

GIS-based information system for the prediction of the risk of mycotoxin contamination in cereals

Riferimenti

Tipo di progetto

Gruppo Operativo

Acronimo

SERVICE

Tematica

Difesa da malattie e infestazioni

Information

Time frame

2019 - 2023

Durata

51 months

Partners (no.)

5

Regione

Emilia-Romagna

Comparto

Cerealicoltura

Localizzazione

ITH51 - Piacenza

ITH56 - Ferrara

ITH58 - Forlì-Cesena

Costo totale

€248.493,25

Fonte di finanziamento principale

Programma di sviluppo rurale

Programma di sviluppo rurale

2014IT06RDRP003: Italy - Rural Development

Programme (Regional) - Emilia Romagna

Parole chiave

Pest /disease control

Food quality / processing and nutrition

Agricultural production system

Sito web

<https://rinova.eu/it/progetti/service-previsione-delle-micotossine-nei-cereali/>

Project status

completed



Objectives

The management of the risk of contamination by mycotoxins remains, in particular on maize, the key problem of cultivation at national level to obtain a high quality production. The project involves the improvement of the joint risk prediction model from mycotoxins (aflatoxinsfumonisins) and the construction of a GIS-based IT platform that allows agricultural companies and technical assistance structures to consult territorial maps, rather than synthetic indexes, regarding the risk, during the harvesting, of contamination from mycotoxins in cereals

Activities

This objective will be pursued by evaluating, both in the field and in the laboratory, some genotypes in an advanced selection phase. Overall, there are about 50 apple and pear tree selections, for which it is therefore intended to continue the evaluation, both in integrated and organic cultivation, in order to express an opinion about the possible commercial diffusion of the most promising ones. The fruits of the potential new varieties will also be subject to a panel test and consumer test, in order to verify the level of satisfaction and the propensity to purchase by the consumer.

Sistema informativo GIS-based per la previsione del rischio di contaminazione da micotossine nei cereali

<https://www.innovarurale.it/pei-agri/gruppi-operativi/bancadati-go-pei/sistema-informativo-gis-based-la-previsione-del-rischio>

2/3

Partenariato

Role	Azienda	Address	Telephone	E-mail
Leader	CRPV Soc. Coop. Centro Ricerche Produzioni Vegetali	Via dell'Arrigoni 120 47522 Cesena FC Italy	0547313571	ortofrutticola@crpv.it
Partner	Agronica group s.r.l.	Via Calcinaro 2085 47521 Cesena FC Italy	0547 632933	com@agronica.it
Partner	DINAMICA s.c.a r.l.	Via Bigari 3 40128 Bologna BO Italy	051 360747	info@dynamica-fp.it
Partner	Grandi Colture Italiane Società cooperativa agricola	Via Eridano 4/A 44122 Ferrara FE Italy	0532747811	scudellari@grandicolture.it
Partner	Università Cattolica del Sacro Cuore - Sede di Piacenza	Via Emilia Parmense 84 29122 Piacenza PC Italy	0523 599121	uff.ricerca-pc@unicatt.it

Pratice abstract

Description

The main results exspected are:

- Creation of a GIS-based IT platform with controlled access allowing the technical and / or storage structure or the agricultural producer to consult territorial maps of mycotoxin risk relative to the farms or areas of their competence.
- Automation of risk forecasts with the daily import of meteorological data from the regional mereorological service network and from any corporate weather sensor
- Improvement of the organization of the harvest based on the risk forecast, rationalizing also the postharvest logistics and the choice of destination of use of the products obtained and concentrating grain sampling and analysis in areas in potentially high-risk area.

Link utili

Titolo/Descrizione	Url	Tipologia
Sito web del progetto	https://rinova.eu/it/progetti/service-previsione-delle-micotossine-nei-cereali/	Sito web

Titolo/Descrizione	Url	Tipologia
Video del progetto	https://www.youtube.com/watch?v=BsSUxiBCY2I	Materiali utili
Video Tutorial consultazione DSS per la previsione del rischio micotossine nei cereali	https://www.youtube.com/watch?v=BsSUxiBCY2I	Materiali utili