Tierra Vida Farm

DANIEL & HANA FULLMER
DURANGO, COLORADO

SEASONAL PRODUCE FOR 120 FAMILIES,
7 WHOLESALE CUSTOMERS
• A little about us and why we farm
  • The biology of regenerative farming
  • Climate change and what you can do
  • Resources and questions
Why we do what we do

Three “E’s”
- Energy
- Economy
- Environment

Personal and Social Health
- Nutrition
- Action
- Access

Climate Change
- Carbon sequestration
- Water Storage
- Drought Resiliency
What we started with
127 tons of CO2 proactively cycled into the soil during our 5 years of farming.
1. Use Animals

- Rotationally grazed
- Grass finished
- No confinement

2. Cover crops

- Living roots
- Protected soil
3. Grow Diversity
4. Use Compost
5. Minimize Disturbance

- No Synthetics
- Minimize Tillage
6. Land Transition

- Long term asymmetrical lease
- Conservation easements
- Sell at productive value
If an increase in 1% of the organic matter of soil in an acre will sequester 18.35 tonnes of CO$_2$, then 14 billion acres could sequester 256.9 billion tonnes. This is more than three-quarters of the CO$_2$ that we need to sequester to get back to 350 ppm, the level of sustainability – all for increasing soil organic matter by one percent!

Conversions, Quantities, Calculations, and Indulgences a primer —Jack Kittredge
water cycling in top 6” inches

"EACH 1 PERCENT INCREASE IN SOIL ORGANIC MATTER HELPS SOIL HOLD 20,000 GALLONS MORE WATER PER ACRE."

https://www.nrdc.org/experts/lara-bryant/organic-matter-can-improve-your-soils-water-holding-capacity
What are the Bottlenecks to Scaling?

- Land Access
- Capital
- Price
What Can You Do?

Buy a freezer

Buy a CSA

Buy Local
Resources

Online:

Soil Carbon Restoration: Can Soil do the Job? by Jack Kittredge

Amazing Carbon by Christine Jones

The Playbook for Poisoning the Earth: The Intercept

Conversations from the Edge: Walter Jehne

Books

How Cows Save the Planet: Judith Schwartz

Water in Plain Sight: Judith Schwartz

For the Love of Soil: Nicole Masters

Podcasts

Providing Affordable Food as Medicine: John Kempf