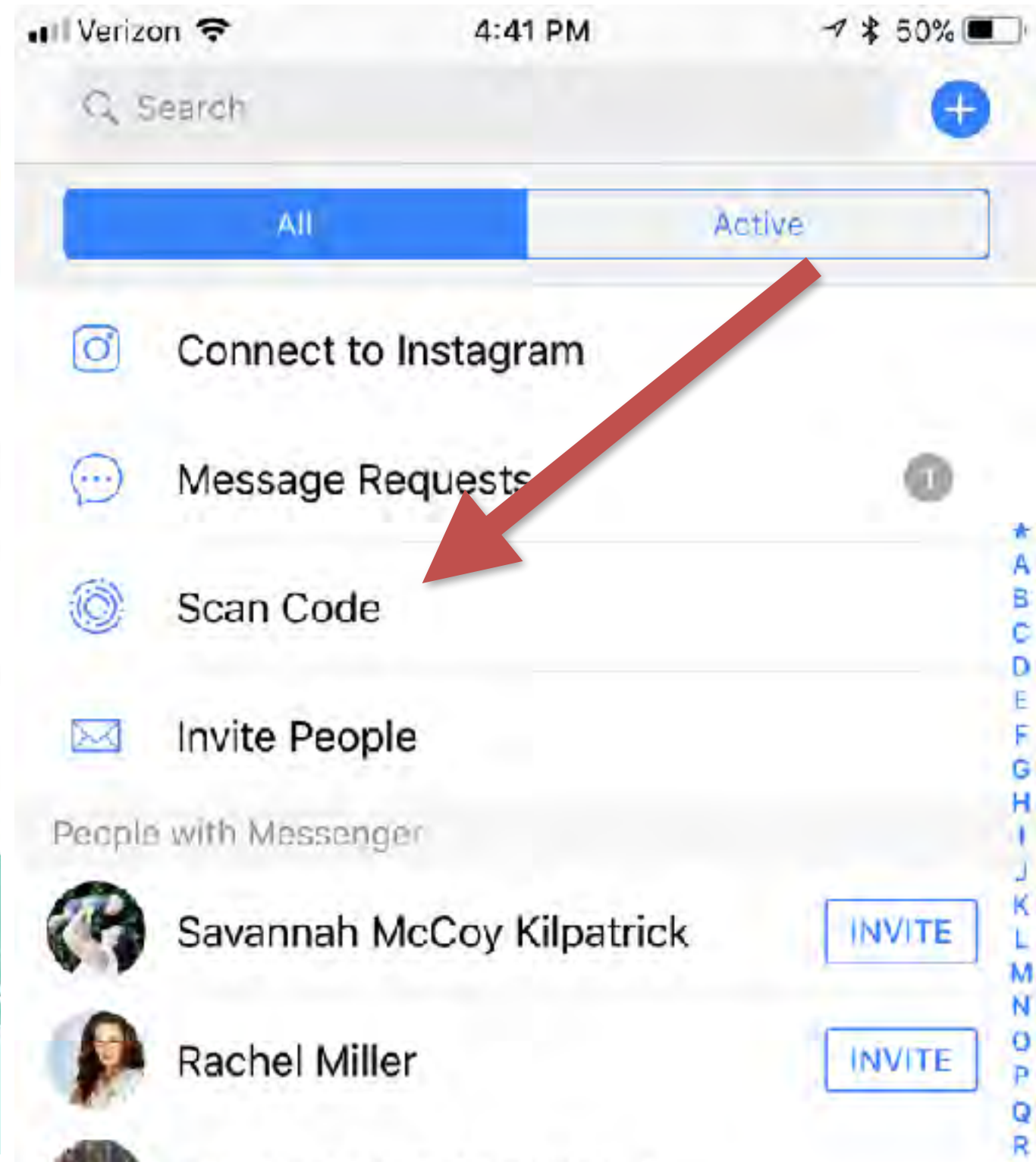
