



This is an accumulated description of changes made to GreenPlan recently, which are all contained in version 2020-2, September 2020*.

The new functions and facilities are mostly developed on basis of wishes from current users.

More columns in the planning file	2
Showing/hiding columns in the planning file.....	2
Notes.....	5
Activity list.....	6
Batch Start Labels.....	6
Backup.....	8
Export of data.....	8
Error log.....	9
Realized recipes in PlanControl.....	9
Exporting to Excel.....	11

*GreenPlan has changed the way new versions are labeled.

From now on versions will be labeled with the release year followed by a sequential number. The current release is the second one this year and it is labeled "2020-2".



More columns in the planning file

Several new fields have been introduced in the planning file:

- Start location
- Start Department
- House
- Plan ID

Start department and Start Location is picked from the recipe and tells where a batch is started. It is possible to filter on Start Department and Start Location in the same way as filtering on for example start weeks and crops. House is an option, that can be chosen to put on in the planning line, if this is relevant. The Plan ID is a unique identification of the planning line, which is handy in e.g. export of data that are to be combined with other resources. In the PlanControl module it also is used to pair a planning line and a realized recipe.

Start location	Start department	House		Plan ID
Prop.	Prop. H1-3		Nothing	9477
Prop.	Prop. H1-3		Nothing	9478
Prop.	Prop. H1-3		Nothing	9479
Prop.	Prop. H1-3		Nothing	9480
Prop.	Prop. H1-3		Nothing	9481
Prop.	Prop. H1-3		Nothing	9482
Prop.	Prop. H1-3		Nothing	9483

Showing/hiding columns in the planning file.

In previous versions there was an option in the general local setup, whether to see all columns possible across the screen, or whether to display the not so often used columns on a separate tab. The latter might have been necessary, if the screen is not very wide.

That has changed, and the option is removed from the local setup. Instead a new item is added to the context menu in the planning file: "Hide columns"

	Close window	Ctrl+F4
	Copy	F6
	Delete	F7
	Reread all plan records	F5
	Edit displayed period	F8
	Filter	F9
	Hide columns	F11
	Profit margin colors	F12
	Edit crop	Ctrl+F5



The first time the planning file opens in the new version, all possible columns are displayed looking like this:

Profit margin Plant	Year-m²	Status	Special price	Start location	Start department	House	Label remark	Plan ID
0,170	75			Prop.	Prop. H1-3		Nothing	9481
0,154	67			Prop.	Prop. H1-3		Nothing	9482
0,138	61			Prop.	Prop. H1-3		Nothing	9483
0,128	56			Prop.	Prop. H1-3		Nothing	9484
0,476	209			Prop.	Prop. H1-3		Nothing	9485
1,304	572			Prop.	Prop. H1-3		Nothing	9486
1,781	782			Prop.	Prop. H1-3		Nothing	9487
1,782	782			Prop.	Prop. H1-3		Nothing	9488

The columns that can be customized are:

Status. This field is an informative field showing e.g. that notes are attached to the line. Customers having the supplemental “PlanControl” module can also see whether a line is “phase overruled”.

Special price. This field was introduced in the previous version. See previous newsletter for a description.

Start department. New informative field described above in this newsletter.

Start location. New informative field described above in this newsletter.

House. New informative field described above in this newsletter

Label Remark. A very simple field for a brief note used in the label printing utility.

Plan ID Unique identification of a planning line.

If all these fields are needed in the planning process, a wide screen will be needed too. If all these fields are not needed, then use the “Hide columns” function to alter that. In the example below the following is assumed:

- Notes are not needed other than the brief ones in the “Label remark” field. The “status” column is therefore superfluous.
- The “Special price” feature is not used, and the column is therefore superfluous.



- “Locations” are not used, as there is only one production site, and the column is therefore superfluous.
- It would be nice to see where each batch is to be started at department level. The column for that has a lot of “white space” to the right, as a very short text is used for the short description of production departments. The width of the column must be reduced.
- The optional indication of placement in a house is not used, and the column is therefore superfluous.
- The occasional label remark does not need to take up that much space, and the width of the column must be reduced.
- “Plan ID” is a control feature not necessary right now, and the column is therefore superfluous. If needed it can be switched on later.

