

Collared Lizards

Crotaphytus collaris



LIFE SPAN: 5 – 10+ years

AVERAGE SIZE: 8 – 14 inches

CAGE TEMPS: Day Temps – 75-90 °F
Basking – 95-104 F
Night Temps – 70-85 F

HUMIDITY: 80%

* If temp falls below 75° at night, the enclosure may need supplemental infrared or ceramic heat.

WILD HISTORY: Native to the deserts, grasslands and prairies of the U.S., from Missouri to California and south to Mexico.

The collared lizard is the state lizard of Oklahoma.

PHYSICAL ATTRIBUTES: The collared lizard gets its name from the two black bands on its neck that resembles a collar. The body is green and the head can be a bright yellow.

Males are more vividly colored than females, having a green or blue coloration with bands and small white spots, while the females are paler and grayer. A male's throat will also be brightly colored, often blue, and green and sometimes even orange.

Females are generally a light tan or gray.

The belly of a collared lizard is much lighter than the back.

Collared Lizards are one of the fastest lizards, able to reach speeds of up to 16 miles per hour. They can run on their hind legs, holding their bodies off the ground at a 45-degree angle with tail and forelimbs raised, giving them the appearance of a miniature T-Rex. They will often wave their tails in the air - like a cat – before grabbing prey. Unlike many lizards, the collared lizard cannot grow a new tail if its original one is broken off.

NORMAL BEHAVIOR & INTERACTION: Collared lizards are generally docile and intelligent lizards that will tolerate some handling when tamed. They may be aggressive to one another, and care must be taken to introduce cage mates slowly and with apprehension. There is no guarantee they will get along well.

NOTE: Collared lizards *can* be housed together, but ample space must be made available for each lizard.

Cage mates are never guaranteed to get along well, so it is always best to begin with only one lizard.

DO NOT house collared lizards with other species due to the differences in care, temperatures, and the fact that some species can be highly stressed in the presence of other species. Each species may also harbor different parasites/protozoans/bacteria (even a healthy reptile harbors a small amount at all times), which may make each other ill.

FEEDING: Collared lizards are largely carnivorous, but will eat some vegetation.

PROTEIN: Protein sources such as: gut-loaded crickets, mealworms, cockroaches, kingworms, butter worms, earthworms, wax worms and pinkie mice dusted with a supplement should also be part of their diet. Small adult mice can be fed when the lizard is larger. Feed **ONLY** frozen thawed mice, never live. Do not feed mice often, only about once a month.

Wild caught insects should never be fed, since they can carry disease. All insects should be gut loaded (fed a nutritious diet about 24-hours before being offered to your lizard – see our cricket care sheet).

Be careful to feed the proper size prey for your lizard's size. A good rule of thumb is that a cricket should be never be larger than the distance between the lizard's eyes, or the distance from its eyes to its nose.

When feeding larger insects to your pet, try to make sure the insects have recently molted, as an insect with a large, hard exoskeleton is difficult to digest and may cause impactions.

LIGHTNING BUGS MUST NEVER BE FED, AS THEY ARE POISONOUS.

VEGETABLES: Dark leafy vegetables like collard and mustard greens, kale and red tip leaf lettuce are good for a lizard, as are clover, parsley, and broccoli, green beans, peas, squash, grated carrots and sweet potatoes. Spinach and iceberg lettuce should never be fed.

Fruits such as figs, kiwi, apples, raspberries, strawberries and melons can also be fed, but should not be given as often. Remember to wash vegetables thoroughly, then cut or shred to make it easier to ingest.

Remove any uneaten vegetables before turning the lights off at night.

Adults should be given insects 2-3 times a week, with salads on the rest of the days. Feed as many insects as the lizard can eat in 3-5 minutes.

All uneaten insects should be removed from the enclosure as they can bite your pet and cause injury, especially to the eyes. Some lizard owners find it easier to feed their pet in a separate enclosure, free of bedding and furniture, this way you can be sure your lizard eats all its insects, the prey cannot hide and the lizard will not pick up any bedding when grabbing prey and mistakenly ingest it along with the prey.

Commercially prepared diets are available, but they should never constitute the whole diet of your lizard. They can be left in the enclosure in case your pet is hungry between meals.

SHEDDING: Unlike snakes, lizards shed their skin in patches, not all in one piece. Your pet may become an overall dull color, and the skin over the eyelids may 'pop' at a certain point and make your lizard look like a bug-eyed bullfrog. Do not peel off the skin if it is not ready to come off. This can be dangerous and painful.