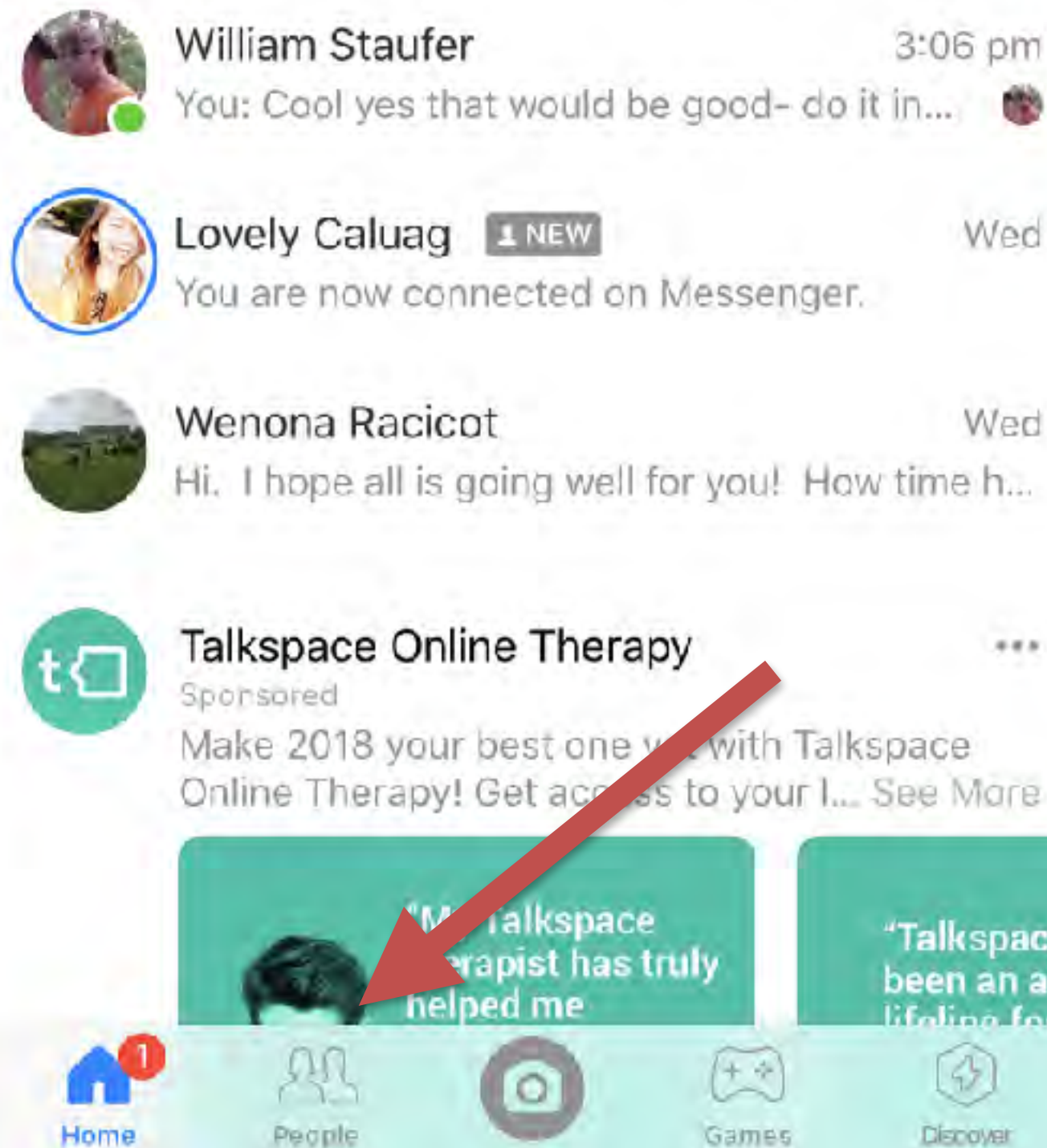


