AFT-NRCS Economic and Environmental Case Studies: Providing Evidence for Soil Health Investment

Speakers

1. Dr. Michelle Perez – AFT Water Initiative Director & Project Leader
2. Florence Swartz – Consulting Economist & former NRCS-NY Economist for Brian Brant, AFT Ag Conservation Innovations Director & Author, Ohio Case Studies
3. Aaron Ristow – AFT NY Stewardship Program Manager & Author, New York Case Studies
4. Ben Wiercinski – AFT Agricultural Economist & Author, Pennsylvania Case Study
5. Sarah Blount – AFT Midwest Conservation Technician & Author, of an Illinois Predictive Assessment

Soil Health Stewardship Session #4
Soil Health: Basics, Practices, Benefits, & Barriers – Part 2
September 8, 2021
1 to 2:45 pm Eastern

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Session Objectives

- Familiarize participants with AFT-NRCS Soil Health Economic and Environmental Case Studies, which provide calculated estimates of the
  - costs,
  - benefits, and
  - return on investment (ROI) experienced by “soil health successful farmers,” and
  - estimates of water quality and
  - climate benefits
- Discuss ways these materials can be used with landowners and producers to encourage soil health practice adoption

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Agenda

1 – 1:15 pm	Objectives, Findings, Options for Use – Michelle Perez (15 min)
1:15 – 1:25	Ohio Case Studies – Florence Swartz for Brian Brandt (10 min)
1:25 – 1:35	New York Case Studies – Aaron Ristow (10 min)
1:35 – 1:45	Illinois Predictive Assessment – Sarah Blount (10 min)
1:45 – 1:55	Pennsylvania Case Study – Ben Wiercinski (10 min)
1:55 – 2:05	Farmer Guest: Morgan Bond, B & R Farms, PA (10 min)
2:05 to 2:25	Q&A + Discussion (20 min)
2:25 to 2:30	R-SHEC & P-SHEC Tool Kits – Michelle (5 min)
2:30 to 2:40	Online Economic Tool Demo – Flo (10 min)

PROJECT BACKGROUND

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Why quantify soil health outcomes?

- Scientific evidence exists that no-till or reduced tillage, cover crops, nutrient management, & conservation crop rotations improve soil health, reduce runoff, lower climate emissions, & sequester carbon

- Not enough information about economic benefits associated with better soil health

- Ag community (growers, landowners, ag retailers, bankers, corporations with sustainability goals, etc.) want to know the “bottom line”

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AFT's 2018 USDA Conservation Innovation Grant (CIG) Project Goals

Drive adoption of soil health practices by:

- ✓ Estimating the net economic & environmental benefits associated with adoption of soil health practices by **developing two new economic tools (R-SHEC & P-SHEC) & using available water quality & climate tools (NTT & COMET)**
- ✓ Packaging results in 2-page compelling **case studies**
- ✓ Empowering fellow conservationists to produce their own **case studies** featuring local, "**soil health successful" producers** or **predictive assessments** featuring **"soil health curious" producers**
- ✓ **Theory of change:** The more local evidence there is, the "faster" we get more farmers to "yes" on more acres

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Meet the AFT CIG Project Team

Michelle Perez, PhD
Project Leader
Water Initiative Director

Florence Swartz
Project Economist
Retired NRCS NY
Economist

Sat Darshan Khalsa, PhD
AFT Almond Consultant
Assistant Project Scientist
UC Davis

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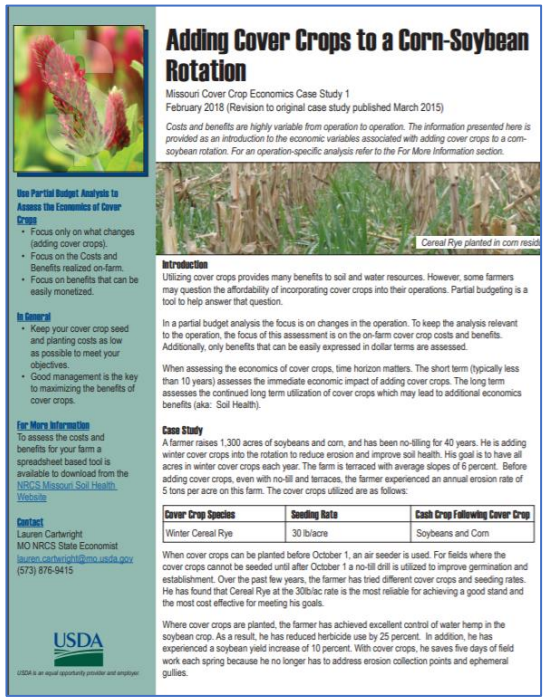
Terrific economic case studies that preceded those by AFT

2 NRCS-NY
2 pages each
Partial Budget Analysis



5 NRCS-MO
2 pages each
Partial Budget Analysis

4 NACD-Datu
16 pages each
Partial Budget Analysis

3 EDF-K-Coe ISOM
4 pages each
Farm Enterprise Analysis

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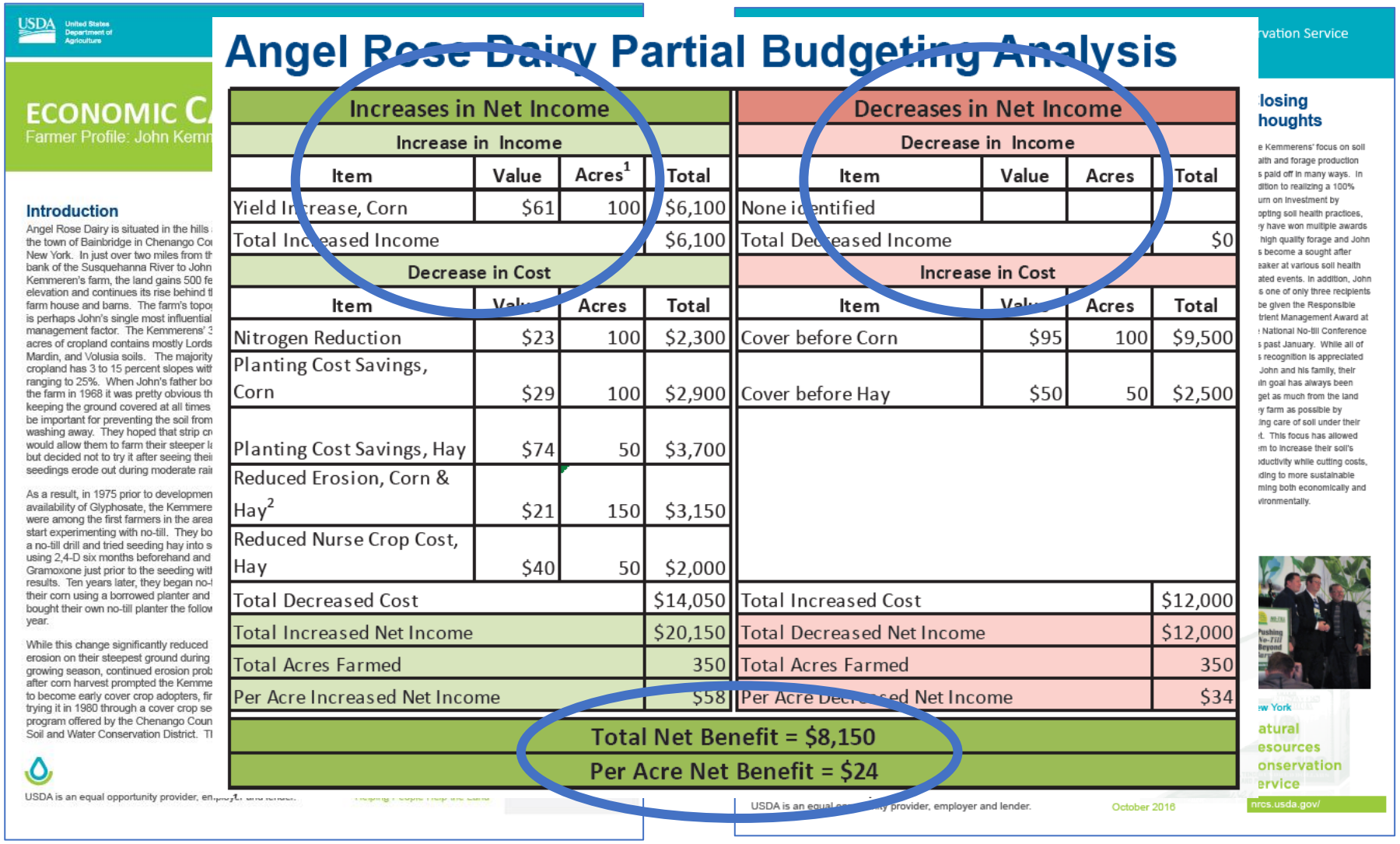
Tailored our case studies after Flo's NRCS-NY case studies



