

Messa a punto di un sistema dinamico automatico di copertura anti pioggia, antigrandine e antinsetto per la copertura del ciliegio

1/4

<https://www.innovarurale.it/pei-agri/gruppi-operativi/bancadati-go-pei/messa-punto-di-un-sistema-dinamico-automatico-di>

Performance trialing of a dynamic, automated cherryorchard cover system to protect crop against rain, hail and pests

Riferimenti

Tipo di progetto

Gruppo Operativo

Acronimo

COPERTURE CILIEGIO

Tematica

Difesa da malattie e infestazioni

Information

Time frame

2016 - 2019

Durata

36 months

Partners (no.)

7

Regione

Emilia-Romagna

Comparto

Frutticoltura

Localizzazione

ITH54 - Modena

ITH55 - Bologna

ITH58 - Forlì-Cesena

Costo totale

€159.993,00

Fonte di finanziamento principale

Programma di sviluppo rurale

Programma di sviluppo rurale

2014IT06RDRP003: Italy - Rural Development

Programme (Regional) - Emilia Romagna

Parole chiave

Agricultural production system

Sito web

<https://progetti.crpv.it/Home/ProjectDetail/17>

Project status

completed



Objectives

The proposed Project's primary goal is to devise an innovative, fully automated system providing integral protection of new and extant cherry orchards using cover sheets and netting that open and close automatically vis-à-vis impending weather conditions, plant health risks and, especially, pest attacks.

Activities

The submitted proposal calls for setting up and testing an innovative system combining netting and sheeting layers that are fully automated so as to open and close in immediate response to weather conditions and impending risk of crop pest infestations. It is in effect a two-stage system trial. The first is to focus on the conversion of an existing, manual covering to the new automated one without altering trellis wires and posts. The second is to establish outright a prototype of the new innovative and completely automated system.

Partenariato

Messa a punto di un sistema dinamico automatico di copertura anti pioggia, antigrandine e antinsetto per la copertura del ciliegio

2/4

<https://www.innovarurale.it/pei-agri/gruppi-operativi/bancadati-go-pei/messa-punto-di-un-sistema-dinamico-automatico-di>

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Pratice abstract

Description

The main result expected is to be the delivery of two fully automated prototypes of cover systems suitable for both new and extant cherry orchards that confer the following advantages upon installation: effective defence against adversities both abiotic, like cracking, and biotic, like attack by *Drosophila suzukii* and *Halyomorpha Halys*, improved tree photosynthetic efficiency, uniform fruit ripening on each tree, potential to schedule harvest date even vis-à-vis rain events, reduced incidence of fungi attacks for a healthier crop, saving of overhead time via faster system opening and closing, potential use of cover system as defence against frost, and saving of overhead cost vis-à-vis single-row cover systems.

Main project benefits/opportunities for end-users:

- Less environmental fallout resulting from reduced number of spray treatments and polluting chemicals released.
- Potential for reducing overall capital outlays due to longer orchard life, lower overhead costs for managing automated cover system that is even installable in extant orchards.
- Assurance of achieving higher quality commercial crop yield even in seasons of frequent rainfall or marked by emergency

Messa a punto di un sistema dinamico automatico di copertura antipioggia, antigrandine e antinsetto per la copertura del ciliegio

3/4

<https://www.innovarurale.it/pei-agri/gruppi-operativi/bancadati-go-pei/messa-punto-di-un-sistema-dinamico-automatico-di>

plant health threats that are usually hard to control effectively.

- Potential for growing and producing early- and very early-season cherry cultivars particularly susceptible to cracking.
- Higher quality fruit and assurance of constant cropping over time.

Link utili

Titolo/Descrizione	Url	Tipologia
Sito web del progetto	https://progetti.crpv.it/Home/ProjectDetail/17	Sito web
Coperture automatizzate per il frutteto - Rivista Agricoltura lug/ago 2017	https://progetti.crpv.it/File/DownloadFile/137?name=CopertureFruttetto.pdf%29	Materiali utili
Coperture: soluzione finale contro insetti, pioggia e grandine - Terra è Vita 18-2017	https://progetti.crpv.it/File/DownloadFile/328?name=CopertureCiliegioTerraVita...	Materiali utili
Reti antipioggia: ecco le migliori soluzioni possibili - FreshPlaza.it 21-06-2019	https://progetti.crpv.it/File/DownloadFile/282?name=FRESHPLAZARetiAntipioggia21...	Materiali utili
Reti multifunzionali per proteggere i frutteti da grandine, pioggia e insetti - Agrimpresa	https://progetti.crpv.it/File/DownloadFile/329?name=Agrimpresa9-2018.pdf%29	Materiali utili
Video - Presentazione di un primo prototipo di sistema automatico di copertura antipioggia, antigrandine e antinsetto per i nuovi impianti di ciliegio	https://www.youtube.com/watch?v=ZKyCS0Yy23Q%29	Materiali utili

Messa a punto di un sistema dinamico automatico di copertura antipioggia, antigrandine e antinsetto per la copertura del ciliegio

4/4

<https://www.innovarurale.it/pei-agri/gruppi-operativi/bancadati-go-pei/messa-punto-di-un-sistema-dinamico-automatico-di>

Titolo/Descrizione	Url	Tipologia
Video - GOI - Coperture Ciliegio: teli e reti automatiche antipioggia, antigrandine, antinsetto	https://www.youtube.com/watch?v=WLyztu-Zh70%29	Materiali utili