Field Preparation, Cultivation, and Fertility



Michael Kilpatrick
Kilpatrick Family Farm
In The Field
Consultants

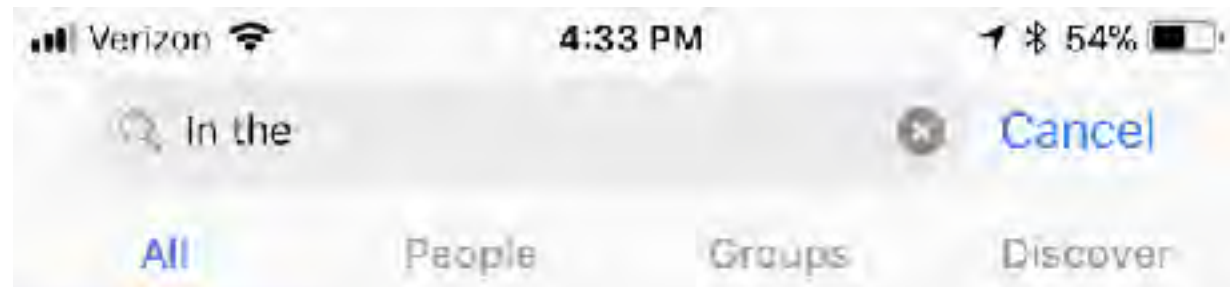
To get the slides!



To get the slides!



Want the Slides?



In The Field Consultants

@inthefieldconsultants

3.2K people like this including Jason Grauer and...
Consulting Agency

Our farmer training program pairs seasoned experts with farmers to help them minimize stres...



The CrossFit Games

@CrossFitGames



The Penny Hoarder

@thepennyhoarder

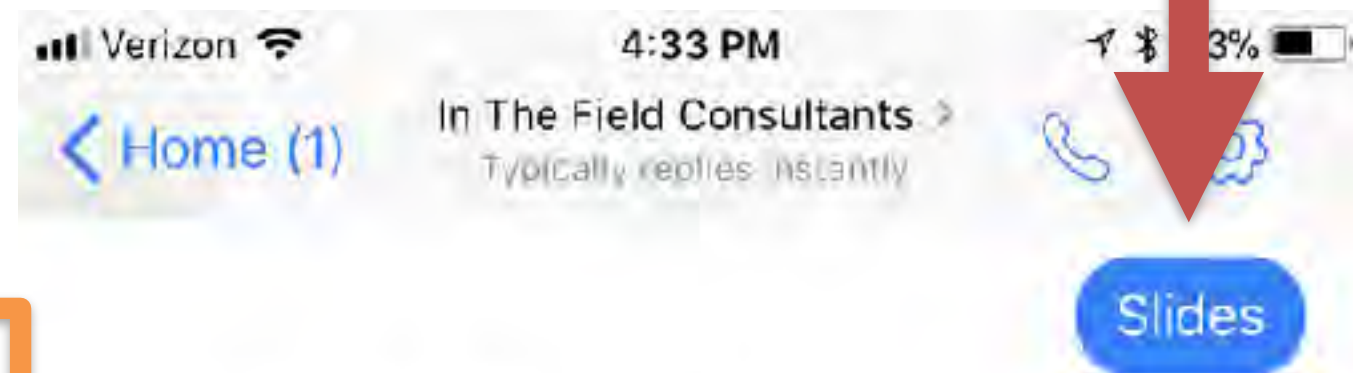


The Epoch Times

@epochtimes



The Great Pakistan



Hey! This is our Chatbot, Mighty Max!

Thanks so much for being interested in the slides from Michael's presentation at the Practical Farmers of IOWA conference!

We'll get you the slides within a couple of days.

Stay tuned! If you ever change your mind and want us to stop chatting, reply with STOP and i'll go away!



