

Koppert One expands with AI-like advisory tool for sustainable farming

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In a decisive step toward the digital transformation of sustainable agriculture, Koppert Biological Systems has unveiled Timing Expert, a cutting-edge decision-support feature embedded within the Koppert One platform, designed to guide growers toward optimal application timing for beneficial nematodes in outdoor crop systems.

At the intersection of biological crop protection and data-driven agronomy, Timing Expert represents a new frontier in precision farming — one where environmental intelligence and microbial science converge to enhance field-level outcomes.

The new tool leverages a sophisticated synthesis of Koppert's long-established biological expertise and real-time meteorological data, including temperature, humidity, solar radiation, rainfall, and wind conditions. By integrating geolocation services and forecast modeling, the system identifies precise application windows for foliar treatments involving entomopathogenic nematodes, widely recognized as powerful natural allies in pest control.

In practice, growers are presented with intuitive condition ratings ranging from "Poor" to "Excellent," enabling immediate, field-ready decisions that reduce uncertainty and improve treatment efficacy.

"With Timing Expert, we combine biological expertise with digital intelligence to transform complex data into practical, actionable advice in the field," said Cyrille Verdun. "It helps growers, consultants, and researchers identify the optimal moment for foliar nematode applications, improving consistency and performance across crops."

Beneficial nematodes — microscopic organisms deployed as natural pest controllers — are highly sensitive to environmental variables, making application timing a decisive factor in their effectiveness. By addressing this critical variable, Timing Expert aims to significantly enhance the reliability and success rate of biological crop protection strategies.

The launch underscores Koppert's broader commitment to democratizing agricultural innovation through accessible digital tools. Available free of charge via the Koppert One app, Timing Expert reflects a growing industry shift toward integrating biological inputs with intelligent decision-support systems that empower growers at every scale.

Currently focused on foliar applications, the platform is designed with future expansion in mind, including forthcoming updates that will extend its analytical capabilities to soil-based applications, further broadening its utility across diverse farming systems.

As global agriculture faces mounting pressure to increase productivity while reducing chemical dependency and environmental impact, tools like Timing Expert signal a profound evolution in how farming decisions are made — not by intuition alone, but through the seamless fusion of biology, data, and digital precision.

In this emerging paradigm, Koppert positions itself not merely as a provider of biological solutions, but as an architect of intelligent ecosystems — where every application is timed with scientific precision, and every decision is guided by the quiet intelligence of nature and technology working in harmony.