

Lessard-Sams Outdoor Heritage Council

Laws of Minnesota 2018 Accomplishment Plan

HRE 11



Date: October 13, 2017

Program or Project Title: DNR Aquatic Habitat Restoration and Enhancement

Funds Recommended: \$ 2,834,000

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Legislative Citation: ML 2018, Ch. X, Art. 1, Sec. 2, subd XX

Appropriation Language:

County Locations: Aitkin, Anoka, Becker, Becker , Beltrami, Benton, Big Stone, Brown, Carlton, Carver, Cass, Chisago, Clay, Cook , Crow Wing, Dakota, Douglas, Fillmore, Goodhue, Houston, Hubbard, Itasca, Kandiyohi, Kanebec, Lake, Lake of the Woods, Le Sueur, Marshall, McLeod, Meeker, Mille Lacs, Morrison, Mower, Nicollet, Otter Tail, Pine, Pope, Redwood, Renville, Rice, Scott, St Louis, St. Louis, St Louis and Lake, Todd, Wabasha, Waseca, Winona, and Wright.

Regions in which work will take place:

- Forest / Prairie Transition
- Metro / Urban
- Northern Forest
- Prairie
- Southeast Forest

Activity types:

- Enhance
- Restore

Priority resources addressed by activity:

- Habitat

Abstract:

Good habitat is critical to sustaining quality fish populations in both lakes and rivers. DNR proposes to restore or enhance aquatic habitat under two programs: stream restoration, and Aquatic Management Area (AMA) enhancement. Stream restoration includes major channel restorations and fish passage projects such as dam removals intended to improve or provide access to critical aquatic habitats. AMA enhancement will improve habitat on shorelines and their associated uplands, providing critical spawning habitat for fish, and riparian habitat critical for many species of amphibians, turtles, and birds.

Design and scope of work:

Projects planned through this appropriation fall into two categories: stream restoration, and Aquatic Management Area enhancement. Through these programs, DNR will complete habitat projects on both lakes and rivers for the benefit of fish and other aquatic species.

MN DNR is a national leader in stream restoration, having innovated and refined restoration techniques of the past 30+ years. An

example is the removal or modification of dams on the Red River to allow fish passage, which has resulted in native fish (e.g., channel catfish and walleye) returning or increasing in reaches upstream of former barriers. Projects in our plan are prioritized based on factors such as the scale of benefiting waters, local support, rare species, and project urgency. Quite often dam removal/modification projects are done on old dams in need of repair. If removal/modification funds are not available, it is possible that partners may seek funds elsewhere to repair or replace the dam, which represents a potential missed opportunity to address fish passage. Our prioritized list includes submissions from several partners including watershed districts, local governments, and Soil and Water Conservation Districts (SWCDs). Partners are often able to handle local logistics and provide some in-kind or financial match. In this accomplishment plan we have included 12 stream restoration projects, which includes 5 channel restorations and 7 fish passage projects. This plan also continues support of a position previously funded LSOHF that coordinates stream restoration projects, providing surveying, design, permitting, and contracting support to enable DNR to complete these additional projects. The amount of funding recommended by the Lessard Council is not sufficient to complete all of the projects on our parcel table. We will select projects based on our prioritized list (included in attachments), completing our top projects as funding allows. We currently expect to complete the North Fork Zumbro River and Miller Creek channel restorations, and the Shell River fish passage project. If we are successful in securing additional funds from other grants, we may be able to complete additional projects. All stream projects will utilize Natural Channel Design methods in order to create long-lasting projects with appropriate habitat.

DNR owns almost 1,400 AMA parcels totaling over 34,000 acres of lake and river shoreline and associated uplands. These parcels encompass critical habitat for fish, turtles, frogs, and birds that depend on shoreline habitat. Quality habitat often requires ongoing maintenance such as invasive plant removal, prescribed burns, and planting of native species. The DNR's Section of Fisheries manages AMAs but has limited capacity and expertise to manage these lands. This proposal requests continued funding for positions previously funded by LSOHF who are tasked with designing, contracting, and overseeing AMA enhancement work. Also included are project dollars that will be used to enhance 265 acres of AMA habitat.

How does the request address MN habitats that have: historical value to fish and wildlife, wildlife species of greatest conservation need, MN County Biological Survey data, and/or rare, threatened and endangered species inventories:

The proposed fish passage projects on the Pelican River (Elizabeth Dam and Pelican Rapids Dam) are both opportunities to create connectivity and spawning habitat for lake sturgeon (species of greatest conservation need) which are being restored in the Red River basin. In addition, creek heelsplitter and fluted-shell mussels (both threatened) are only found downstream of the Pelican Rapids Dam, prevented from accessing habitat upstream. The Whetstone River project would create suitable habitat for the mucket mussel (threatened) which is found downstream. On the Pine River in Crow Wing County, black sandshell mussels are only found downstream of the Norway Lake Dam.

Describe the science based planning and evaluation model used:

Barriers to migration are one of the biggest stressors on aquatic life, at times resulting in the loss of species. The fish passage projects in this proposal will greatly enhance connectivity of habitat along river systems, reducing fragmentation that has resulted in the loss of fish and mussel species, some of which are state-listed as threatened. There are 6 such projects in this proposal, providing access to almost 10,000 acres of critical locations that may serve as habitat for spawning, rearing, over-wintering, or refuge from low flow.

