

Using Cover Crops and No-Till for Vegetable Production

Steve Groff
The Cover Crop Coach



Started No-Till in 1982- Erosion



100 ft from ditch



1st Cover Crop Roller in U.S.- 1995



Birthplace of Tillage Radish- 2001



Got to Meet a Kangaroo!





Tillage Radish in Australia- 2015





Cover Crops for Vegetables in Australia



PFarming Secrets



You can't BUY soil health: It has to be MADE!



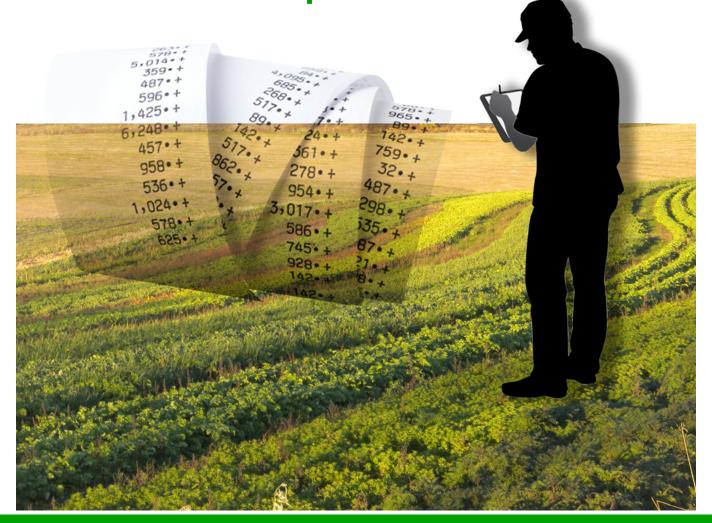
30 years ago!



Soil Covered with Living Roots all Year



Treat Cover Crops Like Cash Crops!



Can we do better?





Robert Hinricksen- Queensland, Australia







My History







No-till Transplanted Tomatoes





No-Till Processing Tomatoes



No-Till Processing Tomatoes



Sep 21, 2019- Prepping for 2020



Weed Control and Fertility



Let's Roll!



Biggest Challenge...



