

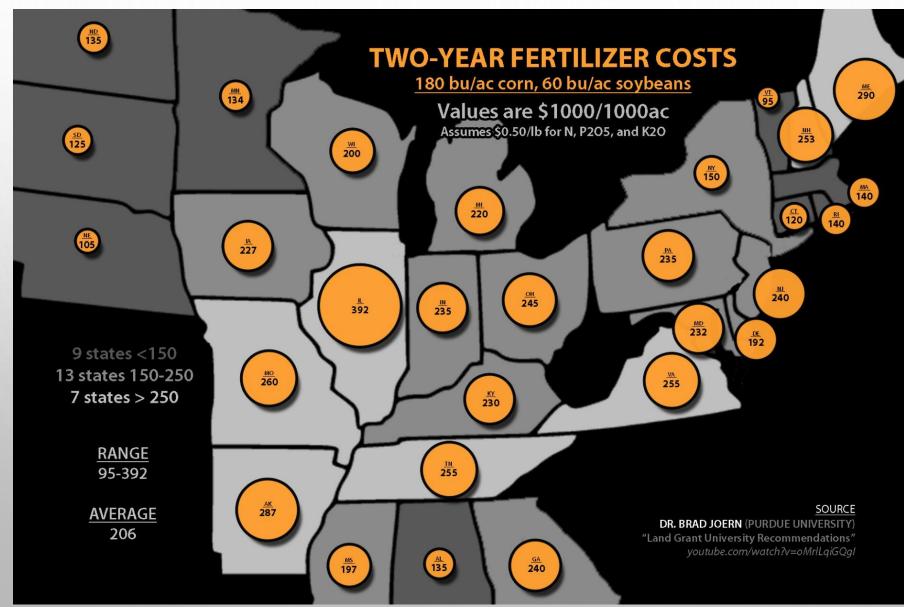




### MY FAVORITE HISTORIC LIE: "RAIN FOLLOWS THE PLOW"



## "YOU CAN TRUST LGU FERTILIZER RECOMMENDATIONS"



Brad Joern
"Magic at
the Border"

#### "YOU CAN'T BUILD ORGANIC MATTER"

It's too hot and our soils are too sandy



Average of 13
Sample Zones on
50 ac in 3 SC counties

Means that do not share a letter are significantly different.



Coolseason

Corn 2016 Corn 2018 Soybeans Soybeans Wheat 2015 **K2O** Applied 2017 (lb) in 4 yrs 420 93 Rx K2O 50 442 51 41 144 64 0 Zero K2O 51 147 48 102 454 41 64

(350lb K)