Many AMAs contain native plant communities identified by the MN County biological survey. Habitat enhancement proposed in this request will help to maintain the quality of these communities into the future, rather than allowing them to be degraded by invasive species, woody encroachment, or other threats.

Which sections of the Minnesota Statewide Conservation and Preservation Plan are applicable to this program:

- H5 Restore land, wetlands and wetland-associated watersheds
- H6 Protect and restore critical in-water habitat of lakes and streams

Which other plans are addressed in this program:

- Minnesota DNR Strategic Conservation Agenda
- Red River of the North Fisheries Management Plan

Which LSOHC section priorities are addressed in this program:

Forest / Prairie Transition:

- Protect, enhance, and restore wild rice wetlands, shallow lakes, wetland/grassland complexes, aspen parklands, and shoreland that

provide critical habitat for game and nongame wildlife

Metro / Urban:

- Protect, enhance, and restore riparian and littoral habitats on lakes to benefit game and nongame fish species

Northern Forest:

- Protect shoreland and restore or enhance critical habitat on wild rice lakes, shallow lakes, cold water lakes, streams and rivers, and spawning areas

Prairie:

- Restore or enhance habitat on public lands

Southeast Forest:

- Protect, enhance, and restore habitat for fish, game, and nongame wildlife in rivers, cold-water streams, and associated upland habitat

Relationship to other funds:

- Clean Water Fund

Describe the relationship of the funds:

The Clean Water Fund supports local governments in implementing projects in lakes and rivers to address known or potential impairments. However, they do not typically fund "habitat" projects such as dam removals or modifications. In addition, MNDNR is not eligible for implementation money from the Clean Water Fund.

How does this program include leverage in funds or other effort to supplement any OHF appropriation:

The Red River Flood Damage funds are committed as a match toward restoration of Stony Creek. In addition to the habitat benefits of this project, a reconnected floodplain will increase flood storage on Stony Creek and reduce flooding downstream on the Red River. Local governments are expected to provide some local match for projects on the Shell River, Miller Creek, Bostic Creek, the Pelican Rapids Dam, and Norway Lake Dam. The match may be in-kind or a financial contribution. However, none of those funds are currently committed and so we do not list them in the budget table. The Whetstone project is similar, with potential to leverage up to \$1.8 million for a number of different sources. We hope to under-promise but over-perform on match for this request.

Per MS 97A.056, Subd. 24, Any state agency or organization requesting a direct appropriation from the OHF must inform the LSOHC at the time of the request for funding is made, whether the request is supplanting or is a substitution for any previous funding that was not from a legacy fund and was used for the same purpose:

This request supplements existing sources of funding by accomplishing work that would not have been implemented but for the appropriation, or accomplishing work at a level not attainable but for the appropriation.

Describe the source and amount of non-OHF money spent for this work in the past:

Appropriation Year	Source	Amount
2012	Game and Fish, Heritage Enhancement, and Federal Grants	2,404,000
2013	Game and Fish, Heritage Enhancement, and Federal Grants	4,062,000
2014	Game and Fish, Heritage Enhancement, and Federal Grants	2,843,000
2016	Game and Fish, Heritage Enhancement, and Federal Grants	3,267,000

How will you sustain and/or maintain this work after the Outdoor Heritage Funds are expended:

Fish passage and channel restoration projects generally do not require ongoing maintenance except during the 3-year window of vegetation establishment. For AMA enhancement projects and trout stream enhancement, DNR has access to several potential funding sources for subsequent maintenance, including the Game and Fish Fund, the Heritage Enhancement Account, and Trout and Salmon Stamps. In addition, the DNR may seek additional funds from external sources such as the Glacial Lakes Partnership, the Natural Resources Trust Fund, or the Outdoor Heritage Fund.

Explain the things you will do in the future to maintain project outcomes:

Year	Source of Funds	Step 1	Step 2	Step 3
First year post-project	LSOHF	Inspect for maintenance needs	Adjust project as needed	Plant native species
Second year post-project	LSOHF	Inspect for maintenance needs	Adjust project as needed	Ensure establishment of native species through techniques such as controlling invasives
Third year post-project	LSOHF	Inspect for maintenance needs	Adjust project as needed	Ensure establishment of native species through techniques such as controlling invasives

Activity Details:

If funded, this program will meet all applicable criteria set forth in MS 97A.056 - **Yes**

Will there be planting of corn or any crop on OHF land purchased or restored in this program - **No**

Will restoration and enhancement work follow best management practices including MS 84.973 Pollinator Habitat Program - **Yes**

Is the activity on permanently protected land per 97A.056, subd 13(f), tribal lands, and/or public waters per MS 103G.005, Subd. 15 - **Yes (AMA, County/Municipal, Public Waters)**

Accomplishment Timeline:

Activity	Approximate Date Completed
Stream restoration project design	September 2019
Stream restoration permitting	March 2020
Stream restoration construction	October 2022
Stream restoration vegetation maintenance	June 2023
AMA enhancement	June 2023

Date of Final Report Submission: 11/1/2023

Federal Funding:

Do you anticipate federal funds as a match for this program - **No**

Outcomes:

Programs in the northern forest region:

- Improved aquatic habitat indicators *Fisheries monitoring programs through the DNR and PCA are designed to assess the relative health of aquatic systems through the use of tools such as indices of biotic integrity (IBI), the MN Stream Habitat Assessment, and Score-Your-Shore. These can all be used to assess tour success in achieving outcomes for these projects.*

Programs in forest-prairie transition region:

- Rivers and streams provide corridors of habitat including intact areas of forest cover in the east and large wetland/upland complexes in the west *All restoration and enhancement projects on rivers include restoration of the riparian area into native vegetation. We will monitor the success of plant establishment and conduct maintenance as needed during the 2-3 year establishment period to insure that sites are part of a healthy riparian corridor.*

Programs in metropolitan urbanizing region:

- A network of natural land and riparian habitats will connect corridors for wildlife and species in greatest conservation need Our work in the metro region will involve enhancement on AMA parcels. These lands are located in complexes of habitat, with corridors of riparian habitat connecting larger blocks of land in native vegetation. We will monitor enhancement projects to insure that they are successful in their goals of creating quality habitat based on the mix of native plant species present as compared to pre-project.

Programs in southeast forest region:

- Rivers, streams, and surrounding vegetation provide corridors of habitat All restoration and enhancement projects on rivers include restoration of the riparian area into native vegetation. We will monitor the success of plant establishment and conduct maintenance as needed during the 2-3 year establishment period to insure that sites are part of a healthy riparian corridor.

Programs in prairie region:

- Improved condition of habitat on public lands Our AMA enhancement program will monitor all projects to insure that outcome goals are being met by looking at the diversity and abundance of native plant species that are supported by project sites as compared to pre-project.

Budget Spreadsheet

Budget reallocations up to 10% do not require an amendment to the Accomplishment Plan

How will this program accommodate the reduced appropriation recommendation from the original proposed requested amount

We have chosen to reduce the amount spent in salary through reductions in positions, years of position funding, and FTE equivalents. We will implement stream projects based on our prioritized list, completing the highest priorities with available funding. We will look at other funding options for trout stream enhancement.

Total Amount of Request: \$ 2834000

Budget and Cash Leverage

BudgetName	LSOHC Request	Anticipated Leverage	Leverage Source	Total
Personnel	\$906,000	\$0		\$906,000
Contracts	\$1,632,200	\$0		\$1,632,200
Fee Acquisition w/ PILT	\$0	\$0		\$0
Fee Acquisition w/o PILT	\$0	\$0		\$0
Easement Acquisition	\$0	\$0		\$0
Easement Stewardship	\$0	\$0		\$0
Travel	\$20,000	\$0		\$20,000
Professional Services	\$170,000	\$0		\$170,000
Direct Support Services	\$90,800	\$0		\$90,800
DNR Land Acquisition Costs	\$0	\$0		\$0
Capital Equipment	\$0	\$0		\$0
Other Equipment/Tools	\$0	\$0		\$0
Supplies/Materials	\$15,000	\$0		\$15,000
DNR IDP	\$0	\$0		\$0
Total	\$2,834,000	\$0		\$2,834,000

Personnel

Position	FTE	Over # of years	LSOHC Request	Anticipated Leverage	Leverage Source	Total
AMA enhancement specialist	2.00	3.00	\$436,800	\$0		\$436,800
AMA enhancement technician	0.50	3.00	\$85,000	\$0		\$85,000
AMA contracting	0.50	3.00	\$109,200	\$0		\$109,200
Stream Restoration Coordinator	1.00	2.00	\$225,000	\$0		\$225,000
Stream Restoration Interns	1.00	2.00	\$50,000	\$0		\$50,000
Total	5.00	13.00	\$906,000	\$0		\$906,000

Amount of Request: \$2,834,000

Amount of Leverage: \$0

Leverage as a percent of the Request: 0.00%

DSS + Personnel: \$996,800

As a % of the total request: 35.17%

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

Departmental formula calculated by DNR Office of Management and Budget Services.

Does the amount in the contract line include R/E work?

The full amount of contract funding will be spent on R/E work.

Describe and explain leverage source and confirmation of funds:

Our proposal included matching funds for the Stony Creek channel restoration, but allocated funding will not allow us to complete that project. As a result we have no in-hand match at this time. We will seek opportunities to find matching funds to stretch OH funds to complete more projects.

Output Tables

Table 1a. Acres by Resource Type

Type	Wetlands	Prairies	Forest	Habitats	Total
Restore	0	0	0	15	15
Protect in Fee with State PILT Liability	0	0	0	0	0
Protect in Fee W/O State PILT Liability	0	0	0	0	0
Protect in Easement	0	0	0	0	0
Enhance	0	0	0	265	265
Total	0	0	0	280	280

Table 2. Total Funding by Resource Type

Type	Wetlands	Prairies	Forest	Habitats	Total
Restore	\$0	\$0	\$0	\$2,001,300	\$2,001,300
Protect in Fee with State PILT Liability	\$0	\$0	\$0	\$0	\$0
Protect in Fee W/O State PILT Liability	\$0	\$0	\$0	\$0	\$0
Protect in Easement	\$0	\$0	\$0	\$0	\$0
Enhance	\$0	\$0	\$0	\$832,700	\$832,700
Total	\$0	\$0	\$0	\$2,834,000	\$2,834,000