Most lizard species will shed every 4-6 weeks. If the enclosure environment is ideal, the keeper often has no idea that their pet has shed, as it will happen more quickly and the lizard will often eat its own shed skin.

In the wild, lizards have a much easier time with their sheds, as they are generally in a more naturally humid environment and have access to pools or bodies of water in which they can soak at will. Even lizards from arid areas find humid places to go during the shedding process, such as cold, moist burrows under the sand or caves.

The shedding process happens when the lizard's body begins to grow a new layer of skin; that new layer begins to separate from the old and a very thin layer of fluid forms between the two layers. If your pet's enclosure is too dry, this fluid layer will not form properly, making it difficult for your lizard to shed properly.

To create more humidity, the entire tank can be lightly spray misted twice a day during shedding time. Spray once in the morning and once later in the day. Make sure the later spray dries completely before lights go off for the night.

Some lizards may also benefit from a 'moist box' during shedding time. This can be a Tupperware-like container (with the cover on) containing a bed of moist reptile terrarium moss. The container should be big enough for the entire lizard to be inside with an entry door cut in the side just large enough for the lizard to come and go at will. Keep the moss moist but not watery, and place the box on the heating pad in the tank.

If your lizard still has a hard time getting the shed completely off its toes, tail or head; help him by spraying the area with water and gently massaging the skin until it peels off. If the retained shed is severe and cannot be removed easily, see your exotic veterinarian.

SUPPLEMENTS: Dust food with calcium supplement and vitamin supplements. As a rule, a growing juvenile's food (and a pregnant/gravid female's) should be dusted more often than an adult's. Follow your veterinarian's instructions for applying supplements to avoid over-supplementing food.

Our veterinarian recommends dusting insects with a good quality calcium supplement fortified with vitamin D3, 2-3 times a week. (Avoid using a calcium supplement with added phosphorous, unless specifically directed by your veterinarian, since this can promote kidney disease.)

Always consult your veterinarian for specific directions on supplementing your pet's food, since there are many variables that go into determining the best supplementing regimen for each given animal.

WATER: A large bowl of clean fresh chlorine-free water must always be available. Place it on the cool side of your lizard's enclosure. Change it daily, or as needed, as your pet will most likely bathe in it as well. Lizards will often defecate in their water bowl, as the water seems to have a laxative effect on lizards! All water given to lizards for drinking, as well as water used for misting, soaking or bathing must be 100% free of chlorine and heavy metals. (Not all home water filtration systems remove 100% of the chlorine and heavy metals from tap water). We recommend that you use unflavored bottled drinking water or bottled natural spring water; never untreated tap water. If tap water is used, you should treat it with a de-chlorinating treatment. Do not use distilled water, which can cause severe medical problems, since it lacks minerals that are essential to important body functions. If only tap water can be used, at least de-chlorinate the water. De-chlorinator is available in the pet store fish department A daily misting or two with chlorine-free water will also be appreciated. However, care should be taken not to allow the enclosure to become damp. Also, do not mist less than two hours before turning the heat lamps off for the day, as the droplets will not have proper time to dry and may contribute to respiratory disease.

SOAKING: Lizards can benefit greatly from a good deep-water soak at least once a week. A plastic tub makes a good lizard bathtub. Fill the container deep enough so the entire lizard's body can be submerged under water, but the head can

be out of water. The water should be nice and warm (about 68-70 degrees). Soak your pet for about a half hour at a time. This is especially helpful during a bad shed or when your lizard might be a bit constipated.

RECOMMENDED SUPPLIES:

40 – 100 gallon reptile tank with very secure mesh top with clips. (20 L (20x13) tank is acceptable for babies.)	Lg. dome and 100 watt bulb for 40 gal (36x18 tank) Lg. dome and 150 watt bulb for 75 gal (48x18 tank) (dome and 75 watt basking bulb for 20x13 baby tank)
Under tank heater – placed under same side of tank as basking light	Temperature / humidity gauge – do not stick to side of tank
At least one dry hide house	Shredded aspen bedding, newspaper or paper towels for the bottom of the tank
Large water bowl – big enough to soak in	Fluorescent UVB Bulb and housing

HOUSING & ENVIRONMENT: Lizards are ectothermic, or cold-blooded, which means they are dependent on the temperature of their immediate environment to regulate their body temperature. Therefore, we must create an environment with several heat gradients – warm on one end and cool on the other. With this set-up, your pet can go to either end depending on whether he needs to be warmer or cooler.