USDA United States Department of Agriculture

ECONOMIC C
Farmer Profile: John Kemn

Introduction

Angel Rose Dairy is situated in the hills
the town of Bainbridge in Chenango Co
New York. In just over two miles from th
bank of the Susquehanna River to John
Kemmeren's farm, the land gains 500 fe
elevation and continues its rise behind t
farm house and barns. The farm's topo
is perhaps John's single most influential
management factor. The Kemmerens' 3
acres of cropland contains mostly Lords
Mardin, and Volusia soils. The majority
cropland has 3 to 15 percent slopes with
ranging to 25%. When John's father bo
the farm in 1968 it was pretty obvious th
keeping the ground covered at all times
be important for preventing the soil from
washing away. They hoped that strip cr
would allow them to farm their steeper l
but decided not to try it after seeing thei
seedings erode out during moderate rai

As a result, in 1975 prior to developmen
availability of Glyphosate, the Kemmere
were among the first farmers in the area
start experimenting with no-till. They bo
a no-till drill and tried seeding hay into s
using 2,4-D six months beforehand and
Gramoxone just prior to the seeding with
results. Ten years later, they began no-
their corn using a borrowed planter and
bought their own no-till planter the follow
year.

While this change significantly reduced
erosion on their steepest ground during
growing season, continued erosion prob
after corn harvest prompted the Kemme
to become early cover crop adopters, fir
trying it in 1980 through a cover crop se
program offered by the Chenango Coun
Soil and Water Conservation District. Th

USDA is an equal opportunity provider, employer and lender.

Angel Rose Dairy Partial Budgeting Analysis

Increases in Net Income

Increase in Income

Item	Value	Acres[1]	Total
Yield Increase, Corn	$61	100	$6,100
Total Increased Income			$6,100

Decrease in Cost

Item	Value	Acres	Total
Nitrogen Reduction	$23	100	$2,300
Planting Cost Savings, Corn	$29	100	$2,900
Planting Cost Savings, Hay	$74	50	$3,700
Reduced Erosion, Corn & Hay[2]	$21	150	$3,150
Reduced Nurse Crop Cost, Hay	$40	50	$2,000
Total Decreased Cost			$14,050
Total Increased Net Income			$20,150
Total Acres Farmed			350
Per Acre Increased Net Income			$58

Decreases in Net Income

Decrease in Income

Item	Value	Acres	Total
None identified			
Total Decreased Income			$0

Increase in Cost

Item	Value	Acres	Total
Cover before Corn	$95	100	$9,500
Cover before Hay	$50	50	$2,500
Total Increased Cost			$12,000
Total Decreased Net Income			$12,000
Total Acres Farmed			350
Per Acre Decreased Net Income			$34

Total Net Benefit = $8,150

Per Acre Net Benefit = $24

rvation Service

losing houghts

e Kemmerens' focus on soil alth and forage production s paid off in many ways. In dition to realizing a 100% urn on investment by opting soil health practices, y have won multiple awards high quality forage and John s become a sought after eaker at various soil health ated events. In addition, John s one of only three recipients be given the Responsible trient Management Award at National No-till Conference s past January. While all of s recognition is appreciated John and his family, their in goal has always been get as much from the land y farm as possible by ing care of soil under their t. This focus has allowed m to increase their soil's oductivity while cutting costs, ding to more sustainable ming both economically and vironmentally.

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October 2016

nrcs.usda.gov/

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ECONOMIC METHODS

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To teach a partial budget analysis, Flo developed a calculator based on the NRCS Cover Crops Tool

Level III T-Chart

T-Chart, Level III, Cropland – Soil Quality Improvement

Name: Sandy Clayton
Location: Columbia Basin, Oregon
Date: 2008

Resource Concerns/Benchmark Condition:
600 acres of cropland producing 70 bushels wheat and 50 bushels barley per acre in a two year rotation. Conventional tillage, nutrient and pest management. Resource concerns include: Sheet & Rill Soil Erosion, Organic Matter Depletion, Compaction, Surface Water Contaminants, Plant Productivity, and Wildlife.

Conservation Treatment:
Conservation Crop Rotation (Winter Wheat/Canola/Spring Barley)
Residue Management (Direct Seed/No-Till)
Pest Management (Annual Grasses and Aphids)
Nutrient Management (Fertilizer Management)

Positive Effects

Reduced Costs

- Change in Crop Rotation = $25/ac/yr

2-year Conventional Rotation	Net Returns
Winter Wheat	$100/ac/yr
Spring Barley	$50/ac/yr
	$75/ac/yr

3-year No-Till Rotation	
Winter Wheat	$130/ac/yr
Canola	$100/ac/yr
Spring Barley	$70/ac/yr
	$100/ac/yr

Decreased fertilizer applied 20 Lbs N/Ac
20 Lbs/Ac * $.75/Lb / 3 Yrs = $5/ac/yr
Reduce six tillage passes over the field:
$10/Pass * 6 Passes / 3 Yrs = $20/ac/yr
Reduce fuel and labor
(included in the reduced tillage passes)

Increased Revenue

- Wheat yield increase (no estimate available)
- Financial Assistance Payment $10/ac/yr

Other

- Improved soil and water quality
- Upland bird habitat improvement

Total Dollar Benefits = $35/ac/yr

Negative Effects

Increased Costs

- No-Till Drill = $25,000, amortized at 5 Yr. loan, 6% interest, 600 Acres = $9.90/Ac/Yr. (not included in crop budgets, amortization explained below)
- Pest Management $10.10/Ac/Yr.
- Nutrient/Fertilizer Management = $2/ac/yr

