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

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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

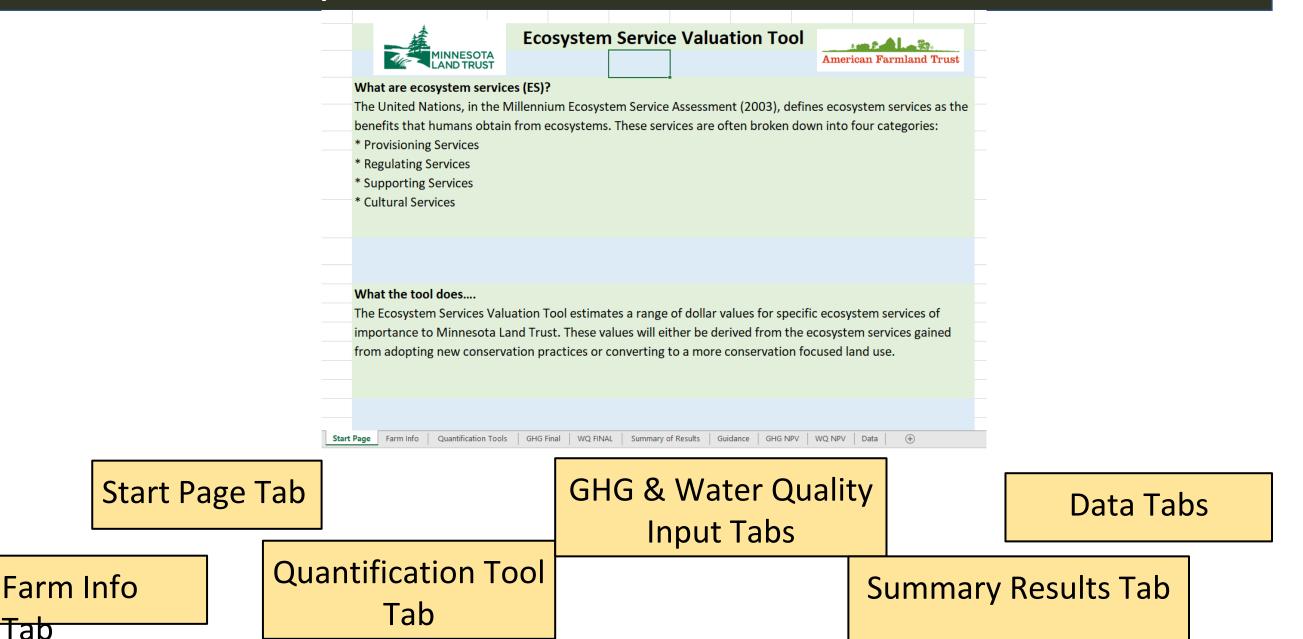


Ecosystem Services Valuation Tool



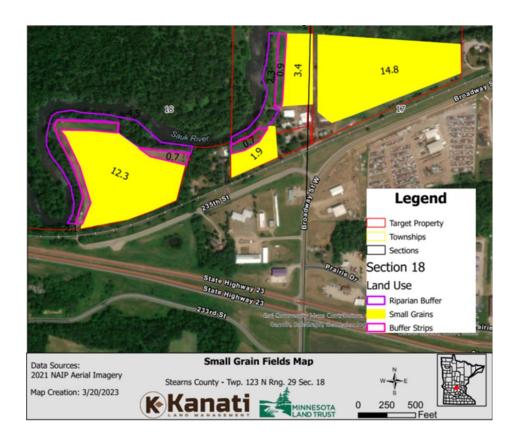
- Found 5 publicly available tools to quantify the changes in GHGs & water quality
 - 0 2 for GHG: COMET-Planner & COMET-Farm
 - 3 for water quality: MN's Watershed Pollutant
 Load Reduction Calculator Tool, Nutrient Tracking
 Tool, & PTMApp
- Within these tools there are various options
 - State vs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

