

Lutsen Highlands

Conservation Challenges:

- * Conversion to timber and mining uses
- * Changes in timber practices
- * Increased daintiling makes stream flow more flashy, reduces groundwater
- * Fluctuating/declining groundwater levels
- * Invasive spp.: Buckthorns, Eurasian honeysuckle, garlic mustard, leafy spurge, EAB
- * Habitat fragmentation
- * Agricultural water pollutants/sedimentation

Conservation Opportunities:

- * Watershed is engaged in natural resource management planning
- * Large amount of public land

Existing Conservation Network:

State Parks: Cascade River
George Crosby Manitou
Temperance River

State Forests:

SNAs: Butterwort Cliffs
Lutsen
Sugarloaf Point

Aquatic Management Areas:

Baptism River
Dyer's Lake
Manitou River

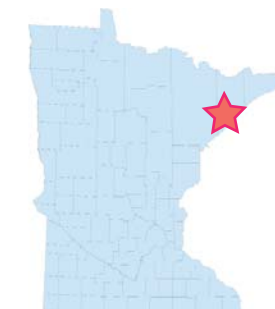
Rare Features:

- | | |
|--|-----------------------------|
| A Species of Sedge | Moschatel |
| Alpine Woodsia | Neat Spike-rush |
| Appalachian Fir-clubmoss | Necklace Spike Sedge |
| Bald Eagle | New England Sedge |
| Bitter Fleabane | Northern Comandra |
| Black-throated Blue Warbler | Northern Goshawk |
| Black Hawthorn | Northern Myotis |
| Bog Rush | Oakes' Pondweed |
| Butterwort | Oregon Woodsia |
| Carolina Spring-beauty | Pale Moonwort |
| Club-spur Orchid | Peregrine Falcon |
| Colonial Waterbird Nesting Site | Port-hole Lichen |
| Creek Heelsplitter | Rock Vole |
| Encrusted Saxifrage | Rough Bentgrass |
| Fan lichen | Satiny Willow |
| Few-flowered Spike-rush | Selwyn's Ear-leaf Liverwort |
| Hanging fringe lichen | Shortjaw Cisco |
| Hoary Draba | Small-flowered Woodrush |
| Hudson Bay Eyebright | Small False Asphodel |
| Humped Bladderwort | Small Shinleaf |
| Igneous Composition (Middle Proterozoic) | Small White Water-lily |
| Intermediate Sedge | Smoky Shrew |
| Kiyi | Smooth lungwort |
| Lake Sturgeon | Smooth Woodsia |
| Lanceleaf Grape fern | Sooty-colored Beak-rush |
| Lapland Buttercup | Triangle Moonwort |
| Laurentian Bladder Fern | Twin Bentgrass |
| Least Moonwort | White Baneberry |
| Long-leaved Arnica | Wood's Sedge |
| Maidenhair Spleenwort | Yellow ribbon lichen |
| Marsh Reedgrass | Yellow Sedge |
| Matricary Grape fern | Yellow specklebelly lichen |
| Michaux's Sedge | |
| Mingan Moonwort | |
| Montane Yellow-eyed Grass | |

Lutsen Highlands Opportunity Area

Ecological Significance:

The Southern North Shore is one of the most important recreational landscapes in Minnesota. This Opportunity Area contains large recreational areas, and also contains a variety of habitats that are endemic to the North Shore in Minnesota. This landscape is partially sustained by the cooler microclimate provided by Lake Superior, and will be vulnerable to a warming climate. In addition, heavy development pressure will occur due to the scenic and recreational value that the area provides for the Upper Midwest, particularly as population growth, economic development and warmer summers place greater demands on this landscape. Natural areas will have a need for greater protection as pressures for increased development occur from expanding tourism. Increased use will also provide greater exposure to invasive species. Assembling large open spaces will provide some resilience for existing natural communities.



