# 5 Ways to Design Your Market Garden for Success

Presenter: Ricky Seiler











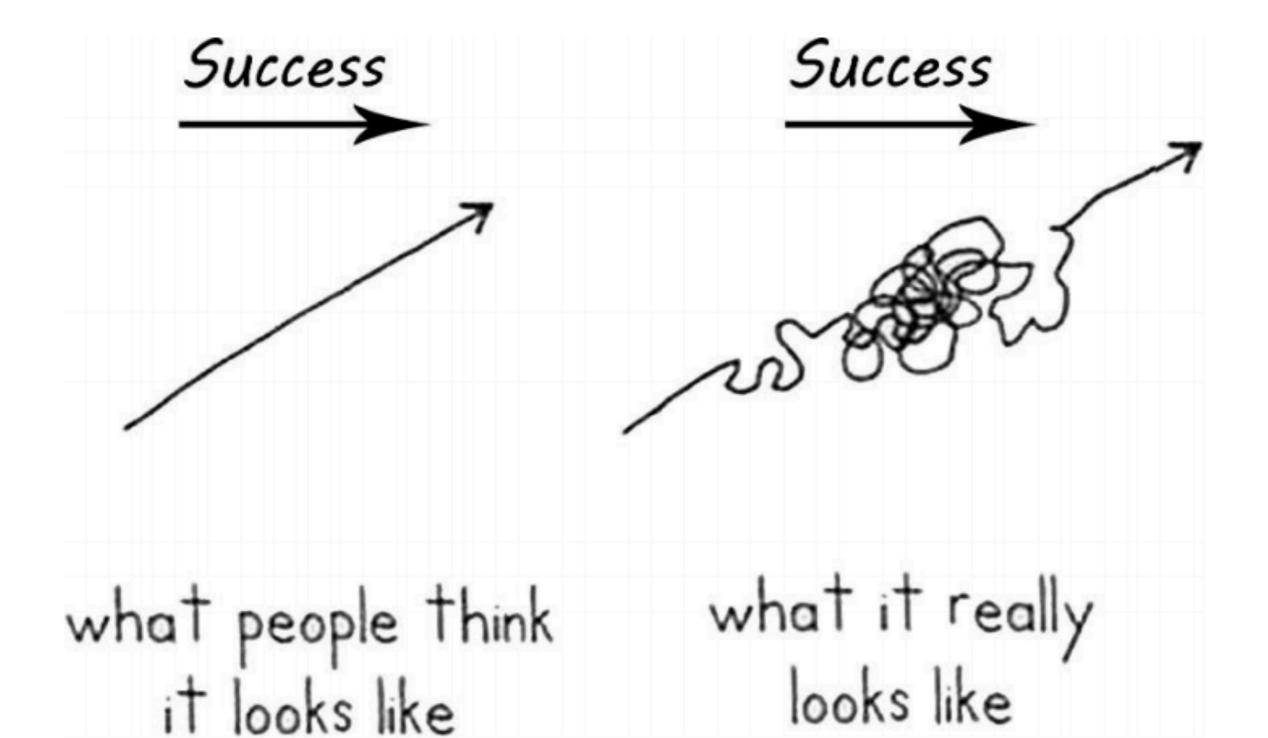


...Farmers should not think that agriculture is a business that is not elevated enough for their sons. Agriculture should be advanced by scientific knowledge. Farming has been pronounced unprofitable.

People say that the soil does not pay for the labor expended upon it, and they bemoan the hard fate of those who till the soil. In this country (Australia) many have given up the idea that the land will pay for working it, and thousands of acres lie unimproved.

But should persons of proper ability take hold of this line of employment, and make a study of the soil, and learn how to plant, to cultivate, and to gather in the harvest, more encouraging results might be seen.

Many say, "We have tried agriculture, and know what its results are," and yet these very ones need to know how to cultivate the soil, and to bring science into their work.... (ST August 13, 1896, par. 8)





# #1: Soil

#### Google: Web Soil Survey



You are here: Web Soil Survey Home



- National Cooperative Soil Survey (NCSS)
- Archived SoilSurveys
- Status Maps
- Official Soil SeriesDescriptions (OSD)
- Series Extent Explorer
- Geospatial DataGateway

The simple yet powerful way to access and use soil data.



