Who would like to collaborate with AFT to develop a Whole Farm Conservation Easement and tailor the Ecosystem Services Valuation Tool for your state?

> April 23, 2025 Michelle Perez (AFT) Stacking Conservation Outcomes Session Saving America's Working Lands Conference Dallas, Texas

American Farmland Trust



Whole Farm Conservation Easement - A Pilot Project

November 13, 2024

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MINNESOTA LAND TRUST



American Farmland Trust SAVING THE LAND THAT SUSTAINS US



### **Available Resources**



- 1. Conservation Easement
- 2. Management Plan
- 3. Contract
- 4. Ecosystem Services Valuation Tool
- AFT white paper for MLT on additionality & stacking with public & private payments
- 6. This presentation in pdf

### Access via: Zoom & NALN Platform

# How do we convince landowners to include farmland in MLT conservation easements?

# Sauk River Farm



#### **Protected property: 127 acres**

- Farmland: 3 acres (food plot)
- Shoreline: 14,315 feet



# Formation of the MLT-AFT Project

#### • MLT wanted to:

- Include farmland within their natural lands easements
- Reward farmers for the ecosystem services already providing
- o Incentivize additional practice adoption on farmland
- Use a private source of funding creatively
- AFT said: Great! We'll try because:
  - Government cost-share programs are oversubscribed, use a pay for practice approach, & still not reaching many farmers
  - Ag carbon markets not paying enough nor earning farmer trust
  - Wanted to explore the ecosystem services approach to value the environmental benefits farmers are creating
- **Project Goal:** Farmers get compensated for permanent protection of their farmland & receive extra funds for achieving conservation outcomes



## Evolution of MLT's Farmland Preservation Efforts

Protect farmland with no conditions

Require riparian buffers in conservation easement

Require in-field conservation practices in management plan & contract

# Whole Farm Easement

- Ecosystem Services (ES) Valuation Tool
  - Generates payments derived from ES associated with practice changes
- Conservation easement
  - Expanded ag section contains baseline terms
- Management Plan and Contract
  - 10-year term contains agreed upon terms leading to payments



### **Ecosystem Services Valuation Tool**

#### What are Ecosystem Services?

#### Why Value Ecosystem Services?

We can value the outcome of the practices inste practice itself, allowing farmers more flexibility

#### **Difficulties with Valuing Ecosystem Serv**

Need to communicate a new idea with stakehold Difficult to quantify Ecosystem Services Hard to monetize Ecosystem Services

#### **Our Solution**

Limit the tool to Greenhouse Gas (GHG) reductic and Water Quality Benefits

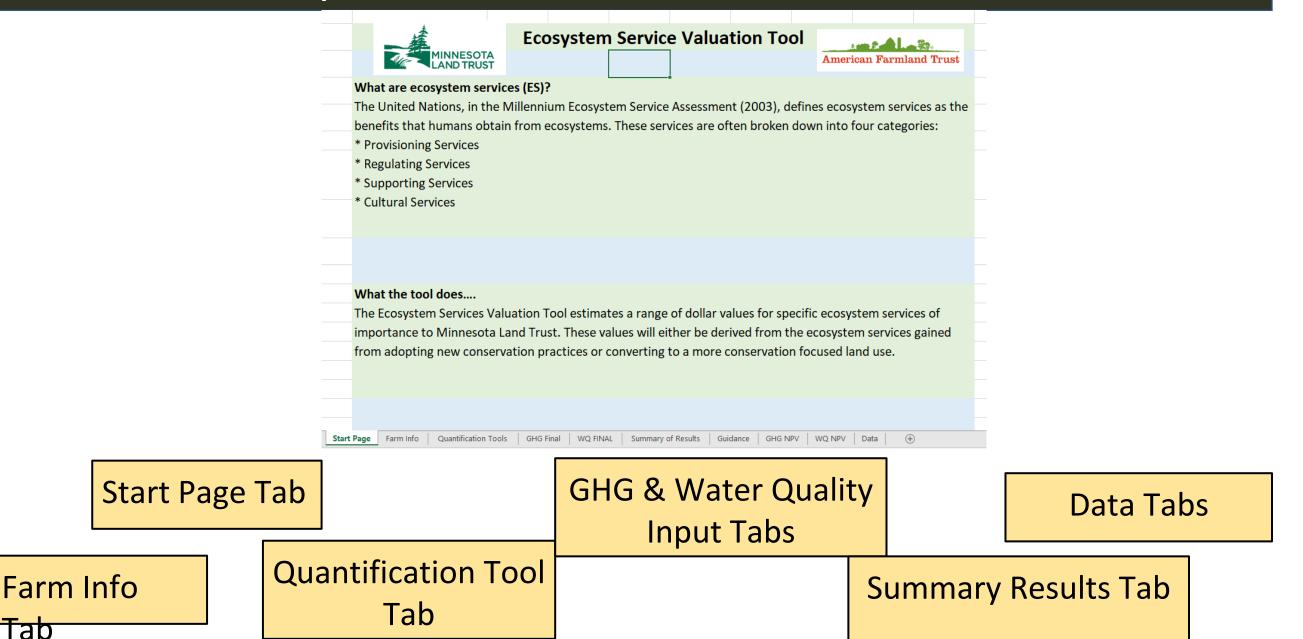


### **Ecosystem Services Valuation Tool**



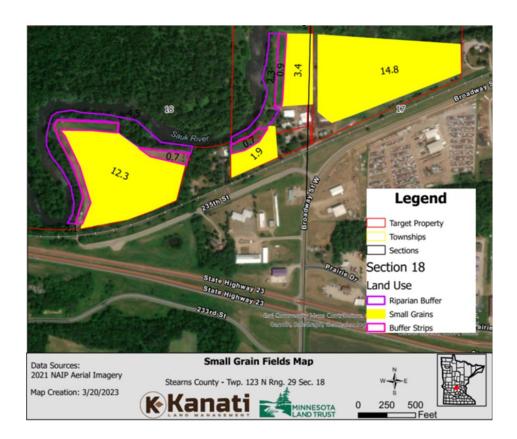
- Found 5 publicly available tools to quantify the changes in GHGs & water quality
  - 0 2 for GHG: COMET-Planner & COMET-Farm
  - 3 for water quality: MN's Watershed Pollutant
    Load Reduction Calculator Tool, Nutrient Tracking
    Tool, & PTMApp
- Within these tools there are various options
  - State vs national tools
  - Simple and quick tools vs detailed tools
- Pilot: MLT staff chose simple, quick tools

### **Ecosystem Services Valuation Tool - Excel**



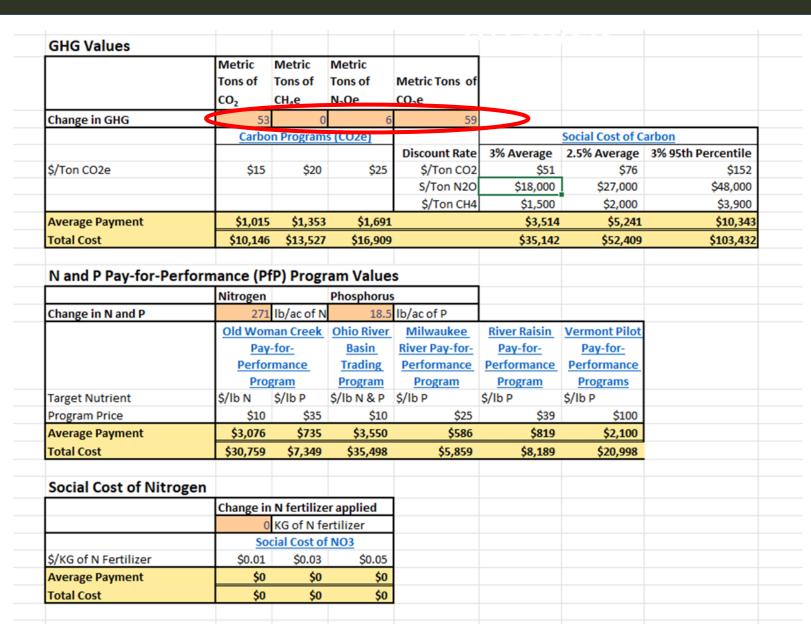
COMET-Planner Report: Estimates for Carbon Sequestration and GHG Emission Reductions (metric tons)

Location: Stearns Co, MN Project name: Sauk River Farm



NRCS Conservation Practices	Acreage	Carbon Dioxide	Nitrous Oxide	Methane	Total CO2 Equivalent
Convert Strips of Irrigated Cropland to Permanent Unfertilized Grass/Legume Cover	4.79	6	1	0	7
Restore Degraded Riparian Areas by Planting Woody Plants	11.54	25	0	N.E.**	25
Intensive Till to No Till or Strip Till (CPS 329) + Add Legume Seasonal Cover Crop (CPS 340) (with 50% Fertilizer N Reduction) on Irrigated Croplands	32.26	15	4	0	19
Intensive Till to No Till or Strip Till (CPS 329) + Add Legume Seasonal Cover Crop (CPS 340) + Replace Synthetic N Fertilizer with Compost (CN ratio 25) (CPS 590) on Non-Irrigated Croplands	9.6	7	1	0	8
Totals	58,19	53	6	0	59

### Sauk River Farm - Ecosystem Services Tool



MLT decided to offer the pilot farmer the following amounts:

- \$/Ton CO2e Payment Range:
  \$35,142-\$103,432 (Divided into 10 annual payments) or \$60 - \$178/ac/yr
- \$/lb N and \$/lb P Payment Range:
  \$35,498 \$38,105 (Divided into 10 annual payments)or \$61 \$64/ac/yr

# Legal Framework



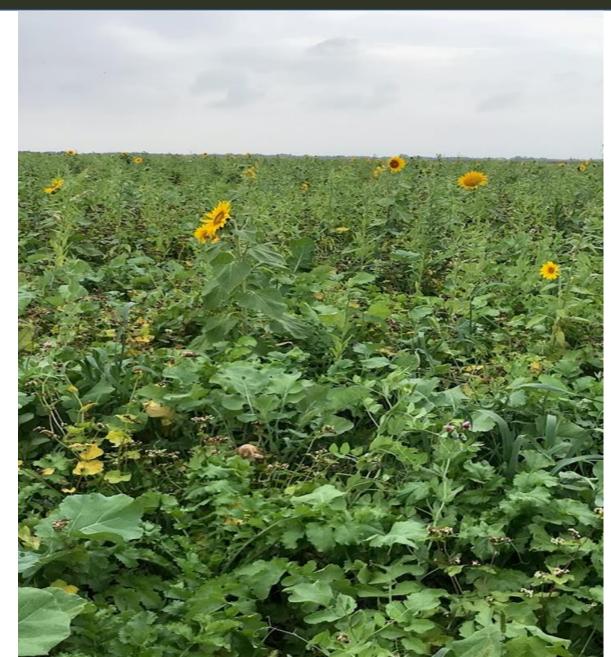
CONSERVATION EASEMENT AGRICULTURAL PRACTICES MANAGEMENT PLAN AGRICULTURAL PRACTICES MANAGEMENT PLAN CONTRACT

### **Conservation Easement**

- Delineates Conservation Values
- Rights and Restrictions
- Agricultural Use
  - Location
  - Types of Use
  - Buffers
- References Ag Management Plan

