

Pomme de Terre River Association

Who are we?

Founded in 1981, the Pomme de Terre River Association (PDTRA) is a watershedbased, grant-funded partnership among the 6 counties within the watershed:

- Big Stone County
- Douglas County
- Grant County
- Otter Tail County
- Stevens County
- Swift County

- Big Stone Soil & Water Conservation District
- Douglas Soil & Water Conservation District
- Grant Soil & Water Conservation District
- West Otter Tail Soil & Water Conservation District
- Stevens Soil & Water Conservation District
- Swift Soil & Water Conservation District

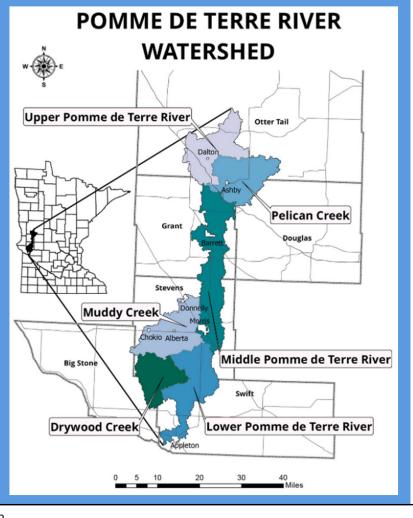
The PDTRA is governed by a Joint Powers Board (JPB) and guided by a Technical Advisory Committee (TAC).

JPB: One SWCD supervisor and one County Commissioner from each member county.

TAC: One SWCD employee and one County employee from each member county.







- 875 square miles (560,399 acres)
- 751.3 miles of river and streams
 Pomme de Terre River is 105 miles long
- 69% cropland
- 9% water
- 9 cities
- Population 15,232 (2010 census)
- Percent of watershed in each county:
 - Stevens: 39%
 - Otter Tail: 23%
 - **•** Grant: 18%
 - Swift: 13%
 - ♦ Douglas: 4%
 - Big Stone: 3%



PDTRA Past Funding & Accomplishments

- Clean Water Fund Grants
 - 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2019
- Federal 319 Grants
 - 2014, 2016, 2019
- Pre-WRAPS & WRAPS Grants
- Clean Water Partnership Grant 2013, SWAG Grants, 1W1P
- Total grant funding since 2014: \$2,810,307



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PDTRA Projects





- Aain Gardens
- Water & Sediment Control Basins
- Streambank Restorations
- Drywood Creek Dam Removal & Stream Restoration
- Wetland Restorations

- Filter Strips
- Cattle Exclusions
- And more!



Roles and Responsibilities of Involved Entities



	Adopt, implement, amend the Plan	
Joint Powers Board	Allocate funding sources	
	Approve work plans, contracts, fiscal reports, budgets, BWSR required reports, grant applications	
	Approve assessment of plan progress and measurable results	
	Establish committees	
	Provide expertise and scientific data	
Technical Advisory Committee	Develop recommendations for Plan implementation	
	Assist with work plan development and implementation	
	Identify and coordinate grant opportunities	
	Assist with assessment of plan progress and measure results	
	Provide recommendations to the PDTRA JPB 6	

Roles and Responsibilities of Involved Entities

POMME DE TERRE

Pomme de Terre River Association Staff	Prepare work plan
	Prepare fiscal reports and budgets
	Prepare reports required by grantors
	Prepare and submit grant applications
	Assess plan progress & measure results
	Provide general administrative and fiscal functions
County Boards	Approve the plan for submittal to the Board of Water & Soil Resources
County Boards	
County Boards and SWCDs	Board of Water & Soil Resources
	Board of Water & Soil Resources Adopt plan locally
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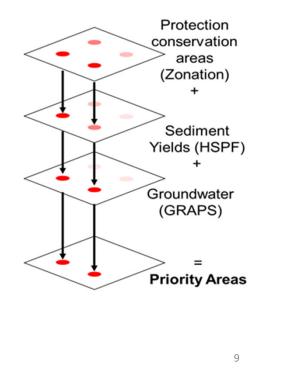
Current and Potential Partners

