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Amoreuxia gonzalezii - Sprague & Riley

Santa Rita Yellowshow

Related ITIS Name(s): *Amoreuxia gonzalezii* Sprague & Riley (TSN 22253)

Unique Identifier: ELEMENT_GLOBAL.2.142932

Element Code: PDBIX01010

Informal Taxonomy: Plants, Vascular - Flowering Plants - Other flowering plants

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Kingdom	Phylum	Class	Order	Family	Genus
Plantae	Anthophyta	Dicotyledoneae	Violales	Bixaceae	Amoreuxia

 Check this box to expand all report sections:

Concept Reference ?

Concept Reference: Kartesz, J.T. 1994. A synonymized checklist of the vascular flora of the United States, Canada, and Greenland. 2nd edition. 2 vols. Timber Press, Portland, OR.

Concept Reference Code: B94KAR01HQUS

Name Used in Concept Reference: *Amoreuxia gonzalezii*

Taxonomic Comments: A distinct species in a small American genus of 7 species.

Conservation Status ?

NatureServe Status

Global Status: G1

Global Status Last Reviewed: 15Apr2003

Global Status Last Changed: 11Aug1999

Rounded Global Status: G1 - Critically Imperiled

Reasons: Known with certainty only from northern Mexico and extending north to 2 locations in southern Arizona. Threatened by herbivory as this species is very palatable to cattle (AGFD 1995). Other threats include the aggressive, non-native species buffelgrass (*Cenchrus ciliaris*), which has been widely planted as a forage grass for cattle .

Nation: United States

National Status: N1

U.S. & Canada State/Province Status	
United States	Arizona (S1)

Other Statuses

NatureServe Conservation Status Factors

Global Abundance Comments: Abundance in populations influenced by rainfall (according to Ariz. ranking form).

Estimated Number of Element Occurrences: 1 - 5

Estimated Number of Element Occurrences Comments: Reported from 2 subpopulations in the Santa Rita Mountains, Pima County, Arizona and from 4 populations in northern Mexico (according to Arizona ranking form 1/99).

