

Prepping and Planting Your Growing Beds...

Alan & Ricky Seiler
BetterTogether Farm
Davis, OK



Who's Here?

**Share a veggie you like to grow
and why it's one of your favorite.**



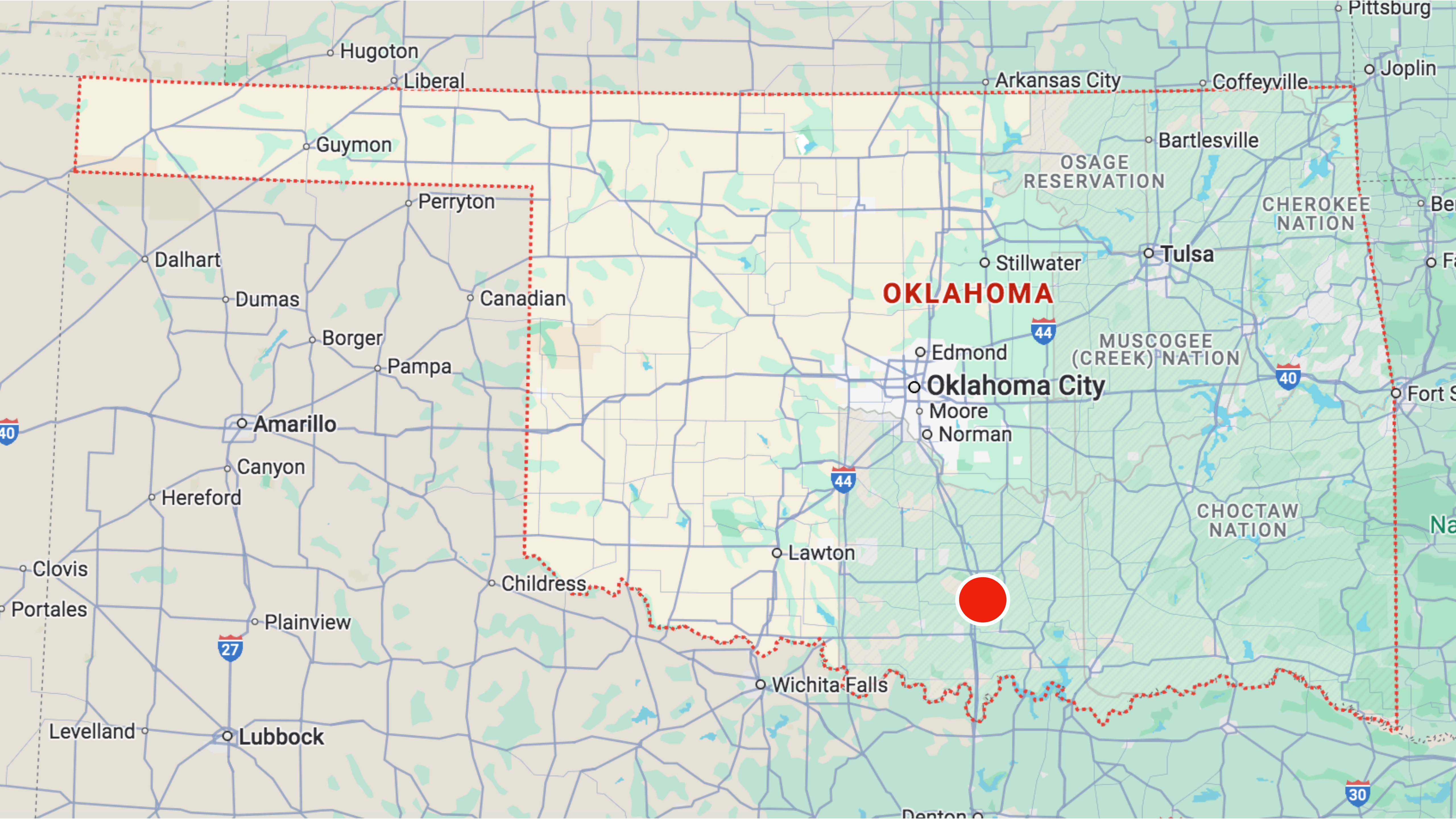


2009



2023

BETTER
TOGETHER
