

The Rufford Small Grants Foundation

Final Report

Congratulations on the completion of your project that was supported by The Rufford Small Grants Foundation.

We ask all grant recipients to complete a Final Report Form that helps us to gauge the success of our grant giving. The Final Report must be sent in **word format** and not PDF format or any other format. We understand that projects often do not follow the predicted course but knowledge of your experiences is valuable to us and others who may be undertaking similar work. Please be as honest as you can in answering the questions – remember that negative experiences are just as valuable as positive ones if they help others to learn from them.

Please complete the form in English and be as clear and concise as you can. Please note that the information may be edited for clarity. We will ask for further information if required. If you have any other materials produced by the project, particularly a few relevant photographs, please send these to us separately.

Please submit your final report to jane@rufford.org.

Thank you for your help.

Josh Cole, Grants Director

| Grant Recipient Details | |
|----------------------------|---|
| Your name | Mariana Bueno Landis |
| Project title | Effects of hunting and population density of southern muriqui (<i>Brachyteles arachnoides</i>) in the Atlantic Forest, Brazil |
| RSG reference | 13109-1 |
| Reporting period | 02/2013 – 03/2014 |
| Amount of grant | £3000 |
| Your email address | marianalandis@gmail.com |
| Date of this report | 17/03/2014 |

1. Please indicate the level of achievement of the project's original objectives and include any relevant comments on factors affecting this.

| Objective | Not achieved | Partially achieved | Fully achieved | Comments |
|---|--------------|--------------------|----------------|---|
| Characterisation of hunting activity and quantifying their occurrence in SPCB | | | X | Interviews with neighbourhoods surrounding the SPCB allowed the characterisation of the hunt as well as the identification of sites with greater intensity of activity |
| Acquire knowledge about the profile of hunters | | | X | Also obtained from interviews with the surrounding communities |
| To estimate the population density of southern muriquis in areas with and without hunting pressure | | | X | The methodology for line-transect census was possible to estimate the density in three areas with different anthropogenic interference. |
| Evaluate of the effects of hunting pressure on the population residing in SPCB | | | X | The study allowed the comparison of areas and indicated the need for more studies focusing on the southern region of SPCB. |
| Contributing to the two priority goals of the National Action Plan for the Conservation of Muriquis | | | X | Information acquired are of great importance, generating information necessary for the conservation of muriqui at the location where lives the largest population of the specie |

2. Please explain any unforeseen difficulties that arose during the project and how these were tackled (if relevant).

Initially the topography was a factor that hindered the process of opening transects and conducting census, making it difficult to obtain field assistance.

The greatest difficulty for the completion of the project was the climate of the region, which is very rainy, it delayed the census and hindered the achievement of expected mileage. But with the high number of sightings obtained was possible to obtain accurate results for the estimation of population density.

3. Briefly describe the three most important outcomes of your project.

- This study allowed us to estimate the population of southern muriqui from north region of the SPCB, this being the largest population already described for the species.
- The three analysed areas was not different in the abundance of muriqui. Even though these areas suffer different anthropogenic pressures, this suggests that muriquis has not been hunting in the northern region.

- Although population located at north of SPCB not being hunting, the data suggest that the species living in the south of the park has been reduced by this illegal activity, requiring better oversight and management strategies.

4. Briefly describe the involvement of local communities and how they have benefitted from the project (if relevant).

The local community was extremely important for this work, because the data related to hunting pressure. The information acquired through interviews, with residents surrounding the SPCB, allowed a greater understanding of the pressures currently impacting the conservation unit, enabling the development of mitigation measures for such pressures.

5. Are there any plans to continue this work?

The idea is to start a greater involvement with the surrounding communities of the study area, to insert them into an ecotourism project, generating income for those communities that currently impact SPCB species. In addition, there are plans to expand the study to the southern region of the SPCB, which was identified a higher incidence of illegal activities affecting muriquis and other important species.

6. How do you plan to share the results of your work with others?

Part of the results was presented in August 2013, at Latin American Congress of Primatology.

The complete work will be initially presented at master's defense, and subsequently all material produced will be available at the Federal University of São Paulo library.

In August 2014, part of the results will be presented at 25th Congress of the International Primatological Society, in Vietnam.

During this year, the data will be published in scientific papers related to the areas of conservation and primatology.

7. Timescale: Over what period was the RSG used? How does this compare to the anticipated or actual length of the project?

The RSG was used throughout the field data collection for the population census, interviews and analysis of habitat during a period of one year. At the moment the project is in final analysis, forecasting completion in May 2014.

8. Budget: Please provide a breakdown of budgeted versus actual expenditure and the reasons for any differences. All figures should be in £ sterling, indicating the local exchange rate used.

| Item | Budgeted Amount | Actual Amount | Difference | Comments |
|---------------|-----------------|---------------|------------|----------|
| Carving Knife | 8 | 8 | 0 | |
| Tape measure | 8 | 8 | 0 | |

| | | | | |
|--------------------------------------|-------------|-------------|----------|--|
| Permanent markers | 3 | 3 | 0 | |
| Flagging tape | 40 | 40 | 0 | |
| Nikon Prostaff Laser Rangefinder | 340 | - | 340 | Provided by Pro-muriqui association |
| Binoculars Bushnell Waterproof 10x42 | 185 | 215 | -30 | |
| GPS Garmin 62SC | 340 | 480 | -140 | Model 62S was not available, I had to buy 62SC |
| Fuel | 940 | 1050 | -110 | |
| Toll | 380 | 380 | 0 | |
| Lodging | 445 | 455 | -10 | |
| Field Assistant daily rate | 300 | 350 | -50 | |
| Total | 2989 | 2989 | 0 | |

The differences between budgeted and actual amount is due exchange rate assumed: In application £1 = R\$ 3, 42. Exchange Rate used by the Bank at the time of grant acceptance: £1, 00 = R\$2, 88 (16/03/13).

9. Looking ahead, what do you feel are the important next steps?

The next step will be the publication of results in scientific papers and the development of strategies to minimise the impacts of hunting in areas identified from the data.

10. Did you use the RSGF logo in any materials produced in relation to this project? Did the RSGF receive any publicity during the course of your work?

Yes.

- 'Imagem Verde' Magazine (attached document, page 34)
- II Latin American Congress and XV Brazilian Congress of Primatology – oral presentation

11. Any other comments?

Nat Geo channel exhibited a TV series "Parks of Sao Paulo". Each episode shows one State Park. On March 15th, the episode was about Carlos Botelho State Park, where I was invited to talk about the importance of muriquis and talk about my project.

Follow the link with episode information:

<http://www.natgeo.com.br/br/especiais/parques-sp/episodios/#13467>