Reduced Revenue

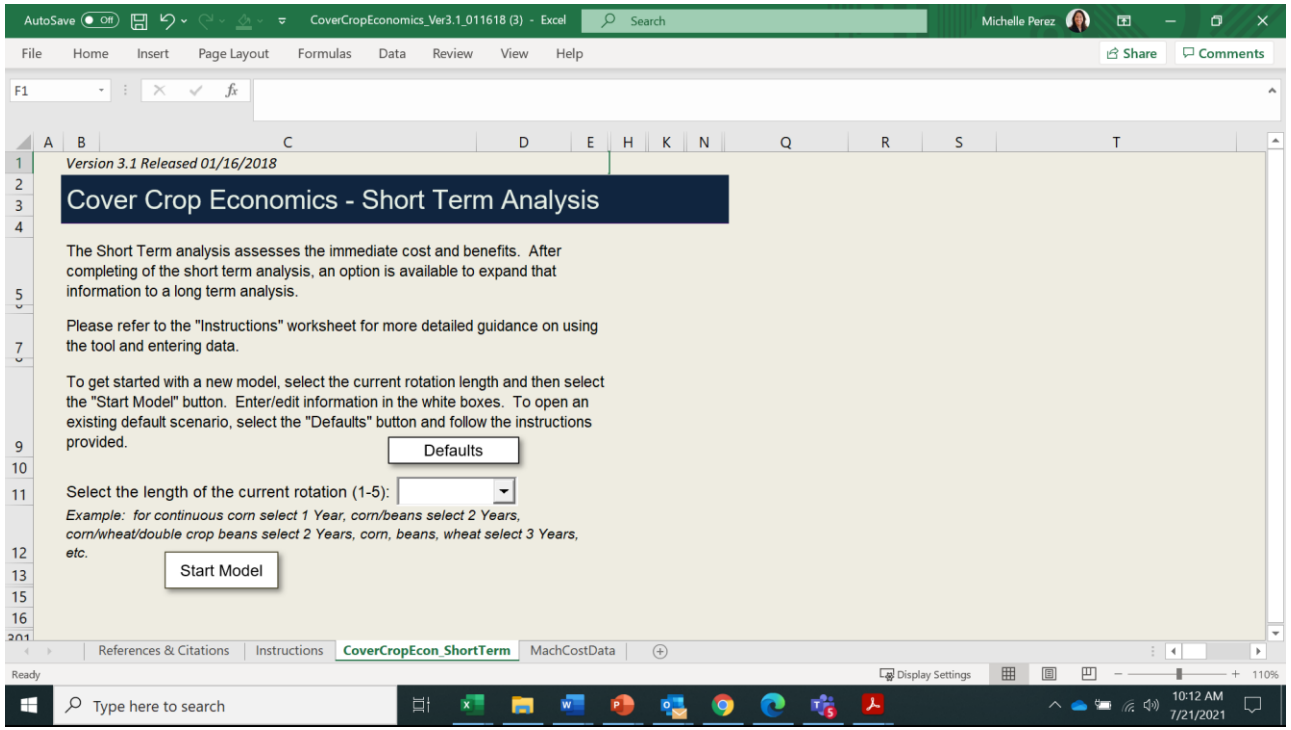
- Possible lost grazing opportunities

Total Dollar Costs = $22/ac/yr

$35/ac/yr Total Benefits - $22/Ac/Yr Total Costs = $13/ac/yr Net Benefits

NRCS Cover Crops Decision Support Tool

Developed by Lauren Cartwright, NRCS-MO & Bryon Kirwan, NRCS-IL



[Soil Health | NRCS Missouri (usda.gov)](#)
(Keywords: NRCS MO cover crop tool)

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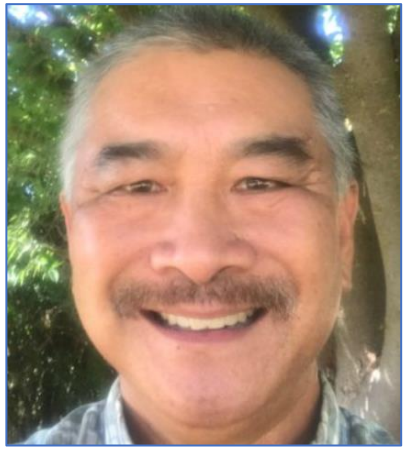
Partial Budget Analysis Overview

- Partial budget analysis:
  - Estimates the economic effect (benefits and costs) of variables affected by a change in a farming operation
  - For this study, PBA compares costs & benefits “before” & “after” soil health practice implementation
  - Developed a 21-page Questionnaire (Word) & an 11-tab Economic Calculator (Excel) to conduct the PBA
  - Uses national datasets for crop, machinery, fertilizer, etc. prices rather than farmer-specific prices

- Primary effects evaluated:
  1. Machinery
  2. Fertilizer
  3. Pesticide
  4. Yield
  5. Erosion repair
  6. Learning costs
  7. Other

Meet the Authors of the AFT Case Studies

Justin Bodell
CA Stewardship Manager



Paul Lum
CA Project Manager

Aaron Ristow
NY Ag Stewardship Program Manager

Brian Brandt
Ag Innovations Director, OH

Emily Bruner, PhD
Midwest Science Director, IL

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Newest additions to the AFT Case Studies and Predictive Assessment Team

Ellen Yeatman
Reviewing Economist
Water Resources Specialist

Ben Wiercinski
Author of FRPP Case Studies & Predictive Assessments
Ag Economist

Sarah Blount
Author of Illinois Predictive Assessment
Midwest Conservation Technician

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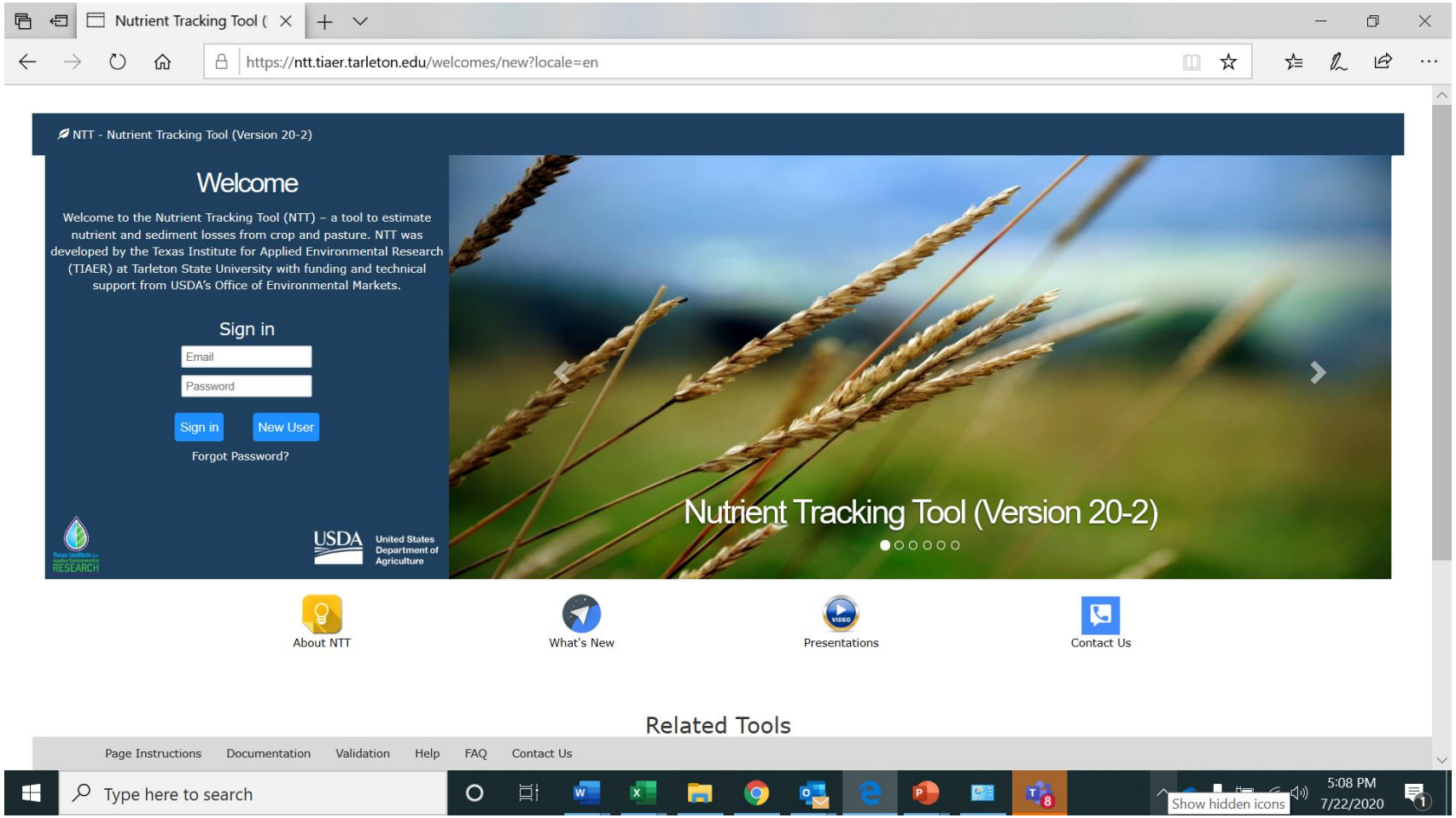
METHODS FOR ENVIRONMENTAL ANALYSIS

