

# USING THE PLUGIN

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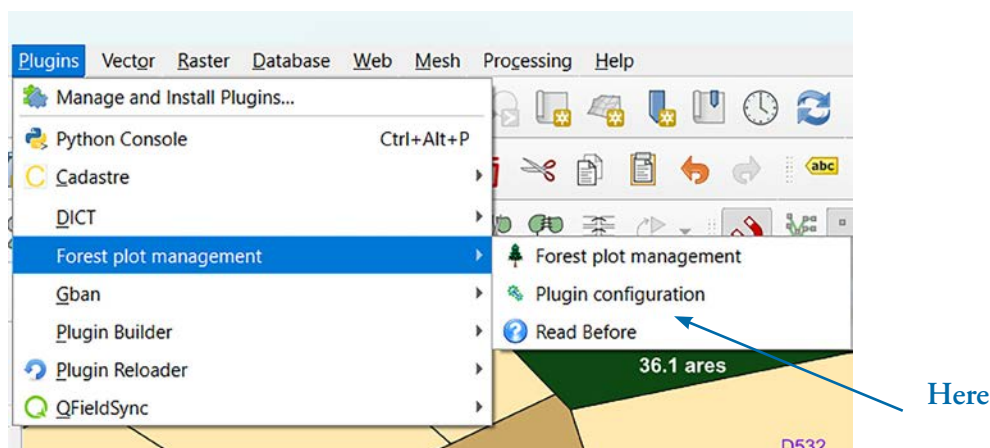
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This help file was written based on the features of version **V1.3.0** of the plugin.

This plugin will allow you to enter and manage your forest plots. By clicking on a plot, you can view all the information you have entered. You can also enter tree species, work completed and to be completed, and the coordinates of the plots that affect you.

This plugin consists of 11 tabs: 4 for viewing, 4 for entering information about your plots, a tab for entering plot owner information, a tab with editable data, and an analysis tab.

Once you have installed and configured the plugin, select the icon in the menu bar or from the «Extensions» menu, «Plot Management.».



# I. THE DIFFERENT TABS

## A. The Viewing Tabs

There are 4 of these tabs that allow you to see the information you have entered via the Input menu.

The menu is therefore made up of tabs, but also a section that remains identical for all tabs.

You will find a fixed section identical for each tab and which is as follows:

- 1 – Latitude and longitude of the clicked point.
- 2 – Plot number.
- 3 – Plot area (always expressed in ares).
- 4 – Name of the selected layer.
- 5 – «Data» checkbox. This will be discussed later. It allows you to modify elements in the tree species list, type of work and treatments, and the Analysis tab.
- 6 – Access to enter and modify information about your plots.
- 7 – This checkbox indicates that the plot belongs to you and you can therefore access the Entry menu.
- 8 – Help file. This is where you are.
- 9 – Button to create an entity within a plot.
- 10 – Describes access to the parcel
- 11 and 12 – Land type and comments.
- 13 – Deletion of a D566a child entity. Only parcels with an index can be deleted.

## Informations

You will therefore find the type of plot that was selected, the type of trees, the year of planting, the number of trees and possibly the percentage of each species (limited to 4). All of this data is what you entered.

### 1. Works

In this tab, you'll find the dates and types of work completed, as well as any comments you may have. The number of rows is limited to six. These elements are stored in your layer's attribute table and are the ones you entered (Examples in French).

Dates and types of work

## 2. Treatments

This tab lists the treatments with their dates and any comments. There are also a maximum of six of them. The structure is the same as the previous one.

The screenshot shows a web application with four tabs: 'Information', 'Works', 'Treatments', and 'Forecast'. The 'Treatments' tab is active. It contains a text area with two entries: '01/10/2024 : Trico' and '23/02/2025 : Zéolite'. Below this is a 'Remarks' section with a text area containing three dots '...'. The interface has a light gray header and a white main content area.

## 3. Forecast tab

In this tab, you'll find the dates and work plans, as well as any comments you may have. The number of lines is limited to four. The structure is the same as the previous ones. However, the date field doesn't have to be an xx/xx/xx field.

