Understanding Ag Taking the Next Step

By: Shane New

■ William Clark on July 4, 1804

- "The Plains of this countrey are covered with a Leek Green Grass, well calculated for the sweetest and most norushing hay [7]—interspersed with Cops [copses] of trees, Spreding their lofty branchs over Pools Springs or Brooks of fine water. Groops of Shrubs covered with the most delicious froot is to be seen in every direction, and nature appears to have exerted herself to butify the Senery by the variety of flours (raiseing) Delicately and highly flavered raised above the Grass, which Strikes & profumes the Sensation, and amuses the mind—throws it into Conjecterng the cause of So magnificent a Senerey [several words illegible, crossed out] in a Country thus Situated far removed from the Sivilised world to be enjoyed by nothing but the Buffalo Elk Deer & Bear in which it abounds & [page torn] Savage Indians."
- Recorded in Doniphan County, KS (far northeast) from a point overlooking the Missouri near St Joseph, MO.
- https://lewisandclarkjournals.unl.edu/item/lc.jrn.1804-07-04



Mineral Depletion In Vegetables

Average of 27 kinds of vegetables ...

- ► Copper declined by 76%
- ► Calcium declined by 46%
- ► Iron declined by 27%
- Magnesium declined by 24%
- ▶ Potassium declined by 16%

Ref: David Thomas

Mineral Depletion In Meat

Average of 10 kinds of meat ...

- ► Copper declined by 24%
- ► Calcium declined by 41%
- ► Iron declined by 54%
- Magnesium declined by 10%
- ► Potassium declined by 16%

Ref: David Thomas

AN INDIVIDUAL TODAY WOULD HAVE TO CONSUME: TWICE AS MUCH MEAT

- THREE TIMES AS MUCH FRUIT
- FOUR TIMES AS MANY VEGETABLES

TO GET THE SAME AMOUNT OF MINERALS AND TRACE ELEMENTS AS COMPARED TO THOSE FOODS IN 1940!



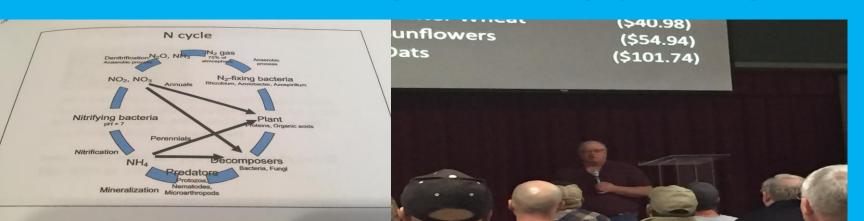
Mimicking the architecture of what was once here