#### Welcome to Web Soil Survey (WSS)



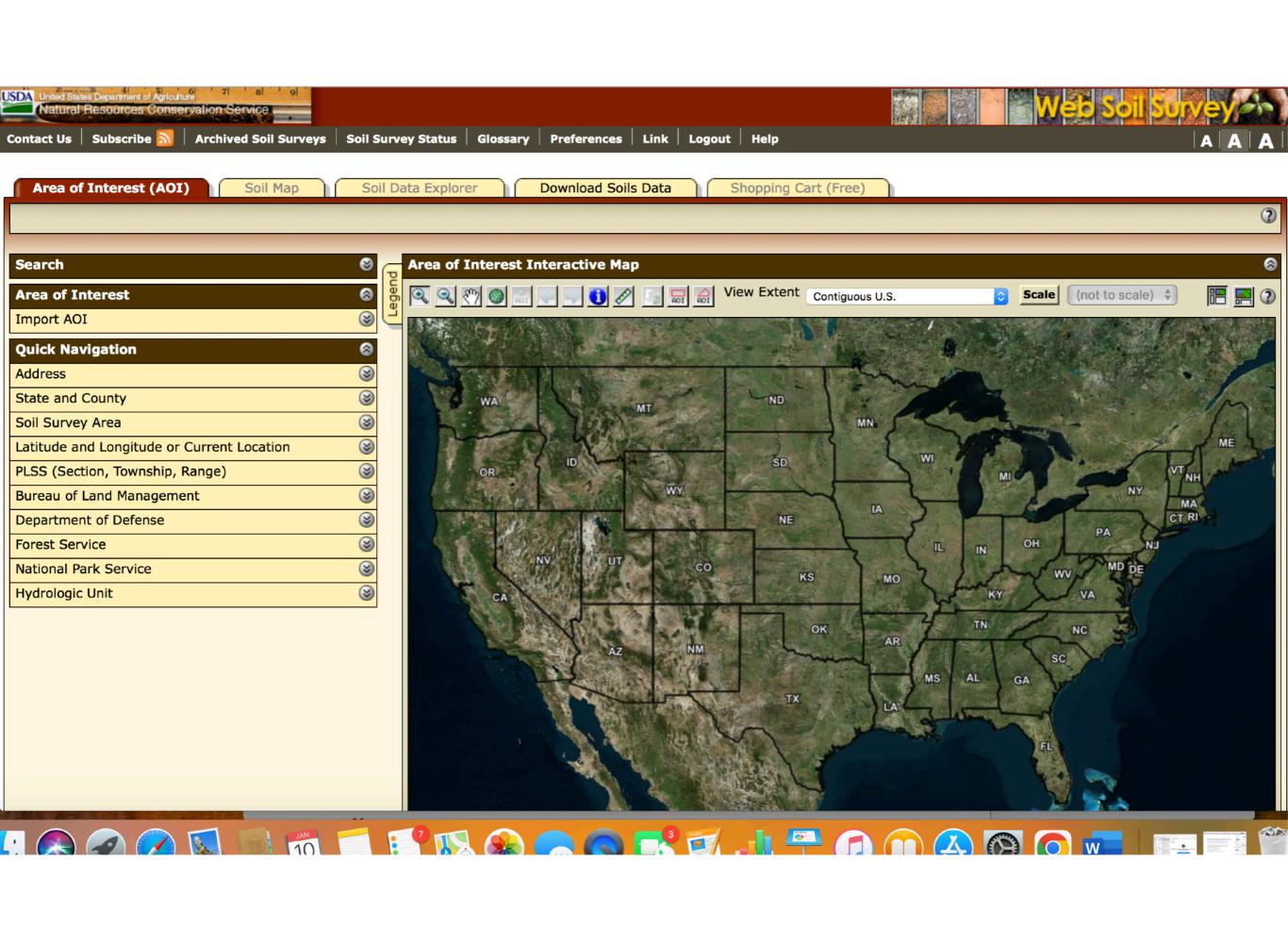
Web Soil Survey (WSS) provides soil data and information produced by the National Cooperative Soil Survey. It is operated by the USDA Natural Resources Conservation Service

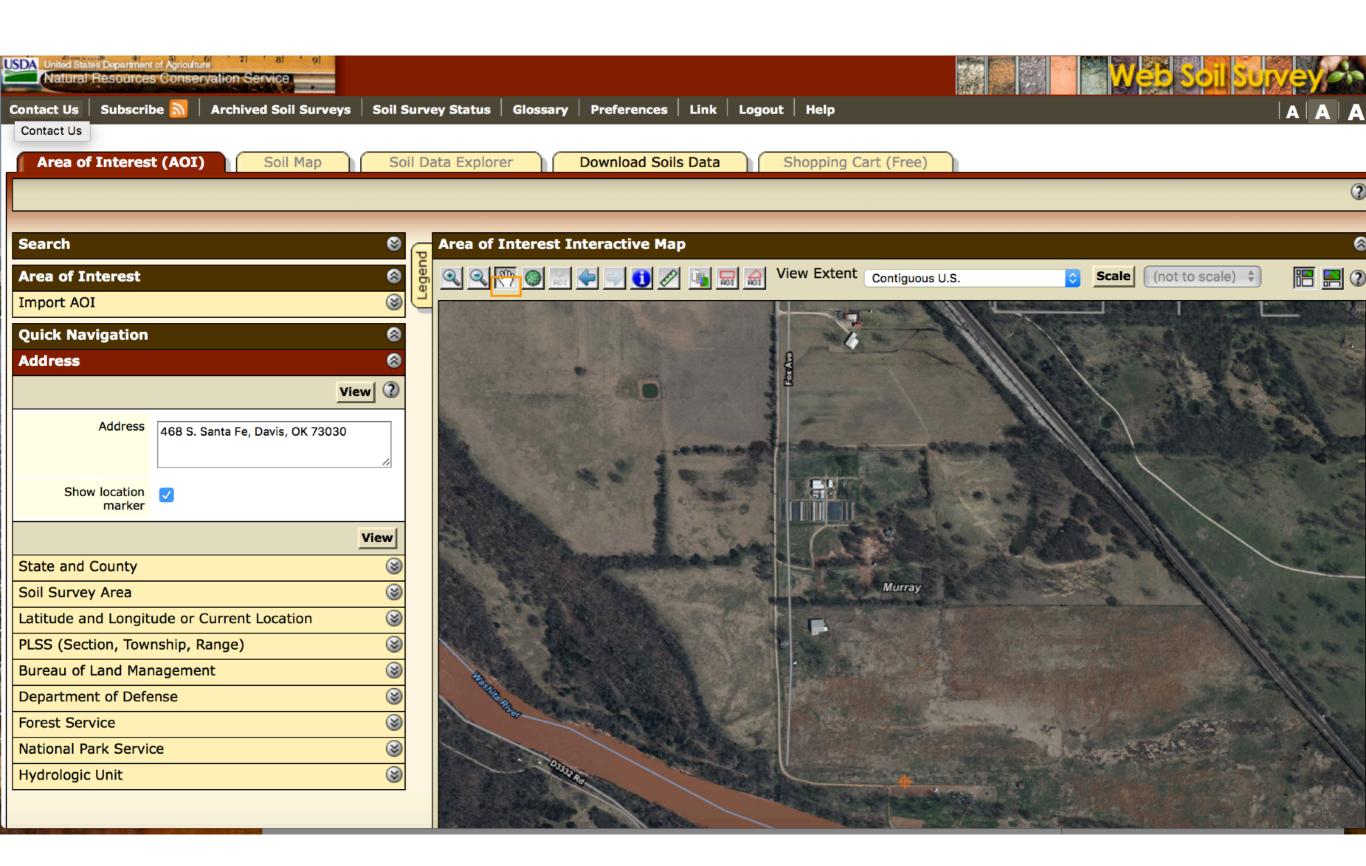
(NRCS) and provides access to the largest natural resource information system in the world. NRCS has soil maps and data available online for more than 95 percent of the nation's counties and anticipates having 100 percent in the near future. The site is updated and maintained online as the single authoritative source of soil survey information.

