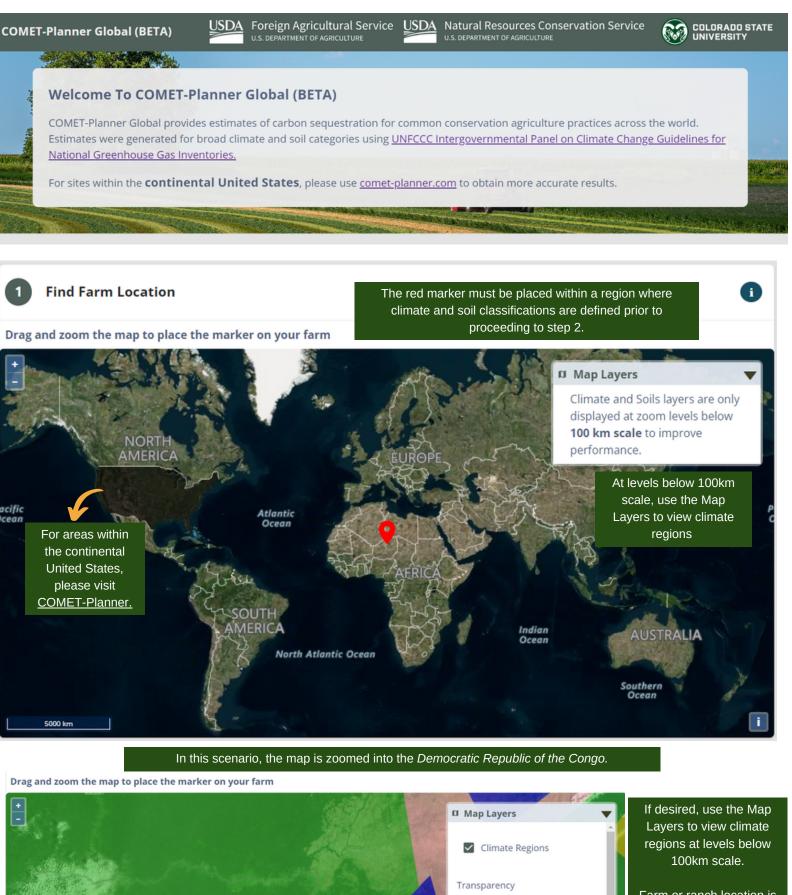
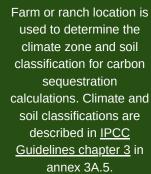
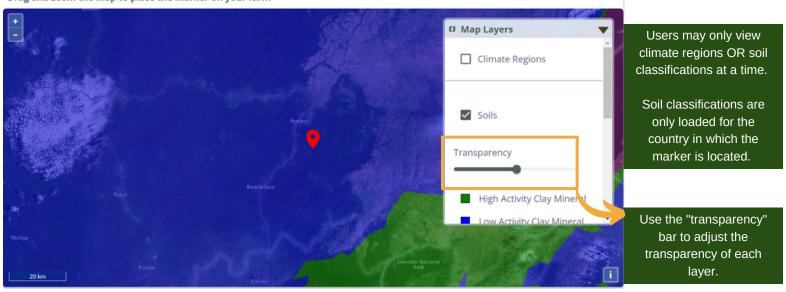
Navigating COMET-Planner Global





Drag and zoom the map to place the marker on your farm





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Natural Resources Conservation Service

