

BASF demonstrates pathways to lower emissions in agriculture referring to Global Carbon Field Trials

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In a recently published report, BASF has shared the first results from its multi-year Global Carbon Field Trials. The results demonstrate that a reduction of greenhouse gas (GHG) emissions in agriculture of up to 30 percent is possible compared to standard farming approaches – a target to which the company committed in 2020 to help farmers reduce their GHG emissions per ton of crop produced.

The emissions reduction requires tailored climate smart approaches and varies by specific crop and region. The trials were conducted across various geographies and key crops (wheat, corn, canola/oilseed rape, rice and soy), with the results from 2021 to 2023 revealing that there is no one-size-fits-all solution to mitigate agriculture's contribution to climate change. Instead, reducing GHG emissions requires a tailored combination of interventions, products, and technologies.

The report highlights the success of approaches to lower GHG emissions, such as optimized fertilizer use with digital decision support systems and nitrogen stabilizers, and the use of high-performing seeds, while also considering crop yields.

“Climate change is already happening. Farming methods need to be adapted to meaningfully reduce emissions without compromising yield. This is a challenge, but we have the right solutions to support farmers and I am convinced that if you love agriculture, you must be committed to sustainability as we are,” said Marko Grozdanovic, Senior Vice President Global Marketing at BASF Agricultural Solutions.

“The insights we gain from our field trials support our Global Carbon Farming Program, where our recommendations empower farmers to become pioneers for positive change in climate and nature.”

The trials also underscore the challenges farmers face to reduce emissions, particularly adverse weather conditions or emissions-reduction practices that negatively affect yield. This is why BASF will continue to field-test farming strategies through its Global Carbon Farming Trials together with partners to find practical climate-smart solutions supported by science and data for farmers around the globe.