Soil surveys can be used for general farm, local,

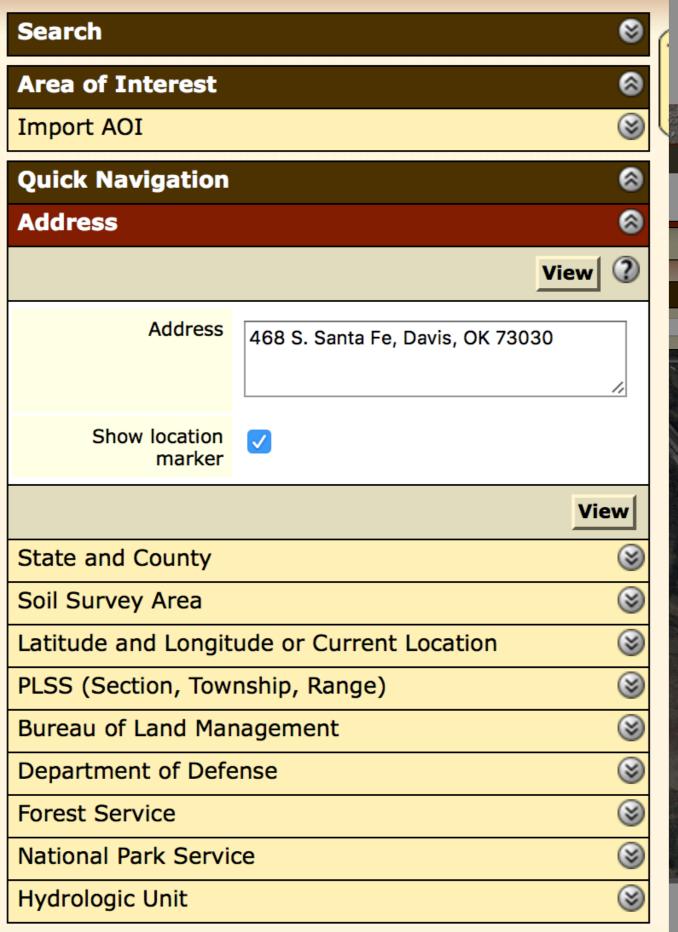
#### I Want To...

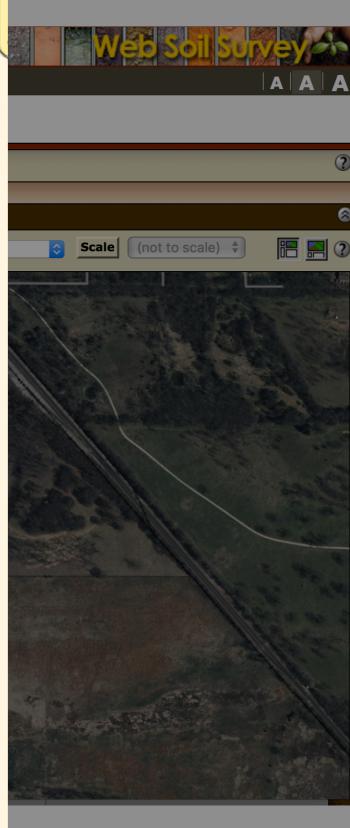
- Start Web Soil Survey (WSS)
- Know Web Soil Survey Requirements
- Know Web Soil
  Survey operation
  hours
- Find what areas of the U.S. have soil data
- Find information by topic
- Know how to hyperlink from other documents to Web Soil Survey
- Know the SSURGO data structure
- Use Web Soil
  Survey on a mobile

