MycoGold BIOLOGICALS

Soil Primer & Crop Residue Manager

"Turn Stubble Into Soil Power"

Why This Matters

Every ton of grain leaves nearly a ton of stalks, cobs, leaves, and husks behind. That stover is packed with nutrients but often wasted or burned. Our microbial solution recycles it into fertility, organic matter, and long-lasting soil health. Perfect for after Fall harvest or Early Spring applications.

How It Works

- **Breaks Down Tough Residue**

  Microbial enzymes digest cellulose, hemicellulose, and lignin → converting hard stalks into sugars and humic substances.

- **Unlocks Nutrients From Stubble**

  Instead of burning away fertility, microbes recycle it for the next crop.

Nutrient Value of 5 Tons Corn Residue per Acre:

Nutrient	Pounds per Acre	Fertilizer Equivalent
Nitrogen (N)	~75 lbs	~160 lbs Urea
Phosphate (P_2O_5)	~24 lbs	~52 lbs DAP
Potash (K_2O)	~90 lbs	~150 lbs MOP

The follow Corn table represents per acre value based on a 200 bushel yield per acre, resulting in 5 tons of corn residue. Using a conservative product regeneration equivalent minimum of 70% Urea, DAP, and MOP. Quickly, 30 – 45 days for regeneration vs. leaving residue untreated (Most Nutrient Value left in the field is released into the atmosphere, 30% maximum retained over longer period)

Corn	5 Tons Treated	5 Tons Untreated
Nitrogen	$44.80	$19.20
P_2O_5	$16.38	$7.02
K_2O	$46.98	$20.02
Sulfur	$5	$1.50
Total Value	**$113.16**	**$47.74**
Product Cost + $7 Application	$25	$0
Net Return	**$88.16**	**$47.74**

The following Bean table represents per acre value based on a 60 bushel yield, resulting in 2 tons of residue remaining. Soybean residue has a higher value Nitrogen per ton than corn due to more nitrogen and phosphorus with less residue tonnage.

Beans	2 Tons Treated	2 Tons Untreated
Nitrogen	$54.00	$21.06
P_2O_5	$14.00	$5.46
K_2O	$24.00	$9.36
Sulfur	$0.40	$0.16
Total Value	**$92.40**	**$36.04**
Product Cost + $7 Application	$25	$0.0
Net Return	**$67.40**	**$36.04**

- **Builds Soil Carbon & Structure**
  Fungal hyphae + glomalin proteins act as natural "glues," improving porosity, rooting, and water storage.
  Every 1% organic matter increase = 20,000–25,000 gallons more water per acre.

- **Boosts Soil Biology**
  Nitrogen fixers, P & K solubilizers, and biocontrol microbes all work together to cut disease risk, feed crops, and stimulate native soil life.

The Microbial Team and What they Do

- **Degraders:** Cellulomonas flavigena, Phanerochaete chrysosporium, Trichoderma harzianum
- **Fertility Builders:** Azospirillum brasilense, Azotobacter spp., Bacillus megaterium, Pseudomonas fluorescens
- **Biocontrol Protectors:** Bacillus amyloliquefaciens, Streptomyces macrosporeus, Rhodopseudomonas palustris
- **Soil Health & Fermentation:** Saccharomyces cerevisiae, Bacillus subtilis, Pseudomonas putida

Key Farmer Benefits

✓ Faster stubble breakdown — no waiting, no burning
✓ Recycles stubble nutrients — saves on fertilizer costs
✓ Improves soil tilth, rooting, and water-holding
✓ Builds long-term organic carbon for resilience
✓ Suppresses soil pathogens naturally
✓ 100% natural — no chemical NPK (dextrose carrier only)

More Residue = More Resources

Instead of burning nutrients into the air, keep them in your soil where they grow next season's yield.

Turn yesterday's stalks into tomorrow's harvest.