Ecosystem Services Valuation Tool - Excel



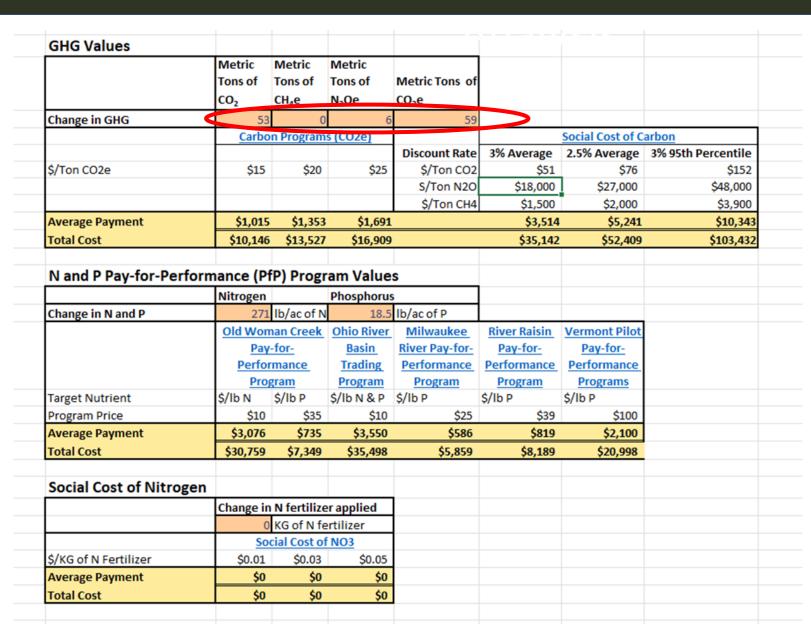
COMET-Planner Report: Estimates for Carbon Sequestration and GHG Emission Reductions (metric tons)

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



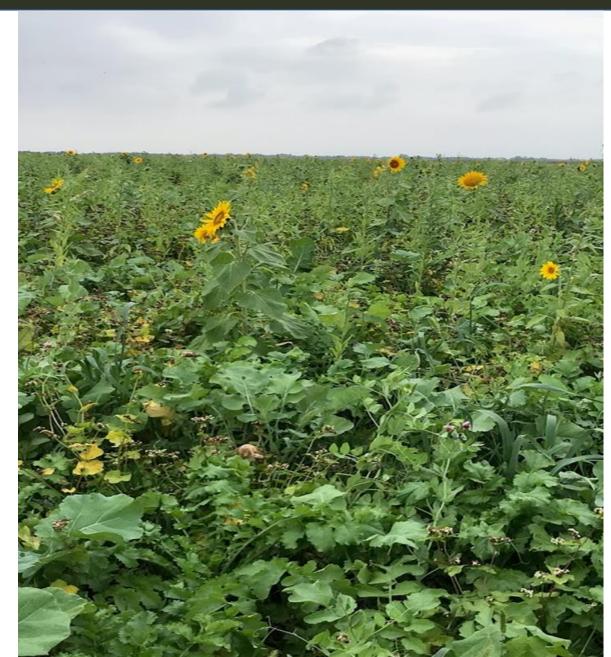
CONSERVATION EASEMENT AGRICULTURAL PRACTICES MANAGEMENT PLAN AGRICULTURAL PRACTICES MANAGEMENT PLAN CONTRACT

Conservation Easement

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

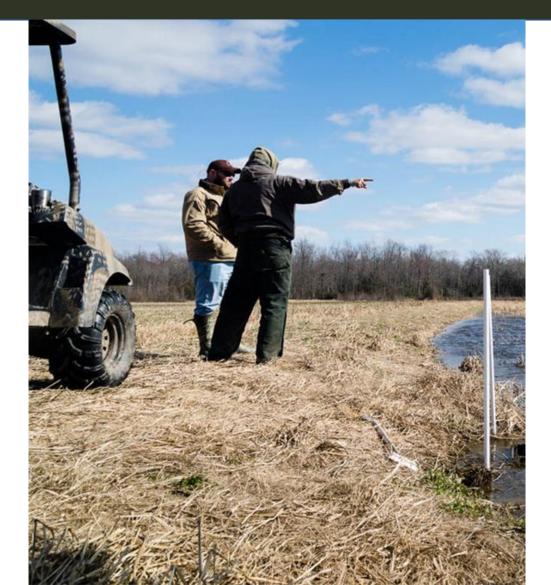


Management Plan



- 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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