Table 3. Acres within each Ecological Section

Type	Metro Urban	ForestPrairie	SEForest	Prairie	N Forest	Total
Restore	0	0	9	0	6	15
Protect in Fee with State PILT Liability	0	0	0	0	0	0
Protect in Fee W/O State PILT Liability	0	0	0	0	0	0
Protect in Easement	0	0	0	0	0	0
Enhance	20	25	20	100	100	265
Total	20	25	29	100	106	280

Table 4. Total Funding within each Ecological Section

Type	Metro Urban	ForestPrairie	SEForest	Prairie	N Forest	Total
Restore	\$0	\$0	\$920,400	\$0	\$1,080,900	\$2,001,300
Protect in Fee with State PILT Liability	\$0	\$0	\$0	\$0	\$0	\$0
Protect in Fee W/O State PILT Liability	\$0	\$0	\$0	\$0	\$0	\$0
Protect in Easement	\$0	\$0	\$0	\$0	\$0	\$0
Enhance	\$62,800	\$78,500	\$62,800	\$314,100	\$314,500	\$832,700
Total	\$62,800	\$78,500	\$983,200	\$314,100	\$1,395,400	\$2,834,000

Table 5. Average Cost per Acre by Resource Type

Type	Wetlands	Prairies	Forest	Habitats
Restore	\$0	\$0	\$0	\$133420
Protect in Fee with State PILT Liability	\$0	\$0	\$0	\$0
Protect in Fee W/O State PILT Liability	\$0	\$0	\$0	\$0
Protect in Easement	\$0	\$0	\$0	\$0
Enhance	\$0	\$0	\$0	\$3142

Table 6. Average Cost per Acre by Ecological Section

Type	Metro/Urban	Forest/Prairie	SE Forest	Prairie	Northern Forest
Restore	\$0	\$0	\$102267	\$0	\$180150
Protect in Fee with State PILT Liability	\$0	\$0	\$0	\$0	\$0
Protect in Fee W/O State PILT Liability	\$0	\$0	\$0	\$0	\$0
Protect in Easement	\$0	\$0	\$0	\$0	\$0
Enhance	\$3140	\$3140	\$3140	\$3141	\$3145

Target Lake/Stream/River Feet or Miles

2.5 miles

Parcel List

For restoration and enhancement programs ONLY: Managers may add, delete, and substitute projects on this parcel list based upon need, readiness, cost, opportunity, and/or urgency so long as the substitute parcel/project forwards the constitutional objectives of this program in the Project Scope table of this accomplishment plan. The final accomplishment plan report will include the final parcel list.

Section 1 - Restore / Enhance Parcel List

Aitkin

Name	TRDS	Acres	EstCost	Existing Protection?
Cedar Lake AMA	04727232	2	\$1,500	Yes
Mud River	04527205	10	\$10,000	Yes

Anoka

Name	TRDS	Acres	EstCost	Existing Protection?
Ham Lake	03223220	7	\$3,500	Yes

Becker

Name	TRDS	Acres	EstCost	Existing Protection?
Bad Medicine	14237208	3	\$2,000	Yes
Bucks Mill	13842236	45	\$8,500	Yes
Detroit Lake Headquarters	13841208	20	\$10,000	Yes
Long Lake	13941229	8	\$3,500	Yes
Shell River	14037215	1	\$125,000	Yes
Straight Lake (Osage Pond)	14036229	10	\$5,000	Yes

Becker

Name	TRDS	Acres	EstCost	Existing Protection?
Upper Cormorant AMA	13843205	64	\$32,500	Yes
Upper Cormorant (Island) AMA	13843208	1	\$2,000	Yes

Beltrami

Name	TRDS	Acres	EstCost	Existing Protection?
Bemidji Lake (north)	14733216	15	\$3,500	Yes
Bemidji Lake (south)	14633215	5	\$4,500	Yes
Blackduck Lake	14931210	4	\$2,000	Yes

Benton

Name	TRDS	Acres	EstCost	Existing Protection?
Little Rock Lake AMA	03731210	12	\$1,500	Yes

Big Stone

Name	TRDS	Acres	EstCost	Existing Protection?
MN River Headwaters	12146209	6	\$4,000	Yes
Whetstone River	12146216	16	\$2,000,000	Yes

Brown

Name	TRDS	Acres	EstCost	Existing Protection?
Cottonwood River	10932203	18	\$9,000	Yes

Carlton

Name	TRDS	Acres	EstCost	Existing Protection?
Blackho of River	04717227	20	\$3,500	Yes

Carver

Name	TRDS	Acres	EstCost	Existing Protection?
Lotus Lake	11623201	5	\$39,000	Yes

Cass

Name	TRDS	Acres	EstCost	Existing Protection?
Agate Rearing Pond	13529232	9	\$1,500	Yes
Ah Gwah Ching	14231235	20	\$25,000	Yes
Grassy Point	13529221	15	\$3,500	Yes
Pine River/Norway Lake Dam	13829231	1	\$1,000,000	Yes
Woman Lake	14029222	5	\$7,500	Yes

Chisago

Name	TRDS	Acres	EstCost	Existing Protection?
Sunrise Lake	03420217	20	\$10,000	Yes

Clay

Name	TRDS	Acres	Est Cost	Existing Protection?
Silver Lake	13945226	105	\$36,500	Yes
Stony Creek	13746203	49	\$1,944,000	Yes

