TRUTERRA

Truterra™ Insights Engine

Benchmarking Farmer Progress and Mapping Change Over Time

Designed for farmers by a farmer-owned cooperative, the Truterra™ Insights Engine by Land O'Lakes SUSTAIN is a first-of-its-kind, interactive on-farm stewardship digital platform that will help farmers advance their business and conservation goals in real time while offering companies expanded metrics that help them achieve marketplace sustainability goals.

A key offering of the Truterra Insights Engine is the Insights Score, which gives farmers critical information about their on-farm stewardship practices, highlighting areas where they are excelling while also highlighting opportunities to adjust management and adopt new practices. The Insights Score allows farmers to track progress over time and showcase it with their customers.

WHAT IS THE TRUTERRA INSIGHTS ENGINE INSIGHTS SCORE?

By analyzing a variety of on-farm practices, the Truterra Insights Engine generates a field-level Insights Score on a scale from 0 to 100. The score indicates a basic, moderate, high or advanced level of stewardship on a given field.

HOW IS THE INSIGHTS SCORE CALCULATED?

The Insights Score is calculated based on an algorithm evaluating field-level data. The Insights Score factors in each field's unique properties – such as varying soil types, topography and weather – as well as the crop production activities and conservation practices that are in use.

MODELING FOR THE FUTURE

Using the Truterra Insights Engine, farmers can test how adopting new or updating existing on-farm conservation practices can impact their Insights Score, as well as five key stewardship indicators.

Nitrogen Use Efficiency
Indicates estimated nitrogen use efficiency for producing the current grain crop.

Sheet & Rill Erosion
Indicates the estimated tons per acre of soil that erodes in the field each year due to water interacting with the top soil. The interaction could be from rain fall or water running across the land.

Wind Erosion
Indicates the estimated tons per acre of soil that erodes in the field each year due to wind blowing across the field.

Soil Quality Trend
Indicates the predicted trend in gains, losses, or maintenance of soil organic matter and soil carbon based on current field operations and crop management.

Net GHG Emissions
Indicates the estimated net greenhouse gas (GHG) emissions in pounds per acre per year, taking into account the total fuel usage from farm equipment operations, carbon dioxide aeration and respiration from the soil, and nitrous oxide emissions from commercial fertilizer.

Visit **www.TruterraInsights.com** for more information on how to access the tool.

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