



TRIMBLE WM-DRAIN FARM DRAINAGE SOLUTION

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NORTH & SOUTH AMERICA

Trimble Agriculture Division
 10355 Westmoor Drive, Suite #100
 Westminster, CO 80021
 USA
 800-865-7438 Phone (US Toll Free)
 +1-913-495-2700 Phone
 +1-913-495-2750 Fax

Trimble Navigation Limited

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

EUROPE

Trimble Germany GmbH
 Am Prime Parc 11
 65479 Raunheim
 GERMANY
 +49-6142-2100-226 Phone
 +49-6142-2100-140 Fax

ASIA-PACIFIC

Trimble Navigation Australia PTY Limited
 Level 1/120 Wickham Street
 Fortitude Valley, QLD 4006
 AUSTRALIA
 +61-7-3216-0044 Phone
 +61-7-3216-0088 Fax

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TRIMBLE WM-DRAIN FARM DRAINAGE SOLUTION

The Trimble® WM-Drain™ farm drainage solution is a concept to completion toolset that streamlines the survey, analysis, design, installation, and mapping steps of surface and subsurface drainage. WM-Drain ensures optimal 3D drain placement, which improves crop yields by controlling ponding, optimizing root depth, maximizing planting seasons, and minimizing nutrient loss.



Survey

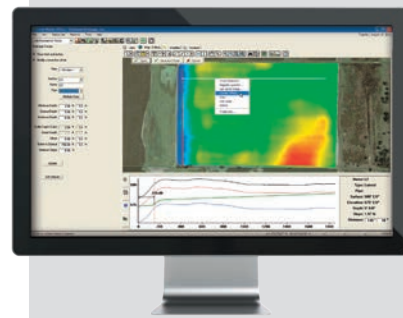
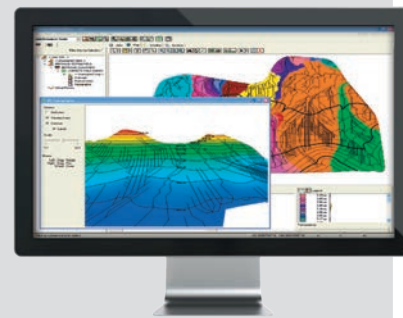
Collect 3D field data with ease by using the FmX® integrated display.

- Utilize the touchscreen simplicity of the FmX display to record the boundaries and interior data of the field
- Record section lines along the alignments where you wish to install drains, and complete the design and installation without having to leave the cab
- Use a Trimble Autopilot™, EZ-Pilot™ or EZ-Steer® steering system to guide your vehicle and ensure adequate field coverage

Analysis

Analyze the 3D field data using Farm Works™ Surface software to make better-informed drainage decisions.

- View data from any angle and exaggerate the vertical to visualize the shape and slopes of the field
- Determine the various watershed zones of the field to assist with main, submain, and lateral pipe placement
- Configure contours at any interval to display the topography and relative elevations
- Enable flow arrows and tributary lines to assist with tracing the natural surface water flows
- View the field analysis over the top of aerial images to review your data in another context



Design

Design and verify a complete 3D drainage system using Surface software, or design drainage lines on-the-go without having to leave your vehicle.

- Position the drain lines horizontally based on the results from the different analysis views
- Utilize the Farm Works drawing tools to tie laterals to mains, create parallel lateral spacings, and clip drainage lines
- Allow Autoslope to produce optimal depth designs resulting in a consistent water table, which minimizes nutrient loss
- Verify that the pipe network will successfully drain to the main outlet before beginning the installation
- Utilize the Autoslope functionality in the FmX display for an on-the-go solution

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Installation

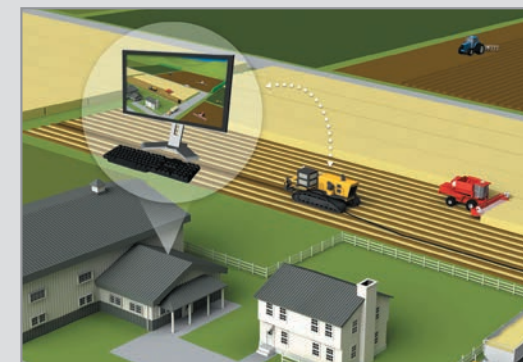
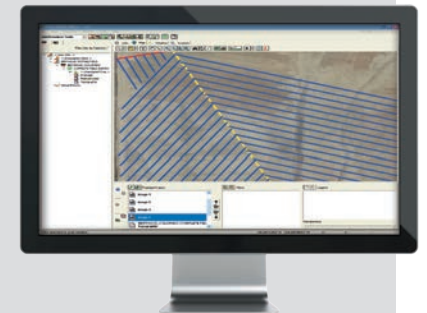
Take your designs back to the field and utilize the WM-Drain module on the FmX display and Trimble's 3D machine control technology for precise installation of your pipe or surface ditches.

- Use WM-Drain with any type of drainage plow—self-propelled, pull-type, chain or wheel trenchers, ditchers, scrapers, or any other water management implement
- Control the depth automatically, ensuring pipe and ditches are installed to the design
- For perfect pitch at the outlet, ensure the boot pitch is correct before starting the installation
- Control the boot pitch automatically for parallel link and double link plows, providing complete control of the machine and ensuring the best accuracy available
- Switch to Point and Slope mode using pitch control during RTK dropouts to ensure completion of drainage runs in adverse satellite conditions
- Utilize GNSS RTK combined with T3™ Enhanced Terrain Compensation Technology for roll-corrected 3D positioning
- Recalculate designs on-the-go when the plow hits unexpected underground obstacles
- Monitor your depth, location, and slope in real time during the installation process
- Map the as-applied drainage lines while installing to keep as a record for aiding with invoicing and locating installed pipes in the future
- Choose Point and Slope mode for a manual slope and depth drainage installation

Mapping

Map the true location of your installed drainage pipes or ditches and utilize the records for future maintenance or drainage expansion projects.

- Automatically log 3D drain maps synchronously while the drainage machine is being controlled by WM-Drain
- Transfer the mapped data using Connected Farm™ to Surface software, where it will be stored as an independent layer



Connected Farm

With the Connected Farm from Trimble, you can wirelessly share valuable time-saving data between your farm office, vehicles, and workers out in the field.

- Wirelessly transfer topographic data from the field to the office for 3D analysis and drainage design work, saving time and eliminating the need for USB stick data transfers
- Wirelessly transfer drainage designs from the office to the field for installation, saving time and maximizing machine operating hours
- Wirelessly transfer drainage maps from the field back to the office for safe record keeping