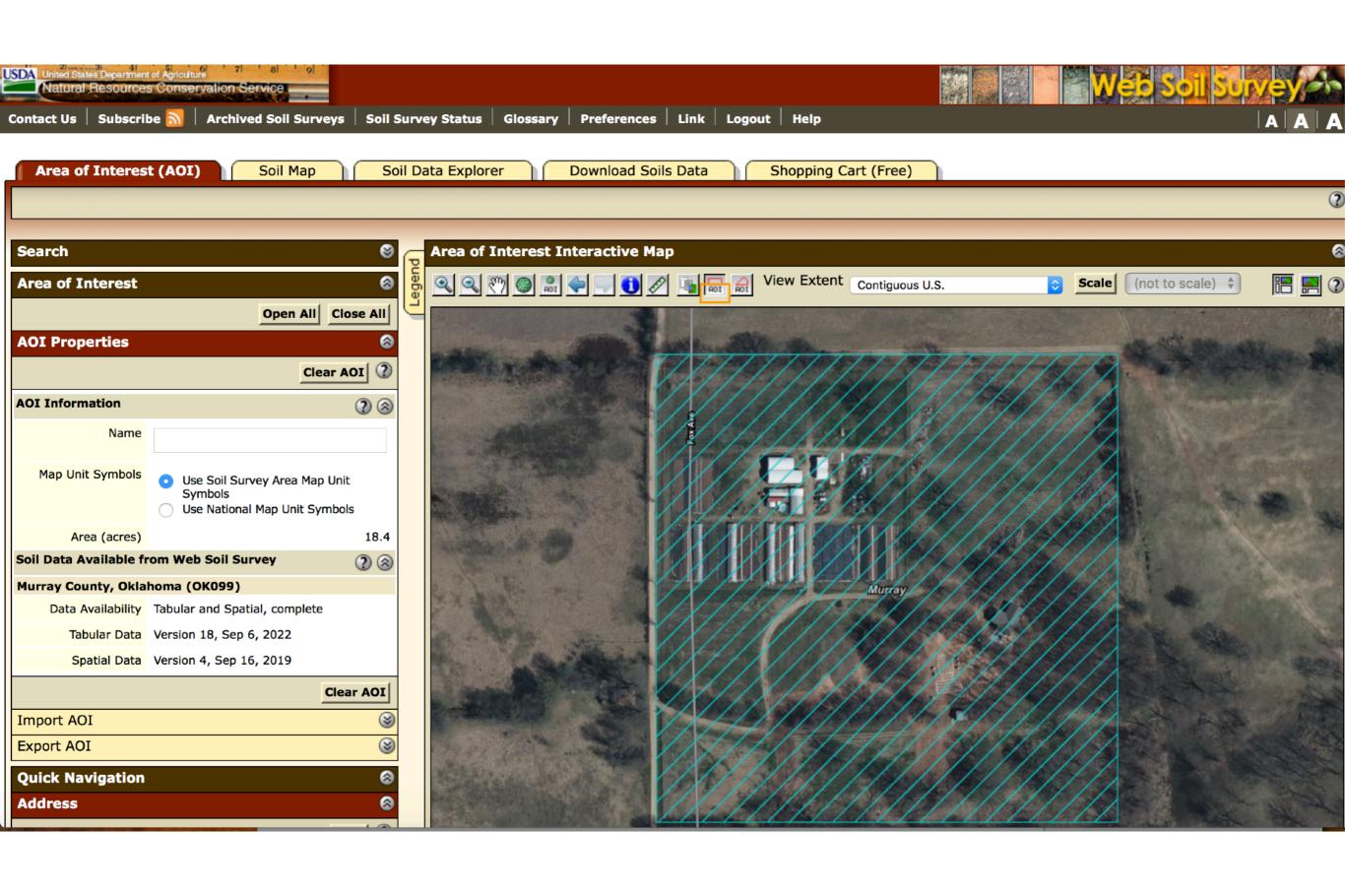


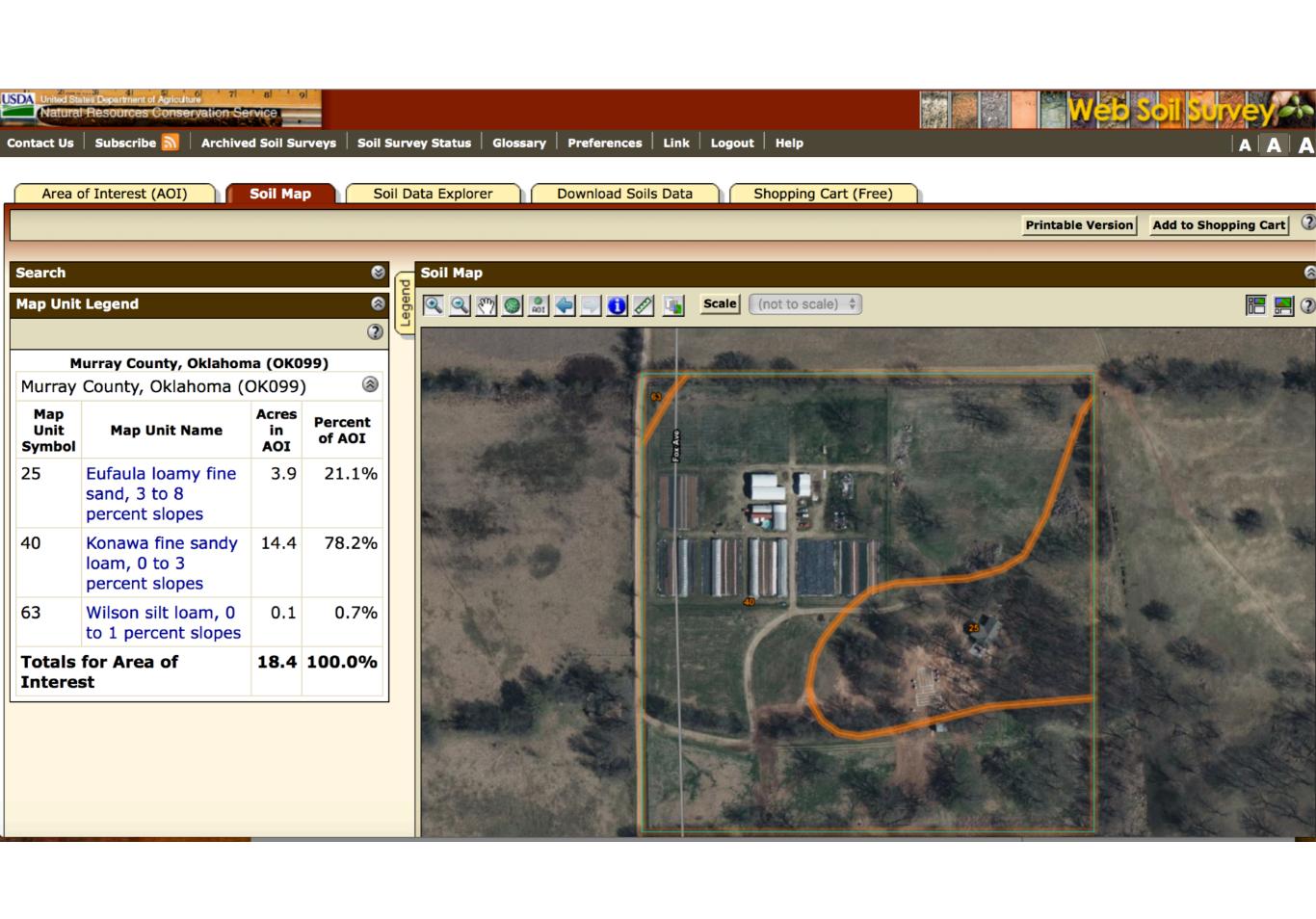














#### **Map Unit Description**

Soil !

