



Lessard-Sams Outdoor Heritage Council

Laws of Minnesota 2015 Final Report

General Information

Date: 11/29/2021

Project Title: Southeast Minnesota Protection and Restoration - Phase III

Funds Recommended: \$2,910,000

Legislative Citation: ML 2015, First Sp. Session, Ch. 2, Art. 1, Sec. 2, Subd. 3(b)

Appropriation Language: \$2,910,000 in the first year is to the commissioner of natural resources for an agreement with The Nature Conservancy to acquire land in fee for wildlife management purposes under Minnesota Statutes, section 86A.05, subdivision 8; to acquire land in fee for scientific and natural areas under Minnesota Statutes, section 86A.05, subdivision 5; for state forest purposes under Minnesota Statutes, section 86A.05, subdivision 7; and to enhance grasslands, forest, and savanna. A list of proposed acquisitions must be provided as part of the required accomplishment plan.

Manager Information

Manager's Name: Richard Biske

Title: Freshwater Conservation Program Director

Organization: The Nature Conservancy

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Location Information

County Location(s): Fillmore, Houston and Winona.

Eco regions in which work will take place:

- Southeast Forest

Activity types:

- Protect in Fee
- Restore
- Enhance

Priority resources addressed by activity:

- Prairie
- Forest
- Habitat

Narrative

Summary of Accomplishments

The Nature Conservancy protected 78 acres of prairie and 453 acres of forest, creating 531 acres of public land with 3 miles of stream frontage for hunting and fishing. On those public lands we improved 510 acres of habitat not included in outcomes. Outcomes include 26 acres of forest restoration, 34 acres enhanced and 145 of enhanced prairie. Restored prairies and forests have added connectivity to the landscape, invasive species have been set back in critical areas for biodiversity, and high quality habitat for hunting, fishing, birding, and other outdoor recreation is newly accessible to the public.

Process & Methods

this project has two primary components: fee title acquisition of priority parcels, and restoration and enhancement of prairie and forest habitat in important complexes of protected habitat. Work done using this appropriation accomplished both of those objectives.

The Nature Conservancy used funds from this appropriation in acquiring 531 acres of land in fee from 5 landowners. These acquisition added 287 acres to 7 springs Wildlife Management Area (WMA) and Whitewater WMA under ownership of MN DNR Division of Fish and Wildlife and 244 acres to the Brightsdale and Gribben Creek units of the RJ Dorer Memorial Hardwood Forest under the Division of Forestry. This new public land protects over 3 miles of trout stream frontage, along with important forest and bluff prairie habitat. TNC worked closely with DNR in prioritizing and acquiring all of these units, and performing important restoration and enhancement work after acquisition.

Restoration and enhancement through this appropriation occurred both on tracts acquired with LSOHC funds, where TNC restored or enhanced 291 acres of forest and 110 acres of prairie, and other publicly owned land, where TNC completed projects that restored or enhanced 88 acres of forest and 226 acres of prairie. TNC worked with DNR staff, Conservation Corps MN, and local contractors to remove encroaching brush from large bluff prairies and oak savanna on several parcels. We used prescribed goat grazing to control buckthorn and honeysuckle on bluff prairies previously cleared, where a seedbank of invasive brush was threatening the restored site. We also treated invasive species in fire-dependent oak woods surrounding prairie areas, allowing future prescribed fire to manage larger areas and maintain the diverse transition zone that includes prairie, savanna and oak forest.

On several sites where bluff prairies had previously been restored, a seedbank of invasive buckthorn and honeysuckle was threatening the restorations. On these sites, TNC worked closely with staff from the Non-Game program within DNR to use prescribed goat grazing to control the encroaching brush. Repeated goat grazing is proving effective at defoliating brush on restored prairie sites that are difficult to treat through other means due to the challenging terrain. Defoliating the brush during the growing season both gradually weakens the undesirable species and frees resources for the desired grass community to re-establish on these sites. Over time, the expanding grass component will better carry fire and make prescribed burning more effective.

