

FOR TITLE

Import

Convert

Vegetation Index Map

Window for image display

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Vegetation Index Map



Window for image display

IMPORT:

- To input image (RAW, TIFF, JPEG, etc.)
- When clicked, it should show the folders/ computer directories and then let the user choose the image he/she wants to display/process.

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Vegetation Index Map

Single TIF

Multi-page TIF

False-colored

Edge-detect

Window for image display

CONVERT:

- When clicked, should show four sub-options:

Single-TIF:

- Convert the RAW image into TIF format
- .RAW image should be imported first to the display window
- When clicked, it should automatically display the converted TIF image in the display window.

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Vegetation Index Map

Single TIF

Multi-page TIF

False-colored

Edge-detect



Window for image display

CONVERT:

- When clicked, should show four sub-options:

Multi-page TIF:

- Convert the RAW images into one overlaid TIF image
- When clicked, it should show directories so that the folder containing the .RAW images can be selected
- After choosing the folder, it should automatically display the multi-TIF image in the Image Display Window.

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Single TIF

Multi-page TIF

False-colored

Edge-detect



Window for image display

CONVERT:

- When clicked, should show four sub-options:

False-colored

- Convert the TIF images into false-colored image
- From RGB – NRG
 - Red > NIR
 - Green > Red
 - Blue > Green
- An image should be displayed FIRST before doing this.
- After clicking the Convert>False-colored, it should automatically display the false-colored image.

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Vegetation Index Map

Single TIF

Multi-page TIF

False-colored

Edge-detect



Window for image display

CONVERT:

- When clicked, should show four sub-options:

Edge-detect:

- Define the edges of the banana leaves
- First, a TIFF image should be displayed.
- After clicking the Convert>Edge-detect, it should automatically display the edge-detected image.

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SAVI

NDVI

Window for image display

VEGETATION INDEX MAP:

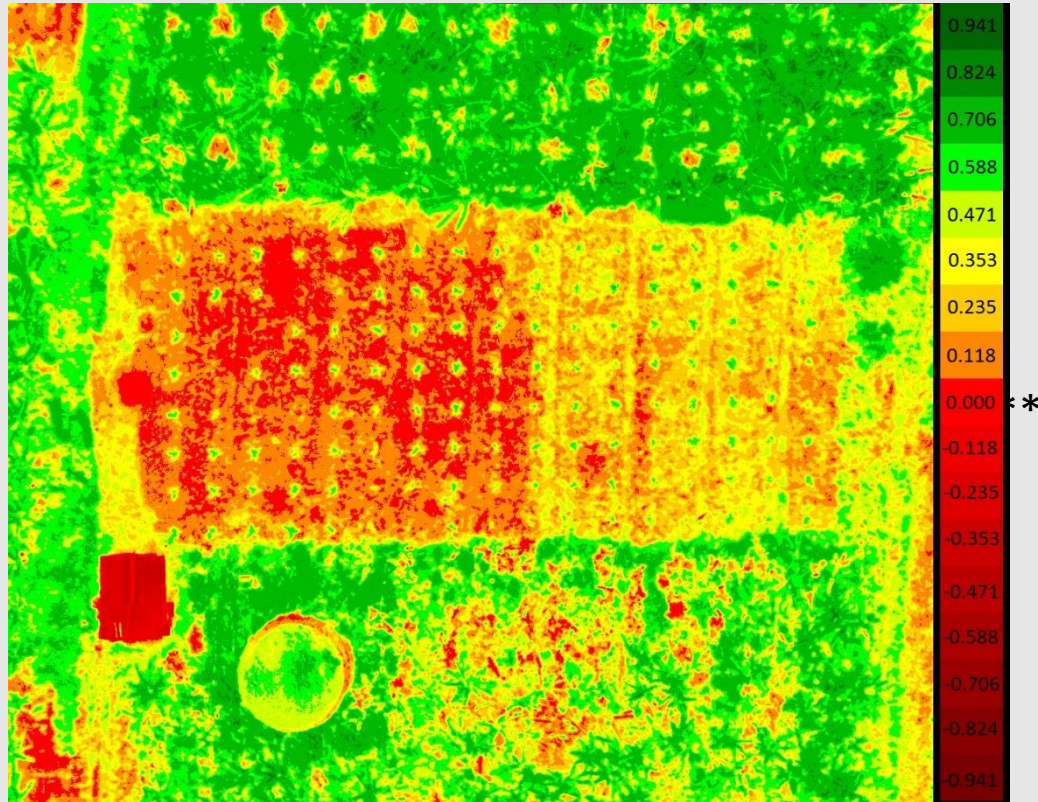
- Displays the VI map of the TIF image showed in the display window
- Either SAVI or NDVI