"MEDIUM" SOIL TEST K RATING, 10 SIDE-BY-SIDE PLOTS EACH TRT

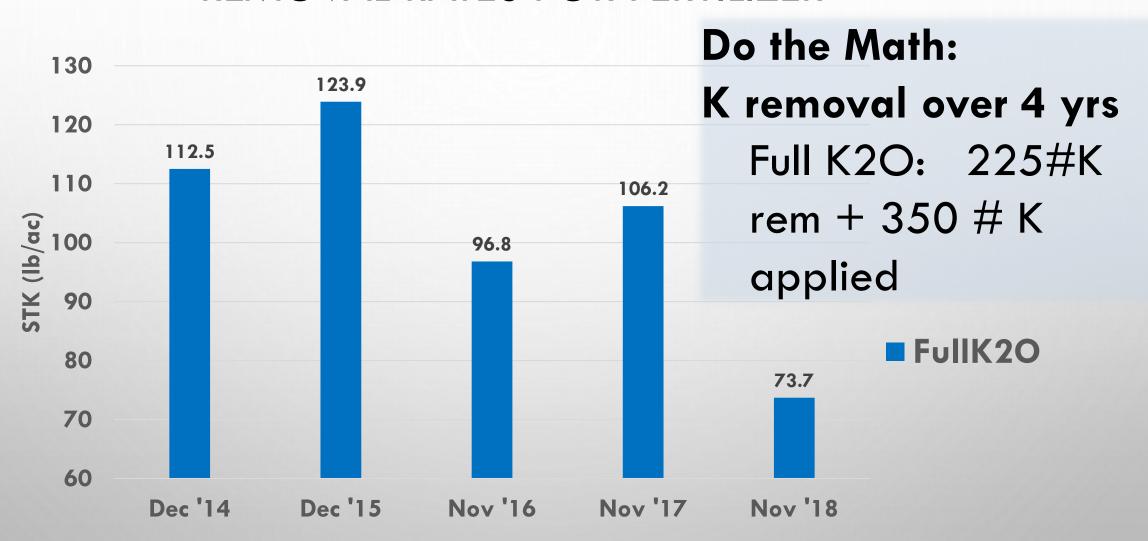
Warm Season

Cores

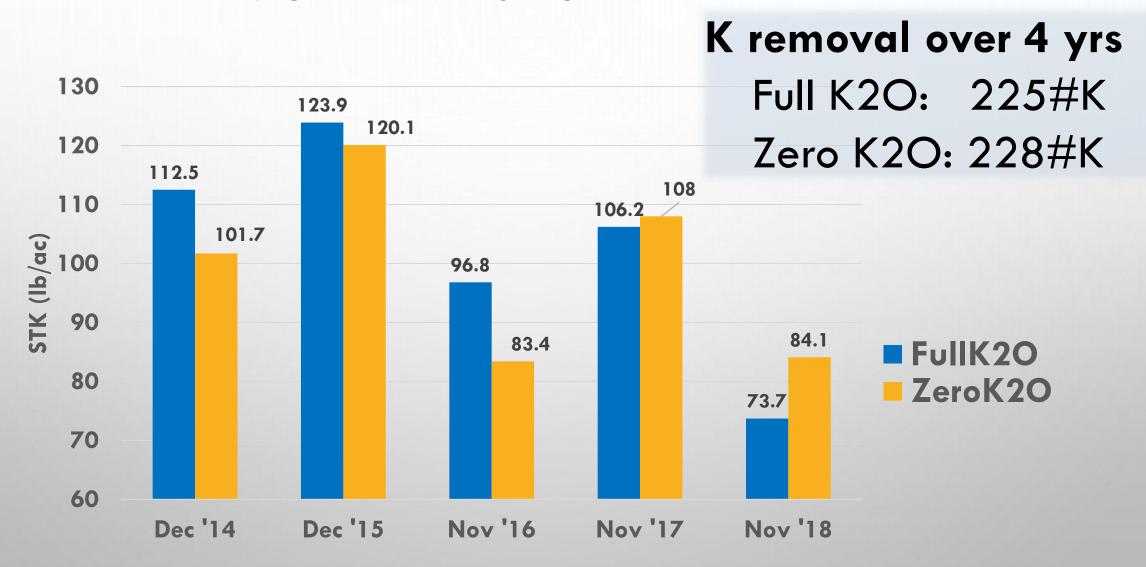
Cool Season

Warm season

#### "GOT TO MAKE SURE YOU AT LEAST ADD CROP REMOVAL RATES FOR FERTILIZER"



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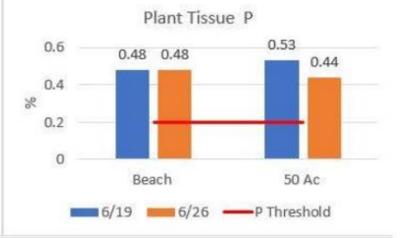


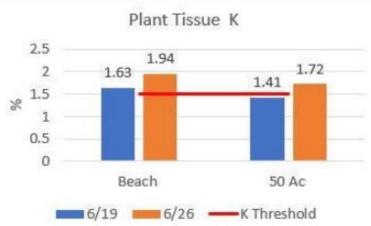
#### "BUILD YOUR SOILS WITH FERTILZER"

STK over 4 years, 6 crops (10 side-by side plots)

















Part of weaning ourselves off inputs is to look at the data and not be fearful. Friend in Georgia (3 years cover cropping) took the plunge this year to apply zero dry P2O5 and K2O (or starter fertilizer). In early June he took tissue samples of his cotton in some pretty dry weather (no N applied at this time either), some of the results (K,Ca, Mg) looked lowish and I asked him to take another sample after a rain which he did.

