

No-Till Advanced Crop Nutrition Practices Multi-Species Cover Crops Livestock Integration for Soil Health Virtual Fencing **Direct to Consumer Sales**

My Farming Background

Limited Livestock Experi









Yetter

















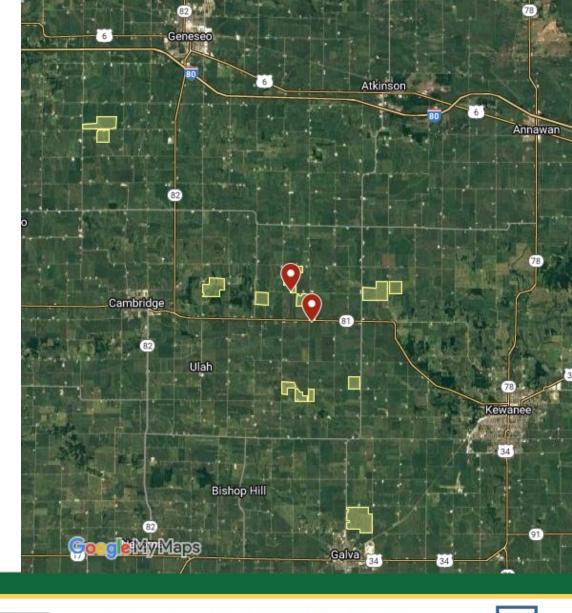








REAS Family | Farms Grateful Graze 2500 acres of crop land 226 of pasture/timber NO Neonics, Fungicides, Insecticides Non-GMO Corn, Non-GMO Soybean, Wheat, Triticale, Winter Barley



























OMissinizeeSth Timeline Disturbance 1996

- 2. Maximize Soil Cover 1996
- 3. Continual Living Roots 2016
- 4. Increase Biodiversity 2017































Nutrient Management to enable Cover Crops & No-Till

VRA row-by-row

3 Separate Blends

5 locations (FurrowJet & Conceal)

175 - 18 - 23 - 21 S + Micros, Bios

1st nutrient application is with planter

Y-drop sidedress























HD Cover Crops

Every Acre Every Year

Do more than Rye

Key Benefits

- Weed Suppression
- Water Infiltration
- Erosion
- **Biodiversity**































Plant Soybeans Green

Utilizer Skip Strip covers for Corn

Now solid seed at 10 degrees for 15" beans

Forget Res Mgrs Watch closing wheels

Be sure to roll! (+7 bpa)

























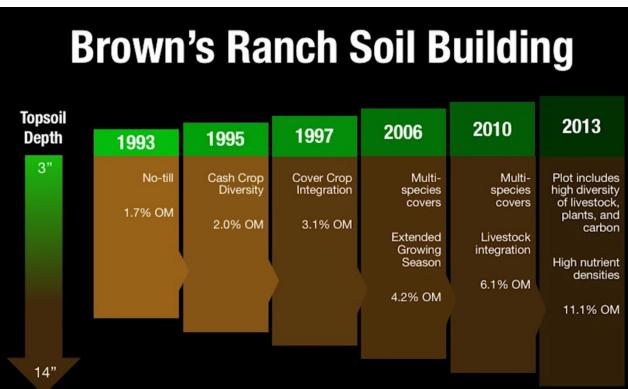








NNTC 2016: Gabe Browns 2 slides that led to Livestock Integration



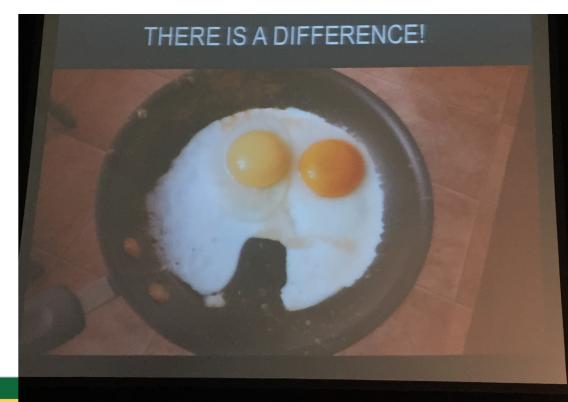
























































Photo after a week with Dwayne Beck, Jay Fuhrer and Gabe Brown

I knew

I had to do

Project Moo



















Integrated Grazing

Cover Crops

Portable fencing

Cafeteria Minerals

Essential Oils

Portable water

PLANNING!!!!