FARM



OKLAHOMA

Oklahoma City





**“Tipping the balance of nature
in favor of the plant.”**

–Elliot Coleman

5 Keys to “Tip the Balance”

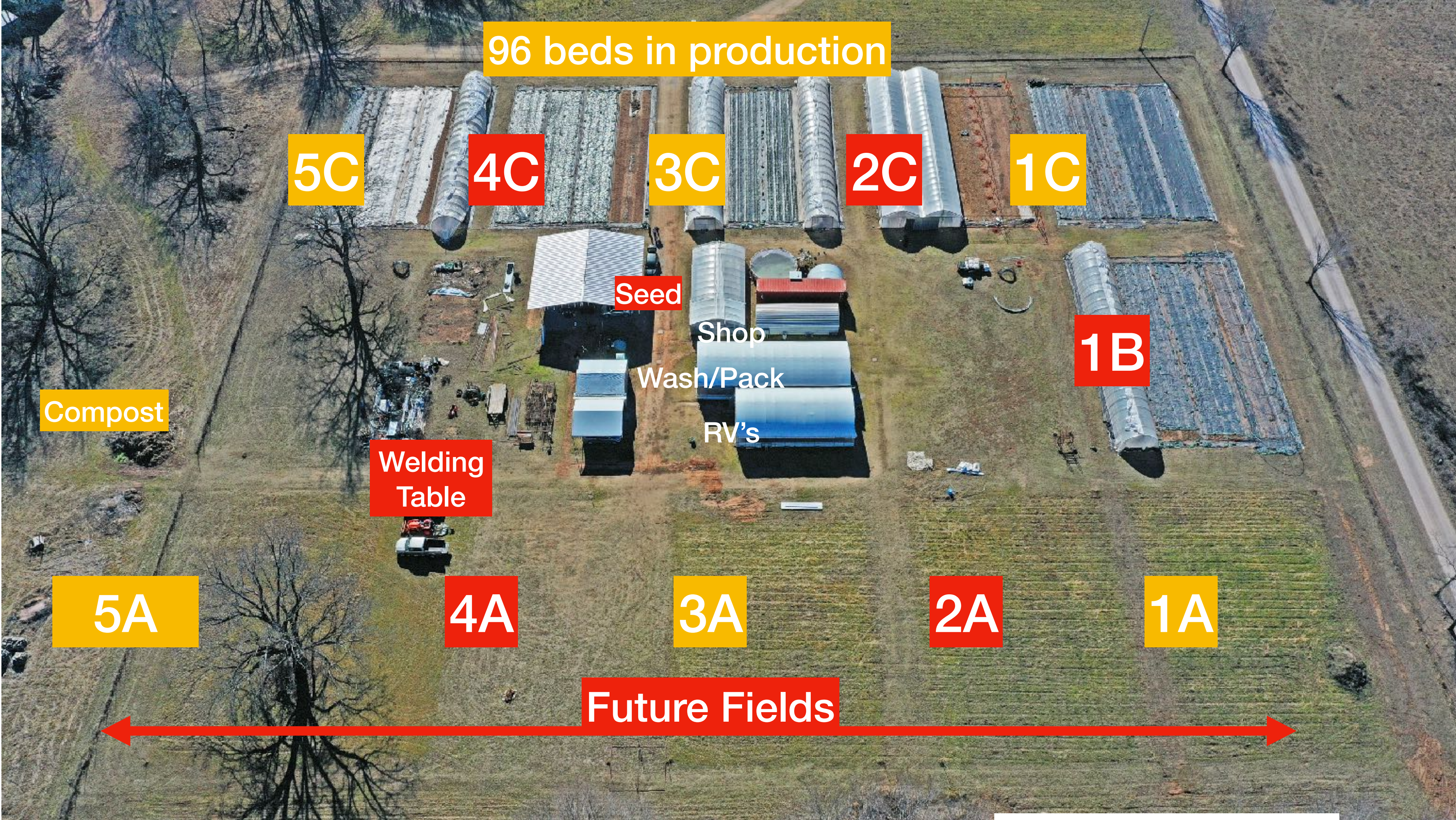
1. Standardize
2. Environment
3. Microbiology
4. Soil Chemistry
5. Water



