

Sonora semiannulata

This species is complete.

March 24, 2014 by Amber Lankford

Author(s) Expertise: 1

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Sensitivity Factor	Sensitivity 1 - 7 (one being least sensitive, seven being most sensitive)	Confidence 1 - 5 (one being least sensitive, five being most sensitive)
Generalist/Specialist	2 Medium-Low	2 Poor
Physiology	3 Medium	1 Very Poor
Life History	4 Medium-High	3 Fair
Habitat		2 Poor
Dispersal Ability	4 Medium-High	2 Poor
Disturbance Regimes	1 Low	1 Very Poor
Ecology	1 Low	1 Very Poor
Non-Climatic	2 Medium-Low	2 Poor
Other (weight)		

Sensitivity Score : 29 Low

Sensitivity Score

$100 * [(0.5 * (\text{Dispersal Distance} + \text{Dispersal Barriers}) + \text{Disturbance Regimes} + (0.5 * \text{Generalist/Specialist}) + \text{Physiology} + (0.5 * \text{Life History}) + \text{Sensitive Habitats} + \text{Ecology} + \text{Non-Climatic Stressors} + (\text{Other} * \text{Weight}) / 49 + (7 * \text{Weight})]$

Note: if Sensitive Habitats are identified, this factor automatically gets a value of seven, otherwise it remains zero.

Confidence Score : 1 Very Poor

Confidence Score

The Confidence Score is an average of the Confidence column above.

Overall User Ranking: 2 Medium-Low

Author Expertise:

1 (low)

Common Name:

Ground snake

Is this Species completed:

Yes

<p>Taxonomy This is a description of the whole group</p> <p>Scientific Name: Sonora semiannulata</p> <p>Geography: Idaho</p> <p>Realm: Terrestrial</p> <p>Kingdom: Animal</p> <p>Phylum: Chordata</p> <p>Class: Reptilia</p> <p>Order: Squamata</p> <p>Family: Colubridae</p> <p>Genus: Sonora</p> <p>Global Rank: G5 (2005)</p> <p>Rounded Global Rank: G5 - Secure</p> <p>IUCN: Least Concern ver 3.1 - 2007</p>
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— Generalist/Specialist —

Broadly, where does this species fall on the spectrum of generalist to specialist? :

2

Confidence in your assessment of the degree to which the species is a generalist or specialist:

2 Poor

Comments:

Consumes invertebrates such as spiders, scorpions, centipedes, crickets, grasshoppers, insect larvae.

Citations:

Cossel Jr., J. 1998. *Sonora semiannulata* (Western ground snake).

<<http://imnh.isu.edu/digitalatlas/bio/reptile/serp/sose/sosefram.htm>>. Accessed 28 Feb 2014.

Physiology

Species' physiological sensitivity:

3

Confidence in how physiologically sensitive the species is to climate change:

1 Very Poor

Life History

Species' reproductive strategy:

4

Confidence in your assessment of the species' reproductive strategy:

3 Fair

Is the species polycyclic, iteroparous, or semelparous?:

Iteroparous (reproduces in successive cycles--characteristic of K-strategists)

How many surviving young can an individual produce during a single reproductive event under optimal conditions?:

4 to 6

How many reproductive events can an individual undergo in a single year under optimal conditions?:

1

Citations:

Goldberg, S.R. 2001. Reproduction in the ground snake, *Sonora semiannulata* (Serpentes: Colubridae), from Arizona. *The Southwestern Naturalist* 46:387-391.

Sensitive Habitats

Confidence in whether the species depends on the listed sensitive habitat types:

2 Poor

Level of philopatry:

low

Comments:

Found in arid and semi-arid regions including along river bottoms, desert flats, sand hummocks and from prairie to pinyon-juniper.

Citations:

Frost, D.R., Hammerson, G.A. & Santos-Barrera, G. 2007. *Sonora semiannulata*. In: IUCN 2013. IUCN Red List of Threatened Species. Version 2013.2. <www.iucnredlist.org>. Downloaded on 28 February 2014.

Dispersal Ability

Maximum annual dispersal distance:

5-25km

Confidence in maximum annual dispersal distance:

1 Very Poor

Within the context of dispersal distance above, do barriers to dispersal exist?:

3

Confidence in barriers to dispersal exists:

3 Fair

Please select the types of barriers relevant to dispersal:

Road (Highway)

Road (Arterial)

Rivers

Disturbance Regimes

How sensitive is this species to one or more disturbance regimes:

1 not sensitive on the nature of any disturbance regime

Confidence in how sensitive is this species on one or more disturbance regimes:

1 Very Poor

Please check all disturbance regimes upon which the species is sensitive:

Flooding

Urbanization

Ecological Relationships

Confidence in how sensitive the species is to other effects of climate change on its ecology:

1 Very Poor

How sensitive is this species? ecological relationships to the effects of climate

change?:

1 (not sensitive)

Interacting non-climatic stressors

To what degree do other, non-climate-related threats, to the species make it more sensitive to climate change?:

2

Confidence in the degree to which non-climate-related threats affect the species' sensitivity to climate change:

2 Poor

Overall User Ranking

In your opinion, how would you rank the overall sensitivity of this species to climate change?:

2

Confidence in your overall assessment of the sensitivity of this species to climate change:

2 Poor

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Links:

[1] <http://climatechangesensitivity.org/printpdf/907>