Regen Rotation 2021



March 9
Trit seeded Nov
Clover seeded Feb

May 6 2 weeks before Cattle





May 22 Calving on Covers

July 8
MOOving cattle
and seeding
summer covers



Regen Rotation 2022

June 21 Baleage of Triticale and 2nd year Clover 2.1 DM Tons/acre



September 4 Summer cover grazing



December 2 Seeding cereal rye ahead of soybeans















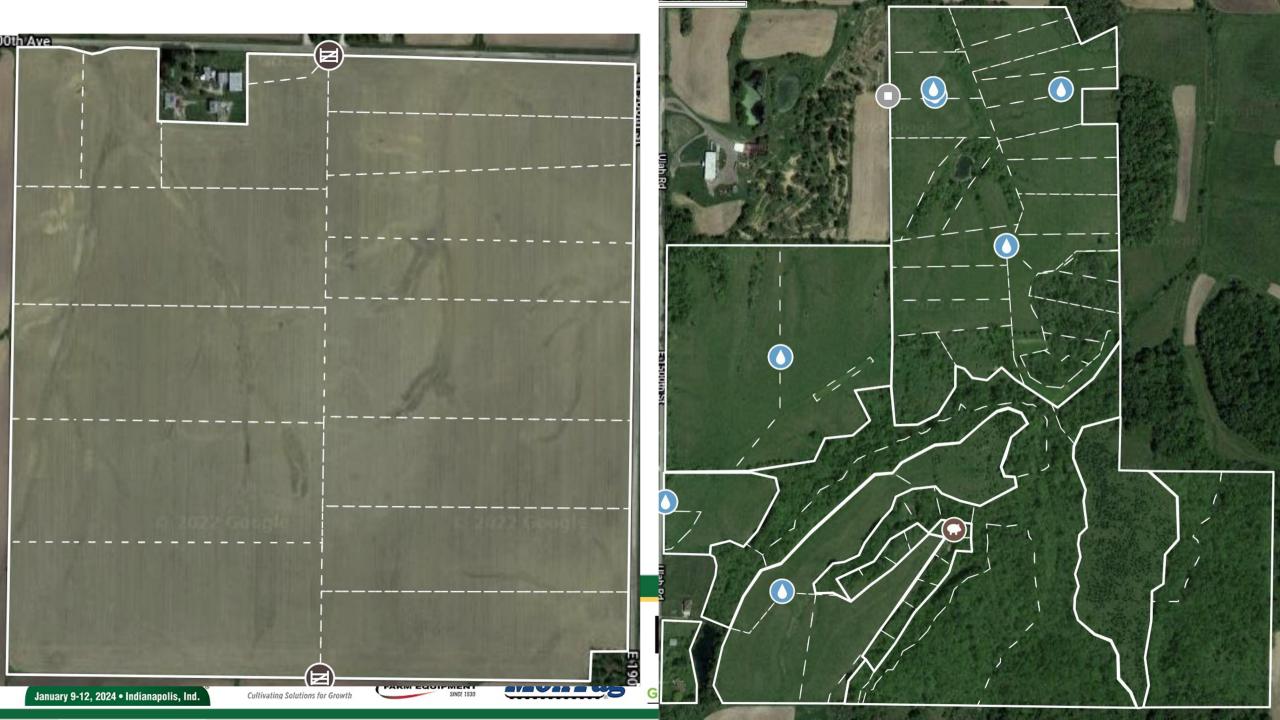














"The electric light bulb did not come from the continuous improvement of candles." (Oren Harari)

