

How are Wind River Microbes different from all other microbe formulas on the market?

1. **Formulation.** Our microbes are NOT derived from lactating dairy cow manure. Using manure allows too much variability in species. Wind River Microbes' formulas are assembled in a kitchen, much like a cake recipe, using specific microorganisms for specific tasks within the microbiome.
2. **Indigenous microbes.** In our formulations, we have added specific species of bacteria that are used for Horizontal Gene Transfer (HGT). This process enables our microbes to adapt to soils worldwide, and work in conjunction with indigenous microbes to effectively balance and diversify the indigenous microbiome.
3. **Stability.** When developing formulas using cow manure, it generally takes 6-9 months to cure a stable formula. In particular, the *E.Coli* and *Salmonella* must be allowed to cure out, so an imbalanced solution is not being applied. Because of our "manufacturing" process, we have a completely stable formula in 4-5 days.
4. **Temperature.** Wind River's formulas do not need refrigeration or storage at a specific temperature. Our microbes have survived storage below freezing temperatures and up to approximately 130 degrees Fahrenheit without a loss of viability. As with any microbial inoculants, they require storage away from direct sunlight.
5. **Shelf-life.** Most microbial inoculants can last for 3-12 months if stored properly. However, Wind River Microbes is proud to announce that our solutions have remained effective for over 12 years. Even after all this time, the viability of our solutions has only decreased by 0.024 percent. We have tested the same solutions annually since 2012 to ensure their function and viability, and they have not degraded when stored out of direct sunlight, between 50-85°F.
6. **Feed.** Many other formulas require maintenance such as feeding, to keep the species alive - ours do not. Once our formulation is complete, we induce dormancy so the microbes "wake up" when they encounter a food source, which is derived within soil structures, or digestive systems.
7. **Tank-Mixing.** Many competitor formulas should not be tank-mixed with fertilizers or chemicals. Ours can be safely tank-mixed while maintaining efficacy, as long as the mix is sprayed promptly and not allowed to sit in solution for more than 72 hours. Fungicides are the only chemical that should not be used with our formulas. *

*Please visit our website to access the tank mixing chart for detailed information.



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The Wind River Microbes logo, featuring a green leaf icon above the text "WIND RIVER" in large, bold, black letters, with "MICROBES" in smaller, black letters below it.

WIND RIVER MICROBES





Healthy Soil You Can See:

These images exemplify the transformative influence of Wind River Microbes' products on distinct farms in different states. The evident enhancements in soil health and plant growth underscore the wide-ranging advantages of our microbial solutions across diverse agricultural settings. Microbes facilitate a natural "gluing" process that attaches soil particles to plant roots, bolstering soil stability and deterring erosion. This mutual relationship heightens nutrient absorption efficiency and cultivates a varied soil microbiome, ultimately nurturing healthier plant development and promoting enduring agricultural practices.



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Did you know that the gut and soil operate similarly, relying on microbial communities for essential functions? Just as microbes aid digestion and support immune function in the gut, they also decompose organic matter, release nutrients, and suppress pathogens in soil ecosystems. These parallels underscore the importance of promoting beneficial microbial diversity for the health and productivity of both the gut and soils.

