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ANGUÍDEOS

Fringed Arboreal Alligator Lizard

Abronia fimbriata

Abronia fimbriata is a brown, arboreal alligator lizard with thorn-like scales above the ear, found in the cloud forests of Guatemala's north-eastern highlands. It reaches about 25-35 cm, gives birth to live young and eats insects. It needs a tall, airy enclosure with moss and bromeliads and cool temperatures. The species is threatened, and its care is only sparsely documented.

Família: Anguidae Nome anterior: *Barissia fimbriata; Gerrhonotus fimbriatus*

DADOS PRINCIPAIS

O ANIMAL

Tamanho adulto	**25-35 cm** comprimento total com a cauda
Longevidade	**10-20 anos**
Ativo	**De dia**
Estilo de vida	**Arborícola**
Habitat	**Floresta de montanha**
Dificuldade	**Experiente**

CUIDADOS

Terrário mín.	**50 × 50 × 75 cm** C × L × A para 2 adultos
Temperatura, dia	**20-27 °C**
Ponto quente	**26-30 °C**
Temperatura, noite	**10-18 °C**
Umidade	**60-80%**
Água	**Sem recipiente de água**
UVB	**Recomendado** Zona de Ferguson 2
Alimentação	**Insetos e minhocas/caracóis**
Mantido	**Sozinho ou em casal**

REPRODUÇÃO

Reprodução	**Vivíparo**
Maturidade sexual	**24-36 meses**
Tamanho da ninhada	**4 filhotes**
Posturas por ano	**1**
Gestação	**180-240 dias**

PROTEÇÃO E DOCUMENTAÇÃO

CITES	**Apêndice I**
Anexo da UE	**Anexo A**
IUCN	**Em perigo (EN)**

Sobre a espécie

Abronia fimbriata is a fairly slender, elongated alligator lizard with a triangular head, keeled scales and a long, prehensile tail. It is one of the most distinctive species in the genus, with thorn-like scales above the ear in subadults and adults. Adults are brown with fine black marbling, mostly on the back. Hatchlings have a broad, light brown stripe down the back, and subadults have brown, V-shaped crossbands. The species name is Latin and means "fringed".

The head and body measure at most about 13 cm, and females typically measure about 10 cm. The tail is longer than the body, so the animal reaches about 25-35 cm in total. The total length is an estimate based on the snout-vent length. Newborn young measure about 3 cm from snout to vent. The weight is not documented.

The animals were first described by Marie Firmin Bocourt under the name *Gerrhonotus auritus*, but that name was already in use for another species, so Edward Drinker Cope gave the species the new name *Barissia fimbriata* in 1885. Today it is placed in the genus *Abronia*. In the Sierra de Xucaneb and the western part of the Sierra de las Minas it lives alongside *Abronia gaiophantasma* in a belt of about 50 km, so the origin and identification of the animals should be documented.

The species is slow and cautious, but if startled it can quickly drop from the branches and flee. It does not become tame to the same degree as many other lizards and is best suited as an animal to observe. Lifespan in captivity is not documented; 10-20 years is an estimate.

Distribuição e habitat

Abronia fimbriata is found only in the highlands of north-eastern Guatemala. It is reliably known from the cloud forests of the western Sierra de las Minas in Baja Verapaz at 1,500-2,100 m and from the Sierra de Xucaneb in Alta Verapaz at 1,400-2,000 m. The type locality is restricted to the area around Cáquipec in Alta Verapaz.

The range is very small and fragmented, because cloud forest occurs only at certain elevations.

> **Área de ocorrência natural:** Guatemala.

HABITAT

Abronia fimbriata is a diurnal, arboreal animal of cloud forest at 1,400-2,100 m. The trees of the cloud forest are densely covered with moss, ferns, orchids and bromeliads, which in this genus are important as shelter, water sources and hunting grounds. Members of the genus are occasionally found on the ground, in rotting wood or in large cushions of moss.

The climate is cool and humid, with mist and heavy rainfall, and the difference between day and night is large. Members of the genus bask in the morning and early forenoon. In cold spells they take shelter in hollow trees, and in hot spells they retreat into the shade under thick moss.

