

## Carbocert – Quantification and certification of organic carbon in Mediterranean agricultural soils

### Short description of the OG

The general objective of the Carbocert project is to identify management strategies to increase the carbon sequestered and stored in agricultural soils and in the fixed and permanent plant structures of the main Mediterranean crops (olives, citrus, wheat, rice, almonds and vines), as well as to establish methodologies to quantify and certify these removals. This is all in light of the sector's need to adapt to the new climate change scenario characterised by extreme weather conditions in the Mediterranean area.

### Benefits

Increasing organic carbon sequestration makes soils more resistant to erosion, increases their water retention capacity, enhances their fertility for plants and helps improve biodiversity.

Additionally, this project provides a methodology to make it possible to certify the carbon sequestration obtained by applying the best practices identified.

### Stage of implementation

The Carbocert project was completed in December 2020.

### Key Data Box

#### Theme

Carbon sequestration; climate change adaptation; climate change mitigation; mulching; main Mediterranean crops

#### Context

The main crops (olives, citrus, wheat, rice, almonds and vines) in the Mediterranean area of Spain.

#### Application time

All year or seasonal application, depending on each crop.

#### Required implementation time

Varies depending on crop and practice.

#### Period of impact

Mid- to long-term, depending on the practice.

#### Equipment

Equipment needed is dependent on each practice.


### Main achieved or expected results

- Specific methodologies were identified for the quantification of carbon sequestration and storage, both in agricultural soils and in the fixed permanent structures of woody crops.
- Best practice guide aimed at farmers to apply the different agricultural management strategies validated by the project.
- A sequestered carbon certification methodology was defined and implemented; it considers the evolution of carbon in the soil and is applicable at both farmer and agricultural holding levels.

## Existing materials

### Videos

OG presentation:

 [https://www.youtube.com/watch?v=tpjvQ3MqcfQ\\_channel=CLIMED-FRUIT](https://www.youtube.com/watch?v=tpjvQ3MqcfQ_channel=CLIMED-FRUIT)

 <https://www.une.org/SiteAssets/PresentacionGOCARBOCERT>

### Web links

Project presentation:

 <https://www.en.une.org/cooperacion/carbocert>

 <https://gocarboCERT.es/>

### Further reading

Carbocert best practice guide:

 [https://www.une.org/Cooperacin\\_documentos/GUIA\\_CARBOCERT.pdf](https://www.une.org/Cooperacin_documentos/GUIA_CARBOCERT.pdf)

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**Project website:** <https://climed-fruit.eu/>

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