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Download

Show values

Average

Pixel

Portion

whether NDVI or SAVI option was chosen

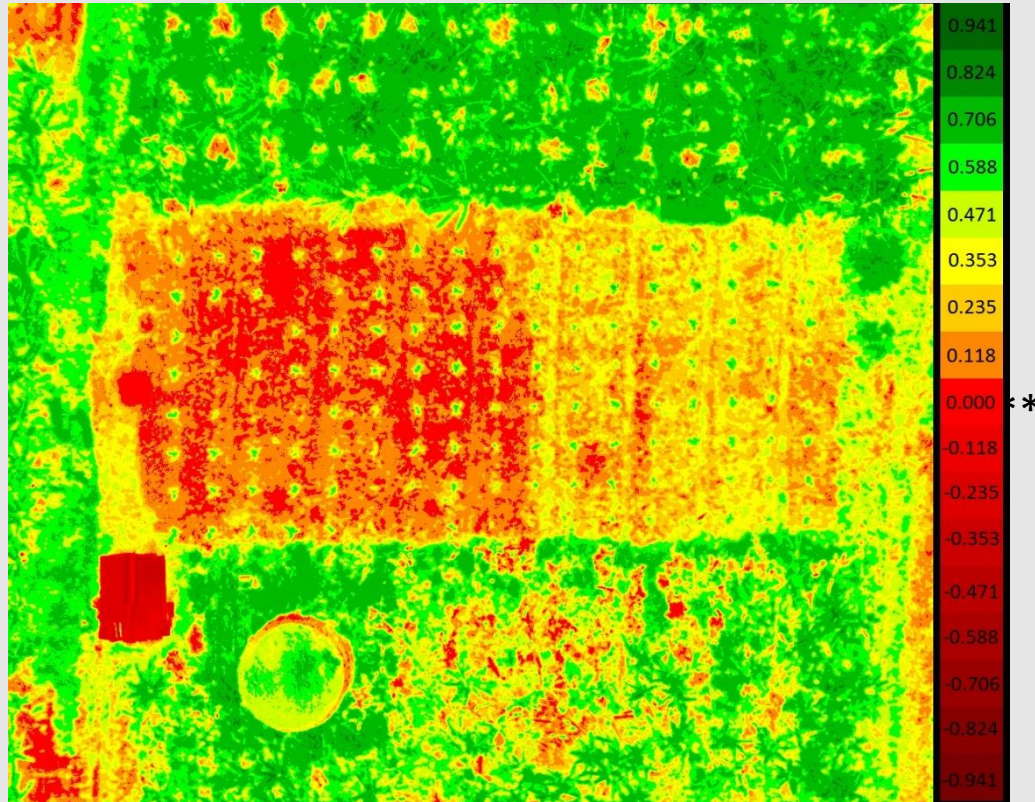
- When the NDVI mapped created was right clicked, it should show another set of options

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Vegetation Index Map



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Show values

Average

Pixel

Portion

whether NDVI or SAVI option was chosen

- When right clicked, it should show another set of options

Download:

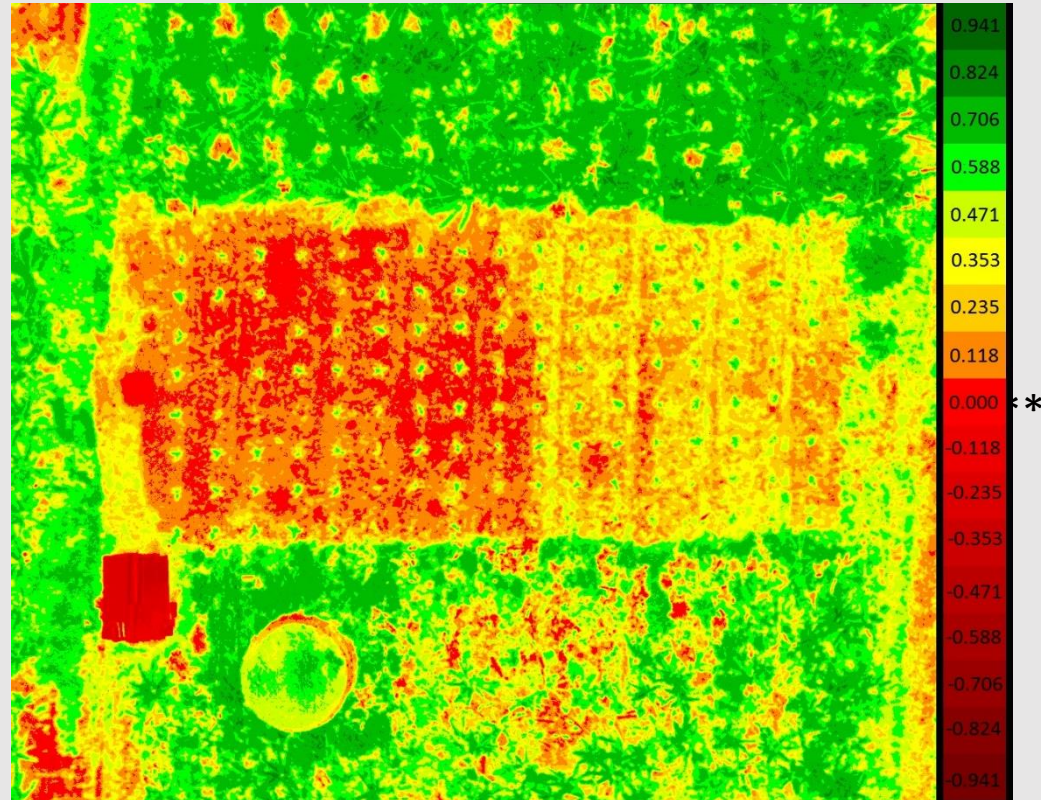
- All (not just on this part) photos displayed in the window should be downloadable.

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Vegetation Index Map



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Show values

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Pixel

Portion

whether NDVI or SAVI option was chosen

- When right clicked, it should show another set of options

Show Values:

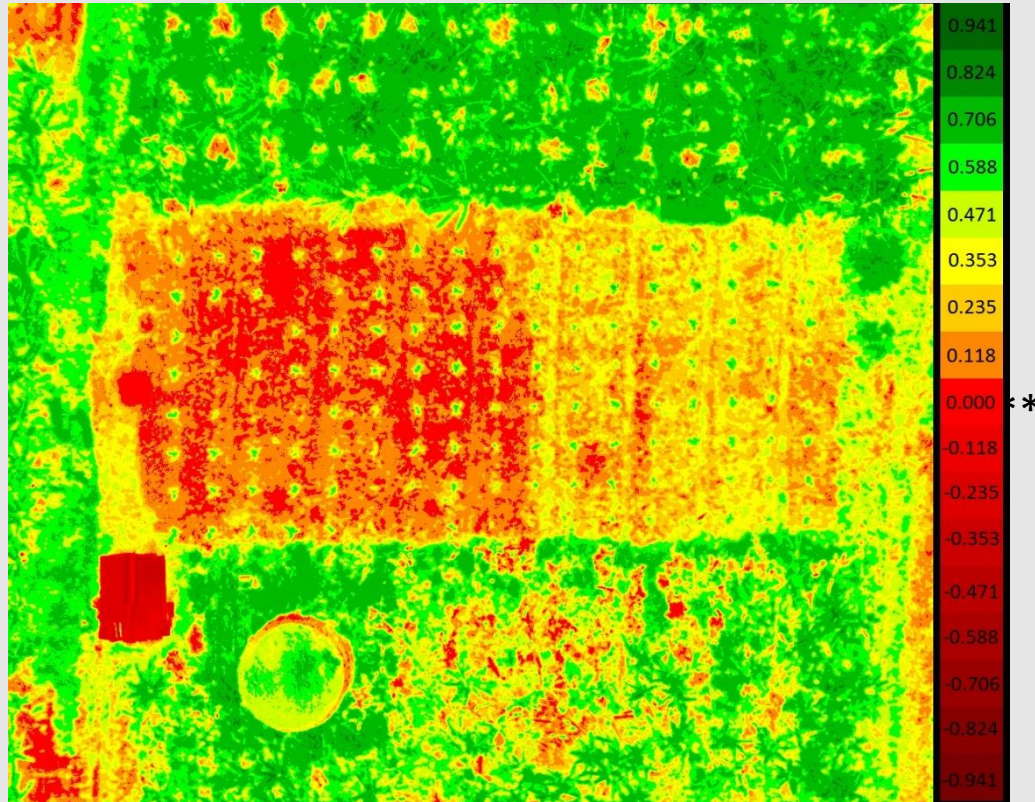
- Aside from showing the NDVI/SAVI map of the plantation, it should also show the obtained vegetation index (numerical value).
- The values should be computed according to the area of scope: whole image, per pixel, or per portion of the image.

