

On-Farm Experimentation Community Info No. 46

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On-Farm Experimentation Community ([OFE-C](#))

International Society of Precision Agriculture ([ISPA](#))

Co-Editor April 2026

Thanks to my co-editor of the month, Mr Bruce Gélinas MSc, Agronomist, Regional Advisor in Field Crops, MAPAQ, Trois-Rivières, Québec, Canada.

Evaluating the Contribution of Cover Crops and Manure to Nitrogen Nutrition in Corn and Wheat

Despite available decision-support tools (DST), farmers still want to know how much nitrogen cover crops and manure actually supply under their own fields' conditions. In this CEROM-led project, farmers across Quebec are co-designing and running strip trials in their own fields, testing five N rates after cover crops or manure. Results are used to directly evaluate and challenge DST against field-level responses. Early findings show a measurable N contribution from cover crops, informing real fertilizer decisions. To learn more, read [here](#).

Data-Driven Sustainability: McGill University Launches Quebec's First OFPE Network

McGill University is launching Quebec's first On-Farm Precision Experimentation (OFPE) network. Over three years, 80 farms will lead their own trials to optimize nutrient management, soil cover, pesticide use, and biodiversity, aligned with the goals of the *Plan d'agriculture durable*. By merging academic rigor with real-world production, the network aims to scale precision agriculture across Eastern Canada through high-resolution, farm-specific data. [To learn more.](#)

532 Trials and Counting: From the Field to the Zone

The [DIFM project](#) automates site-specific data generation to help farmers optimize decisions. Since 2022, over 40 trials have been conducted in Quebec across inputs such as nitrogen, seeding rate, biostimulants, fungicides, and cover crops, bringing the global total to over 532. Building on this, CEROM is launching a project to test whether management zones derived from checkerboard trials remain reliable predictors of input response across seasons, an approach supported [Adhikari et al. 2023](#) on multi-year yield stability and gross margin mapping. [Click here to learn more.](#)

A New Opportunity for Farmer-Centric OFE Publications

Following the special section "*Advances in On-Farm Agronomic Research and Participatory Learning*" in *Agronomy Journal*, led by Peter Kyveryga, this community needed a new opportunity to publish farmer-centric OFE science. The co-chairs of this community worked with *Frontiers in Agronomy* to create one. The call for papers for the Research Topic "**Farmer-Centric On-Farm Experimentation Enhanced by Digital Agronomy**" is now open, with a **submission deadline of October 10, 2026**. It welcomes contributions spanning agronomy, data science, and social science, from trial design and statistical methods to collaboration models and farmer-researcher partnerships. We will be featuring

submitted and published papers here regularly as they come in. [Learn more and submit your work.](#)

This letter was prepared by Louis Longchamps, co-chair of the ISPA OFE Community

Should you have something to share with the Community or the Community leaders, let us know [here](#).