

CSI - JURASSIC

Investigating the Exotic



Dr. Walton Age 5

Meet Nancy

- Dr. Walton's 1st pet
- Got when he was 7
- is now 55
- Can live to be over 100
- Is in Dr. Walton's will.





TROOPER



THE LANGLEY 66



WHISTLER SLED DOG INVESTIGATION





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NEWS

Close to 100 snakes found in Mission home



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Venomous snakes found in package at Canada Post distribution centre in B.C.



Canada Post vehicles sit outside a sorting depot in the Ville St-Laurent borough of Montreal, in this June 6, 2011 photo. (Graham Hughes / THE CANADIAN PRESS)

REPTILE WORLD

February 10, 2015 11:57 am

Updated: February 10, 2015 6:01 pm

Drumheller's Reptile World closing after SPCA seizure

By Melissa Gilligan and Erika Tucker Global News

Comments 29 Facebook 2.6k Twitter Email Print ...

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SERPENTARIUM STRIFE

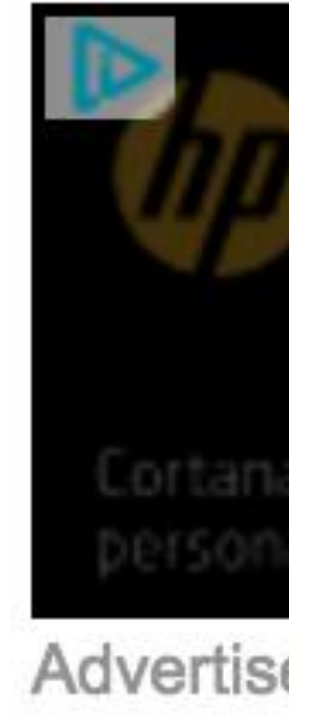
Fate of hundreds of reptiles rests with court after Serpentarium owner's death

JOSH O'KANE

The Globe and Mail

Published Monday, Jun. 20, 2011 8:51PM EDT

Last updated Monday, Jun. 20, 2011 11:21PM EDT



'Reptile Guy' under investigation after gator move



Missing large venomous snake captured in Ajax

The snake — identified as a copperhead, a species not native to Canada — was found Wednesday evening by the experts at the Indian Reptile Zoo.



Theft of more than a dozen snakes from Ontario home was likely targeted: police

A variety of snakes, many of them venomous and deadly, were stolen in a targeted heist on Saturday evening, police say.



Venomous snake found in truck in Niagara Falls

African coral cobra being transported to reptile zoo

NEWS Aug 28, 2018 by [Melinda Cheevers](#) ✓ Niagara This Week - Niagara Falls

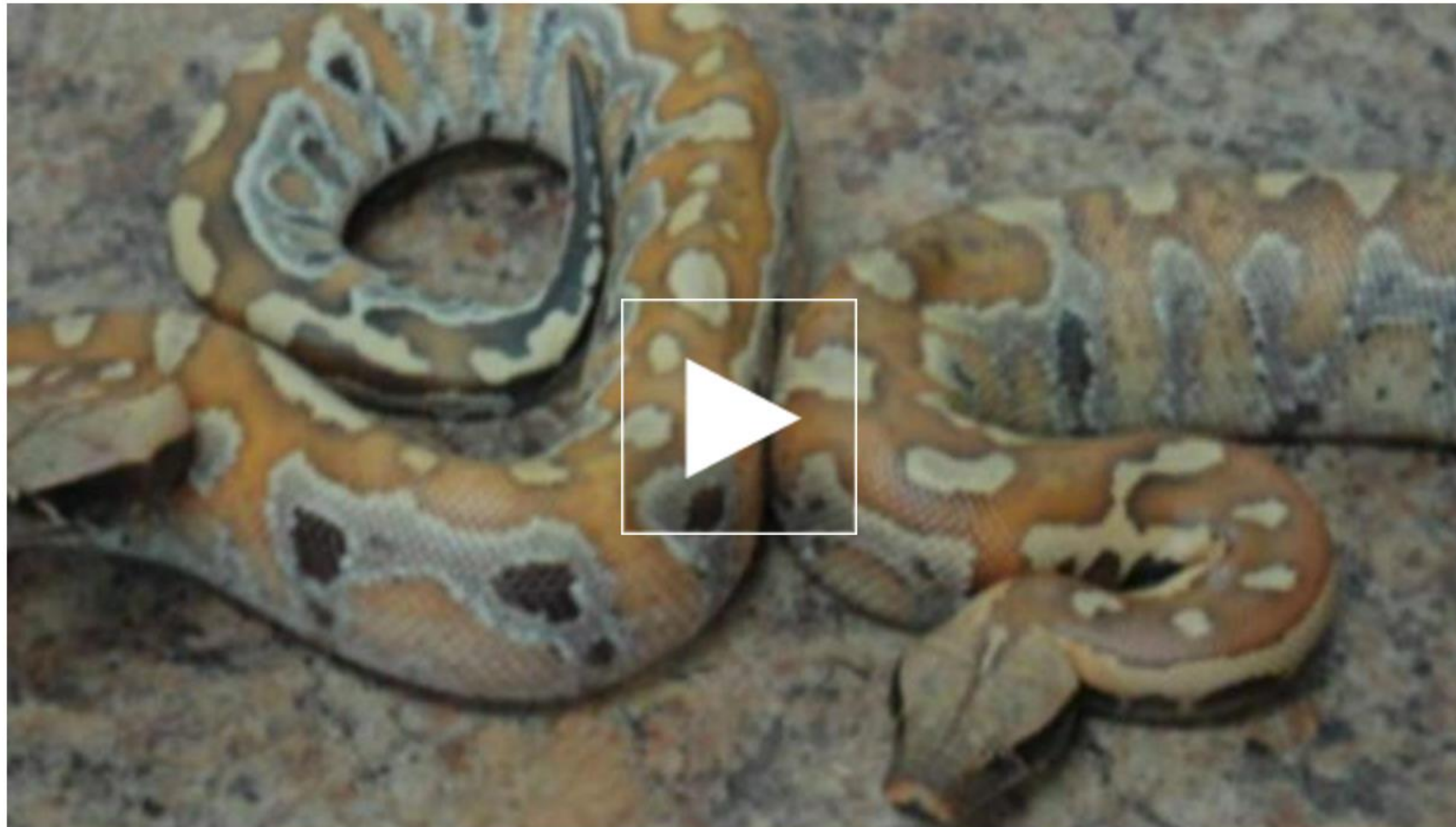




Snake kills 2 N.B. boys after escaping store, RCMP say

African rock python reportedly slithered through ventilation system into apartment

CBC News Posted: Aug 05, 2013 2:53 PM AT | Last Updated: Aug 06, 2013 6:23 AM AT



Kids dead after snake escape 3:16

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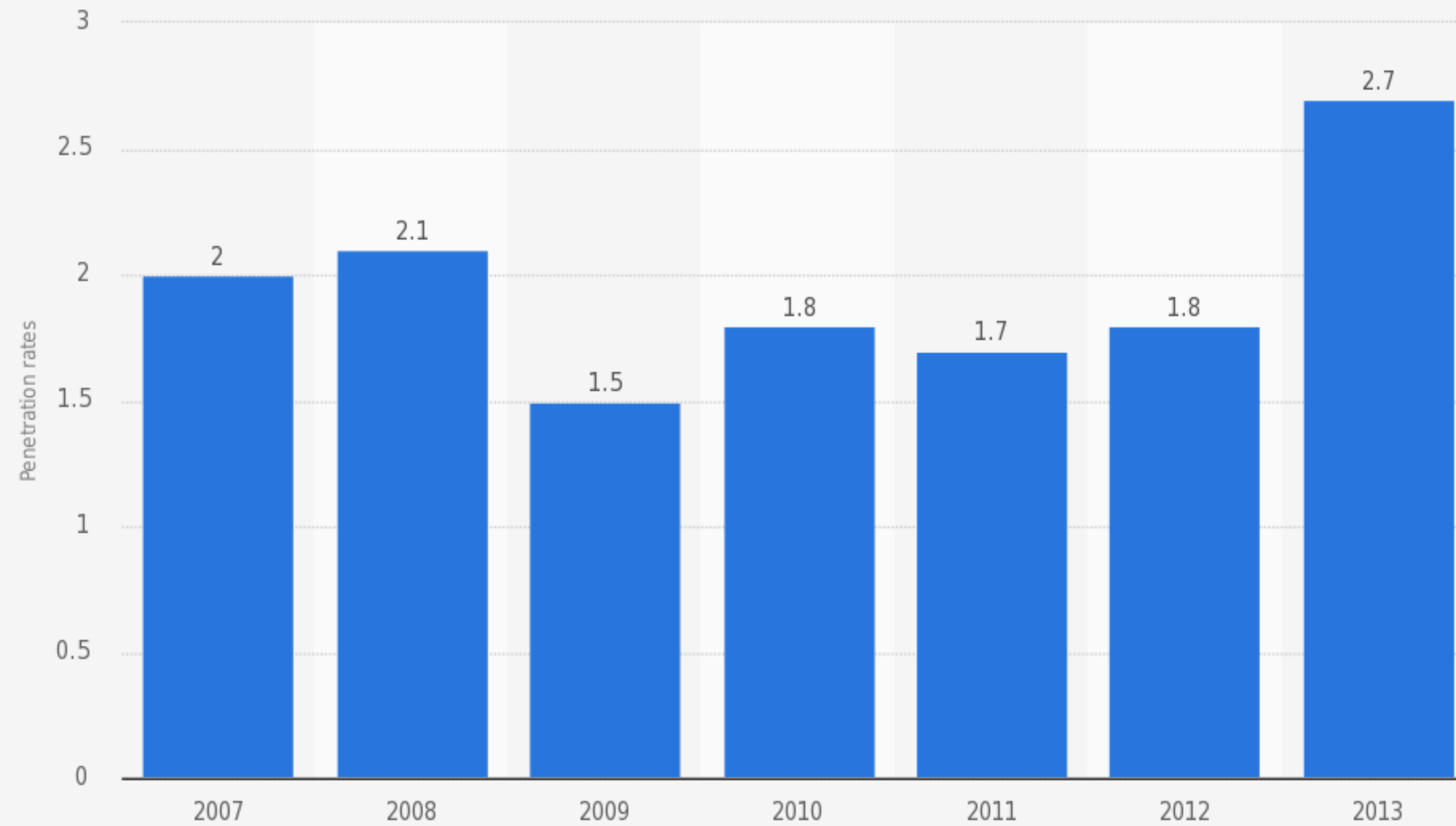




Pets in Canada

- Fifty-seven percent of Canadian Households own pets which equates to 7.5 million households.
- 37% percent of Canadian households owned one or more cats,
- 32% owned dogs.
- Overall Canada is home to roughly 5.9 million dogs and 7.9 million cats.
- Nine percent of Canadians owned other types of pets, including fish, birds, small mammals and herptiles.