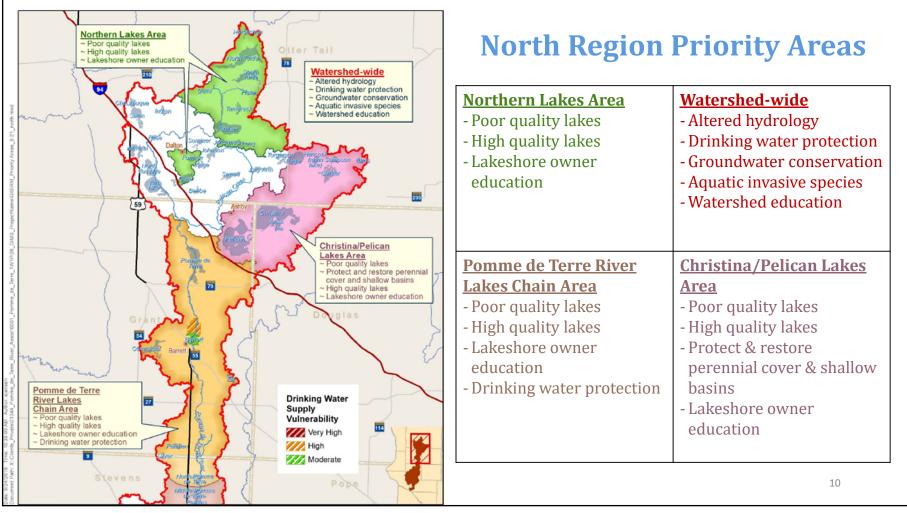
Department of Natural Resources	Local Sportsmen's Clubs
Board of Water & Soil Resources	SWCDs
Pollution Control Agency	Townships
Department of Health	Cities
Department of Agriculture	Counties
MN Pheasants Forever	Landowners
University of Minnesota	Lake Associations
NRCS	FSA

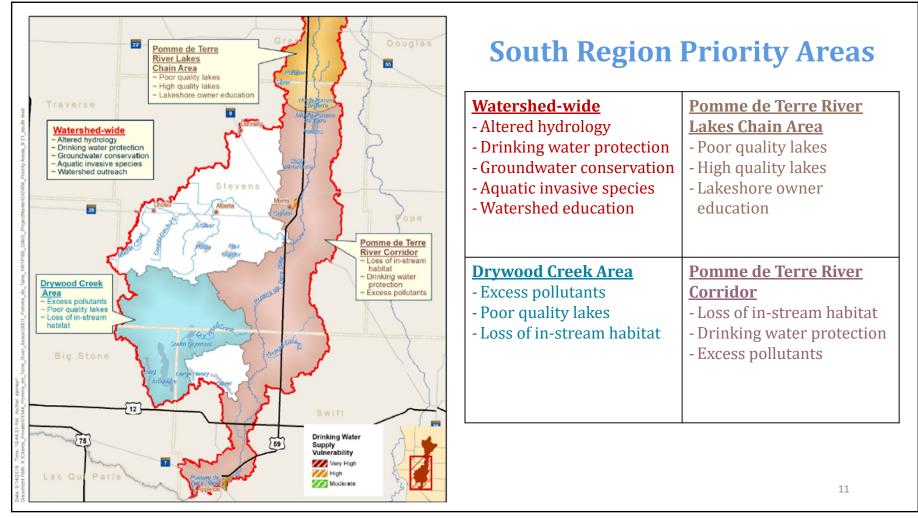


Prioritizing Areas for Implementation

- Comprehensive watershed priority model
- Combination of model outputs & zonation conservation prioritization
- Local knowledge & recent monitoring of known impairments or near impairments, drinking water sensitivity, existing BMPs & easements, high sediment or phosphorus levels
- Targeted Implementation Plan developed by Houston Engineering using PTMApp