Nutrient Tracking Tool – Water Quality



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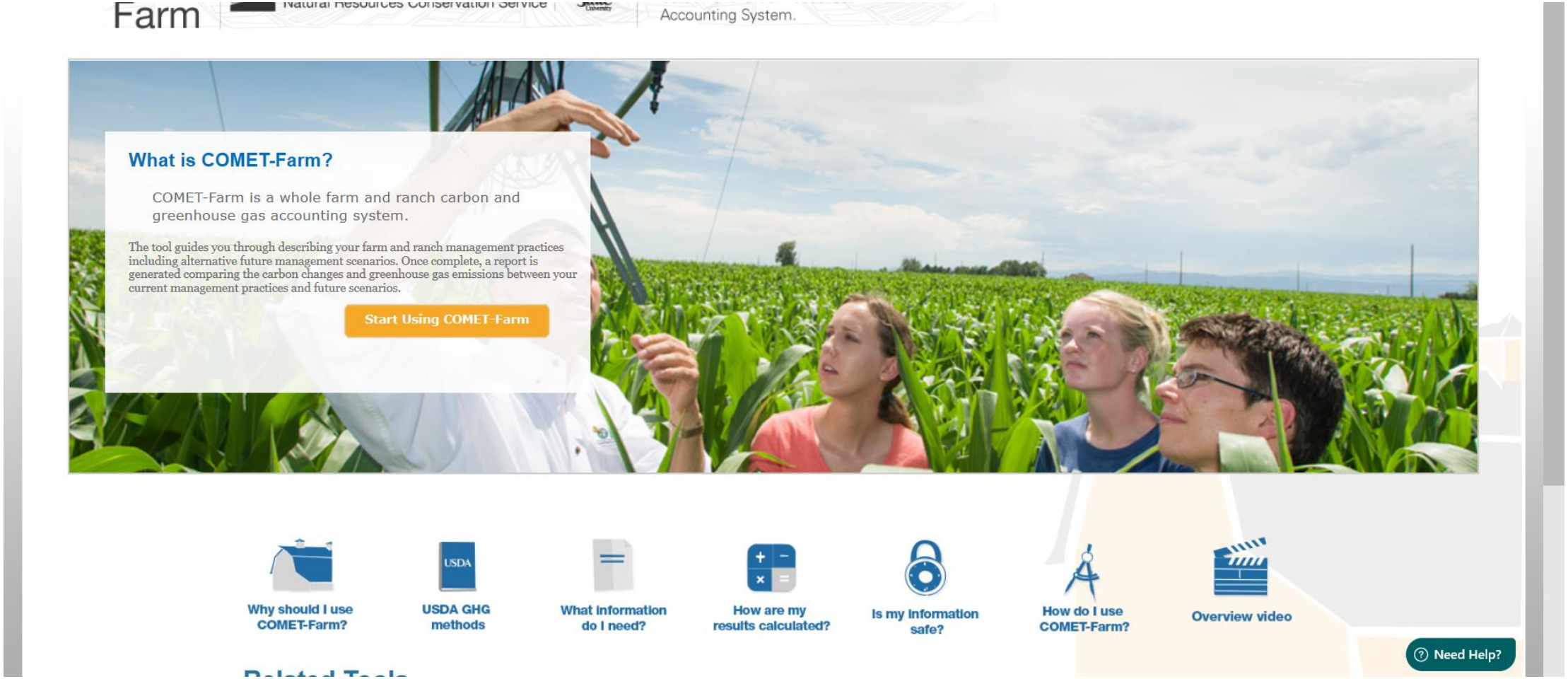
COMET-Farm Tool – GHGs



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Thank you to the External Reviewers of the Case Studies!

- NRCS Economists
  - **Lynn Knight**, Economist, East Region
  - **Bryon Kirwan**, Illinois State Economist
  - **Lakeitha Ruffin**, Oregon State Economist
  - **Richard Iovanna**, FPAC Economist
  - **Sophia Glenn**, FPAC Economist
  - **Sarah Cline**, FPAC Economist

- NRCS Soil Health Specialists
  - **Zahangir Kabir,** West Regional SH Specialist
  - **James Hoorman,** NE Regional SH Specialist
  - **Candy Thomas**, NRCS SH Specialist
  - **Justin Morris**, NRCS SH Specialist
  - **Barry Fisher**, NRCS SH Specialist

- University Economists
  - **John Hanchar,** Cornell Cooperative Extension
  - **Gary Schnitkey,** University of Illinois
  - **Brent Sohngen,** Ohio State University

- NTT Reviewer
  - **Mindy Selman**, USDA Office of Ecosystem Markets

- COMET-Farm Reviewers
  - **Matthew Stermer, Mark Easter, & Haley Nagle,** Colorado State University

Thank you to Bianca Moebius-Clune, NRCS Soil Health Division Director, for putting NRCS' logo on the case studies to increase their use by conservationists with farmers!

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Soil Health Case Study

Eric Niemeyer, MadMax Farms, OH

USDA NRCS PHOTO

JULY 2019

Introduction

Eric Niemeyer's MadMax Farms lies in the middle of the Upper Scioto Watershed in Ohio. Eric is a first-generation farmer in his 15th farming season producing corn and soybeans. He has learned many lessons the hard way by trying different ideas and learning what practices work best on his 1,250-acre operation.

His soils are mainly silt and clay loams. Although many of his fields have flat or slightly rolling terrain, Eric saw the impact of erosion when gullies formed in low areas or where soil washed away in areas of concentrated water flow. More importantly, he recognized that using conventional tillage practices made it difficult to consistently grow a profitable crop.

Consequently, Eric spent time educating himself at workshops, field days, and conferences, and by reading about soil health practices. When Eric decided he needed to change how he farmed, he sought the help of Charlie Walker, his right-hand man and a longtime no-till innovator. Following Charlie's advice, Eric converted his cropland to no-till and adopted variable rate fertilizer application technology (VRT) in 2011. To address surface or sub-surface drainage issues, Eric repaired sub-surface drainage tile, gullies, and eroded areas. He also began taking soil tests every two years instead of every four.

In 2014, he started planting cover crops on his entire farm. Eric prefers using multi-species mixes and customizes them based on whether he is planting corn or soybeans. In addition, he fine-tunes his [illegible] recipe based on what [illegible] health outcomes he is trying to achieve. [illegible] include breaking up compaction layers, increasing water infiltration, increasing organic matter, and improving nutrient availability. Eric became such a believer in cover crops that he started a cover crop consulting business in 2014. He also seeds cover crops for other farmers using his customized, high clearance seeder during the growing season. Eric continues educating himself about soil health practices for his farm and for his consulting businesses. Half of Eric's significant learning costs have been attributed to his farm operation and included in this study.

Soil Health, Economic, Water Quality, and Climate Benefits

Combining cover cropping, no-till, and VRT has produced many benefits. Eric can *see* and *smell* the improvements in soil health, which he believes have led in part to increased yields. Since 2014, his per acre yields have gone from 165 to 195 bushels for corn and from 45 to 65 bushels for soybeans. He estimates at least half of these improvements are the result of his soil health management system and attributes the rest to good weather and better varieties.

Better soil health has also led to better nutrient cycling, improved weed management, and less disease and insect pressure. These changes, along with more precise nitrogen (N) applications allowed Eric to cut N for corn by over 5%. More importantly, he has been able to cut phosphorus (P) and potassium applications by 50% for both corn and soybeans. As a result, he is saving almost $18 per [illegible] each year on fertilizer. Better soil health has allowed Eric to reduce his soybean seeding rate, saving $5 per acre. Similarly, he has nearly eliminated the need for residual herbicides

Farm at a Glance

COUNTY: Marion & Delaware Counties, OH

WATERSHED: Upper Scioto Watershed

CROPS: Corn & soybeans

FARM SIZE: 1,250 acres

SOILS: Silt loam & clay loam soils, flat to slightly rolling terrain with slopes from 0 to 10%

SOIL HEALTH PRACTICES: No-till, cover crops, nutrient management

USDA United States Department of Agriculture Natural Resources Conservation Service

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NRCS agreed to co-brand the case studies!

USDA United States Department of Agriculture Natural Resources Conservation Service

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9 AFT-NRCS SOIL HEALTH ECONOMIC & ENVIRONMENTAL CASE STUDIES

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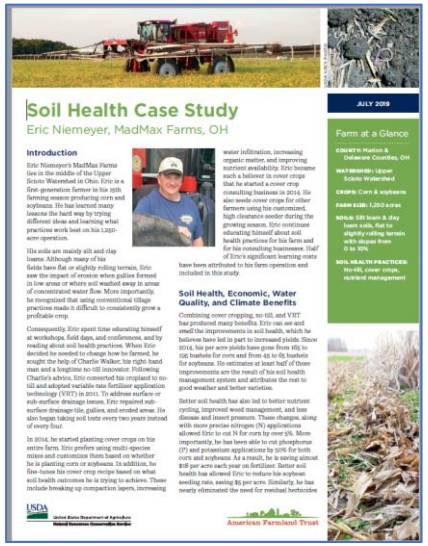
9 Soil Health Case Studies (front)

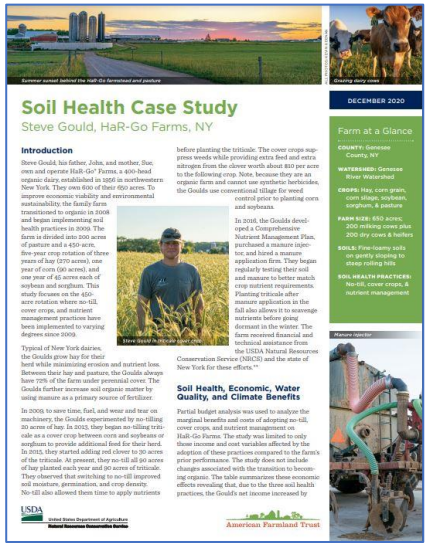
2 CA almond

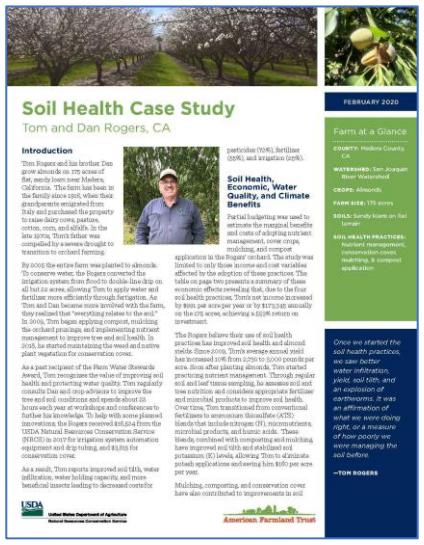
2 IL corn-soybeans

2 OH corn-soybeans



3 NY diversified row crop systems





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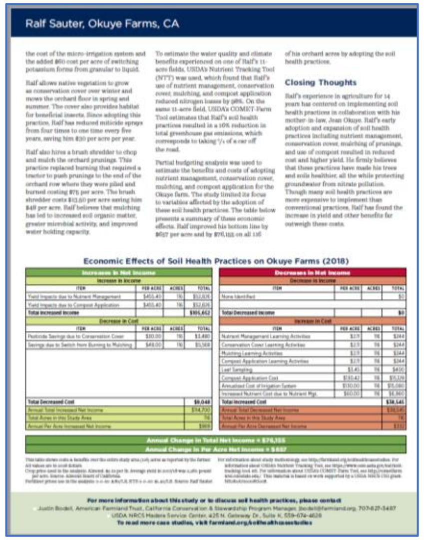
9 Soil Health Case Studies (back)

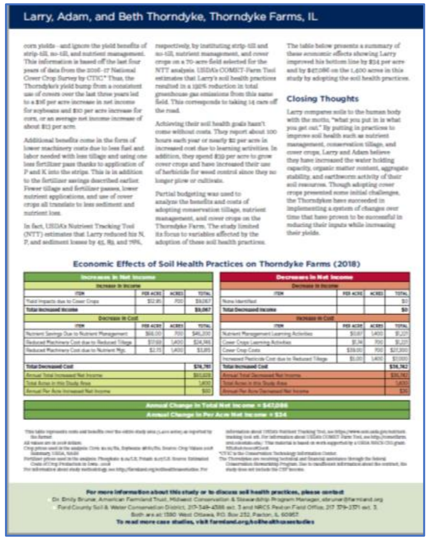
2 CA almond

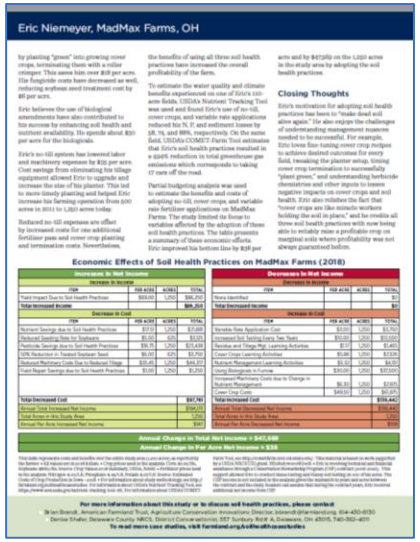
2 IL corn-soybeans

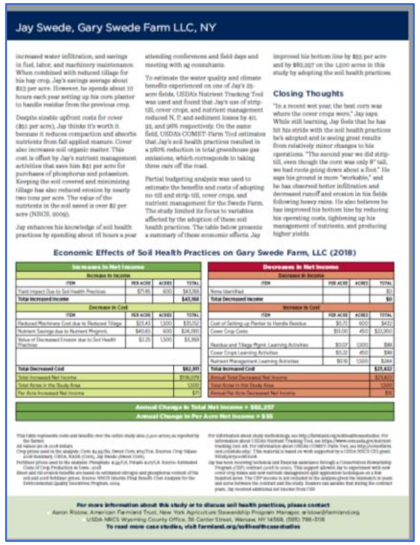
2 OH corn-soybeans

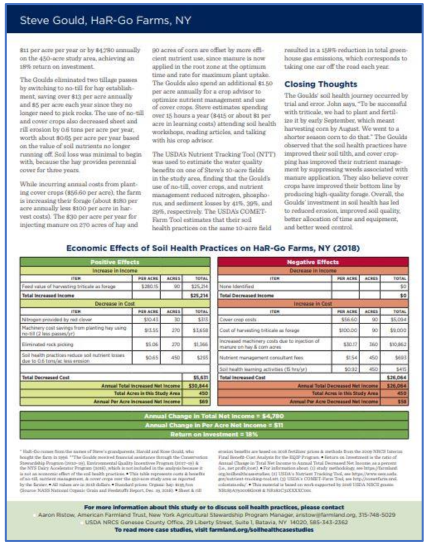
3 NY diversified row crop systems

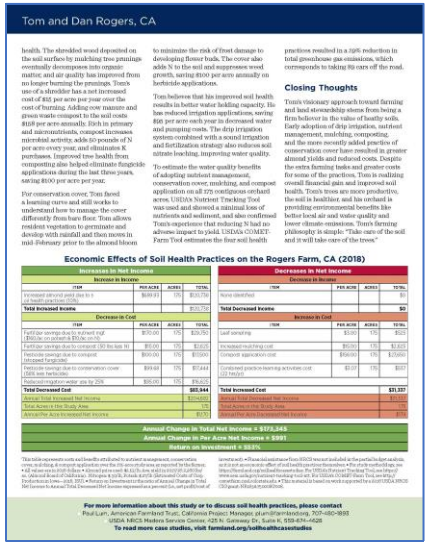


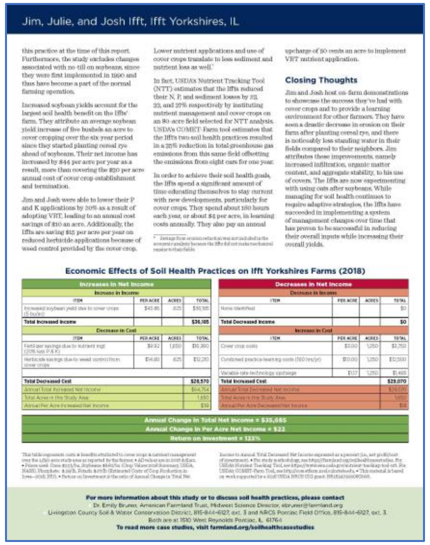


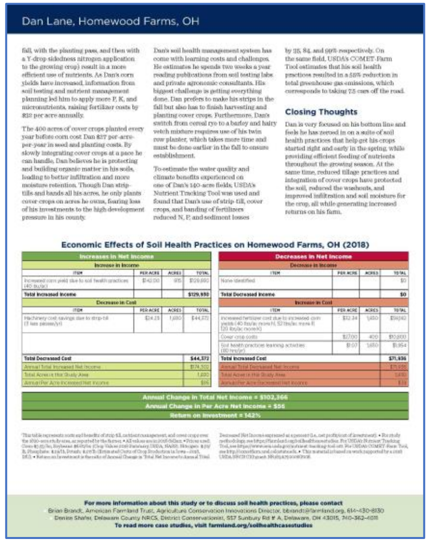


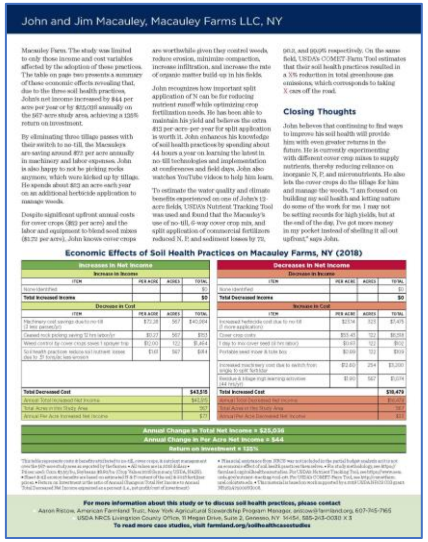












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OVERARCHING FINDINGS

Yield & Income Benefits of Soil Health Practices Across Seven "Soil Health Successful" Row Crop Farms

