

Farm Works™ Surface software is an analysis and design tool for use with the Trimble® WM-Drain® farm drainage solution. Surface ensures the optimal placement of tile and surface drains in both surface and sub-surface drainage water management projects, helping to drain fields adequately and increase crop yields. Easily overlay other layers such as yield or soil types to help visualise the field from different perspectives.

Key Features

- Utilise 3D modeling for each field, detailing the high and low spots.
- Determine the various watershed zones of the field to assist with main, submain, and lateral pipe placement.
- Enable flow arrows and tributary lines to assist with tracing the natural surface water flows.
- Utilise drawing tools to tie laterals to mains, create parallel lateral spacings, and clip drainage lines.
- Eliminate guesswork by calculating pipe sizes automatically based on terrain, depth, drainage coefficient, and more.
- Print out maps that include useful information such as drain lengths and the total amount of each material required.

Survey Options

Trimble offers two options for collecting topographic data:

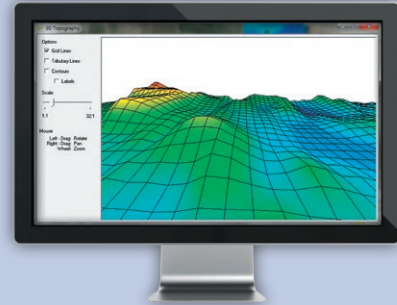
1. FmX® integrated display – popular in-cab display can be unlocked for the WM-Drain solution at a positioning level of RTK or GLONASS for topographic mapping.
2. WM-Topo™ survey system – portable solution can be used separately or in conjunction with the FmX display to collect topographic data in hard-to-reach areas such as ditches, steep terrain, muddy fields, or fields with mature crop cover.

Office to Field Data Exchange

Connected Farm™ eliminates the need for USB storage devices by transferring your planned and completed drainage designs between the office and field using wireless technology. Using Connected Farm allows quicker access to information, resulting in better farm management decisions.

3D Modeling

- View topography data in 3D from any angle and enhance the vertical to visualise the shape and slopes of the field.

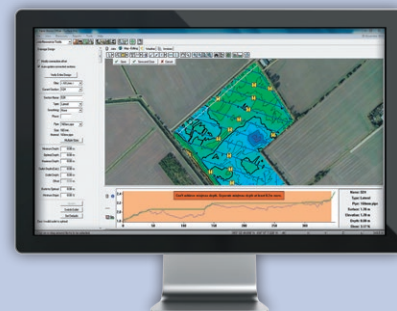


Levee Creation

- Create levee paths from topography data based on contour, interval, and turn radius settings.

Drainage Line Creation

- Utilise the drawing tools to tie laterals to mains, create parallel lateral spacings, and clip drainage lines.
- Plan and design drainage by size, pipe type and phase, then enter the minimum depth, maximum depth, and optimum grade for each section.
- Print out maps that include useful information such as drain lengths and the total amount of each material required.
- Easily make design adjustments based on vertical profile and set or change direction of water outlet.



Section	Interval	Plan	Multiple Sizes	Estimate/Analyze	Log
S1	10.000	Multiple	View	View	
S2	2.170	4"		View	View
S3	2.170	4"		View	View
S4	2.170	4"		View	View
S5	2.170	4"		View	View
S6	2.170	4"		View	View
S7	2.100	4"		View	View
S8	2.100	4"		View	View
S9	2.100	4"		View	View
S10	2.100	4"		View	View
S11	2.100	4"		View	View
S12	2.100	4"		View	View
S13	2.100	4"		View	View
S14	10.170	Multiple	View		
S15	1.000	4"		View	View
S16	1.200	4"		View	View
S17	1.000	4"		View	View
S18	0.010	4"		View	View
S19				View	View

Automatic Pipe Sizing

- Eliminate guesswork by calculating pipe sizes automatically based on terrain, depth, drainage coefficient, and more.
- Create optimal drainage designs for both large and small pipes without the difficulty of manual calculations.
- Generate estimate costs for each drainage design by entering your average length of role, minimum pipe or tile length, and price per metre.

Trimble Agriculture Division
 10368 Westmoor Drive
 Westminster, CO 80021
 USA
 +1-720-887-6100 Phone
 +1-720-887-6101 Fax

Trimble Navigation Limited
 Corporate Headquarters
 935 Stewart Drive
 Sunnyvale, CA 94085
 USA
 +1-408-481-8000 Phone
 +1-408-481-7740 Fax

Farm Works Sales
 USA +1 800-225-2848 Phone
 Canada +1 888-309-4990 Phone
 Worldwide +1 260-488-3492 Phone
 Europe +44 1786-465100 Phone
 Australia and New Zealand
 +61 (3) 8680-7222 Phone



www.trimble.com/agriculture