RELEARNING EDUCATING



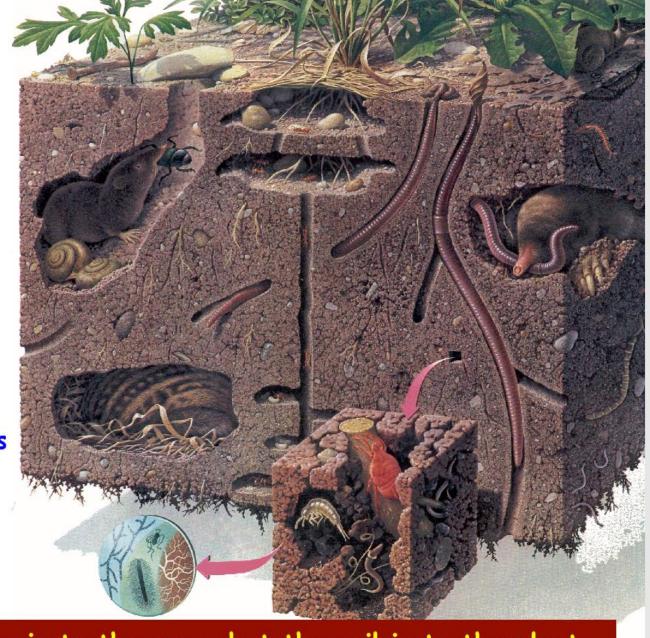
TESTING



90% of Soil function is mediated by microbes

Microbes depend on plants

So how we manage plants is critical



