

# The use of Passeriformes in the eastern Amazonia of Brazil: culture encourages hunting and profit encourages trade

SAMANTHA SILVA, BRENDA BRAGA, LEANDRO BRASIL, PEDRO BAÍA-JÚNIOR and DIVA GUIMARÃES

SUPPLEMENTARY MATERIAL 1 Questionnaire (here translated from Portuguese) used to collect socioeconomic, cultural and ethnoornithological information (knowledge about the biology of Passeriformes, reasons for breeding, opinions on the characteristics of species, including beauty, song and territoriality, details of trapping locations and techniques, captive management, economic value and commercialization) for the 60 men and two women in Abaetetuba, Pará state, Brazil, who consented to participate in this study.

Date: \_\_\_/\_\_\_/\_\_\_

Informant no.: \_\_\_\_\_ Location: \_\_\_\_\_

## I. General questionnaire for *passarinheiros*.

1. Age:
2. Place of birth:
3. Sex: a)  Male                      b)  Female                      c)  Prefer not to declare
4. Education level?
  - a)  None
  - b)  Incomplete Primary School
  - c)  Complete Primary School
  - d)  High School
  - e)  Higher Education
5. Occupation/Profession:
  - a)  Student
  - b)  Have fixed employment, if so what?:
  - c)  Unemployed
  - d)  Retired
  - e)  Other:
6. What is your monthly income?
  - a)  Up to USD 235.55
  - b)  Between USD 235.55 and USD 493.82
  - c)  Between USD 493.82 and USD 740.74
  - d)  Above USD 740.74
  - e)  Without economic stability
7. What is the length of time of your use/management of birds?
  - a)  Up to 5 years
  - b)  Between 6 and 10 years
  - c)  Between 11 and 15 years
  - d)  Between 16 and 20 years
  - e)  Between 21 and 25 years
  - f)  Above 25 years

8. What type of relationship do you have with the use/management of birds? (you can mark more than one)

- a)  Capture birds from nature
- b)  Perform only breeding of birds, without economic purposes
- c)  Carry out commercialization of birds  Locally.  To other locations
- d)  Perform captive breeding
- e)  Other:

9. Why do you breed/manage birds?

- a)  Influence of family members
- b)  Mainly for economic reasons
- c)  Like to have a bird as a pet, without another main influence
- d)  Other:

10. What mostly draws your attention to a bird?

- a)  Beauty, colors of plumage
- b)  Singing
- c)  Other:

11. Currently, have you a bird as a pet?

- a)  Yes
- b)  No

12. How many and what species do you have? What was the form of obtaining (purchase, captured in nature, captive breeding, other)?

12.1 For the birds mentioned, how do you classify the characteristics of each species to motivate the creation/management/purchase/sale of these species (beauty, singing, other).

Species	Number	Method of obtaining	Consider a beautiful bird		Consider a bird with good singing		If you have other important characteristics in the bird, please state:
			Yes	No	Yes	No	

13. Do you have a preference for some species? For what reason?

14. What characteristics are used in the identification and differentiation of species?

15. Do you use any technique to identify the sex of the bird? If so, which one?

16. Comment on the management you carry out with birds and the general knowledge about these animals in the wild (feeding, caring, if your birds are trained for some type of competition, what are the most common diseases, etc.).

17. Do you have a license/registration in the Passeriformes Registration System-Brazil?

a)  Yes      b)  No

18. Are your birds registered in the Passeriformes Registration System-Brazil?

a)  Yes      b)  No

19. Could you indicate someone who manages the birds?

20. Additional information:

**II. Specific for *passarinheiros* who buy birds.**

1. What is the main purpose of owning a bird?

2. What is the economic value of the species you own?

3. Do you sell the birds?

Additional Information:

**III. Specific for *passarinheiros* who sell birds.**

1. What birds do you usually sell? What is their economic value?

2. How do you get the birds you sell?

3. In which location do you usually sell?

a)  Free fair

b)  Directly with *passarinheiros* in the municipality of Abaetetuba, Pará

c)  Other municipalities in the state of Pará, Brazil. Which?

d)  For other states of Brazil. Which ones?

e)  For other countries. Which ones?

Additional Information:

**IV. Specific for *passarinheiros* who capture birds in the wild.**

1. What species of birds do you capture from nature? What place and time do you usually go for the hunt?

2. How many birds do you usually capture on a hunting expedition?

3. For the capture of birds, do you usually go alone or accompanied? What's the monthly frequency?

4. What are the capture techniques used?

5. Is there a period of the year that is better for capturing birds?

6. Based on the time you capture these animals, have you noticed any difference in the availability of any species? What? Where?

6.1 If so, what are the factors that you point to triggering this change?

7. What is the sale value of these birds?

8. From the knowledge you have about these animals, comment a little on the species you know, for example, what food in nature; in what environment are they usually found; reproduction, etc.

**V. Specific for *passarinheiros* that reproduce birds in captivity.**

1. What species of birds do you breed?

2. What is the purpose of breeding birds?

3. Regarding the baby birds:

3.1 Is there mortality of the baby birds? If so, why?

3.2 What the baby birds fed?

3.3 At what age are they separated from their mother and siblings?

4. How is the bird song trained?

5. At what age do birds breed?

- 5.1 What is the incubation time?
- 5.2 How many eggs does the female lay?
- 5.3 How many litters a year?
6. Do you seek to improve the genetics of birds? If so, how?
- 6.1 Have you ever bred a hybrid? If so, between which species, and the lifetime?
7. What is the sale value of the birds?

Additional Information: