

# Green Anole

*Anolis carolinensis*



**LIFE SPAN:** 4-8 years

**AVERAGE SIZE:** 6-9 inches

**CAGE TEMPS:** Daytime – 75-80° F  
Basking – 85-90° F  
Cool side – 65-75 ° F

**CAGE HUMIDITY:** 60%-70%

- If temp falls below 65° at night, may need supplemental infrared or ceramic heat.

**WILD HISTORY:** The green anole is native to the Southeastern United States. Other anole species are also found wild in the U.S.; however these are non-native species, most likely released pets that have survived and bred.

Anoles are mainly terrestrial; inhabiting low lying bushes and plants. They can also be found basking on rocks and other warm spots out in the open. If you've ever tried to sneak up and catch these critters in the wild, you know how fast they can be!

**PHYSICAL CHARACTERISTICS:** The green anole is generally a green color, but is sometimes brown. If your anole is continually brown for an extended period of time, s/he may be ill and/or your enclosure may be too cool. Males have a more distinct "dewlap", which is the flap of skin extending off the throat. When challenged, excited or stressed; the anole will puff his dewlap out to show how "large and in charge" he is!

**NORMAL BEHAVIOR & INTERACTION:** Some anoles can be tamed to sit on the hand, but being out of the cage generally stresses them. Stress can in turn cause illness.

Anoles have a strong bite for a small lizard. Also, when chased by a predator and grabbed by the tail, they will drop their tail (which will continue to wiggle to distract the predator) so they can escape.

Green anoles can change their color from bright green to dark brown, which has sometimes led people to confuse them with chameleons. They are in fact a very different species than chameleons, which are from a different part of the world. The green anole is more closely related to the iguana.

When cold, depressed or ill, green anoles will turn brown to absorb heat more efficiently and conversely, turn a lighter shade of green when it is extremely hot to reduce the rate of heat absorption. Also, after two male green anoles fight for dominance, the winner will turn bright green, and the loser brown.

**NOTE:** Do not house green anoles with other species due to the differences in environment, 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:** Insectivorous – live prey. Feed every other day.

Protein sources such as: gut-loaded crickets, small mealworms and wax worms dusted with a supplement should make up the anole diet.

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 never be larger than the distance between the lizard's eyes, or the distance from its eyes to its nose.

Feed as many insects as your lizard will eat in 3-5 minutes. If they do not eat all the insects, they can be left inside the enclosure, just make sure you put enough cricket food and moisture (orange slice or other source) into the enclosure so the crickets don't begin to chew on the anoles. It is normally recommended that excess, uneaten crickets be removed from a reptile enclosure, but considering the fact that your enclosure may be thickly planted, it may be impossible to remove them without stressing the lizards.

Try to introduce the crickets slowly, so you can watch your lizards eat them before introducing more.

**SHEDDING:** Unlike snakes, lizards shed their skin in patches, not all in one piece. Your pet will 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, reptiles 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 reptiles 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 reptile 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, as the droplets may not have time to dry and may contribute to respiratory disease.

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 a given animal.

**WATER:** A large bowl of clean fresh chlorine-free water must always be available. (De-chlorinator is available in the fish department). Place it on the cool side of your reptile’s enclosure. Change it daily, or as needed, as your pet will most likely bathe in it as well. Anoles will most often drink from the droplets of water that have been sprayed into the cage, so do be sure to spray the inside of the cage 2 times a day. All water given to reptiles 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. De-chlorinator is available in the pet store fish department. If you do not want to chemically de-chlorinate the water, you can leave an open container of tap water out for at least 24 hours. 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.

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 may not have time to dry and may contribute to respiratory disease.

## **RECOMMENDED SUPPLIES:**

\*20 gallon high (or larger) reptile tank with very secure mesh top with clips.

\*Light dome and 50 watt bulb for a 20H tank

\*Under tank heater – placed under same side of tank as basking light

\*Temperature / humidity gauge – do not stick to side of tank

\*Dry ‘hide house’

\*Coconut fiber substrate

\*Large water bowl – big enough to soak in

\*Fluorescent UVB Bulb and housing

**HOUSING & ENVIRONMENT:** Your lizard(s) need a warm, humid environment in their enclosure. A twenty-gallon high glass tank (for two) with a metal mesh cover will work fine.