In order to achieve the above, you should enter the following in the “Hide columns” function:

Column	Width%	Hide
Status	100	<input checked="" type="checkbox"/>
Special price	100	<input checked="" type="checkbox"/>
Start location	100	<input checked="" type="checkbox"/>
Start department	50	<input type="checkbox"/>
Start house	60	<input checked="" type="checkbox"/>
Label remark	50	<input type="checkbox"/>
Plan ID	100	<input checked="" type="checkbox"/>

Applying the above settings will result in the planning file being reduced in width, and the rightmost side of it now look like this:

Profit margin Plant	Year-m ²	Start department	Label remark
0,476	209	Prop. H1-3	
1,304	572	Prop. H1-3	
1,781	782	Prop. H1-3	



The column settings are defined locally on each client/PC, and if multiple planners are involved, each one can have their own settings dependent of each planners' individual needs. A planner with focus of selling quantities probably will not have any need or wish to know, in which departments the batches are started, whereas a planner with focus on initial production certainly will.

Notes

It is possible to add notes to each batch in the plan. The notes can be categorized into "Note Groups". These groups are defined in the Nursery file under Basic data.

Basic data files			
Nursery	Setup	Container types	Phases
Material suppl.	Anniversaries	Note groups	Outdoor temperatures
No.	Description	Short description	
1	Cuttings	Cuttings	
3	Customers	Customers	
4	Waste	Waste	
5	Fungus	Fungus	
6	Bacterie	Bacterie	

When a note is added to a planning line an "N" will be shown in the "Status" column in the planning file thus making it easy to see, which planning lines are equipped with one or more notes.

▶	60	6 cm	17-2020	Mon	27-2020	Mon	1,50	10800	8905
	60	6 cm	18-2020	Mon	27-2020	Mon	1,00	7200	6879

Budgeted plan		Adjusted plan		Realized plan	
Batch analysis		Summary groups		Notes	
Note group	Phase	Day in phase	Notes:		
▶ 4	Waste	99 Sale	Insert new section in note Waste: 15 % during sale because of Botrytis		

Users having the additional Plan Control module can monitor and edit the notes from within the form "Realized recipes". More of that later in this newsletter.

Notes can be output based on several criteria, so if you are only interested in notes regarding e.g. "Fungus", then this is possible.



Activity list

Several new fields have been added to the layout of the activity list.

- Batch start, Year-week/day: Indicates when a given batch is started.
- Date, Year-week/Day: Indicates when a given event is taking place. If the Activity list is generated per week or per month the value of this field is blank, as several different dates could be accumulated comprising other values on the line.
- Recipe: As a crop may have several different recipes, this information may be important.

These additions to the Activity list have been purely user driven, which embraces the basic idea of the GreenPlan software development: We learn that a need is existing and produces a version 1 to solve that. You try it out and tell us what extra is needed to make it fully functional.

The layout of the Activity list can be customized in several ways according to the needs.

Batch Start Labels

This function is found under “Production” in the main menu. It has been extended with three new features:

- Starting department.
- Label numbering.
- Print registration

Starting department: There might be situations where the same crop is started in different departments. In that case it will be handy if the starting location is printed on the labels to be used for the different batches.

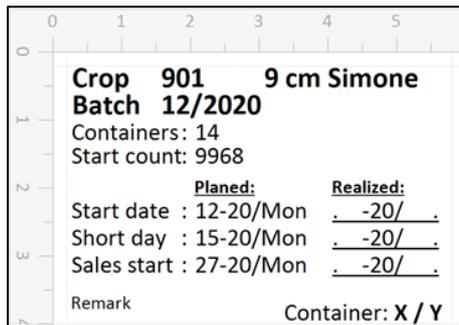
To accomplish this 3 three new fields have been added to the selectable fields, that can be included in the label design:

- [StartDepNo]. This field is - when printed - filled out with the GreenPlan number of the department, which probably will not be useful, but in some occasions it might be.
- [StartDepNameLong]. This field is – when printed - filled out with the long description of the department.