2

18.4 100.0%

#### **Printable Version**

#### Report - Map Unit Description

#### (3)

#### **Murray County, Oklahoma**

#### 40-Konawa fine sandy loam, 0 to 3 percent slopes Map Unit Setting

National map unit symbol: dwjd Elevation: 500 to 1,500 feet

Mean annual precipitation: 30 to 40 inches

Mean annual air temperature: 58 to 64 degrees F

Frost-free period: 200 to 230 days

Farmland classification: All areas are prime farmland

#### **Map Unit Composition**

Konawa and similar soils: 100 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

#### **Description of Konawa**

#### Setting

Landform: Paleoterraces

Landform position (three-dimensional): Tread

Down-slope shape: Convex Across-slope shape: Convex

Parent material: Loamy and sandy alluvium

#### Typical profile

A - 0 to 8 inches: fine sandy loam E - 8 to 16 inches: fine sandy loam Bt - 16 to 64 inches: sandy clay loam BC - 64 to 80 inches: fine sandy loam

#### **Properties and qualities**

Slope: 0 to 3 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained

Runoff class: Low

Capacity of the most limiting layer to transmit water (Ksat):

Moderately high to high (0.60 to 2.00 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

#### So Area of Interest (AOI) Soil Map

**Archived Soil Surveys** 

#### Search

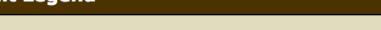
Subscribe 5

#### **Map Unit Legend**

**Totals for Area of** 

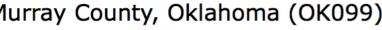
**Interest** 

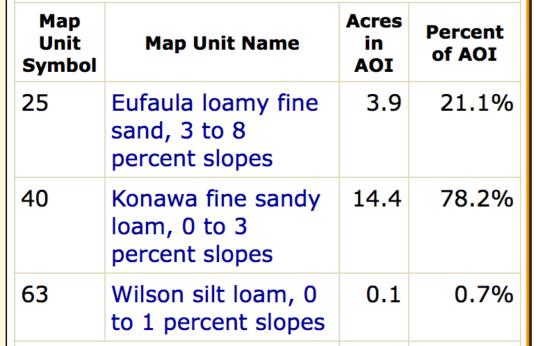
Contact Us



#### Murray County, Oklahoma (OK099)

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## #2: Water

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Where is your water?



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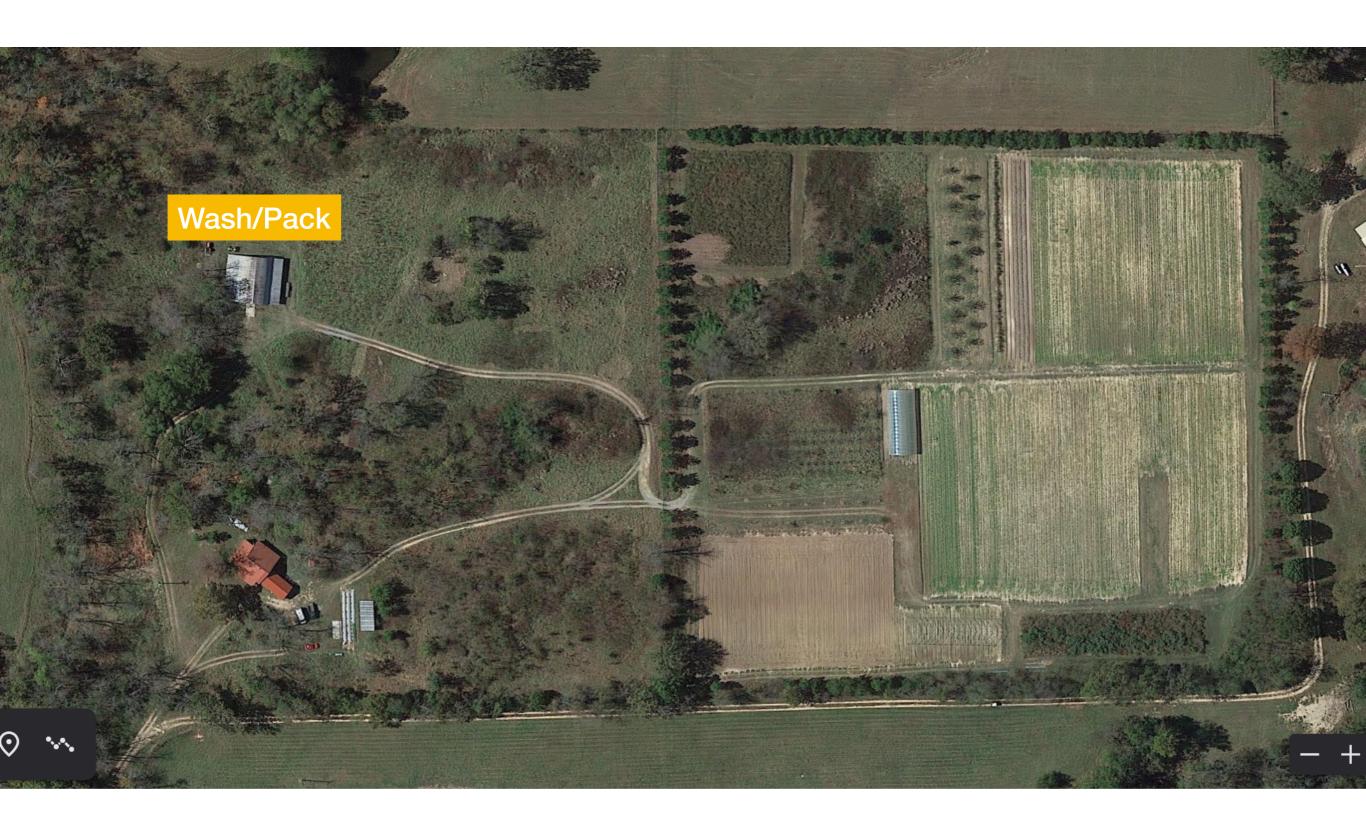
- Where is your water?
- Where does your water flow?