Household penetration rates for reptile-ownership in the United States from 2007 to 2013



Quellen:
Experian; Packaged Facts; PIJAC
© Statista 2015

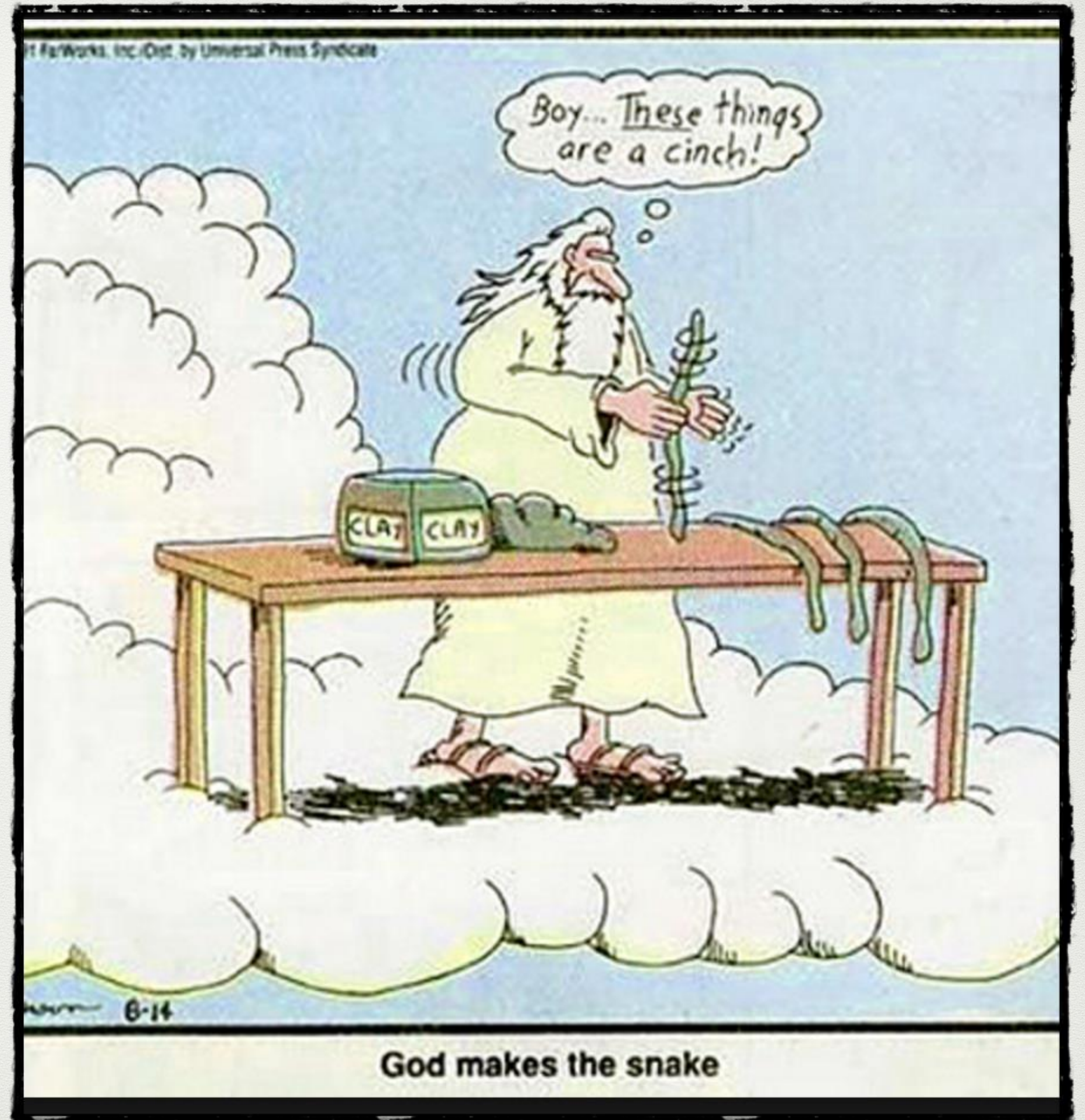
Additional Information:
United States; 2007 to 2013

statista

Reptile Ownership in the United States

Reptile Owner
Households in Canada
400,000

Reptile Owner
Households in Ontario
97,000



The Modern Reptile Industry

- The modern U.S. reptile industry starting in the 1990s.
- In 2011 it accounted for \$1.4 billion. The prime movers fueling this growth are small, predominately American businesses.
- Many of these businesses began as captive breeding operations run by reptile enthusiasts and hobbyists. Over the years, these businesses have expanded their customer base to include foreign pet owners. In 2009, 11.3 million live reptiles were exported from the United States, while only 900,000 live reptiles were imported into the United States.¹ In short, U.S. small businesses dominate the global reptile industry.

The Modern Reptile Industry

- The American Pet Products Association (“APPA”) reports that from 1994 to 2008, the number of U.S. households that own a reptile rose from 2.8 million to 4.7 million, an increase of 68%. In contrast, the number of households that own any kind of pet increased only 35% over that same period.

Problem Child

- Snakes are your biggest nightmare
- Highly valuable
- Able to keep in high numbers in small quarters.





Normal Ball python



\$15,000

Albino the first morph produced by Bob Clark



\$25,000

1997 produced by Pete Kahl



\$25,000

Spider by Kevin McCurley of N.E.R.D.
Also produces a genetic neurological defect



\$25,000

Pinstripe by Brian Barczyk



\$45,000

Super Black Pastel - Chris McQuade



\$65,000

Banana and Coral Glow



\$125,000

Ivory



\$200

Ivory Ball python purchased today



\$0

Normal Ball python current value.



\$0

Dewdney Has euthanized over 40 in the last 12 months.



\$0

We were able to rehome 1



\$0

It was returned a few months later and euthanized.

White Leucistic Boa

Princess Diamond - Owned by
Jeremy Stone



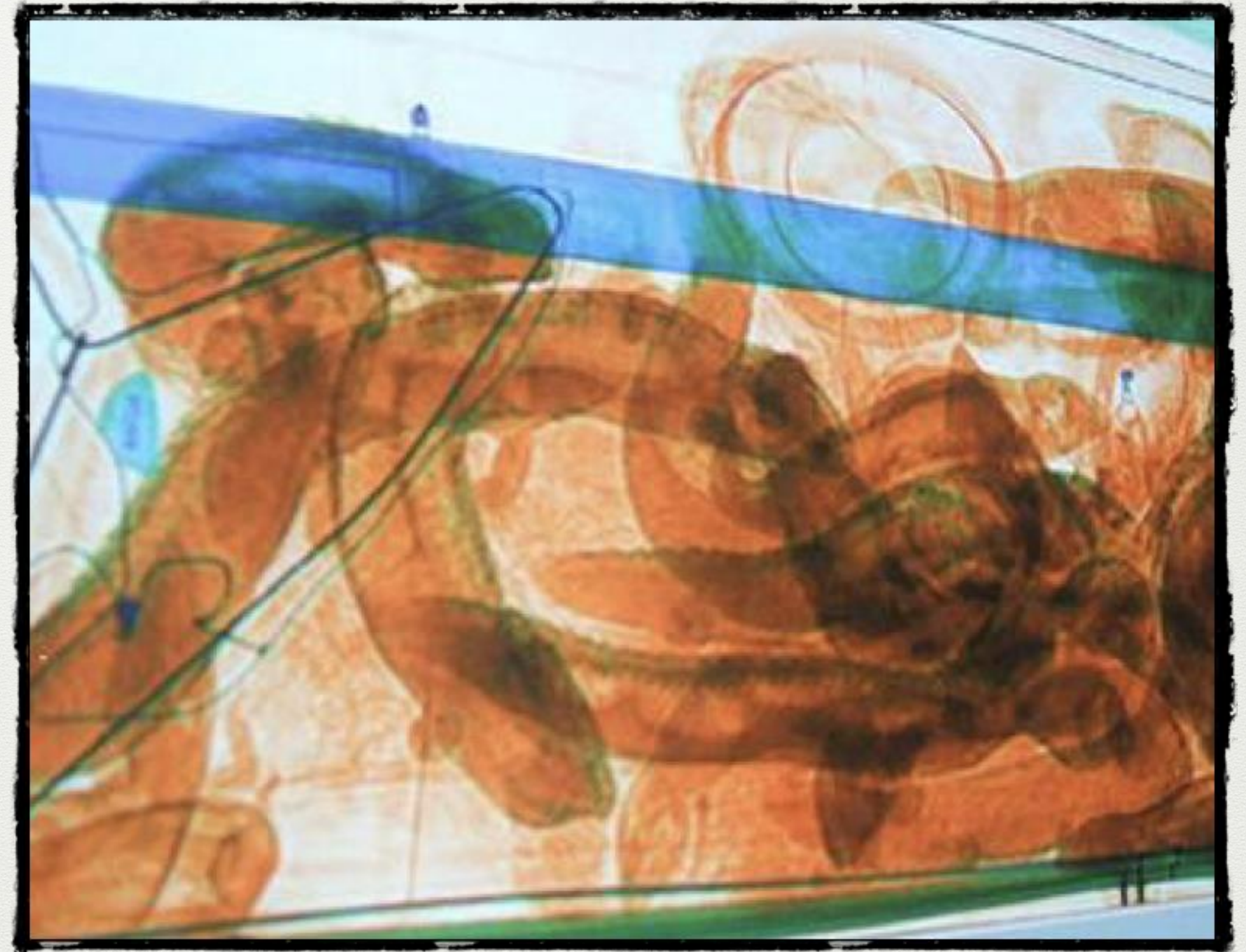
\$65,000 PER OFFSPRING

10-20 animals per clutch

\$1 MILLION DOLLARS

Cites Nightmare

- Stolen from a zoo in Brazil
- Pleaded guilty in 2014.
- All the offspring were flown back to Brazil in 2015





