The Citizen Science Soil Health Project:

Helping you PROVE you are improving your Soil Health



The Citizen Science Soil Health Project: **A FREE annual Soil Health Test** every year The first one's free. for 10 years

SOIL HEALTH TEST

Haney Soil Test



Soil Respiration/10

- + Water-Extractable Organic Carbon/50
- + Water-Extractable Organic Nitrogen/10

= Soil Health Score

Haney Soil Test

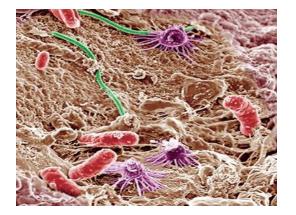
Number of Soil Microbes

- + Their Food
- + Nitrogen they produce

= Soil Health Score

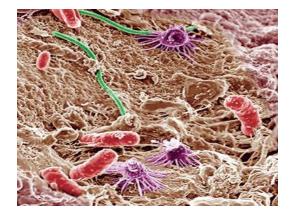


Healthy Soil



LOTS of Soil Microbes

Healthy Soil





LOTS of Soil Microbes

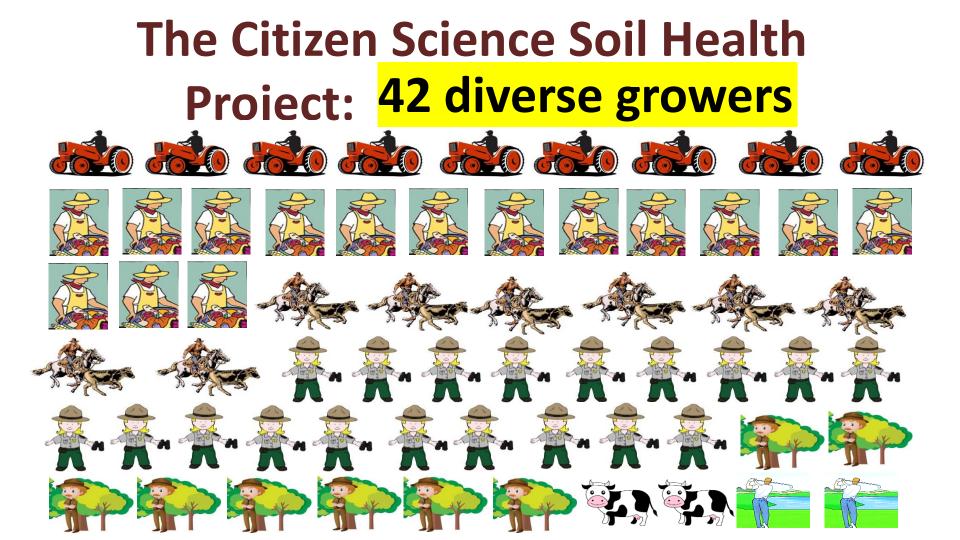
LOTS of Organic Matter

Healthy Soil



LOTS of Soil Microbes

LOTS of Organic Matter LOTS of Nitrogen

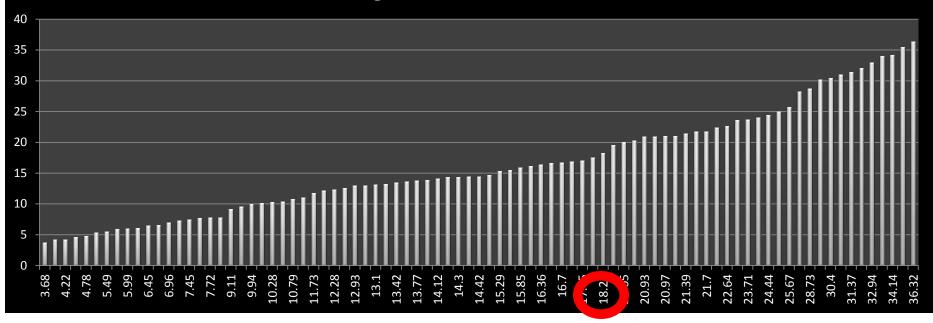


The Citizen Science Soil Health Project: A 10 year commitment

I think Reducing tillage improves my Soil Health.	I think Improving Drainage improves my Soil Health.	I think Micro- nutrients improve my Soil Health.	I think Cover- crops improve my Soil Health.	I think Key-line plowing improves my Soil Health.	I think Livestock improves my Soil Health.

Range of Soil Health Scores: 3 to 36 Median: 14.42

Range of Soil Health Scores



"In Colorado, a score greater than 18 is rarely attainable." Ward Laboratory

Organic or Conventional: Which has better Soil Health Scores?

