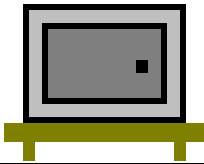


Determination and visualisation of water content by
oven drying according to DIN EN ISO 17892-1

GGU-WATER

VERSION 7



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1 Preface

The **GGU-WATER** program system allows determination and visualisation of water content by oven drying to DIN EN ISO 17892-1.

The program is designed to allow simple data input. The system is permanently displayed on the screen. Every alteration to the data is shown on the screen, so that optimum control of input data is guaranteed. Graphic output supports the true-type fonts supplied with WINDOWS, so that excellent layout is guaranteed. Colour output and any graphics (e.g. files in formats BMP, JPG, PSP, TIF, etc.) are supported. PDF and DXF files can also be imported by means of the integrated **Mini-CAD** module (see the "**Mini-CAD**" manual).

The program has been thoroughly tested on numerous examples from the literature and in engineering practice. No faults have been found. Nevertheless, liability for completeness and correctness of the program and the manual, and for any damage resulting from incompleteness or incorrectness, cannot be accepted.

2 Licence protection

GGU software is provided with the WIBU-Systems CodeMeter software protection system. For this purpose the GGU-Software licences are linked to a USB dongle, the WIBU-Systems CmStick, or as CmActLicense to the respective PC hardware.

It is required for licence access that the CodeMeter runtime kit (CodeMeter software protection driver) is installed. Upon start-up and during running, the **GGU-WATER** program checks that a licence on a CmStick or as CmActLicense is available.

3 Language selection

GGU-WATER is a bilingual program. The program always starts with the language setting applicable when it was last ended.

The language preferences can be changed at any time in the "**Info**" menu, using the menu item "**Spracheinstellung**" (for German) or "**Language preferences**" (for English).

4 Starting the program

After starting the program, you will see two menus at the top of the window:

- File
- Info

After clicking the "**File**" menu, either an existing file can be loaded by means of the "**Load**" menu item, or new tests can be entered using "**New**". After clicking "**File/New**", the type of test must be selected from a dialog box. An empty form is then displayed on the screen with the designation of the selected test type. Then, the menu bar will show five menus:

- File
- Edit
- Graphics preferences
- Output preferences
- Info

After clicking one of these menus, the menu items roll down, allowing you access to all program functions.

The program works on the principle of ***What you see is what you get***. This means that the screen presentation represents, overall, what you will see on your printer. In the last consequence, this would mean that the screen presentation would have to be refreshed after every alteration you make. For reasons of efficiency and as this can take several seconds for complex screen contents, the **GGU-WATER** screen is not refreshed after every alteration.

If you would like to refresh the screen contents, press either [F2] or [Esc]. The [Esc] key additionally sets the screen presentation back to your current zoom, which has the default value 1.0, corresponding to an A4 format sheet.

5 Description of menu items

5.1 *File menu*

5.1.1 "New" menu item

All input data will be deleted after a security request. After this, you can enter new tests.

5.1.2 "Load" menu item

You can load a file with test data, which was created and saved at a previous sitting, and then edit the test data.

5.1.3 "Save" menu item

You can save data entered or edited during program use to a file, in order to have them available at a later date, or to archive them. The data is saved without prompting with the name of the current file.

5.1.4 "Save as" menu item

You can save data entered during program use to an existing file or to a new file, i.e. using a new file name. For reasons of clarity, it makes sense to use ".wgh" as file suffix, as this is the suffix used in the file requester box for the menu item "File/Load". If you choose not to enter an extension when saving, ".wgh" will be used automatically.