ENCLOSURE SIZE: The enclosure should be a solid glass sided tank long enough to create the two separate temperature gradients (warm and cool); a collared lizard tank should be at least 30-40 gallons or larger for an adult and at least 20L for a baby.

IT IS NOT TRUE THAT A LIZARD WILL ONLY GROW AS LARGE AS ITS ENCLOSURE!!

COVER: Make sure the cage has an escape-proof metal mesh top. It should fit snugly onto the tank and have strong clips locking it on. It is important that the top is METAL mesh, as you will place the heat lamp directly on top of this cover.

HEAT PAD: Reptile heat pads can be adhered directly onto the underside of the glass bottom of the tank. Stick the pad on the glass on one of the very far ends of the tank (opposite the water dish). For safety reasons, make sure to attach the rubber feet (contained in the box) at all four corners of the underside of the tank. This will allow air to circulate underneath the tank and prevent the heat from being trapped under the tank. Leave the heat pad ON 24 hours a day.

A human-grade heat pad may be used on the low to medium setting. Do be sure to allow for proper ventilation for safety reasons. **Be sure to purchase a heat pad without automatic shut-off, which are still available.

Heat pads specifically manufactured for reptiles and human-grade heat pads are safe to leave on 24 hours a day. DO NOT use reptile heat rocks. They heat unevenly and have caused severe thermal burns in reptiles and amphibians.

HEAT LAMP: Place the heat dome with the basking bulb on top of the cage directly over where the reptile heat pad has been placed on the underside of one end of the tank. The heat lamp should be turned on in the morning, and off at night. (See “Day/Night Light Cycles” below.

NOTE!! : Follow directions carefully with all products – READ THE INSTRUCTION SHEET!!

Always choose fixtures with ceramic sockets and be careful to choose the socket that is properly rated for the wattage bulb that you will be using. Do not place the fixtures by dry wood or flammable fabrics.

All heaters should be placed out of the reach of children and all pets – including cats and dogs.

Be very careful to make sure that your caged pet cannot reach and touch the heating device in its own cage. A thermal burn to the face or body can be painful and life threatening.

BASKING AREA: A warmer basking area matching the temperature listed at the top of this care sheet must be established on the warm side of the cage. This area is directly under the basking bulb and will be higher in the cage for arboreal species. The basking area should be the warmest area in the enclosure. Maintaining the proper temperature in this spot is extremely important to the health of your pet.

UVB LIGHT: Exposure to UVB (ultraviolet B) light is critical in allowing an animal to synthesize vitamin D3 in their skin and metabolize calcium in their body.

If an animal is not exposed to an adequate level of UVB light, it will gradually develop physical problems from the result of mineral deficiencies such as low blood calcium (hypocalcaemia), soft eggs (females), stunted growth and metabolic bone disorder, which can be fatal if left untreated. In addition, recent studies have linked sub-optimal vitamin D levels with poor immune system function.

All day-active (diurnal) indoor reptiles, amphibians, birds and hermit crabs should be allowed self-selected exposure to UVB lighting for up to 8-12 hours a day. This means they should be able to bask in the light but also get away if desired, much as they might in the wild. Many twilight-active (crepuscular) and night-active (nocturnal) species do get some

exposure to the sun and may also benefit from low levels of UVB, which helps regulate their photoperiod and vitamin D levels as well.

Please see our additional “UVB Lighting for Companion Birds and Reptiles” for specific instructions for your particular pet and the UVB bulb that we recommend for him or her.

HIDE HOUSE: Place a hide house inside the cage directly over where you have positioned the heat pad, and directly under the heat lamp above.

WATER BOWL: The large water crock can be placed on the opposite end of the cage, along with another hide house, if desired.

SUBSTRATE: We recommend a shredded aspen bedding since it will not cause impactions in the lizard if it is ingested by mistake *and* it is easy to clean – daily spot cleaning becomes easy by just removing the soiled portion of aspen.

Newspaper, paper towels can also be used.

If “reptile carpeting” is used, it **MUST** be kept extremely clean. The carpeting can foster the growth of bacteria and fungus, which can in turn be very dangerous to your pet. If you insist on using the carpet, purchase two so you can interchange them regularly.

Large rocks and pebbles can also be used for your collared lizard, but the enclosure will be a bit harder to keep clean.