The species is assessed as Endangered (EN) by the IUCN. It disappears or becomes very scarce where undisturbed forest is altered by people, and the cloud forest is cleared for agriculture and charcoal.

Cuidados

O TERRÁRIO

Care of *Abronia fimbriata* is only sparsely documented, and the figures given here are borrowed from the closely related *Abronia graminea*, which is the best-known species in the genus. A pair needs an enclosure of at least 50 × 50 × 75 cm (length × width × height). Height matters more than floor area, but bigger is better, and 60 × 60 × 90 cm gives clearly more room. The enclosure must be very well ventilated: fully or partly mesh, so that the air changes without the humidity disappearing altogether. Stagnant, damp air causes mould and respiratory problems.

Cover the floor with 5-10 cm of long-fibre sphagnum moss. It holds moisture and provides a cool spot, but it should be damp in some places and dry in others, for example under the basking spot. Now and then let the whole substrate dry out before moistening it again, so that the humidity fluctuates as it does in the wild. Furnish the enclosure densely with branches of several thicknesses and live plants, especially bromeliads and orchids, and ideally cork tubes filled with moss as hides. The plants also provide humidity, cover and drinking water in their leaves.

Keep males separately. A pair can be kept together if there are many hiding places and plenty of space. Juveniles can be kept in small groups of two or three, but must be watched closely, and if they cannot avoid each other they must be separated. Small gaps in the corners of a mesh enclosure where feeder insects could escape should be sealed with silicone.

TEMPERATURA

Abronia fimbriata does not tolerate heat. The daytime temperature should be 20-27 °C, and the basking spot under a weak spotlight may reach 26-30 °C. The animal is most active at 24-27 °C. Above 32 °C is dangerous, and a closed, sunlit enclosure without shade can kill the animal in a short time. At night the temperature may fall to 10-18 °C, but never below 7 °C. A clear drop at night and a cool winter matter most if the animals are to breed; animals that are not to breed do well at room temperature with a warm end and a cool end.

Juveniles are more sensitive than adults. Above 29 °C is dangerous for them, so the basking spot should be weaker, and they need cooler areas. Shade panels of cork bark or broad-leaved plants provide shade, and damp moss on the floor provides cool spots. Measure with digital thermometers both high and low in the enclosure.

A cool winter with slightly less feeding and shorter days suits the species. The animal becomes slower and eats less when it is cold.

UMIDADE E ÁGUA

Relative humidity should be 60-80 %, with the highest values at night and after misting. Mist the plants, walls and animals lightly almost every day, ideally with a pressure sprayer or a fogger that produces a fine mist. Two to three times a week, a drip system or a dripping cup of about 2.5 dl of water over a plant lets the water run down the leaves. The species drinks water droplets from leaves and rarely uses a water bowl.

Water must be free of chlorine: use tap water that has stood open for a day, or filtered water. Humidity must not become constant: the species is not a wetland animal, and a substrate that is always waterlogged causes mould and disease. Short, wet periods of four to five days are followed by dry days. Dehydration is a common cause of death, and an animal with sunken eyes or wrinkled skin must immediately be given humidity and drinking water.

ILUMINAÇÃO E UVB

The species is diurnal and needs UVB. The best option is natural, unfiltered sunlight, for example in an outdoor mesh cage in dry weather in summer, with shade and a cool surface so that the animal can move away. Indoors, use a T5 tube with UVB and a weak heat source. The species belongs at around Ferguson zone 2, with a UV index of 0.7-3 in the brightest part and shade elsewhere. Position the light so that the animal can choose for itself how much it wants.

The light is switched on in the morning and off in the evening, and the day length can follow the season. The heat is switched off at night.

Saiba mais: Luz e UVB

ALIMENTAÇÃO

Abronia fimbriata feeds on insects and other small animals. Offer crickets, grasshoppers, mealworms, cockroaches, snails, spiders and soft larvae, for example green caterpillars and fly larvae with a high calcium content. Insects with a lot of plant matter, such as grasshoppers and caterpillars, are particularly good. Gut-load feeder insects for a day before use with greens and vegetables. Avoid feeder insects reared on very protein-rich feed, because the diet should be relatively low in protein.