Cook

Name	TRDS	Acres	Est Cost	Existing Protection?
Cascade River	06102224	40	\$13,500	Yes
Cedar Creek AMA	06005223	10	\$3,500	Yes
Devil Track River	06201221	40	\$18,500	Yes
Swamp River	06304229	40	\$13,500	Yes

Crow Wing

Name	TRDS	Acres	Est Cost	Existing Protection?
Bertha Moody Lake	13528232	35	\$7,500	Yes
North Long Lake	13428204	55	\$15,000	Yes

Dakota

Name	TRDS	Acres	Est Cost	Existing Protection?
South Branch Vermillion River	11418229	28	\$40,700	Yes

Douglas

Name	TRDS	Acres	Est Cost	Existing Protection?
Big Chippewa Lake	12939201	7	\$2,000	Yes
Bliss	13037221	8	\$3,500	Yes
Crestwood Hills	12837204	6	\$3,500	Yes
Geneva Lake	12837221	10	\$2,000	Yes
Jessie Lake	12837227	5	\$2,000	Yes
Lake Carlos Dam	12937215	1	\$180,000	Yes
Mary Lake	12738216	20	\$4,500	Yes
Milto na Lake	13037232	15	\$3,500	Yes
West Rachel Shores	12739215	6	\$9,000	Yes

Fillmore

Name	TRDS	Acres	Est Cost	Existing Protection?
Etna Creek	10213236	38	\$26,000	Yes
Lanesboro Hatchery	10310226	10	\$3,000	Yes
Peterson Trout Hatchery	10408232	20	\$5,000	Yes

Goodhue

Name	TRDS	Acres	Est Cost	Existing Protection?
Gemini	11217207	52	\$23,800	Yes

Houston

Name	TRDS	Acres	Est Cost	Existing Protection?
Pine Creek (New Hartford)	10505230	7	\$161,000	Yes

Hubard

Name	TRDS	Acres	Est Cost	Existing Protection?
Kabekona Lake	14332224	10	\$7,500	Yes

Itasca

Name	TRDS	Acres	Est Cost	Existing Protection?
Bender AMA	15028210	10	\$3,500	Yes
Crawford Island	05626217	10	\$1,500	Yes
Dixon Lake AMA	14829224	15	\$15,000	Yes
Island Lake AMA	15028205	5	\$1,500	Yes
Pokegama Lake	05426204	5	\$1,500	Yes
Sugar Brook AMA	05426203	10	\$1,500	Yes

Kandiyohi

Name	TRDS	Acres	Est Cost	Existing Protection?
Elizabeth Lake	11833203	40	\$48,000	Yes
Games Lake	12235232	2	\$6,000	Yes
Green Lake	12034210	10	\$4,800	Yes
Kasota Lake	11934236	4	\$7,200	Yes
Middle Lake	12135209	8	\$4,000	Yes
New London hatchery	12134209	5	\$2,500	Yes
Norway Lake	12135205	26	\$9,800	Yes

Kanebec

Name	T RDS	Acres	Est Cost	Existing Protection?
Little Knife	04124221	60	\$20,000	Yes

Lake

Name	T RDS	Acres	Est Cost	Existing Protection?
Manitou River	05806206	20	\$3,500	Yes
Split Rock River	05509217	20	\$3,500	Yes

Lake of the Woods

Name	T RDS	Acres	Est Cost	Existing Protection?
Bostic Creek	16133212	60	\$500,000	Yes

Le Sueur

Name	T RDS	Acres	Est Cost	Existing Protection?
St Peter	11026214	17	\$13,400	Yes
Tetonka Lake	10923217	4	\$2,000	Yes
Waterville Hatchery	10923229	25	\$15,000	Yes

Marshall

Name	T RDS	Acres	Est Cost	Existing Protection?
Frank Rose	15750230	25	\$3,000	Yes

McLeod

Name	T RDS	Acres	Est Cost	Existing Protection?
Hutchinson FMA	11730235	6	\$5,500	Yes

Meeker

Name	T RDS	Acres	Est Cost	Existing Protection?
Minniebelle Lake	11831212	21	\$20,000	Yes
North Fork Crow River	12132224	45	\$29,500	Yes
Thompson Lake	11732217	50	\$6,500	Yes

Mille Lacs

Name	T RDS	Acres	Est Cost	Existing Protection?
Chuck Davis	03626203	16	\$20,000	Yes

Morrison

Name	T RDS	Acres	Est Cost	Existing Protection?
McDougall	12829232	11	\$3,500	Yes

Mower

Name	T RDS	Acres	Est Cost	Existing Protection?
Cedar River	10218222	34	\$10,000	Yes

Nicollet

Name	T RDS	Acres	Est Cost	Existing Protection?
Seven Mile Creek Dam	10927204	1	\$350,000	Yes

Otter Tail

Name	T RDS	Acres	Est Cost	Existing Protection?
Dead Lake	13540219	10	\$5,000	Yes
Dead River-Walker Lake	13440211	25	\$10,000	Yes
Elizabeth Dam	13443232	1	\$450,000	Yes
Pelican Rapids Dam	13643227	1	\$750,000	Yes