The screenshot shows the same web application with the 'Forecast' tab active. It displays a forecast entry: 'printemps 2025 : Regarni'. Below this is a 'Remarks' section with a text area containing 'printemps 2025 : Prévu 10 chataigners et 150 mélèzes'. The interface is consistent with the previous tabs, featuring a light gray header and a white main content area.

## B. The Owner tab

This tab allows you to enter the information you have concerning, for example, a neighboring plot and add the owner's contact details. To do this, simply select the «Modify Information» checkbox and enter the information. As soon as you click on this checkbox, the «Save» button appears. Filling in the name field is enough to change the color of the plot number on the map (purple), indicating that you have entered information for this plot. And as for the other plots, you will still find the coordinates, number and surface area there.

The screenshot shows a window titled 'Coordonnées sur click' with a close button 'X'. Inside, there's a section 'Coordonnées parcelle' with a text field containing '6.952697036376605, 48.38147554036899'. Below this is 'Numéro de parcelle du click' with a field containing 'D573' and a 'Surface : 62.97 ares' label. A 'Propriétaire' section has a checkbox 'Modifier informations' which is checked, and an 'Enreg.' button. Below the checkbox is a text field with 'Flo...' and another with '88100 SAINT DIE DES VOSGES'. There are also fields for 'Mail : ' and 'Téléphone : 0670881110'. At the bottom, there's a checkbox 'Propriété Nous' and a 'Nom de la couche : parcelles moyenmoutier' field with an 'Aide' button.

## C. The Modifications Tabs

All of these tabs have been created to simplify your task. They are therefore made up of pre-established lists, which you can modify in the «Data» tab, date fields (except for the forecasts tab) and Notes fields. There are 4 of them, as for the Visualization tabs, and they only appear if you check the «Input» box and this plot belongs to you.

### 1. Entering Information

In this tab, you can enter general information about your plot, including:

- The type of tree species (limited to four).
- The percentage of each type.
- The year of planting.
- The number of transplanted plants.
- The plot type from a list. This element is attached to the legend and will change the color of your plot based on your selection.
- Information on access to the plot from a defined list.
- The quality of the land and any comments.

The tree species type can be modified in the «Data» tab.

The planting type selection list allows you to select the age and type of planting from a list. You can change the color but not the title. Please note that reconfiguring the plugin will erase your settings.

#### Symbyology

If you want to add your own colors, you'll need to save your style and replace the plugin's style (styleplugin.qml). **Please note that the plugin doesn't handle hatching, dotted lines, or other complex styles. However, the labels are fixed in the Python file.** If you modify them, the legend titles will be different from those in the selection list. The legend is configured in English during plugin configuration, but you can always modify it after configuration.

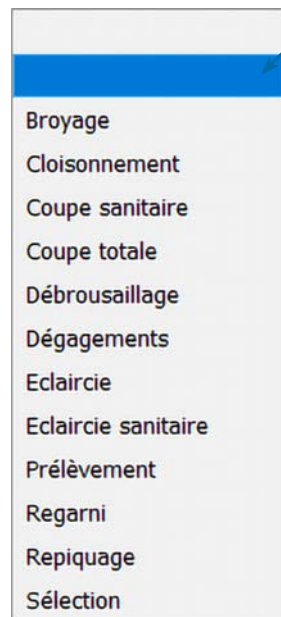
If you have already configured your project with an older version, to put the legend in English, simply go to QGIS, on the desired layer, and do: Properties --> Symbyology, then click on style and add style. You will find the English language style in the «resources» directory of the QGIS plugins.

List	Legend
Meadow	<input checked="" type="checkbox"/> Meadow
Seedlings (up to 2m)	<input checked="" type="checkbox"/> Natural regeneration
Saplings (2 to 6m)	<input checked="" type="checkbox"/> sale in progress
Young forest (diam 11 to 25)	<input checked="" type="checkbox"/> Ongoing sales
Mature forest (diam > 25)	<input checked="" type="checkbox"/> Exchanges
Old forest	<input checked="" type="checkbox"/> Deciduous wasteland
Irregular high forest	<input checked="" type="checkbox"/> Young stand (diam 6 to 10)
Coppice	<input checked="" type="checkbox"/> Seedlings (up to 2m)
Birch wasteland	<input checked="" type="checkbox"/> Young forest (diam 11 to 25)
Natural regeneration	<input checked="" type="checkbox"/> Mature forest (diam >25)
Ongoing sale	<input checked="" type="checkbox"/> Old forest
Ongoing purchase	<input checked="" type="checkbox"/> Irregular high forest
Exchanges	<input checked="" type="checkbox"/> Coppice
Deciduous wasteland	<input checked="" type="checkbox"/> Wasteland Birches
Young stand (diam 6 to 10)	<input checked="" type="checkbox"/> Young stand (2 to 6m)

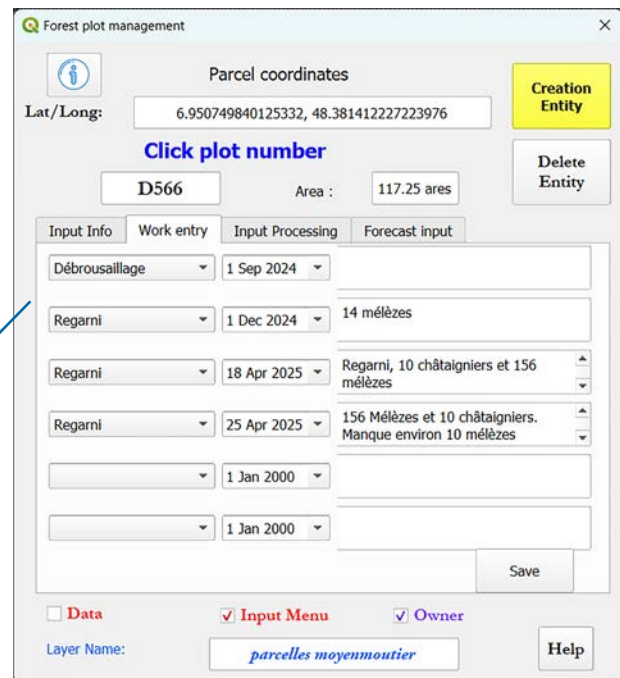
## 2. Work entry

This tab works like the previous one with a list of work types from the «Data» tab and editable. The date field is presented in the form of a calendar to facilitate entry. The original date is always 01/01/2000.

In this example the choice list is in French but you can modify it easily in English by checking the Data box.



- Broyage
- Cloisonnement
- Coupe sanitaire
- Coupe totale
- Débroussaillage
- Dégagements
- Eclaircie
- Eclaircie sanitaire
- Prélèvement
- Regarni
- Repiquage
- Sélection



Forest plot management

Parcel coordinates

Lat/Long: 6.950749840125332, 48.381412227223976

Click plot number

D566 Area : 117.25 ares

Creation Entity

Delete Entity

Input Info Work entry Input Processing Forecast input

Débroussaillage 1 Sep 2024

Regarni 1 Dec 2024 14 mélèzes

Regarni 18 Apr 2025 Regarni, 10 châtaigniers et 156 mélèzes

Regarni 25 Apr 2025 156 Mélèzes et 10 châtaigniers. Manque environ 10 mélèzes

1 Jan 2000

1 Jan 2000

Save

☐ Data ☒ Input Menu ☒ Owner

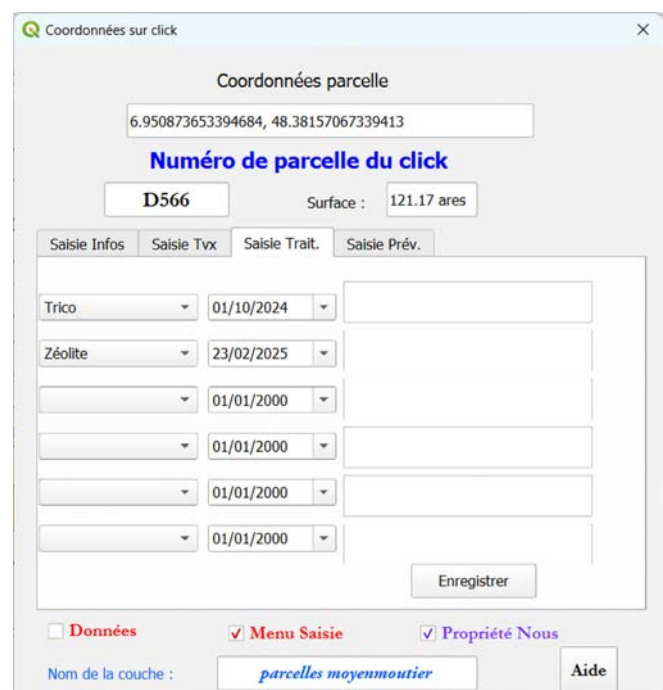
Layer Name: parcelles moyenmoutier

Help

janvier 2000						
lun.	mar.	mer.	jeu.	ven.	sam.	dim.
27	28	29	30	31	1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31	1	2	3	4	5	6

## 3. Data entry Processing

This tab works like the previous one, only the designation of the lists is different, but it still comes from the «Data» tab and is editable, in French in this example but editable in English.



Coordonnées sur click

Coordonnées parcelle

6.950873653394684, 48.38157067339413

Numéro de parcelle du click

D566 Surface : 121.17 ares

Saisie Infos Saisie Txv Saisie Trait. Saisie Pré.

Trico 01/10/2024

Zéolite 23/02/2025

01/01/2000

01/01/2000

01/01/2000

01/01/2000

Enregistrer

☐ Données ☒ Menu Saisie ☒ Propriété Nous

Nom de la couche : parcelles moyenmoutier

Aide



#### 4. Work forecast entry

The only slight difference with the Jobs and Processing tabs is the nature of the «date» field, which is not a date but can also be a text like «*spring 2026*». The number of fields is limited to 4 for this tab. The editable list is the same as that of «Jobs».

#### D. Data tab

It is in this tab accessible by clicking on the Data checkbox, accessible from each plot that you can replace and add tree species, types of work and treatments. However, the number of lines is limited to 22. To validate your modifications you will have to click on the «Save» button. This table is pre-filled at the origin. But the first time you make a modification, this will create a table of your personal data which is located in the «resources» folder of the plugin under the name «*table\_data.csv*».

- 1 - The checkbox that allows you to access this tab.
- 2 - Button to save your changes

There are 5 editable lists:

Tree species  
Work  
Treatments  
Access  
Land

The number of lines is limited to 22 and is pre-filled. You can delete, add, or modify elements.

Please note that if you modify an element included in a field of your attribute table, it will no longer appear in the field being viewed, even if it is already in your table.

For example, if you change «Chestnut tree» to «Chestnut trees», it will no longer appear. You will need to re-enter it in edit mode.

	Trees	Works	Treatments	Access	Group
1	Aulnes	Dégagements	Laine mouton	Chemin	Humide
2	Châtaigniers	Broyage	Trico	Difficile	En pente
3	Hêtres	Regarni	Zéolite	voisin	Bon
4	Cèdre Atlas	Eclaircie ...		Enclavé	Très bon
5	Chênes Sessile	Eclaircie		Bord de chemin	Caillouteux
6	Epicéas	Debroussaillage			Très humic
7	Sapins	Coupe sanitaire			

## E. Statistics tab

This tab is accessible by checking the Data box, and the tab is located alongside the editable data tab. You'll find information from calculations, as well as a tab for exporting various data to Excel. You can export all or part of the information. There are also three sub-tabs that provide information about your forest plots.