Snake breeding facility 1400 animals in this room









\$ of a new gene
Dominant gene

Generation

1

2

3

4

5

\$

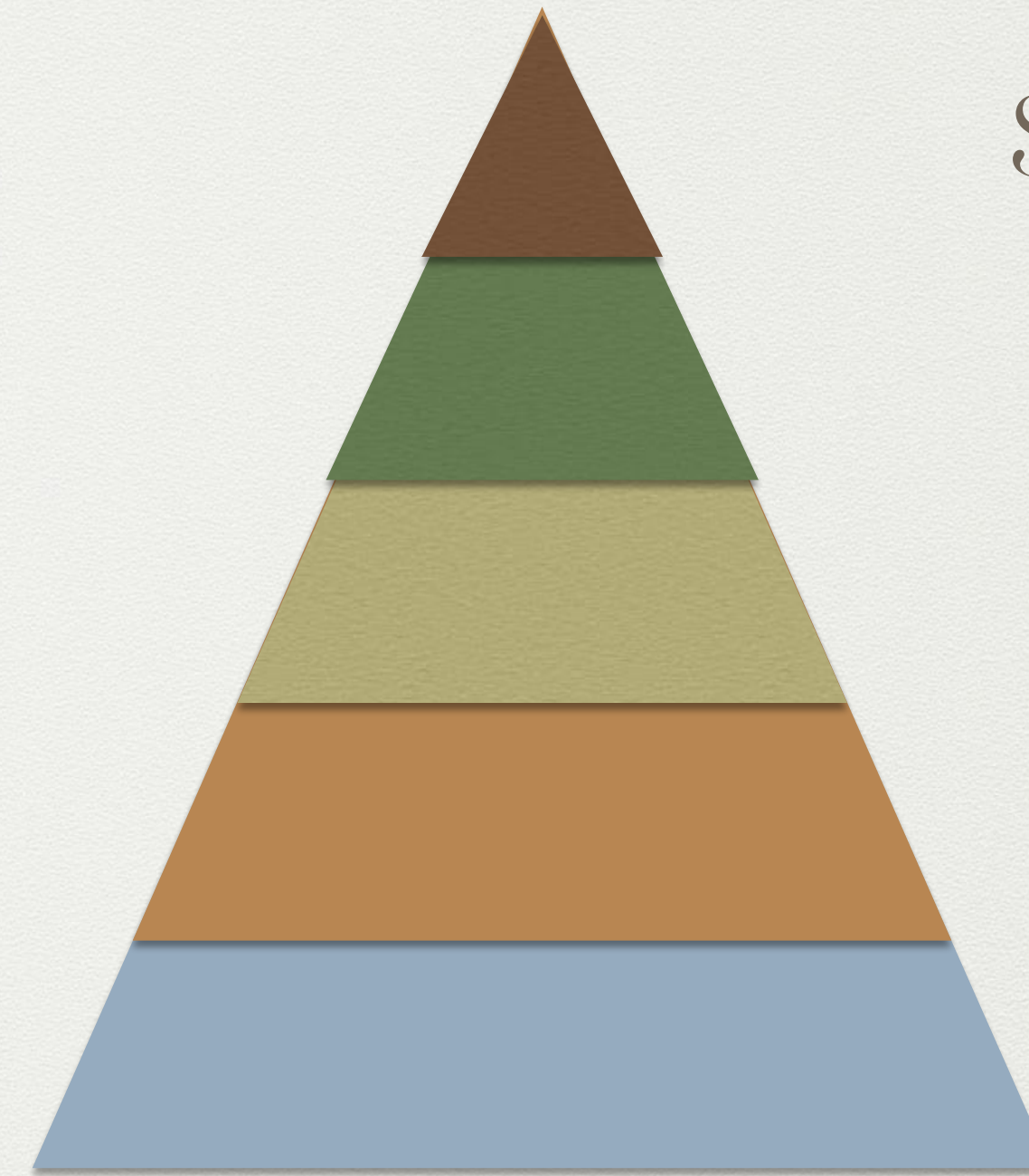
\$1,000,000

\$100,000

\$10,000

\$1000

\$100



\$ of a new gene

Recessive gene

Generation

1

2

3

4

5

6

7

8

\$

\$1,000,000

\$100,000

\$50,000

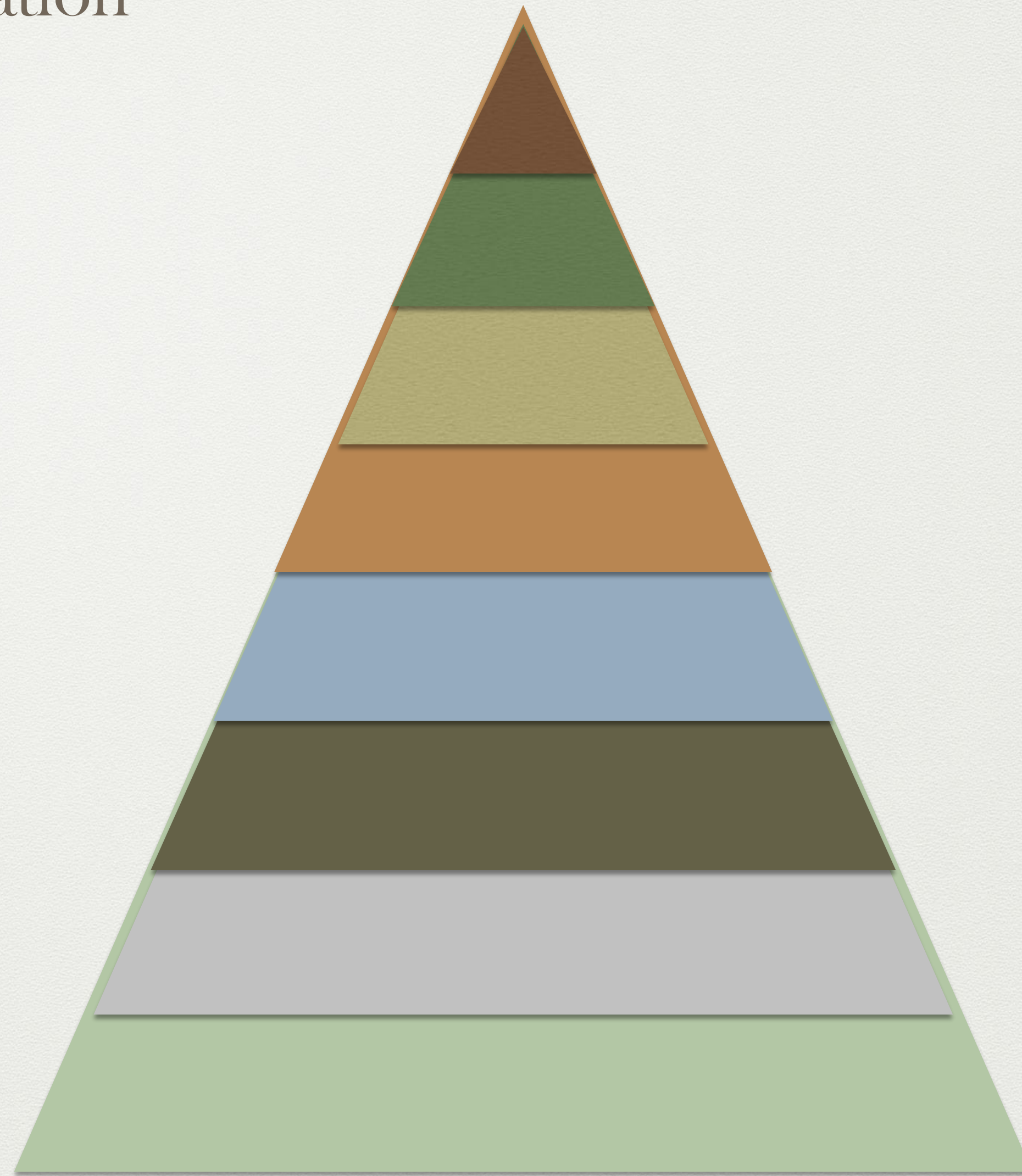
\$25,000

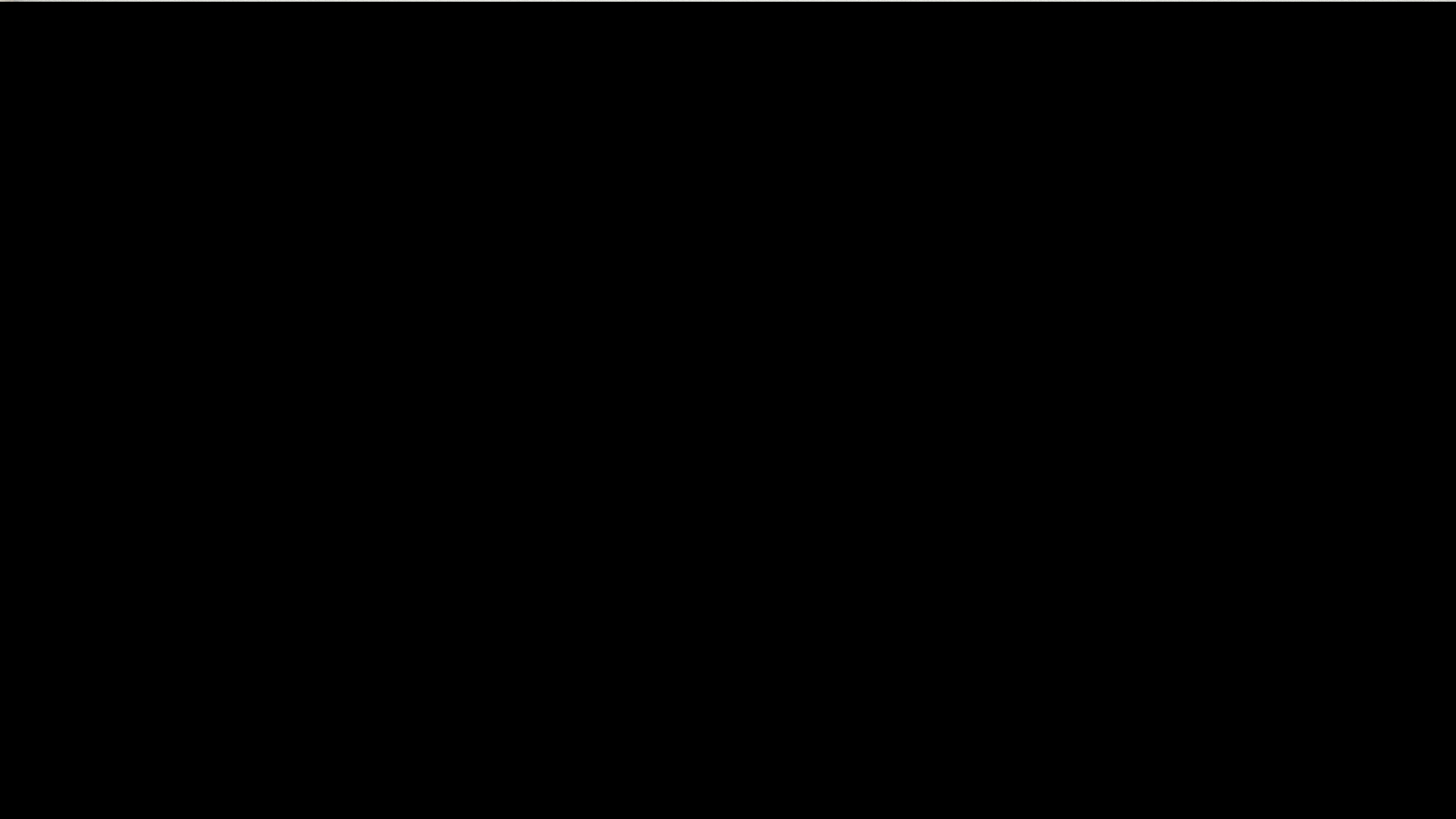
\$12,000

\$6000

\$3000

\$1500





Industry

- Cash Business
- Low overhead
- Constant influx of new Rubes
- Specialized market
- Money Laundering.