Key 1: Standardize

1. Bed size
2. Irrigation
3. Field Covers
4. Calculations





96 beds in production

5C

4C

3C

2C

1C

1B

Compost

Seed

Shop

Wash/Pack

RV's

Welding Table

5A

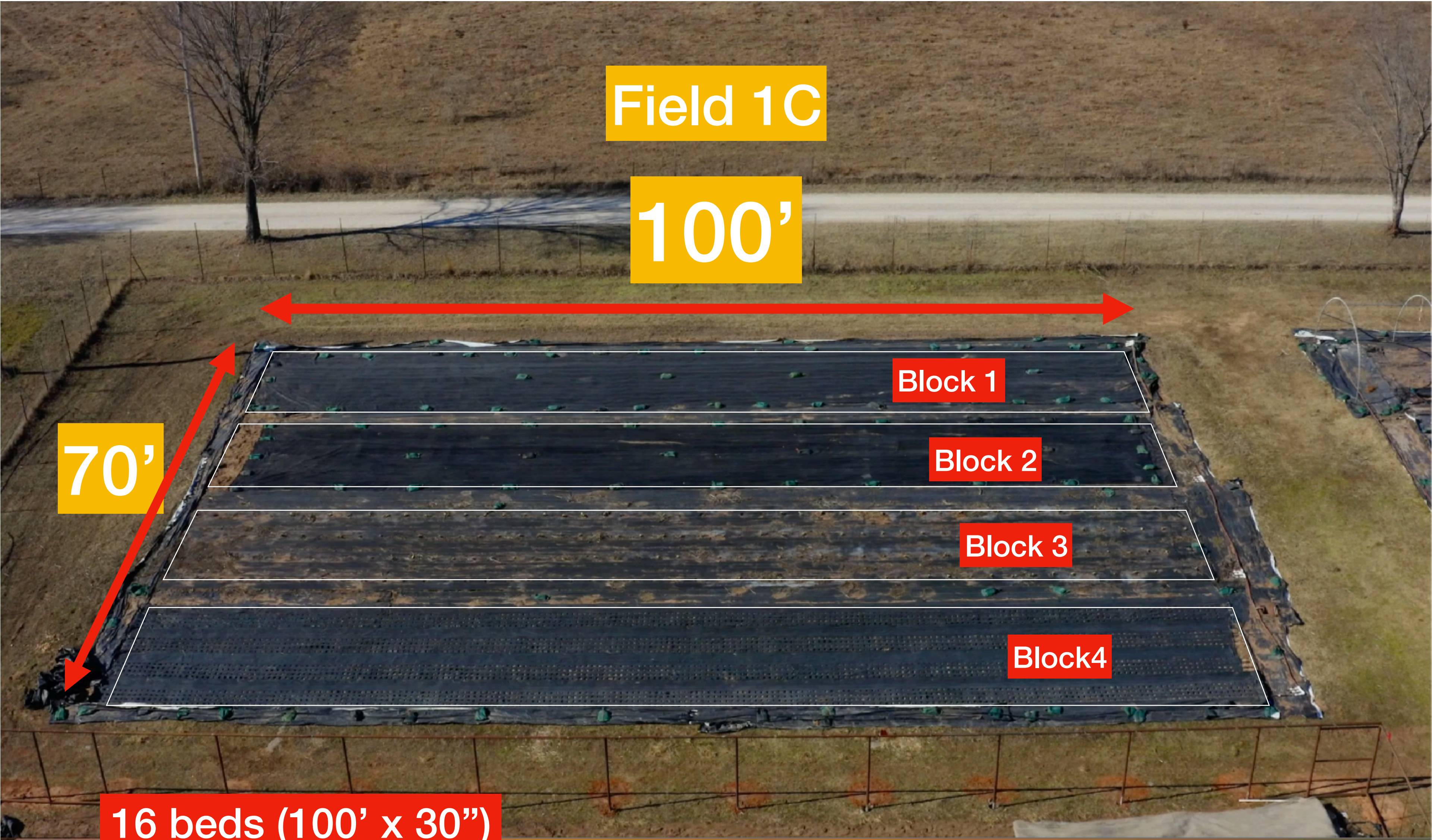
4A

3A

2A

1A

Future Fields



Field 1C

100'

70'

Block 1

Block 2

Block 3

Block 4

16 beds (100' x 30")
in each field



Field 3C

Block 4

4

3

2

1

30"

18"

30"

18"

30"

18"

30"



Toro Drip Tape

A long, arched tunnel covered in white plastic, with rows of plants inside. A person is visible in the distance. The tunnel is supported by a series of curved metal hoops. The ground is dark and appears to be soil. The lighting is warm, suggesting an indoor or covered environment.