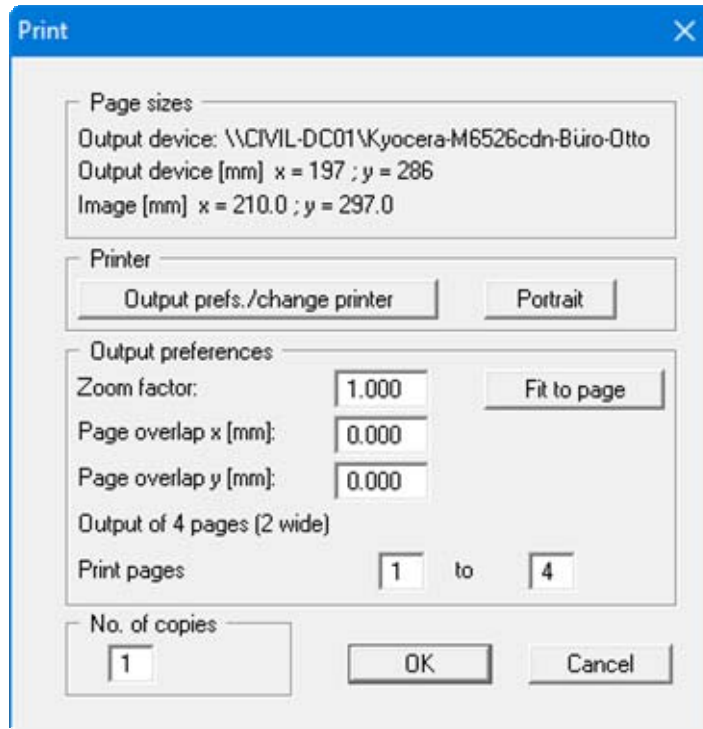
5.1.5 "Output preferences" menu item

You can edit output preferences (e.g. swap between portrait and landscape) or change the printer in accordance with WINDOWS conventions.

5.1.6 "Print and export" menu item

You can select your output format in a dialog box. You have the following possibilities:


- **"Printer"**
allows graphic output of the current screen contents (*graphical representation*) to the WINDOWS default printer or to any other printer selected using the menu item **"File/Output preferences"**. But you may also select a different printer in the following dialog box by pressing the **"Output prefs./change printer"** button.



In the upper group box, the maximum dimensions which the printer can accept are given. Below this, the dimensions of the image to be printed are given. If the image is larger than the output format of the printer, the image will be printed to several pages (in the above example, 4). In order to facilitate better re-connection of the images, the possibility of entering an overlap for each page, in x and y direction, is given. Alternatively, you also have the possibility of selecting a smaller zoom factor, ensuring output to one page ("**Fit to page**" button). Following this, you can enlarge to the original format on a copying machine, to ensure true scaling. Furthermore, you may enter the number of copies to be printed.

- **"DXF file"**
allows output of the graphics to a DXF file. DXF is a common file format for transferring graphics between a variety of applications.
- **"GGU-CAD file"**
allows output of the graphics to a file, in order to enable further processing with the **GGU-CAD** program. Compared to output as a DXF file this has the advantage that no loss of colour quality occurs during export.

- **"Clipboard"**
The graphics are copied to the WINDOWS clipboard. From there, they can be imported into other WINDOWS programs for further processing, e.g. into a word processor. In order to import into any other WINDOWS program you must generally use the *"Edit/Paste"* function of the respective application.
- **"Metafile"**
allows output of the graphics to a file in order to be further processed with third party software. Output is in the standardised EMF format (Enhanced Metafile format). Use of the Metafile format guarantees the best possible quality when transferring graphics.

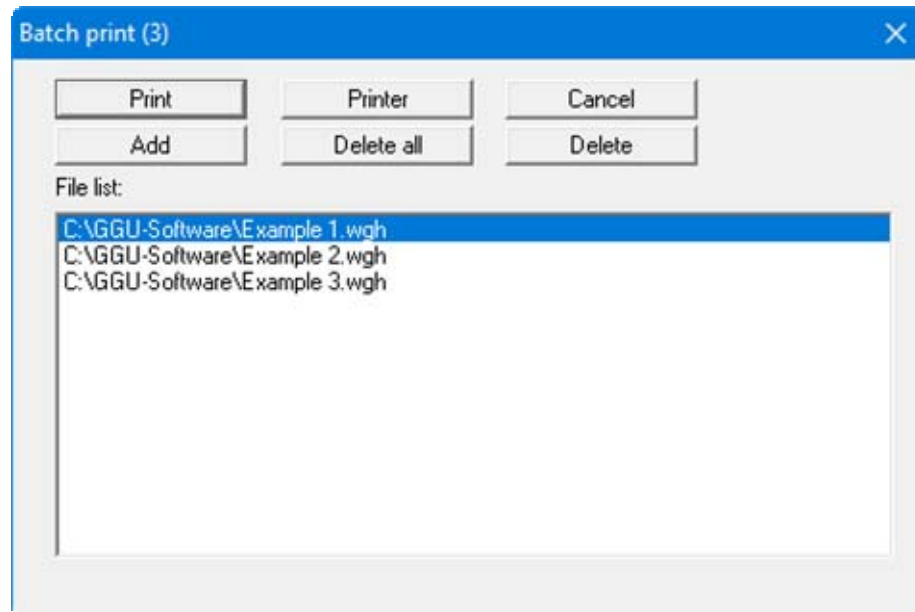
If you select the **"Copy/print area"** tool  from the toolbar, you can copy parts of the graphics to the clipboard or save them to an EMF file. Alternatively you can send the marked area directly to your printer (see **"Tips and tricks"**, Section 6.3).