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Show values

Average

Pixel

Portion

NDVI Value:

show value here

Average:

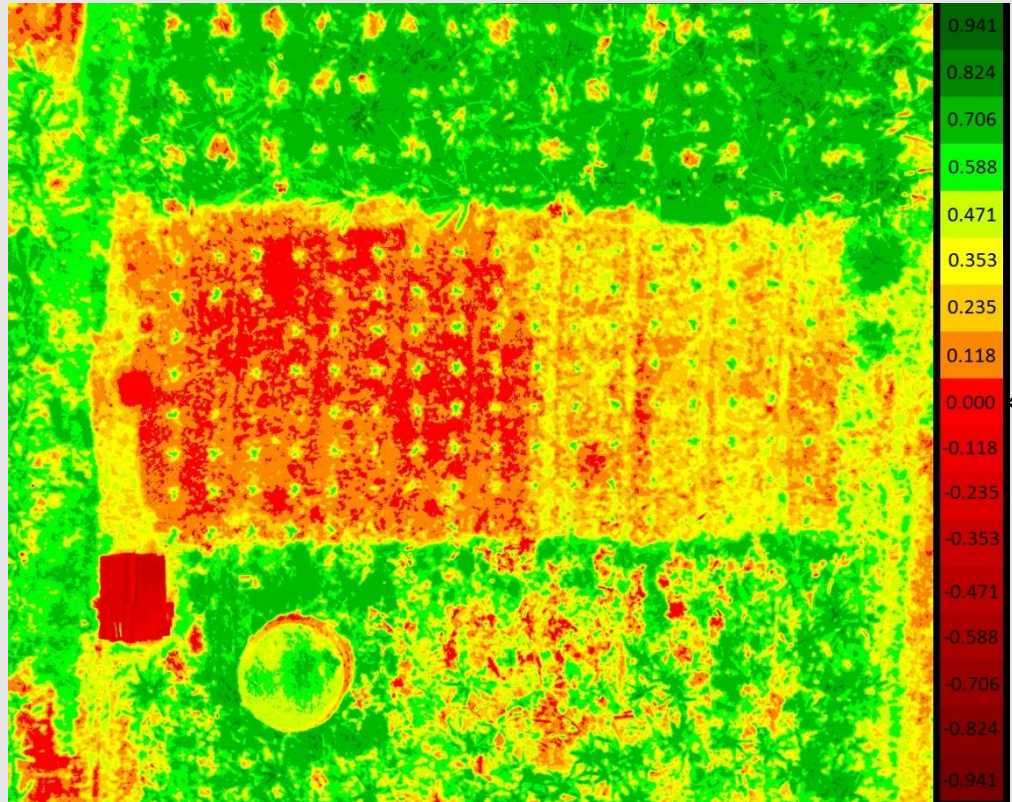
- Average NDVI value refers to the mean NDVI values of all the pixels, meaning the whole image.
- It should open a small dialog box showing the value.