The rumen is to the cow what the soil is to the plant









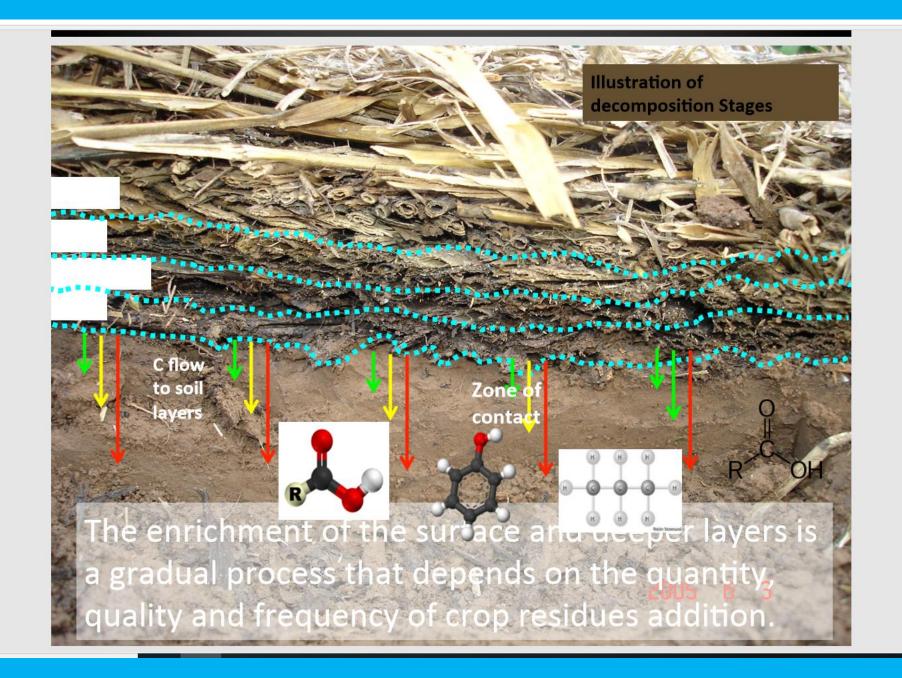




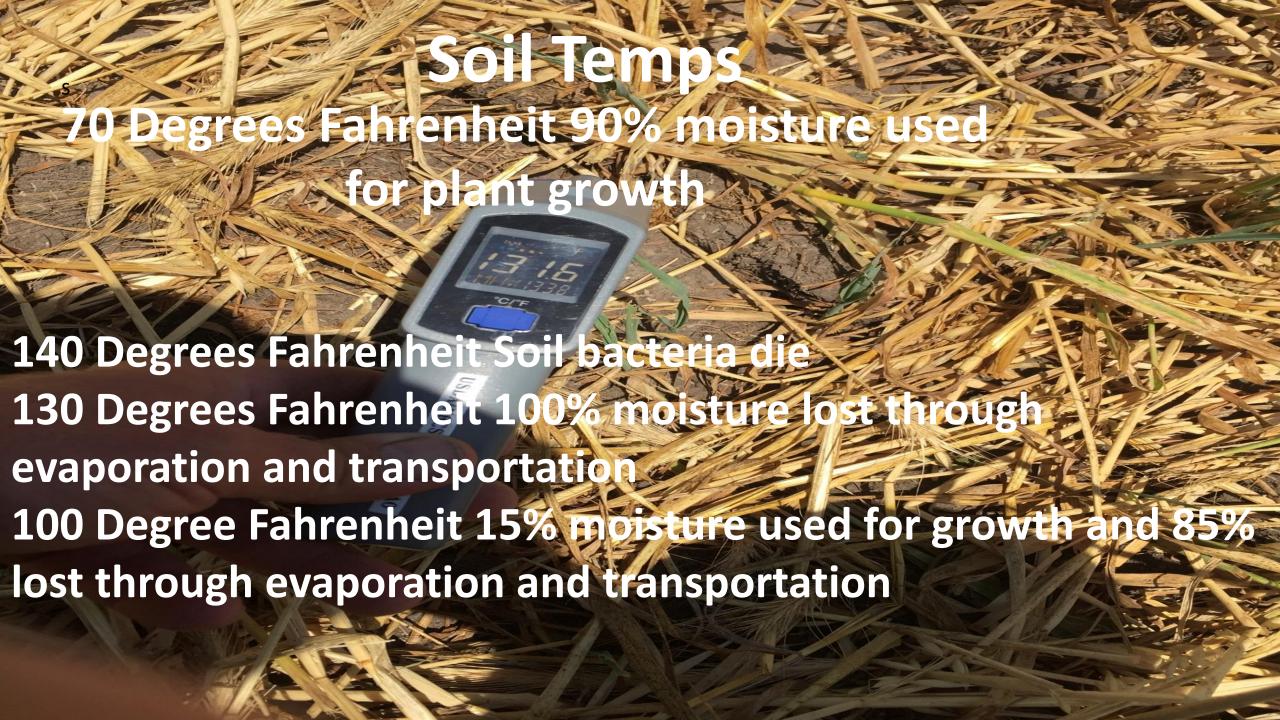
12,000 Lbs. annual soil loss per acre per year on average **Source NRCS**