- [StartDepNameShort]. This field is – when printed - filled out with the short description of the department.

Label numbering: In order to get a sequence number printed on the label, the field [Sequence] must be included in the label design. The numbering always starts with number “1”.



It is also possible to print supplemental copies of some or all the labels. In the field “Supplemental copy of” (shown in the picture below) you can specify, which labels you want duplicated. This can be useful, if your batch is subdivided into sections e.g. fitting with irrigation sections. Assume that you have an irrigation valve for each 7 containers. Then container no. 7 can have a label in both ends, where the second one is placed in the other end of the container and denotes the end of the first section. The container next to it will have label no. 8 and you can in this way easily distinguish, where one section ends and where the next one begins. Supplemental labels are only printed, if the field [Sequence] is part of the design.

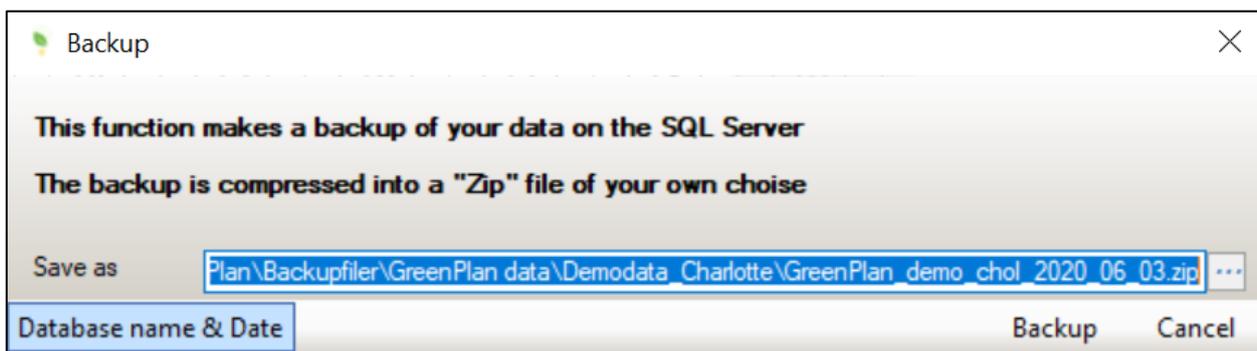
Print registration: When labels are printed for a planning line, the event is now recorded and displayed in the table to the right. Here a new column “Printed” has been introduced showing the number of times the label has been printed. At the same time the “Printed” cell is marked with a blue color, thus making it easy to track which lines already have been printed. In the example you can see, which lines already have been printed and the second lines shows, that this line has been printed twice. The “Supplemental copy of” field to the right shows, that an extra copy of the sequence numbers 7 and 14 are to be printed.

Crop	Start week	Start day	Start count	Printed	Label remark
901 9 Simone	39-20	Mon	9968	1	
901 9 Simone	40-20	Mon	9968	2	
901 9 Simone	41-20	Mon	4984		
901 9 Simone	42-20	Mon	9968		
901 9 Simone	43-20	Mon	9968		
902 9 cm Loren	39-20	Mon	9968	1	
902 9 cm Loren	40-20	Mon	4984	1	
902 9 cm Loren	41-20	Mon	9968		
902 9 cm Loren	42-20	Mon	9968		
902 9 cm Loren	43-20	Mon	9968		
902 9 cm Loren	44-20	Mon	4984	1	