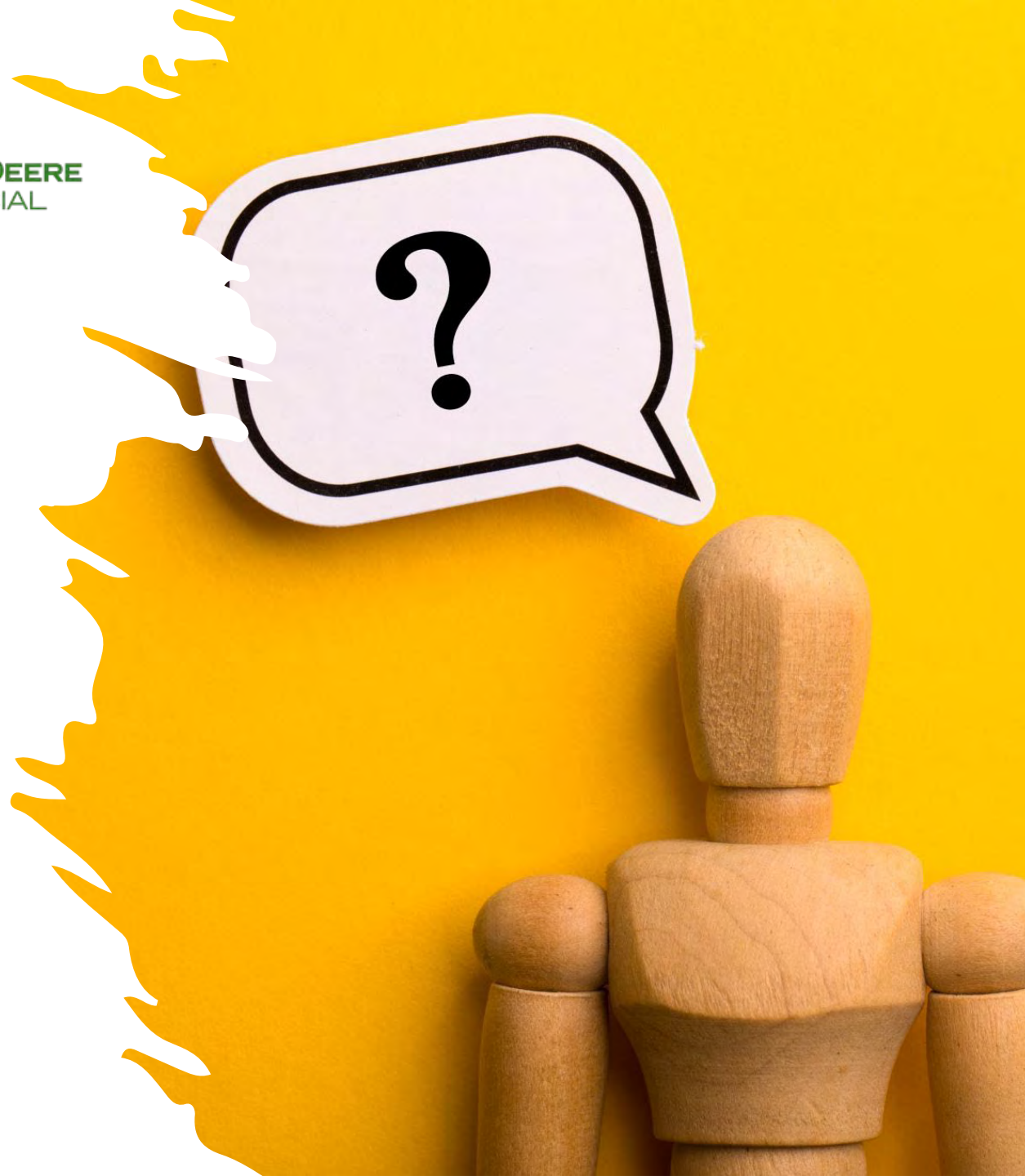
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Did you know that microbes play a crucial role in root growth and development by forming symbiotic relationships with plants? Certain types of microbes, like mycorrhizal fungi, extend their reach into the soil, enhancing the surface area of the roots, and increasing the uptake of water and nutrients. Microbes also produce hormones and enzymes that promote healthy root growth and branching, resulting in more resilient and productive plants. Microbes promote root growth and contribute to overall plant health, resilience, and productivity.

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Did you know that microbes play a crucial role in feeding plants and enhancing their growth? These tiny organisms form a symbiotic relationship with plant roots, creating a powerful partnership known as mycorrhizae. Through this connection, microbes extend the plant's reach into the soil, accessing nutrients and water that might otherwise be out of reach. In return, plants provide the microbes with sugars created through photosynthesis. This exchange not only aids the plant's nutrition but also boosts its resilience against environmental stressors. By fostering this intricate microbial-plant relationship, Wind River Microbes ensures that crops receive the nourishment they need for optimal growth and productivity.

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Reduced Chemical Dependency

Wind River Microbes' approach reduces the need for synthetic fertilizers and harmful chemicals. Our solutions promote environmentally friendly farming practices by enhancing nutrient availability and nutrient-use efficiency.

For more information on reductions, visit us at
www.windrivermicrobes.com



Benefits



Input Reduction

2, 4-d: 50-66% reduction rate

RoundUp: 50% reduction rate

Dicamba: 50-66% reduction rate

For more information on reductions, visit us at
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Benefits



Cost Savings

Farmers and ranchers experience cost savings while maintaining or increasing production through improved nutrient utilization and reduced inputs. This enhances the economic viability of farming and ranching operations.