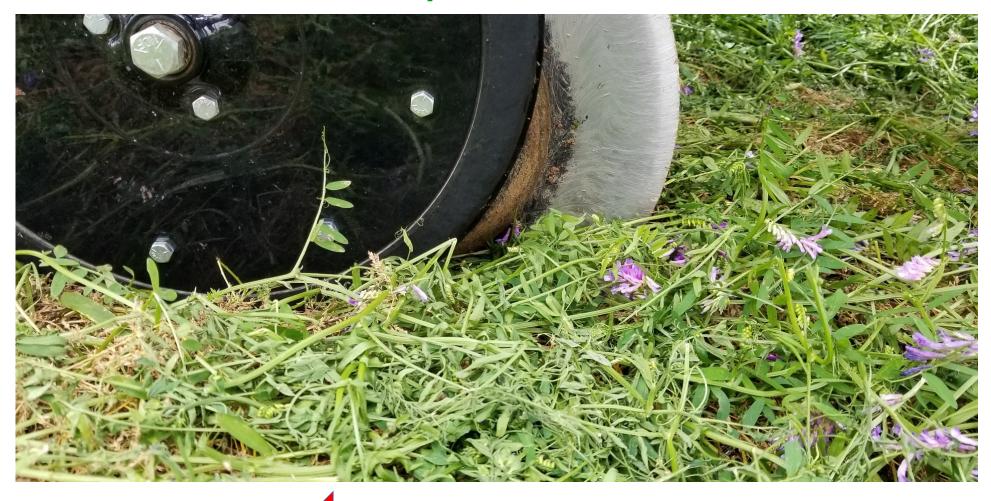




Here's how it's done



Cover Crop Residue Slicer



Clean pumpkins=value added







One-Row No-Till Planter



No-Till Water Wheel Transplanter



Oxen Drawn One-Row No-Till Planter



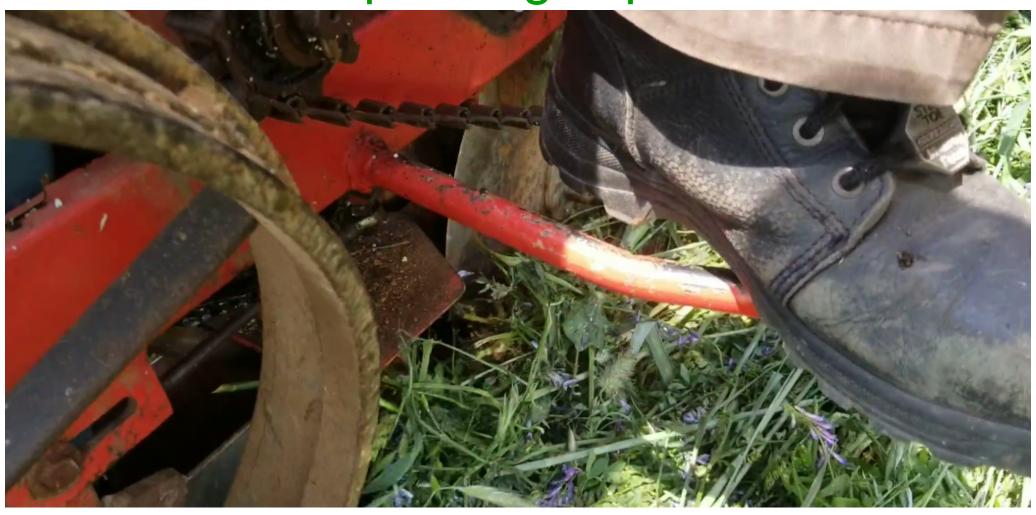
Transplanting



Transplanting- Up Close



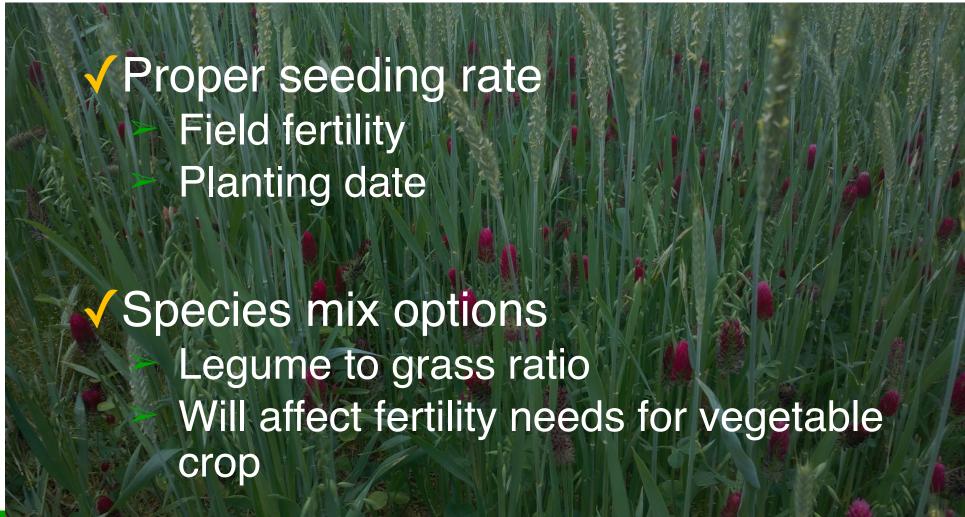
Transplanting- Up Close



Weed Control and Fertility



Managing the Cover Crop



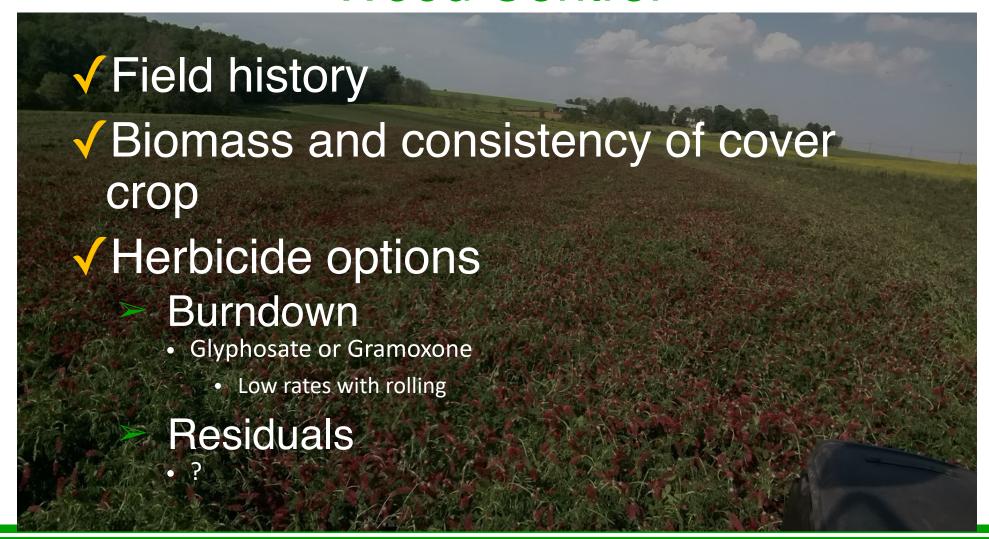
Managing the Cover Crop



Managing Fertility

Field history Species of Cover Crop Cereal rye/triticale needs over 100lbs of N Need N early!!!! Hairy vetch/crimson clover might only need 40-60lbs N No N early- possibly none... Mixes species- adjust as needed

Weed Control



Nice Mix!



Managing Termination



Row Mower



Row Mower



Watermelons/lopes on Plastic

OPTION #1

Plastic laid in fall

- √ Lay plastic
- √ Immediately broadcast 2 bushel cereal rye
- √ Plant with waterwheel planter in spring
