T3RRA

Rainfall Simulator

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Rainfall Simulator

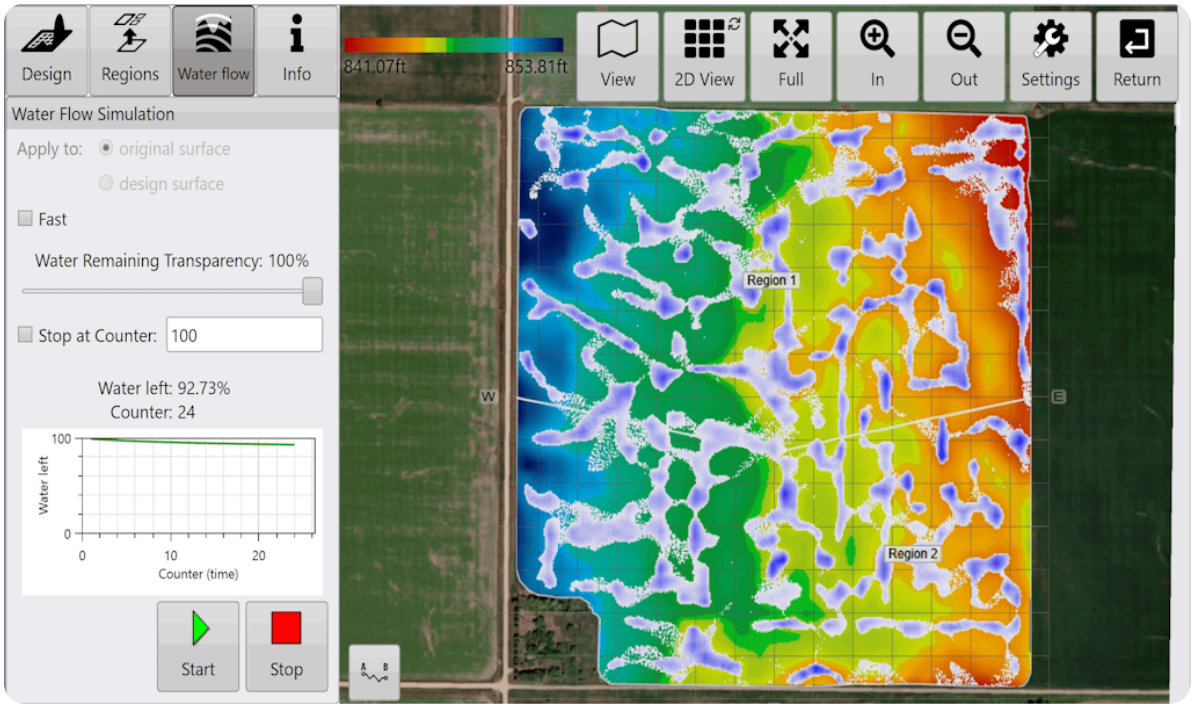


The T3RRA product suite includes a rainfall simulation tool for visual analysis of how a field surface affects water runoff and ponding.

Two purposes for rainfall simulation

First use the simulator after surveying the field and before placing any design on it.

1. **Verify the surveyed surface.** Someone familiar with the field can usually judge whether the simulated water flow matches its normal runoff pattern. A familiar pattern gives the operator confidence that the survey has produced an accurate field model. If the results are unexpected, critically revisit the survey and consider collecting more data.
2. **Compare the design with the original surface.** A design is expected to change the drainage pattern. Analyse the designed surface to see whether it will have the expected effect on drainage.



Interpreting timing comparisons

The rainfall simulator **cannot tell you how long a field will take to drain**. Soil type, soil moisture level and soil depth before reaching hardpan are among the many variables involved. Calculating drainage time is beyond the scope of this software.

To get an indication of how much faster one design may be than another, compare their **iteration counter** values at the same **drainage %**. The simulation's timing information is **qualitative, not quantitative**.

Comparing surfaces and views

Switch between the design and original surfaces to compare changes in water flow **only when the water simulation is stopped**.

Use **Stop at counter** to compare the water remaining on the design and original surfaces at the same specific counter value.

> ⓘ View the water simulation in **2D or 3D**, just as you normally view elevation and design surfaces.

Video tutorial

Watch the rainfall simulator tutorial at https://youtu.be/LJ5Vw9Q7tqA, or scan this barcode with your phone.