Using the **"Mini-CAD"** program module you can also import EMF files generated using other GGU applications into your graphics (see Section 5.3.5).

- **"Mini-CAD"**
allows export of the graphics to a file in order to enable importing to different GGU applications with the **Mini-CAD** module.
- **"GGUMiniCAD"**
allows export of the graphics to a file in order to enable processing in the **GGUMiniCAD** program.
- **"Cancel"**
Printing is cancelled.

5.1.7 "Batch print" menu item

If you would like to print several appendices at once, select this menu item. You will see the following dialog box:



Create a list of files for printing using "**Add**" and selecting the desired files. The number of files is displayed in the dialog box header. Using "**Delete**" you can mark and delete selected individual files from the list. After selecting the "**Delete all**" button, you can compile a new list. Selection of the desired printer and output preferences is achieved by pressing the "**Printer**" button.

You then start printing by using the "**Print**" button. In the dialog box which then appears you can select further preferences for printer output such as, e.g., the number of copies. These preferences will be applied to all files in the list.

5.1.8 "Exit" menu item

After a confirmation prompt, you can quit the program.

5.1.9 "1, 2, 3, 4" menu items

The "**1, 2, 3, 4**" menu items show the last four files worked on. By selecting one of these menu items the listed file will be loaded. If you have saved files in any other folder than the program folder, you can save yourself the occasionally onerous *rummaging* through various sub-folders.

5.2 Edit menu

5.2.1 "Preferences" menu item

The water content is given in percent in the **GGU-WATER** program default setting. This preference can be deactivated in the dialog box for this menu item.

5.2.2 "Tests" menu item

This represents the program's central menu item. All the basic data for determining the water content is entered here. After clicking this menu item or double-clicking in the table area the following dialog box opens (example):

No.	Designation	Wet sample + container [g]	Dry sample + container [g]	Container [g]	Single result
1	P 1	583.10	511.90	134.00	?
2	P 2	707.30	617.00	154.50	?
3	P 3	558.40	486.50	131.60	?
4	P 4	610.50	534.40	153.90	?
5	P 5	725.00	629.30	153.90	?
6	P 6	723.20	620.90	121.80	?
7	P 7	801.40	692.20	155.00	?

This example contains seven single tests, each represented by an input row. The automatic numbering of the tests defines the sequence in the table. You define the number of input rows needed using the "**x Tests to edit**" button.

Enter the relevant data in the displayed input boxes to determine the water content. However, if you use containers with standard weights for your tests it is recommended to store the weights of the respective containers in a database. Press the "**Switch to container input from database**" button and then select the container used from the list of containers in the pull-down menu. The database can be stored using the menu item "**Edit/Container database**" (see Section 5.2.6).

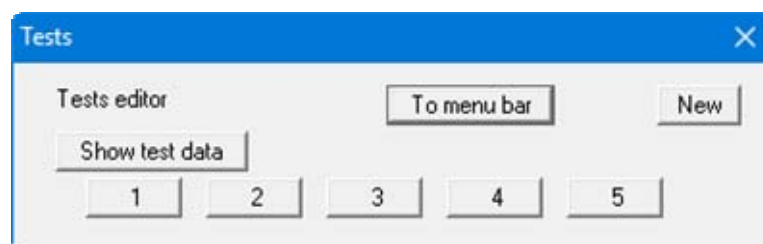
The container database can also be accessed when using other GGU laboratory programs.

Using the "?" button behind every input row the input data and test results corresponding to the single test are displayed in a message box. The data are subsequently displayed in the results table on the output sheet. You can view the input data and test results in tabulated form in a message box for all tests entered by clicking the "**Show test data**" button.

After clicking the "**Delete single test**" button, you can select one of the current single tests to be deleted in an option box. You may duplicate and adapt an existing test by clicking "**Duplicate single test**". You can modify the sequence of the tests entered by clicking the "**Sort**" button, assuming the designations allow for numerical or alphabetic sorting.

Using "**Done**" or "**Cancel**" you return to the menu list, having accepted the changes or not, respectively.

Further input boxes for entering additional information (e.g. soil type) can be defined using the menu item "**Output preferences/Table texts + allocations**" (see Section 5.4.3). If you have used this option you will no longer see the test input dialog box shown above. Each individual test is opened separately via a button with the automatically allocated test number:



For example, you will see the following dialog box for the first test:

The additional input boxes are shown at the bottom of the dialog box; for soil type input in this example.

5.2.3 "Delete all tests" menu item

After a security request, all tests will be deleted. After this, you can enter a new test using the "Edit/Tests" menu item (see Section 5.2.2).