- **Improved Yield:**
  - 2 farms reported no yield change
  - 5 reported yield increases
  - Range: 2% to 22% for at least one crop grown
- **Annual Change in Net Income:**
  - 7 farms reported increases in income
  - Range: $11 to $56/ac/yr
- **Return on Investment:**
  - 7 farms reported positive ROI
  - Range was 18% to 343%

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Input Benefits & Costs of Soil Health Practices Across Seven Row Crop Farms

- **Changes to Fertilizer Costs:**
  - 1 farm increased costs
  - 4 farms reduced costs
  - 2 farms saw no change in costs
  - Range in savings: $18 to $66/ac/yr

- **Changes to Machinery, Fuel, and Labor Costs due to Change in Tillage:**
  - 1 farm reported no change
  - 6 farms reduced costs
  - Range: $14 to $72/ac/yr

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Input Benefits & Costs of Soil Health Practices Across Seven Row Crop Farms

- **Pesticide Usage: (Herbicide, Insecticide, and Fungicide)**
  - 3 farms reported no change
  - 4 reported changes
    - 2 farms increased; Range: $5 to $11/ac/yr
    - 2 farms decreased; Range: $15 to $19/ac/yr

- **Learning Costs:**
  - Ranged from $415 to $12,940/yr or 44 cents to $10.35/ac/yr

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Environmental Benefits of Soil Health Practices Across All Farms

- **Water Quality Improvement:**

  All 7 row crop farmers *observed* reduced soil and water runoff

  On selected fields for 7 row crop farms plus one almond grower, NTT estimated:

  - Average reduction in N losses was 61% (range was 23 to 72%)
  - Average reduction in P losses was 73% (range was 33 to 92%)
  - Average reduction in sediment losses was 81% (range was 37 to 99%)

- **Climate Improvement**:

  On selected fields of 7 row crop farmers and both almond growers, COMET-Farm estimated total GHG emissions were reduced an average of 158% (range was 16 to 560%)

WAYS TO USE THE CASE STUDIES WITH YOUR FRPP LANDOWNERS & FARMERS

Options for Conversations & Handouts

- Reach out & establish a working relationship with conservation professionals to:
    1. Share the case studies & materials
    2. Introduce your landowners/farmers to for assistance on the next step in their SH journey
- Print Case Studies & use as Handouts
- Print the 4 Slides with Summary Results for 7 Row Crop Farmers (IL, OH, NY) as a Handout
- Print the “Stories via Multiple Slides” for 2 OH, 3 NY, and 1 PA case studies (and 1 IL predictive assessment)
- Print the 1 Individual Slides for 2 OH, 3 NY, and 1 PA case studies (and 1 IL predictive assessment)

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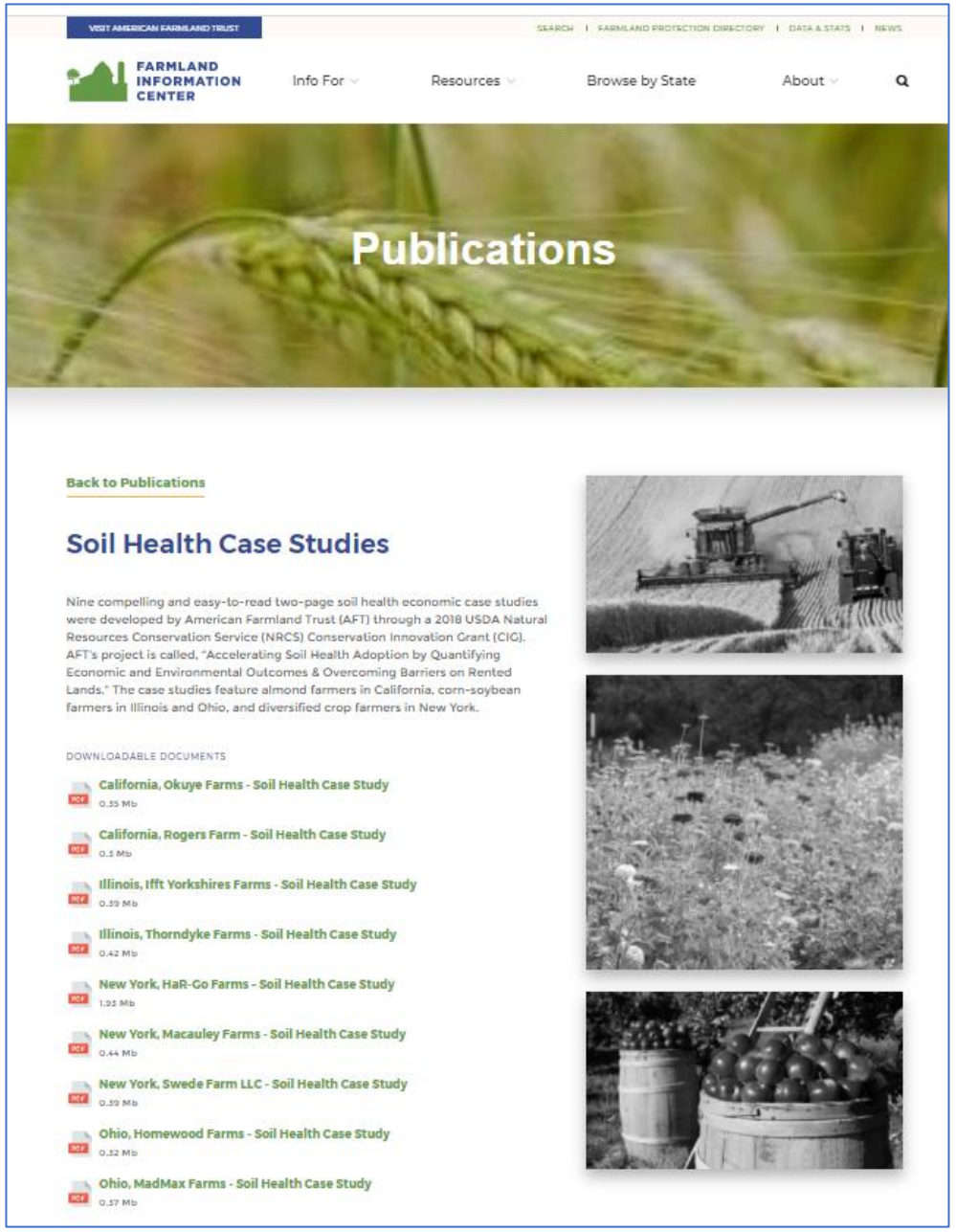
ACCESSING THE CASE STUDIES



Download the case studies from AFT's site

https://farmlandinfo.org/publications/soil-health-case-studies/

Keyword search:

"AFT soil health case studies"

"AFT economic case studies"