If you lose too much humidity through the metal mesh cover, you can tape plastic sheeting (thick plastic bag, preferably translucent) over part of the mesh. However, be sure NOT to block the UVB light with the plastic, as it will filter out all the important rays before they reach your pet(s). Also, be sure that any hot lights do not come in contact with the plastic, or sit too closely to the plastic.

**ENCLOSURE SIZE:** The enclosure should be a solid glass sided tank long enough to create the two separate temperature gradients (warm and cool); a green anole tank should be at least a 20 gallons high or larger for one to two adults.

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

**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 it directly 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.

Heat pads specifically manufactured for reptiles are safe to leave on 24 hours a day (which should be done for these enclosures). DO NOT use reptile heat rocks. They heat unevenly and have caused severe thermal burns in reptiles. 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.

\*\*\* Although your anole will most likely NOT spend much time on the floor of the enclosure, the heat pad will help contribute to the overall humidity and ambient temperature of the enclosure.

**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.

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 D<sub>3</sub> 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. Placing an air stone (connected to an air pump) will create bubbles in the water which can contribute to humidity in the enclosure and make it easier for the anoles find their water source.

**SUBSTRATE:** We recommend a loose coconut fiber substrate, available in the reptile department and made by several companies. It is made from the husks of coconuts. This substrate is ideal for anoles, as it will help hold humidity in and is also a perfect substrate for plants. Keep the substrate slightly damp, but not watery. Placing large, smooth pebbles over the surface of the bedding will prevent the lizard from picking up and consuming the coconut fiber by accident when hunting prey.

**BRANCHES & PLANTS:** Anoles 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. Live plants can help increase the humidity in your anole enclosure. Be sure to include only reptile safe plants such as pothos, aloe, philodendrons, spider plants, ficus, and dracenae. They can be planted directly into the enclosure substrate

**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 65 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 anole, 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 and UVB, he may become sick with issues such as respiratory disease and will probably stop eating, as lizards have a hard time digesting their food without proper heat and light.

**DAY/NIGHT LIGHT CYCLES AND HEATING:** All reptiles must have distinct day and night periods in their enclosure to maintain their biological rhythms. Anoles 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 couple months with:

- A mild dishwashing liquid (a weak dilution) in warm water, 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 reptile.

**SIGNS OF A HEALTHY ANIMAL:** smooth, even skin; no traces of mites (small, reddish brown spots around nostrils, near ears and eyes); clear eyes, rounded, full body; strong, even, smooth jaw line; bright eyes; 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 reptiles and amphibians. If your vet sees your pet regularly, many common conditions that afflict pet 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 skin; 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; thinned body; irregular feeding and defecating habits. Limp, thin body, lethargy, sunken eyes, pinkish patches or spots on belly or sides; obvious bite marks or wounds from cage mate or prey. Red, fluid filled patches may indicate thermal burns.

## **SOME COMMON PROBLEMS INCLUDE:**

<b>HEALTH ISSUE:</b>	<b>SYMPTOMS:</b>	<b>TREATMENT:</b>
<b>Calcium/phosphorus imbalance</b>	Failure to grow, weakness, limb deformities and fractures, seizures	See exotic pet veterinarian, ensure optimal diet with proper calcium supplementation and UV light
<b>Intestinal parasites (coccidia and pinworms are common)</b>	Failure to grow, loss of appetite, abnormal stools	See exotic pet veterinarian (fecal parasite evaluation and appropriate medication)
<b>Skin issues (fungal dermatitis is common)</b>	Discoloration (esp. blackening) of the skin	Call exotic pet veterinarian. topical and systemic medications, Optimizing enclosure heat & humidity

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In conjunction with Pet Supplies "Plus"  
10882 Main Street Clarence, NY 14031  
Ph (716) 759-0144  
[www.buffalobirdnerd.com](http://www.buffalobirdnerd.com)