

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	Nurul L. Winarni
Project title	Ecosystem Service, supporting the forest, supporting the people: Evaluating ecosystem services of forest edge for park boundary support system
RSG reference	9749-1
Reporting period	March 2012-February 2013
Amount of grant	£6,000
Your email address	nwinarni@gmail.com
Date of this report	28 February 2012

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
Evaluate and monitor the agent of pollination and seed dispersal along forest edge and at different agricultural fields parallel to it			Yes	Surveys have been conducted, data have been collected and summarised
Evaluate trees dispersed or pollinated by birds and bats along forest edge			Yes	Surveys have been conducted, data have been collected and summarised
Disseminate results to people around the area for awareness			Yes	Awareness has been carried out at elementary school nearby study site and focus group discussion was conducted among several local farmers around the area. Understanding on the function of ecosystem service is certainly needed. Awareness program should be continued if possible

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

- For objectives 1 and 2, climate was certainly the most crucial factor affecting time of data collection, particularly for bat survey. Timing of the survey was adjusted to handle this factor.
- Climate is also the important factor for objective 3. The location is in Sumatra which make team had to use ferry to cross the island (team was from Jakarta/Depok in West Java) and schedule of the ferry depends on wave situation. Therefore, schedule had to delay until February 2013.
- Edge of the Bukit Barisan Selatan National Park is mostly local people's garden which is subjected for land clearing or changing vegetation. Several bird/bat points cannot be visited due to fire for land clearing. However, number of points affected were only a few and were not affected the samples as there are enough replications
- Student's time working on the project sometimes were not fitted with the schedule of the activities. Schedule was adjusted to meet university and project schedules.

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

- Information on park boundary support system particularly on the biodiversity ecosystem services are available for Bukit Barisan National Park. Results will be presented as oral presentation (already accepted) at ATBC Asia Chapter Meeting in Banda Aceh 18-22 March 2013.

- The data provide information on the presence of bird and bats community functioning as pollinating agent and seed disperser. Their presence ensure the integrity of the forest cover of the park and guarantee that the natural regeneration system of the forest is working
- Local perceptions on birds and bats community are changing. Through this project, people just realised that some of their crops are produced because of the presence of these species.

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

There were two types of awareness activities for this project. One was carried out at the elementary school close to the study site and one was a focus group discussions (FGD) among representatives of local farmers group. During these two activities, we included local people to organise the FGD and the elementary school awareness. These people were also involved as technicians during surveys. Therefore, we hope that the information gained was from people to people. During FGD, students worked on the survey gave presentation to people by using poster contained simple information on which plants were pollinated by birds and bats and at the end, we asked people divided into teams of 3-4 people to join a simple game, configuring a puzzle.

5. Are there any plans to continue this work?

Yes, based on this project, we hope to continue the work particularly on enhancing people's understanding on biodiversity ecosystem services. The future plan is to include economist to correlate biodiversity ecosystem service to crop production. Monitoring of the biodiversity ecosystem service is also needed.

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

Poster dissemination particularly to national park, institution's website

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

March 2012-February 2013, as targetted although some of the schedule was adjusted due to several constraints such as climate or university schedule.

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
Salary primary investigator	1060	1,034.48	25.52	
Salary awareness officer and supporting staff	384	379.31	4.69	
Salary guides	700	817.24	-117.24	Additional guides needed
Awareness materials	1000	950.76	49.24	
Awareness workshop	180	108.91	71.09	
Logistics	600	606.12	-6.12	
Local travels	384	502.45	-118.45	Local travels needed

Mistnet	320	212.55	107.45	
Tickets	92	0.00	92.00	Not used. Tickets paid through other project
Flagging tapes, etc (supplies)	15	84.53	-69.53	Plus additional supplies
Binocular (equipment)	200	45.79	154.21	Used for other field equipment (headlamp etc.)
GPS	240	220.69	19.31	
Metric fabric diameter tape	50	0.00	50.00	Not used
Digital range finder	192	0.00	192.00	Not used
Books and photocopies	50	51.72	-1.72	
Indirect	533	533.00	0.00	
Total	6000	5,547.56	452.44	

Some of the unused costs such as airplane tickets, metric fabric diameter tape, and digital rangefinder were used for other expenses such as additional supplies, guides, and local travels which costs more than expected.

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

Improving community awareness through improving surveys and works which may answer the cost of crop production related to biodiversity ecosystem service

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, logo was in posters and T-shirts. There was no publications during course of the work.