Improved trapping technique of the American mink helps to save the critically endangered European mink in Spain

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INTRODUCTION

Spain currently holds one of the last populations of the European mink (*Mustela lutreola*). Less than 500 individuals occupy a small territory in north of country, the population shrinks steadily.

The main threat to the European mink is the presence of the American mink (*Neovison vison*). Since 2010, rapid colonization of the American mink was observed in the Ebro river basin, in the core area of the European mink. Culling effort was insufficient to stop the invasion of the alien mink in 2011-2013. In 2014, the project LIFE LUTREOLA SPAIN started, with the aim to improve the status of the European mink in Spain.

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GOALS	



The main goals of the LIFE LUTREOLA SPAIN are:

- \succ Improvement of American mink trapping techniques.
- Removal of the American mink within the range of European mink.
- Creation of monitoring network for the two species of minks.
- Reinforce the population of European mink through release of captiveborn individuals.

METHODOLOGY

An experimental trapping was carried out during September-November. > Two techniques were contrasted: conventional trapping vs mink raft method. 2014 > 252 mink rafts and traps were set for trapping in eight river sections. > The density of rafts was aprroximately 1 raft per 1 km of river.

Mink raft method was used for eradication.

2015-2017

> 1062 rafts were set in whole area of the territory of the project LIFE LUTREOLA SPAIN.

> 431 of those were placed in Ebro river basin within the range of European mink, covering the known area occupied by American mink.

> 136 additional rafts were placed to detect the presence of American mink (projects of Biodiversity Foundation, La Rioja and Alava Regional Governments).













1:800 000 working area 2017 American mink European mink

Conclusions:

- > The European mink remains scarce in a large part of its range in Spain, the main threat is the presence of the American mink.
- > Mink raft method is very effective and allows to eradicate the American mink populations locally.
- Systematic trapping strategy is essential to achive success.

