

Final Evaluation Report

Your Details	
Full Name	Brenda Muñoz Vazquez
Project Title	Red brocket deer in Mexico: Conserving a key species
Application ID	23654-1
Grant Amount	£4990
Email Address	bren2801@gmail.com
Date of this Report	02/15/2022

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
Estimate red brocket deer dispersal ability between mountain cloud forest fragments				We could only catch one deer, so the conclusions from this study must be taken with care.
Determine if habitat fragmentation affects genetic diversity of red brocket deer				
Develop an environmental education program for kids and adults				
Describe the diet composition of red brocket deer				This was an extra objective of the project
Estimate the activity patterns of red brocket deer				This was an extra objective of the project

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

The main difficulty we faced was catching the temazates, since the terrain is full of ravines and slopes that prevented the capture of the deer in multiple capture attempts.

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

- We described the habitat requirements of red brocket deer resting sites.
- We were able to estimate genetic diversity of two isolated red brocket deer populations.
- We gave several talks and workshops on environmental awareness aimed at children and adults.

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

Local communities were fully involved in the project since the very first moment. In the first place, they participated actively in deer captures, so they were monetary rewarded for their work. In the second place, workshops and talks contributed to

make that local habitant see the value of their own natural resources and identify the possibilities of living in a more sustainable way. Locals were and still are committed with the project since the red brocket deer is a cinegetic species and its exploitation can represent an important economic source for the community.

5. Are there any plans to continue this work?

Yes, there are plans to continue with the work. Now we have enough basic information about the ecology, behaviour and genetic status of the species in the study area. So, the plan now is to apply this knowledge in a conservation plan and sustainable development

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

Most important results of the project were presented in several scientific and conservation congresses like: a) Student exhibition "Museo de Zoología "Alfonso L. Herrera" in Mexico City; b) Mexican Ecology congress in Queretaro, Mexico; c) Vertebrate symposium in Mexico City and d) Rufford Small Grant Conference in Guatemala. We published some of the results in a scientific article named "Resting sites characteristics of Central American brocket deer in a mountain cloud forest" in Peer journal and we are still working in other papers related with the project.

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

The grant was used for 2 years, and the project began 14 years ago.

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
GPS collar 1	1025	2706	+1681	
GPS collar 2	1025	2706	+1681	
GPS collar 3	1025	2706	+1681	
GPS collar 4	1025	2706	+1681	We could not buy this item
Auto drop system	173	382	+209	
Modify android tablet	272	259	-13	
VHF reception equipment	445	375	-70	
TOTAL	4990	11840	+6850	

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

I think that now we have to use the knowledge obtained with the research into sustainable exploitation that provide the community with economical resources, always monitoring population stability.

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?

I used the Rufford foundation logo in every presentation for academic congress. I also thanked to the foundation for the small grant in the scientific paper.

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

PhD. Ernesto Chanes Rodríguez Ramírez. Dr. Ernesto played an important role in the development of the project. He participated in all the field trips, all the attempts to capture the temazate deer and he helped in the identification of vegetal species.

Biol. Rodolfo Flores Vazquez. Biol. Rodolfo described the diet composition of red brocket deer.

Adrián Cruz Oropeza. Adrian estimated red brocket deer activity patterns during a year in sites with different fragmentation degree.

Julieth Fernanda Rodríguez Ferreira. Management of the environmental education area focusing on the perception and knowledge of the community of San Bartolo Tutotepec and Tutotepec (adults and children) about the red brocket deer located in the study area, including surveys, economic games and recreational activities with the community.

Mr. Carlos. He served as a guide and connection with other members of the community and participate substantially throughout the monitoring.

Mrs. Esperanza. Doña Esperanza provided us with accommodation during each field trip

12. Any other comments?

I thank The Rufford Foundation for the support provided, for believing in me and my project. Definitely, the economic support of the foundation had a great impact in the generation of knowledge about the red brocket deer.