12/21 North America's First No Fence Cow











































The Collars





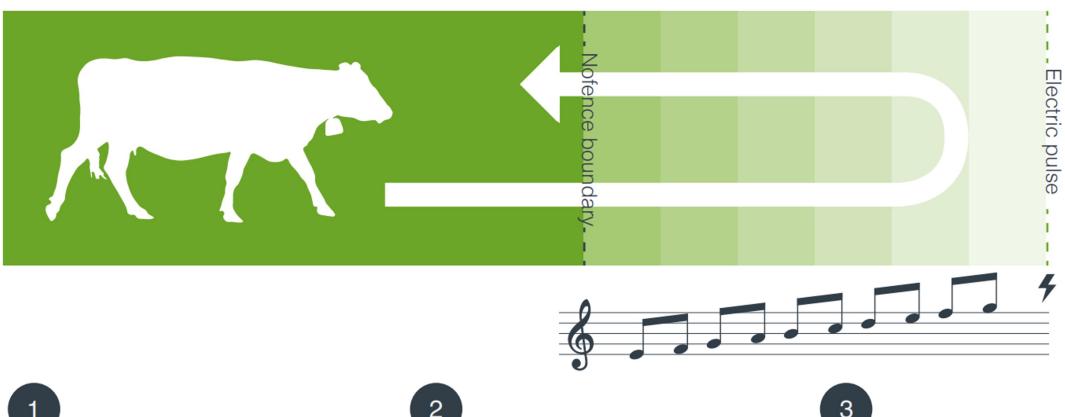
Solar Panels
Replaceable battery
GPS with WAAS
Long range cellular
Bluetooth





Grazing area

Audio zone

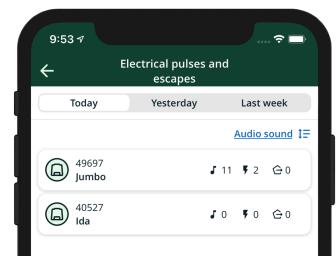


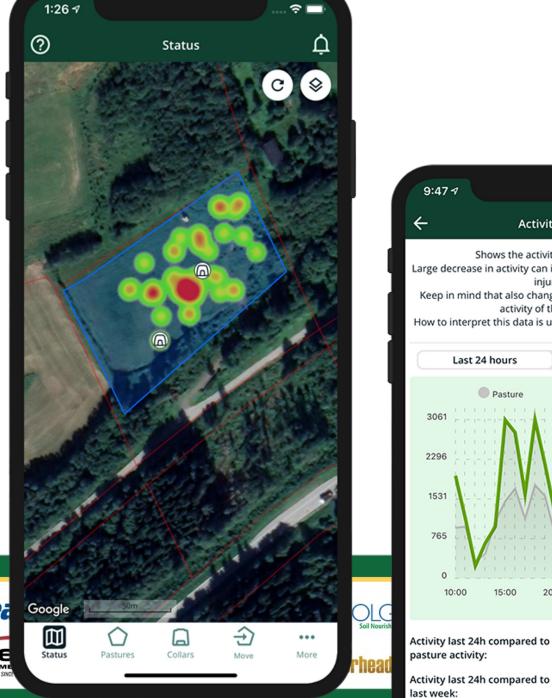
Define the pasture with a swipe on the **Nofence-app** and let your animals graze freely.

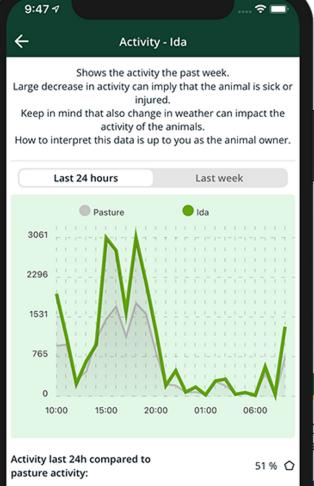
The collar gives the animals audio cues which increases in pitch if they crosses the Nofence boundary.

If the animal does not return to the pasture, it will receive a single electric pulse at the highest pitch of the audio cue.