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Show values

Average

Pixel

Portion

NDVI Value per pixel:

Download table

Show color map

Pixel:

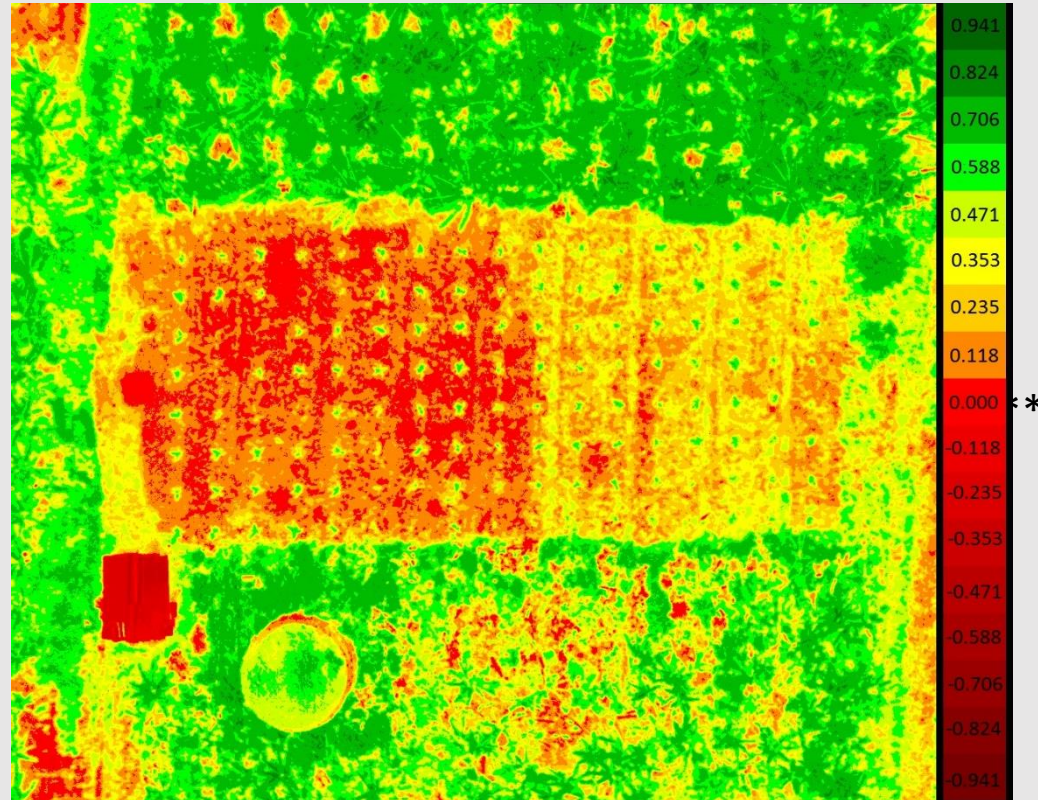
- When clicked, it should show two options:
tabular or color map

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Download

Show values

Average

Pixel

Portion

NDVI Value per pixel:

Download table

Show color map

Download table:

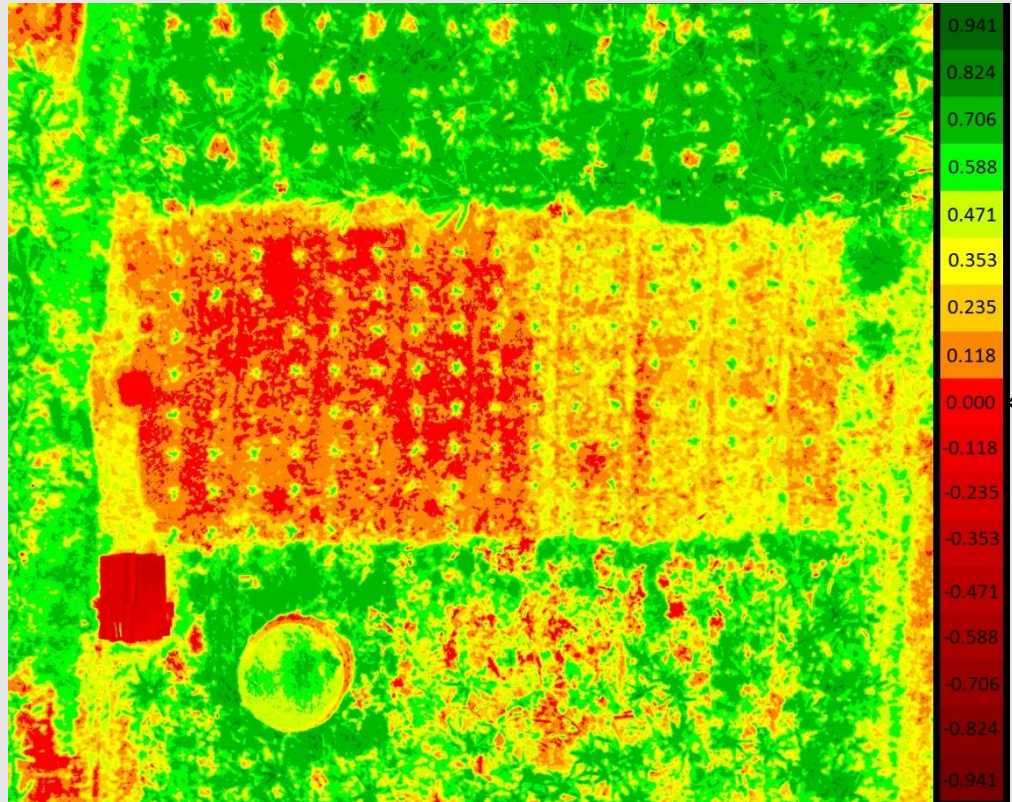
- Automatically downloads the table containing 1280x1024 NDVI values.

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Download

Show values

Average

Pixel

Portion

NDVI Value per pixel:

Download table

Show color map

Show color map:

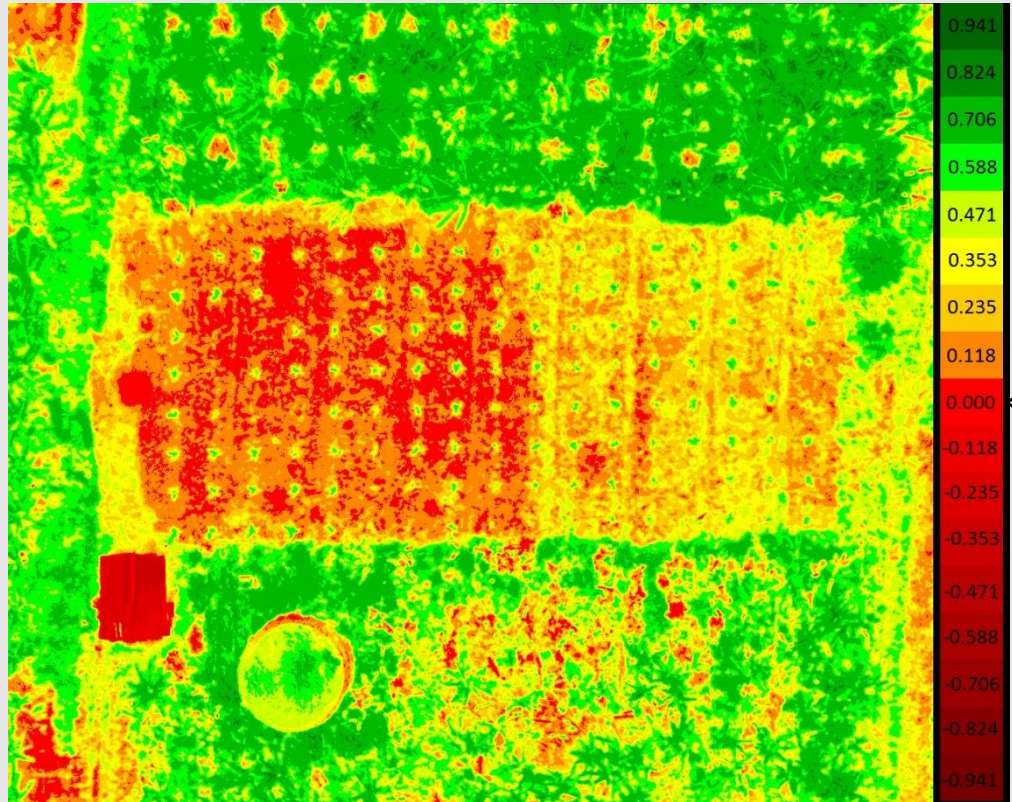
- Automatically displays color map of the image.
- *Color map will be explained later*