For more information on reductions, visit us at www.windrivermicrobes.com





Sustainability

Implementing our microbial solutions supports sustainable agriculture by reducing the environmental impact of farming. By minimizing chemical runoff and enhancing soil vitality, farmers contribute to long-term ecological balance.

For more information on reductions, visit us at
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Benefits



Increased Stress Tolerance

Wind River Microbes' solutions help crops become more resilient to weather extremes and climate variability. Plants are better equipped to withstand drought, excessive rain, and temperature fluctuations. Our microbial solutions improve water utilization efficiency, allowing plants to flourish in arid and water-limited environments.

For more information on reductions, visit us at
www.windrivermicrobes.com





Maximize Soil Health

Wind River Microbes' products enrich the soil with beneficial microorganisms, promoting nutrient availability and fostering a thriving microbial ecosystem. This leads to improved soil structure, water retention, and overall soil health.

For more information on reductions, visit us at www.windrivermicrobes.com



No
SoilCare





Improved Productivity

Our microbial solutions facilitate better nutrient uptake and root development, resulting in increased crop yields. The enhanced plant health improves resistance against stressors, pests, and diseases.

For more information on reductions, visit us at www.windrivermicrobes.com



Benefits



Enhanced Plant Quality

Our microbial solutions lead to healthier and more robust plants, producing better-quality produce. This can translate into higher market value and consumer preference.

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Cowpea plants.
No Microbes left.
Year one Microbes Middle.
Year two Microbes Right.

Benefits



Sustainability

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Benefits



Maximize Nutrient Utilization

The unique microbial communities in our products facilitate the efficient uptake of essential nutrients, ensuring that plants have access to the building blocks they need for accelerated growth.

For more information on reductions, visit us at www.windrivermicrobes.com



soilcare not sprayed here.



Oats 2023



Sustainable Soil Fertility

Wind River Microbes' products contribute to lasting soil improvement as they continue to foster beneficial microbial populations over time, promoting sustainable farming practices for future generations.

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Reduce Salt Deposits

Our microorganisms play a vital role in reducing the negative impact of soil salinity, helping plants adapt to saline soils and maintain optimal growth.

For more information on reductions, visit us at www.windrivermicrobes.com





Environmentally Friendly

By promoting natural soil processes and reducing chemical usage, Wind River Microbes contributes to healthier ecosystems, improved water quality, and a reduced carbon footprint.

For more information on reductions, visit us at
www.windrivermicrobes.com





Profitability

Higher yields, reduced input costs, and improved product quality contribute to increased farm profitability and overall economic success.

For more information on reductions, visit us at www.windrivermicrobes.com





Control *(untreated)*



BioSoil *(treated)*



The efficacy of Wind River Microbes is demonstrated through this rigorous, double-blind study, involving 800 trees. The study addressed declining tree health in a municipality facing substantial tree loss. The incorporation of **bioSoil** resulted in a remarkable increase in root growth on the right, showcasing the positive impact of our product. Furthermore, reports from tree installers from another city in Texas indicate that tree loss ceased after incorporating **bioSoil**, emphasizing its role in fostering healthier trees and contributing to the preservation of urban greenery.



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Full rate
Dicamba

50% reduction
Dicamba with
Microbes.

This is a field that the farmer sprayed half of the field with full rate Dicamba, and the other half with 50% less Dicamba, tank-mixed with SoilCare.





Broughton, IL



Enhancing Nutrient Cycling through Microbes:

Wind River Microbes pioneers a transformative strategy to amplify nutrient cycling within ecosystems. Our microbial solutions work in synergy with plants, accelerating the breakdown of organic matter and releasing essential nutrients back into the soil. Additionally, our specialized nitrogen-fixing microbes are crucial in harnessing atmospheric nitrogen and converting it into plant-available forms, enriching the soil with this vital nutrient. These microbial collaborations optimize nutrient utilization, minimize nutrient runoff, and foster sustainable agricultural practices, ultimately improving soil fertility, plant growth, and long-term ecological balance.