THE CURRENT STATE OF REPTILES AND THE
LAW



HOW TO WORK UP A REPTILE INSPECTION

Reptile Investigation

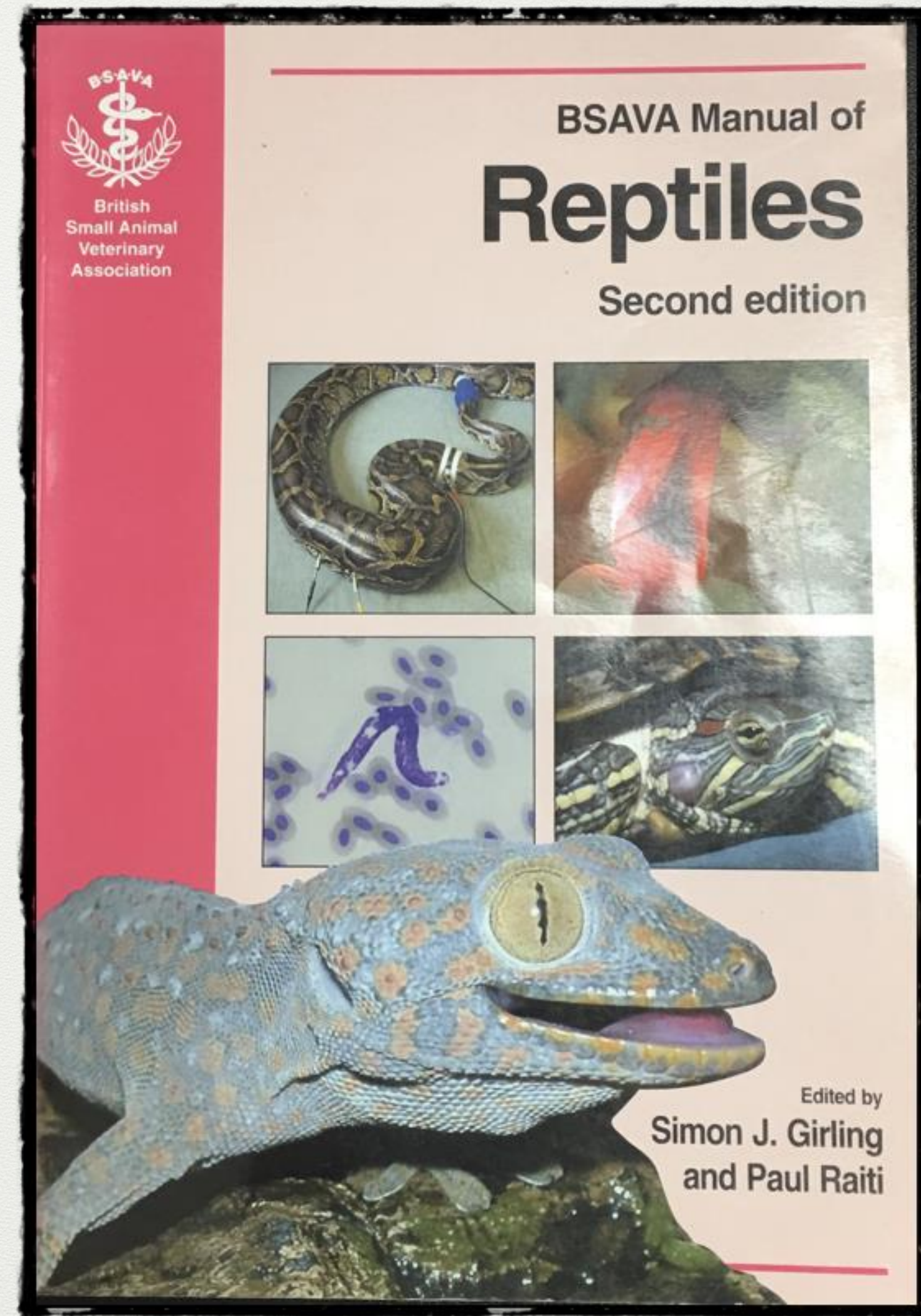
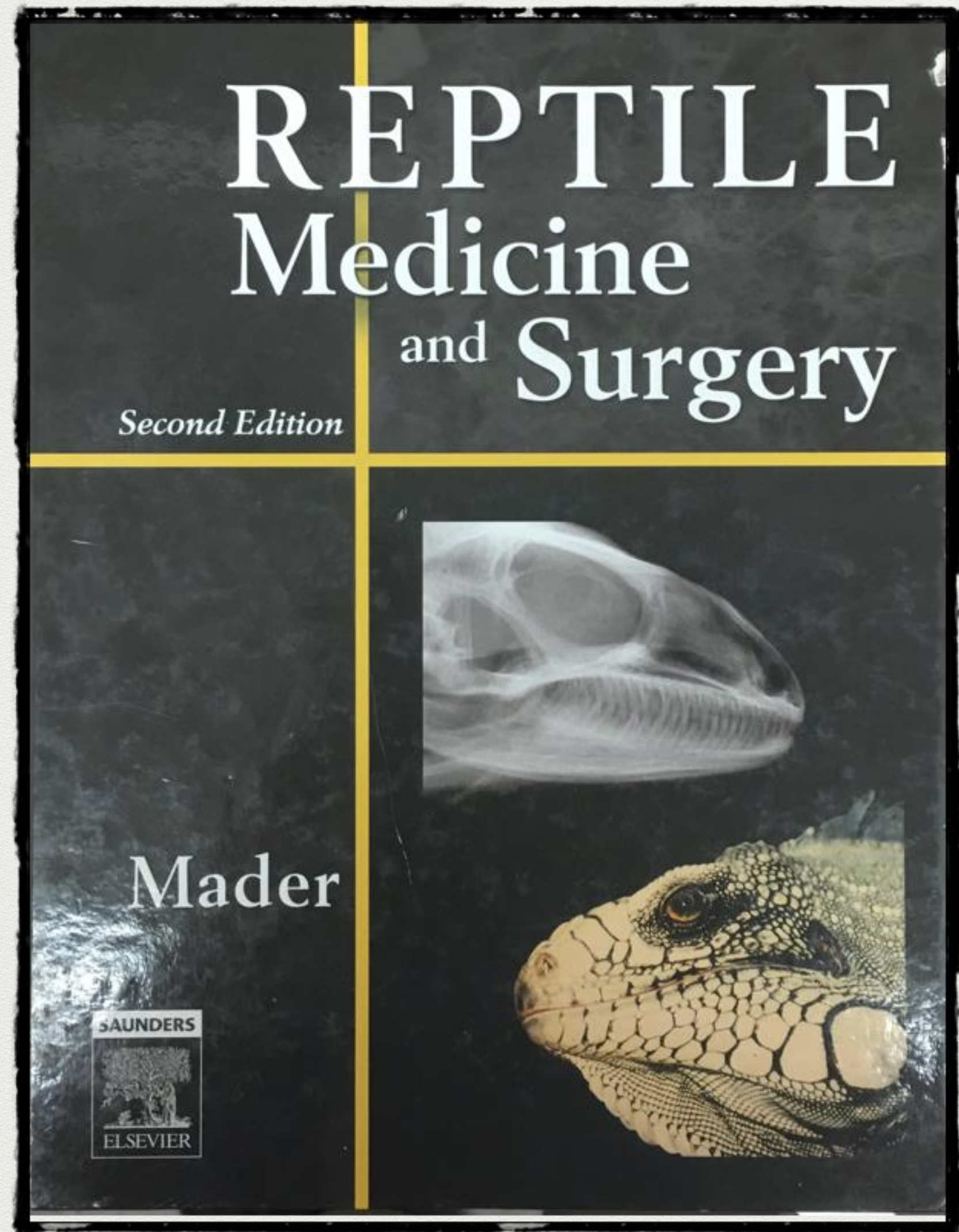
You are going to need a veterinarian.



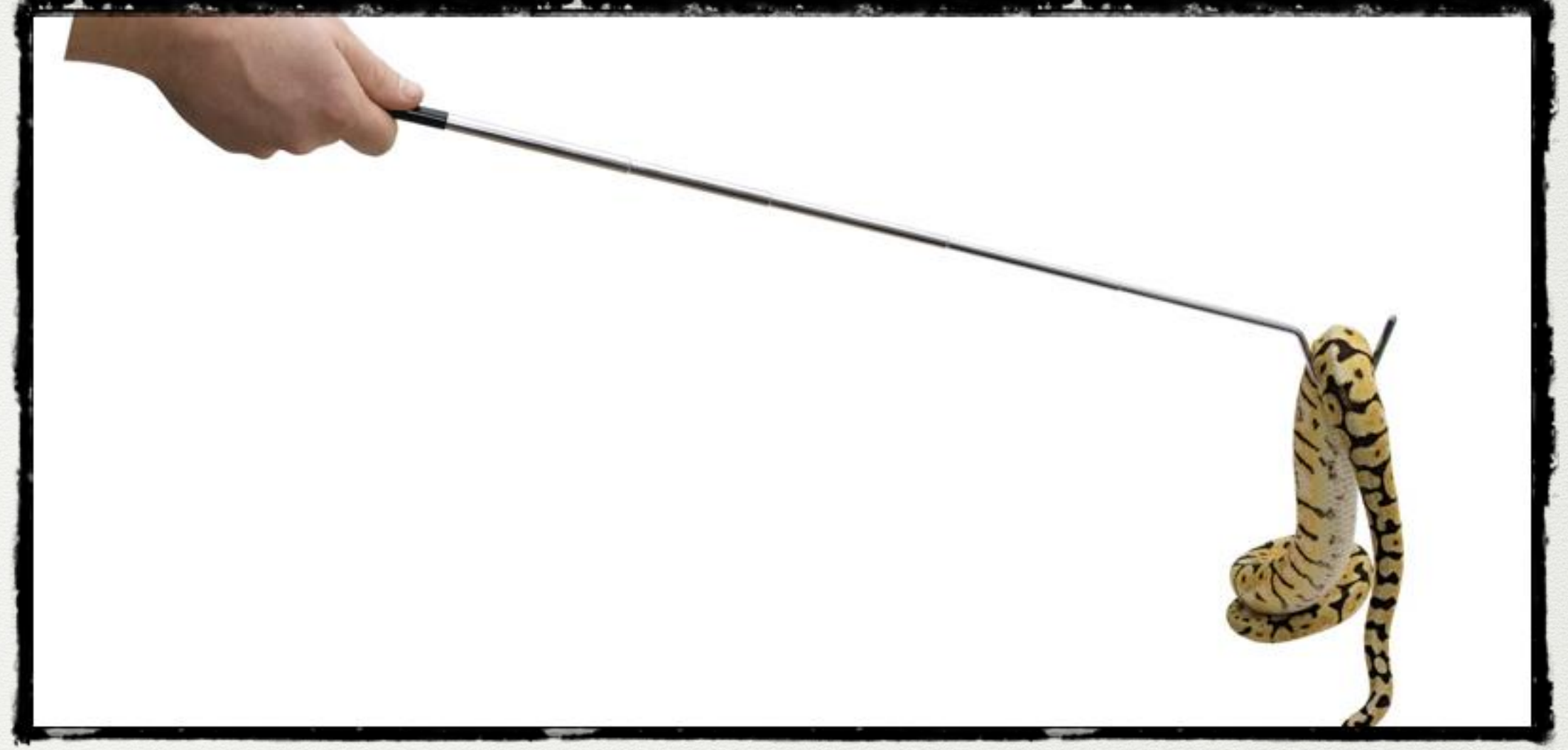
"The big fellah's gonna be A-OK, Mrs. Dickerson. Now, a square knot would've been bad news, but this just appears to be a 'granny.'"

