

Agroecological Cover - Cover crops to increase soil organic matter and reduce weeds

Riferimenti

Tipo di progetto

Gruppo Operativo

Acronimo

COVER

Tematica

Difesa da malattie e infestazioni

Information

Time frame

2016 - 2019

Durata

36 months

Partners (no.)

7

Regione

Emilia-Romagna

Comparto

Multifiliera

Localizzazione

ITH53 - Reggio nell'Emilia

Costo totale

€166.146,00

Fonte di finanziamento principale

Programma di sviluppo rurale

Programma di sviluppo rurale

2014IT06RDRP003: Italy - Rural Development

Programme (Regional) - Emilia Romagna

Parole chiave

Soil management / functionality

Farming practice

Agricultural production system

Sito web

<http://cover.crpa.it>

Project status

completed



Objectives

- To develop innovative conservation agriculture systems based on the use of cover crops, temporary or perennial, which allow to take advantage of the principles of agroecology to get a wide range of agronomic and environmental benefits.
- Reverse both the organic matter reduction trend and the increase in weeds.
- Define the most suitable cover crops for use in the soil and climate conditions of the Emilia-Romagna region, and the agronomic management methods for these.
- Evaluate the agronomic effects, environmental and economic sustainability of the innovative farming practices, with the aim to promote a conscious transfer to farms.

Activities

- Selection of temporary cover crops (winter cover) and perennials.
- Cover crops cultivation, control of their development, termination of the temporary cover crops.
- Cultivation of spring-summer cereals (maize, sorghum) or soybean, as main crops alternating with cover crops.
- Assessment of the yields of the main crops and their quality characteristics;
- Assessment of the effects on the soil and economic-environmental sustainability (Carbon Footprint) of the proposed innovative systems.
- Training activities, technical-scientific and educational dissemination, including through the EIP-AGRI network.

Cover agroecologiche - Colture di copertura per l'incremento della sostanza organica del suolo e il contenimento delle malerbe

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<https://www.innovarurale.it/pei-agri/gruppi-operativi/bancadati-go-pei/cover-agroecologiche-culture-di-copertura-lincremento>

Partenariato

Role	Azienda	Address	Telephone	E-mail
Leader	Fondazione CRPA Studi Ricerche	Viale Timavo 43/2 42121 Reggio Emilia RE Italy	0522- 436999	info@fondazionecrpa.it
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Partner	Società Agricola Ciato	Strada Pilastro Panocchia 8 43124 Parma PR Italy	0521 630082	info@ciato.it
Partner	Università Cattolica del Sacro Cuore - Dipartimento di Scienze delle produzioni vegetali sostenibili (DI.PRO.VE.S.) - Piacenza	Via Emilia Parmense 84 29122 Piacenza PC Italy	0523 599269	diproves-pc@unicatt.it
Partner	Università degli Studi di Parma - Dipartimento di Scienze Economiche e Aziendali	Via J. Kennedy 6 43125 Parma PR Italy	0521 032496	protocollo@pec.unipr.it

Pratiche abstract

Description

Several farms in the Po Valley in recent decades have experienced a significant decrease in organic matter content of soils, with consequent negative effects on fertility and workability.

At the same time the infestation due to some weeds has become chronic, requiring heavy herbicides applications.

The Operational Group will develop innovative conservation agriculture systems based on the use of cover crops, temporary or perennial, which allow to take advantage of the

principles of agroecology to get a wide range of agronomic and environmental benefits, e.g. organic matter production, nutrients recycling, soil protection from heavy rains and intense heat, competition with weeds, others.

Cover agroecologiche - Colture di copertura per l'incremento della sostanza organica del suolo e il contenimento delle malerbe

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<https://www.innovarurale.it/pei-agri/gruppi-operativi/bancadati-go-pei/cover-agroecologiche-colture-di-copertura-lincremento>

The project will consider both temporary cover crops, which can be inserted in the rotation between main crops and must be "finished" in a natural way (i.e. freezing) or artificial (chemical or mechanical termination), and perennial cover crops like alfalfa, which can allow to practice conservation agriculture on an alive and durable vegetation cover.

The simultaneous cultivation of different species in a mixture may maximize the positive effects of cover crops with complementary characteristics.

The proposed agronomic paths are absolutely 'pioneering' in the Emilia-Romagna region, while in other European countries (such as France, for example) cropping systems that are founded on the principles of agroecology are getting gradually more widespread.

Link utili

Titolo/Descrizione	Url	Tipologia
COVER	http://cover.crpa.it	Sito web
CRPA	http://www.crpa.it	Altro
Fondazione CRPA	http://www.fondazionecrpa.it	Altro
GOI CRPA	http://goi.crpa.it	Altro
Articolo su Informatore Agrario	http://cover.crpa.it/media/documents/cover_www/Pubblicazioni/Cover-vantaggi-agr...	Materiali utili
articolo del 2 ottobre 2019 pubblicato sulla rivista Terra e Vita	http://terraevita.edagricole.it/tecnica-e-tecnologia/colture/cover-crop-agroeco...	Materiali utili
Articolo su Agricoltura Conservativa	http://cover.crpa.it/media/documents/cover_www/Pubblicazioni/Cover-ritorno-alla...	Materiali utili
Relazione tecnica finale	https://agricoltura.regione.emilia-romagna.it/progetti-innovazione/raccolta-pro...	Materiali utili