BRANCHES & PLANTS: Collared lizards love to climb, and additionally must have a basking area on the warm side of the tank. Choose branches that your lizard can climb on safely and lie on comfortably. The basking area can consist of branches and a platform positioned under the basking light so the lizard sits about six inches under the lamp. Sand blasted grape vine branches are available in the pet store; these serve as good sturdy climbing branches. Be careful of bringing in branches from outside, as they can house parasites.

TEMPERATURES: Cage temperatures should be monitored daily and kept at the temperatures listed at the top of this page. Use your reptile thermometer to check the temperatures in different places in the cage regularly to make sure they continually match the listed proper temperatures.

* If the room temperature falls below 75 degrees at night, a supplemental infrared or ceramic heat fixture may be necessary. (These fixtures do not emit a light spectrum that is visible to the lizard, so it will not disturb him at night, but they **WILL** provide the necessary supplemental heat.)

If your lizard does not receive the proper heat at the proper temperatures along with UVB light, he may become sick with issues such as respiratory disease or MBD and may stop eating, as lizards have a hard time digesting their food without proper heat and light.

DAY/NIGHT LIGHT CYCLES AND HEATING: All lizards must have distinct day and night periods in their enclosure to maintain their biological rhythms. Collared lizards need 8-12 hours of daytime and 8-12 hours of nighttime. However, as the daylight hours change seasonally outside, daylight hours inside the tank should reflect the same.

The day period must be light, and the night period must be dark.

A timer should be used to set day/night periods.

HABITAT MAINTENANCE: Daily maintenance should consist of spot cleaning by removing soiled substrate, cleaning water bowl thoroughly and wiping glass clean.

The entire tank should be cleaned thoroughly at least once every month with:

- A mild dishwashing liquid in warm water (make a weak dilution),
THEN
- Vinegar & water (1:8)
OR bleach and warm water (1:32)
- Cage “furniture” should also be scrubbed clean with the same dilution.
- **RINSE OFF ALL SOAP AND BLEACH THOROUGHLY WITH PLAIN WATER BEFORE RE-INTRODUCING YOUR PET TO ITS ENCLOSURE!!**
- **NEVER MIX VINEGAR AND BLEACH – IT CREATES A TOXIC SOLUTION**
- **NOTE:** water used for cleaning does not need to be de-chlorinated, as your pet will not be drinking it or bathing in it.

GROOMING & HYGIENE: To reduce the risk of contracting and spreading salmonella poisoning, all handlers should wash their hands after handling any lizard.

SIGNS OF A HEALTHY ANIMAL: smooth, even skin; no traces of mites (small, reddish brown spots around nostrils, near ears and eyes); clear, bright eyes; rounded, full body; strong, even, smooth jaw line; regular record of healthy feeding and defecating schedule.

It is very important to keep a journal for each animal that records feeding, refusing, defecation, shedding, unusual behavior, changes in behavior and dates of bulb changes. This will help your veterinarian trouble-shoot any health issues.

We recommend physical exams every year or two years with an exotic pet veterinarian for pet lizards, reptiles and amphibians. If your vet sees your pet regularly, many common conditions that afflict pet lizards, reptiles and amphibians can be caught and treated early. If not caught early enough or if left untreated, many of these conditions can become far worse if not fatal.

SIGNS OF ILLNESS: Irregular scales; small reddish brown spots (mites) around mouth, eye area, ear area; irregular jaw line, 'dents' in mouth with (or without) cottage cheese-like material (mouth rot); cloudy eyes or dull colored body when not in a shed; dark patches on body; thinned body; irregular feeding and defecating habits. Limp, lethargic, sunken eyes; obvious bite marks or wounds from cage mate or prey.

Red, fluid filled patches may indicate thermal burns.

SOME COMMON PROBLEMS INCLUDE:

HEALTH ISSUE:	SYMPTOMS:	TREATMENT:
Calcium/phosphorus imbalance; MBD	Failure to grow, weakness, limb deformities and fractures, seizures	See exotic pet veterinarian, ensure optimal diet with proper calcium supplementation and UV light
Intestinal parasites (coccidia and pinworms are common)	Failure to grow, loss of appetite, abnormal stools	See exotic pet veterinarian (fecal parasite evaluation and appropriate medication)
Egg binding in females	Abdominal enlargement, decreased appetite, difficulty defecating	See an exotic pet veterinarian immediately.

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