5.2.4 "General" menu item

Go to this menu item to enter general data such as the project identification, report number, annex number, etc. This data is displayed in the correct elements of the output sheet.

Label	Value
Project (1st line):	Example village
Project (2nd line):	
Project (3rd line):	
Edited by:	Meyer
Edit date:	12.12.2017
Test no.:	1234567
Sampling point:	House pond
Depth:	Base
Soil type:	Disturbed
Sampling method:	Ooze
Sample taken on:	11.12.2017
Report:	1234 / 17
Annex:	1

The marked texts in the dialog box also appear in the output sheet. Input boxes can be altered or switched off such as "Test number:" as shown in the above dialog box by going to the "Output preferences/Texts" menu item (see Section 5.4.2).

5.2.5 "Company" menu item

You can enter your company address in four lines. These lines will be entered at the top left of the form.

5.2.6 "Container database" menu item

If you use containers with standard weights for your tests, their weights can be stored in a container database using the dialog box in this menu item.

The screenshot shows a dialog box titled "Container" with a close button (X) in the top right corner. Inside the dialog, there are several buttons: "Forw.", "Back", "Cancel", "Done", "Load", "Info", and "Save". Below these buttons is a label "3 containers to be edited". Underneath the label is a table with three columns: "No.", "Name", "Weight [g]", and "Volume [cm³]". The table contains three rows of data:

No.	Name	Weight [g]	Volume [cm³]
1	No. 1	84.65	813.000
2	No. 2	81.40	768.000
3	No. 3	83.75	795.000

Enter the number of containers to be defined via the "**x containers to edit**" button. The corresponding number of rows for input will then be shown. If more than 8 containers are defined you can navigate through the list using the "**Forw.**" and "**Back**" buttons.

If you work with several databases you can save the containers to a database or load a different database using the appropriate buttons. The database file is first searched for in the program folder, then at the working level and finally in the Windows folder. It is generally practical to store the container database in the Windows folder if it is also to be accessed by other GGU laboratory programs. If the database file is saved using the default name of "**GGU-Database.bh_**" it is automatically loaded when the program starts. This information is also stored behind the "**Info**" button.

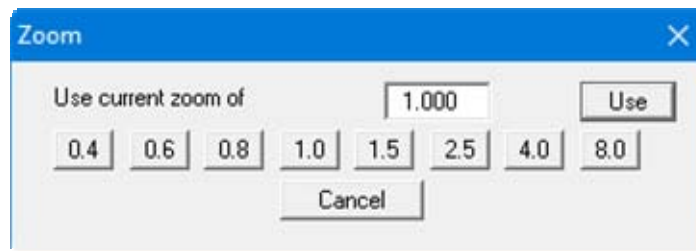
The containers stored in the database can be accessed in a drop-down combo box in the menu item "**Edit/Tests**" (see Section 5.2.2).

5.3 Graphics preferences menu

5.3.1 "Refresh and zoom" menu item

The program works on the principle of *What you see is what you get*. This means that the screen presentation represents, overall, what you will see on your printer. In the last consequence, this would mean that the screen presentation would have to be refreshed after every alteration you make. For reasons of efficiency and as this can take several seconds for complex screen contents, the screen is not refreshed after every alteration.

If, e.g., after using the zoom function (see below), only part of the image is visible, you can achieve a complete view using this menu item.



A zoom factor between 0.4 and 8.0 can be entered in the input box. By then clicking on "Use" to exit the box the current factor is accepted. By clicking on the "0.4", "0.6", etc. buttons, the selected factor is used directly and the dialog box closed.

It is much simpler, however, to get a complete overview using [Esc]. Pressing [Esc] allows a complete screen presentation using the zoom factor specified in this menu item. The [F2] key allows screen refreshing without altering the coordinates and zoom factor.

5.3.2 "Zoom info" menu item

By clicking two diametrically opposed points you can enlarge a section of the screen in order to view details better. An information box provides information on activating the zoom function and on available options.

5.3.3 "Legend font selection" menu item

With this menu item you can switch to a different true-type font. All available true-type fonts are displayed in the dialog box.

5.3.4 "Font size selection" menu item

You can edit font sizes of texts [in mm] within the various input areas.

5.3.5 "Mini-CAD toolbar" menu item

Using this menu item you can add free text to the graphics and add lines, circles, polygons and images (e.g. files in formats BMP, JPG, PSP, TIF, etc.). PDF files can also be imported as images. A pop-up menu opens, the icons and functions used are described in more detail in the **Mini-CAD** manual saved in the 'C:\Program Files (x86)\GGU-Software\ Manuals' folder during installation.