App

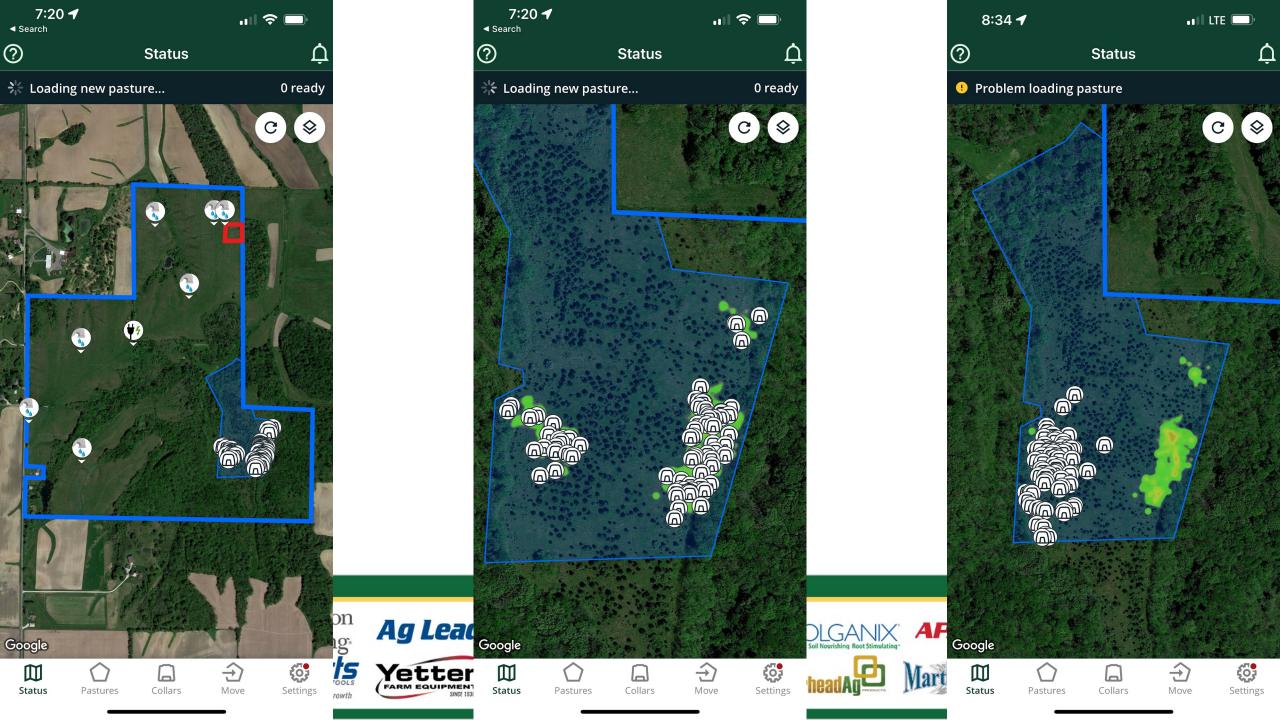














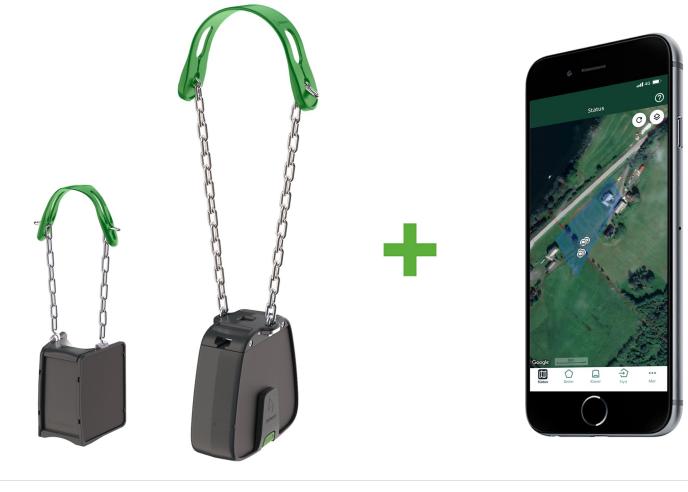
72,000 collars
3,600 farmers
440 million hours
of grazing time











\$199 \$299 \$3.00-\$4.50/head/month

Discount applied with 50 collars and above







Yetter

























NRCS grazing payment

Programs: EQIP or CSP

Timeframe: 1-5 year contracts

NRCS plan:

- Talk to your local NRCS agent to incorporate virtual fencing into your Prescribed Grazing Management Plan (Practice Standard 528)
- Producer will purchase virtual fence upfront
- Receive payments for improved grazing per acre per year of your contract





























Questions I am asked.... Cost?

