The Convention on International Trade in Endangered Species of Wild Fauna and Flora (CITES), has the purpose of regulating international trade in plant and animal species listed in its Appendices, and ensuring that it is sustainable.

> Appendix I (5 species from the genus Abronia) includes endangered species. In general terms, the exchange with commercial purposes is restricted.

Appendix II (24 species from the genus Abronia) includes species that are not necessarily endangered but could be if their international trade is not regulated. It also includes some species that are not threatened by international trade, but can be confused with those that are, and therefore their trade must also be regulated. In general terms, international trade with commercial purposes is allowed.

## N MEXICO, CONTACT:

Law enforcement: PROFEPA (01-800-77-033-72).

→ Harvest and exportation permits:

General Direction of Wildlife, SEMARNAT (+52-55-5624-3309)

Scientific and technical advice: Scientific Authority of CITES, CONABIO (+ 52-55-5004-4937).

### WORLDWIDE:

Reach out your CITES Authorities at www.cites.org

### **REFERENCE GUIDE**

Categories of the International Union for Conservation of Nature (IUCN) Red List.

Least Concern Data Deficien CITES Risk categories in Mexico Appendices: I, NOM-059-SEMARNAT-2010 Ρ Pr Endangered Threatened Under special protection **Species distribution:** SV G1 Mexico Guatemala Honduras El Salvador

How to quote: Sánchez-Herrera, O., Solano-Zavaleta. I., Rivera-Téllez, E. 2017. Identification guide for dragons (Arboreal alligator lizards, CONABIC Abronia spp.) regulated by CITES. CONABIO, Mexico



# IDENTIFICATION GUIDE FOR (Arboreal alligator lizards, Abronia spp.)

**REGULATED BY CITES** 

**ΑΤΤΕΝΤΙΟ** 

LIST OF

**CHARACTERISTICS** 

**OF THE DRAGONS** 

Between 4 and 8

back of the neck.

A fold in the side

between the rear

and front legs.

rows of scales in th

L

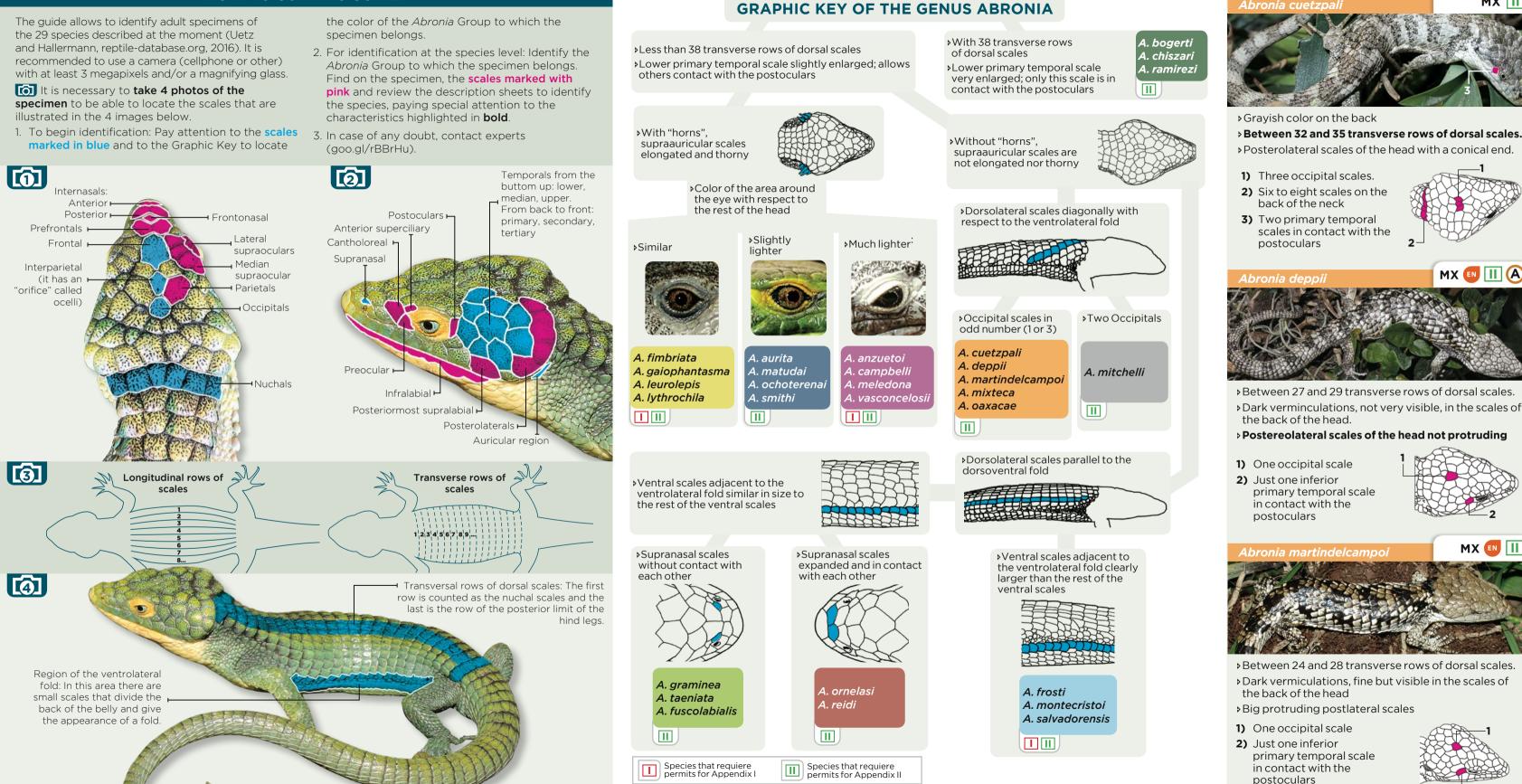
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## **HOW TO USE THIS GUIDE?**