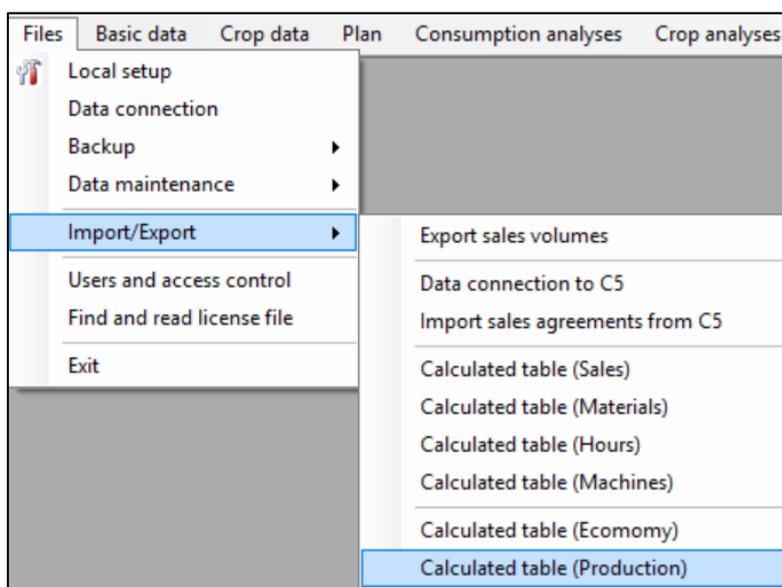
Backup

When making a backup of the data, it is possible to auto generate database name and date into the backup name by clicking on "Database name & Date" button in the bottom left of the window. It is only possible to make a backup, if the SQL Server is running locally on your workstation/client.



Export of data

In last Newsletter was written about exporting data of sales, hours and everything, there have to do with economy. Several wanted that production data also could be exported. It is possible now just as it is possible to export Materials and Machines too. How to export the data to Excel please see the Newsletter from January 2020.

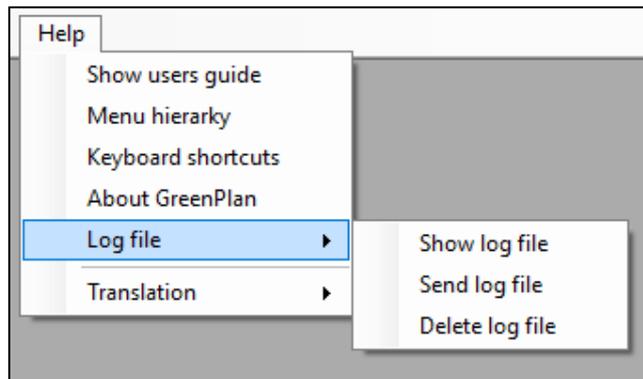




Error log

If an unexpected error occurs during execution of GreenPlan then the error is logged. It is now possible to see, send and delete the error log.

The sending function generates an email with the error log attached. The error log contains very useful information, and it is a great help, when a developer is tracking down a bug.

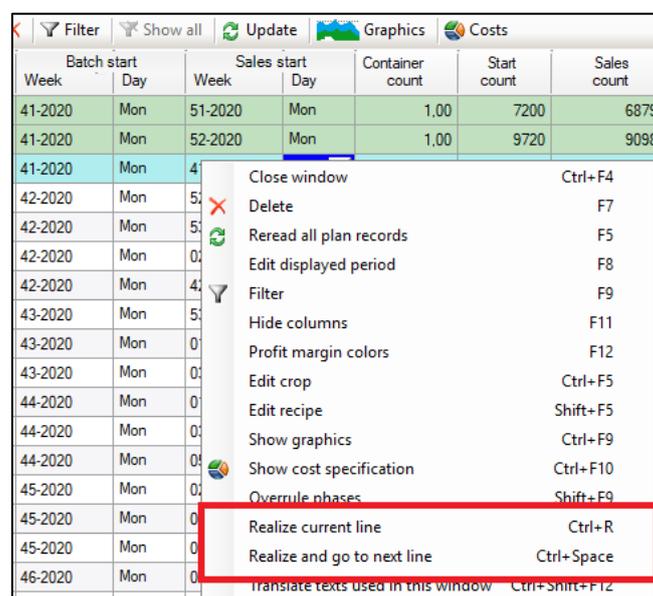


Realized recipes in PlanControl

This is a feature contained in the PlanControl module. If you do not have this, you may skip the following.