The 'Forest plot management' dialog box is shown with the 'Statistics' tab selected. It displays 'Parcel coordinates' (Lat/Long: 6.950749840125332, 48.38141222723976) and a 'Click plot number' field with 'D566'. The 'Area' is 117.25 ares. The 'Data' section shows 'Total wood su' (20 ha 79 a 24 ca) and 'including wast' (4 ha 50 a 60 ca). The 'Plots by' section has tabs for 'Types', 'Species', and 'Miscellaneous'. Under 'Types', the following statistics are listed: Natural regeneration : 19.0 %, Mature forest (diam > 25) : 18.2 %, Seedlings (up to 2m) : 14.0 %, Birch wasteland : 11.5 %, Young forest (diam 11 to 25) : 8.9 %, and Autres : 28.3 %. The 'Total number of trees transplanted' is 2084. On the right, there are checkboxes for 'All', 'Works', 'Treatments', 'Work Forecasts', and 'Open after Export', along with an 'Excel export' button. At the top right, there are 'Creation Entity' and 'Delete Entity' buttons.

## II. CREATION OF AN ENTITY IN A PARCEL

In QGIS, you can create a zone within a plot<sup>(1)</sup>, meaning a feature that will have its own information. This feature exists natively in QGIS, but it posed some logical data integration issues. So, I recreated it to make it easier to manage your blocks within your plots. **Be careful not to use Filling when using the plugin, this will create a conflict, especially since the display of the native QGIS dialog box has been disabled.**

You can access this tool at any time in the main form: Then simply draw your polygon by left-clicking at each corner. You can close the polygon by right-clicking or clicking

You will then have a new window open which will show you the elements created for this new entity and which will be saved in the table. You will need to enter the

The 'Forest plot management' dialog box is shown with the 'Information' tab selected. It displays 'Parcel coordinates' (Lat/Long: 6.950702273612761, 48.38147036407267) and a 'Click plot number' field with 'D566a'. The 'Area' is 0.8 ares. At the top right, there are 'Creation Entity' and 'Delete Entity' buttons. The 'Delete Entity' button is circled in red and labeled with a red '2'. The 'Creation Entity' button is circled in red and labeled with a red '1'.

The 'MANDATORY INFORMATION TO BE ENTERED' dialog box is shown. It has a title bar with a green 'Q' icon and a close button. The title is 'MANDATORY INFORMATION TO BE ENTERED' in green. It contains the following fields: 'Single Fid : 9439' with a red 'To Enter' label and a red circle around the input field; 'Section D Number: 566'; 'Hint: ' with an empty input field; 'Id created in table: 883190000D0566'; 'Owner' checkbox (checked); 'Area : 0.80 ares'. At the bottom, there are 'Cancel' and 'To validate' buttons.

index of the new parcel. The other data is there for information purposes only. It is recommended to enter an index of type a, b... A, B... The number 0 is prohibited. The surface area of this new entity is calculated automatically but the surface area of the parent entity (or parcel) is not modified. In the analyses tab, these polygons are excluded from the calculation of the total surface area since they are still integrated into the parent parcel. For a given parcel, the index must be unique.

Vous aurez alors une nouvelle entité dans votre parcelle pour laquelle vous pourrez saisir les informations de son contenu de manière classique.

To delete a child entity, simply click on the button <sup>(2)</sup>, click on the plot to be deleted. Please note that only plots with an index can be deleted. You will have a message asking you to confirm the deletion. In this way, all the data for this entity will be deleted.

The 'Deletion confirmation' dialog box is shown. It has a title bar with a green 'Q' icon and a close button. The title is 'Deletion confirmation'. It contains a question mark icon and the text: 'The plot D566a will be permanently deleted. Do you wish to continue?'. At the bottom, there are 'Yes' and 'No' buttons.

### III. INFORMATIONS

#### A. What is editable

You can change the colors of your different plot types. Note that for some layers, the font color has been adapted (white) due to the dark color of the style sheet. This has been done hard-coded in the Python code. **The plugin does not support hatching, dotted lines, or complex background types such as dot density.** You can edit all the information in the «Data» tab without any problem within the limit of 22 lines.