Pine

Name	T RDS	Acres	Est Cost	Existing Protection?
Barnes Springs	04118212	30	\$3,500	Yes
Big Pine	04321208	20	\$3,500	Yes
Hinckley	04121224	50	\$20,000	Yes
Willow River Dam removal	04420202	1	\$650,000	Yes

Pope

Name	T RDS	Acres	Est Cost	Existing Protection?
Glenwood Headquarters	12538202	31	\$22,000	Yes

Redwood

Name	T RDS	Acres	Est Cost	Existing Protection?
Brickyard	11334231	25	\$12,500	Yes
Riverside	11335221	104	\$14,000	Yes
Sanborn	10936227	60	\$30,200	Yes
Whispering Ridge	11436232	84	\$88,600	Yes

Renville

Name	TRDS	Acres	Est Cost	Existing Protection?
Nesburgs Landing	11233229	7	\$3,500	Yes

Rice

Name	TRDS	Acres	Est Cost	Existing Protection?
Cannon River (Dundas)	11120215	28	\$22,600	Yes
Dudley-Kelly	11021208	2	\$1,000	Yes

Scott

Name	TRDS	Acres	Est Cost	Existing Protection?
Eagle Creek	11521218	57	\$85,400	Yes

St Louis

Name	TRDS	Acres	Est Cost	Existing Protection?
Donna Lake	05412201	2	\$1,500	Yes
French River Headwaters	05213216	52	\$18,500	Yes
Island Lake (Goodland) AMA	05521220	5	\$1,500	Yes
Knife River	05312212	20	\$3,500	Yes
Lester River	05214227	5	\$3,500	Yes
Little Grand Lake	05116231	3	\$1,500	Yes
Sucker River	05312230	20	\$3,500	Yes
Tower hatchery	06116203	10	\$2,500	Yes

St. Louis

Name	TRDS	Acres	Est Cost	Existing Protection?
Miller Creek	05014218	5	\$800,000	Yes

St Louis and Lake

Name	TRDS	Acres	Est Cost	Existing Protection?
Beaver River	05609225	100	\$5,500	Yes

Todd

Name	TRDS	Acres	Est Cost	Existing Protection?
Little Swan Lake	12832203	5	\$1,500	Yes

Wabasha

Name	TRDS	Acres	Est Cost	Existing Protection?
Miller Creek	11112208	21	\$6,500	Yes
North Fork Zumbro River	10914206	9	\$750,000	Yes
Zumbro River	10914222	1	\$1,000	Yes

Waseca

Name	TRDS	Acres	Est Cost	Existing Protection?
St Olaf Lake	10522213	3	\$1,500	Yes

Winona

Name	TRDS	Acres	Est Cost	Existing Protection?
Coolridge Creek	10509203	12	\$30,000	Yes

Wright

Name	TRDS	Acres	Est Cost	Existing Protection?
Ramsey Lake	12026218	5	\$14,400	Yes
Silver Creek	12226215	4	\$4,800	Yes

Section 2 - Protect Parcel List

No parcels with an activity type protect.

Section 2a - Protect Parcel with Bldgs

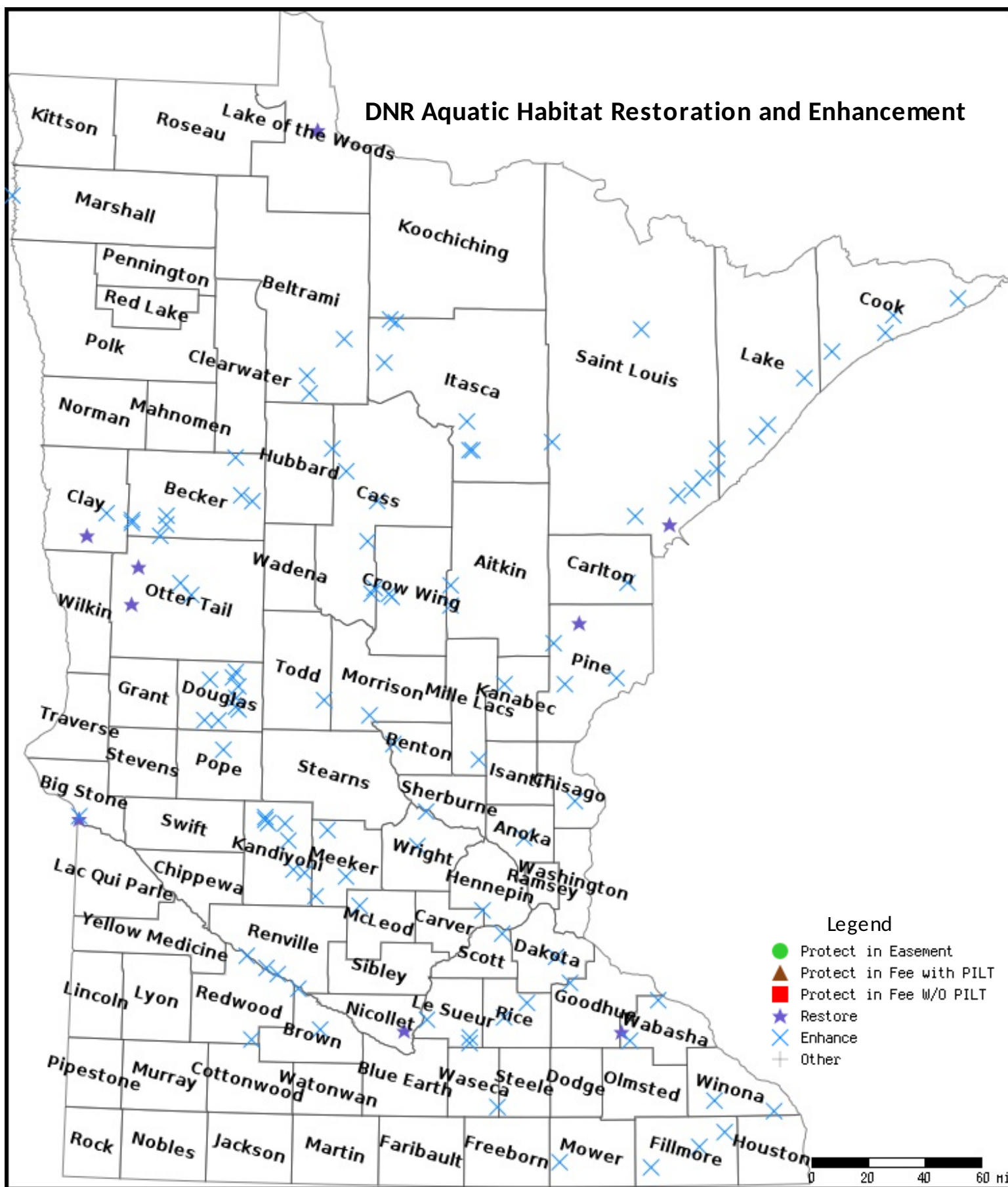
No parcels with an activity type protect and has buildings.