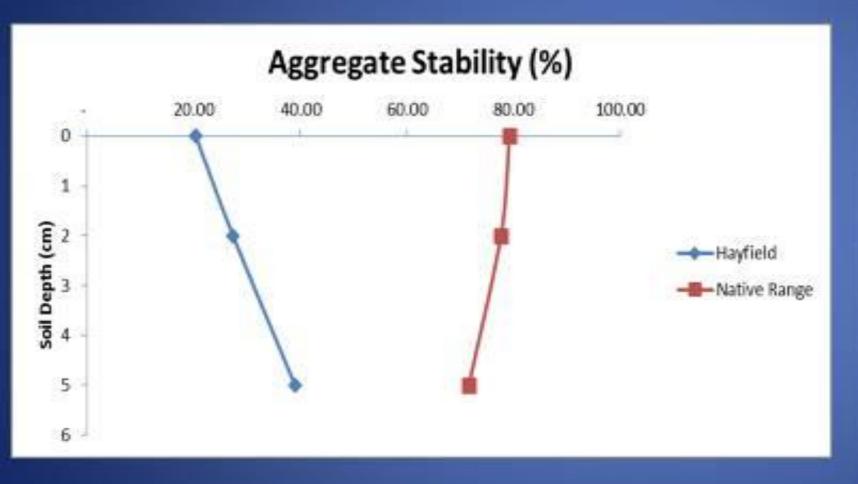








Mellette County, Kube soil











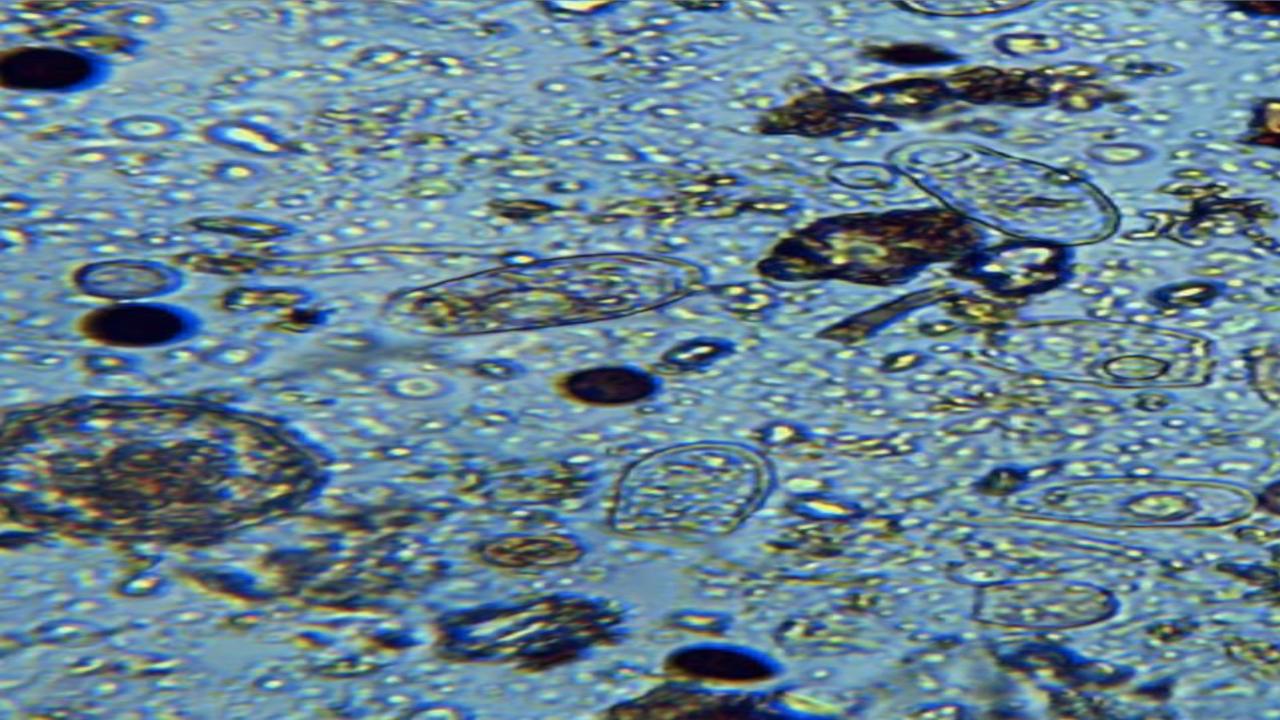




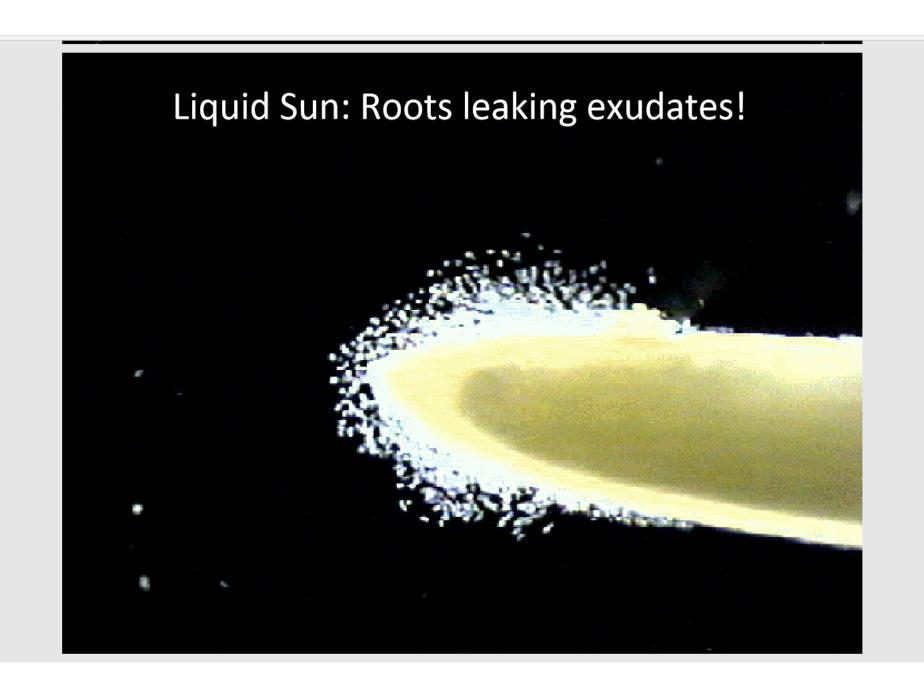


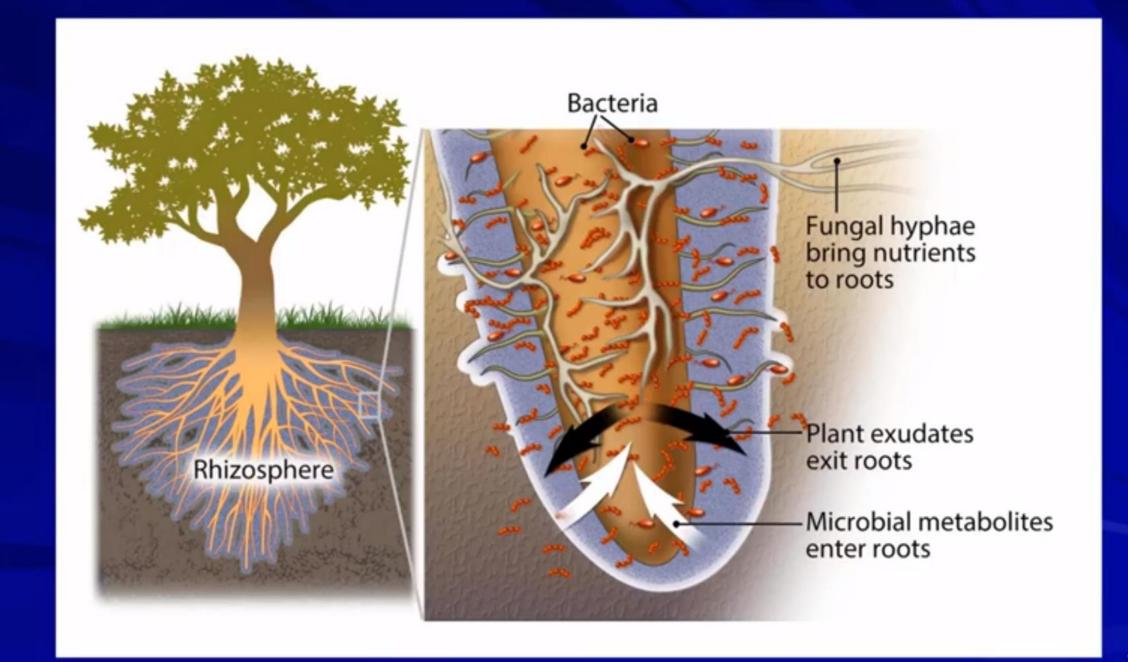