Expertise

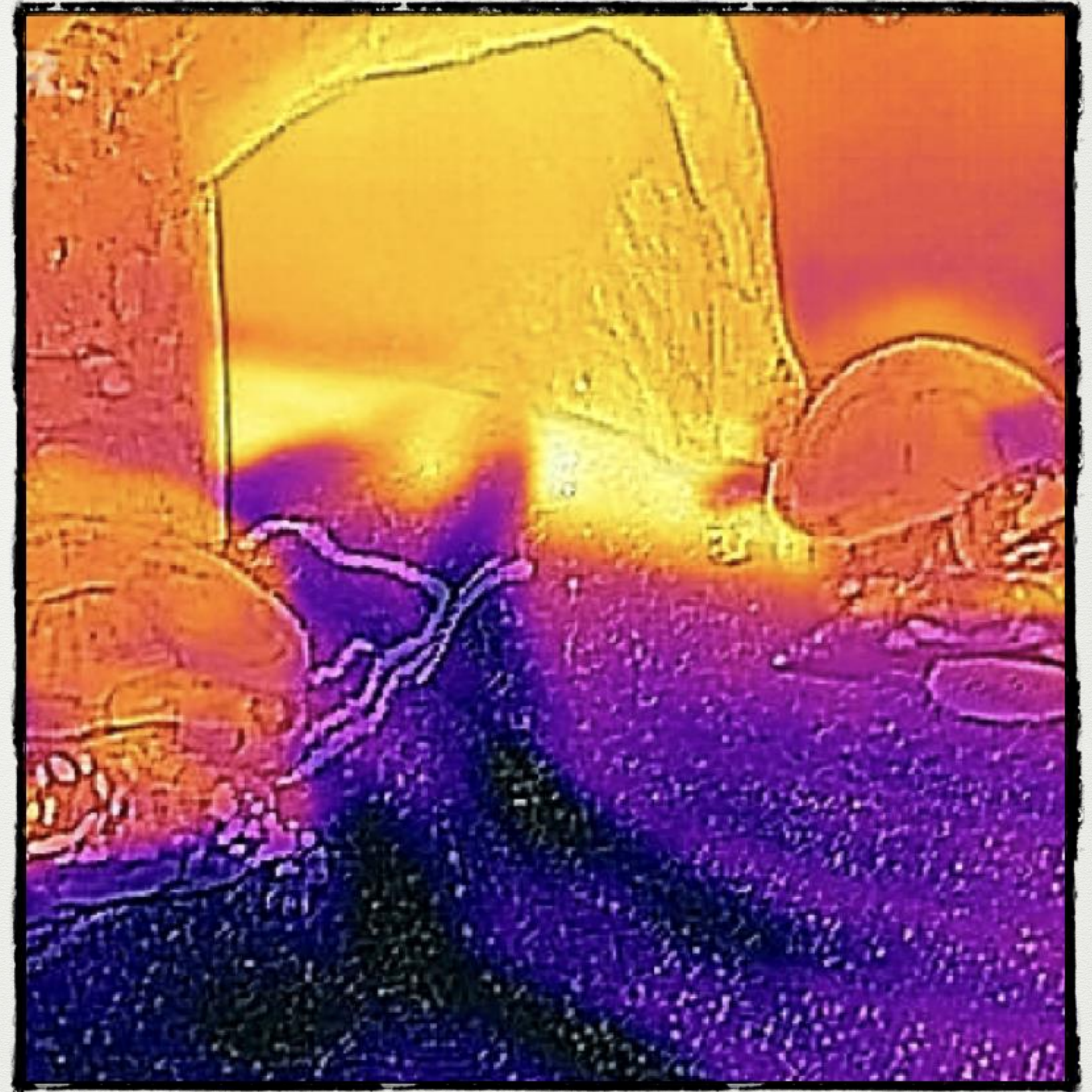








Thermal Imagery

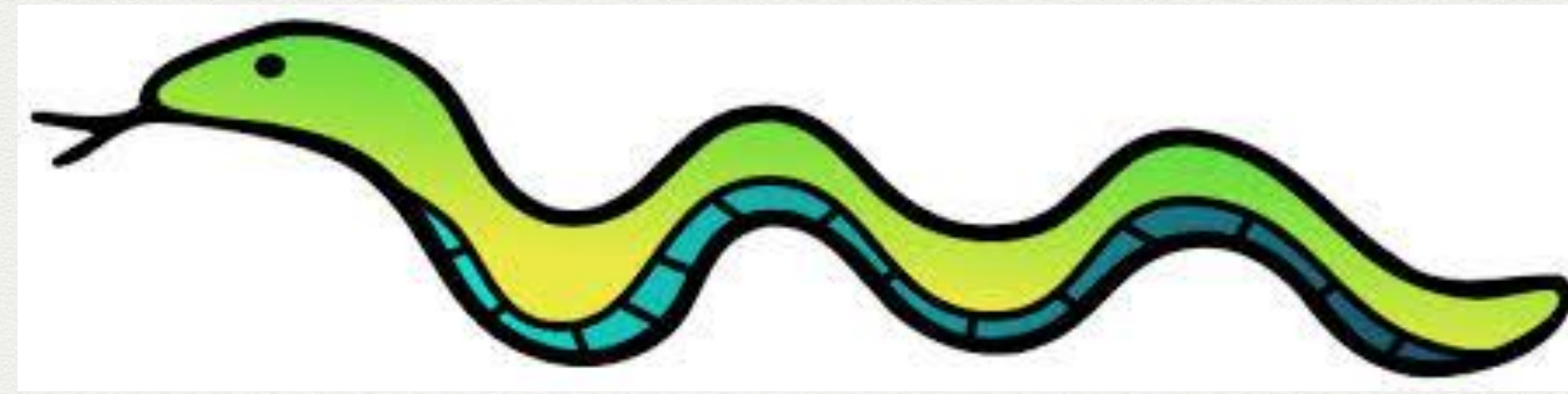




Caging







Length of the Snake

=

The Length of the cage+ the Width



So an 8' snake requires at least a 6' x 2' cage

- Lizards - Length 3x the animals length/Width 2x animals length (Height 2-3 x animals length if arboreal).
- Turtles - Length 5x animals length/Width 3x animals length and at least 1/2 animals length for water depth.
- Tortoises - Area 5x animals length squared.

Minimum standards vs Recommended

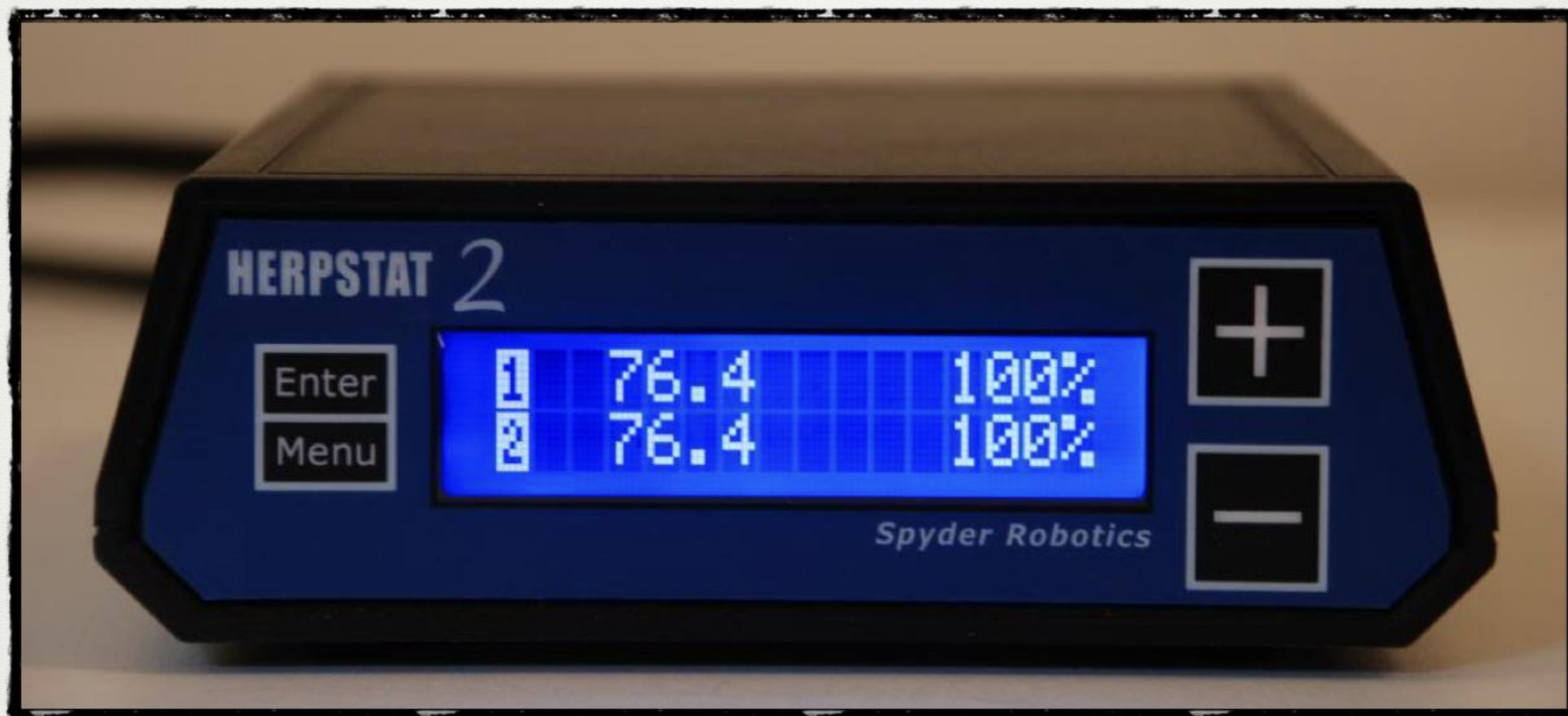
- Minimum standards are the smallest currently published recommendations
- More a legal argument than an ethical one. IE WHAT can I prove in court.
- The current recommended standards are usually quite a bit larger
- Snake cages should be at least as long as the snake.

The most common
snake enclosure

23" x 16" x 6"