Degree of Threat: Slightly threatened

Threat Scope: Unknown

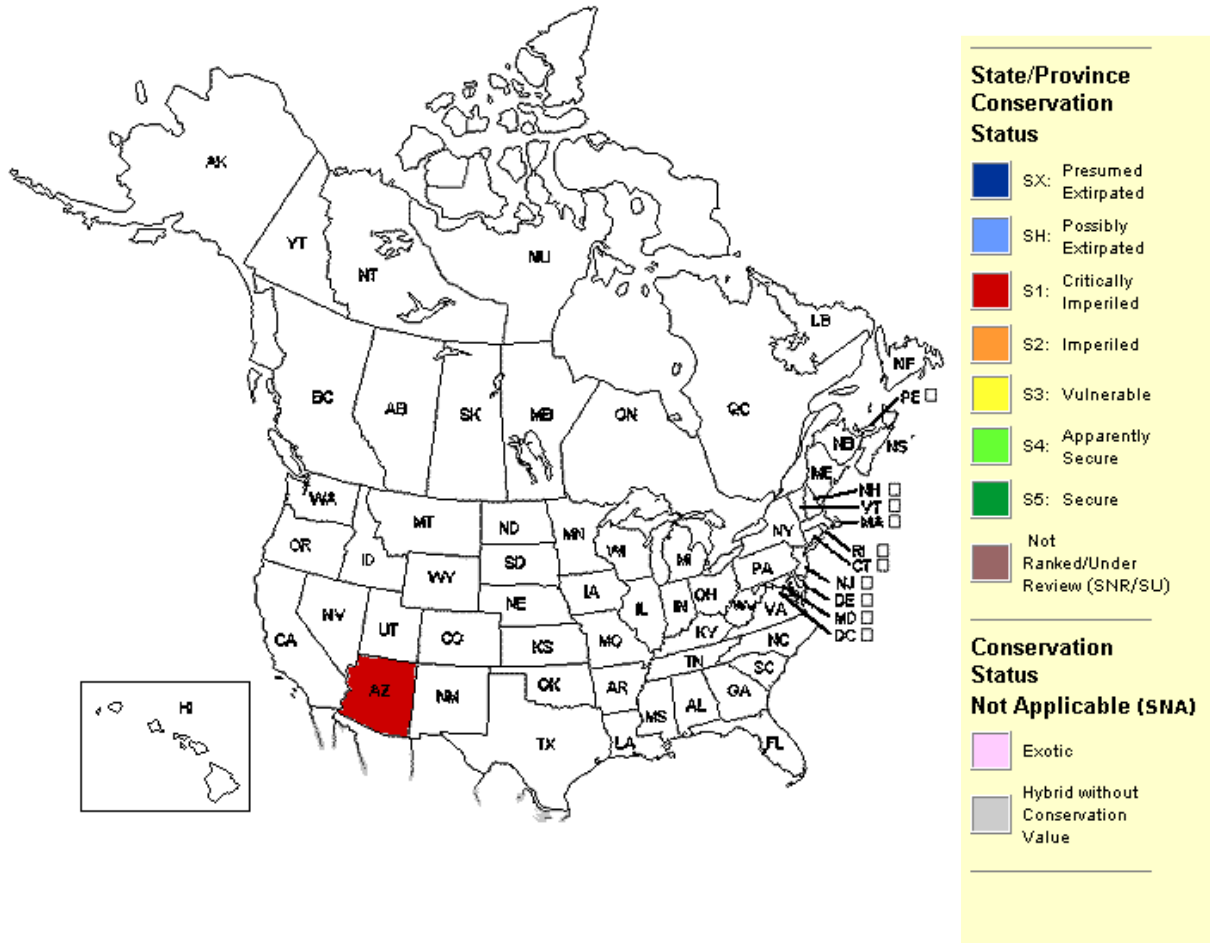
Threat Severity: Low

Threat Immediacy: High

Threats: The foreseeable threat with the greatest impact is alien species. Herbivory by cattle is the biggest management problem as this species is very palatable to cattle (AGFD 1995). Degradation of habitat due to livestock grazing is also a threat (AGFD 1995). Other threats include introduction and spread of buffelgrass (*Cenchrus ciliaris*), Lehman's lovegrass (*Eragrostis lehmanniana*), and other aggressive, exotic plants (AGFD 1995). *Amoreuxia gonzalezii* may also be threatened by Javelina rooting up roots, development and mining (Rice n.d.; AGFD 1995). With so few populations and individuals, stochastic and naturally occurring events are also threats to *Amoreuxia gonzalezii*.

Distribution

U.S. States and Canadian Provinces



U.S. & Canada State/Province Distribution	
United States	AZ

Range Map

No map available.

Global Range Comments: Southern Arizona and northern Mexico.

National Distribution Outside of U.S. & Canada: Mexico

Natural heritage records exist for the following U.S. counties ?	
State	County Name (FIPS Code)
AZ	Pima (04019)*, Santa Cruz (04023)*

* Extirpated/possibly extirpated

U.S. Distribution by Watershed (based on available natural heritage records) ?	
Watershed Region ?	Watershed Name (Watershed Code)
15	Upper Santa Cruz (15050301)+, Brawley Wash (15050304)+

+ Natural heritage record(s) exist for this watershed

* Extirpated/possibly extirpated

Ecology & Life History ?

Basic Description: A perennial herb with short flowering stems (2.5-3.5 dm tall) from a large tuber-like root. Produces salmon-orange colored flowers (July-September) and large ellipsoidal fruit.

Habitat Comments: Upper Sonoran desertscrub/grassland transition zone. In Arizona, occurs on limestone hills and talus slopes at 1280-1370 m in the Santa Rita Mountains. In Mexico, occurs on granite at about 460 m.