We were in Middle Granville, NY - an hour north of Albany, NY Zone 4b





1/3rd acre of Tunnels







Kilpatrick Family Farm
Your Source For Local, Naturally Grown Produce
www.kilpatrickfamilyfarm.com

4 Summer Markets



















Blackberries



In The Field Consultants

FARM FOR SALE

Who we are

What we do ▾

Blog

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WORK WITH US

Helping you build profitable and sustainable farms and communities

For most farmers, the majority of their attention is focused on their passion – farming – leaving little time to focus on building sustainable systems to make their business profitable. Our unique method pairs seasoned experts with farmers and gives them the tools to implement a proven system helping them grow their farms AND their profits.

Small Farms for Big Change



In the field learning opportunities





Tillage- Breaking ground

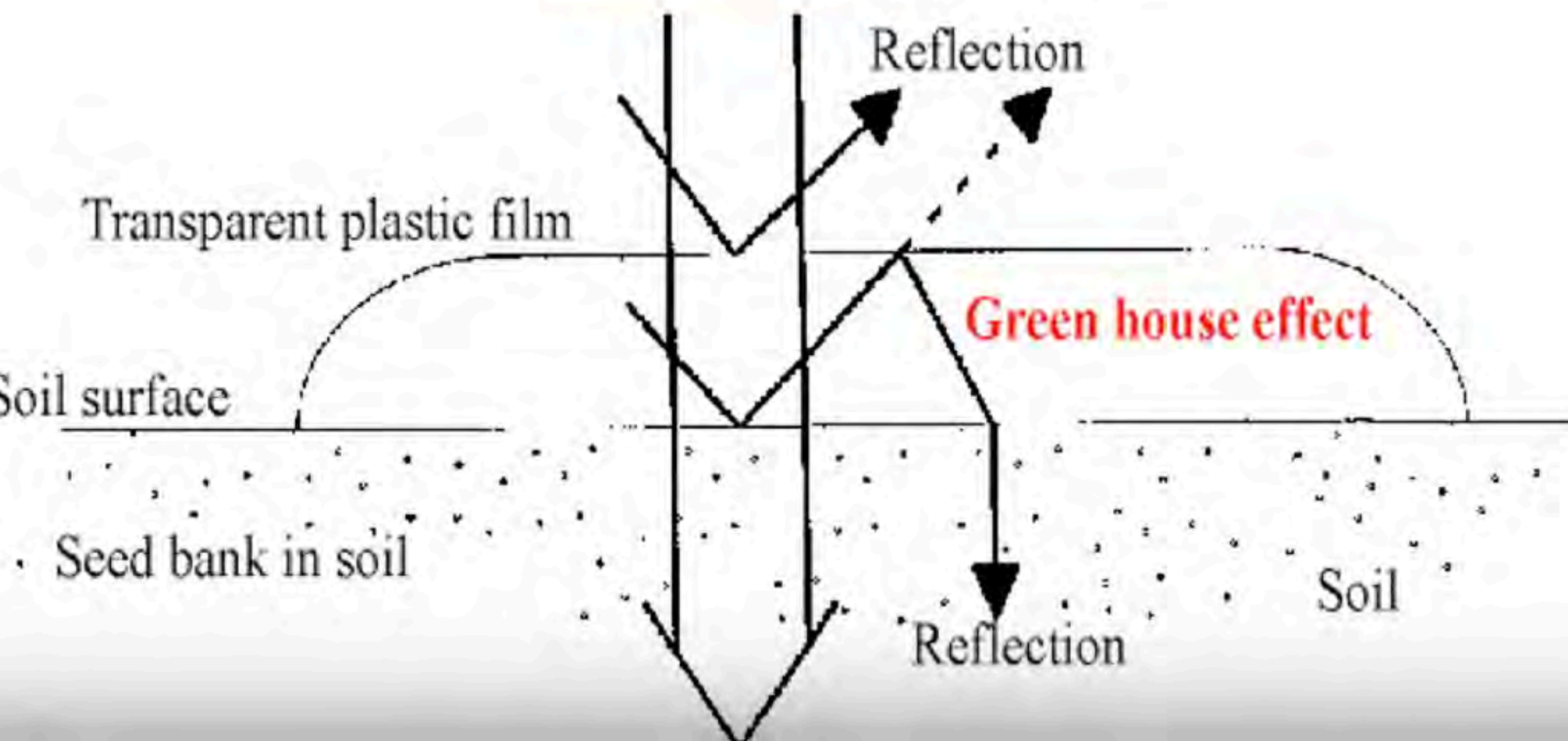








Solar radiation













Primary tillage



Meadow Creature broadfork



Fred Cain 5 Shank Tractor 3 Point Field Cultivator, Ripper, Tillage Tool







Subsoiler







Secondary tillage



Turning the power harrow



Using the power harrow



Cheap power harrow



Tilther- for mature systems











Adrian @Heritage Farm in Philadelphia



Perfecta



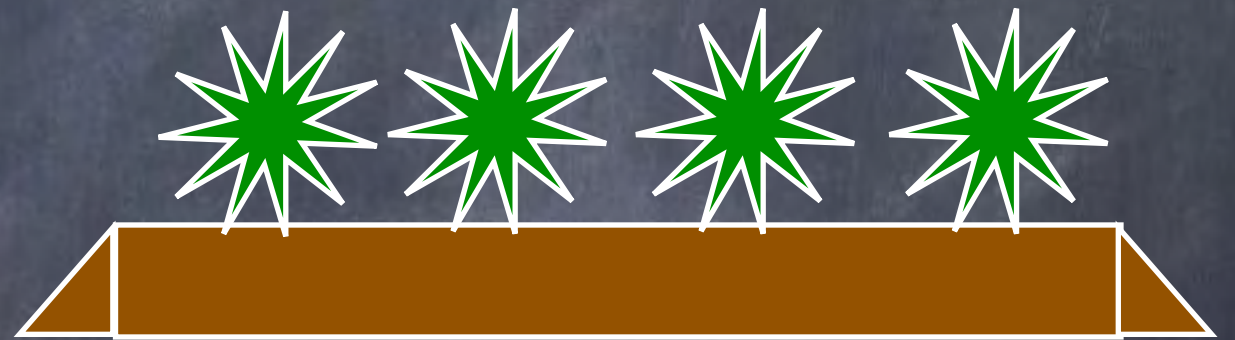
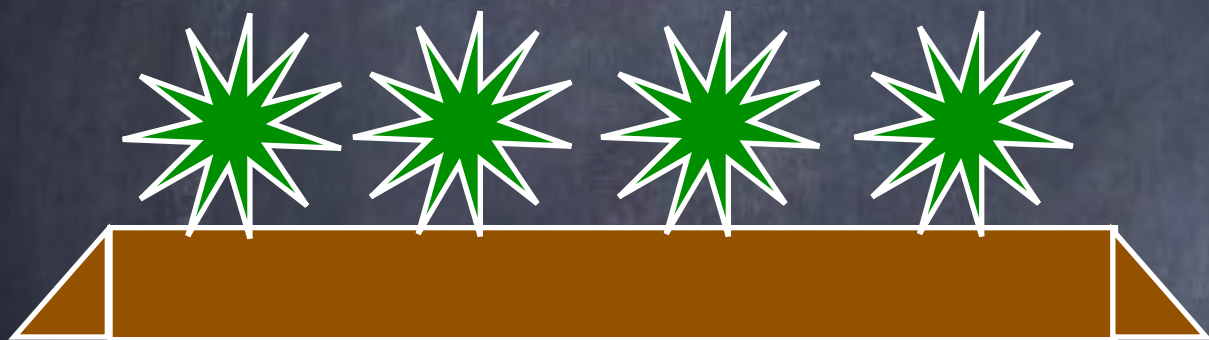
Bed Systems

- provide a standard system for vegetable production
- The wider the bed the less wheel tracks per acre
- Allow for machine planting, cultivation, harvesting, air flow