Conventional



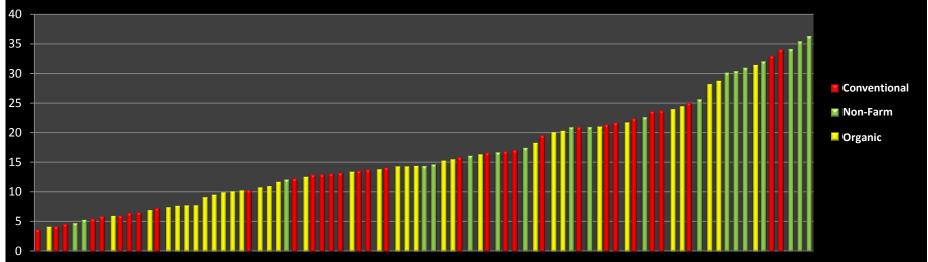
Organic

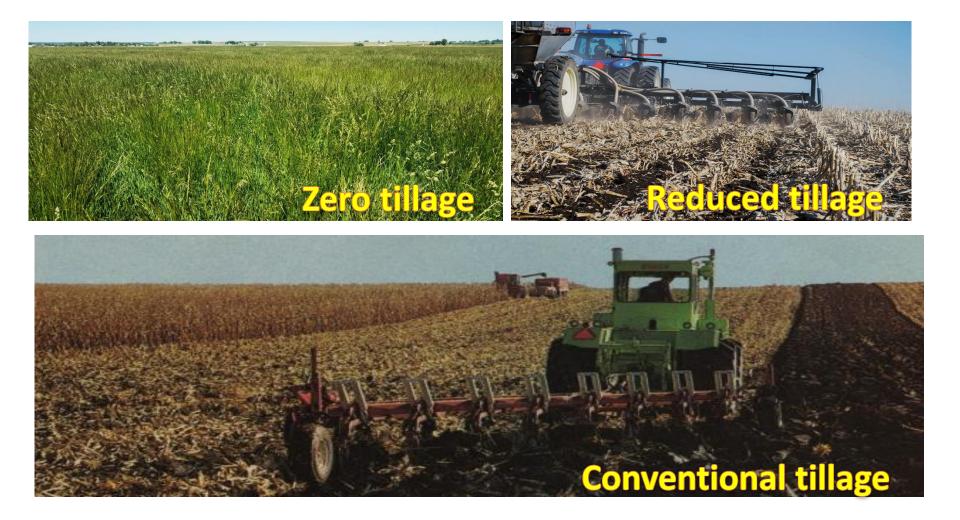
Non-Farm



Median Soil Health ScoresConventional13.67Organic13.62Non-Farm20.97

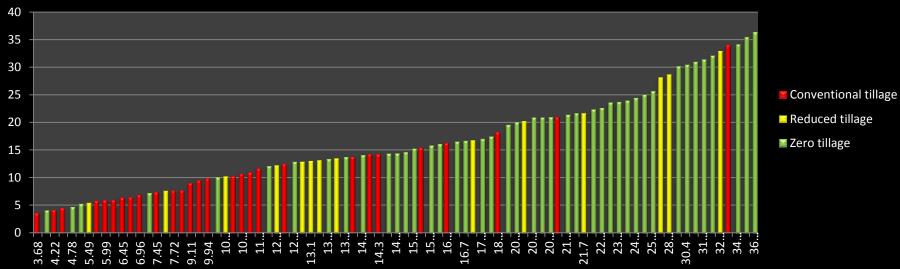
Soil Health Scores of Conventional, Organic & Non-Farm





Median Soil Health Scores
Conventional tillage9.76Reduced tillage13.39Zero tillage20.05

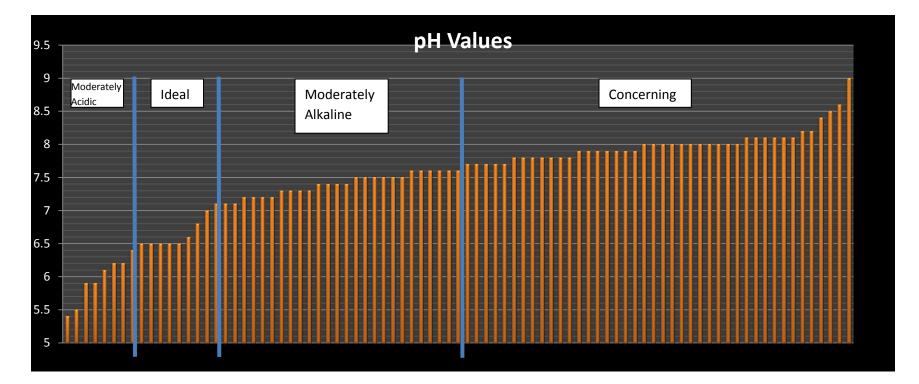
Soil Health Scores of Conventional, Reduced and Zero Tillage



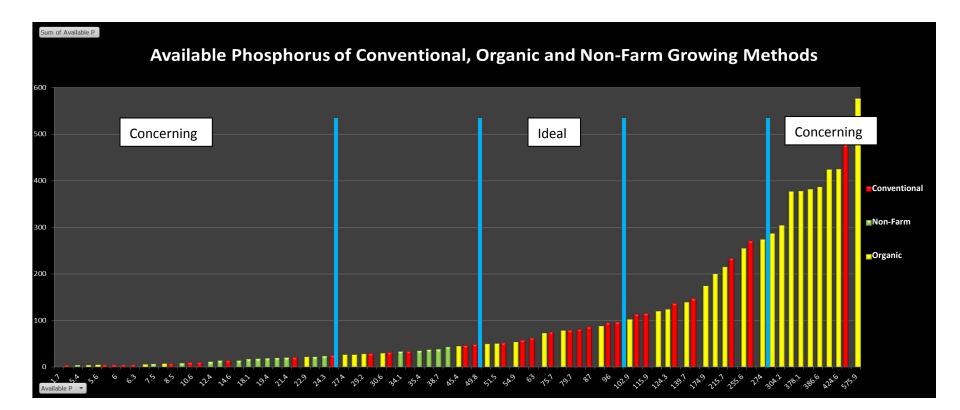
Irrigation improves Soil Health Scores

Tillage	Irrigated	Dryland
Zero Tillage	20.94	17.26
Reduced Tillage	15.21	7.88
Conventional Tillage	9.94	6.53

(Almost) Everyone Struggles with pH.



Φ Phosphorus = Ψ Water Quality



The Citizen Science Soil Health Project:

Want to join?

Call or email Elizabeth Black! 303-449-7532 Elizabeth@ ElizabethBlackArt.com

