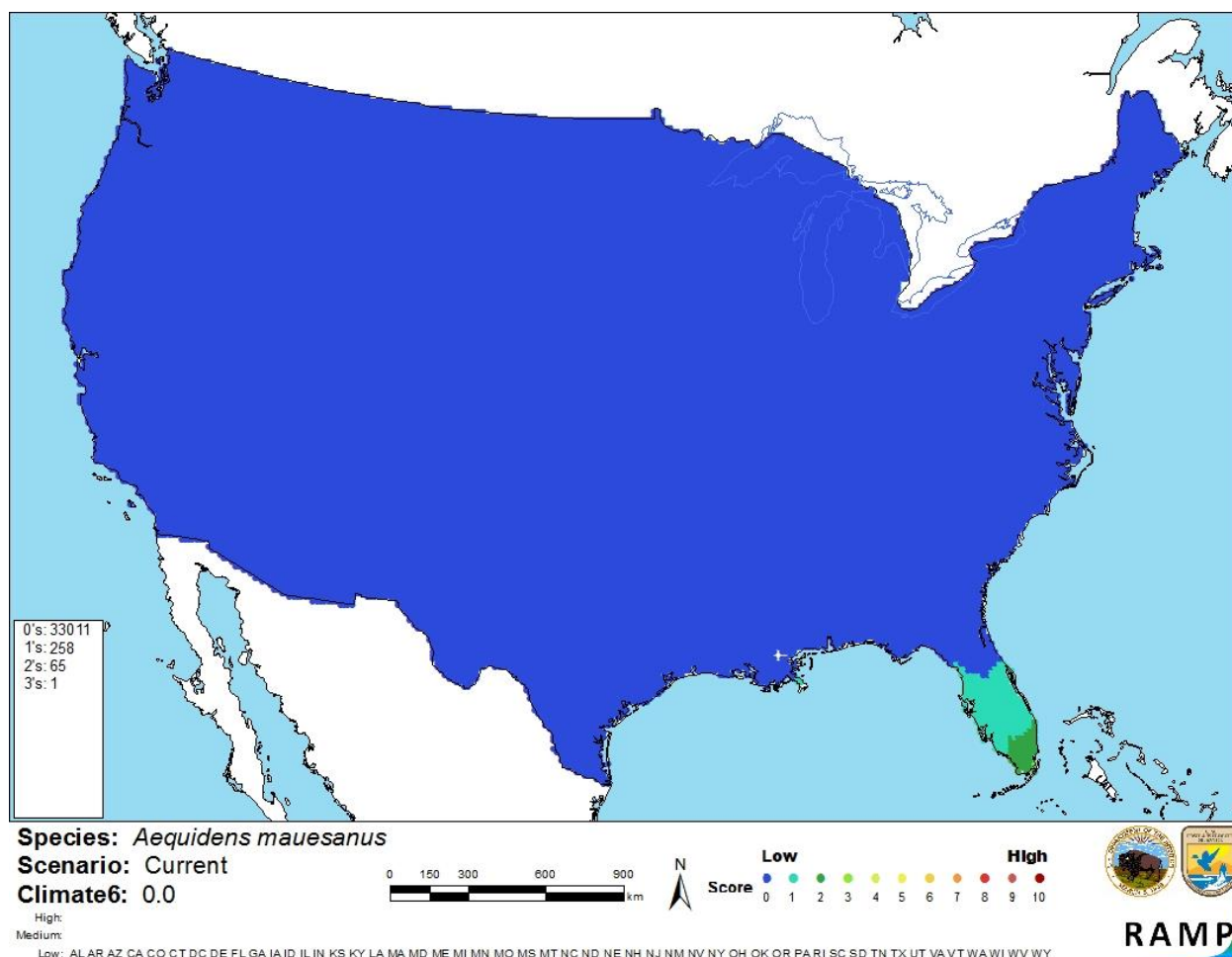


Figure 3. Map of RAMP (Sanders et al. 2014) climate matches for *Aequidens mauesanus* in the contiguous United States based on source locations reported by GBIF Secretariat (2017). 0 = Lowest match, 10 = Highest match. Counts of climate match scores are tabulated on the left.

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
$0.000 \leq X < 0.005$	Low
$0.005 < X < 0.103$	Medium
≥ 0.103	High

7 Certainty of Assessment

The certainty of assessment is low. There was minimal information available for *Aequidens mauesanus*. There were no records of introduction found.

8 Risk Assessment

Summary of Risk to the Contiguous United States

The history of invasiveness for *Aequidens mauesanus* is uncertain. No records of introductions were found. The climate match is low overall; all areas had a low climate match. The certainty of assessment is also low. There was minimal information available for this species. 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

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 mauesanus* Kullander, 1997. FishBase. Available: <http://fishbase.de/summary/Aequidens-mauesanus.html>. (January 2015).

GBIF Secretariat. 2017. GBIF backbone taxonomy: *Aequidens mauesanus* Kullander, 1997. Global Biodiversity Information Facility, Copenhagen. Available:
<http://www.gbif.org/species/5208309>. (August 2017).

ITIS (Integrated Taxonomic Information System). 2014. *Aequidens mauesanus* Kullander, 1997. Integrated Taxonomic Information System, Reston, Virginia. Available:
http://www.itis.gov/servlet/SingleRpt/SingleRpt?search_topic=TSN&search_value=648238. (October 2014).

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

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. 1997. *Aequidens mauesanus*, a new species of cichlid fish from the Amazon Basin, Brazil. *Ichthyological Explorations of Freshwaters* 7(4):377–383.

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.