- √ Terminate cereal rye with a grass herbicide at head emergence

Plastic Laid in Fall- Cereal Rye Broadcast





Cereal Rye With Plastic



Nice Lopes!





Watermelons/loped on Plastic

OPTION #2

Plastic laid in spring

- √ Lay plastic
- ✓ Immediately broadcast 2 bushel spring oats
- √ Plant with waterwheel planter
- √ Terminate oats with a grass herbicide at head emergence

Plastic Laid in Spring- Oats Broadcast





Spring Oats With Plastic



Row Middle Roller/Sprayer



The Roller



Row Middle Roller/Sprayer

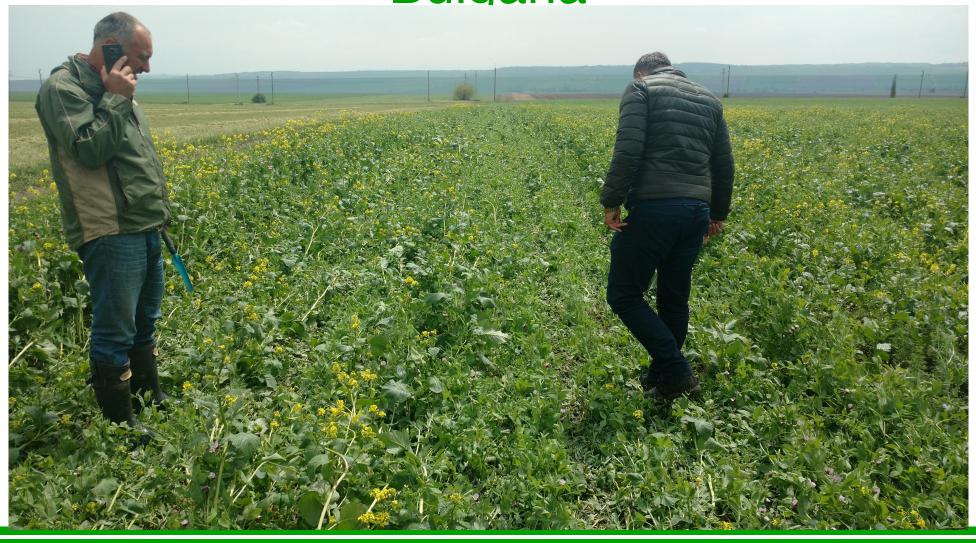




Sweet Corn Planted into Hairy Vetch



Bulgaria



Bulgaria









The big agroecology transition in our fields

To protect soil

Objective: to preserve natural land, which continues to play its role in the ecosystem (such as draining water to avoid flooding).

There is, of course, the famous crop rotation technique, already widely practised by our partners farmers, as well as **vegetation cover**, **organic fertilisers and less ploughing**.