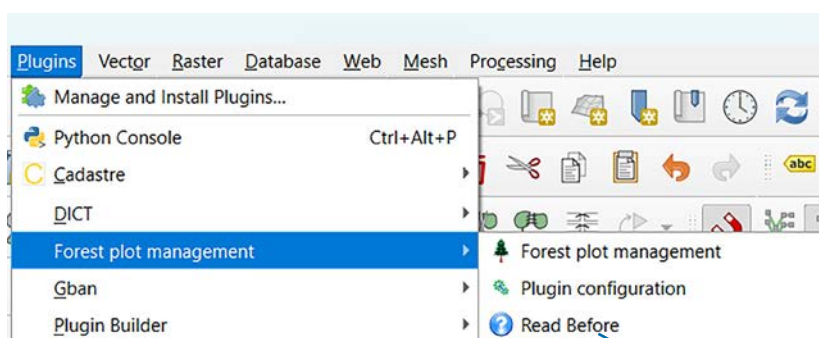
You can eventually change the labels (this is where the white font for dark styles is.) But if you reload the plugin it will overwrite your changes. And you will have to redo your changes.

#### B. What is not modifiable

The plot type titles. It is best not to change the names to be consistent with the legend of the layer windows and the list in the input, but nothing prevents you from doing so, except that it will not be reflected in your choice list. The list is in the plugin code.

### IV. RAPPEL CONFIGURATION

This plugin allows you to structure, manage and enter a lot of information about your forest plots linked to cadastral plots. The links to retrieve the cadastral files are specific to France; you will have to search for where to find the files for your country yourself.



You are HERE

### V. PLUGIN PREREQUISITES

To use this plugin, you must:

Have installed one or more geopackage layers (.gpkg extension).

Make sure these layers have an «id» type field (883190000D0591), a «section» field, and a «number» field.

Note: If you download your parcel layers from [cadastre.gouv.fr](http://cadastre.gouv.fr), you will need to create these two fields using the Field Calculator in your attribute table. For section: (substr('id',10,1)) and for number: (right('id',4)).

Once you have downloaded the parcel you need. Referring to the municipality code, for example, for the parcel map of an entire municipality, you will need to install the cadastre extension available in the QGIS plugins. Create a database, for example, «test.» This operation only needs to be performed once, even if you are installing multiple cadastral maps. Finally, you will need to use the cadastral plugin to upload the files to the directory where you downloaded them.

You can also download a pre-formatted .json layer for QGIS, which already includes the section and number fields.



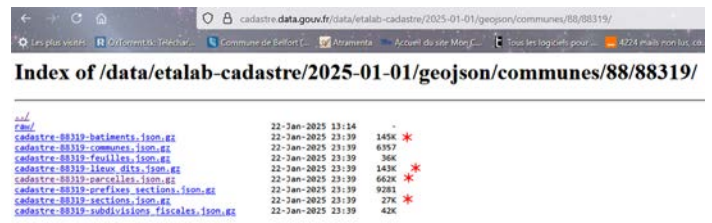
## VI. PROCEDURE

### A. JSON file recovery (for France)

1. There are many formats for cadastral elements; in our case, the json format is more than sufficient and has the advantage of being able to be retrieved municipality by municipality.

2. So you find this data here at the bottom of the page:  
<https://cadastre.data.gouv.fr/datasets/cadastre-etab>

Select your department, then your municipality using the INSEE code, and you will arrive on this page. The required files are marked with an asterisk.



File	Date	Size	Status
cadastre-88319-batiments.json.gz	22-Jan-2025 13:14	145K	*
cadastre-88319-communes.json.gz	22-Jan-2025 23:39	6352	
cadastre-88319-fouilles.json.gz	22-Jan-2025 23:39	36K	
cadastre-88319-lieux_dits.json.gz	22-Jan-2025 23:39	143K	*
cadastre-88319-parcelles.json.gz	22-Jan-2025 23:39	662K	*
cadastre-88319-préfixes_sections.json.gz	22-Jan-2025 23:39	9281	*
cadastre-88319-sections.json.gz	22-Jan-2025 23:39	27K	*
cadastre-88319-sousdivisions_fiscales.json.gz	22-Jan-2025 23:39	42K	

3. You will then need to unzip the files into a directory of your choice.

4. You open QGIS and a new project.

5. You select your files and drag them into the QGIS layer explorer like this.

6. For the section, place\_names and buildings files, you just have to remove the background color by right-clicking on it, Properties Sym-biology and adapt the outline to your taste (I advise you not to put a colored background) then in labels add the TEX field as a simple label to see the place\_names and sections displayed.