# #3 Hub & Spoke

Think Close and Cozy

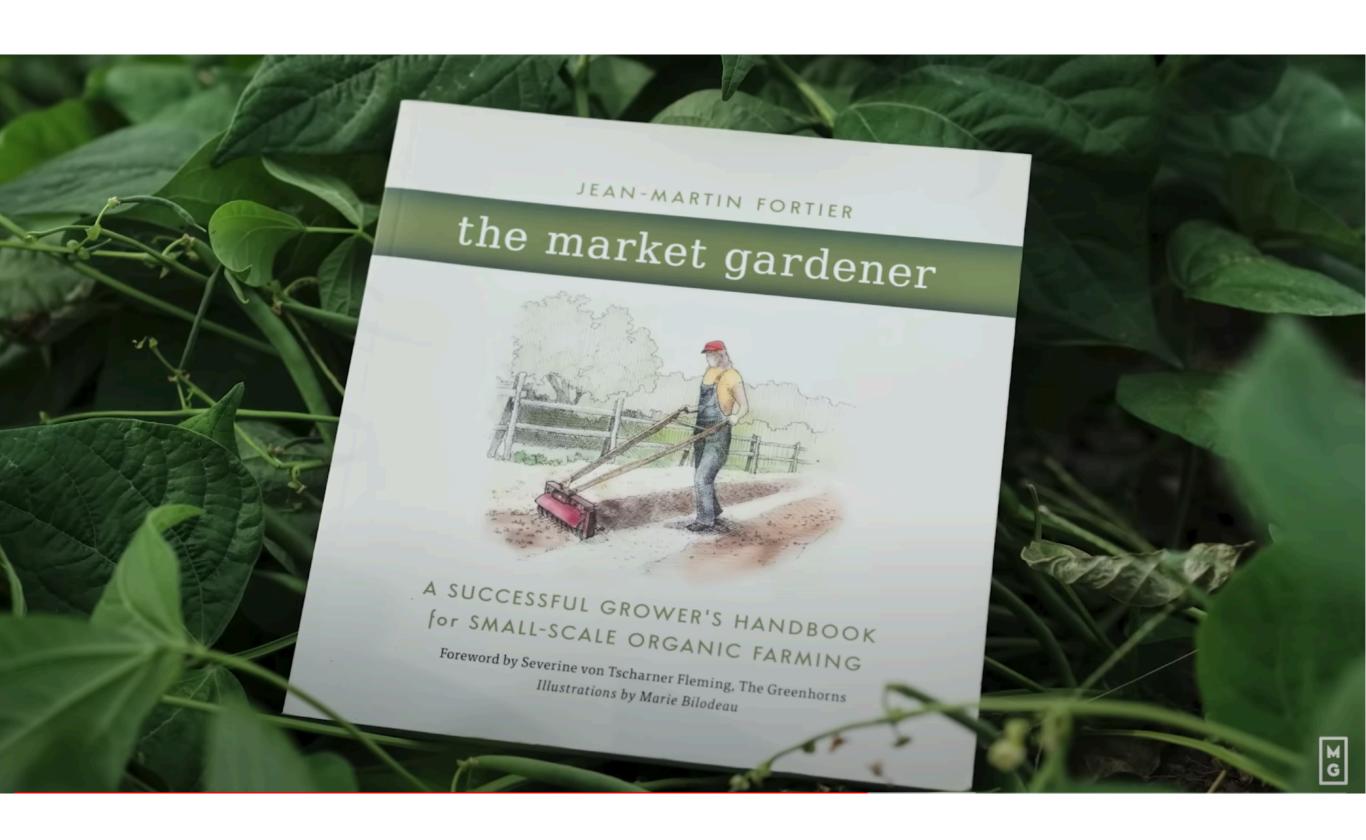














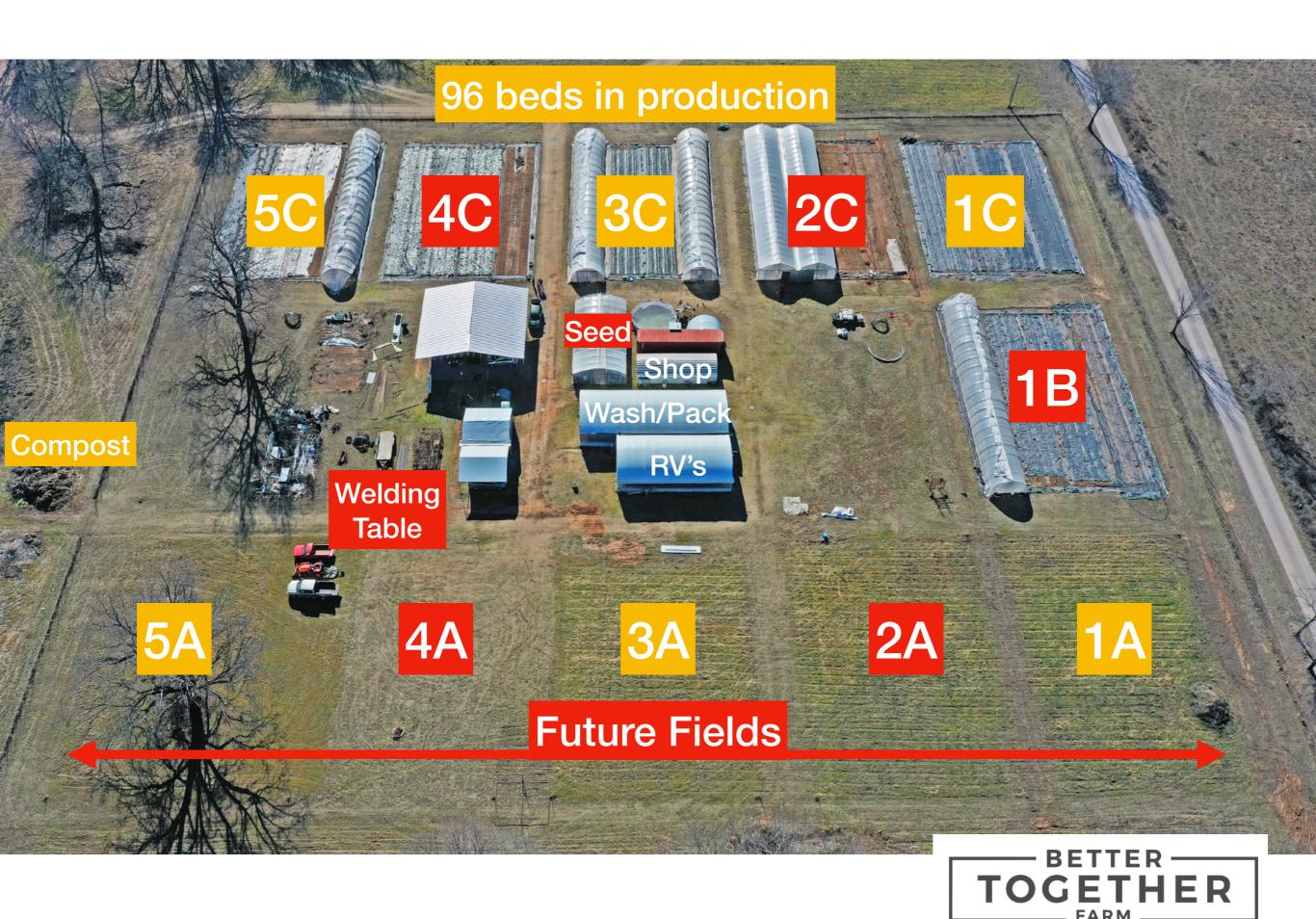


# #3 Hub & Spoke

- Keep beds close to seed house and wash/pack house
- Minimize steps (150 steps to anywhere on the farm)
- Make life happier!