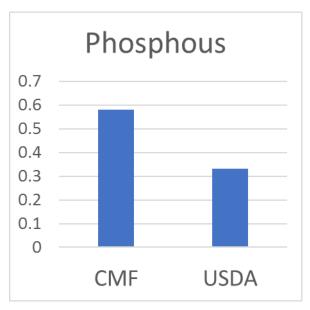


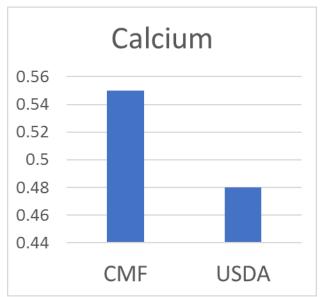
Companies who have a Plan

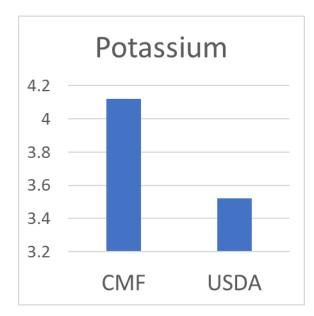
- √ General Mills
- √ Land o Lakes
- √ Campbells Soup
- √ Tyson Foods
- ✓ Pepsi
- √ Wrangler
- √ Phillip Morris

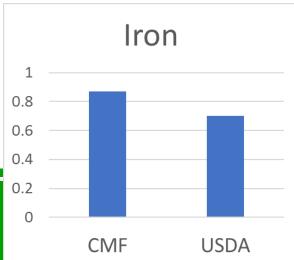
- √ Whole Foods
- √Blue Apron
- ✓ Sweetgreen
- √ Cargill
- ✓ Walmart
- √ Coca-Cola
- **√**ADM
- √ Bonduelle

Does Nutrition Hold the Key?

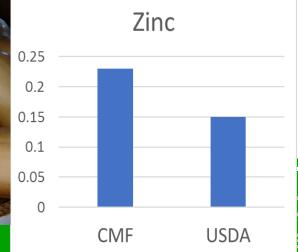














The Soil Health Difference



Long-Term No-Till/ Cover Crops/Diversity



Full Tillage/no covers until this year



Sweetgreen



"Steve Groff is not only a true innovator, but a visionary who shows us the path to a healthy future!" *Gabe Brown- Farmer and Author of Dirt to Soil*

"If you want to be successful and make a lot of money farming, you should only

accept advice from farmers who have achieved the same goals you are striving for. This book is your chance to glimpse how a very successful farmer and farming coach thinks differently about agriculture and food production."

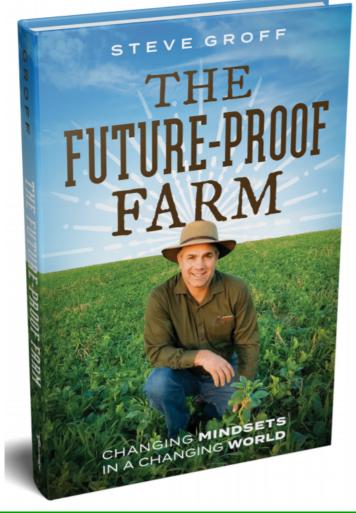
John Kempf- founder of Advancing Eco Agriculture

Whether you're a farmer, or someone else who wants to know more about regenerative farming, this book shows how cover cropping and related practices are beneficial for the soil and profitable for the farm business, at the same time.

Michael Rozyne, founder Red Tomato, and co-founder Equal Exchange

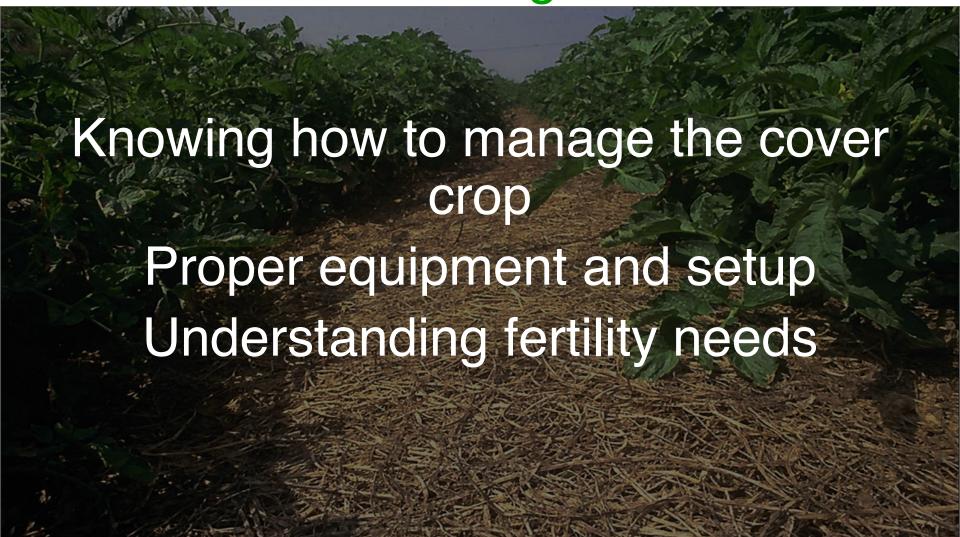
"The Future Proof Farm is a wakeup call to us as agricultural producers. It is time to open our eyes and meet our new bosses and start delivering what they are demanding." Keith Berns, Co-owner and Sales Manager Green Cover Seed