1 row system



4 row systems

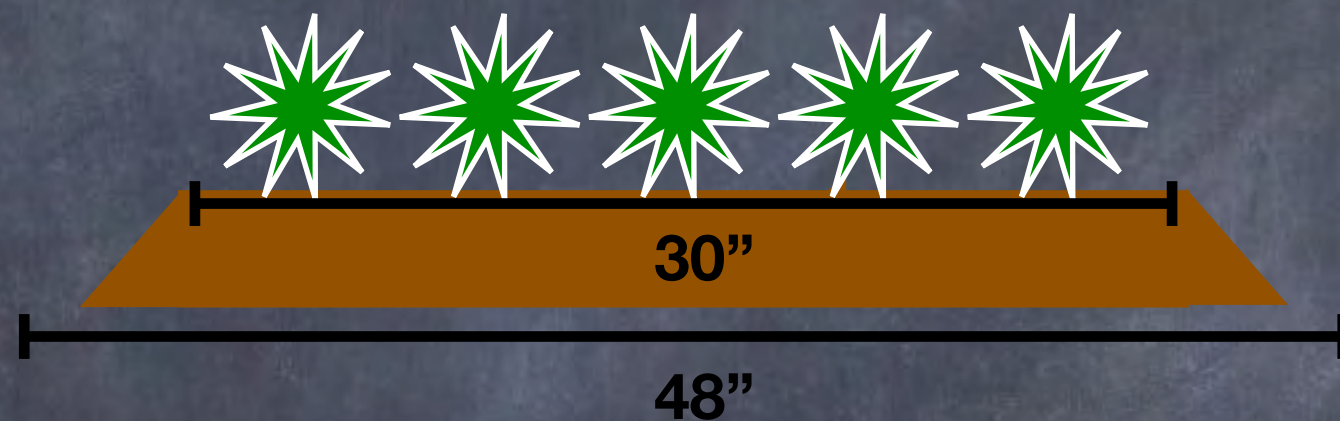


5 row system



- 5 rows for spinach, radish, salad, other small crops (9")
- 3 rows beets, carrots, beans (18")
- 2 rows broccoli, cauliflower, potatoes (36")
- 1 row tomatoes, artichokes (72")

30" Bed system popular



Raised vs flat?

Marking Beds













picture courtesy Johnnys Selected Seeds





Raising beds







Kennco powerbedder





Stone Burier- Forigo





Seeding

Calibration....