2 year warranty: 51 cents/hd/day

5 year life: 26 cents/hd/day

Labor and Fencing savings pays for the units

UNLOCKS amazing management:

- Fencing Ponds, Timbers, Gullies in seconds
- Exclude thin areas
- No need to connect to perimeter for power
- Irregular shapes and sizes























Battery Life

Never have recharged our batteries once installed

Simply solar even on long cloudy stretches

Barns may be a problem... I don't know-don't have a barn.





















Behavior Observations

No more trailing along wires
Able to adjust size without resetting a wire
No watching you set a wire
No stampede into next paddock

Creep feeding Calves















No More







Scenarios for Virtual Fencing

No Cattle--Much easier to get started than ever before! Set Stock Grazier

 You've heard you can double your stocking rate, but don't have the time or equipment to do daily moves

Rotational Grazier

- Easily subdivide your paddocks allowing even more recovery time Daily-Move Grazier
 - Hit your target time...everyday
 - Increase moves to multiple times per day



























For Fun...Here's some of our favorite fencing scenarios.

- 1. When the ground is froze and you have to drill a hole for the post
- 2. When it's pouring rain and it's so muddy that the ATV can barely move (Plus lightning)
- 3. When your planting, harvesting or doing other farming activities
- When your on vacation (What's that?)
- 5. Through the woods, crossing a creek Paddocks can be any shape or size and don't need to be connect to a perimeter fence/power supply.































My Vision for the Future - AutoGraze™

No Fence is the connected data hub for the animal with other sensors Autonomous water/mineral/oiler follows with the herd Imagery is used to assess forage quantity and quality Paddocks are auto generated based upon growth and forecasts

Make grazing so easy, even a corn farmer (like me) could do it!!!

Feedlots exist because they are the most economical way to produce meat. I believe technology can enable us to bring livestock back to the land.



















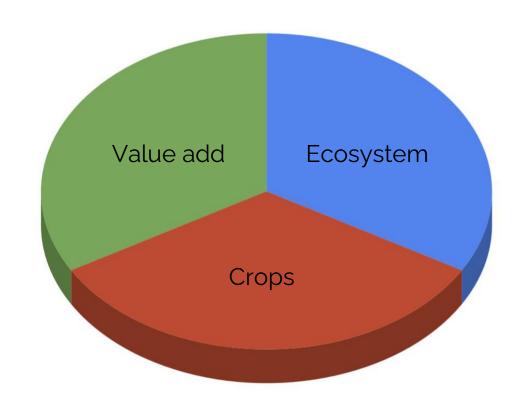




Future Profit Streams

- **Primary Crop Production**
- Value Added Enterprises
 - Companion Cropping
 - **Integrated Livestock**
 - **Premiums**
 - Direct marketing
- **Ecosystem Services**
 - **Carbon Credits**
 - **Water Quality**
 - Nature (Audubon, Ducks, etc.)

I believe we have the ability to TRIPLE gross profit with **Regenerative Agriculture!**

































What did me in was not what I did not know. It was the things I knew which were not so.

