Both forest and prairie communities were restored on former agricultural fields, where the restoration not only added new acres of habitat, but reconnected existing habitat that had been fragmented by cropland. Prairies were

planted by broadcasting seed on bare ground in early winter to allow natural scarification over the winter. Forest sites fields were planted through direct seeding in order to provide the best chance of having sufficient seedlings survive the expected impacts of deer browsing.

Finally, funds from this appropriation were necessary to remove structures from a large acquisition project purchase with subsequent LSOHC grants. Removing the buildings is a necessary step in returning the site to a natural condition where additional prairie and forest communities can be restored along several miles of Rush Creek in Fillmore County.

Working closely with partners was key to the success of this program. TNC worked with other local stakeholders including Soil and Water Conservation Districts (SWCDs), DNR staff from multiple agencies, local contractors, and landowners in identifying opportunities, prioritizing projects, and completing them effectively. The collaboration built through this effort continues to benefit ongoing work funded through LSOHC and helps inform other conservation initiatives, such as local water planning and habitat monitoring carried out by other entities. TNC is committed to staying engaged in Southeast Minnesota and continuing the successful work of this partnership.

How did the program address habitats of significant value for wildlife species of greatest conservation need, threatened or endangered species, and/or list targeted species?

All work in this project was focused around priority conservation areas within the Blufflands Ecological Subsection, which contains more species of greatest conservation need than any other subsection in Minnesota. Conservation opportunity areas have been identified by The Nature Conservancy, MN DNR and others based on the MN Biological Survey, existing public land assets and the potential to expand and connect habitat complexes. Projects included will protect and improve habitat conditions for rare plants and animals along with popular game species in the region including whitetail deer, wild turkey and ruffed grouse. Most projects are situated along or near trout streams, protection and restoration will maintain and improve trout waters and fishing opportunities.

Projects funded through this appropriation have impacted known occurrences of 39 different plants, animals, or communities considered rare, threatened, endangered, or of special concern. These include plants such as goat's rue, snow trillium, and the endangered Iowa golden saxifrage; and animals such as timber rattlesnake, North American racer, and Blanchard's cricket frog.

How did the program use science-based targeting that leveraged or expanded corridors and complexes, reduced fragmentation, or protected areas in the MN County Biological Survey.

Enhancement and protection projects took place in conservation opportunity areas identified based on concentrations of native plant communities mapped by the MN Biological Survey (MBS) , rare features, existing conservation lands and the potential to expand habitat complexes and link them. As a result, roughly 65% of the habitat impacted by this award is of Moderate, High, or Outstanding significance to biodiversity according to the MBS.

Explain Partners, Supporters, & Opposition

The strength of our collaboration with local partners was key to our success. We collaborated with Minnesota Land Trust and the Trust for Public Land on landowner outreach. Priority areas were identified in partnership with multiple local stakeholders, especially members of the MN Forest Resource Council's Southeast Landscape Committee. We worked closely with MN DNR throughout this program from planning to implementation and follow-up. Our coordination with local Soil and Water Conservation Districts has led to improved landowner outreach and connections to local landowners.

Every parcel protected under this award required the approval of county boards. While some local officials have had reservations around the acquisition of cropland, we have been communicating pro-actively with board members around potential projects in their districts to address concerns early in the process.

Exceptional challenges, expectations, failures, opportunities, or unique aspects of program

Enhancement funding in this award ended up being critical in responding to challenges observed on several goat prairies that had been cleared of cedar and invasive brush previously. On these sites, seedbanks of buckthorn, honeysuckle, and other undesirable species presented a threat to the recovering prairie communities. Funding from this award allowed TNC to work with MN DNR's Non-Game Wildlife program to use prescribed goat grazing to control the new growth of brush. Our adaptive management approach to using this innovative method has provided important lessons on techniques, approaches, and expectations for goat grazing and how it fits within and integrated control program for buckthorn..