4 row seeder

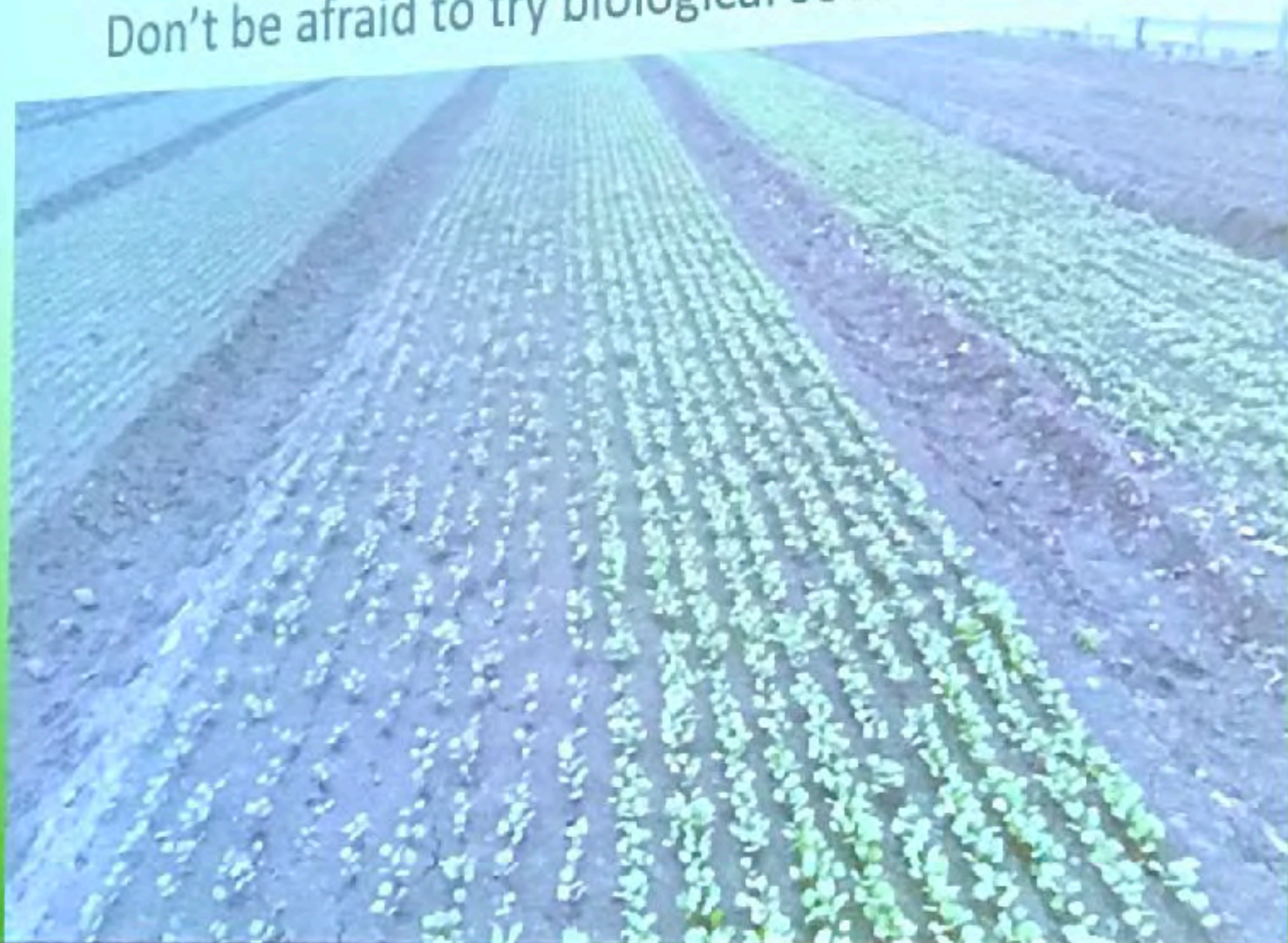


Picture courtesy Adam Lemieux

6 row seeder



Don't be afraid to try biological seed treatments



Transplanting















Picture Courtesy Pleasant Valley Farm



Paperpot Transplanter



Picture courtesy paperpot.co

Specialized trays





**1 hour vs
5 minutes**

Your weed free farm

Weed your soil-not your crop





Blind Cultivation





Flame weeder









Steaming



Search “Andre Cantelmo steaming youtube”

Cost of Steaming a 30x96 Greenhouse

- $3.5 \text{ Gal Fuel/Hour} \times 2 \text{ Hours/Set} \times 14 \times \$2.00/\text{Gal} = \$196$
- $\$4.00/\text{Gal} = \392
- $\text{Labor} = .33 \text{ Hours/Set} \times 14 \times \$17.50/\text{Hour} = \$80.85$
- Rent on Steamer \$140/House
- **Total Cost of Steaming in 2015 per 30x96 House = \$416.85**
- **Could Go as High as \$612.85 with \$4.00/Gal Fuel**

Two bad cats tineweeder



tine-weeder









Cultivation Tools





When to cultivate?











Hoes











Tilmor



Planet Jr Tractors

Video Courtesy Jason Weston

Search “planet jr farming” on Facebook







**What
could
you do
with a
weed
free
farm?**



Mulches

Why Mulch?

- ADDS ORGANIC MATTER!
- stops erosion
- reduces water requirements
- keeps workers and produce clean during harvesting
- Keeps worms happy







Biotello

- starts to breakdown within 2-3 months- gone by spring
- twice the cost of regular plastic(\$350 for 5000 ft)
- NOT OMRI- Certified in Europe, Canada
- has changed the way we farm- we are now adding organic matter easily while growing crops

























Rose Creek Farm, Selmer, TN