Boreal Dry

Boreal Moist

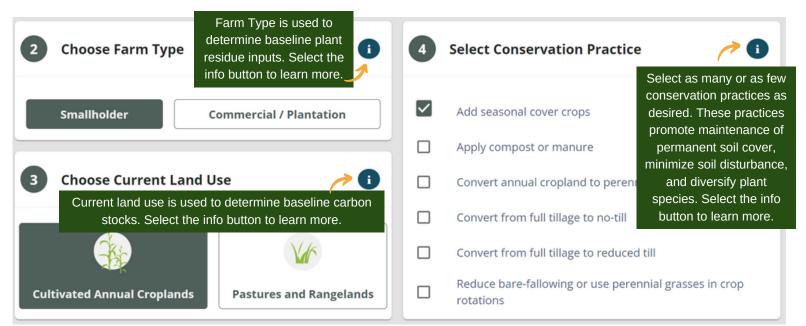
Cool Temperate Dry

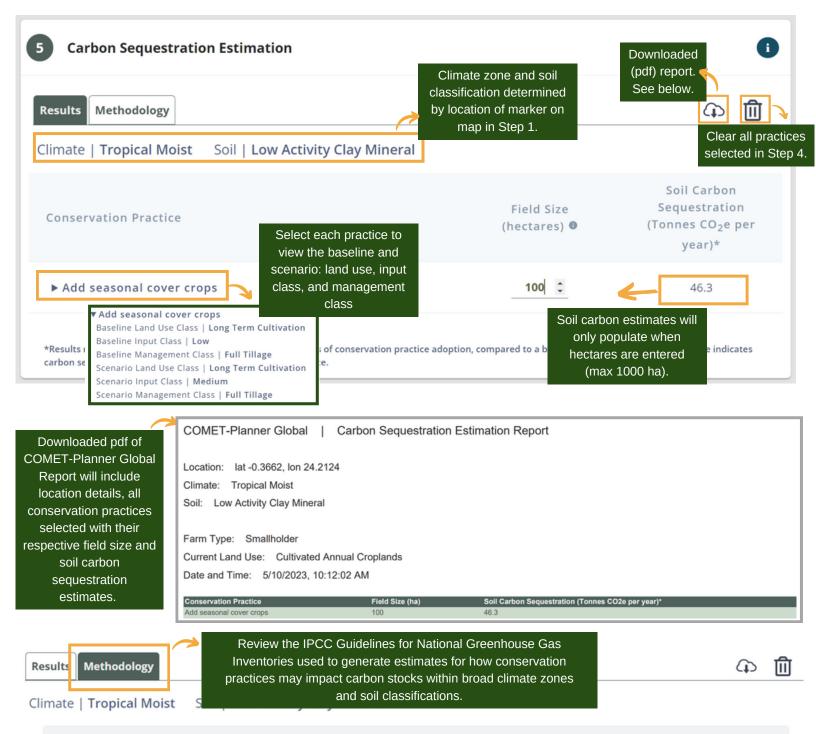
Cool Temperate Moist



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Methodology

Carbon stock changes due to adoption of conservation agriculture practices were estimated using <u>UNFCCC Intergovernmental Panel on Climate</u> <u>Change (IPCC) Guidelines for National Greenhouse Gas Inventories.</u> This methodology was designed for national inventories and not site level quantification, however it was used in COMET-Planner Global as a general estimate for planning purposes and to understand how conservation practices may impact carbon stocks within broad climate and soil categories. The analyses for this tool employed the Tier 1 methods, as described in the <u>Introduction of Volume 4: Agriculture, Forestry and Other Land Use</u>.

In the initial version of the tool, only emissions for carbon stock changes in mineral soils were evaluated, but future versions of the tool will include additional greenhouse gas emission source categories related to agricultural land use. The Tier 1 method for soil carbon stock changes can be found in <u>Chapter 2, Generic Methodologies Applicable to Multiple Land-Use Categories</u>. Additional details related to specific land use categories for this tool can be found in <u>Chapter 5, Cropland</u> and <u>Chapter 6, Grassland</u>. Additional land use categories may be added in future versions of the tool.

Conservation agriculture practices included are those that are common and have been shown to increase soil carbon stocks, according to the IPCC Tier 1 method. According to that method, not all practices increase soil carbon in all climate zones, therefore practices were only included in climate zones where they have a carbon benefit relative to conventional practices.

Additional documentation is under development that will provide more detail on the calculations, as well as assumptions for baseline carbon stocks, and descriptions of the conservation agriculture practices.



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