FOR ADULT BALL PYTHONS





HERPSTAT 2

Enter

Menu

1	76.4	100%
2	76.4	100%

+

-

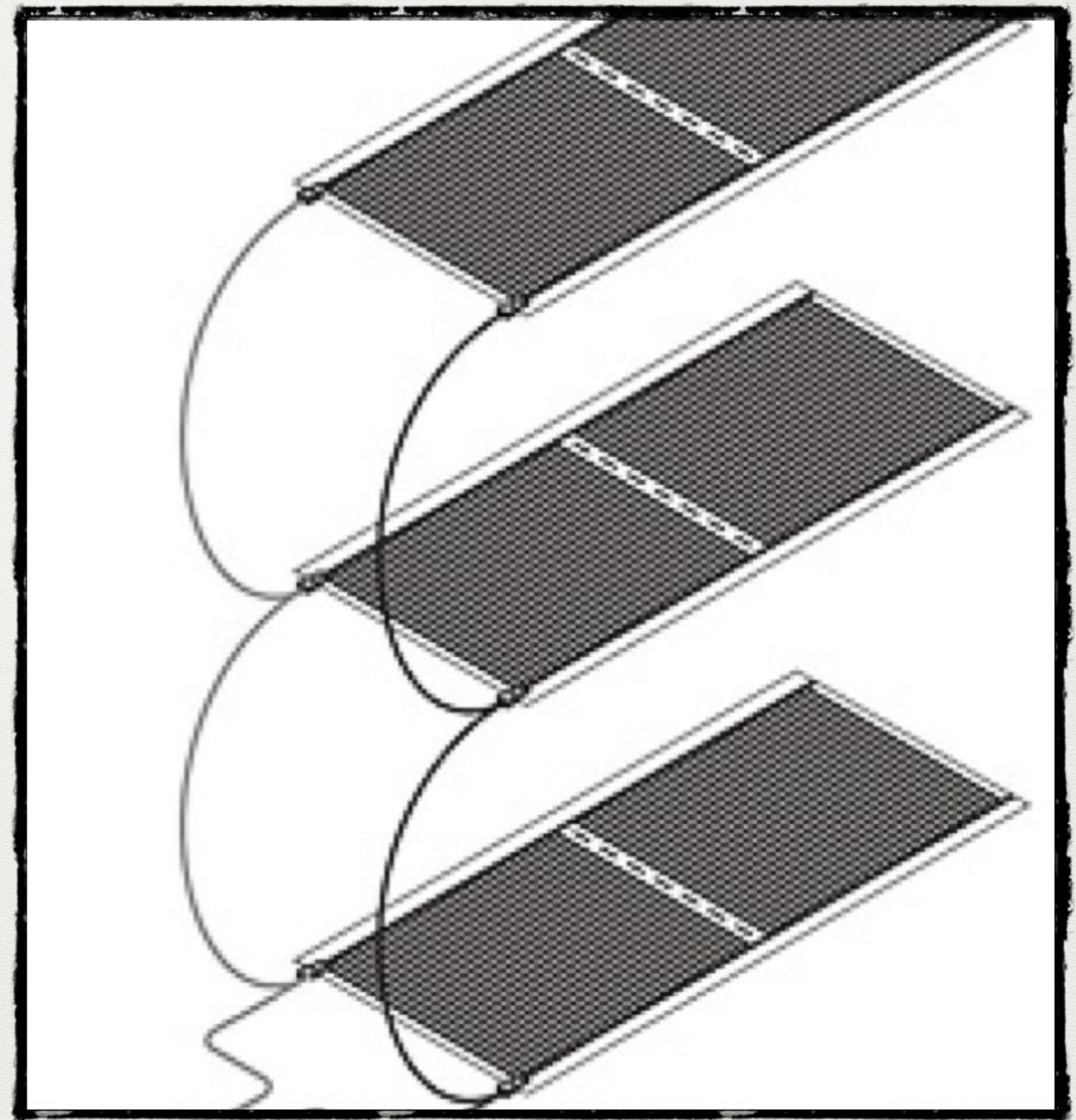
Spyder Robotics



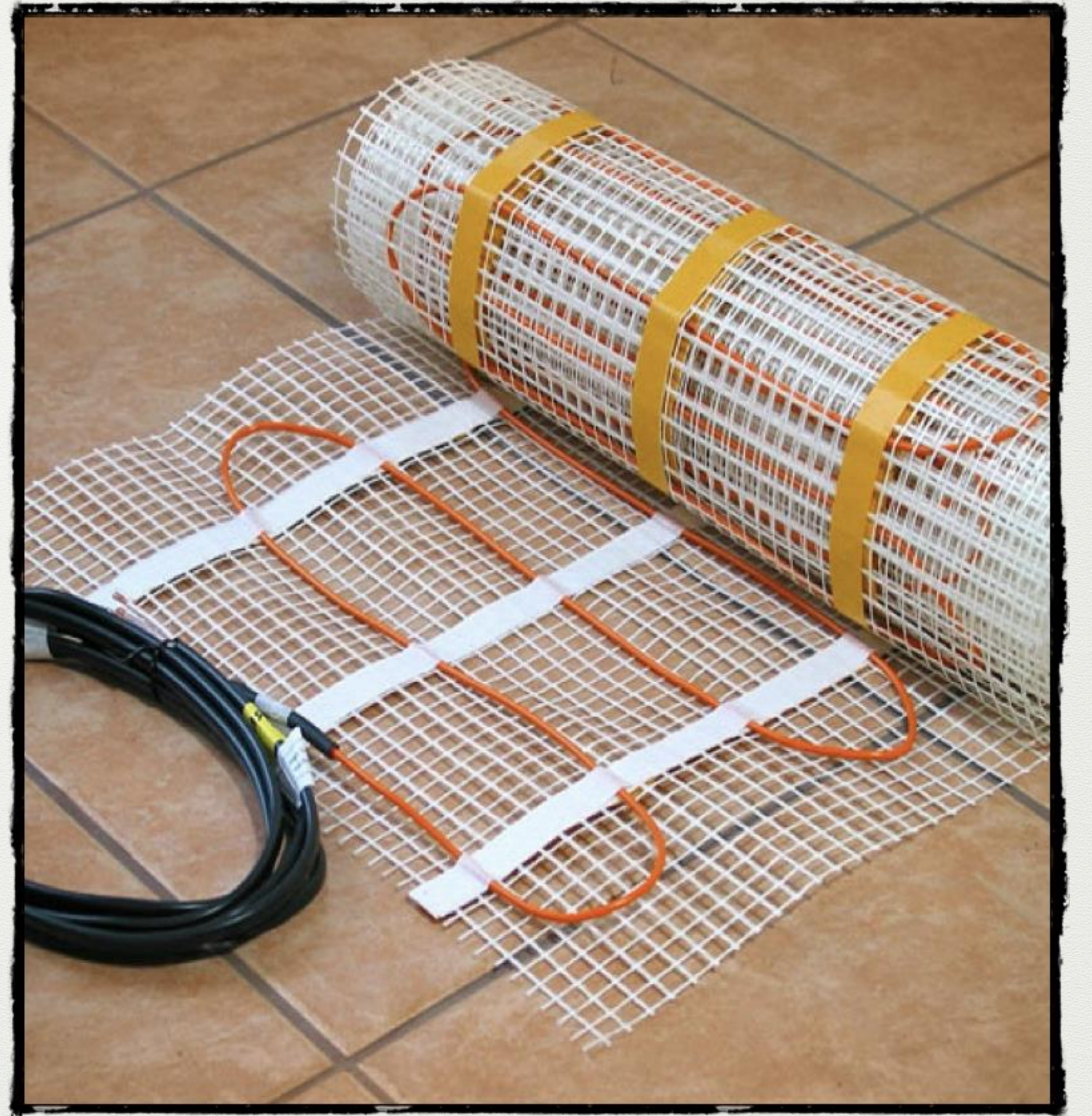


Flex Watt Heat Tape Setup

Run in series
Controlled by thermostat



Heating wire



Heating Pad



Thermal Burns



UV Lights

- Certain lizards and all turtles/tortoises require UV light
- Reptiles use UV light to produce Vit D₃ which is essential in bone formation
- Produced by the sun (unfiltered by glass), certain fluorescent bulbs and Mercury Vapor bulbs
- Oral Vit D₃ supplementation not an adequate replacement to UV light. Oral absorption still debated.



UV light



- Fluorescent bulbs need replacement every 6 months.
- Will often time use regular fluorescent bulbs that produce no UV
- Smart UV Checker and App \$32 on [amazon.ca](https://www.amazon.ca)
- Hold close to the bulb, should generate between 0.1-0.3
- Black lights aren't safe

What to look for

- Lack of water
- Overcrowding - Not all reptiles are social
- Mixing species
- In appropriate housing for specimens



Medical Concerns

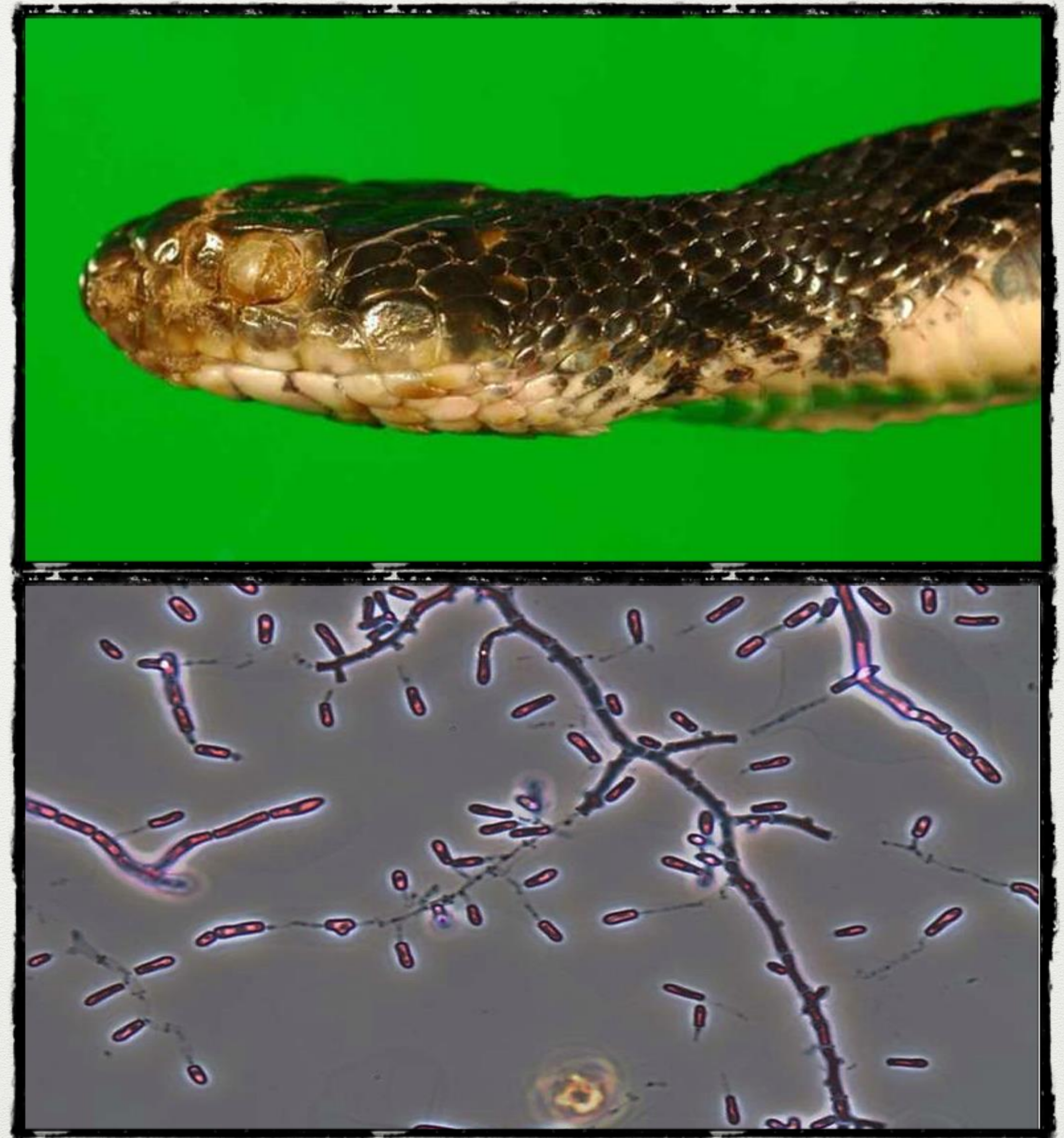


- Injuries - from prey or other reptiles.
- Parasitism - fecal floats and external parasites
- Vet records

