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Alligator Lizards (Elgaria spp.) and (Gerrhonotus spp.)

Surly Lizards with an Attitude

Alligator lizards of the United States and Mexico comprise of approximately two to three genera of primarily diurnal (active during the day) and terrestrial lizards. They earn their name "alligator" lizards from their large, keeled dorsal and lateral scalation and osteoderms which lends to them resembling alligators, or other crocodilians. These lizards can be quite variable in color depending on the species, but generally have a brown, yellowish, gray, to greenish-yellow or olive brown ground color with several (up to 9 to 13) darker dorsal and lateral crossbands present. Alligator lizards also have somewhat thickened, elongated bodies with reduced limbs, flat, wedge shaped heads, keeled scales on the dorsum, sides, and legs, and distinct skin folds along their sides. These lizards also use their somewhat elongated bodies to move via lateral undulation through the substrate and vegetation. As with many other lizard species, alligator lizards can also drop their tails through caudal autotomy, which momentarily startles and/or distracts the potential predator long enough for the lizard to make an escape. A new tail regenerates after several weeks, although it is somewhat more vestigial than the original. Alligator lizards can be a pugnacious genera of lizards when disturbed, often hissing, gaping, and inflating their bodies to appear larger, and may also bite if more closely provoked. Nevertheless, alligator lizards can make for hardy and undemanding pet lizards with big personalities that are sure to not disappoint!

Taxonomy

Life: All living, physical, and animate entities

Domain: Eukaryota **Kingdom:** Animalia

Phylum/Sub Phylum: Chordata/Vertebrata

Class: Reptilia
Order: Squamata
Suborder: Lacertilia
Infraorder: Diploglossa

Family: Anguidae

Subfamily: Gerrhonotinae **Genus:** Elgaria and Gerrhonotus

Species: *Elgaria spp.** and *Gerrhonotus spp.** **Taxonomy subject to change and revision.*

Lifespan and Longevity

If provided the proper care, alligator lizards can attain potential longevity of 10 to 15 years or more in captivity.

Species

The genus Gerrhonotus consists of five species, including: the Farr's alligator lizard (*G. farri*), Texas alligator lizard (*G. infernalis*), smooth headed alligator lizard (*G. liocephalus*), Lugo's alligator lizard (*G. lugoi*), and pygmy alligator lizard (*G. parvus*). The genus Elgaria, or the Western alligator lizards includes: *E. cedrosensis* (no common name), northern alligator lizard (*E. coerula*), Madrean alligator lizard (*E. kingii*), southern alligator lizard (*E. multicarinata*), Panimint alligator lizard (*E. panamintina*), San Lucan alligator lizard (*E. paucicarinata*), and *E. velazquezi* (no common name).

Distribution and Habitat

Alligator lizards are relatively small to medium sized anguid lizards consisting of two genera, and twelve species collectively in North America, ranging from northern Mexico and the south central United States (*Gerrhonotus spp.*) to the coastal-Pacific western United States from central California to southern British Columbia in Canada (*Elgaria spp.*). Within this range, alligator lizards occupy primarily terrestrial to semi-arboreal environments, including in a variety of semi-dry/semi-arid environments including semi-deserts, chaparral, grasslands, open woodlands, and even suburban areas, where they use burrows, rocks, logs, tree trunks, downed or low vegetation and other debris on or near the ground to thermoregulate, forage, and seek refuge.

Origin/History

Elgaria spp. Gray, 1838; Gerrhonotus spp. Wiegmann, 1828.

The North American genera of alligator lizards have occurred in the pet trade for many decades. Gerrhonotus spp. has been reported to have been kept and even bred in captivity since the 1970's, although most Gerrhonotus spp. and Elgaria spp. that are available would probably be wild-collected.

Experience Level Required

Novice/Beginner to Intermediate/Moderate.