The opportunity to restore habitat in a fragmented landscape allowed us to knit back critical connectivity in places key to biodiversity, reversing the historical trend of fragmentation.

What other fund may contribute to this program?

- N/A

What is the plan to sustain and/or maintain this work after the Outdoor Heritage Funds are expended?

The acquisitions completed through this appropriation were partially selected based on their proximity to existing public lands, and the ability to incorporate them into existing management. The restoration and enhancement projects are aimed towards returning degraded habitats to stable natural conditions. While the first several years of restoration and enhancement can require significant follow-up to allow natural communities to re-establish, once established, diverse and resilient communities will be better able to hold off encroachment from invasive species, and require less management over time for their maintenance.

Budget

Totals

| Item | Requested | AP Amount | Spent | Antic. Leverage | Received Leverage | Leverage Source | Original Total | Final Total |
|----------------------------|--------------------|--------------------|--------------------|-----------------|-------------------|-----------------|--------------------|--------------------|
| Personnel | \$108,500 | \$118,500 | \$118,600 | - | - | - | \$108,500 | \$118,600 |
| Contracts | \$60,000 | \$481,200 | \$500,000 | - | - | - | \$60,000 | \$500,000 |
| Fee Acquisition w/ PILT | \$2,681,300 | \$2,060,600 | \$2,060,600 | - | - | - | \$2,681,300 | \$2,060,600 |
| Fee Acquisition w/o PILT | - | - | - | - | - | - | - | - |
| Easement Acquisition | - | - | - | - | - | - | - | - |
| Easement Stewardship | - | - | - | - | - | - | - | - |
| Travel | \$500 | \$2,500 | \$2,700 | - | - | - | \$500 | \$2,700 |
| Professional Services | \$20,000 | \$110,000 | \$115,100 | - | - | - | \$20,000 | \$115,100 |
| Direct Support Services | \$14,200 | \$14,200 | \$14,200 | \$19,800 | \$14,200 | TNC | \$34,000 | \$28,400 |
| DNR Land Acquisition Costs | - | \$45,000 | \$45,000 | - | - | - | - | \$45,000 |
| Capital Equipment | - | - | - | - | - | - | - | - |
| Other Equipment/Tools | - | - | - | - | - | - | - | - |
| Supplies/Materials | \$500 | \$33,000 | \$8,800 | - | - | - | \$500 | \$8,800 |
| DNR IDP | \$25,000 | \$45,000 | \$45,000 | - | - | - | \$25,000 | \$45,000 |
| Grand Total | \$2,910,000 | \$2,910,000 | \$2,910,000 | \$19,800 | \$14,200 | - | \$2,929,800 | \$2,924,200 |

Personnel

| Position | Annual FTE | Years Working | Funding Request | Antic. Leverage | Leverage Source | Total |
|----------------------------------|------------|---------------|-----------------|-----------------|-----------------|----------|
| Protection Specialist/Technician | 0.1 | 3.0 | \$37,400 | - | - | \$37,400 |
| Project Manager | 0.25 | 3.0 | \$72,200 | - | - | \$72,200 |
| Grant Administrator | 0.12 | 3.0 | \$9,000 | - | - | \$9,000 |

Direct Support Services

How did you determine which portions of the Direct Support Services of your shared support services is direct to this program?

see attachment

Explain any budget challenges or successes:

During implementation, the need for more restoration and enhancement funding was identified, and a portion of the Protect W/PILT funding was redirected towards contracts for restoration and enhancement projects. We still accomplished significant protection successes through this award, but were also able to respond to the growing need to control brush on recovering prairie sites.

Total Revenue: \$0

Revenue Spent: \$0

Revenue Balance: \$0

Of the money disclosed above, what are the appropriate uses of the money:

- E. This is not applicable as there was no revenue generated.