5.3.6 "Toolbar preferences" menu item

After starting the program a horizontal toolbar for menu items appears below the program menu bar. If you would rather work with a popup window with several columns, you can specify your preferences using this menu item. The smart icons can also be switched off.

At the bottom of the program window you find a status bar with further information. You can also activate or switch off the status bar here. The preferences will be saved in the "**GGU-WATER.alg**" file (see menu item "**Graphics preferences/Save graphics preferences**") and will be active at the next time the program is started.

By clicking on the tools (smart icons) you can directly reach most of the program functions. The meaning of the Smart icons appears as a text box if you hover with the mouse pointer over the tools. Some of the tool functions can be activated from the normal menu items.



"Zoom out"

If you have previously *zoomed in*, this tool returns to a full screen display.



"Zoom (-)"/"Zoom (+)"

With the zoom functions you can zoom in or out of parts of the image, by clicking the left mouse button.



"Undo move object"

If you have previously edited the position or size of an element on the output sheet ([F11] or used "**Output preferences/Move objects**"), you can undo the last changement with this tool.



"Restore move object"

If you have previously undone a changement, you can restore with this tool.



"Copy/print area"

Use this tool to copy only parts of the graphics in order to paste them, e.g. to a report. You will see information on this function and can then mark an area, which is copied to the clipboard or can be saved in a file. Alternatively you can send the marked area directly to your printer (see "**Tips and tricks**", Section 6.3).

5.3.7 "Load graphics preferences" menu item

You can reload a graphics preferences file into the program, which was saved using the "**Graphics preferences/Save graphics preferences**" menu item. Only the corresponding data will be refreshed.

5.3.8 "Save graphics preferences" menu item

Some of the preferences you made with the menu items of the "**Graphics preferences**" menu as well as the inputs using the "**Edit/Company**" menu item can be saved to a file. If you select "**GGU-WATER.alg**" as file name, and save the file on the same level as the program, the data will be automatically loaded the next time the program is started and need not be entered again.

If you do not go to "**File/New**" upon starting the program, but open a previously saved file instead, the preferences used at the time of saving are shown. If subsequent changes in the general preferences are to be used for existing files, these preferences must be imported using the menu item "**Graphics preferences/Load graphics preferences**" (see Section above).

5.4 Output preferences menu

5.4.1 "Page size" menu item

The default page set-up is A4 (portrait) when the program is started. You can edit the page size in the dialog box.

5.4.2 "Texts" menu item

The default labelling of some output sheet elements can be edited in this menu item's dialog box. Among other things, the name of the output sheet can be specified here.

The 'Texts' dialog box is shown with the following settings:

Field	Value
Heading 1:	Water content
Heading 2:	to DIN EN ISO 17892-1
Report:	Report:
Annex:	Annex:
<input type="checkbox"/> Row 1:	Test no.:
<input checked="" type="checkbox"/> Row 2:	Sampling point:
<input checked="" type="checkbox"/> Row 3:	Depth:
<input checked="" type="checkbox"/> Row 4:	Soil type:
<input checked="" type="checkbox"/> Row 5:	Sampling method:
<input checked="" type="checkbox"/> Row 6:	Sample taken on:

Your input in rows 1 to 6 of the above dialog box, as well as the input for "**Report:**" and "**Annex:**" also represent the designations for the input boxes in the "Edit/General" menu item dialog box. If lines are deactivated in the above dialog box, the corresponding input boxes in the "**Edit/General**" menu item dialog box are also deactivated (see Section 5.2.4).

Use "**Reset**" to restore the default labelling settings. If you have retroactively changed the language you will see the internal program translations in the input boxes.

5.4.3 "Table texts + allocations" menu item

A dialog box opens for specifying the parameters and properties to be displayed in the result table. It is possible to display up to a maximum of 14 lines. The sequence corresponds to the numbering in the following dialog box:

Row	Heading	What to enter?
1	Sample designation:	Sample designation
2	Wet sample + container [g]:	Wet sample + cont.
3	Dry sample + container [g]:	Dry sample + cont.
4	Container [g]:	Container
5	Pore water [g]:	Pore water
6	Dry sample [g]:	Dry sample
7	Water content [%]:	Water content
8	Mean value [%]:	Mean value
9	Soil type:	Free text
10	Nr. 10	None
11	Nr. 11	None
12	Nr. 12	None

Enter texts by hand in the "**Heading**" boxes, which are later used as a label. After clicking the arrows in the "**Enter what?**" column the data or text in the drop-down list entered by hand or determined by the program can be allocated to the rows of the results table. Lines with a "**None**" allocation are not displayed.