the 29 species described at the moment (Uetz and Hallermann, reptile-database.org, 2016). It is recommended to use a camera (cellphone or other) with at least 3 megapixels and/or a magnifying glass.

It is necessary to take 4 photos of the specimen to be able to locate the scales that are illustrated in the 4 images below.

1. To begin identification: Pay attention to the **scales** marked in blue and to the Graphic Key to locate



IF THE SPECIMEN DOES NOT PRESENT THESE CHARACTERISTICS. IT IS NOT A DRAGON

Prehensile tail

3 and 4 scales

and the end of

No fold in the

the head.

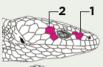
between the eve







- Between 28 and 31 transverse rows of dorsal scales > Posterolateral scales of the head with a conical end.
- > At least six scales on the back of the neck
- 1) Anterior superciliary in contact with the cantholoreal scale.
- 2) Two primary temporal scales in contact with the postoculars
- 3) Three occipital scales.



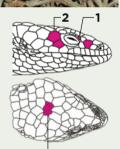


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- Between 27 and 29 transverse rows of dorsal scales.
- Posterolateral scales of the head protruding and with a conical end
- 1) Anterior superciliary does not contact the canthoreal scale.
- **2)** Two primary temporal scales in contact with the postoculars.
- 3) Three occipital scales.

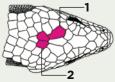


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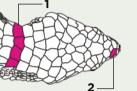


- Abronia mitchelli
- Greenish gray dorsal color with black speckles and irregular brown spots.
- >Ventral scales adjacent to the ventrolateral fold are of similar size to the rest of the ventral scales
- 1) Parietal scales do not contact the median supraoculars
- Two occipital scales





- Uniform green or bluish color, without transverse bands on the back. Tail without transverse bands in the ventral region.
- 1) Four scales on the back of the neck (occasionally six)
- 2) Canthal scales fused with posterior internasal scales





> Whitish creamy or vellowish color, with six to eight dark transverse spots. Tail with incomplete transverse bands on the ventral surface.

1) Six scales on the back of the neck

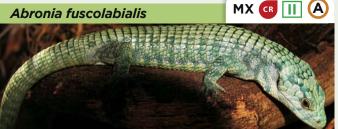
Abronia chiszari

the fourth toe

2) Canthal scales fused with posterior internasal scales

Back with creamy yellowish or greenish tones and 10

> More than 10 longitudinal rows of ventral scales



- Generally greenish or brownish green color, with dark dorsal transverse bands more evident on the sides. Tail with incomplete transverse bands on the ventral surface of the body and tail.
- 1) Two lower temporal scales in contact with postoculars.
- 2) Canthal scales distinguishable from the posterior internasals.

