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ANGUIDS

Banded Arboreal Alligator Lizard

Abronia taeniata

Abronia taeniata is an arboreal alligator lizard with distinct dark crossbands from the mountain forests of eastern Mexico. 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 Vulnerable in the wild and is best suited to experienced keepers.

Family: Anguidae Former name: *Gerrhonotus taeniatus*

KEY FACTS

THE ANIMAL

Adult size	**25-35 cm** total length incl. tail
Lifespan	**10-20 years**
Active	**By day**
Lifestyle	**Arboreal**
Habitat	**Montane forest**
Difficulty	**Experienced**

CARE

Min. enclosure	**50 × 50 × 75 cm** L × W × H for 2 adults
Temperature, day	**20-27 °C**
Basking spot	**26-30 °C**
Temperature, night	**10-18 °C**
Humidity	**60-80%**
Water	**No water dish**
UVB	**Recommended** Ferguson zone 2
Diet	**Insects and worms/snails**
Kept	**Singly or in pairs**

BREEDING

Reproduction	**Live-bearing**
Sexually mature	**24-36 months**
Litter size	**3-10 young**
Clutches per year	**1**
Gestation	**180-240 days**

PROTECTION AND PAPERWORK

CITES	**Appendix II**
EU annex	**Annex B**
IUCN	**Vulnerable (VU)**

About the species

Abronia taeniata is a robust alligator lizard with a triangular head, keeled scales and a long, prehensile tail. Adults of both sexes have distinct dark crossbands across the back, and the bands can merge along the middle of the back. Juveniles and subadults are also banded. The species name comes from the Latin taenia, \"band\", and refers to the crossbands.

The head and body measure at most about 14 cm, and females typically measure 9-10 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 species was described in 1828 by Arend Friedrich August Wiegmann under the name *Gerrhonotus taeniatus* and is one of the longest-known species in the genus. In northern Puebla and Veracruz its range overlaps with that of *Abronia graminea*. Many intermediate forms occur here, and only the colour of adults separates the species with any reliability, so juveniles and many females cannot be identified with certainty. It is also possible that *A. taeniata* in reality covers several species. The origin and identification of the animals should therefore 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.

Distribution and habitat

Abronia taeniata lives in the mountains of eastern Mexico: south-western Tamaulipas, San Luis Potosí, Querétaro, Guanajuato, Hidalgo, northern Puebla and Veracruz. The type locality is restricted to El Chico in Hidalgo.

In northern Puebla and Veracruz the species overlaps with *Abronia graminea* in a belt of about 100 km. Here it lives at 1,810-2,090 m. The range is fragmented, because mountain forest occurs only at certain elevations.

> **Native range:** Mexico.

HABITAT

Abronia taeniata is a diurnal, arboreal animal of mountain forest. It lives in large trees with many epiphytes such as moss, ferns, orchids and bromeliads, which provide humidity, shelter and prey. The species can also manage in large, isolated trees in fields and orchards close to forest. In forest with few large epiphytes it takes shelter on the ground in bad weather.

The climate is cool and humid, with mist and heavy rainfall, and the difference between day and night is large. The animals bask in the morning and early forenoon. In winter and in bad weather several animals gather in hollow trees and vertical rock crevices, and up to 15 adults and juveniles can lie together in one hollow tree. In hot spells they retreat into the shade under thick moss.

The species is assessed as Vulnerable (VU) by the IUCN, and the population is declining. Forest clearance for agriculture and charcoal and illegal collection for the trade put pressure on the genus.

Read more: Humidity, misting and ventilation

Care

THE ENCLOSURE

Care of *Abronia taeniata* 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.

Read more: Heat and temperature

TEMPERATURE

Abronia taeniata 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.

HUMIDITY AND WATER

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.

LIGHTING AND 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.

Read more: Lighting and UVB

FEEDING

Abronia taeniata 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.

Read more: Feeder animals: keeping and breeding Read more: Calcium, vitamins and supplements

BEHAVIOUR AND HANDLING

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.

In the wild several animals may share shelter in winter, but that does not make it safe to keep several adults together in an enclosure.

Read more: Quarantine and hygiene

Breeding

SEXUAL MATURITY AND SEXING

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 taeniata*; *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.

MATING

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.

EGG-LAYING AND CLUTCHES

The species gives birth to live young and does not lay eggs. Gestation has not been measured for the species; in the genus it lasts 6-8 months. 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. A litter is 3-10 young.

INCUBATION

There are no eggs to incubate. Gestation lasts 6-8 months, and that is the figure given in the specification box. 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.

REARING THE YOUNG

The young are born with dark crossbands 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 or every other day, but do not offer more insects than the young can eat.

Health and common mistakes

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.

Read more: Common diseases and signs of illness

Always ask someone who knows

This guide is a good place to start, but it cannot replace experience. Animals differ, and much of what matters most is learned from people who have kept the species for years. Talk to a breeder, an experienced keeper or a vet who knows reptiles and amphibians before you get the animal - and again if anything looks wrong.