Output Tables

Acres by Resource Type (Table 1)

| Type | Wetland (AP) | Wetland (Final) | Prairie (AP) | Prairie (Final) | Forest (AP) | Forest (Final) | Habitat (AP) | Habitat (Final) | Total Acres (AP) | Total Acres (Final) |
|--|--------------|-----------------|--------------|-----------------|-------------|----------------|--------------|-----------------|------------------|---------------------|
| Restore | 0 | 0 | 0 | 0 | 0 | 53 | 0 | 0 | 0 | 53 |
| Protect in Fee with State PILT Liability | 0 | 0 | 80 | 78 | 523 | 453 | 0 | 0 | 603 | 531 |
| Protect in Fee w/o State PILT Liability | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Protect in Easement | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Enhance | 0 | 0 | 56 | 189 | 0 | 172 | 0 | 0 | 56 | 361 |
| Total | 0 | 0 | 136 | 267 | 523 | 678 | 0 | 0 | 659 | 945 |

How many of these Prairie acres are Native Prairie? (Table 1b)

| Type | Native Prairie (AP) | Native Prairie (Final) |
|--|---------------------|------------------------|
| Restore | 0 | 0 |
| Protect in Fee with State PILT Liability | 20 | 4 |
| Protect in Fee w/o State PILT Liability | 0 | 0 |
| Protect in Easement | 0 | 0 |
| Enhance | 56 | 51 |
| Total | 76 | 55 |

Total Requested Funding by Resource Type (Table 2)

| Type | Wetland (AP) | Wetland (Final) | Prairie (AP) | Prairie (Final) | Forest (AP) | Forest (Final) | Habitat (AP) | Habitat (Final) | Total Funding (AP) | Total Funding (Final) |
|--|--------------|-----------------|------------------|------------------|--------------------|--------------------|--------------|-----------------|--------------------|-----------------------|
| Restore | - | - | - | \$28,800 | - | \$112,100 | - | - | - | \$140,900 |
| Protect in Fee with State PILT Liability | - | - | \$402,400 | \$120,000 | \$2,429,400 | \$2,207,000 | - | - | \$2,831,800 | \$2,327,000 |
| Protect in Fee w/o State PILT Liability | - | - | - | - | - | - | - | - | - | - |
| Protect in Easement | - | - | - | - | - | - | - | - | - | - |
| Enhance | - | - | \$78,200 | \$254,200 | - | \$187,900 | - | - | \$78,200 | \$442,100 |
| Total | - | - | \$480,600 | \$403,000 | \$2,429,400 | \$2,507,000 | - | - | \$2,910,000 | \$2,910,000 |

| | | | | | | | | | | |
|--|--|--|---|---|---|---|--|--|---|---|
| | | | 0 | 0 | 0 | 0 | | | 0 | 0 |
|--|--|--|---|---|---|---|--|--|---|---|

Acres within each Ecological Section (Table 3)

| Type | Metro / Urban (AP) | Metro / Urban (Final) | Forest / Prairie (AP) | Forest / Prairie (Final) | SE Forest (AP) | SE Forest (Final) | Prairie (AP) | Prairie (Final) | N. Forest (AP) | N. Forest (Final) | Total (AP) | Total (Final) |
|--|--------------------|-----------------------|-----------------------|--------------------------|----------------|-------------------|--------------|-----------------|----------------|-------------------|------------|---------------|
| Restore | 0 | 0 | 0 | 0 | 0 | 53 | 0 | 0 | 0 | 0 | 0 | 53 |
| Protect in Fee with State PILT Liability | 0 | 0 | 0 | 0 | 603 | 531 | 0 | 0 | 0 | 0 | 603 | 531 |
| Protect in Fee w/o State PILT Liability | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Protect in Easement | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Enhance | 0 | 0 | 0 | 0 | 56 | 361 | 0 | 0 | 0 | 0 | 56 | 361 |
| Total | 0 | 0 | 0 | 0 | 659 | 945 | 0 | 0 | 0 | 0 | 659 | 945 |

