

Soil Residue Calculator Info Sheet

https://ontario-lrc.github.io/crop_residue/

The Residue Calculator is intended as a tool to help users identify the change in residue cover based on specific tillage actions or overwintering and to identify what 30% residue cover looks like. It can also be used to determine cover crop density. It can be downloaded and bookmarked and can be used with or without Wi-Fi connection on smartphone or computer.



The Residue Calculator was developed for OMAFA in 2018 by A Brown (App developer) and A Szczecina (U. of Waterloo Computer Engineering – OMAFA summer student)

Crop Residue Results

1. Click on “BEGIN”, this will bring you down lower on the page.
2. Click on “BROWSE”, this will open a popup asking for you to select a picture or take a new one. (if taking a new one isn’t an option, then take a picture and save it in your photo library).
3. When taking a picture; overhead view from about hip height and try to avoid shadows
4. Click on the crop residue or cover crops in the photo. This will highlight the crop cover. Pressing on the image will zoom in allowing for improved selection. Continue until crop cover is well represented with the four (4) colour buttons
5. Press on the color circles to remove a color option.
6. Move the tolerance slider (under the color circles) to select more or less of the residue or cover crop colors.
7. Move the tolerance slider until all the crop cover in the picture is highlighted.
8. Once the crop cover is highlighted scroll down (without touching the picture) to see percent crop residue.

Save Your Crop Residue Results

1. To save your crop residue results you need to create a farm and field.
2. In the top right corner click on the menu button and then on the “FARMS” option.
3. This will open a popup to create a new farm. Type in a farm name and either type in a location or press the “Get My Location” button. Then press “Add Farm” to save the farm.
4. Click on the newly created farm.
5. In the top right corner select the “FIELDS” option. Type in a field name and a location and press “Add Field”.
6. Click on the newly created field.
7. To save your crop residue results click on the crop residue percentage circle to add to “Past Results”.

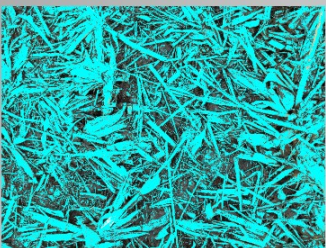
If preferred, you can select the ground (soil) colors instead of the crop colors and press the “INVERT RESULTS” (underneath the % crop residue circle) to invert the results for consistent reporting in “past results”.



Please Select Your Picture

Please select your picture using the button below. You will be prompted to select a file

SELECT NEW PICTURE



APPLY CHANGES

CLEAN IMAGE

Select Your Crop Colors

Click on the residual crops in the picture to highlight them. Tolerance can be set with the slider.

Your Crop Residue Results

Your crop residue has been analyzed. Click on your results to save or export.

51%

INVERT RESULTS

Please Select Your Picture

Please select your picture using the button below. You will be prompted to select a file

SELECT NEW PICTURE



APPLY CHANGES

CLEAN IMAGE

Select Your Crop Colors

Click on the residual crops in the picture to highlight them. Tolerance can be set with the slider.

Your Crop Residue Results

Your crop residue has been analyzed. Click on your results to save or export.

48%

INVERT RESULTS

Please Select Your Picture

Please select your picture using the button below. You will be prompted to select a file

SELECT NEW PICTURE



APPLY CHANGES

CLEAN IMAGE

Select Your Crop Colors

Click on the residual crops in the picture to highlight them. Tolerance can be set with the slider.

Your Crop Residue Results

Your crop residue has been analyzed. Click on your results to save or export.

30%

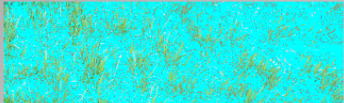
INVERT RESULTS

Results using colours of the crop cover.

Please Select Your Picture

Please select your picture using the button below. You will be prompted to select a file

SELECT NEW PICTURE



APPLY CHANGES

CLEAN IMAGE

Select Your Crop Colors

Click on the residual crops in the picture to highlight them. Tolerance can be set with the slider.

Your Crop Residue Results

Your crop residue has been analyzed. Click on your results to save or export.

70%

INVERT RESULTS

Results using soil colours, then saving the % residue cover by inverting the results.