Dewitt Row Cover

Nematode Treatment Drip Irrigation

Block: 4 - 100' x 30" beds

Frequency: Every other week alternate with Foliar

Water 4 Gallons

• Citric Acid 2 TBS (well water)
1 TBS (pool water)

O1-YS 4oz 8 TBS

Ultra 2oz 4 TBS

Agri-Q 2oz 4 TBS

MicroPak 3 TBS

Spectrum 1/4 tsp

~~Spectrum PSB~~ 1/3 tsp

For PrePlant Drench, Soil Block Spray, and 1st
Drip Irrigation:

Add 3.5 tsp MycoGenesis & 1/8 tsp JABB to mix
1/3 tsp Spectrum PSB

O1-YS and Agri-Q are double rate compared to label instructions
8x

Key 2: Environment

1. Right Plants / Right
Time

2. Vapor Pressure Deficit



**Cool
Loving
Crops**
(45°-75°)

Beets
Broccoli
Cabbage
Carrots
Swiss Chard
Kale
Lettuce
Onions
Radishes
Spinach
Turnips

**Warm
Loving
Crops**
(55° - 85°)

Bell Peppers
Eggplant
Corn
Tomatoes
Cucumbers
(Thin Skin)

**Hot
Loving
Crops**
(75° - 100°)

Okra
Squash
Zucchini
Sweet Potatoes
Green Beans
Hot Peppers
Cantaloupe
Watermelon
Winter Squash
Black-eye Peas

Cancel Add

Bar Harbor

73°

Mostly Sunny
H:74° L:59°

Partly cloudy conditions from 6PM–7PM, with showers expected at 7PM.

Now	3PM	4PM	5PM	6PM
				
70°	70°	70°	70°	64°

Wi-Fi Calling 1:51 PM

Davis

102°

Sunny
H:105° L:76°

⚠ Heat Advisory
National Weather Service:
Heat Advisory in Murray
County.

[See More](#) >

[🕒 HOURLY FORECAST](#)

July 8, 2022

Okra

Right Time & Right Place

- Germinates best Temps 70-90
- Evening Temps of 60 or higher
- Day Temps 85 or higher
- Grows even at over 100