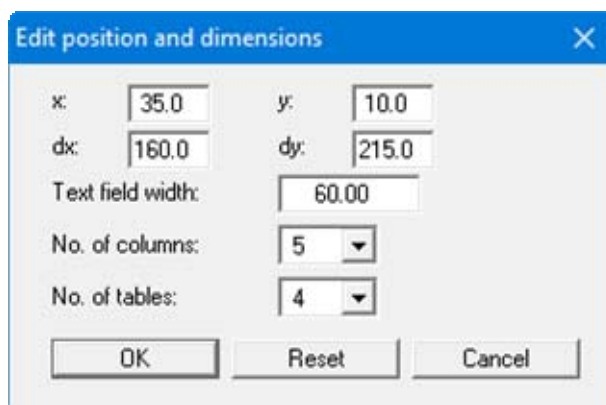
If information that is not found in the table default texts needs to be added to the results table, a "**Free text**" can be used. This row then appears in the test data input box with the user-defined labelling (see Section 5.2.2).

The "**Reset**" button resets the labelling and allocations of the results table to the defaults. If you have retroactively changed the language you will get the internal program translations.

Depending on whether water content visualisation is selected in per cent or not in the "**Edit/Preferences**" menu item (see Section 5.2.1), rows 7 and 8 are labelled in [%] or dimensionless. The "**Means info**" button opens a message box with a description of the "**Mean value**" row.

5.4.4 "No. of tables, columns, etc." menu item

Using this menu item, not only the position and size of the table elements can be varied, but also the structure of the results table: The number of columns to be included in the table can be specified in the dialog box, together with the number of any tables to be created. The overall size of the table is given by "**dx**" and "**dy**". The menu item "**Output preferences/Table**" provides identical options for changing the table appearance (see Section 5.4.11).



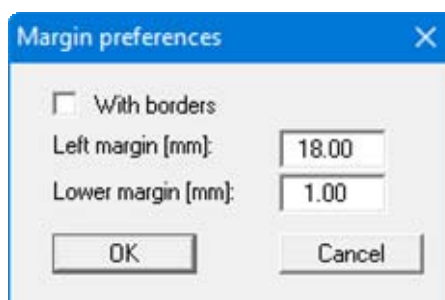
The dialog box titled "Edit position and dimensions" has a blue header bar with a close button (X). It contains several input fields and two dropdown menus. The fields are: x (35.0), y (10.0), dx (160.0), dy (215.0), Text field width (60.00), No. of columns (5), and No. of tables (4). The "No. of columns" and "No. of tables" are dropdown menus. At the bottom, there are three buttons: OK, Reset, and Cancel.

The width of the left table column with the labelling is specified in the "**Text field width**" input box. The width is given in [mm], the labelling font size is automatically adjusted to the available space. The number of tests (= columns) to be visualised in a results table can be specified using the "**No. of columns**" drop-down list box. The columns are divided equally across the remaining table width, the font size of the column headings and test data is also adapted to the available space.

The number of rows in a results table and the labelling of the first row can be adapted to suit user-requirements using the menu item "**Output preferences/Table texts + allocations**" (see Section 5.4.3).

5.4.5 "Margins" menu item

In the default program preferences the form is shown with cutting borders. For output to an A4 printer, a reduction of the printer output is generally necessary, as proprietary printers cannot fully cover an A4 page. The margin preferences can be defined in the following dialog box.



The dialog box titled "Margin preferences" has a blue header bar with a close button (X). It contains a checkbox labeled "With borders" which is unchecked. Below the checkbox are two input fields: "Left margin [mm]" with the value 18.00 and "Lower margin [mm]" with the value 1.00. At the bottom, there are two buttons: OK and Cancel.

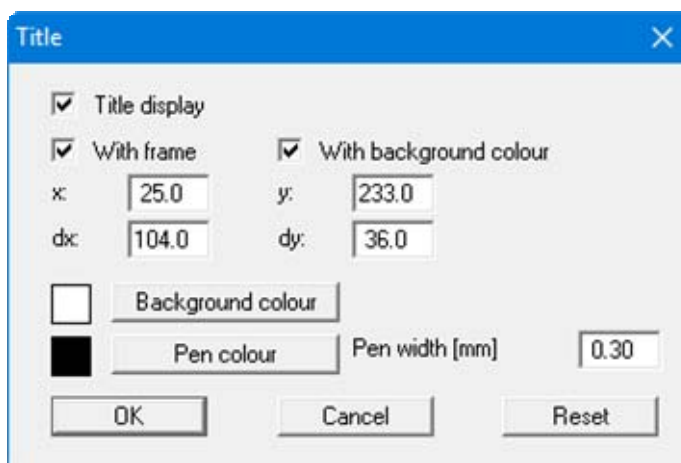
By deactivating the "**With borders**" check box and with an appropriate choice of left and lower margins, it is generally possible to create a non-reduced printer output. It is necessary to also adapt the page height and width (see Section 5.4.1).