Second set of results from a post-rain event (orange bar) came back, no fertilizer added. Advice given him after the first results were to apply nitrogen, muriate of potash, Kmag and foliar sulfur (he didn't). I think he has saved a bundle.



0

GIF

Write a comment...

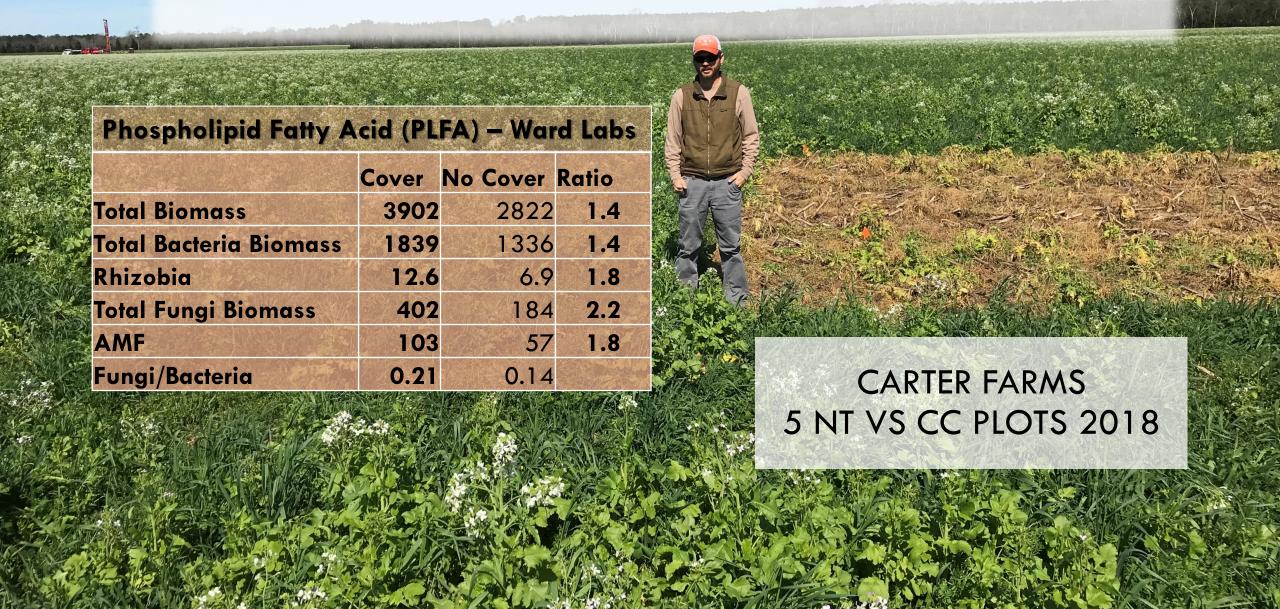
# "COVER CROPS SUCK THE LIFE OUT OF SOILS" A CHEMICAL ARGUMENT

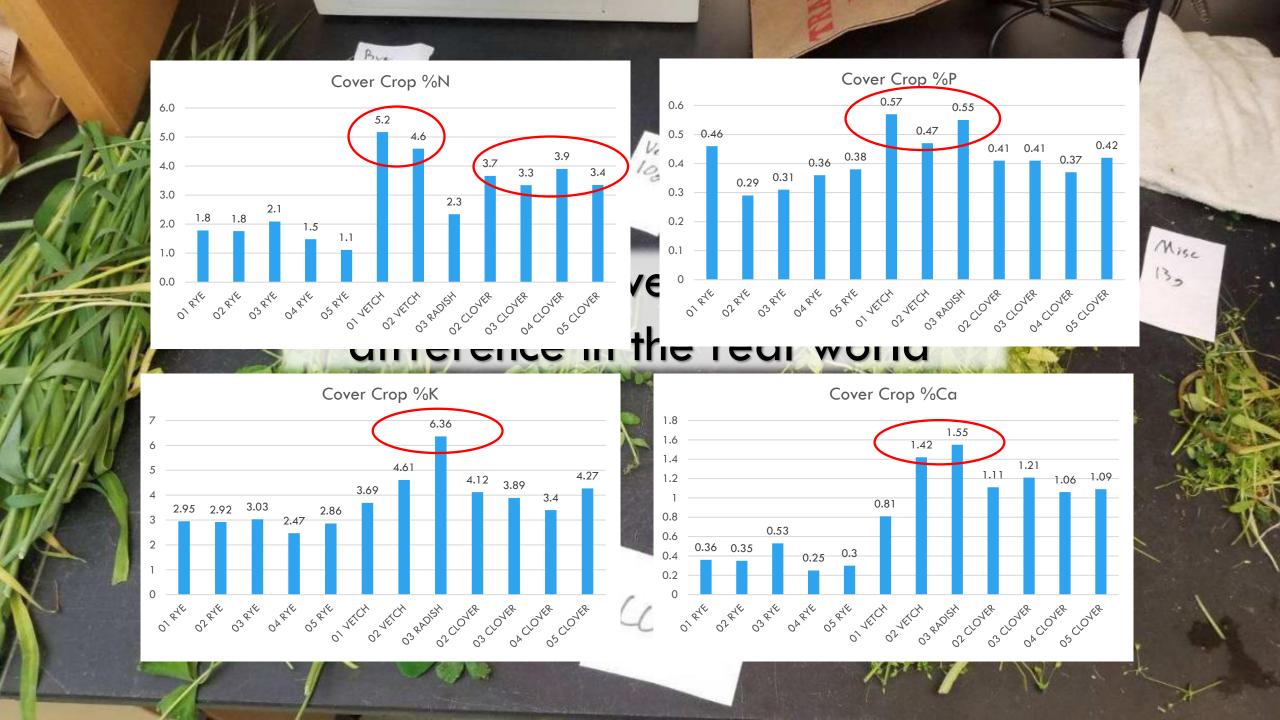
6" soil test and cover (lb/ac)			W.
	Cover <sup>1</sup>	No Cover	
N in cover	192		
P in cover	-30		
K in cover	269		
N in soils <sup>1</sup>	24		
P in soils <sup>2</sup>	143		
K in soils <sup>2</sup>	113		

