Introduction to ‘Cool Farm Tool 2.0’

September 2018
Welcome to the Cool Farm Tool

Select the pathway for the crop or livestock product you want to assess. Alternatively, view your existing assessments by clicking "My assessments" on the menu bar.

Cool Farm Tool 2.0 New Features include: new pathways and metrics, enhanced user interface, better results, improved integration and much more.

CROPS
- Potato
- Rice
- Other crops

LIVESTOCK
- Beef
- Dairy
- Other livestock

WHOLE-FARM ASSESSMENT
- Biodiversity

New beef
Pathway added
All existing user assessments transferred to CFT2.0

Header arrows for sorting alphabetically
New assessment

First select product...

...then select the metric(s) to be included
1. Crop details

Enter basic details about your crop to get started.

**Crop name**: Potato

**Harvest year**: 2018

**Crop area**: 1 hectares

**Gross yield**: 40 tonnes

**Seed amount**: 2 tonnes

**Net yield**: 35 tonnes

**Assessment name**: potato_2018

**Summary**

- **Crop**: Potato
- **Year**: 2018
- **Finished product**: 35 tonne
- **Product yield**: 35 tonne / ha

**GHG emissions**

- Total: 1,350 kg CO2e

**GHG emissions categories**

- Residue mgmt: 8%
- Soil fertilisers: 55%
- Crop protection: 6%
- Land management: 0%
Data entry page

- **Assessment name & descriptors**
  - `potato_2018` (Potato, Potato, Finished product: 35 tonnes, Yield: 35 tonne/ha)

- **Tabs for completion**
  - Crop, Soil, Inputs, Fuel & Energy, Irrigation, Carbon, Transport

- **Data entry**
  - 1. **Crop details**
    - Crop name: Potato
    - Harvest year: 2018
    - Crop area: 1 hectares
    - Gross yield: 40 tonnes
    - Seed amount: 2 tonnes
    - Net yield: 35 tonnes
    - Assessment name: potato_2018

- **Summary**
  - GHG emissions: 1,350 kg CO2e

- **Approximate completion status**
  - 100% Complete

- **Results** (see next slide)
## Summary

<table>
<thead>
<tr>
<th>Assessment descriptors</th>
<th>GHG emissions</th>
<th>Water results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Crop</td>
<td>Potato</td>
<td></td>
</tr>
<tr>
<td>Year</td>
<td>2017</td>
<td></td>
</tr>
<tr>
<td>Finished product</td>
<td>30 tonne</td>
<td></td>
</tr>
<tr>
<td>Product yield</td>
<td>30 tonne / ha</td>
<td></td>
</tr>
</tbody>
</table>

### GHG emissions

<table>
<thead>
<tr>
<th>Description</th>
<th>GHG emissions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Residue mgmt</td>
<td>13%</td>
</tr>
<tr>
<td>Soil / fertilisers</td>
<td>48%</td>
</tr>
<tr>
<td>Crop protection</td>
<td>4%</td>
</tr>
<tr>
<td>Land management</td>
<td>-2%</td>
</tr>
<tr>
<td>Energy &amp; processing</td>
<td>10%</td>
</tr>
<tr>
<td>Water waste</td>
<td></td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>1,383 kg CO2e</strong></td>
</tr>
</tbody>
</table>

### Water results

<table>
<thead>
<tr>
<th>Description</th>
<th>Water results</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Seed production</strong></td>
<td><strong>86 kg CO2e</strong></td>
</tr>
</tbody>
</table>

- Click to switch between GHG and water results.
- Click to see 'Total', 'By area' or 'By unit' results.
- Negative values for sequestration visible.
- Hover cursor to see value pop up.
Full results

- Headline results
- Detailed emissions by category and greenhouse gas (CO₂, N₂O, CH₄)
- Graph of emissions by category
- Emissions broken down within categories

Tab views (see next slide)
<table>
<thead>
<tr>
<th>GHGs</th>
<th>Water</th>
<th>Compare</th>
<th>Performance</th>
<th>Costs</th>
<th>Data</th>
</tr>
</thead>
<tbody>
<tr>
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</tr>
</tbody>
</table>

**Full results – tabs explained**

- **Detailed water results** (only visible if dual metric pathway chosen)
- **See previous slide**
- **Compare two assessments side by side**
- **List of performance KPIs based on entered data**
- **Calculate product profitability (see next slide)**
- **Detailed view of all input data on one screen**

**Key Features**

- **Total emissions**:
  - 1.56k kg CO2e
- **Emissions per hectare**:
  - 1.56k kg CO2e
User can enter income and expenditure values of all data entered...

Financial data are NEVER included if other results are shared using share codes
Top menus

[Members only]
Aggregate data received via share codes

[Members only]
Information for special projects

Edit user settings

Help

Change Tool language

[Members only]
Enter code to share assessment to other user(s)

Data export & send crop data for use as animal feed

My assessments

New assessment

Aggregation

My projects | Demo2 | ? | English

CFT

potato_2017

Crop | Soil | Inputs | Fuel & Energy | Irrigation | Carbon | Transport

Potato | Potato | Finished product: 30 tonnes | Yield: 30 tonne / ha

Share | More...

100% Complete
We value your feedback!

The Cool Farm Tool is an agile development, so we can quickly make updates based on user feedback.

Please email us with your feedback: info@coolfarmtool.org