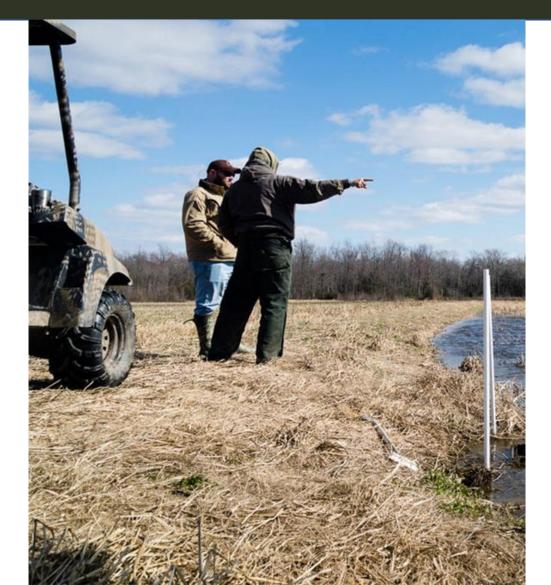


# Management Plan



- Sets forth NRCS practices negotiated between MLT and the landowner intended to, over time:
  - Build and maintain soil health, conserve soils, and sequester carbon;
  - Improve water quality;
  - Support biodiversity;
  - Improve pasture and wildlife habitat.
- 10 year term, unless earlier revised or replaced by an updated Plan

# Management Plan Contract (Agreement to Produce Ecosystem Services)



Cris

- Legally Binding Agreement
  - Sets forth management practices which landowner agrees to implement which will produce or realize certain desired ecosystem services, including:
    - Reduction of nitrogen, phosphorus, and sediment in water;
    - Reduction of GHG emissions;
    - Improvement of soil health; and
    - Other benefits
- MLT obligated to compensate landowner for the estimated ecosystem services from the practices
  - O Value of estimated ecosystem services calculated using Valuation Tool

### **Lessons Learned**

Easement Entity and Structural Challenges

Valuation Tool Challenges

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Legal and Management Plan Challenges

Financial Challenges

# **Easement Related Challenges**



- Land trust cataloging issue had to manually comb thru files to find information about farmland within conservation easements
- Permanence of easements
- Practices are not in the easement and need to be revisited every 10 years
- Carbon credits concerns conclusion to extinguish rights to credits in the easement text
- Additionality issues Can landowners still enroll in carbon markets?

# Legal and Management Plan Challenges



Questions We Haven't Answered:

- After the first 10 year contract, do we continue to pay for the ES benefits?
- What happens if the two parties can not come to an agreement over the new management plan?
- What is the best way to structure the payments?
- What constitutes noncompliance and what are the penalties?
  - Some situations are clearcut, e.g., not planting cover crops
  - While others are harder, e.g., failure to get cover crops in due to poor weather

# **Financial Challenges**

#### • Funding Sources

- Pilot project had private funds = flexibility
- Explored USDA Regional Conservation Partnership Program (RCPP) to fund easements & practices
   Challenges:
  - Matching funds requirement is high
  - Misaligned timeframes: Easements take 2 -4 y while RCPP needs measurement of outcomes within 5-yr RCPP project
- Stacking Payments
  - White paper conclusions, if a farmer wants to join:
    - NRCS programs: MLT can pay for same practices paid for by NRCS because NRCS is paying for practices while MLT is paying for ecosystem services
    - Ag carbon markets: Each market has its own rules about stacking private & public payments that the farmer must investigate



# **Ecosystem Services Approach / Valuation Challenges**



- Water quality and habitat payments
  - Difficult to find appropriate values
  - Are the values we could find appropriate to use?
    - Water programs are not from Minnesota
- Should we use Ecosystem Services (ES) as a foundation?
  - ES are a flow and constantly occurring, what about benefits before and after the 10 year window?
- Additionality?
- Money is not the only thing that moves the needle

# Land Trusts Best Fit for This

- Ideally, land trusts that are best fit for this have:
  - A focus on ag lands
  - Farm conservation practice staff expertise or consultants
  - A pot of funds for easements & for conservation incentives or fundraising capacity
  - Organizational commitment to trying something innovative



## **Recommendations for Land Trusts**

- Please use these resources
  - Hire your own ag economists to adjust the ES
    Valuation Tool to your state
- Project ideas:
  - Consider using the ES Valuation Tool with landowners with existing easements
  - Since the valuation tool does not set a price but is used to inform negotiations, try using a reverse auction to help distribute your project funds more efficiently



# Thank you! Please stay for extended discussion

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