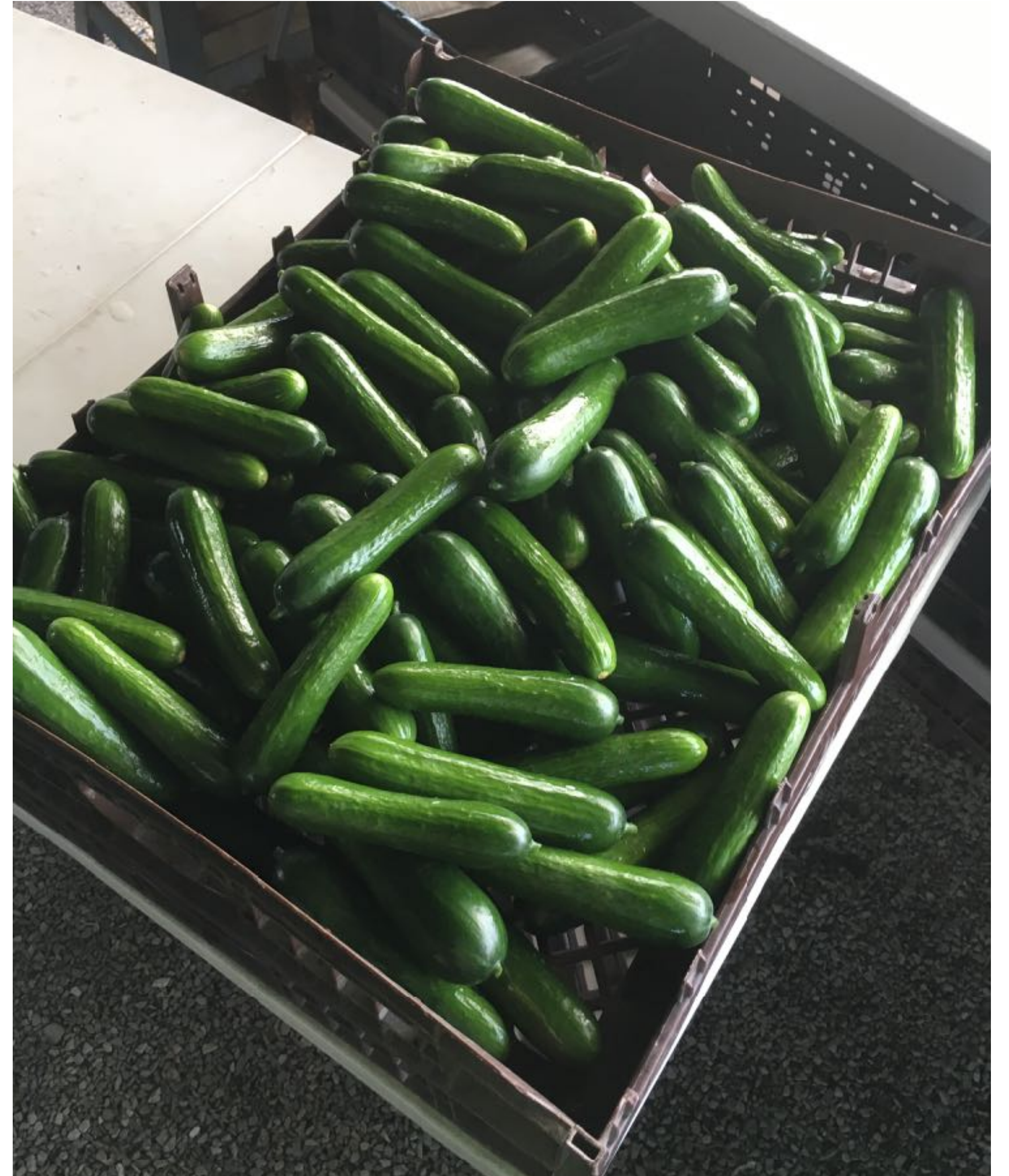
Spinach

Right Time & Right Place

- Germinates best Temps 50-70
- Humidity 50-70%
- “Bolts” Day Temps 80 or higher



Our Cucumber Journey







Temp 102°
RH 24%

Socrates Cucumbers
July 8, 2022

Key 3: Microbiology

1. Decomposers
2. Miners
3. Road Builders
4. Doctors



1. Decomposers

Microbes that live off dead organic matter such as compost, soybean meal, Alfalfa meal etc..



