

Soybeans sown and liquid inoculated with CurseBuster

Certainly the buzz word today in farming is “Soil Health”. Most of the time how to obtain it is confined to no-till covercropping practices. I want to introduce you to a farm that has built more soil health metrics than any farm I have been on in over 50 years that has not grown a covercrop in three generations and never returns crop residues to the soil except in the dairy manure they generate, and



does a lot of tillage.

These farmers have been performing strictly true vertical tillage since 1984 with a corn for silage and alfalfa/grass rotation. They do almost everything wrong to build soil health according to government agents and their accomplices.

Getting to the core issues ... Soil Health starts with managing water and air resources. Soil is a living

“breathing” organism. Poor water infiltration AND percolation are essential if breathing is to happen properly, which means on a regular basis. Water resources aren’t just limited to downward storage either. Water needs to be able to return to the surface of the field to keep microbes and plants supplied with carbon dioxide. Yes, supplied by microbes who generate it so the plant can make sugars and other things to feed the microbial populations.

The next factor in creating healthy soil is creating and maintaining uniform soil density. This is critical because normal root system development requires it. “Normal” means the shape or architecture should be text book. When did you last see that on anything you grow!

The architecture is critical because the soil microbial world lives in community with the root system. The soil microbes increasing in density and diversity are the source of advances in every metric of soil health.

The root system development of all plants is regulated by several different factors such as soil density (compaction issues), bio-chemical products impacting plant hormones (products of anaerobic or waterlogged soils) and the aerobic decomposition of root systems leading to the production of growth stimulating phyto-chemicals.

CurseBuster tillage achieves these essentials and more. For example, the eco-system of soil needs to encourage the re-



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habitation of beneficial foraging insects and pollinators. Many of these are natural predators of insect pests. These friends will not move into the field that has buried the crop residue (no food or shelter present) or has a flooding problem that drowns the youngsters.

You can create this soil ecosystem without compromise using the CurseBuster. It will leave root systems intact to be decomposed where they grew because the roots were inhabited by the microbes and fungi that will do the job very well. The physical impact of the tillage operation will not rearrange the locations of the soil bacterial and fungal populations. No relocation orders for them to die by. You want to see fungi increase in your soil, don’t make them move. If you want good fungi then make sure they can breathe. The pathogens prefer waterlogged soils.

CursesBuster is easily adjustable to help control winter annuals,

weed, relieve compaction and level fields that are already planted, thereby eliminating burn-down chemicals and the issues they can create for the young crop. The technology is at home in row crop farming and pasture and forage production. Equipped with a seeder it can apply and effectively germinate seeds of about any type. The machine is optionally equipped with a rear hitch for pulling other implements.

Be sure to visit our website U-Tube video collection for more helpful ideas on how to improve your profit margins and soil health at the same time through tillage. Most of you instinctively know you should be tilling! God will bless your obedience.

Learn more

You can learn more about these essentials by visiting us at www.soilcurebuster.com. sustainabilityprograms.deere.com

CurseBuster® Tillage Proven to Advance Soil Health



Genesis 8:21 KJV
“I will never again curse the ground on account of man, for the intent of man’s heart is evil from his youth ...”

Genesis 2:5 KJV
“.. for the Lord God had not caused it to rain on the Earth, and there was no man to till the ground.”

CurseBuster® Applications

Tillage-Seedbed Preparation/Manure Application

How many field operations do you want to combine into one pass? Dan runs CurseBuster to weed, mulch the surface, fracture soil up to 11 inches deep for large root system development, apply seed and “incorporate” dairy manure (not bury it). Optional rear hitch pulls the grain drill or corn planter when he wants. You can do this while building the fungal population in your soils.

Weed Control/Cultivation/Crimping

This tool is the fit for rolled down cover cropping that produces crop root systems that are unmatched. Plant green, then till to 9 inches and improve emergence, never move a seed. You want to try legume living mulch corn, this is the only way to succeed. Watch Active Carbon levels soar because the soil can breathe deeply and plants can build extensive root masses. The way in which the roller speed is controlled by the Eagle Tine design, wrapping is never a problem even in vines. The adjustability of the rotary harrow system permits removal of small weeds and non disturbance of the cover crop root system thereby preserving the allelopathic and/ or synergistic influences of cover and companion crops.

Soil Air & Water Management-Classic Aeration

Soil Health advancement happens fastest with perennial crops in the rotation. These crops need to regrow roots every year to stay vigorously productive above and below ground. Properly timed “cultivation” that relieves compaction and the macro pore clogging of silt soil particles is needed.



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