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Show values

Average

Pixel

Portion

NDVI Value per pixel:

Download table

Show color map

Show color map:

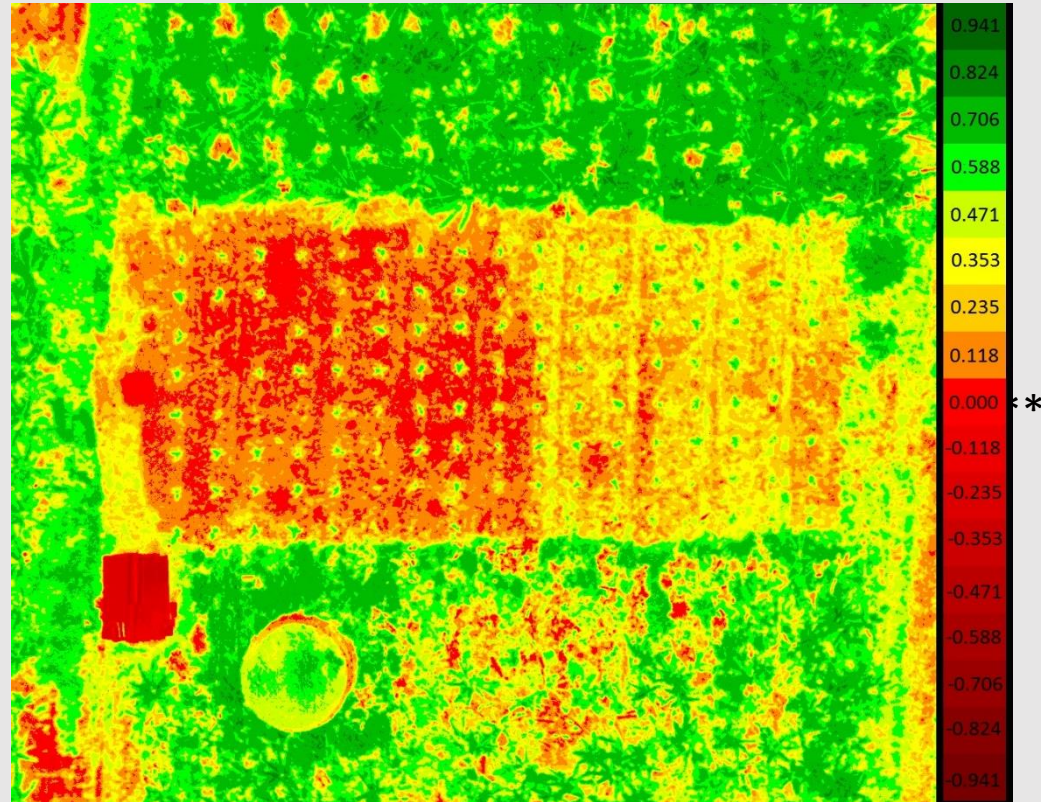
- Automatically displays color map of the image.
- *Color map will be explained later*

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Download

Show values

Average

Pixel

Portion

NDVI Value:

show value here

Area:

show value here

Portion:

- Image can be highlighted either rectangular or free-hand.
- Using mouse, certain part of the image should be highlighted and after encircling or highlighting, dialog box containing the VI value should appear.
- It's like the 'average' option, but not for the whole image.
- In addition, area of the highlighted portion should also be displayed