Economic Attributes ?

Management Summary ?

Population/Occurrence Delineation ?

Alternate Separation Procedure: [Use the Habitat-based Plant Element Occurrence Delimitation Guidance \(2004\).](#)

Date: 01Oct2004

Population/Occurrence Viability ?

Justification: [Use the Generic Element Occurrence Rank Specifications \(2008\).](#)

[Key for Ranking Species Element Occurrences Using the Generic Approach \(2008\).](#)

U.S. Invasive Species Impact Rank (I-Rank) ?

Authors/Contributors ?

NatureServe Conservation Status Factors Edition Date: 01Aug1989

NatureServe Conservation Status Factors Author: Gardner, P.A., rev. Maybury (1996), rev. A. Olivero (2003)

Botanical data developed by NatureServe and its network of natural heritage programs (see [Local Programs](#)), The North Carolina Botanical Garden, and other contributors and cooperators (see [Sources](#)).

References ?

- Arizona Game and Fish Department. 1995. *Amoreuxia gonzalezii*. Unpublished abstract compiled and edited by the Heritage Data Management System, Arizona Game and Fish Department, Phoenix, Arizona. 3 pp.
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Note: All species and ecological community data presented in NatureServe Explorer at <http://www.natureserve.org/explorer> were updated to be current with NatureServe's central databases as of **August 2010**.

Note: This report was printed on **May 28, 2011**

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Citation for data on website including State Distribution, Watershed, and Reptile Range maps:
NatureServe. 2010. NatureServe Explorer: An online encyclopedia of life [web application]. Version 7.1. NatureServe, Arlington, Virginia. Available <http://www.natureserve.org/explorer>. (Accessed: May 28, 2011).

Citation for Bird Range Maps of North America:
Ridgely, R.S., T.F. Allnutt, T. Brooks, D.K. McNicol, D.W. Mehlman, B.E. Young, and J.R. Zook. 2003. Digital Distribution Maps of the Birds of the Western Hemisphere, version 1.0. NatureServe, Arlington, Virginia, USA.

Acknowledgement Statement for Bird Range Maps of North America:
"Data provided by NatureServe in collaboration with Robert Ridgely, James Zook, The Nature Conservancy - Migratory Bird Program, Conservation International - CABS, World Wildlife Fund - US, and Environment Canada - WILDSPACE."

Citation for Mammal Range Maps of North America:
Patterson, B.D., G. Ceballos, W. Sechrest, M.F. Tognelli, T. Brooks, L. Luna, P. Ortega, I. Salazar, and B.E. Young. 2003. Digital Distribution Maps of the Mammals of the Western Hemisphere, version 1.0. NatureServe, Arlington, Virginia, USA.

Acknowledgement Statement for Mammal Range Maps of North America:
"Data provided by NatureServe in collaboration with Bruce Patterson, Wes Sechrest, Marcelo Tognelli, Gerardo Ceballos, The Nature Conservancy-Migratory Bird Program, Conservation International-CABS, World Wildlife Fund-US, and Environment Canada-WILDSPACE."

Citation for Amphibian Range Maps of the Western Hemisphere:
IUCN, Conservation International, and NatureServe. 2004. Global Amphibian Assessment. IUCN, Conservation International, and NatureServe, Washington, DC and Arlington, Virginia, USA.

Acknowledgement Statement for Amphibian Range Maps of the Western Hemisphere:
"Data developed as part of the Global Amphibian Assessment and provided by IUCN-World Conservation Union, Conservation International and NatureServe."

NOTE: Full metadata for the Bird Range Maps of North America is available at:
<http://www.natureserve.org/library/birdDistributionmapsmetadatav1.pdf>.

Full metadata for the Mammal Range Maps of North America is available at:
<http://www.natureserve.org/library/mammalsDistributionmetadatav1.pdf>.

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