5.4.6 "Position info" menu item

The positions and layout of the individual elements on the output sheet can be altered using the following menu items. This menu item provides information on the options for altering the position and layout more quickly using the mouse.

5.4.7 "Title (change position)" menu item

The position and layout of the title element can be altered via the dialog box for this menu item, if the "Title display" check box is activated.



The position of the element on the output sheet and its size can be defined or edited by means of the variables "x" and "y", "dx" and "dy". The element can be provided with a frame and a background colour to suit your personal requirements. If the element needs to be returned to its original condition, this can be done using the "Reset" button. Alternatively, you can alter the size and shape of the element using the mouse (see menu item "Output preferences/Move objects", Section 5.4.13).

The heading "Water content" shown in the title element can be edited in the menu item "Output preferences/Texts" (see Section 5.4.2). The texts "Project (1st line)" to "Project (3rd line)" are entered immediately after double-clicking the element or using the menu item "Edit/General" (see Section 5.2.4).

5.4.8 "Company" menu item

Almost exactly the same dialog box opens with the same preference options as that described in the "Output preferences/Title (change position)" menu item (see Section 5.4.7). Simply proceed as described there to edit the "Company" element.

The input for this element can be edited immediately after double-clicking on the element or via the menu item "Edit/Company" (see Section 5.2.5).

5.4.9 "Test no., etc." menu item

Almost exactly the same dialog box opens with the same preference options as that described in the "**Output preferences/Title (change position)**" menu item (see Section 5.4.7). To edit the "**Test no., etc.**" element, simply proceed as described there.

The input for this element can be edited immediately after double-clicking on the element or via the menu item "**Edit/General**" (see Section 5.2.4). For this element you also have the option of adapting the texts in front of the input boxes to suit your needs. Go to the menu item "**Output preferences/Texts**" (see Section 5.4.2).

5.4.10 "Annex and report" menu item

Almost exactly the same dialog box opens with the same preference options as that described in the "**Output preferences/Title (change position)**" menu item (see Section 5.4.7). To edit the "**Annex and report**" element, simply proceed as described there.

The input for this element can be edited immediately after double-clicking on the element or via the menu item "**Edit/General**" (see Section 5.2.4). For this element you also have the option of adapting the texts in front of the input boxes to suit your needs. Go to the menu item "**Output preferences/Texts**" (see Section 5.4.2).

5.4.11 "Table" menu item

Exactly the same dialog box opens with the same options to edit position, size and structure of the results table as that described in the "**Output preferences/No. of tables, columns, etc.**" menu item (see Section 5.4.4). To edit the "**Table**" element, simply proceed as described there.


5.4.12 "Reset all" menu item

With this button, all preferences for the aforementioned elements, which may have been edited with the previous menu item, will be reset to the program defaults.


5.4.13 "Move objects" menu item

When you go to this item you can move the various objects with the aid of the mouse. Move the mouse over the object to be moved. When you are located above a moveable object the mouse pointer appears in the shape of a cross. You can now press and hold the left mouse button and drag the object to the required position.

After going to this menu item only one object at a time can be moved using the mouse or its size be altered.

In order to move or edit several objects, this function can be more quickly activated by pressing [F11] or the  icon.

The size of an object can also be altered using this menu item or the [F11] key. If you move over the frame of a changeable object after activating this function the mouse assumed the shape of a double-headed arrow. Hold the left mouse button and move the frame until the object has reached the required size. To retain the ratio of the sides, pull at one corner only. If on one side only is pulled the object will become higher or wider.

The last change made in the position or size of an object can be undone using [**Back**] or by clicking the  icon.

5.5 Info menu

5.5.1 "Copyright" menu item

You will see a copyright message and information on the program version number.

The **"System"** button shows information on your computer configuration and the folders used by **GGU-WATER**.

5.5.2 "Maxima" menu item

You will see information on the default program maxima.

5.5.3 "Help" menu item

The **GGU-WATER** manual is opened as a PDF document. The help function can also be accessed using the **[F1]** function key.

5.5.4 "GGU on the web" menu item

Using this menu item you can access the GGU Software website: www.ggu-software.com.

Get information on updates and modifications on a regular basis from your program module page. You can also subscribe to email notifications, which provide information on all modifications on a monthly basis.

