

# RESEARCH SUMMARY

**Habitat management of  
critically endangered species *Aythya innotata* in Lake  
Bemanevika Protected Area and  
Sofia Lake Marotolana, Bealanana District, Region Sofia.**

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**4-14 January 2020**



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## INTRODUCTION

- Madagascar Pochard (*Aythya innotata*) : extremely rare and medium-sized diving duck
- Endemic to Madagascar
- Considered probably extinct by scientific authorities and researchers (2006)
- Rediscovered in 2006 (Rene De Roland, 2007)
- Pochard breeds on just one small lake, Matsaborimena
- Sofia Lake: potential suitable release site for Pochards



**Figure 1** : *Aythya innotata* adult mal and female in Matsaborimena lake (Rasoamihaingo , 2019)

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## OBJECTIVES and INTERESTED IN YOUR TRAINING

- Main aim : study of the species and habitat use and manipulation of the habitat in order to properly manage the sites at which it occurs
- Several potential uses for statistical modelling in this work:
  - ✓ Model survival rates of wild and translocated Pochards
  - ✓ Determining the causes of mortality leading to low breeding success in the wild population
  - ✓ Model population trends of other species at the sites where Pochards occur, including the invertebrates that Pochards eat
  - ✓ Compare the effects of habitat management interventions on aquatic plant growth and invertebrate abundance



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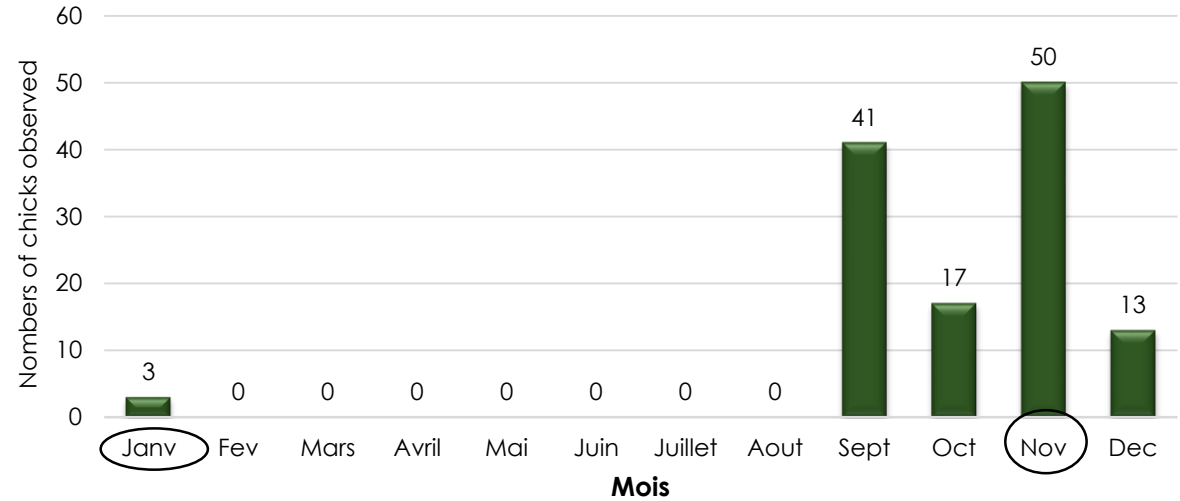
## EXAMPLES OF RESULTATS

### ❖ Breeding period and flihgt successful of chicks

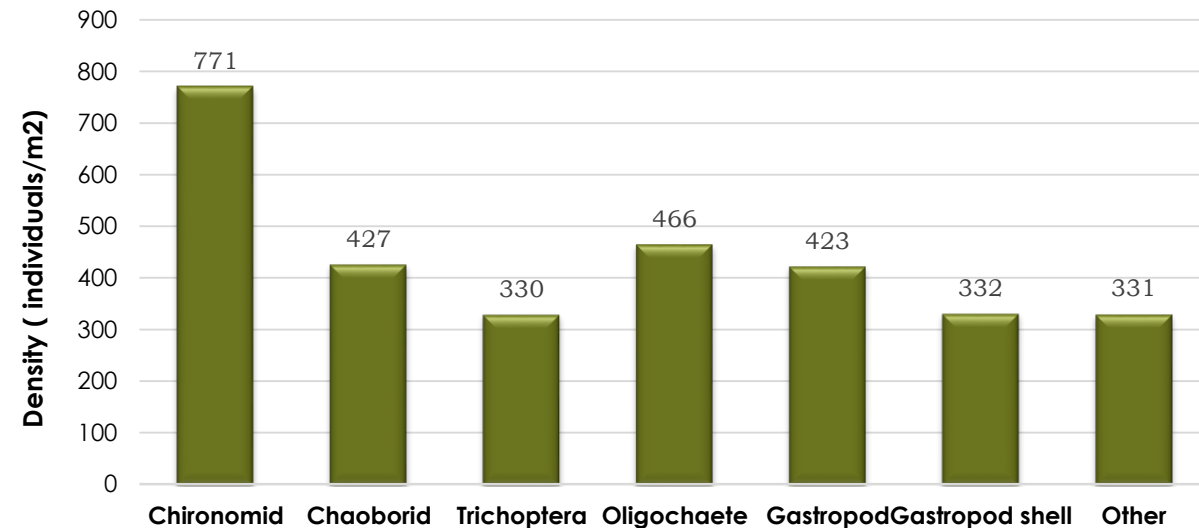
- observation of chicks 2017 and 2018
- maximum number of chicks observed in November and minimum January

### ❖ Diets

- dominated by Chrinomid with density over 771 individuals /  $m^2$
- other benthic macro-invertebrates with a density of less than 331 individuals /  $m^2$
- low density of macroinvertebrates but the site has a high specific richness



**Figure 2:** Monthly number of chicks observed between 2017 and 2018.



**Figure 3:** Density of invertebrates collected (individuals /  $m^2$ ) at the Sofia Lake.



**THANK YOU FOR YOUR KIND ATTENTION!**