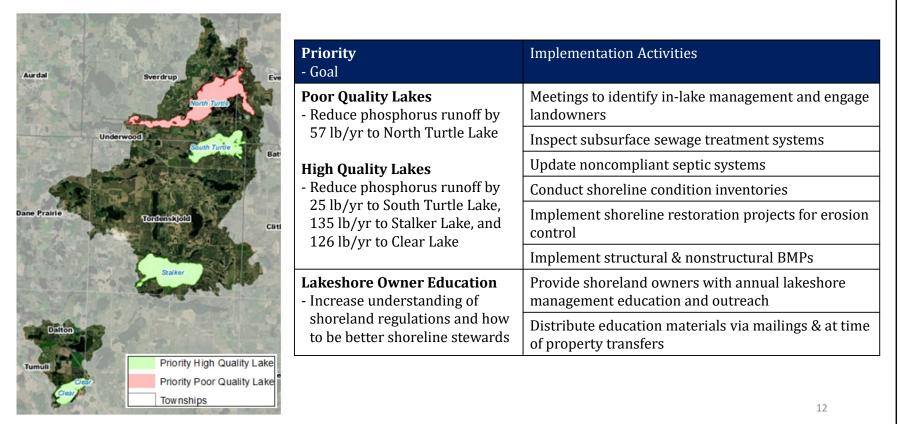






Northern Lakes Area (Otter Tail County)





Christina-Pelican Lakes Area (Otter Tail, Grant, & Douglas Counties)



Tordenskjold Clitherall Nidaros	Priority - Goal	Implementation Activities
Egio	Poor Quality Lakes - Reduce phosphorus runoff by 59	Meetings to identify lake management and engage landowners
Saint Olaf Eagle Lako Spizer	lb/yr to Christina Lake	Inspect subsurface sewage treatment systems
- Loof Mountain	High Quality Lakes	Update noncompliant septic systems
A Constant of the second	- Reduce phosphorus runoff by 14	Conduct shoreline condition inventories
Asiag	lb/yr to Eagle Lake, 95 lb/yr to Spitzer Lake, and 29 lb/yr to Pelican Lake	Implement restoration projects for erosion control
		Implement structural & nonstructural BMPs
Polican Lake Cund Millerville Millerville	Lakeshore Owner Education - Increase understanding of shoreland regulations and how to be better shoreline stewards	Provide shoreland owners with annual lakeshore management education and outreach
Priority High Quality Lake		Distribute education materials via mailings & at time of property transfers
Priority Poor Quality Lake Townships	Protect & Restore Perennial Cover and Shallow Basins	Protect water quality by maintaining wetland and grassland currently enrolled in conservation
Erdahl Evansville Brandon	 Implement perennial vegetation and protect wetlands 	programs; increase amount of perennial vegetation and wetland storage in the watershed 13

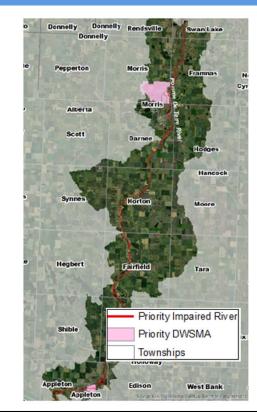
Pomme de Terre River Lakes Chain (Grant & Stevens Counties)



Ook Pomme de Terre Pelican Lake Lu	Priority - Goal	Implementation Activities
Pennie do torio	Drinking Water Protection	Convert cropland to perennial vegetation
E	- Protect public drinking water supplies with moderate and high	Review wellhead protection plans & serve on those teams
ike Erdahl Evans	vulnerability	Contact landowners about completing BMPs
Sanford	Poor Quality Lakes - Reduce phosphorus runoff by	Meetings to identify in-lake management and engage landowners
Barrett	275 lb/yr to Perkins Lake, 98 lb/yr to Barrett Lake, 142 lb/yr to Pomme de Terre Lake High Quality Lakes - Reduce phosphorus runoff by 4 lb/yr to Elk Lake	Inspect subsurface sewage treatment systems
Elk-Uake Urr		Update noncompliant septic systems
		Conduct shoreline condition inventories
Hoffman		Implement restoration projects for erosion control
Priority High Quality Lake		Implement structural & nonstructural BMPs
Priority Poor Quality Lake Townships	Lakeshore Owner Education - Increase understanding of	Provide shoreland owners with annual lakeshore management education and outreach
y Rendsville Swan Lake Nor- omelly	shoreland regulations and how to be better shoreline stewards	Distribute education materials via mailings & at time of property transfers