Section 3 - Other Parcel Activity

No parcels with an other activity type.

Parcel Map

DNR Aquatic Habitat Restoration and Enhancement



Data Generated From Parcel List

Project ID

Stream Name	Project Type	Project Type	Resource Potential	Scale of Impact	Critical Habitat	Invasive Species	Community Support/ Acceptance	Timing	Technical Feasibility	Compatibility with other initiatives	Professional Judgement	Total Score	DNR Share of Project Cost	Total Project Cost	Region Priority	Region	Current Contact and Year Submitted	Township	Range	Section
Blue Mounds Dam	Dam Removal/Channel Restoration	10	10	8	10	10	4	5	5	3	5	70	\$1,400,000	\$1,400,000		SW	Brooke Hacker, EWR (2016)	103	45	24
Wild Rice River	Channel Restoration	10	10	10	8	9	5	4	4	3	4	67	\$46,000,000	\$46,000,000	1	NW	Jamison Wendel, FAW (2015)	144	46	29, 30
Wolverton Creek (Phase II)	Channel Restoration	10	7	10	8	9	5	4	5	3	5	66	\$2,000,000	8,000,000		NW	Bruce Albright, BRRWD (2016)	137	48	8,16,22,27,34+
Stony Creek	Channel Restoration	10	10	10	8	9	5	3	4	3	3	65	\$1,944,000	\$2,160,000		NW	Bruce Albright, BRRWD (2017)	137	46	2,3,4,11,12,13
Otter Tail River	Channel Restoration	10	10	10	9	9	3	3	4	3	4	65	\$30,000,000	\$30,000,000		NW	Jamison Wendel, FAW (2014)	143	45	33, 32, 31+
South Branch Buffalo	Channel Restoration	10	10	10	8	10	4	3	4	3	2	64	\$2,520,000	\$2,800,000		NW	Bruce Albright, BRRWD (2017)	135	46	9,10,11
Shell River Culverts	Culvert Replacement	8	9	7	10	9	5	3	5	3	5	64	\$125,000	\$165,350		NW	Michael Kelly, FAW (2017)	140	37	14,15
Whisky Creek	Channel Restoration	10	8	10	8	9	5	3	4	3	3	63	\$3,500,000	\$3,900,000		NW	Bruce Albright, BRRWD (2017)	137	46	18-23
N. Fork Zumbro/Mazeppa	Channel Restoration	8	9	10	7	9	4	3	4	3	5	62	\$750,000	\$850,000		SE	Beau Kennedy, Goodhue SWCD (2017)	110	14	31
S. Trib of Whisky Creek	Channel Restoration	10	7	10	8	10	5	3	4	3	2	62	\$2,250,000	\$2,500,000		NW	Bruce Albright, BRRWD (2017)	137	46	14,15,23,24,25,36
Miller Creek	Channel Restoration	10	10	8	7	9	4	3	4	3	2	60	\$800,000	\$800,000		NE	Jeff Tillma, FAW (2015)	50	14	17
Whetstone	Channel Reconnection	10	9	7	10	9	5	2	5	3	0	60	\$2,000,000	\$6,600,559		SW	SHP and Chris Domeier (2016)	121	46	16
Bostic Creek	Channel Restoration	10	9	10	7	9	3	3	3	3	3	60	\$500,000	\$500,000		NW	Lori Clark, EWR (2017)	161	33	12
Elizabeth Dam/Pelican River	Dam Removal	8	9	8	10	10	2	4	3	3	2	59	\$451,000	\$451,000		NW	Jim Wolters, FAW (2017)	134	43	32
Pelican Rapids Dam	Modificaion	8	8	8	10	9	3	4	2	3	2	57	\$751,000	\$751,000		NW	Jim Wolters, FAW (2017)	136	43	22
Seven Mile Creek Dam	Dam Removal	10	8	7	7	10	3	3	4	3	2	57	\$350,000	\$350,000		SW	Brooke Hacker, EWR (2017)	109	27	4
Hallock Dam	Dam Modification	7	10	8	9	9	4	3	3	3	0	56	\$400,000	\$400,000		NW	Jamison Wendel, FAW (2015)	161	49	13
Lake Carlos Dam	Dam Modification	7	8	7	8	9	3	1	5	3	2	53	\$180,000	\$180,000		NW	Chris Weir-Koetter, PAT (2016)	129	37	16
Pine River/Norway Lake	Dam Modification	5	8	8	7	8	4	4	4	3	2	53	\$1,000,000	\$1,000,000		NE	Marc Bacigalupi, FAW (2012)	138	29	31
Fish Creek	Dam removal with Channel Restoration and Culvert Replacement	10	8	6	5	9	3	3	4	3	2	53	\$83,525	\$84,825			Eric Altena, FAW (2016)	127	32	29
Tischer Creek Removal	Dam Removal with Channel Restoration	10	8	8	5	7	2	1	3	2	1	47	\$1,000,000	\$1,000,000		NE	Deserae Hendrickson, FAW (2012)	50	14	2, 3
Cannon River- Malt-O-Meal Dam	Dam Modification	8	8	8	8	8	1	1	3	1	0	46	\$500,000	\$2,300,000	2	SE	Southern Region FAW and EWR (before 2010)	111	20	1
Roscoe WMA	Toe-Wood	2	2	4	7	8	3	1	3	2	0	32	\$65,000	\$65,000		SE	Jeff Weiss, FAW (2016)	109	16	33

