



Operational Groups:

Control of invasive species *Vespa velutina* and losses minimization in beekeeping production and honey production.

Controlo e minimização de prejuízos da espécie invasora Vespa velutina nigrithorax (Vespa velutina) na produção apícola

Practical problem

The *Vespa velutina* is a predatory species of the European bee, with consequences that are manifested in beekeeping and honey production and derivatives. Due to its advance to urbanized areas, it begins to be a social problem.

Partners

Type:

Research
Agri Association:

Other Association:

Local Administration:
Farmers

Name:

Universidade de Trás-os-Montes e Alto Douro (UTAD)

ApiMarão – Associação de Apicultores da Serra do Marão; APFMP – Associação de Produtores Florestais de Montemuro e Paiva
Dolmen - Desenvolvimento Local e Regional, CRL; ADER-SOUSA – Associação de Desenvolvimento Rural das Terras do Sousa
Município de Amarante
Joaquim Madureira; Alexandre Joaquim Pinto Morais; Avelino Luís Coelho da Mota Ribeiro

Project

Objectives:

Vespa velutina dispersion throughout the North Portugal is growing every year. This way, it is necessary to know the morphological and ecological conditions that favor its activity in order to reduce its presence in invaded areas to control its advance.

Expected results:

To create a GIS project with all the occurrences;
To create a space-time dispersion model based on spatial analysis;
To create a wasp nests search model ;
To model *Vespa* dispersion and create invasion potential maps; To develop a trap suitable to control the attack on the hives and weaken the *Vespa* nests.

Results so far/first lessons:

A provisional wasp dispersion model has already been created A model of trap and bait is already being tested

Who will benefit:

Beekeepers; Farmers; Populations of areas already invaded by *vespa velutina*;
City councils; Civil Protection Office

Start: January/2018
End: August/2021

Budget: 295.000 €

