

## Final Evaluation Report

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Your Details	
<b>Full Name</b>	Tainá Sherlakyann Alves Pessoa
<b>Project Title</b>	Conservation Of Large And Medium Size Mammals In Biodiversity-Friendly Agricultural Systems Of The Brazilian Caatinga
<b>Application ID</b>	20547-2
<b>Grant Amount</b>	£5000
<b>Email Address</b>	pessoa.tsa@gmail.com
<b>Date of this Report</b>	08/02/2019

**1. 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
To Inventory mammals of medium and large size in the Catimbau National Park, Pernambuco				Despite the delay in gathering this data due to the procedure of receiving the cameras trap, this objective was successfully achieved.
To estimate how the distance from agricultural areas to the adjacent forest and the proportion of wildlife friendly habitat influence the occurrence of medium and large mammals				The spatial variables W (wildlife friendly habitats) and D (distance) were analysing of satellite images.

**2. Please explain any unforeseen difficulties that arose during the project and how these were tackled.**

Several areas inside the Catimbau National Park have sandy soil, which requires the use of tracked vehicles for access. The fieldwork was impaired due unavailability of such vehicles. To solve this difficulty, we used a tricycle owned by the field assistant, Mr. Genivaldo, which promotes our access to remote areas of PARNA Catimbau.

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

- The Catimbau National Park retains a small portion of native mammal diversity, representing approximately 18% of the total species with potential occurrence in Caatinga (Native species: *Mazama gouazoubira*, *Euphractus sexcintus* *Didelphis albiventris*, *Conepatus amazonicus*, *Galea spixii*, *Leopardus emiliae*, *Cerdocyon thous* and *Sylvilagus brasiliensis*; Exotic species: *Capra aegagrus hircus*, *Canis lupus familiaris*, *Felis catus*, *Bos Taurus*, *Equus asinus*, *Equus caballus* and *Ovis aries*).
- Native species compose communities more dependent of forest areas, but their dispersive capacity is not influenced by distance of large blocks of vegetation, which could act as source of species. Exotic species are more recluses to areas under anthropic disturbance, which provide shelter and food.

**4. Briefly describe the involvement of local communities and how they have benefited from the project.**

Close contact with the local population was maintained throughout all fieldwork. For this, was essential the participation of the field assistant, residents, as well as of

colleagues from other research groups who have accumulated experiences with the locality and promoted the encounter between the student and residents. The local community was benefited with socio-environmental information that assist in the development of their territory.

**5. Are there any plans to continue this work?**

This work will continue in the Cariri, Paraíba State, and an even more arid region than the Catimbau National Park in the Pernambuco State.

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

In December 2019, the complete work will be presented as a doctorate defence in Federal University of Paraíba. The results of this work will also be published in scientific papers and disseminated through oral presentations in scientific conferences and local meetings. There is already a manuscript in preparation to be submitted soon to the Biodiversity and Conservation journal.

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

The RSG was used for 26 months, from November 2016 to January 2019, but the actual length of project was from October 2017 to January 2019. The inventory of mammals had a long delay because schedule issues with the purchasing and receiving of equipment by "Importa Fácil Ciência", a Brazilian post office service.

**8. Budget: 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. It is important that you retain the management accounts and all paid invoices relating to the project for at least 2 years as these may be required for inspection at our discretion.**

Item	Budgeted Amount	Actual Amount	Difference	Comments
Field assistant	800	1943	1143	The cost destined for field assistant wasn't enough, because it was necessary the help of more people and more daily rate for fieldwork. This amount includes the expenses with fuel and the maintenance of the motorcycle of the field assistant.
Camera trap (Bushnell 8MP TrophyCam)	3600	2000	-1600	The money was relocated for field assistant daily rates.
Alkaline batteries	80	577	497	The cost destined for Alkaline batteries wasn't enough because it was necessary

				more alkaline batteries to complete the survey.
Memory card SD (16GB)	480	480		
Caliper rule	40		-40	The money was relocated for field assistant daily rates.
<b>TOTAL</b>	<b>5000</b>	<b>5000</b>		Exchange rate assumed: £1 = R\$ 4,64 (local currency Brazilian)

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

The park remains a scenario of conflicts related to land ownership, so it is recommended that environmental agencies concretize the expropriation in the park.

To execute the legal determinations for the park use, considering the safety of the human population that currently inhabit it.

It is important to know the response of the medium and large mammals of other areas of the Caatinga to understand how communities are structured at different levels of anthropic disturbance.

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

The RF logo was and will be used in oral presentations of this work and also will be referred in future scientific publications.

**11. Please provide a full list of all the members of your team and briefly what was their role in the project.**

**Bráulio Almeida Santos** collaborated with the experimental design, data analysis and production of scientific papers derived from the project.

**Maria Joana da Silva Specht** promoted the encounter between the student and residents.

**Janete Ferreira Andrade** provided field assistance during revision of camera traps and help the elaboration of final report and scientific papers.

**12. Any other comments?**

The financial support of RSG was very important for the success in this work, because promoted the knowledge of mammal communities in an area never studied before. We would like to thank RSG for the financial support and I truly hope to have again the RSG support for other projects to mammalian conservation in Caatinga.