5.5.5 "GGU support" menu item

This menu item takes to the GGU-Software Contact area at www.ggu-software.com.

5.5.6 "What's new?" menu item

You will see information on program improvements in comparison to older versions.

5.5.7 "Language preferences" menu item

This menu item allows you to switch the menus and the graphics from German to English and vice versa. To work in German, deactivate the two check boxes **"Dialoge + Menüs übersetzen (translate dialogues, menus)"** und **"Graphiktexte übersetzen (translate graphics)"**.

Alternatively, you can work bilingually, e.g. with German dialog boxes but with graphic output in English. The program always starts with the language setting applicable when it was last ended.

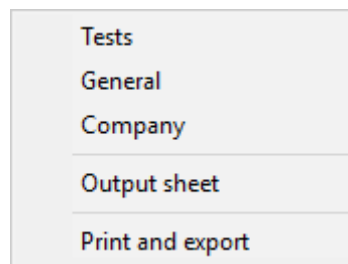
6 Tips and tricks

6.1 Keyboard and mouse

You can scroll the screen with the keyboard using the cursor keys and the [**Page up**] and [**Page down**] keys. By clicking and pulling with the mouse, with [**Ctrl**] pressed, you activate the zoom function, i.e. the selected section will fill the screen. Furthermore you can use the mouse wheel to zoom in/out or scrolling the screen presentation. The following mouse wheel functions are available:

- Mouse wheel up = move screen image up
- Mouse wheel down = move screen image down
- [**Ctrl**] + mouse wheel up = enlarge screen image (zoom in)
- [**Ctrl**] + mouse wheel down = shrink screen image (zoom out)
- [**Shift**] + mouse wheel up = move screen image right
- [**Shift**] + mouse wheel down = move screen image left

If you click the right mouse button anywhere on the screen a context menu containing the principal menu items opens.




By double-clicking the left mouse button on output sheet elements or **Mini-CAD** objects, the editor for the selected object immediately opens, allowing it to be edited. By double-clicking output sheet elements while holding the [**Shift**] key, the preferences for the position, size and appearance of the element open for editing in the editor.

6.2 Function keys

Some of the function keys are assigned program functions. The allocations are noted after the corresponding menu items. The individual function key allocations are:

- [**Esc**] refreshes the screen contents and sets the screen back to your current zoom, which has the default value 1.0. This is useful if, for example, you have used the zoom function to display parts of the screen and would like to quickly return to a complete overview.
- [**F1**] opens the manual file.
- [**F2**] refreshes the screen without altering the current magnification.
- [**F11**] activates the menu item "**Output preferences/Move objects**".

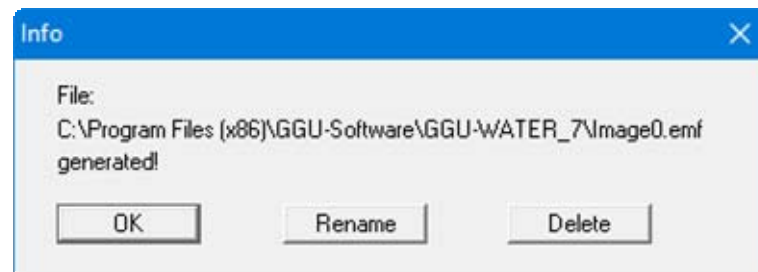
6.3 "Copy/print area" icon

A dialog box opens when the "Copy/print area" icon  in the menu toolbar is clicked, describing the options available for this function. For example, using this icon it is possible to either copy areas of the screen graphics and paste them into the report, or send them directly to a printer.

In the dialog box, first select where the copied area should be transferred to: "**Clipboard**", "**File**" or "**Printer**". The cursor is displayed as a cross after leaving the dialog box and, keeping the left mouse button pressed, the required area may be enclosed. If the marked area does not suit your requirements, abort the subsequent boxes and restart the function by clicking the icon again.

If "**Clipboard**" was selected, move to the MS Word document (for example) after marking the area and paste the copied graphics using "*Edit/Paste*".

If "**File**" was selected, the following dialog box opens once the area has been defined:



The default location of the file is the folder from which the program is started and, if several files are created, the file is given the file name "**Image0.emf**" with sequential numbering. If the "**Rename**" button in the dialog box is clicked, a file selector box opens and the copied area can be saved under a different name in a user-defined folder. Saving can be aborted by pressing the "**Delete**" button.

If the "**Printer**" button was pressed in the first dialog box, a dialog box for defining the printer settings opens after marking the area. Following this, a dialog box for defining the image output settings opens. After confirming the settings the defined area is output to the selected printer.

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