

The management of aquatic invasive alien rodents in western France

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BACKGROUND

Wetlands are threatened by many stressors, such as water ex-



traction, flow modification, pollution, and climate change¹. They are also affected by invasive alien species (IAS)² including aquatic invasive alien rodents (AIAR). In France, coypu (Myocastor coypus) and muskrat (Ondatra zibethicus) are two common AIAR and trigger widespread damage with important economic³, human health⁴ and environmental impacts⁵. The coypu is responsible for one of the highest estimated costs of IAS worldwide, with US\$19 billion of damage⁶, and its economic costs have exponentially increased during the last decades'.



THE PERMANENT CONTROL PROGRAMME OF AQUATIC INVASIVE ALIEN **RODENTS (AIAR)**

Since AIAR populations are significantly abundant and widespread in many areas of France, eradication of these two species at a regional or national level is unlikely⁸. AIAR control activities mainly based on trapping have been set to reduce the impacts of AIAR on ecosystems and human activities. The AIAR control programme involves many local and regional entities which co- ordinate the control activities of AIAR by (i) training and recruiting new volun- teer trappers, (ii) rewarding captures, (iii) providing technical and legal sup- port, and (iv) managing AIAR carcasses. Professional trappers and hunters can also be locally involved in control activities.

OUR INPUT IN THE PERMANENT CONTROL PROGRAMME

BiodivAG is interesting in analysing data of control activities of the permanent control programme. We try to understand drivers of captures and the strategy used by stakeholders in setting control activities. We have also set a scientific programme to investigate the impacts of coypus and muskrats on ecosystems.





References: 1 : Vörösmarty et al. 2000; 2: Vilà and Hulme 2017; 3: Cuthbert et al. 2021; 4: Chinchio et al. 2020; 5: Bertolino et al. 2005; 6: Diagne et al. 2020; 7: Cuthbert et al. 2021; 8 : Bonnet et al. 2023; 9 : Bonnet et al. 2021; 10 : Pays et al. *In prep*