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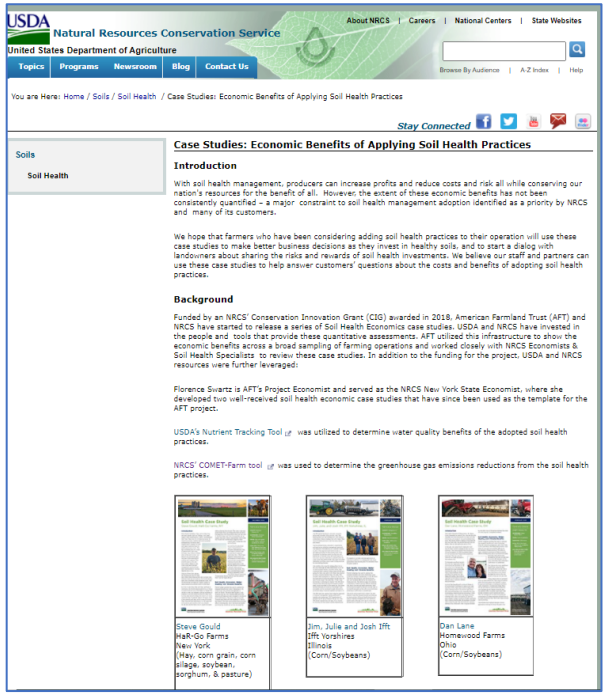
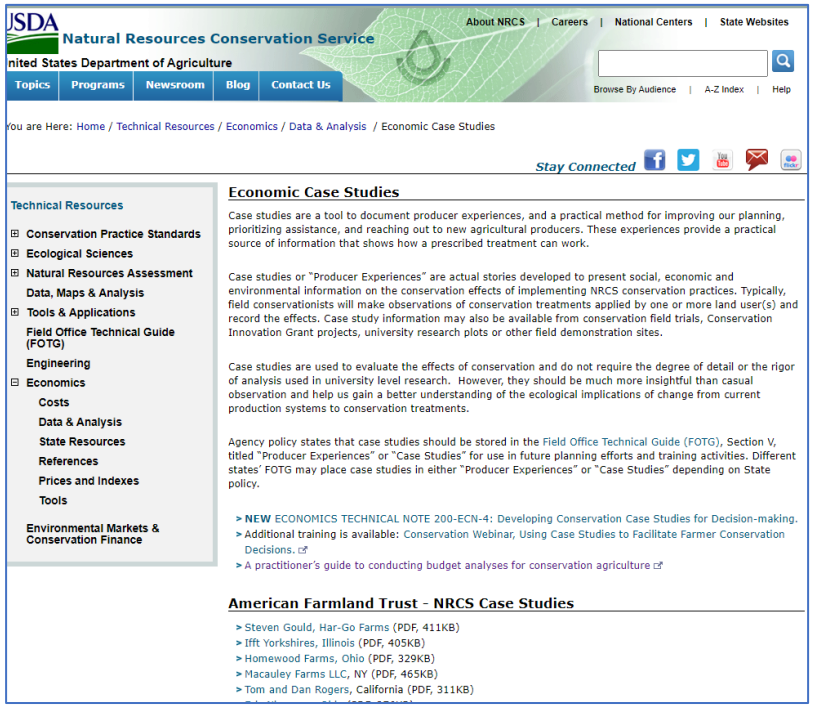
Download the case studies from 2 NRCS sites

NRCS / Home / Soils / Soil Health / Case Studies: Economic Benefits of Applying Soil Health Practices



https://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/soils/health/?cid=NRCSEPRD1470394;

NRCS / Home / Technical Resources / Economics / Data & Analysis / Economic Case Studies



https://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/technical/econ/data/?cid=nrcseprd1298423.

Keyword search: *"NRCS economic case studies"*

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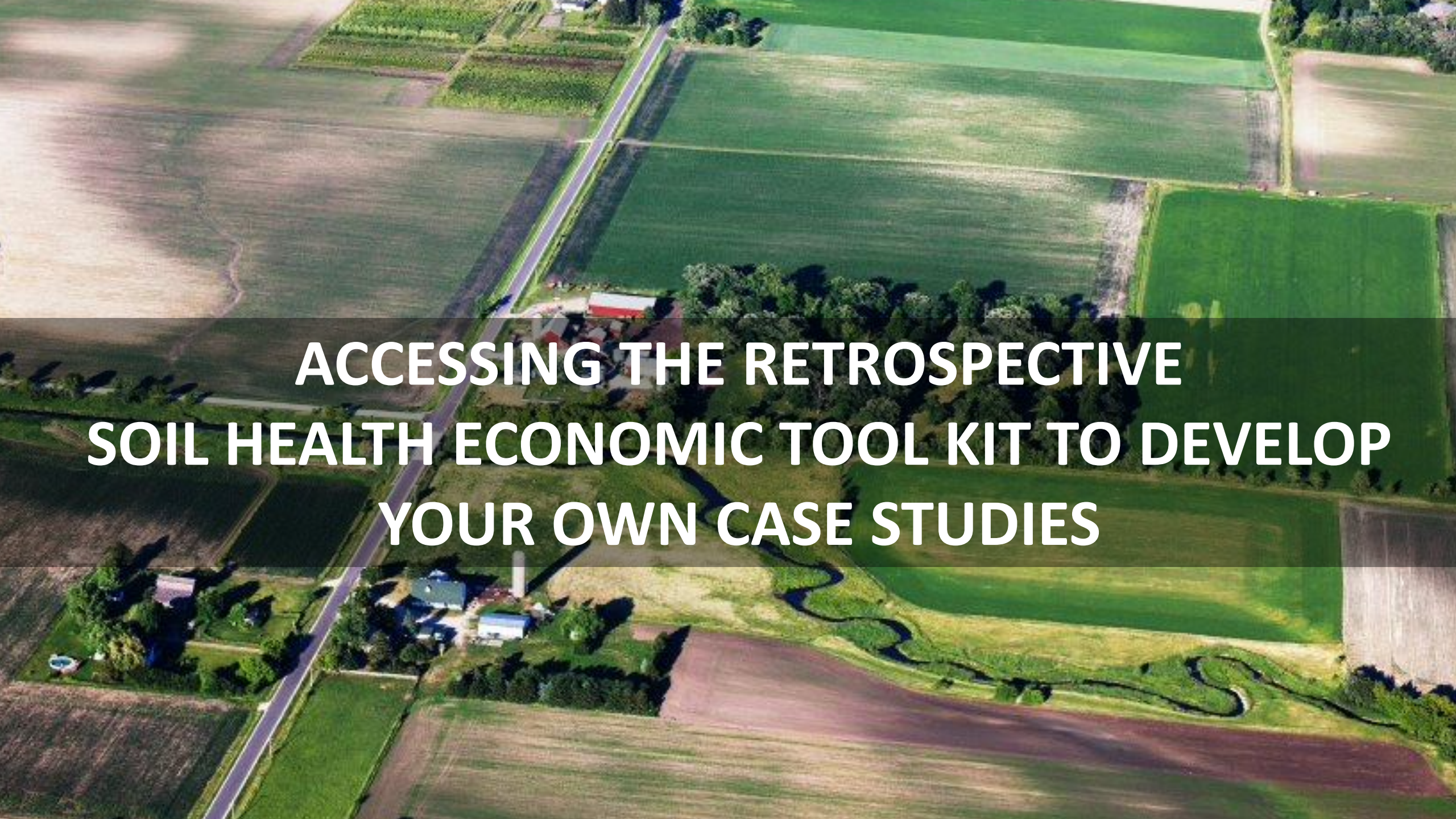


ACCESSING THE RETROSPECTIVE SOIL HEALTH ECONOMIC TOOL KIT TO DEVELOP YOUR OWN CASE STUDIES

Getting into the Retrospective Tool Kit

(just updated July 13, 2021!)