Total Requested Funding within each Ecological Section (Table 4)

| Type | Metro / Urban (AP) | Metro / Urban (Final) | Forest / Prairie (AP) | Forest / Prairie (Final) | SE Forest (AP) | SE Forest (Final) | Prairie (AP) | Prairie (Final) | N. Forest (AP) | N. Forest (Final) | Total (AP) | Total (Final) |
|--|--------------------|-----------------------|-----------------------|--------------------------|--------------------|--------------------|--------------|-----------------|----------------|-------------------|--------------------|--------------------|
| Restore | - | - | - | - | - | \$140,900 | - | - | - | - | - | \$140,900 |
| Protect in Fee with State PILT Liability | - | - | - | - | \$2,831,800 | \$2,327,000 | - | - | - | - | \$2,831,800 | \$2,327,000 |
| Protect in Fee w/o State PILT Liability | - | - | - | - | - | - | - | - | - | - | - | - |
| Protect in Easement | - | - | - | - | - | - | - | - | - | - | - | - |
| Enhance | - | - | - | - | \$78,200 | \$442,100 | - | - | - | - | \$78,200 | \$442,100 |
| Total | - | - | - | - | \$2,910,000 | \$2,910,000 | - | - | - | - | \$2,910,000 | \$2,910,000 |

Target Lake/Stream/River Feet or Miles

3

Outcomes

Programs in southeast forest region:

- Large corridors and complexes of biologically diverse wildlife habitat typical of the unglaciated region are restored and protected ~ *The land protected through this award grew existing complexes of public land representative of the Driftless Area, in one case bridging two separate parcels to increase access and*

connectivity. Growing the protected area in these critical habitat complexes better maintains functioning and connected habitat for a diverse set of species.

Restoration work added connectivity to a fragmented landscape by returning habitat to previously cropped fields positioned between existing habitat.

Enhancement activities focused on improving habitat complexes that can be managed through landscape-scale processes through fire to maintain the natural heterogeneity of the region.

Parcels

Sign-up Criteria?