Pomme de Terre River Corridor (Stevens & Swift Counties)





Priority - Goal	Implementation Activities
Drinking Water Protection	Convert cropland to perennial vegetation
 Protect public drinking water supplies with moderate and high 	Review wellhead protection plans, serve on those teams
vulnerability	Contact landowners about completing BMPs
Excess Pollutants	Implement structural and nonstructural BMPs
 Reduce phosphorus runoff by 382 lb/yr, reduce sediment by 2501 	Restore drained shallow basins
tons/yr	Implement nutrient management plans
- Reduce stormwater runoff impacts	Work with cities to develop stormwater management plans in urban areas
Loss of In-Stream Habitat	Implement BMPs to reduce erosion due to livestock
- Improve habitat by reducing sedimentation due to bank erosion	Implement pasture management & grazing plans
	Complete streambank stabilization projects
- Improve habitat by establishing	Implement side water inlets where appropriate
and maintaining perennial buffers and floodplain connections	Implement buffers on "other waters" coming into the main stem of the Pomme de Terre River 15

Drywood Creek Area (Stevens, Swift, & Big Stone Counties)



	Priority - Goal	Implementation Activities
onshine Baker Scott Darnen	Poor Quality Lakes	Identify lake management & engage landowners
A A A	 Reduce phosphorus in direct drainage runoff by 99 lb/yr to Artichoke Lake 	Inspect subsurface sewage treatment systems; update noncompliant systems
Steven) Sympos Horton	ID/ yi to AI ticlioke Lake	Conduct shoreline condition inventories & restorations
		Implement structural & nonstructural BMPs
	Excess Pollutants	Restore drained shallow basins
a manager	- Reduce direct runoff of phosphorus by 209 lb/yr	Implement nutrient management plans
	and reduce sediment by 1029 tons/yr Loss of In-Stream Habitat - Reduce sedimentation due to bank erosion	Work with cities to develop stormwater management plans
Hegbert Fairfield		Implement BMPs to reduce erosion caused by livestock
		Implement pasture management & rotational grazing plans
Priority Impaired Stream Priority Poor Quality Lake		Complete streambank stabilization projects
Akron Shible Mover		Implement side water inlets and buffers where appropriate