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No Microbes

2021 Soybeans

31.0 Acres	45.8 Average Yield (bu/ac)	10.2% Moisture	
Soil Types	Hybrids	Elevation	
Soil Type	Acres	Avg Yield	Moisture
Hokans-Svea complex, 1 to 4 percent slopes	3.6	43.9	9.9
Tara silt loam, 1 to 3 percent slopes	12.0	44.6	10.4
Buse-Doland complex, 6 to 12 percent slopes	0.1	35.7	10.0
Rondell silty clay loam, 1 to 3 percent slopes	5.1	48.7	10.5

Microbes

2021 Soybeans

35.6 Acres	52.6 Average Yield (bu/ac)	10.7% Moisture	
Soil Types	Hybrids	Elevation	
Soil Type	Acres	Avg Yield	Moisture
Rondell silty clay loam, 1 to 3 percent slopes	2.1	49.7	10.4
Tara silt loam, 1 to 3 percent slopes	4.0	50.9	10.4
Bearden-Cuam, depressional, complex, 0 to 2 percent slopes	28.3	52.9	10.7
Hokans-Svea complex, 1 to 4 percent slopes	1.1	55.6	10.8



In Minnesota, an agricultural producer has reaped substantial benefits from their soybean cultivation, experiencing a remarkable upswing in profits to the tune of \$81.60 per acre. Over the course of three years, a gradual transition occurred in their product utilization, culminating in a consumption rate of merely 1 quart per acre on an annual basis, entailing an expenditure of \$13.75 per acre.

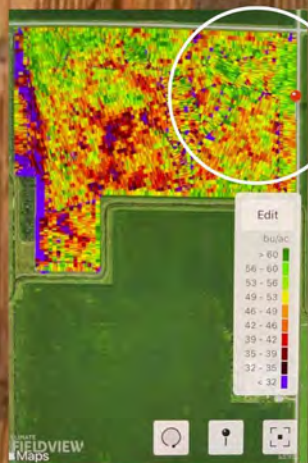
Bushels Per Acre:

**6.8 Bushels Per Acre Increase with Microbes @ \$12/Bushel
= \$81.60 More Per Acre!**

Cost of Microbes:

\$55/Gallon

Application Rate of 1 Quart Per Acre = \$13.75 Acre



**Area of Field Where
Wind River Microbes
Were Applied!**



This strategic alteration in their product employment had a transformative impact on their agricultural enterprise. The result was a significant economic advantage, with their net earnings surpassing the financial performance observed in the control scenario by an impressive \$67.85 per acre. This is a compelling testament to the potential of carefully calibrated adjustments in agricultural practices to yield remarkable returns.

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30 bushel to the acre increase in year one

Engaging in a distinctive venture, this multi-generational farm embarked on an experiment, treating alternating 60-foot sections of their field with Wind River Microbes. This photo captures the perspective along that line. Utilizing advanced equipment, they meticulously tracked production within each strip. During the initial year, the treated sections yielded a remarkable increase of 30 bushels per acre, surpassing the untreated areas. Continuing into the third year of product utilization, they effectively minimized the application amount while achieving a significant augmentation of 70 bushels per acre above their average before incorporating Wind River Microbes.

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The farmer shared this image with us.



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Pictures from Northern New Mexico, elevation 8,650'. Left picture shows SoilCare applied in late June, Right picture has no SoilCare. Both are on the same property and watered up until 10/15, and there has been zero rain since. SoilCare helped roots grow deep and strong!



At Northern Nurseries Inc, we have been closely monitoring Maiden Grass. The first photo on the left shows the plant's initial state, while the one in the middle was taken a weeks later. The difference in growth rate is apparent, but what's even more impressive is the root development that's happening beneath the soil. The plant with the red tag on the left in each photo was treated with SoilCare and has been thriving. We are excited to see how it continues to grow and flourish in the coming weeks.

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WIND RIVER MICROBES



I wanted to share some exciting results from our recent experiment with squash plants. We started these plants from seeds in our greenhouse, ensuring they all had the same starting point. We provided them with equal amounts of water throughout their growth.

What's truly remarkable is the difference we observed when we treated one side of the plants with Wind River microbial solutions. As you can see in the photos, the plants that received the microbial treatment exhibited significantly better growth. Their foliage is healthier, they're more robust, and this is leading to a notable increase in production.

This is a compelling example of how applying microbial solutions can make a substantial difference in plant health and crop yield. We're thrilled with the results so far and are eager to continue monitoring their progress.



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