Dust the food with calcium without D3 at most meals and with a multivitamin now and then. If you use UVB or sunlight, D3 should not be added. Juveniles get calcium at every meal for the first few months. Pregnant females need extra calcium.

Feed adults 2-3 times a week and juveniles more often, and remove what is not eaten. Many eat most readily from tweezers. Males eat less in summer before mating, and all animals eat less in winter.

Saiba mais: Cálcio, vitaminas e suplementos

COMPORTAMENTO E MANUSEIO

The species is quiet and shy. The animal spends most of the day sitting still on a branch or in a bromeliad and basks for short periods. It is not an animal to be handled. Some become calm with time, but others bite, and a bite can hurt and bleed. Keep handling to a minimum, and do it only when necessary.

Males are territorial and can fight seriously, so they must be kept separately. Females can also fight, but less often. The tail can be shed if the animal is grabbed, and it only partly regrows. Wash your hands after any contact with the animals and the enclosure, because reptiles can carry salmonella.

Saiba mais: Quarentena e higiene

Reprodução

MATURIDADE SEXUAL E SEXAGEM

In this genus, males have a slightly larger head and weigh slightly more than females. Sex is hard to determine in juveniles, and a vet with experience in reptiles can help. Sexual maturity is not documented for *Abronia fimbriata*; *Abronia graminea* becomes sexually mature at 2-3 years of age, once fully grown. Do not put a female into breeding until she is in good condition.

ACASALAMENTO

Mating is not described for the species itself. In *Abronia graminea* it takes place from July to December, most often in autumn. The male grabs the female by the neck, and the pair can stay together for up to a day. Introduce the male to the female, keep watch, and separate them at any sign of injury. Cooler nights and slightly more humidity in autumn match the season in the wild.

POSTURA E NINHADAS

The species gives birth to live young and does not lay eggs. Gestation lasts 6-8 months; this figure is borrowed from the genus. The female visibly gains weight and develops calcium patches on the sides of the jaw in the last part of gestation, and she needs plenty of food and calcium. In the genus the young are most often born from March to June, and the female has at most one litter a year. The litter size is based on a single known litter of 4 young.

INCUBAÇÃO

There are no eggs to incubate; gestation lasts 6-8 months. Keep the female calm in a cool, humid and ventilated enclosure with hiding places. The female does not eat her young, but other adults may, so move the young or the other animals if several share the enclosure.

CRIAÇÃO DOS FILHOTES

The young have a broad, light brown dorsal stripe and measure about 3 cm from snout to vent. They have the same requirements as the adults, but are far more vulnerable to heat: above 29 °C can kill them. Keep them in enclosures like the adults', ideally in small groups of two or three, so that they can avoid each other. Check that every young animal is eating.

Offer small crickets, fruit flies, small grasshoppers and fly larvae for the first three to four months. Dust with calcium every time, and give as much natural light as possible. Feed daily, but do not offer more insects than the young can eat.

Saúde e erros comuns

The species is hardy when temperature, humidity and ventilation are right, and most problems are caused by faults in the set-up. The typical problems are:

- Overheating, especially in juveniles. If the heat rises above 29-32 °C without shade, the animal can die quickly.
- Dehydration from air that is too dry and too little misting. The signs are sunken eyes, wrinkled skin and lethargy.
- Mould, skin fungus and respiratory infection from stagnant, damp air and too little ventilation.
- Metabolic bone disease from too little UVB and calcium, especially in juveniles and pregnant females.
- Parasites and mites. New animals should be quarantined for at least three months, and faeces should be examined.
- Bite and claw wounds from fights between animals kept together.

A healthy animal has clear eyes, a plump tail, clean skin and calm breathing with the mouth closed. If the animal does not eat, loses weight or breathes with its mouth open, it should see a vet with experience in reptiles. Weigh the animal regularly.

Pergunte sempre a quem entende do assunto

Este guia é um bom lugar para começar, mas não substitui a experiência. Os animais diferem, e boa parte do que mais importa se aprende com quem cria a espécie há anos. Converse com um criador, um tutor experiente ou um veterinário que conheça répteis e anfíbios antes de ter o animal - e de novo se algo parecer errado.