Watershed Wide Priorities

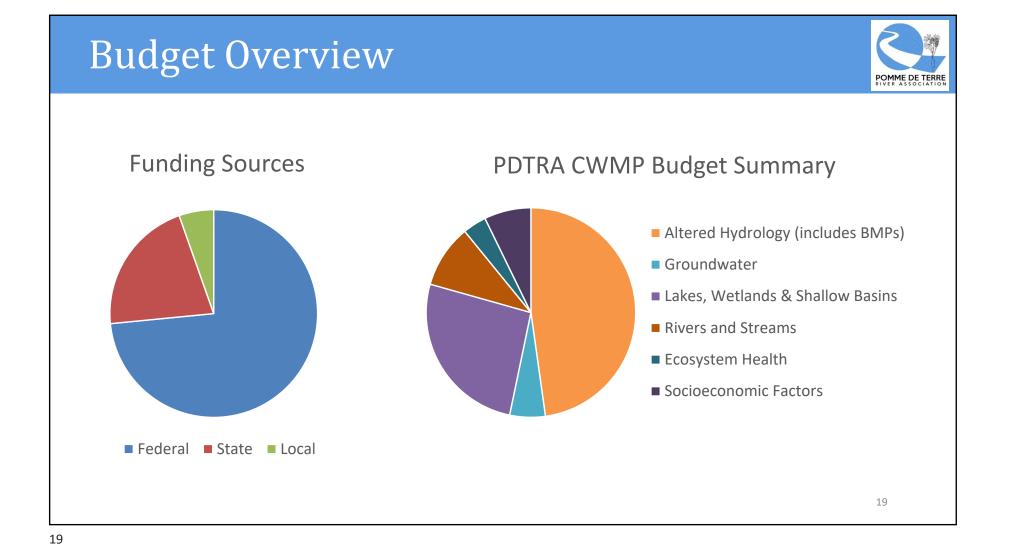


Priority - Goal	Implementation Activities
Drinking Water Protection - Provide resources to well owners about	Host annual well water nitrate/arsenic testing clinics and make testing kits available to the public
water testing options for nitrate & arsenic - Reduce conduits to groundwater system & protect groundwater quality by sealing abandoned wells	Provide cost-share assistance to well owners for sealing abandoned & unused wells
Groundwater Conservation - Promote water conservation measures that improve water use efficiencies	Promote adoption of irrigation BMPs
	Request County Geologic Atlas
	Identify recharge areas from Atlas
	Continue observation well monitoring
Altered Hydrology	Increase perennial vegetation & restore wetlands
- Reduce annual runoff by 0.08 inch (or 3,527 acre-feet) at the outlet of the river	Implement structural & nonstructural BMPs
acte-reet) at the outlet of the river	Identify non-contributing areas
 No increase in runoff from public water basins during peak runoff periods 	Pursue management plans for existing and future controlled outlets on public water basins

Watershed Wide Priorities



Priority - Goal	Implementation Activities
Aquatic Invasive Species	Annual workshops to coordinate County AIS plans and implementation
 Work towards preventing spread of AIS by improving coordination of county programs 	Attend DNR district-led meetings
across the planning area	Continue implementing education programs
	Work with local law enforcement agencies on inspections
Watershed Outreach	Establish and facilitate advisory groups and soil health teams
 Facilitate networking and participation of targeted groups to assess, build, and leverage community capacity 	Conduct regional tours of priority areas in watershed to promote partnerships & discussion
community cupacity	Host and facilitate BMP-focused demonstrations and soil health field days
- Increase adoption of BMPs via communication with landowners & producers	Identify target audience for BMP adoption
-	Create and host consistent orientation to newly elected local officials
- Provide information about how land-use decisions impact the watershed and resources	Coordinate with UMN Extension to host Aqua Chautauqua in watershed
to locally elected decision-makers	Conduct annual kayak tour on Pomme de Terre River and educate about stream ecology
- Encourage soil and water stewardship and awareness across all generations	Continue K-12 curriculum about watershed management
משמו כווכזה מכו שהה מון צרווכו מנוטוה	Create a list serve to regularly share information about the watershed ¹⁸



Public Hearings

South Region Hearing

March 4, 2020, 5:00 pm at Old No. 1, Morris MN

- 8 public attendees + PDTRA members
- Few questions, minor discussion, no written comments submitted

North Region Hearing

March 10, 2020, 5:00 pm at Dalton Community Center, Dalton MN

- 14 public attendees + PDTRA members
- Many questions, substantial discussion, no written comments submitted



Implementation Structure

This plan will be implemented by the 12 entities within the Pomme de Terre River Association:

- Big Stone County
- Douglas County
- Grant County
- Otter Tail County
- Stevens County
- Swift County

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- Stevens Soil & Water Conservation District
- Swift Soil & Water Conservation District

The PDTRA will cooperate the same way it has for many years.

To implement this plan, our focus will be on projects and landowners within the plan's priority areas.



Questions?

For more information:

Pomme de Terre River Association	320-589-4886 x 109	
Big Stone SWCD	320-839-6149	
Douglas SWCD	320-763-5395	
Grant SWCD	218-685-5395	
Stevens SWCD	320-589-4886	
Swift SWCD	320-842-7201 x 3	
West Otter Tail SWCD	218-998-5300	
pdtriver.org/projects/one-watershed-one-plan		
bwsr.state.mn.us/one-watershed-one-plan		



