

## Canadian Crop Carbon Footprint Lookup Tool

General description of the tool

Category	Outcome-based
Objective	To demonstrate compliance with the GHG emissions requirements of the EU Renewable Energy Directive To provide the carbon footprint associated with the production of 1 tonne of crop in the Prairie Provinces of Canada
Geographical applicability	Canada (Prairies)
Functionalities	Provide a footprint value/metrics
Target audience	Farmers and food supply chain managers
Developers	Agriculture and Agrifood Canada (AAFC) and Canola Council of Canada - latest update: 2014
Format	Excel file to download
Cost (tool and data)	Free
Past or current users	Cargill

Website:

[http://www.canolacouncil.org/media/560794/cropcflookup\\_1.0.xlsx](http://www.canolacouncil.org/media/560794/cropcflookup_1.0.xlsx)

Factsheet

### Commodities covered

Canola

### BMPs covered

None

### Indicators covered

GHG emissions



## Data inputs



### Data requirements

#### Primary data required

#### Default values

Data requirements	Primary data required	Default values
Environmental conditions	Crop type, province, and legal land description (township, range, section, quarter-section, meridian)	n/a - no default value
Crop management	No	n/a - no default value
Carbon sequestration/storage	No	n/a - no default value
Livestock	n/a	n/a - no default value
Energy use	No	n/a - no default value
Primary processing	No	n/a - no default value
Water	No	n/a - no default value
Transport	No	n/a - no default value
Others	No	n/a - no default value



### Scope

Farm level

Supply chain



### Ease of use for the data collector

Very easy, very quick to fill - all information can be filled quickly and easily by the producer



## Modelling methods



### Consistency of the model with the goal and scope of the tool

Consistent - the model provides a single result for the carbon footprint of 1 tonne of crop to quickly check for compliance with EU Renewable Energy Directive



### Transparency and quality of documentation

Guidance document: Yes - instructions are given directly in the tool

Methodology document: No, lack of transparency - no background information publicly available



### Conformity of the methodology with the current state-of-the-art agronomic and environment sciences

Fairly consistent (according to the information available) - carbon footprint values are approved for the International Sustainability and Carbon Certification (ISCC) sustainability certification scheme



### Methodology



GHG emissions calculation based on the results of a study done in 2014



### Dataset sources used for modelling

Not disclosed

## Outputs / Results

-  **Results**  Final value only
-  **Analysis** No analysis available

## Limits of the tool/model

Only 2 crops are included in the model and the results are only based on the location of the farm. Cannot be specific to a particular farm.