

Interseeding Extends the Cover Crop Growing Window

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Cover crops interseeded into corn. Photo by Lisa Tiemann.

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Cover crops are typically planted after harvest of the main crop to promote soil health. However, in certain growing regions, the short time between harvest and frost makes it difficult to plant cover crops. To overcome these solcalled "narrow coverlcropping windows," growers are experimenting with interseeding, in which cover crops are planted between rows of the main crop during the summer. Still, there is concern that the cover crops might take away nutrients from the main crop.

To address these questions, researchers investigated how interseeding several different cover crops alone or combined into corn affected nitrogen cycling in the soil. They tested if cover crops competed with corn for nutrients and found that interseeding did not impact corn growth or reduce soil nitrogen. Through repeated sampling over 12 sitelyears, they found that the effects of soil carbon on nitrogen cycling were stronger than the effect of cover crops.

This study supports interseeding as a viable strategy for cover cropping though the proper timing of cover crop seeding in relation to precipitation is essential, and it may take a while before soil health benefits are consistently observed.

Adapted from

Curtright, A. J., Renner, K. A., & Tiemann, L. K. (2024). Availability of dissolved organic carbon drives differences in microbial nitrogenEycling processes between two sites with cover crops interseeded into corn. *Soil Science Society of America Journal*, 88, 56–70. https://doi.org/10.1002/saj2.20604

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