Realizing a planning line is done in the planning file in either of two ways:

- “Realize current line” [Ctrl]-[R]. This function marks the line as realized and makes a copy of all recipe data into a table containing realized recipe data.
- “Realize and go to next line” [Ctrl]-[Space]. This function does the same as the above, but afterwards focus is shifted to the next line. In this way it is easy to record e.g. a whole week in a short time. For this to be functional, the planning file should be sorted according to start date.





When a planning line is realized, the following happens:

- A copy of the underlying recipe data is extracted from the recipe file and put into the file with realized recipes. By extraction means that the relevant recipe period is located and all phase lines, material lines, operation lines and machine lines connected to the period are copied.
- All profiles subscribed to by either crop or recipe are expanded and saved as recipe materials, recipe operations and recipe machines on the realized recipe.
- Any sales profile or harvest profile is copied to a profile unique to the realized recipe.
- The planning line is tagged as realized

In this way a full and independent copy is made, on which all future calculations are made. Any changes made to the original recipe or to the profiles will have no impact on the realized recipe. Likewise, changes made to the realized recipe will have no impact on the original recipe or the original profiles.

The realized recipe form contains all recipe information attached to a realized batch. Any changes made here have immediate impact on the next analysis made.

A walk through of all the features and possibilities in this form is beyond the scope of this newsletter. Contact support if you have a need in this form you cannot figure out to solve yourself.

Realized recipes												
Crop	Batch	Recipe description	Start count	Plan start Week	Plan start Day	Real. start Week	Real. start Day	Plan sale Week	Plan sale Day	Real. sales date Week	Real. sales date Day	
100 10,5 cm	25/2020	10 cm 12 hul	9720	25-2020	Mon	25-2020	Mon	35-2020	Mon	35-2020	Mon	
100 10,5 cm	28/2020	10 cm 12 hul	9720	28-2020	Mon	28-2020	Mon	38-2020	Mon	38-2020	Mon	
100 10,5 cm	29/2020	10 cm 12 hul	9720	29-2020	Mon	29-2020	Mon	39-2020	Mon	39-2020	Mon	
100 10,5 cm	30/2020	10 cm 12 hul	19438	30-2020	Mon	30-2020	Mon	40-2020	Mon	40-2020	Mon	
100 10,5 cm	38/2020	10 cm 12 hul	9720	38-2020	Mon	38-2020	Mon	48-2020	Mon	48-2020	Mon	
100 10,5 cm	39/2020	10 cm 12 hul	9719	39-2020	Mon	39-2020	Mon	49-2020	Mon	49-2020	Mon	
100 10,5 cm	40/2020	10 cm 12 hul	9720	40-2020	Mon	40-2020	Mon	51-2020	Mon	51-2020	Mon	
100 10,5 cm	41/2020	10 cm 12 hul	9720	41-2020	Mon	41-2020	Mon	52-2020	Mon	52-2020	Mon	

Phases													
Phase	Materials	Operations	Machines	Treatments	Measurements	Notes	Department	House	Number PL/m ²	Waste (%)	Sales profile	A qual. %	Plant count
10	Prop	46-2019	Mon	5	1	1	Prop. H1-3	Nothing	387,47	3,0			7200
40	LD	51-2019	Tue	2		2	Pro. H1-3	Nothing	218,13				6984
50	Space	01-2020	Tue	3		2	Pro. H1-3	Nothing	49,99				6984
99	Sale	04-2020	Tue	2		2	Pro. H1-3	Nothing	49,99	1,5		100,00	6984



Exporting to Excel

This is technical, so if you don't care, you can skip this.

In previous versions of GreenPlan all exports to Excel were done using the Microsoft technique: "COM" (Component object model).

This approach to exporting to Excel is very similar to using macros, except that the macro commands are coming from outside Excel.

Recently this has proven not to work in some Windows10 installations with Office 365. Therefore, the whole export to Excel has been rewritten to generate a temporary file containing "Office-xml", which then is read into Excel.

This works MUCH faster than the COM-approach, and you can now generate very large spreadsheets without any substantial delay.

This solution has been tested in several different environments, but if you experience any kind of trouble with this new approach, please let us know.