- **For background, start here:**

https://farmland.org/soil-health-case-studies-methods/

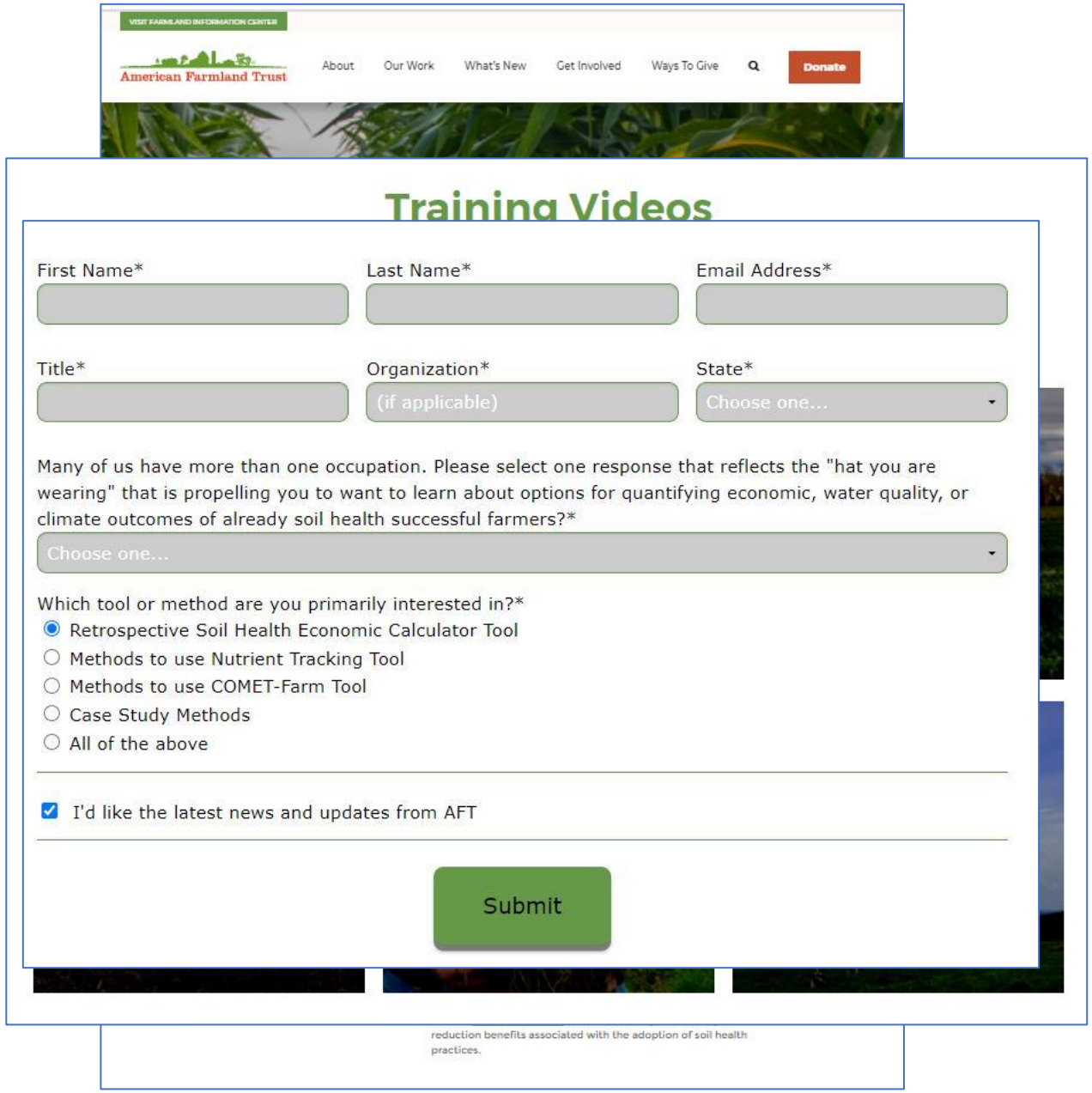
- **Watch training videos from 2020 SWCS workshop**

- **To gain access, fill out form here:**

https://farmland.salsalabs.org/sh_casestudies_methods/index.html

Keyword search:

"AFT soil health tool kit"



Access gained!

American Farmland

Thank you for completing t

Here is a link to the OneDrive folder where you can download any of the
providing to assist others in interviewing farmers to quantify economic,
associated with their already adopted soil health practices. You will also
OneDrive folder with "Access Granted" subject line. Download all the Too
you do not have to re-submit the "Gain Access" form.

If you have questions about these resources, please contact AFT's Soil H
and Water Initiative Director, Dr. Michelle Perez at mperez@farmland.org
with the R-SHEC Tool, please contact Ellen Yeatman, AFT's Water Resour
Economist, at eyeatman@farmland.org.

AFT would appreciate an appropriate attribution should you use any of these
you use the methods or develop a case study! Thank you!

Access the Resources

Contact Us

American Farmland Trust
1150 Connecticut Avenue, NW, Suite 600
Washington, DC 20036
(202) 331-7300
info@farmland.org

No
No

America

Access Granted: Link AFT Soil Health Tool Kit

AF Michelle Perez, PhD from American Farmland Trust <info@farmland.org>
To Michelle Perez 5:37 PM

If there are problems with how this message is displayed, click here to view it in a web browser.

American Farmland Trust

Dear Michelle,

Thank you for completing the form to access American Farmland Trust's Retrospective Soil Health Economic Calculator and accompanying resources, known as the Soil Health Case Study Tool Kit. We will contact you with any updates to the resources.

Here is a link to the OneDrive folder where you can download any of the Tool Kit resources AFT is providing to assist others in interviewing "soil health successful" row-crop farmers and almond growers to quantify economic, water quality, and climate outcomes associated with their already adopted soil health practices.

If you have questions about these resources, please feel free to contact me, Michelle Perez, AFT's Soil Health Case Study Project Leader and Water Initiative Director, at mperez@farmland.org. For help troubleshooting problems/issues with the resources, please contact Ellen Yeatman, AFT's Water Resources Specialist and Agricultural Economist, at eyeatman@farmland.org.

TRAINING MATERIALS

- Published AFT Soil Health Case Studies
- Soil Health Tool Kit Terms of Use
- Soil Health Tool Kit Materials List
- UPDATED – Row Crop Case Study Tool Kit Training Session Syllabus: 2020 SWCS Workshop
- Row Crop Training PowerPoint
- NEW – Almond Case Study Tool Kit Training Session Syllabus: 2021 AFT-ABC Webinar
- NEW – Almond Training Session DAY 1 PowerPoint (economic methods)
- NEW – Almond Training Session DAY 2 PowerPoint (environmental analysis)

METHODS TO IDENTIFY A "SOIL HEALTH SUCCESSFUL" PRODUCER

- Criteria for Selecting "Soil Health Successful" Producers
- UPDATED – Case Study Introduction & Consent Form for the Producer
- UPDATED – Row Crop Pre-Interview Form
- NEW – Almond Pre-Interview Form
- Tips for Conducting the Interviews
- Tips for Obtaining and Selecting Photos

ECONOMIC METHODS

- UPDATED – Row Crop R-SHEC Questionnaire (Word)
- UPDATED – Row Crop R-SHEC Tool (Excel)
- NEW – Almond R-SHEC Questionnaire (Word)
- NEW – Almond R-SHEC Tool (Excel)
- NEW – Row Crop and Almond Machinery and Fertilizer Costs (Excel & PDF)
- PBA Table Suggested Wording Edits for Row Crops and Almonds (Excel)

ENVIRONMENTAL METHODS

- UPDATED – Row Crop NTT-COMET Data Intake Form
- NEW – Almond NTT-COMET Data Intake Form
- Tips to Tweak Dropdown Menus in NTT-COMET Data Intake Form
- Tips for Analyzing COMET Results
- Excel Demonstration of Analyzing COMET Results

METHODS FOR WRITING AND PRODUCING A CASE STUDY

- Case Study Template
- Guidance for Writing Case Study
- Tips for Obtaining Farmer Review
- Tasks & Hours Estimates for Producing One Case Study

My files > Documents > Soil Health Case Study Methods To

Name	Modified	Modified By	File size	Sharing
1 - Training Materials	July 12	Michelle Perez	8 items	Shared
2 - Methods to Identify a Soil Health Succ...	July 12	Michelle Perez	6 items	Shared
3 - Economic Methods	July 12	Michelle Perez	6 items	Shared
4 - Environmental Methods	July 12	Michelle Perez	5 items	Shared
5 - Methods for Writing & Producing a C...	July 12	Michelle Perez	4 items	Shared

NEW TOOLS UNDERWAY

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AFT's Economic Tools

Retrospective Soil Health Economic Tool

- For use with "soil health successful" producers
- To conduct a retrospective partial budget analysis
- To produce 2-page case studies
- Updated July 2021

Predictive Soil Health Economic Tool

- For use with "soil health curious" producers
- To conduct a predictive short-term partial budget analysis & a long-term benefits analysis
- To produce 7-page predictive assessments
- Public release this Fall

Online Soil Health Economic Tool

- A simpler, easier-to-use version of both retrospective and predictive tools
- We hope to:
  - Test the new tool with Illinois & Ohio farmers
  - Launch the new tool in 2022

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DEMO OF ONLINE ECONOMIC TOOLS

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Thank you!

Please give us feedback!

Over time, please let us know if you're using the case studies to encourage FRPP landowners or farmers to adopt soil health practices. Contact: mperez@farmland.org

We look forward to your feedback on this Case Study Session #4!
Find link in end-of-day email from Pathable.
Thank you for your feedback!

American Farmland Trust