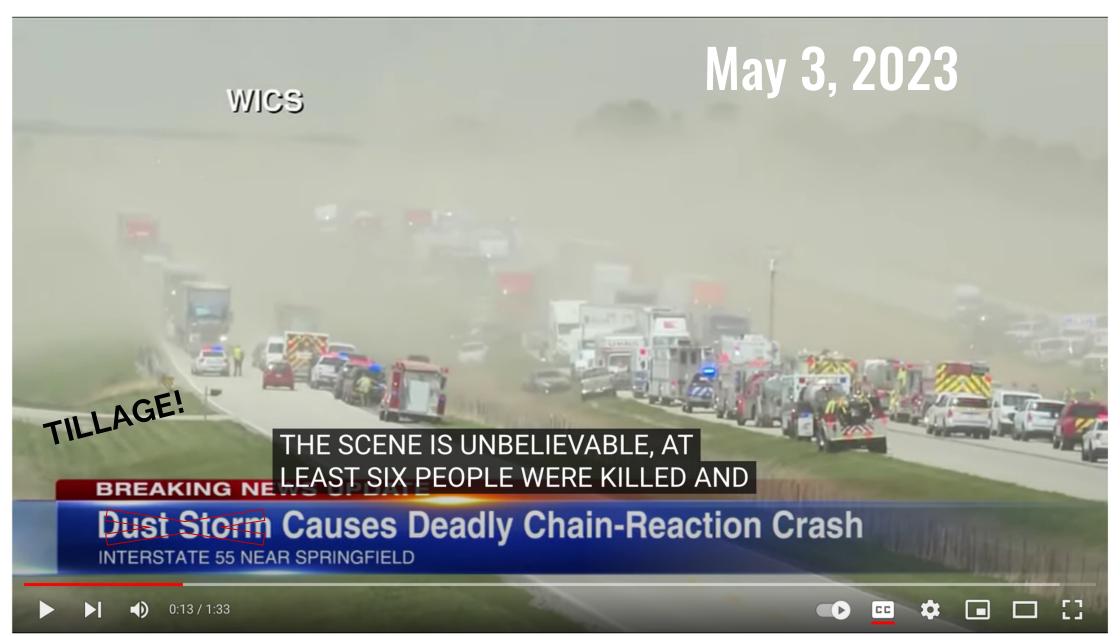
























Taking the Next Right Step

































Do you enjoy your food?

Pasture Raised Eggs Timber raised sausage Wild mushrooms

Farming is about eating.

Have we forgotten?















Don't be afraid of lunatics

Joel Salatin, the self described Lunatic Farmer.

He is largely responsible for the modern pastured poultry, pastured pigs, and homestead movement.

Be a lifelong student. You can always learn something!















The LAW of Context

I haven't given you specific things you should do on your farm.

I've shared how I am trying to put the Principle into Practice and how others have.

Your CONTEXT is for you to fully understand.

But it is NOT AN EXCUSE from trying something new!

























I believe when farmers know the right thing, they will do it.

Do you want to be an Ostrich?



















You might have a lot of work to do, but enjoy the ride!



Changes I've made after I learned theres a better way.

No till: Save the Soil

Cover crops: Capture Carbon, Diversity, Water Management, Weed

Management

Neonic free: Save the insects, keep balance in nature

Fungicide free: Why kill the organisms that digest our residues?

Non-GMO: Stop gene flow

Livestock integration: Improve soil and provide healthy food for

families to enjoy























My Future Plans

DIVERSITY!!!

Perennials Small grains with cover crop Heritage grains Milling, Ciders, Wines

Processing, Distribution and Marketing.























What is your next right step?

No-Till Cover Crops HD cover crops Small grains Non-GMO No Neonics **Grazing Livestock** Daily moves

What is something else that you know you need to do? What about something you wish you didn't do?





























Just Do it!

Try your next step on enough acres that you are invested in it and paying attention to it. If to small you'll ignore it.

Do it RIGHT...no shortcuts, duct tape and cable ties.

Find out what works and move to the next.

If it works scale up to all your acres in 3 years.































Change is not easy

Every choice I make has an impact my family, farm, community and world.

Every choice you make does, too!

Are you willing to lead the change?

















DO

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"People who say it cannot be done, should not interrupt those who are doing it"

George Bernard Shaw





























Be our guest!

Farmers, Thought Leaders, Researchers, AgTech Entrepreneurs

Share your story with others What's one thing you have learned by being here? What will you do different as a result?

Join us in the Phoenix Room











































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