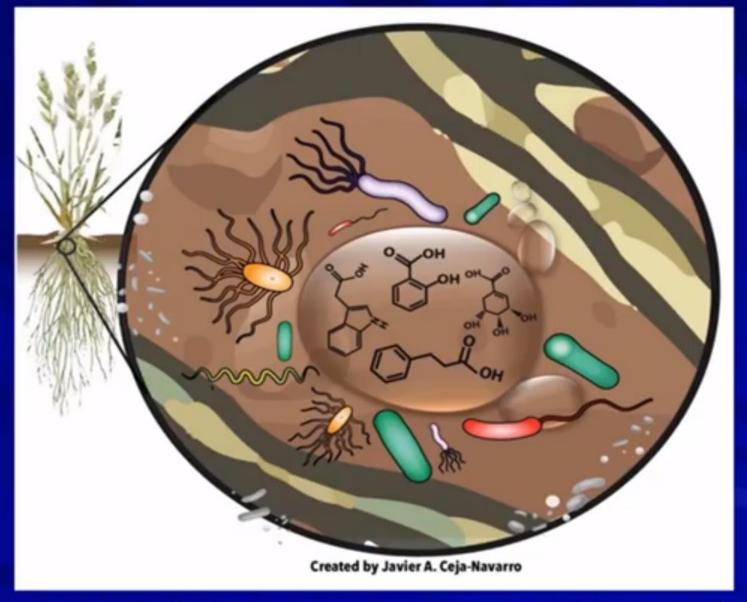












Microbes that flourish in the area around plant roots take up specific organic acids from the root exudates. (Credit: Javier Ceja-Navarro)





































