



Soil Food Web

Top News

P.1 Soil Biology, The Food Web

P.2 Farm Safety -

Company Update



Plant Material

As leaves and roots decompose, they add carbon and nutrients to the soil. Dead plant material

feeds microbes, fungi, and worms. Residues protect the soil surface from erosion, drying, and temperature extremes.

Soil microbes don't work alone—they're part of a living network. Together, they keep soil balanced, fertile, and full of life.

Earthworms

Earthworms burrow and create channels that improve aeration and water infiltration. They eat organic matter and excrete nutrient-rich castings, which are like natural fertilizer. They blend organic material with minerals, helping nutrients spread evenly.

Fungi

Many fungi form symbiotic relationships with plant roots, expanding the plant's ability to absorb water and nutrients (especially phosphorus). Fungal hyphae

(thread-like filaments) bind soil particles together, improving stability. They break down tough organic materials like lignin and cellulose in leaves and wood, recycling nutrients back into the soil.

Microbes

Microbes decompose organic matter, releasing nutrients (nitrogen, phosphorus, sulfur) in plant-available forms. Certain bacteria fix nitrogen from the air, while others suppress harmful pathogens. Microbes play a role in soil carbon storage, helping stabilize organic matter.

Staying Safe in the Field

October is National Farm Safety & Health Week, and a time of year when many farms are at their busiest, making safety more important than ever. According to the National Institute for Occupational Safety and Health (NIOSH), agriculture remains one of the most hazardous industries in the U.S. Common risks include equipment accidents, heat stress, and exposure to dust or chemicals. Promoting farm safety protects not only workers, but also ensures a healthier, more sustainable agricultural community.



Simple tips for farmers and farm workers:

- Always wear proper protective gear when handling chemicals or machinery.
- Keep tractor roll-over protection systems (ROPS) in good condition.
- Take regular hydration and rest breaks, especially during long harvest days.
- Make sure equipment is properly maintained and inspected before use.

Editor's Note

Dear Subscriber,

Welcome to our October edition of our newsletter "PureGrowth", where we get to share the latest milestones and momentum at Purebase.

At Purebase, we believe that building stronger farms starts with both healthy soils and safe prac-

tices in the field. That's why we share insights on soil biology and the Soil Food Web — the living network of microbes, fungi, and organisms that create balance and fertility in the ground beneath us. By understanding and supporting this biology, we help growers build more resilient, productive farms for generations to come.

This month, we're also pleased to highlight our

latest company update, recently released in a press statement. In it, we share how Purebase has been expanding the reach of our agricultural products and collaborating with investment banking firms nationwide. These efforts are part of our ongoing strategy to grow and deliver long-term value.

And finally, with fall harvest season underway, we've included timely re-

sources on farm safety. Agriculture is a rewarding but often high-risk profession, and by encouraging safe practices alongside good soil stewardship, we can ensure healthier outcomes for both people and the land. We thank you for being part of the Purebase community and look forward to continuing this journey together.

Please subscribe to our news at purebase.com

Have you seen our latest company update?

We recently released a new press update highlighting what Purebase has been working on over the past several months.

From expanding our agricultural product reach with distributors across the Northwest, to engaging with investment banking firms nationwide, our team has been focused on building momentum for the future.

This release also outlines how we are completing important due diligence items as we work toward uplisting to a premier exchange — a major step in positioning Purebase for long-term growth.

Did you catch the full release yet? Read the full press release at purebase.com/press-release

We'd love to hear your thoughts as we continue putting Purebase in front of new partners, distributors, and investors.

