



WM-Subsurface

SOFTWARE

WM-Subsurface (formerly known as Farm Works™ Surface) is farm drainage software that works with the Trimble® WM-Drain® farm drainage solution. WM-Subsurface software 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 visualize the field from different perspectives.

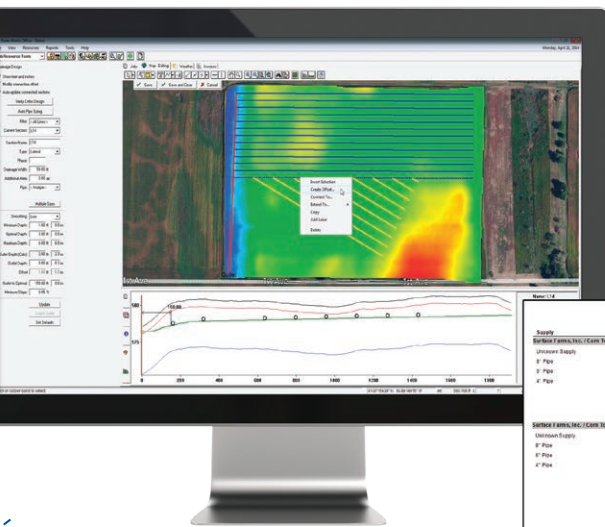
SURVEY OPTIONS

Trimble offers two options for collecting topographic data:

1. Trimble TMX-2050™ or FmX® displays – these 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 TMX-2050 or FmX displays to collect topographic data in hard-to-reach areas such as ditches, steep terrain, muddy fields, or fields with mature crop cover.

Key Features

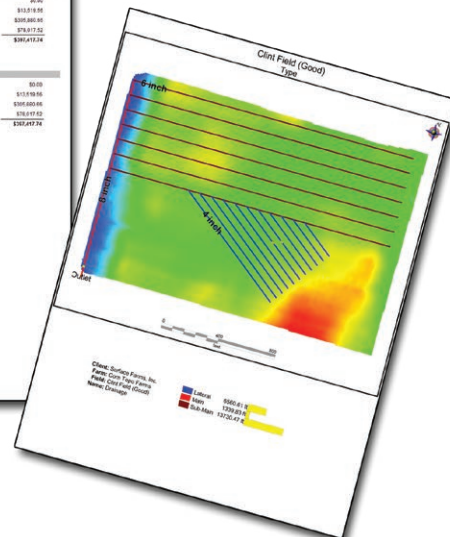
- ▶ Utilize 3D modeling for each field, detailing the high and low spots
- ▶ Determine the various watershed zones of the field to assist with main, submain, and lateral pipe placement
- ▶ Enable flow arrows and tributary lines to assist with tracing the natural surface water flows
- ▶ Utilize drawing 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

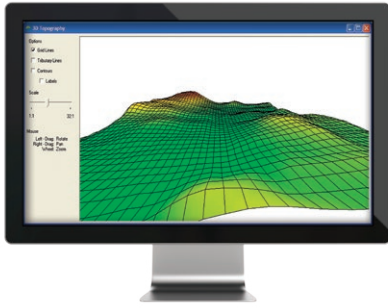


Drainage Report - Planned

Drainage	Size	Quantity	Unit Cost	Supply Cost
Submain (Farm Works, Inc. Core Tiles Farm) - Chief (60' x 60')				
Unknown Supply		7,547.01	\$0.00	\$0.00
4" Pipe	8.00 in	1,320.89	\$30.20 / ft	\$39,890.58
4" Pipe	6.00 in	10,294.03	\$39.29 / ft	\$405,880.45
4" Pipe	4.00 in	2,291.17	\$10.24 / ft	\$23,413.52
		20,933.07		\$469,174.55
Submain (Farm Works, Inc. Core Tiles Farm) - Chief (60' x 60')				
Unknown Supply		7,547.01	\$0.00	\$0.00
4" Pipe	8.00 in	1,351.98	\$30.00 / ft	\$40,559.40
4" Pipe	6.00 in	10,294.03	\$39.00 / ft	\$401,605.08
4" Pipe	4.00 in	2,291.17	\$10.00 / ft	\$22,911.70
		20,933.07		\$465,076.18

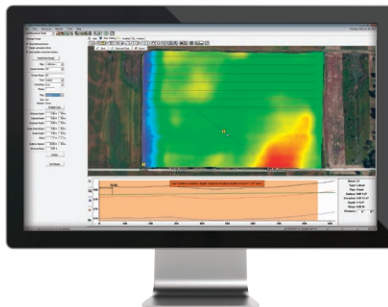
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3D MODELING

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

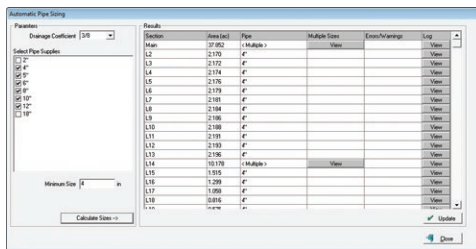


LEVEE CREATION

- ▶ Create levee paths from topography data based on contour interval and implement turn radius for proper placement of irrigation levees

DRAINAGE LINE CREATION

- ▶ Utilize the drawing tools to tie laterals to mains, create parallel lateral spacings, and clip drainage lines
- ▶ Layout and design drainage tile by size, pipe type and phase, then enter the minimum depth, maximum depth, and optimum grade for each
- ▶ 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



AUTOMATIC PIPE SIZING

- ▶ Eliminate guesswork by calculating pipe sizes automatically based on slope, terrain, spacing, area drained, appropriate 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 tile length, and price per foot

Contact your Trimble Ag Dealer today

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