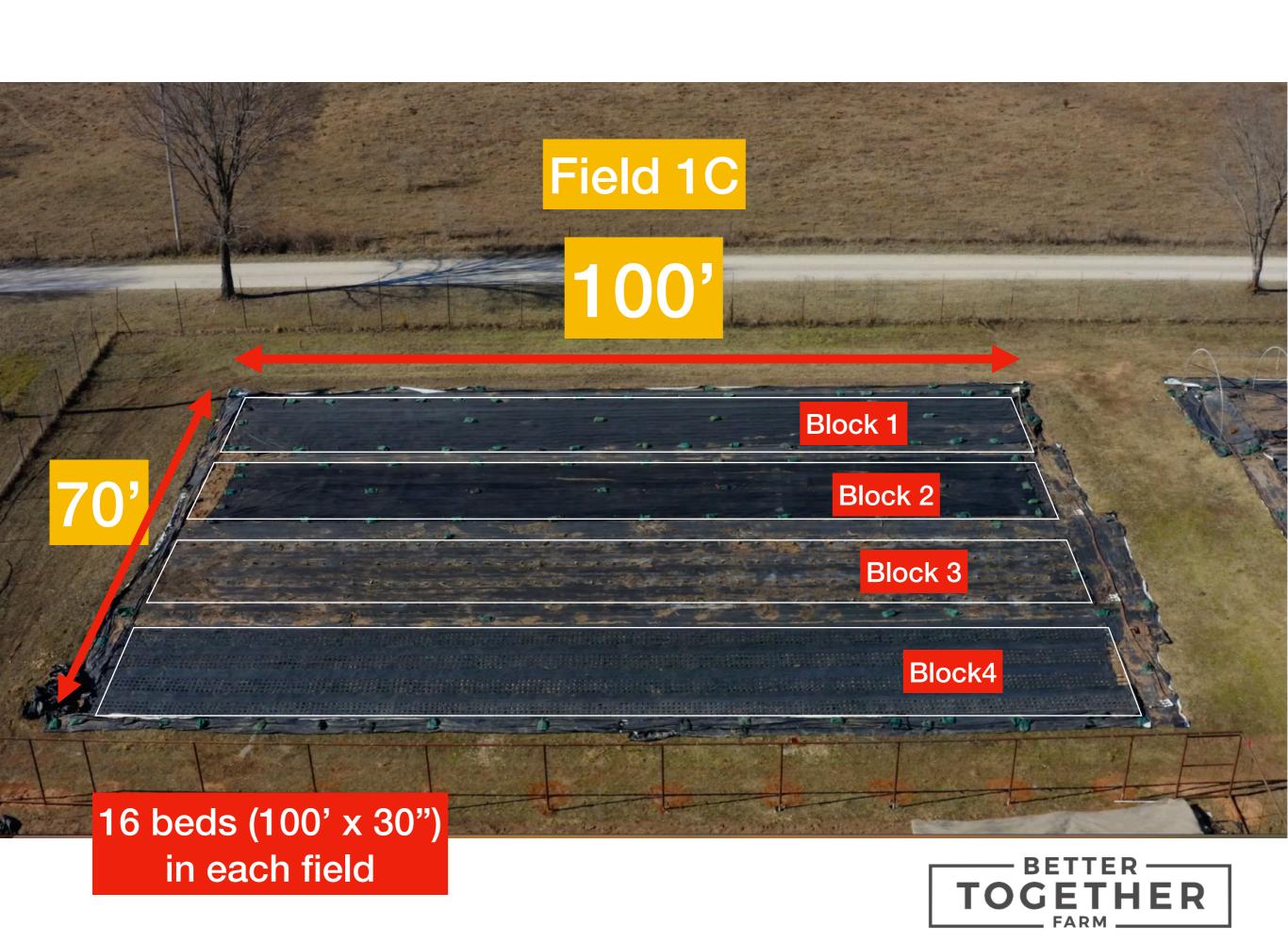
## #4: Standardize

The key to save your time and your MIND.



The key to save your time and your MIND.

Field, Block & Bed Size















The key to save your time and your MIND.

