PROJECT

US SecondCrop™ Microbial Carbon Removal

Soil Amendment

United States of America

Removal

Gold Standard

Loam Bio delivers a new class of durable carbon removal by enhancing how plants and microbes naturally store carbon. Using a patented microbial seed coating, we activate mycosequestration, a fungi-driven process that moves atmospheric carbon deep into soils and locks it into mineral-associated organic carbon, a form proven to persist for centuries.

Applied at just grams per acre, our fungi work with corn and soybean roots to stabilize carbon underground without changing farm operations, land use, or yields. The result is a scalable, low-risk removal pathway embedded in existing agricultural supply chains.

Every tonne is quantified using direct soil measurement and independently verified under Gold Standard requirements, with durability prioritized over short-lived surface carbon.
For buyers seeking high-integrity, nature-based carbon removals that combine scientific rigor, permanence, and real-world scalability, Loam Bio offers a practical solution being deployed at scale today.

Available Inventory		2 vintages
2026	Forward	**Contact for price**
2027	Forward	**Contact for price**

The vintage of a credit represents the year within which the credit was produced. When there are repeating vintages on a project, this is most likely due to multiple issuances within the same year. These are sometimes priced differently because of different delivery dates.

For more questions, please reach out to:
josh.s@loambio.com

Technology

Project Type	Mechanism	Permanence
Soil Amendment	Removal	100-999 years

Registry

Registry	Project ID
Gold Standard	GS23491

U.N. Sustainable Development Goals

Overview of UN SDGs

Location

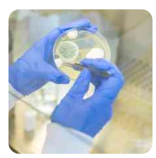
Minneapolis, United States of America

North America

Project Media












Full Description

A Scalable and Durable Solution for Soils

Restoring the Natural Relationship

The soil beneath our feet is one of the world's largest potential carbon sinks, yet today it often releases carbon faster than it can store it. **Loam Bio's SecondCrop™** project offers a practical solution to this problem by deploying a patented fungal technology across **Illinois, Iowa, Indiana, Minnesota, Nebraska, Ohio, South Dakota, and Wisconsin**. Through a biological process known as **mycosequestration**, beneficial root-associated fungi work in partnership with crops to move atmospheric CO_2 into stable, underground carbon pools. By restoring the natural relationship between plants and soil fungi, everyday corn and soybean systems become high-efficiency carbon removal platforms.

This approach works within existing agricultural infrastructure. Farmers continue operating as they always have, using the same equipment, crop rotations, and land base. No land use change is required. Instead, carbon is removed by strengthening soil biology at scale across US row-crop systems.

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Full Description (continued)

The Power of Two Tablespoons

The innovation lies in its simplicity and efficiency. Farmers apply **CarbonBuilder™**, a patented fungal seed coating, at just **two tablespoons per acre**. Once in the soil, these beneficial fungi colonize the rhizosphere and partner with plant roots. As crops photosynthesize and draw down atmospheric carbon, the fungi intercept and stabilize that carbon underground, binding it to soil minerals where it is physically protected.

This low-input, biology-first approach enables scalable deployment without new machinery, operational disruption, or complex infrastructure. It embeds durable carbon removal directly into one of the world's largest existing agricultural systems.

Durability by Design

The defining feature of this project is the stability of the carbon it creates. Many soil carbon approaches primarily increase particulate organic carbon, which can be vulnerable to reversal. Loam Bio's mycosequestration pathway preferentially builds **Mineral-Associated Organic Carbon (MAOC)**, the most stable soil carbon pool.

MAOC is formed when microbial byproducts bind to soil minerals, creating a structurally protected form of carbon that scientific literature shows can **persist for centuries**. By targeting this stable pool rather than short-lived surface carbon, the project is designed from the outset for permanence.

Vetted, Proven, and Ready to Scale

For a corporate buyer, the primary concern is often the risk of a novel technology. Loam Bio's approach is backed by years of rigorous testing and laboratory validation. This is a field-proven reality with substantial backing:

- **Scientific Rigor**: We use high-precision tracing technology to follow carbon's journey from the atmosphere directly into stable soil pools.
- **Gold Standard Certification**: Every tonne is quantified using a direct "measure and re-measure" approach, with all results verified by independent third-party auditors.
- **Risk Mitigation**: The project maintains a **20% buffer pool** of credits to ensure the long-term integrity and insurance of your investment.

Impact for Farming Communities

This technology integrates seamlessly into existing corn and soybean production systems. Farmers do not change land use or alter core agronomic practices. Instead, they adopt a microbial input that enhances soil biological function while participating in carbon markets.

70% of the carbon revenue is returned directly to participating farm families, creating a meaningful new income stream while strengthening soil health. Improvements in soil aggregation, water retention, and biological diversity contribute to long-term farm resilience.

For buyers, this means climate impact that is measurable and durable, alongside tangible economic and ecological benefits across rural communities in the US Midwest.