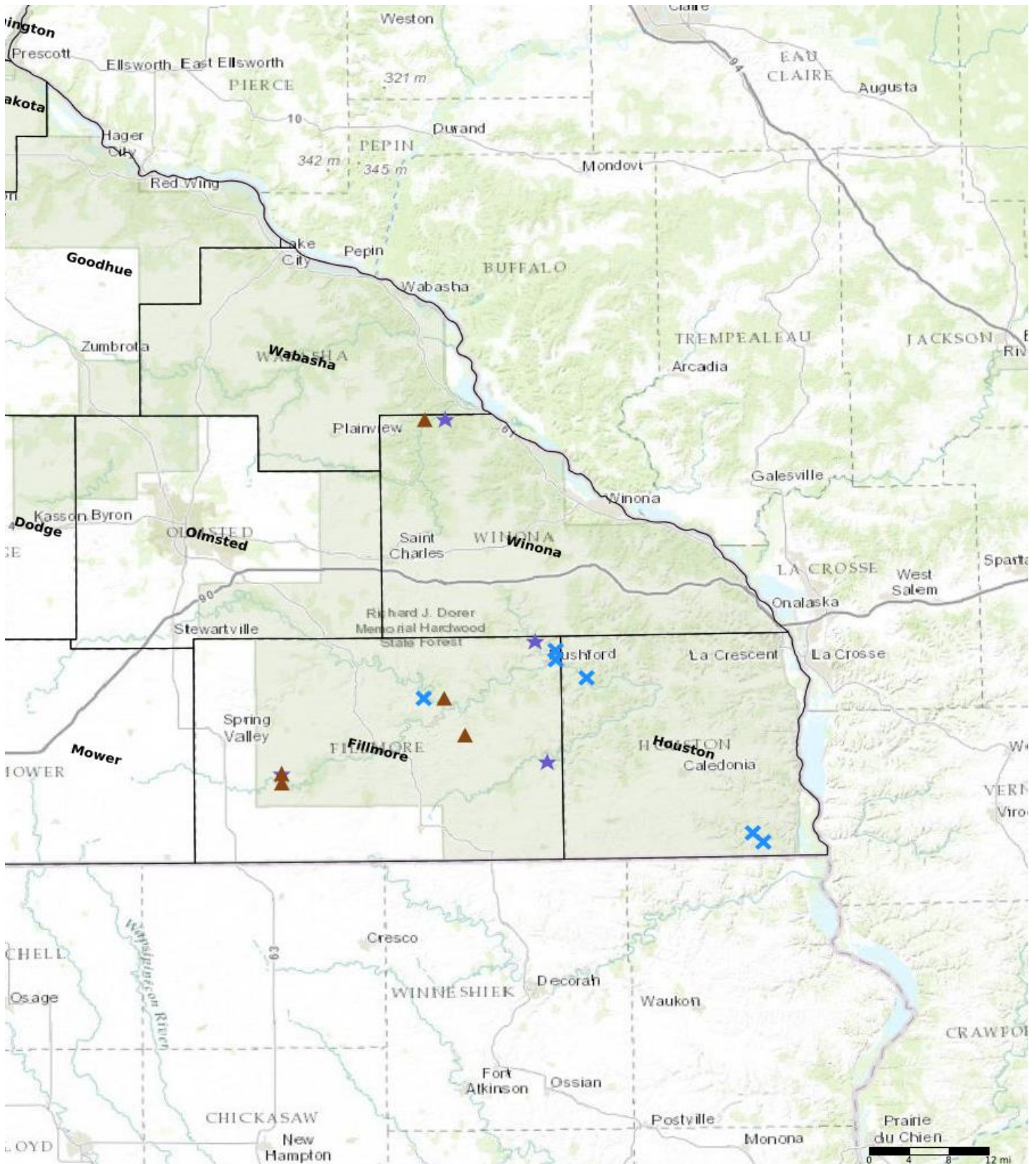
No

Restore / Enhance Parcels

| Name | County | TRDS | Acres | Est Cost | Existing Protection |
|-----------------------|----------|----------|-------|-----------|---------------------|
| Choice WMA | Fillmore | 10208211 | 165 | \$95,670 | Yes |
| Rush Creek Woods | Fillmore | 10408212 | 29 | \$16,150 | Yes |
| 7 Springs WMA | Fillmore | 10212216 | 0 | \$102,934 | Yes |
| Brightsdale Oak Woods | Fillmore | 10310202 | 34 | \$47,775 | Yes |
| Rush Creek B | Fillmore | 10408203 | 0 | \$146,530 | Yes |
| Olson Tract | Fillmore | 10408213 | 15 | \$19,610 | Yes |
| Anderson Tract | Houston | 10104219 | 48 | \$36,936 | Yes |
| Hammel Unit | Houston | 10104229 | 37 | \$45,875 | Yes |
| Vinegar Ridge | Houston | 10407228 | 60 | \$36,660 | Yes |
| Whitewater Fields | Winona | 10809206 | 26 | \$34,860 | Yes |

Protect Parcels

| Name | County | TRDS | Acres | Est Cost | Existing Protection |
|-------------|----------|----------|-------|-----------|---------------------|
| Gribben | Fillmore | 10309228 | 112 | \$386,200 | No |
| Brightsdale | Fillmore | 10309206 | 132 | \$455,700 | No |
| 7 Springs 3 | Fillmore | 10212221 | 66 | \$225,000 | Yes |
| Fillmore 1 | Fillmore | 10212216 | 177 | \$278,000 | No |
| Winona 2 | Winona | 10810202 | 44 | \$145,000 | No |



Parcel Map
Southeast Minnesota Protection and Restoration -
Phase III
 (Data Generated From Parcel List)

- Protect in Easement
- ▲ Protect in Fee with PILT
- Protect in Fee W/O PILT
- ★ Restore
- ✕ Enhance
- ⊕ Other