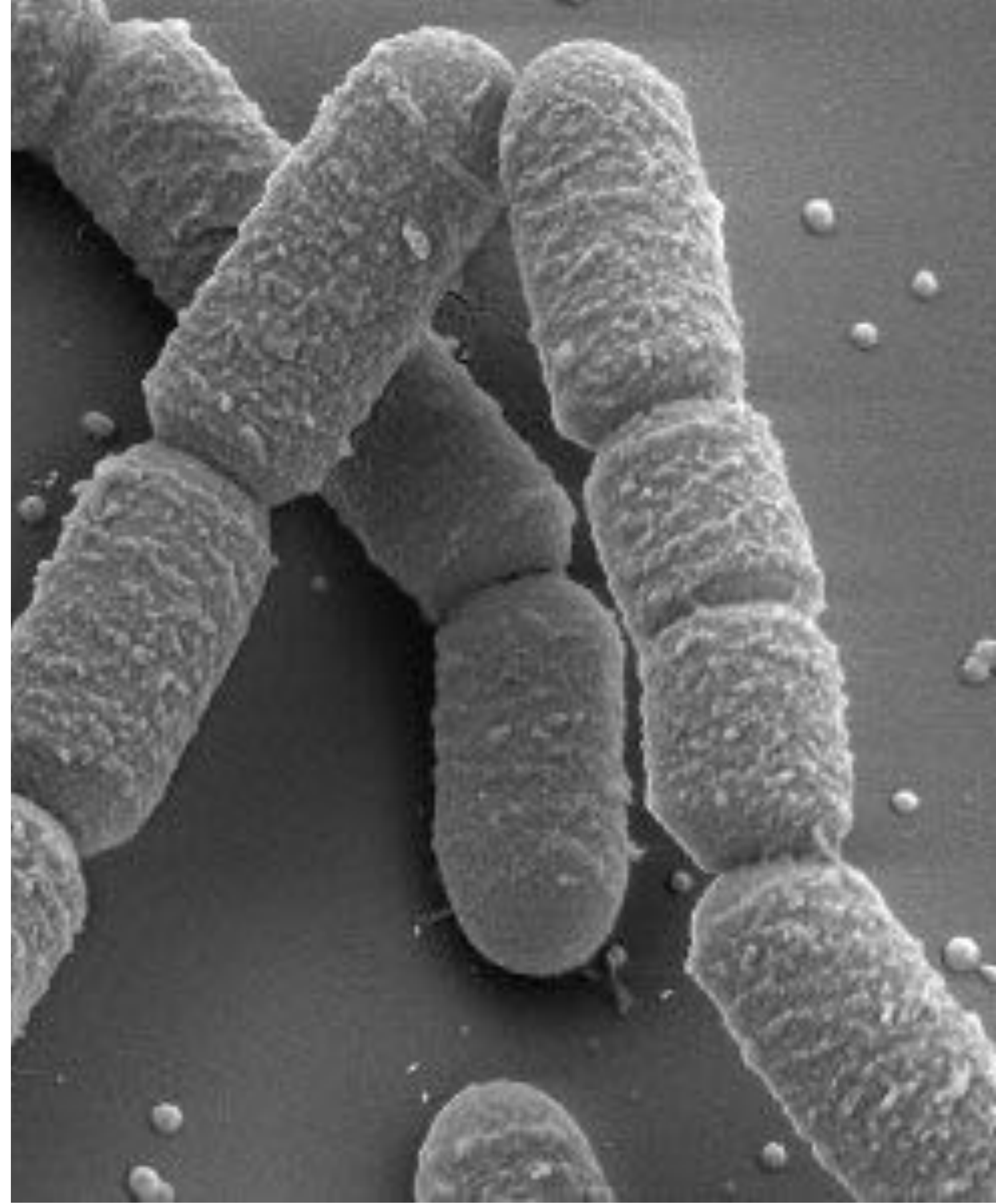
2. Miners

Microbes with the capacity to go after the mineral content of the soil.

Copper

Zinc

Phosphorus etc...



3. Road Builders

Mycorrhizal Fungi
Benefit 80-90% plants

Don't work for:
Beet Family
Broccoli Family



4. Doctors

Microbes that are used in combination with a speciality amendment for acute care.

Our Parasitic Nematode Crisis

Nematode Treatment Drip Irrigation
Block: 4 - 100' x 30" beds
Frequency: Every other week alternate with Foliar

Water		4 Gallons
Citric Acid		2 TBS (well water) 1 TBS (pool water)
O1-YS	4oz	8 TBS
Ultra	2oz	4 TBS
Agri-Q	2oz	4 TBS
MicroPak		3 TBS
Spectrum		1/4 tsp
Spectrum PSB		1/3 tsp

For PrePlant Drench, Soil Block Spray, and 1st Drip Irrigation:

Add 3.5 tsp MycoGenesis & 1/8 tsp JABB to mix
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Current Microbiology



Microbiology

Product:

Supplier

Mycogenesis

Advancing Eco Ag

Spectrum

Advancing Eco Ag

Spectrum PSB

Advancing Eco Ag

SPE 120 - ES

JABB of the Carolinas

Current Bio Stimulants



Bio Stimulants

Product:

Supplier

O1YS

Organisan

Agri Q

Organisan

MicroPak

Advancing Eco Ag

ULTRA

Agrigro

Key 4: Soil Chemistry

1. How we test
2. How we apply



How We Test

1. Soil Probe Demo



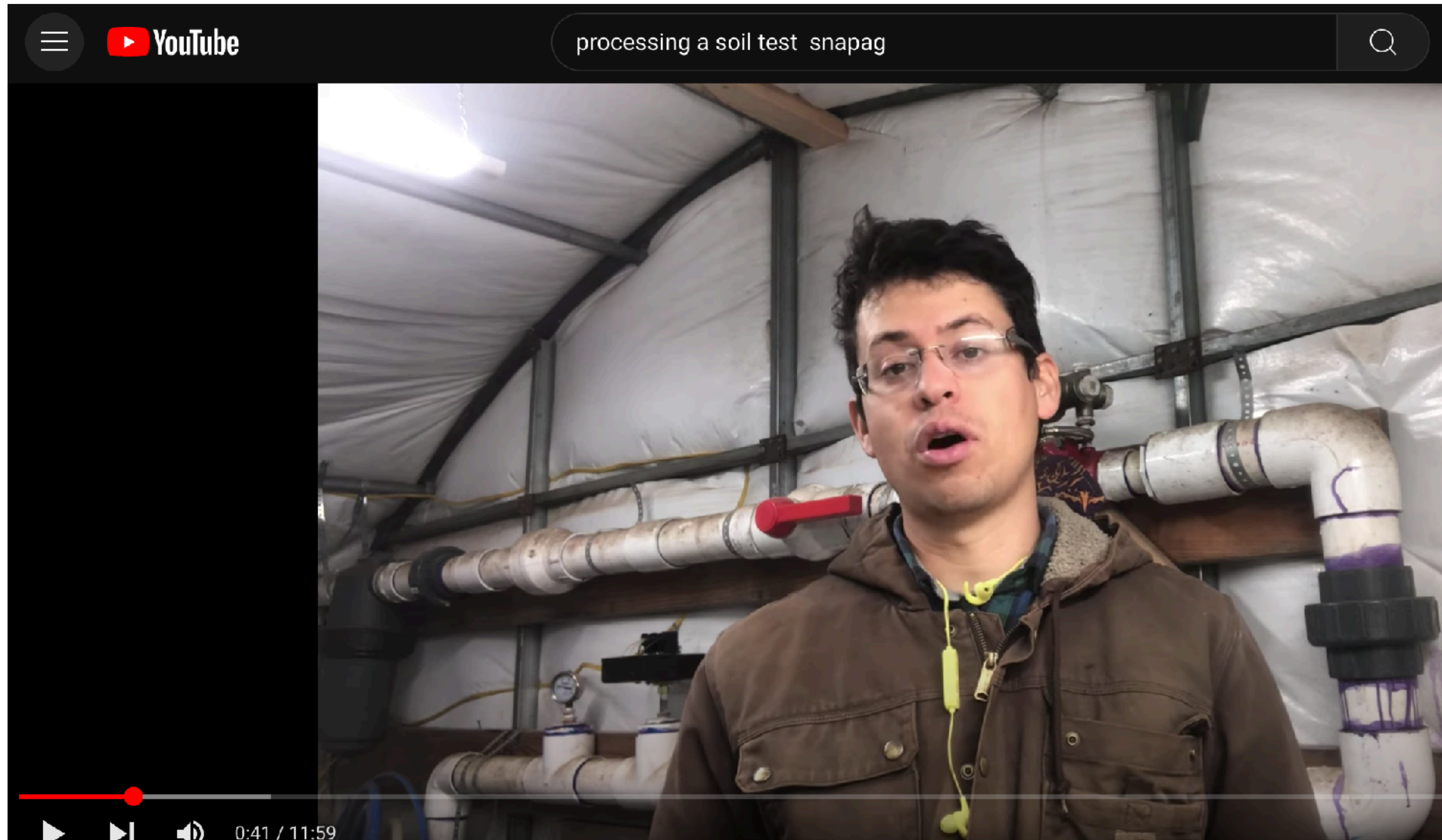
Roll over image to zoom in

What we test

1. Regular Soil Test
(baseline)
2. Saturated Paste
Analysis (management)



YouTube - Processing Soil Test Snapag



Nitrogen

1. On the Farm 15 minute Test



YouTube - Nitrogen Test Snapag

The image shows a YouTube video player interface. At the top left is the YouTube logo. The search bar contains the text "snapag nitrogen test". The video content shows a man with glasses and a green beanie, wearing a blue and green plaid shirt, speaking and gesturing with his hands in a kitchen setting. The video player controls at the bottom include a play button, a progress bar showing 0:09 / 5:31, a volume icon, and a full-screen button.

Soil Amendments

- Soybean Meal (N)
- Bone Char (P)
- Potassium Sulfate (K)
- Magnesium Sulfate
- Calcium Sulfate
- Micronutrients...



Email:
adventfarmers@gmail.com

Ask for Discord link

How We Apply

1. 5 gallon bucket
2. Lightly till



How We Apply

Mantis 7566 Tiller



Key 5: Water

1. Water Quality Test
2. Be Ready to Roll
3. Injecting Microbiology and Soil Chemistry



Key 5: Water

Irrigation Water Quality
Test

Servitech.com



Be Ready to Roll

- Have the water strategy in place before you plant or seed
- Right water application





Toro Drip Tape

A photograph of a Hunter MP Rotator irrigation system in operation. The system consists of a central pivot point with multiple arms extending outwards, each ending in a wheelhead with multiple nozzles. Water is being sprayed from the nozzles in a circular pattern over a field of green crops. The field is covered with black plastic mulch. In the background, there are trees and a large, curved, covered structure, possibly a greenhouse or tunnel. The sky is clear and blue.

