



# QuantiPest, a collaborative platform to help quantify injuries and pest populations in fields.

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 (access: QuantiPest is available in the Virtual Laboratory, room « research platforms »)

## > Aim of the QuantiPest Platform

Sound characterisation of injuries and pest populations is required to conduct cropping systems and to assess the efficacy of diverse control methods and IPM/ICM strategies. The aim of QuantiPest is to **help design protocols to characterise pest injuries or pest populations** by providing the most relevant information sources, methods and protocols. The platform is not aimed at listing all available protocols used to characterise pest populations and injuries at the field level, but rather to provide references, methods and tools to help the development of protocols adapted to specific objectives.

## > Two methods to reach information

### > Knowledge areas

Pedagogical and user-friendly pages (e.g. interactive links, pictures with detailed legends) are organised and accessible through a tree with 3 main areas:

- Pest and pest injury **identification**
- Pest and pest injury **quantification**
- Tools and methods for **sampling**



Screen shot of the presentation page of QuantiPest with the menu on top, which allows to access the various sections.

Screen shot showing a knowledge valorisation page that includes text and pictures. Related documents are listed at the bottom of the page.



## > Specific functionalities

### > Collaborative functions

Users can comment and discuss the information provided by the platform, and suggest other approaches or references

### > Picture-based tool to assist identification

An user-friendly tool can help users identify pests and pest injuries using a set of pictures

### > Development and use of training programs

Training programs are provided to improve users' ratings or identification skills of various pests or injuries. New training programs using various sets of multiple-choice questions based on pictures can also be developed

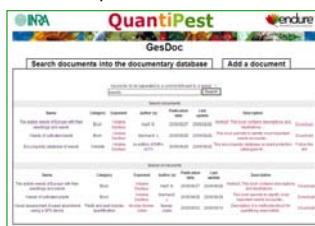


Screen shot of a training program developed under QuantiPest

## > Documentary management database

A documentary database indexes all relevant documents.

An input mask allows users to feed in the database and a multicriteria research is proposed to facilitate the access to precise information.



Screen shot showing the result of a research with the keyword « weeds ». Documents are available by clicking on « follow the link » or « download »

## > Type of information

Website links, article/book references, pictures, documentation on sampling methods, methodological studies and methodological tools, protocols, scales for pest population and injury characterisation, numeric algorithms, computer aided programs for training purposes

**Most of the resources needed are already available, within ENDURE research activities, or on outside of the network. They can also be created by working groups**

## > Benefits for researchers and crop protection specialists

- Help in the development of protocols. **Time-saving in regard to the identification of available and synthetic information** to characterise an injury, a pest population, or pests on a given crop.
- Identification of possible **Standardisation** of protocols. Data collection on experimental networks should be facilitated
- Support for **methodological reflexions**
- Promotion of **grey literature and expertise** inside the network



The QuantiPest platform is an initiative of the INRA Integrated Pest Management Network.

To know more about the IPM Network, contact

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ENDURE is the European Network for the Durable Exploitation of Crop Protection Strategies. Eighteen organisations in 10 European countries are committed to ENDURE for four years (2007-2010), with financial support from the European Commission's Food Quality and Safety programme.