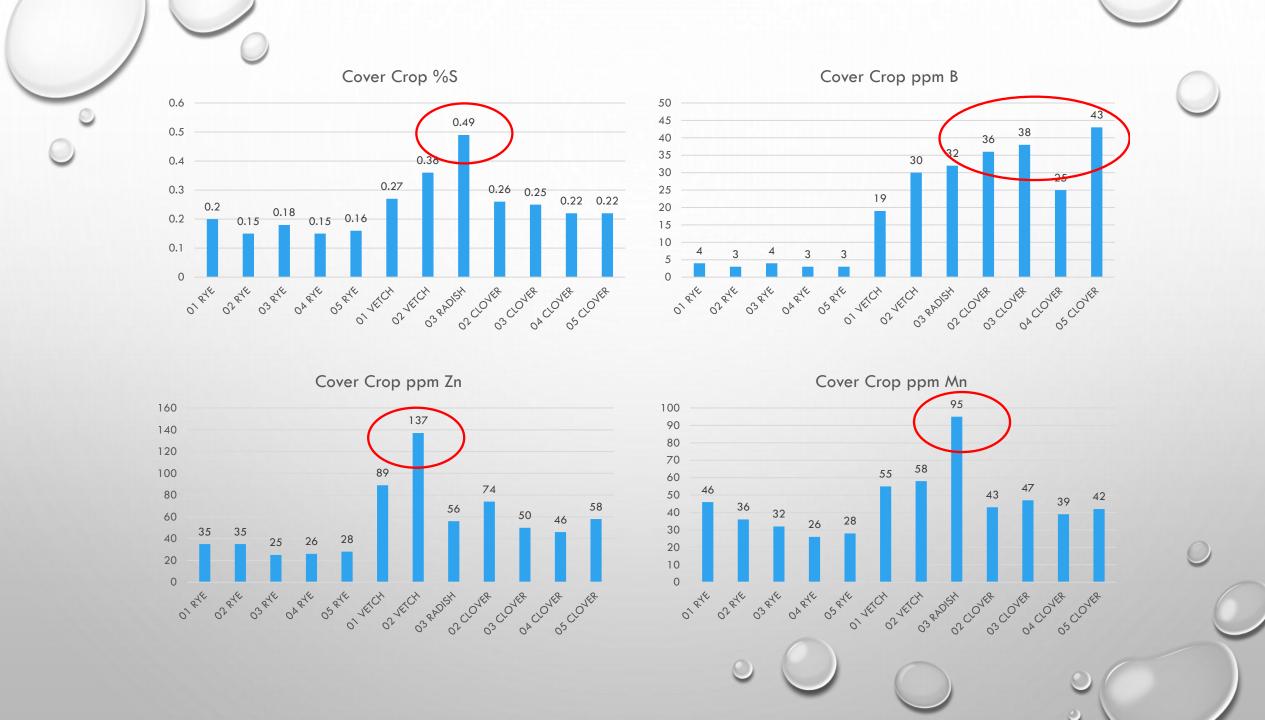


- 1. 8004 lb/ac DM ave in 2019, 5170 lb/ac DM ave in 2018
- 2. N in soils: NO<sub>3</sub><sup>2</sup>-+ NH<sub>4</sub>-N + Organic N
- 3. P and K Mehlich 1

# "COVER CROPS SUCK THE LIFE OUT OF SOILS" A BIOLOGICAL ARGUMENT









Looks like this is an epidemic. Another farmer was told he absolutely had to spray for stinkbug pressure. Visited 10 fields and took 318 bolls (as I walked through a bunch of spider webs). One boll was spoiled 13 had warts. Land grant threshold is 10% warts/blemishes. We had 4.4%. I wonder how the dealer was able to come to his conclusion? My evidence is in the photos.



# "YOU NEED TO DO A PREVENTETIVE SPRAY BEFORE ITS TOO LATE"

OR:
"I LEFT A PALLET OF ACEPHATE AND
BIDRIN IN
YOUR SHOP"



My new thrill is following the pollinator strips next to cotton at the Jason Carter farm. The buckwheat has had it's day, now it's time for the sunflowers to shine but the sunn hemp will soon dominate the flower display. A wonderful insectary - lots of ladybugs, butterflies and as many as 8 Mississippi kites feasting on the cotton field (now 2 weeks into bloom) and the pollinator strips. No insecticide sprayed (a complete no-no in this world). Clean, weed free cotton, clean blemish free bolls.



# "POLLINATOR STRIPS WILL HARBOR PESTS"





#### SYSTEMS THINKING

THE SYSTEMS APPROACH TO THINKING IS VERY DIFFERENT TO THE PIECEMEAL, FRAGMENTED APPROACH WE USE