Size

Adult alligator lizards can vary in size depending on the species from 7.0 to 14.0 inches in total snout-to-tail length. Some species can reach larger sizes of up to 24.0 inches or slightly greater in total snout-to-tail length. Maximum snout-to-vent length varies depending on the exact species, but ranges from about 4.3 to 7.0 inches snout-to-vent length (SVL) in *Elgaria spp.*, and about 2.7 to 7.9 inches snout-to-vent length (SVL) in *Gerrhonotus spp.*

Housing and Enclosure

Enclosure System: Primarily Terrestrial. Housing must be sealed and escape proof. Hatchling to juvenile alligator lizards can be housed in a 10 to 15 gallon terrarium or enclosure. Adult alligator lizards require a minimum of a 20 to 40 gallon long terrarium or enclosure. Hatchling and adult alligator lizards can be maintained on a loose substrate that allows for burrowing that can retain some levels of moisture and humidity, and can include sphagnum moss, sphagnum and fir mixtures, cypress mulch, orchid bark, or chemical free potting soil. Provide a large, shallow dish of clean water, and change and clean it every several days, or sooner if fouled. Misting them at least once to twice weekly with lukewarm water for 15 to 20 minutes can also help raise their hydration. Provide ample basking and hiding opportunities by providing artificial foliage, driftwood, rocks, or logs.

Temperature, Lighting, and Humidity

For basking, create a thermal gradient (or a warm side) in the cage/enclosure with an appropriate

sized under tank heating pad, ceramic, or radiant heat emitter. Ideal temperatures for these lizards range from 70 to 80 degrees F on the cool side/ambient temperature and around 85 to 90 degrees F on the warm, basking side. Nighttime temperatures can be allowed to drop to 65 to 75 degrees F. For basking, create a thermal gradient (or a warm side) in the cage/enclosure with an appropriate sized under tank heating pad, ceramic, or radiant heat emitter. Providing the correct amounts of UVA/UVB overhead incandescent and florescent lighting, and calcium-tophosphorus ratios is essential for ensuring the health and overall well-being of alligator lizards in captivity. Without UVA/UVB, or adequate amounts of it, they can be susceptible to the abnormal bone growth and development known as Metabolic Bone Disease (MBD), and other health and development maladies. Also be sure to spot clean the enclosure for urates, feces, or uneaten food at least twice per week. Be sure to periodically replace the substrate, clean, and disinfect the enclosure and its furnishings at minimum every 2 to 3 months. More specific lighting, heating, and humidity product suggestions and recommendations that can best suit one's needs, as well as those of one's animals can be given as well. Alligator lizards should be maintained at relatively low to moderate humidity levels overall ranging from at, or within 30 to 60%, which may also vary depending on the exact species.

Feeding, Diet, and Nutrition

Insectivorous to Carnivorous; In the wild, alligator lizards are primarily insectivorous, meaning they will eat a variety of insects and other invertebrates. They may also eat eggs, and smaller vertebrates as well such as small rodents, birds, or other reptiles.

In captivity, feed alligator lizards a variety of appropriately sized feeder insects such as crickets, roaches, mealworms, superworms, and waxworms. They can also be given pre-killed rodents on occasion, but provide these sparingly. Feeder insects should be gut-loaded in order to increase their optimal nutritional value. Alligator lizards also require additional calcium and vitamin D3 supplementation 1 to 2 times weekly or as otherwise directed for optimal health and development. This is in order to prevent Metabolic Bone Disease (MBD) and other growth and nutritional deficiencies. Their feeding frequency will depend on the age, size, and overall health of your animal. Use care as to not overfeed them, as obesity and other health related issues can become an issue. More specific dietary and supplementary product suggestions and recommendations that can best suit one's needs, as well as those of one's animals can be given as well.

Handling

When first captured or handled, alligator lizards can be known to be quite pugnacious, and able to deliver a surprisingly strong bite. With regular time, handling, and interaction, however, these lizards can become quite tame and accustomed to being hand fed and short periods of handling, but are still not an overly hands on pet lizard genera. As with any animal though, care should be taken to avoid dropping or overly restraining them to prevent injury.

Also be sure to practice basic cleanliness and hygiene associated with proper husbandry after touching or handling any animals or animal enclosures to prevent the possibility of contracting salmonellosis or any other zoonotic pathogens

Contact

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Disclaimer: Note that the information provided in these, or any care sheets, are not intended to be all-exhaustive, and further research and care should always be sought and provided when it comes to any species one may prospectively be interested in. These care sheets are also not intended to serve as substitutes for professional veterinary medical care and husbandry should any animal require it. Always seek proper and professional veterinary care for any animal should the need arise, and be

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