Hunter MP Rotator



**DIG 700 Series
Mini Sprinkler**



Netafim *SpinNet* Sprinkler



DIG Timer

Mazzei Injector



4 - 100' beds



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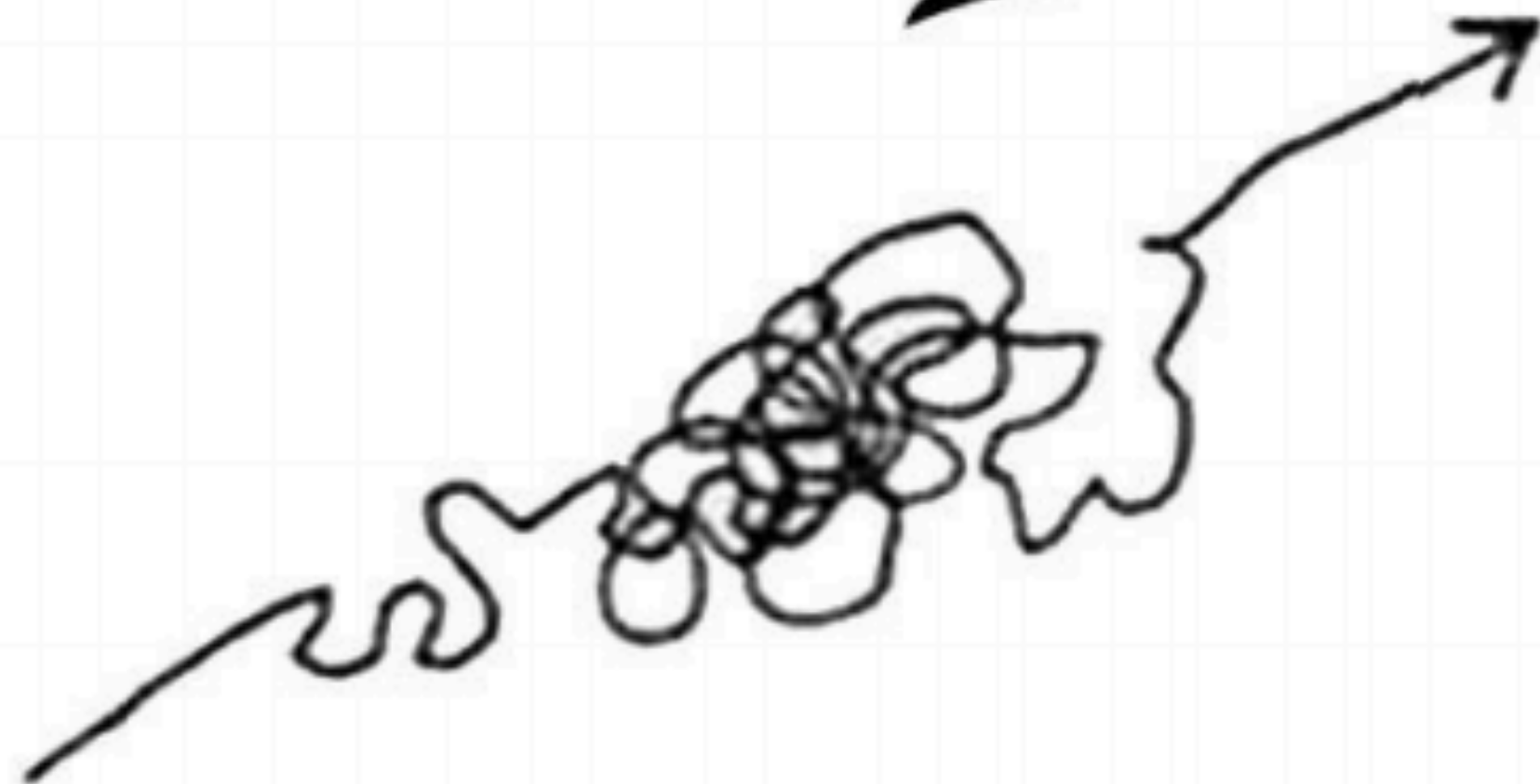


Success



what people think
it looks like

Success



what it really
looks like