Coming Summer of 2020!

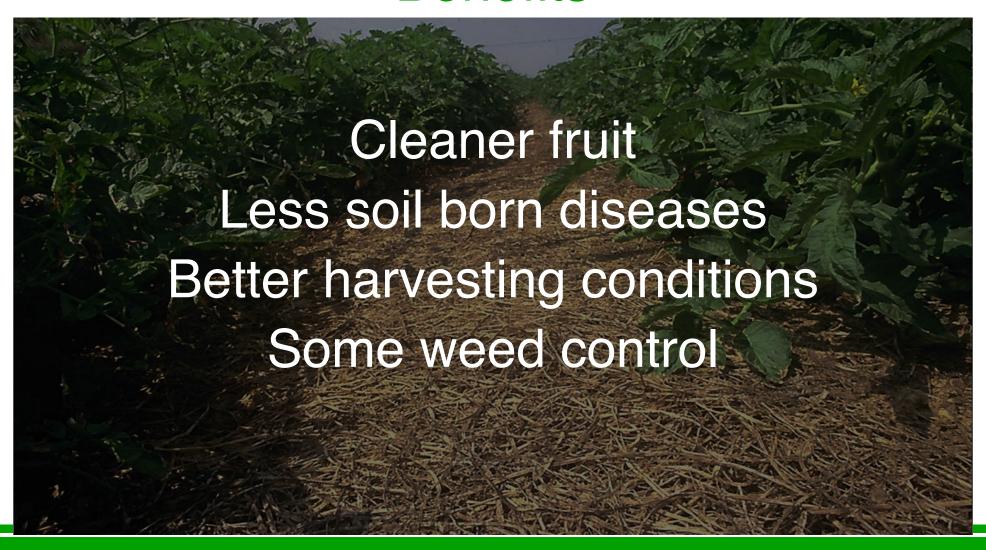




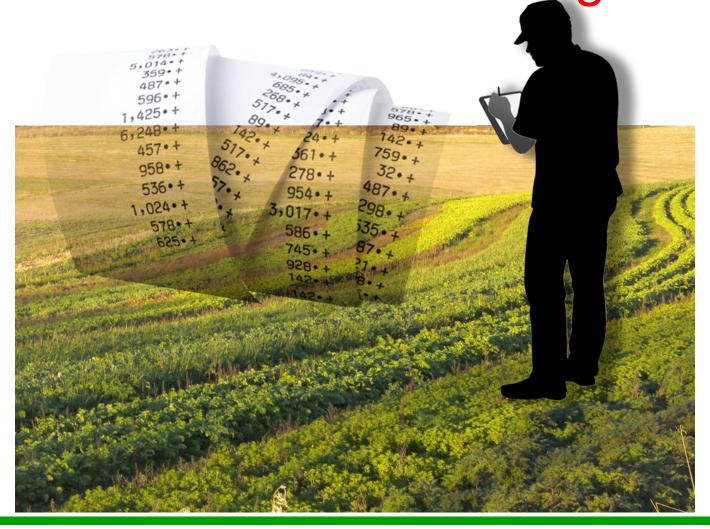
Challenges



Benefits



The "Profit" is in the Management!





Soil Health- It's our Future!





Increase your cover crop acreage by 10% WITHOUT costly mistakes!

- FARMERS trying cover crops for the FIRST TIME
- 2. FARMERS looking to take cover crops to the NEXT LEVEL
- 3. CONSULTANTS, TRAINERS OR EDUCATORS seeking a specific plan for their clients



SteveGroff.com

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