7. The file setup is complete. The file will be converted to .gpkg format automatically.

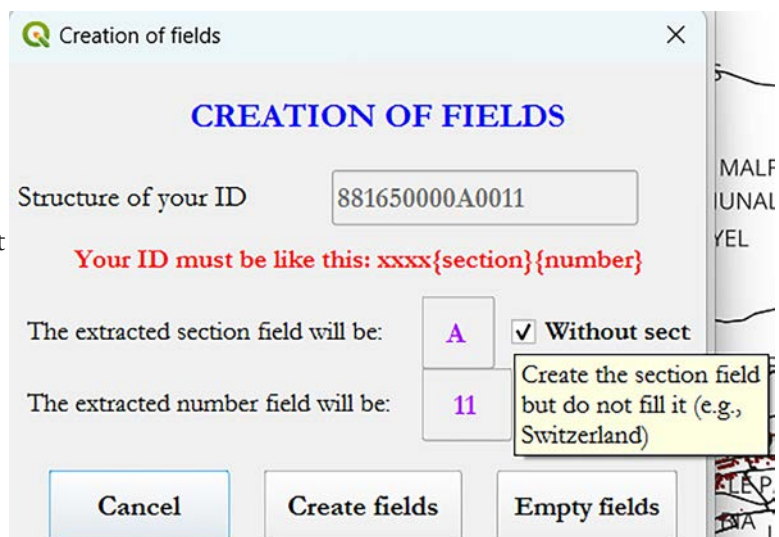
This link is only valid for the French land registry.

### A. EDIGEO file recovery

Since version 1.3.3 of the plugin, the configurator will prompt you to create the section and number fields if they don't exist in the attribute table, which is the case for some EDIGEO files. You can either create only empty fields or fill in all the fields by converting the id field. To do this, it must be in the style xxxx{section}{number}. The section field will be detected if it contains characters (a, A, etc.), and the number field must be a sequence of numbers. For example, 0245 will be considered as 245.

This structure corresponds to the structure of the French land register and the standard Idu format. As a reminder:

example: 88319000AR0124 corresponds to:



88319: commune of Moyenmoutier.  
000: fixed prefix.  
AR: cadastral section. 0124: plot 124.

There are three buttons:

**Cancel:** Cancels the creation

**Create fields:** Creates and fills in the fields

**Empty fields:** Creates the section and number fields but does not fill them in.

The «without section» **checkbox** allows you to create the section field without filling it in, making the plugin compatible with the Swiss land registry numbering (number only). Creating an empty section field avoids the error «missing a section field.»

## B. Installing EDIGEO files

After downloading the file you're interested in using the link above, if you don't have it, you'll need to install the cadastre plugin in the extensions.

Then you'll first need to import your database using the import option in the cadastre plugin:

The screenshot shows the 'Cadastré' plugin interface. Key elements include:

- Type de base:** Set to 'Spatialite'.
- Connexions:** Set to 'demoplug.sqlite' (highlighted with a blue circle and red text '1 - Database to create').
- Créer une base Spatialite:** A button labeled '2 - To be done only once'.
- Fichiers EDIGEO:**
  - Répertoire:** 'D:/IDEGEO cadastre vosges/88319' (highlighted with red text '3 - Your File').
  - Projection: Source:** 'EPSG:4326 - WGS 84'.
  - Cible:** 'EPSG:4326 - WGS 84'.
- Fichiers MAJIC:** Empty 'Répertoire' field.
- Paramètres:**
  - Département:** '88'.
  - Direction:** '0'.
  - Version du format:** '2021'.
  - Année:** '2021'.
  - Lot:** '88319'.
  - Corriger les géométries invalides:** Checked.
  - Lancer l'import:** A button labeled '4 - Launch Import'.
- Progress bar:** Shows '0%'.