Abronia ramirezi



> Back light brown or buff color, with seven dark transverse spots.

>10 longitudinal rows of ventral scales

- **1)** Two to three primary temporal scales
- 2) Frontonasal and nasal scales are in contact.
- **3)** Two lateral supraocular scales 17 or less, subdigital lamellae on the fourth toe

Abronia salvadorensis

Whithout photography available, we are looking for collaborations.

Brown color with dark transverse spots visible on the sides. Occasionally a thin dark eye mask towards the auricular region.

- >14 longitudinal rows of ventral scales (occasionally 12)
- 1) One to three occipital scales
- 2) Parietal scale does not contact median supraoculars
- **3)** Two primary temporal scales in contact with postoculars



- Brown back occasionally with greenish tones. vellowish hands and legs
- 1) Frontonasal and frontal scale in contact
- 2) Parietal scale does not contact the median supraoculars
- **3)** Four primary temporal scales
- > 30 to 33 rows of dorsal scales

Usually without frontonasal

Abronia fimbriata



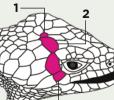
- Buff pale color with seven to nine transverse dark spots Generally 10 to 12 longitudinal rows of ventral scales
- 1) Frontonasal and nasal scales do not contact or have minimal contact.
- 2) Two to three lateral supraocular scales
- 3) Two to three primary temporal scales.
- Usually more than 17 subdigital lamellae on the fourth
- >Usually between 38 and 43 transverse rows of dorsal scales



# Light grav or vellowish color with dark spots

>Between 14 and 16 longitudinal rows of ventral scales

- 1) One occipital scale
- 2) Parietal scale in contact with median supraocular scales
- **3)** Two primary temporal scales in contact with the postoculars





or more dark transverse spots.

>Usually between 40 and 47

do not contact.

> More than 17 subdigital lamellae on

transverse rows of dorsal scales.

1) Frontonasal and frontal scales

2) Three primary temporal scales

3) 3) Three lateral supraocular scales



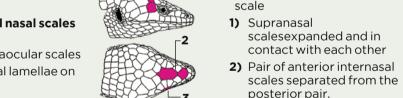
- Brown color with a pattern of transverse spots, occasionally not well defined
- >12 longitudinal rows of ventral scales
- ) Five occipital scales
- Three primary temporal scales in contact with the postoculars



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### Abronia leurolepis



### Back grayish olive with dark, thin and irregular spots usually in the form of a "v".

Frontonasal scale absent

Last infralabial scale elongated in comparison to the penultimate one.



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- temporal region.
- Between 14 and 15 longitudinal rows of dorsal scales
- 1) Primary and secondary upper temporal scales of similar size to the tertiary.
- 2) Preauricular scales granular and arranged in rows

- eight spines on each side of the head.
- Yellowish scales in the form of lamellae under the fingers
- 1) Two primary temporal scales in contact with postoculars
- 2) Lower secondary temporal scale 🏾 🖉 🖉 💬 large and in contact with the median primary temporal

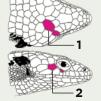




the head.

### Black or dark brown scales in the form of lamellae under the fingers.

- 1) Parietal scale in contact with the last median supraocular scale.
- 2) Subocular scale separated from the lower primary temporal

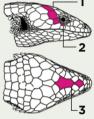




>12 longitudinal rows of ventral scales

> Preauricular scales granular and in rows

- 1) Three primary temporal scales
- 2) Posterior subocular scale in contact with lower primary temporal scale
- 3) Frontonasal scale usually in contact with frontal

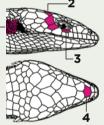


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#### > Yellowish green back. Scales of the back with keels.

>12 longitudinal rows of ventral scales

- 1) Preauricular scales with irregular arrangement
- 2) Four or five primary temporal scales
- 3) Posterior subocular scale does not contact the lower primary temporal
- 4) Frontonasal scale usually wider in the back





> Back green or pale turguoise with black spots.

> Males usually have orange spots on the temporal region

1) Posteriormost supralabial scale large and elongated Larger than the previous