EVEN THOUGH OUR UNIVERSE IS HELD TOGETHER BY SYSTEMS, WE CONTINUALLY BREAK THINGS APART TO LOOK AT THE PIECES AND LOSE WHATEVER SIGHT WE HAD OF THE WHOLE.

THIS PROCESS, KNOWN AS [REDUCTIONIST] THINKING, MAKES THE PARTS PRIMARY AND THE WHOLE SECONDARY

IN SYSTEMS THINKING, THE WHOLE IS PRIMARY AND THE PARTS SECONDARY

#### **ANDREW PAPGEORGE**



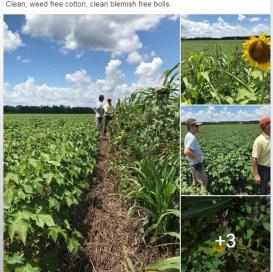
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### Reductionist vs Systems Explanation

Degraded (brittle)
vs.
Regenerative (resilient)
Systems



Wendell Berry's book, "The Unsettling of America" has my mind going 100 miles an hour. Here's a story that makes the mind reel:

Nat Bradford, farmer, cover cropper, know for heirloom watermelons, collards, pumpkins and more, netted over \$27,000 in 13 weeks on 0.38 acres of organic okra this summer. Okra followed a cool season cover. No fertilizer or chemicals of any kind. That's right. 0.38 acres.Nat Bradford





One of the pleasures I have is working with folks who think outside the box. Nat Bradford is an organic farmer and grows his collards with a cover crop. Says Nat: "Clover and vetch is proving a great cover for the collards. The clover is competing with the vetch and keeping it in check. These are the sweetest, most flavorful, clean collards I have ever grown. Things are coming together."



### SEEDS OF HOPE