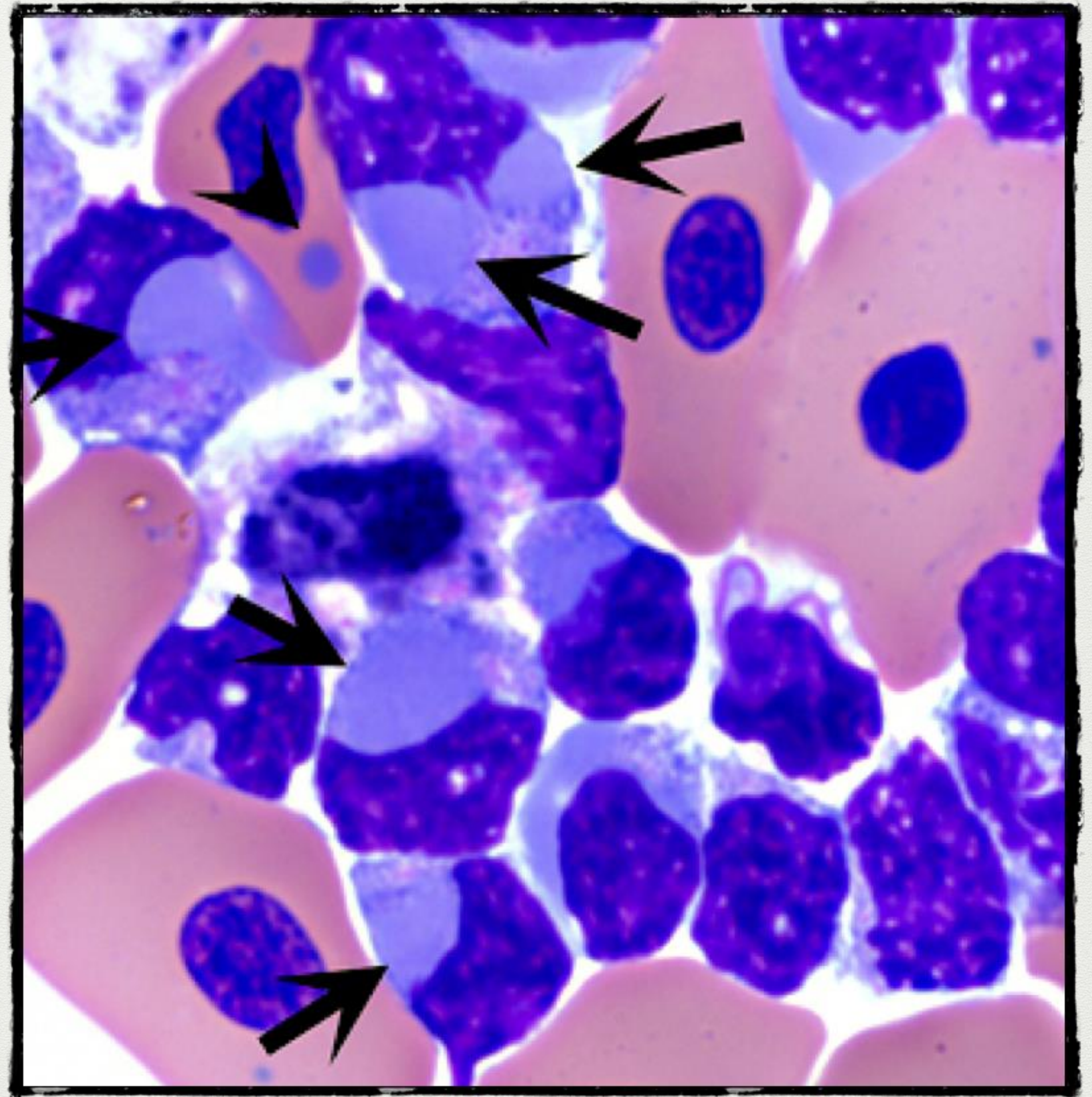
Snake Fungus

Identified in at a single facility in
British Columbia.

Infected animals being kept next to
Breeding mice for sale as food to
reptile owners.



Inclusion Body Disease



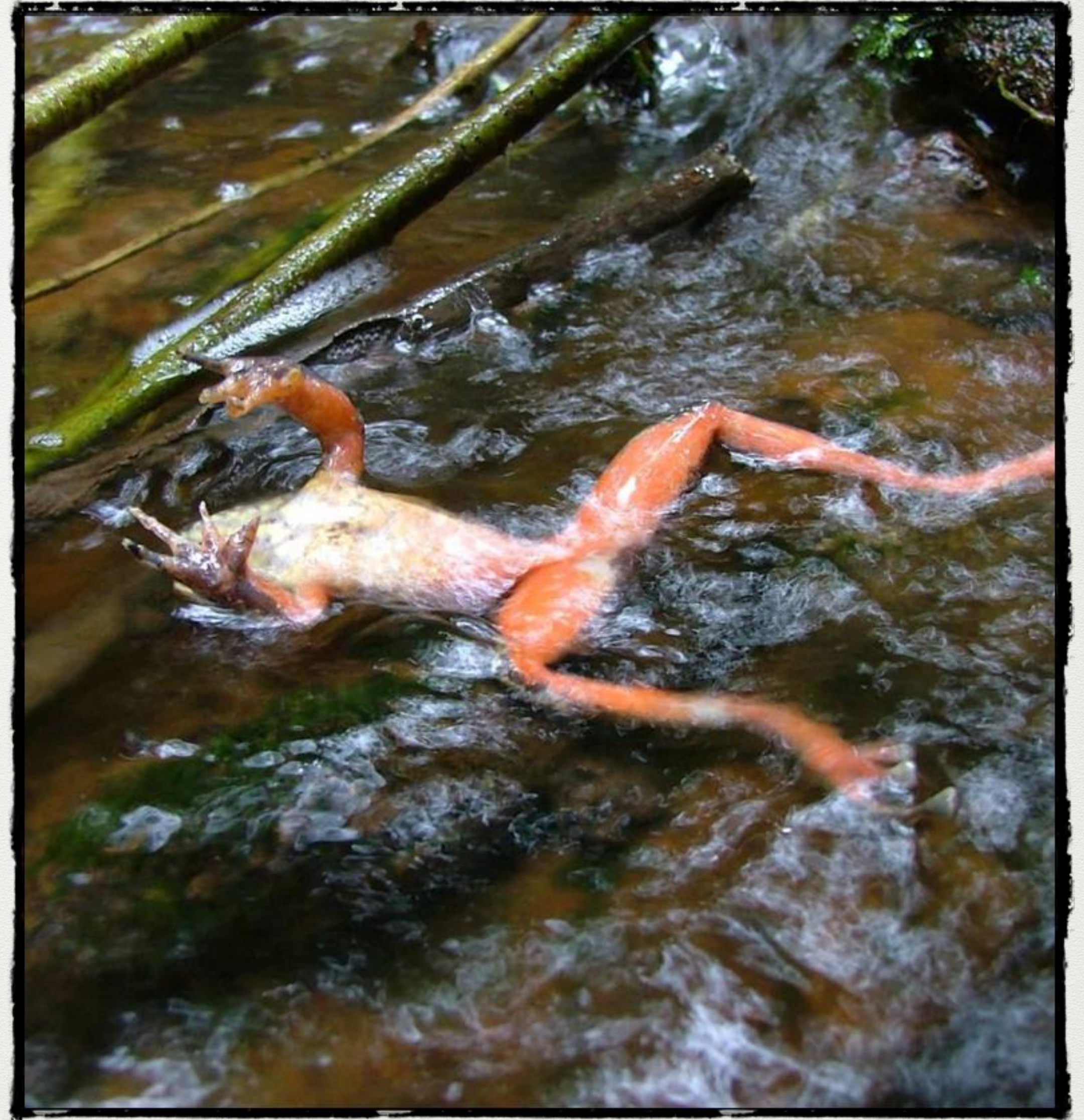
Chytrid fungus

Wiping out frogs across the globe

Had a suspected outbreak on
imported tree frogs in BC.

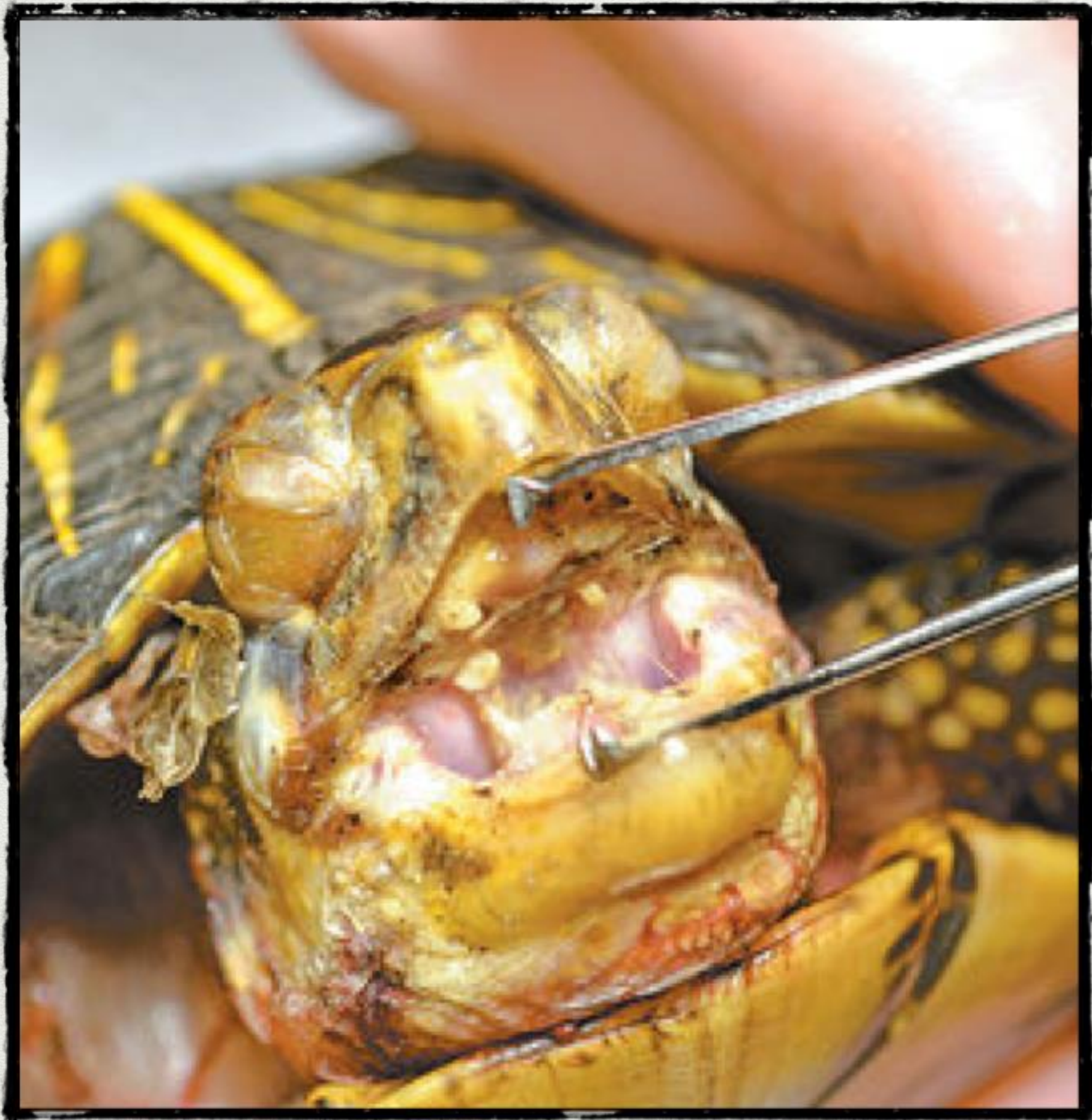
Confirmed on cytology

Unconfirmed on DNA





In elusion body disease



- Rana virus in Ontario Turtles
- High Mortality in Box Turtles
- High Mortality in Frogs