Not requesting funding for ML2018
Awaiting Legislative decision for ML 2017

Lessard-Sams Outdoor Heritage Council

Comparison Report

Program Title: 2018 - DNR Aquatic Habitat Restoration and Enhancement

Organization: MN DNR

Manager: Brian Nerbonne

Budget

Requested Amount: \$11,838,900

Appropriated Amount: \$2,834,000

Percentage: 23.94%

Budget Item	Total Requested		Total Appropriated		Percentage of Request	
	LSOHC Request	Anticipated Leverage	Appropriated Amount	Anticipated Leverage	Percentage of Request	Percentage of Leverage
Personnel	\$1,796,000	\$0	\$906,000	\$0	50.45%	-
Contracts	\$9,121,000	\$216,000	\$1,632,200	\$0	17.89%	0.00%
Fee Acquisition w/ PILT	\$0	\$0	\$0	\$0	-	-
Fee Acquisition w/o PILT	\$0	\$0	\$0	\$0	-	-
Easement Acquisition	\$0	\$0	\$0	\$0	-	-
Easement Stewardship	\$0	\$0	\$0	\$0	-	-
Travel	\$130,000	\$0	\$20,000	\$0	15.38%	-
Professional Services	\$400,000	\$0	\$170,000	\$0	42.50%	-
Direct Support Services	\$201,900	\$0	\$90,800	\$0	44.97%	-
DNR Land Acquisition Costs	\$0	\$0	\$0	\$0	-	-
Capital Equipment	\$0	\$0	\$0	\$0	-	-
Other Equipment/Tools	\$2,000	\$0	\$0	\$0	0.00%	-
Supplies/Materials	\$188,000	\$0	\$15,000	\$0	7.98%	-
DNR IDP	\$0	\$0	\$0	\$0	-	-
Total	\$11,838,900	\$216,000	\$2,834,000	\$0	23.94%	0.00%

How will this program accommodate the reduced appropriation recommendation from the original proposed requested amount?

We have chosen to reduce the amount spent in salary through reductions in positions, years of position funding, and FTE equivalents. We will implement stream projects based on our prioritized list, completing the highest priorities with available funding. We will look at other funding options for trout stream enhancement.

Output

Table 1a. Acres by Resource Type

Type	Total Proposed	Total in AP	Percentage of Proposed
Restore	145	15	10.34%
Protect in Fee with State PILT Liability	0	0	-
Protect in Fee W/O State PILT Liability	0	0	-
Protect in Easement	0	0	-
Enhance	1,007	265	26.32%

Table 2. Total Funding by Resource Type

Type	Total Proposed	Total in AP	Percentage of Proposed
Restore	9,208,200	2,001,300	21.73%
Protect in Fee with State PILT Liability	0	0	-
Protect in Fee W/O State PILT Liability	0	0	-
Protect in Easement	0	0	-
Enhance	2,630,700	832,700	31.65%

Table 3. Acres within each Ecological Section

Type	Total Proposed	Total in AP	Percentage of Proposed
Restore	145	15	10.34%
Protect in Fee with State PILT Liability	0	0	-
Protect in Fee W/O State PILT Liability	0	0	-
Protect in Easement	0	0	-
Enhance	1,007	265	26.32%

Table 4. Total Funding within each Ecological Section

Type	Total Proposed	Total in AP	Percentage of Proposed
Restore	9,208,200	2,001,300	21.73%
Protect in Fee with State PILT Liability	0	0	-
Protect in Fee W/O State PILT Liability	0	0	-
Protect in Easement	0	0	-
Enhance	2,630,700	832,700	31.65%