- Field, Block & Bed Size
- Irrigation











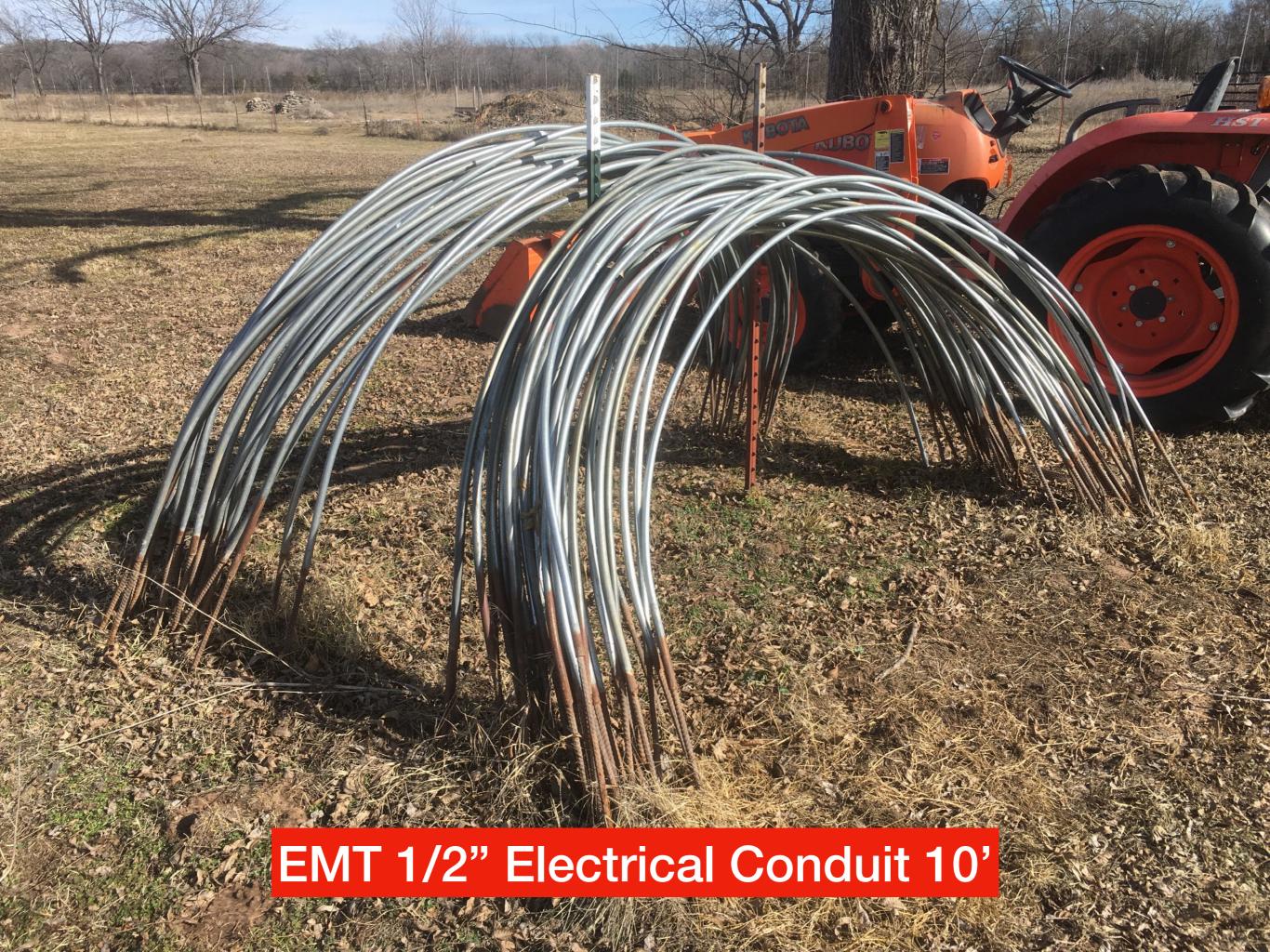




The key to save your time and your MIND.

- Field, Block & Bed Size
- Irrigation
- Low Hoops









The key to save your time and your MIND.

- Field, Block & Bed Size
- Irrigation
- Low Hoops
- Row Cover, Ground Cover, Silage Tarps













# #5: Infrastructure

Seed House



# #5: Infrastructure

- Seed House
- Wash & Pack House



# #5: Infrastructure

- Seed House
- Wash & Pack House
- Hoophouses



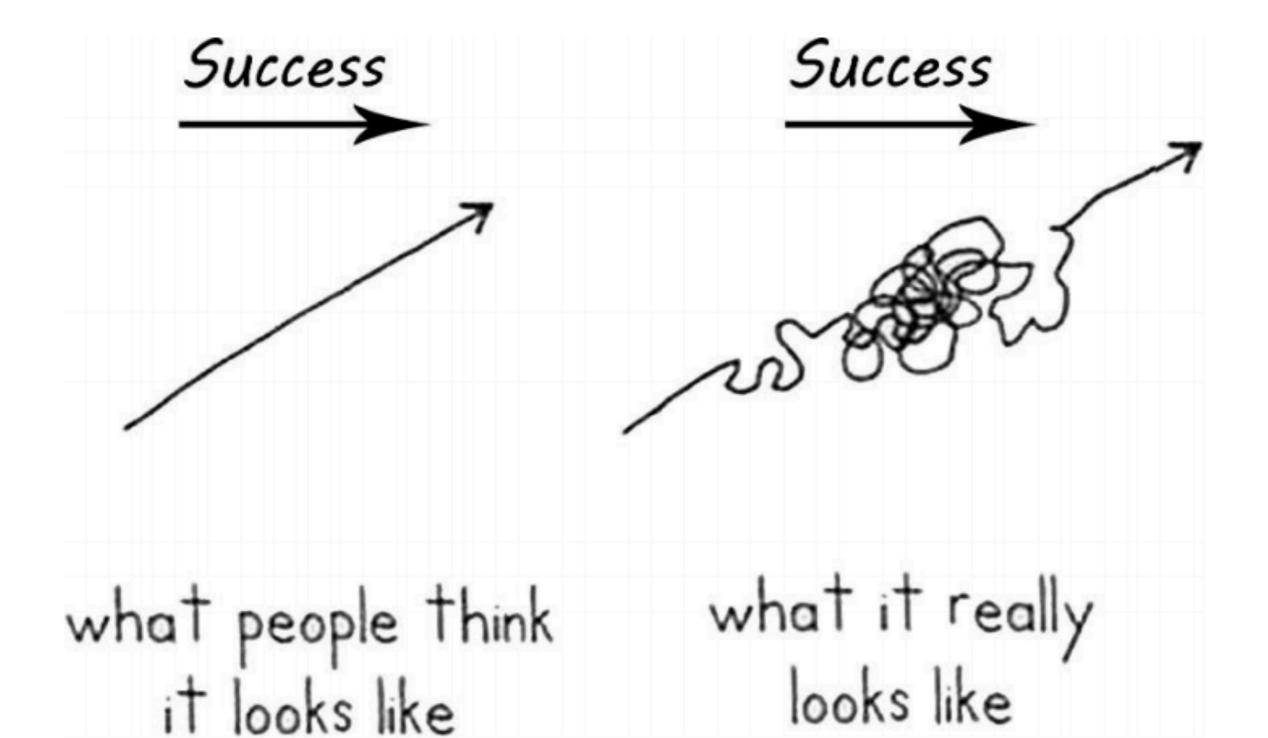






"Good judgment comes from experience, and a lot of that comes from bad judgement."

Will Rogers





#### The End