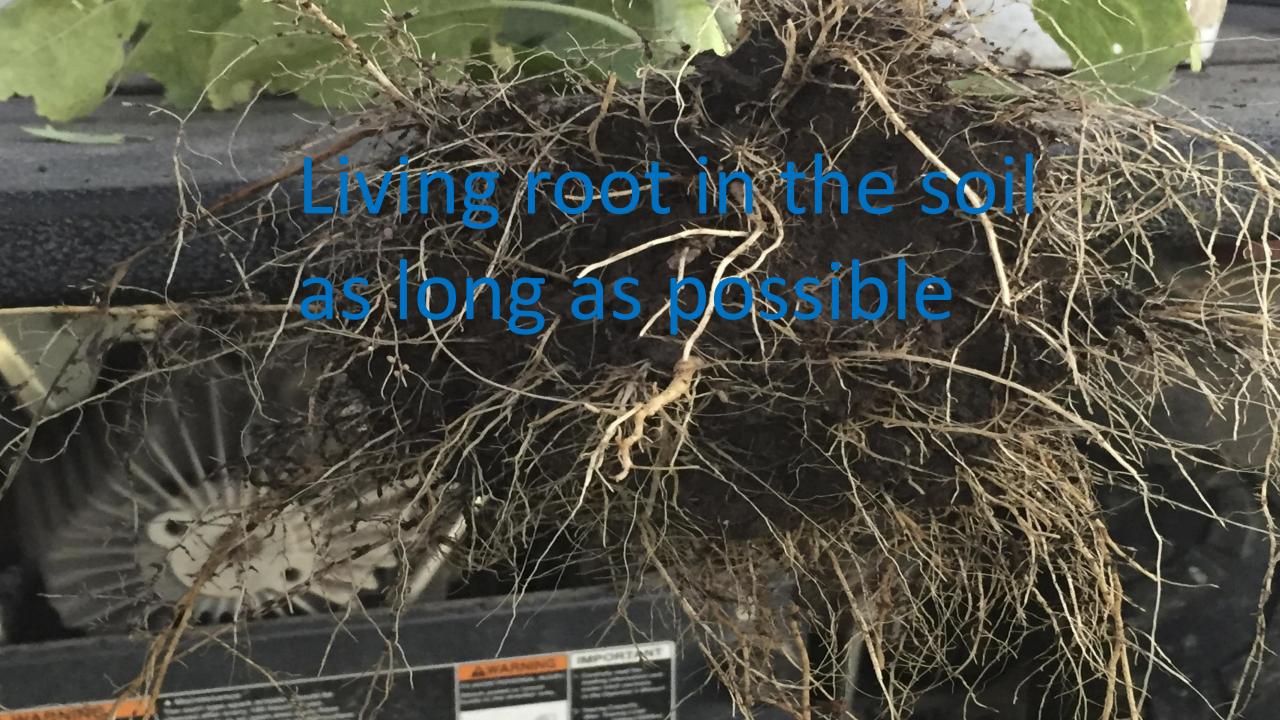




Frank Egler (ecologist)

Nature is not more complicated than we think

Nature is more complicated than we can think











































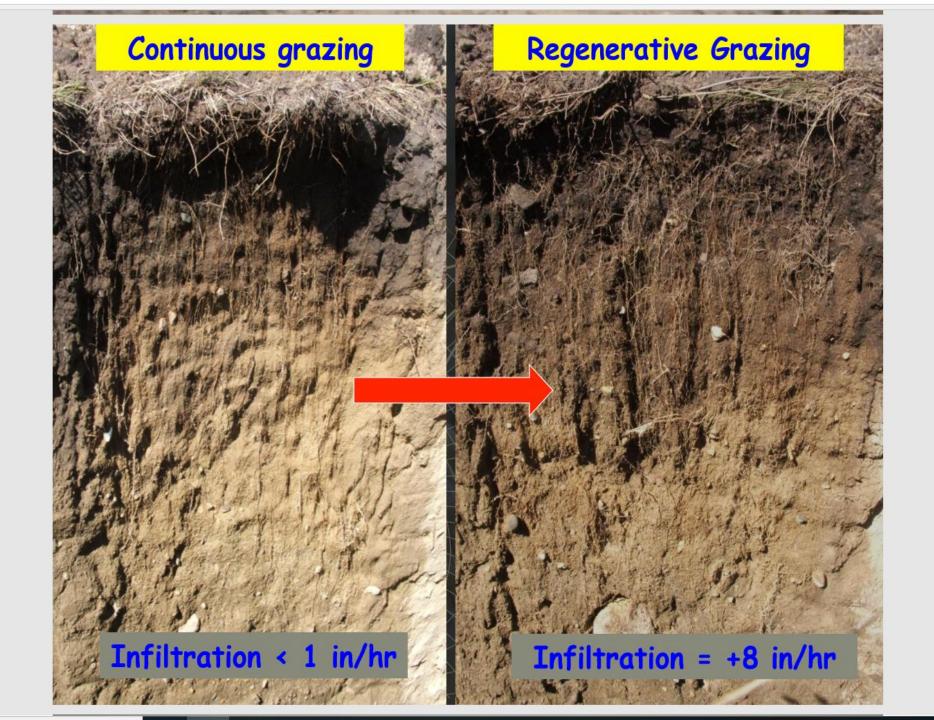












It's not change we are looking for It's Understanding

Through Understanding change will occur

Freedom



UnderstandingAG

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