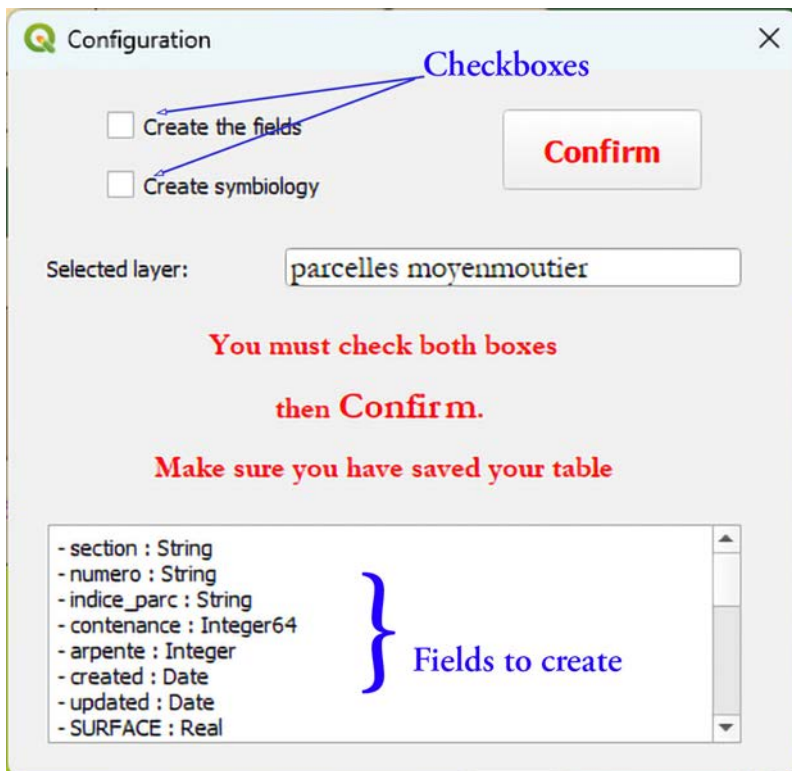
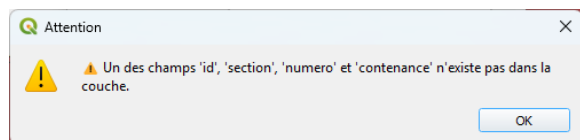
Here is a link that explains all the steps to install a cadastral parcel using the cadastral plugin: <https://www.youtube.com/watch?v=1mZ9NccOd98>

## VIII. PLUGIN CONFIGURATION

To use this plugin, you must first configure your parcel layer(s) to create the fields required for its use.

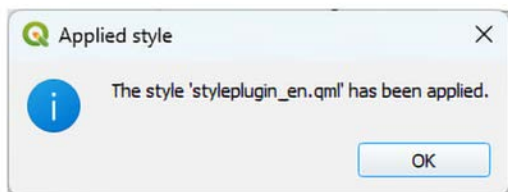
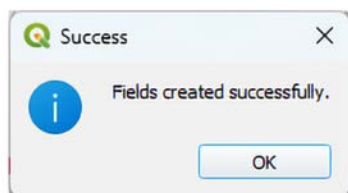
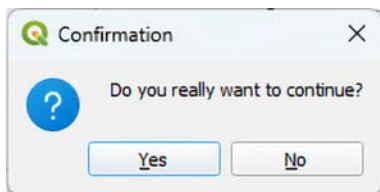
To do this, click the two checkboxes and confirm with the Confirm button.

If a required field is missing, you will see this message:



You can change the name of your file

You will then have this message which will appear:



If you have already configured your project with an older version, to put the legend in English, simply go to QGIS, on the desired layer, and do: Properties -->Symbiology, then click on style and add style. You will find the English language style in the «resources» directory of the QGIS plugins.

Once the fields are created you will have a message indicating this and you will see the new legends and colors that you can assign to your plots appear in the layers area on the left.

And that's it. All that's left is to discover the plugin.