



WASHOE COUNTY 4-H HERPETOLOGY BREEDING RECORD



EXTENSION
College of Agriculture,
Biotechnology & Natural Resources

An AA/EEO institution



4-H Youth
Development

MOUNT PHOTO OF YOU AND
ONE OF YOUR ANIMALS HERE

Name: _____

4-H Age: _____

Club: _____

4-H Project Year: 10/1/ 9/30/ _____

Project: _____

Year in Project: _____

County: _____



Member's Guide

- The purpose of this 4-H record book is to record the various steps in the breeding process of oviparous snakes.
- In addition, you will be asked to include a detailed inventory of items needed outside of your normal care items for your 4-H animals. These items may include incubators, lay boxes, vermiculite, racks/tubs for hatchlings, etc.
- Financial records will be kept to show expenses for products needed to complete the project, profits from sales during project, and any offspring produced from the project. At the end of the project a final profit/loss statement will be recorded.

Project Plan

1. **Breeding goals:** Why are you breeding this pair? (*Examples would be wanting to produce a certain morph, prove out a het, interested in learning the life cycle.*)
2. **Breeding Pair Origination:** (*Is the pair owned by the member, is one animal being borrowed, is this a group project with another member?*)
3. **Partnership Hatchling Plan:** (*splitting the clutch with a partner or as a stud fee*) Is there any arrangement for the hatchlings? If so, what is the agreement?
4. **Financial Sourcing:** (*How are you planning on funding this breeding project?*)
5. **Hatchling Plan:** What do you planning on doing with hatchlings? If selling where and how are you going to market them?

Breeding Pair Information:

Species scientific name: _____

Species common name: _____

Male Information:

Name: _____

Morph: _____

Age: _____

Breeding Weight: _____

Proven Breeder? Yes No

Female Information:

Name: _____

Morph: _____

Age: _____

Breeding Weight: _____

Proven Breeder? Yes No

BREEDING PAIR INFO (continued):

ATTACH PHOTOS OF MALE ON THIS PAGE

BREEDING PAIR INFO (continued):

ATTACH PHOTOS OF FEMALE ON THIS PAGE

Genetic Information

Please list the genes included in your snake's morph and the type of gene that will influence the outcome of the clutch. Based on the projected outcome and traditional clutch size for your species of snake, estimate a fair market price for your clutch and list prices. You may use MorphMarket as reference site for pricing as long as the animals compared only have the identical morphs included and not extra traits. Base the pricing on male offspring only.

Recessive gene:

Heterozygous (het)- A ball that is listed as a "het" means it is carrying a recessive gene, but not visibly expressing it. When bred to other ball pythons showing or carrying the same recessive gene, the visible morph can be produced.

Double Recessive gene:

Combining 2 different recessive genes. Double het means that the snake carries two different traits, but expresses neither of them.

Dominant gene:

This is a visible mutation and appears when a single allele at a locus is different than the normal. A matched pair of the mutated allele will appear the same as the single. Dominants will carry the super form gene but it will not look different than the original dominant.

Co-dominant (incomplete-dominant) gene:

This type is dominant to the normal, meaning you can breed it to normals and produce some snakes showing the morph. There is also a super form of co-dominant morphs.

MALE MORPH: _____

GENE(S): _____

TYPE: _____

FEMALE MORPH: _____

GENE(S): _____

TYPE: _____

Genetic Prediction

Probability Fraction or %	Traits included	Morph Name	Market Price

Health Record

Project Animal Health Checks

Date: _____ Vet Name: _____

Practice: _____

Address: _____

City: _____ State: _____ Zip: _____

The breeding pair must have an initial health check prior to breeding and to established with an exotic vet in the event of an emergency during the project. Attach note from Doctor showing exam and in good health.

Date	Animal Seen (M/F)	Reason	Treatment

Health Record (Continued)

Date	Animal Seen (M/F)	Reason	Treatment

Inventory

Use this sheet to record any expenses that are incurred during this project (equipment, food, bedding, medical, etc.) Remember to include any cost you had in acquiring any snake for this project. This also includes maintaining care throughout the project for each snake while still active in the project. As long as the male is within your care during the project, his care should be included as an expense.

Date	Item/Description	Quantity	Cost
Total Cost			

Brumation or Cool Down

Pre-brumation Feeding:

List any changes in feeding or lighting prior to brumation

Snake being brumated (male/female): _____

Date of last meal: _____

Date of brumation: _____

Brumation temperature: _____

Length of brumation: _____

Date of warm-up: _____

How did you achieve proper brumation temperatures? *(Did you change location or use climate controlling devices?)*

Brumation Record

Use this page to record any observations or notes during brumation timeframe.

Date	Notes

Pairing

Date	Pairing/ Separation	Observations	Confirmed Lock
	P / S		Y / N
	P / S		Y / N
	P / S		Y / N
	P / S		Y / N
	P / S		Y / N
	P / S		Y / N
	P / S		Y / N
	P / S		Y / N
	P / S		Y / N
	P / S		Y / N
	P / S		Y / N

Attach images of visual locks here, if possible:

Female Weekly Weights

Use this chart to record weights for the female and make notes of any signs of being gravid.

Date	Weight	Notes:

Post Lay (clutch)

Date Clutch Laid: _____

Total Eggs in Clutch: _____

Number of Slugs: _____

Female Weight after Lay: _____

Insert photo of clutch:

Incubation

Technique for Incubation: _____

Target Temperature: _____

Target Humidity: _____

Substrate: _____

Start Date: _____

Date of First Egg Pipping: _____

End Date: _____

Total Number of Days Incubated: _ _____

If you built your incubator describe the project and attach photo:

Hatchlings

Successful hatchlings (list morphs and sex if known, number them for reference in feeding chart.)
Note any defects.

No. #	Morph	Sex	Defects/Deceased
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			

Photos

Use this page to record any pictures of the incubated eggs hatching or any other noteworthy events.

Hatchling Feeding Chart

Note any refusals in chart

No. #	First Shed	Feeding #1	Feeding #2	Feeding #3	Feeding #4	Feeding #5
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						

Clutch Sales

1			\$
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
Total received from sales:			\$

Conclusion

Financial:

Project Total Sales: \$ _____

Add any monetary donations + \$ _____

Total money coming into project = \$ _____

Subtract project Total Cost: - \$ _____

Total Project Revenue = \$ _____

Goals:

Were you able to successfully meet your goals in this project?

List three (3) things that you learned by participating in this project

1)

2)

3)

Is there anything that you would do differently in future breeding projects?

I have reviewed this project record, and to the best of my knowledge, it is current.

Club Leader's Signature

Date



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Washoe County 4-H Herpetology Breeding Record

Completed May 2024

Co-produced by Washoe County's Cold-Blooded Critters 4-H Herpetology Club