Ranavirus discovered in Ontario turtles

BY CWHC · 2018-05-07

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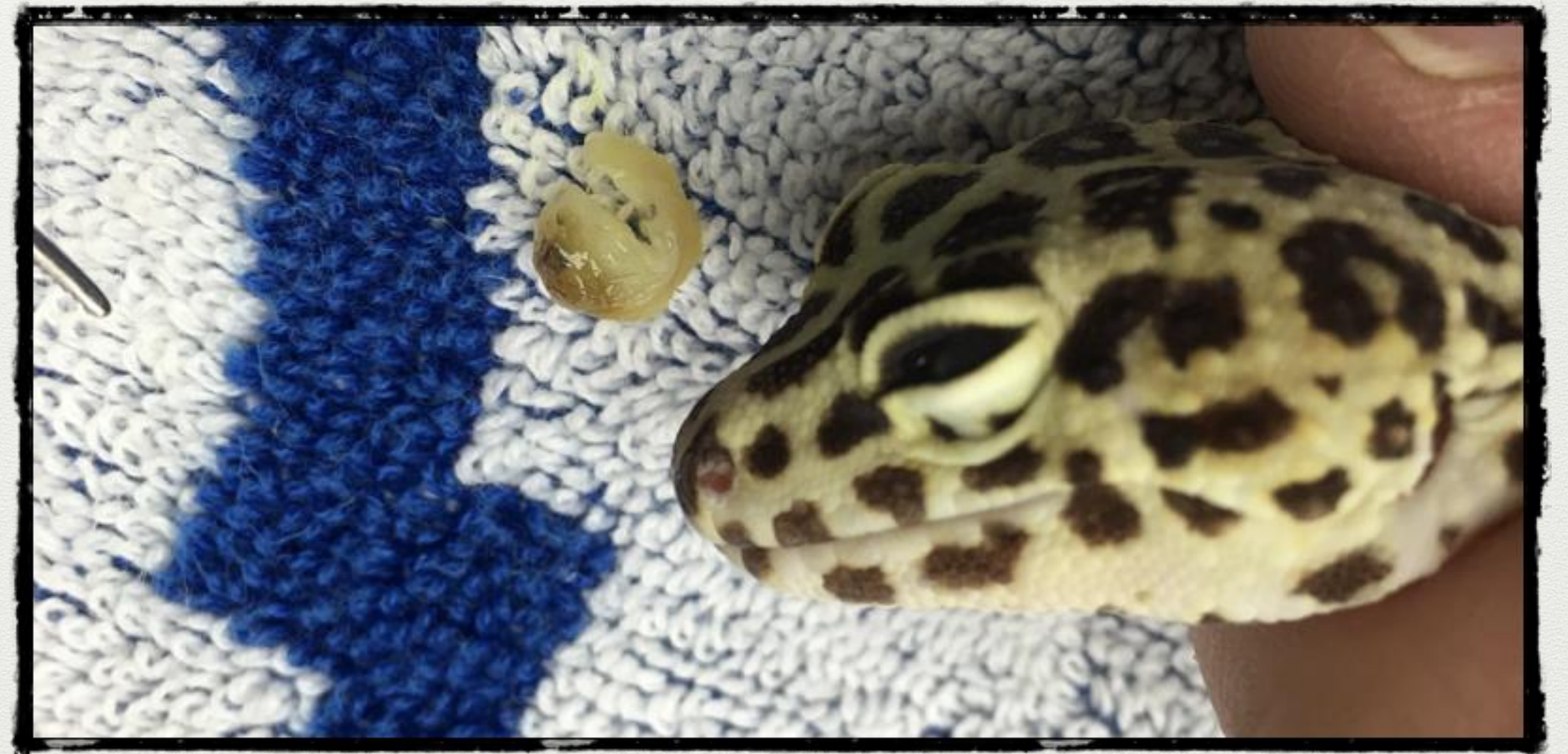
Juvenile snapping turtle. Photo Credit: DM Jefferson

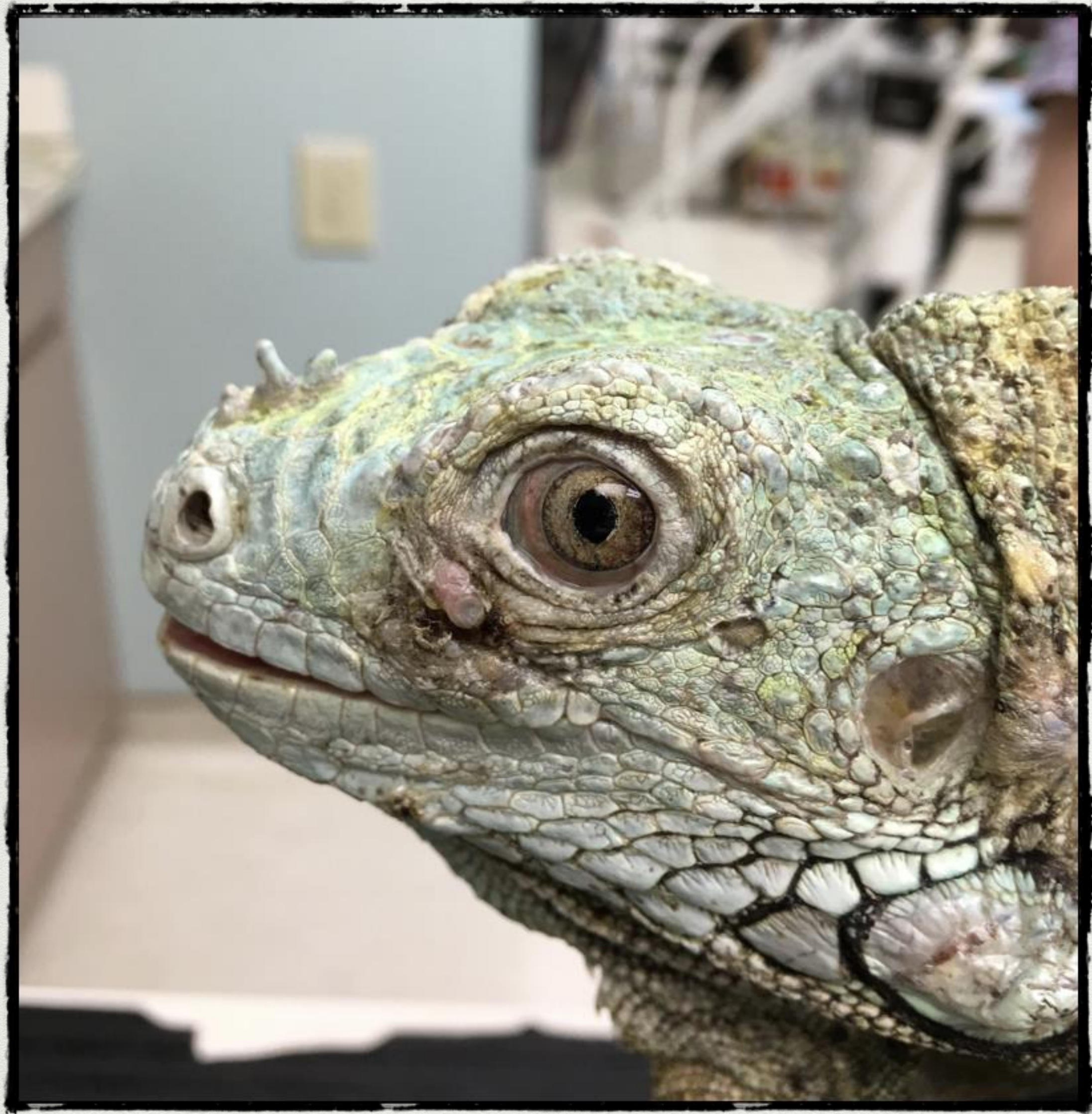
THE FOLLOWING ANIMALS WERE
SURRENDERED TO DEWDNEY ANIMAL
HOSPITAL

The previous owner maintains they were all 110% healthy



















CANV or Yellow Fungus Disease



SAMPLE SITE INSPECTION

Sample Examination

Cage #	Exam Findings			
1	No water			
2	Cage too small			
3	Animal in distress			
4	Cage too small, no water present			
5	Animal in distress, cage too small and no water			

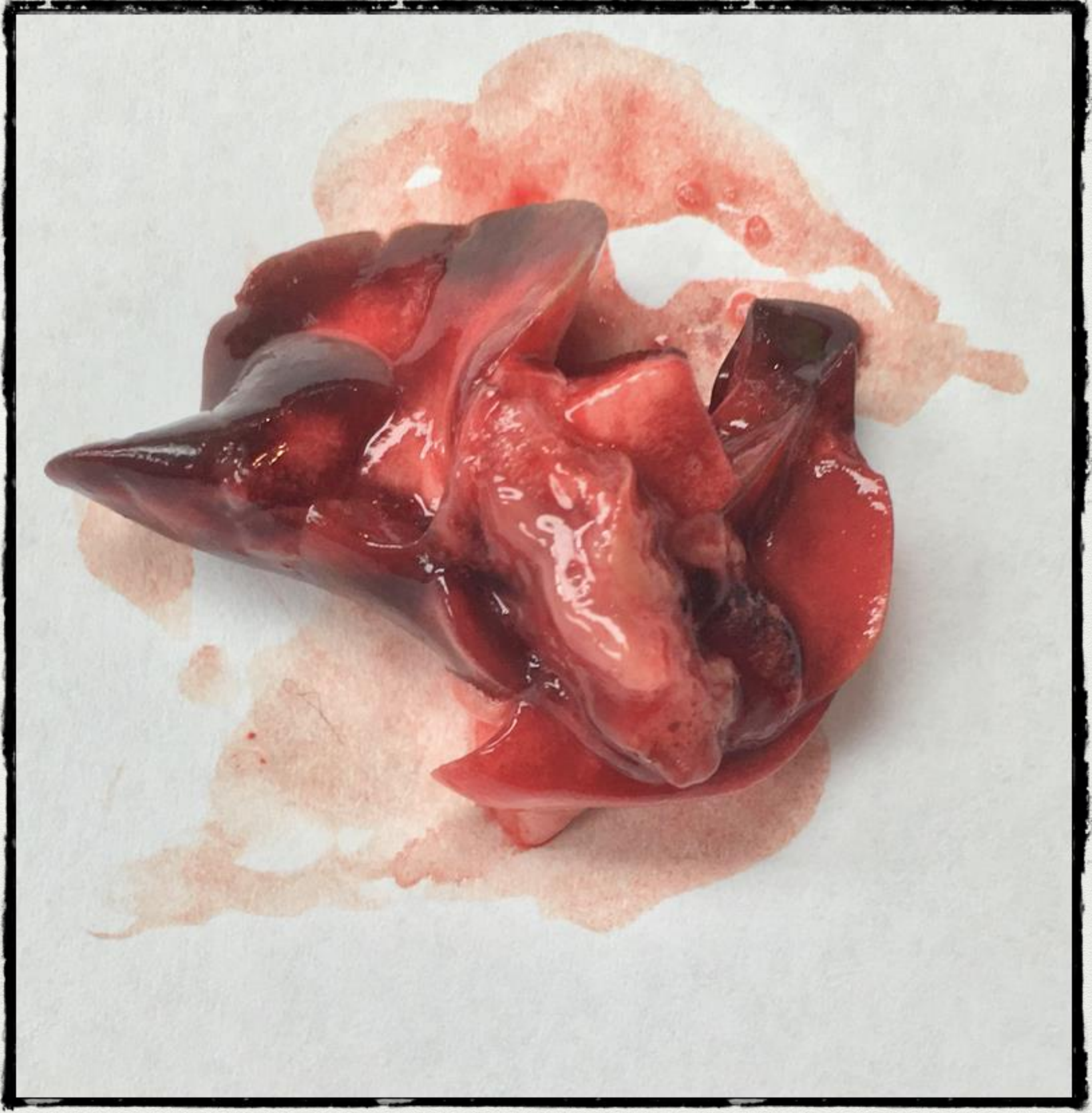
Statistics

	%
No Water	60%
Cage too small	60%
Medical problem	40%

Don't forget the food!

- Rats and mice deserve equal care
- Ensure they have sufficient food, water and space. Rat food, not dog food.
- Look for inter animal aggression.
- Pneumonia and mycoplasmosis is a common ailment
- Must be kept cool.
- Feeding live is unethical and rarely needed
- Humane euthanasia is cervical dislocation or CO₂, not vinegar and baking soda





“The greatness of a nation and its moral progress can be judged by the way its animals are treated.”

-Mahatma Gandhi

