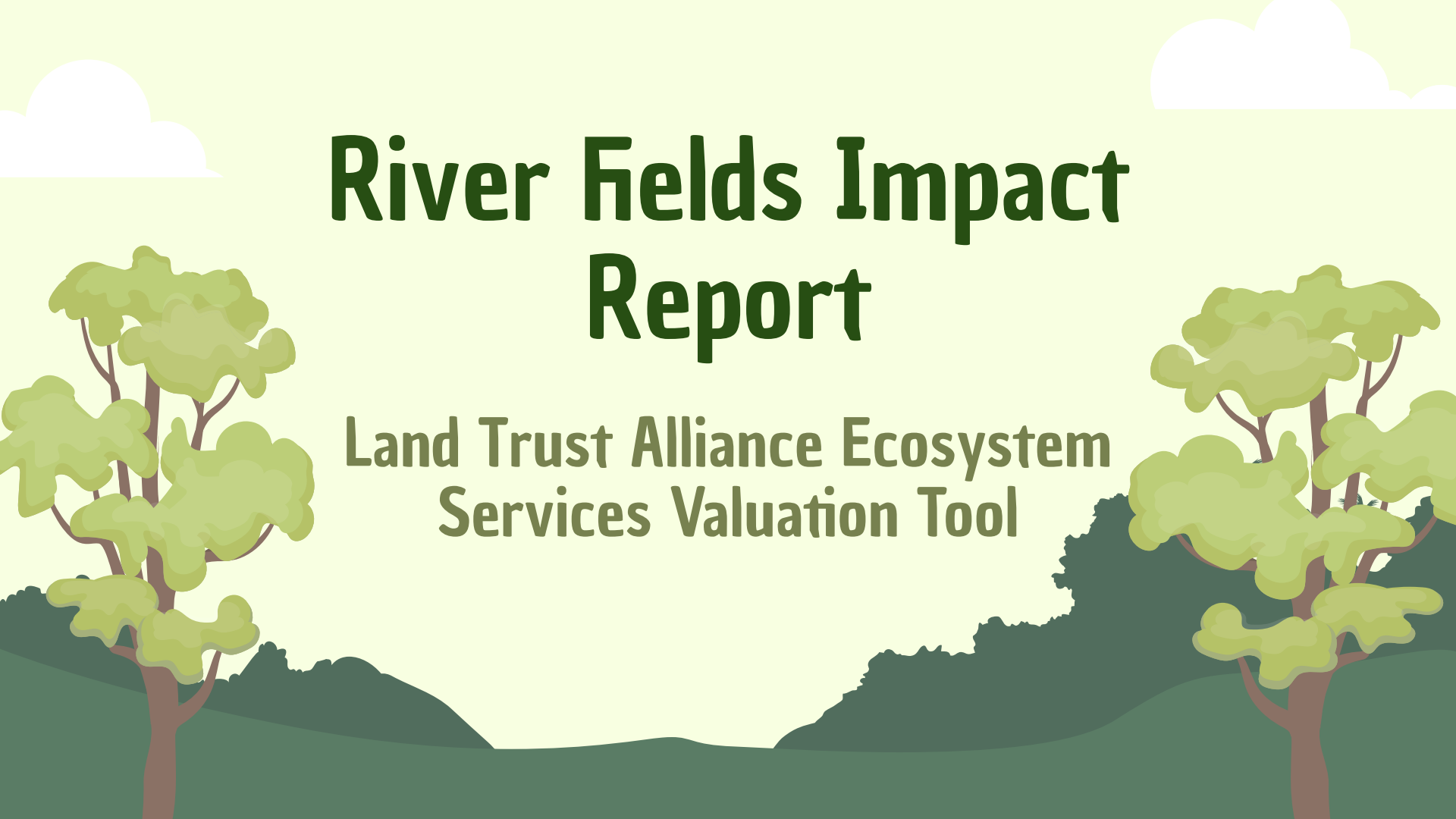




River Fields Impact Report

Land Trust Alliance Ecosystem
Services Valuation Tool

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What is the Land Trust Alliance Ecosystem Services Valuation Tool?

Ecosystem services are the benefits that people receive from natural environments, including clean air and water, wildlife habitat, recreation, climate regulation, and protection from natural hazards. The Land Trust Alliance Ecosystem Services Valuation Tool provides a way to actually quantify some of these benefits into an “ecosystem service value” amount per year, and help show a monetary output of the work River Fields does. The inputs for the tool include acreage, land type, land use, and location.

Outcome Summary

01: Social

- Cultural benefits from the preservation of historical sites
- Environmental preservation for future generations
- Community engagement on historical sites and with private landowners

02: Economic

- Economic value of the ecosystem services is around **10.3 million** in ecosystem benefits per year

03: Environmental

- Protected habitat for wildlife
- Ecosystem services
- Preservation of watersheds



Five Largest Easement Properties

Wallace Farm

(603.23 acres)

Ecosystem Service Value:

\$3,146,409

Wolf Pen Branch Mill Farm

(412 acres)

Ecosystem Service Value:

\$1,791,275

Shelby Trails Park

(387 acres)

Ecosystem Service Value:

\$2,155,871

River Glimpse Farm

(376.76 acres)

Ecosystem Service Value:

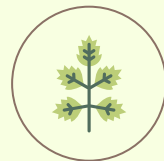
\$2,107,185

Cedar Hill Farm

(175.1 acres)

Ecosystem Service Value:

\$1,097,168



River Fields Properties - Estimated Land Type

Property	Grassland (48%)	Mixed Forest (50%)	River (2%)
Wallace Farm (603.23 ac)	289.55 ac	301.62 ac	12.06 ac
Wolf Pen Branch Mill Farm (412 ac)	197.76 ac	206.00 ac	8.24 ac
Shelby Trails Park (387 ac)	185.76 ac	193.50 ac	7.74 ac
River Glimpse Farm (376.76 ac)	180.84 ac	188.38 ac	7.54 ac
Cedar Hill Farm (175.1 ac)	84.05 ac	87.55 ac	3.50 ac

Ecosystem Services Measured by the Valuation Tool

The Land Trust Alliance Ecosystem Services Valuation Tool identifies several ecosystem services that can be used to show the value of land conservation, including climate stability, water supply, aesthetic value, habitat, recreation, non-use value, disaster risk reduction, water quality, and air quality. To the right is an example out of outputs received by the tool based on Wallace Farm, one of the larger easements.

Wallace Farm: Example

Ecosystem Service ▾	\$/year ▾
Climate Stability	\$671,622
Aesthetic Value	\$667,845
Habitat	\$444,461
Recreation	\$411,190
Water Supply	\$308,761
Non-Use Value	\$294,798
Disaster Risk Reduction	\$204,226
Water Quality	\$128,808
Air Quality	\$14,698

Total Value Per Year	\$3,146,409
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Ecosystem Service Value - Where Does it Come From?

The Land Alliance Trust Ecosystem Services Valuation Tool pulls their data from the Earth Economic SERVES Database. The Earth Economics team focuses on economic integration, beneficiary mapping, and consensus building to make sure all of the data makes sense and can be useful for land use valuation, policy makers, and research purposes. The environment can be beneficial economically, even without developing the land, and this database supports that.



Works Cited

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