Counties:

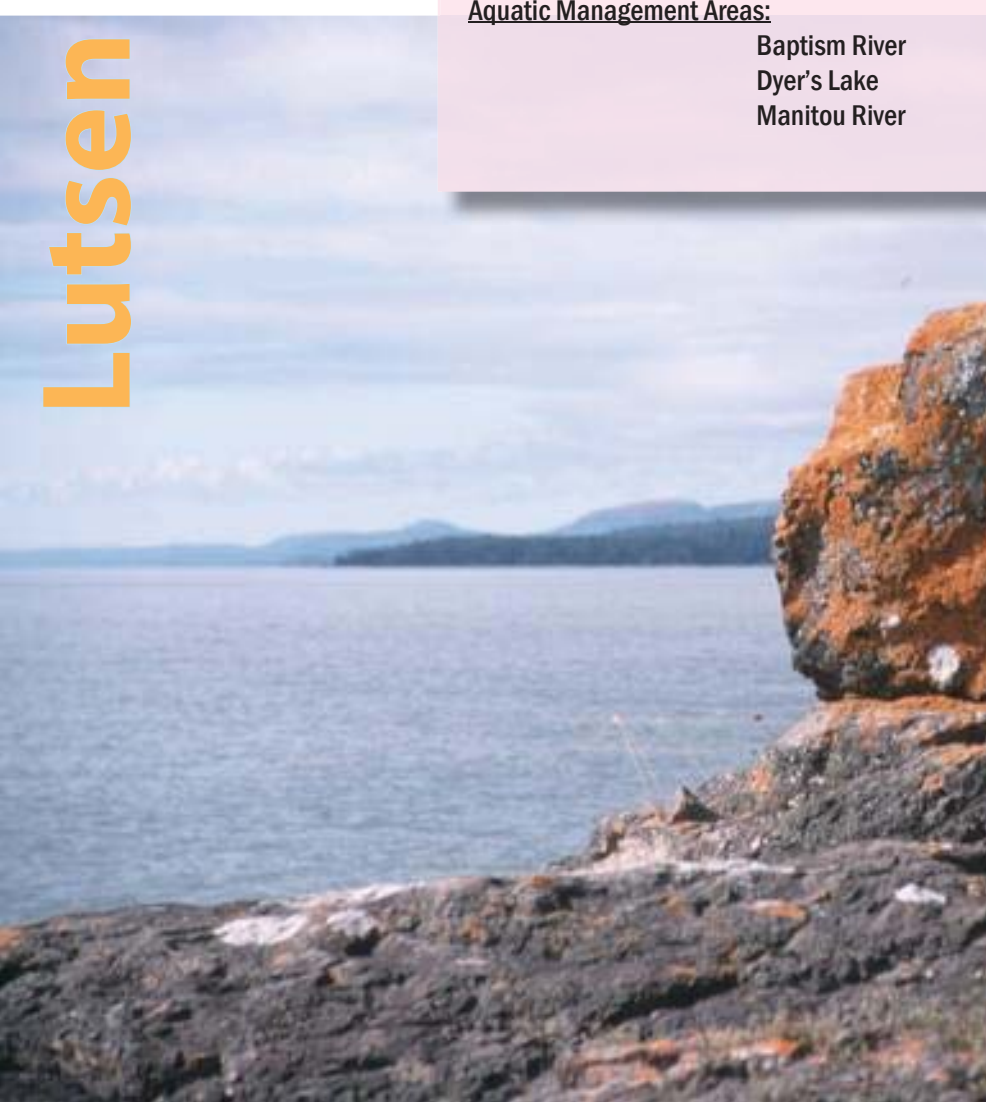
Cook
Lake

Rare Native Plant Communities:

- Aspen - Birch Forest, Hardwood Subtype
- Aspen - Birch Forest; Balsam Fir subtype
- Lake Superior Rocky Shore
- Lowland White Cedar Forest (North Shore)
- Paper Birch - Sugar Maple Forest (North Shore)
- Sugar Maple Forest (North Shore)
- Upland White Cedar Forest
- White Cedar - Yellow Birch Forest

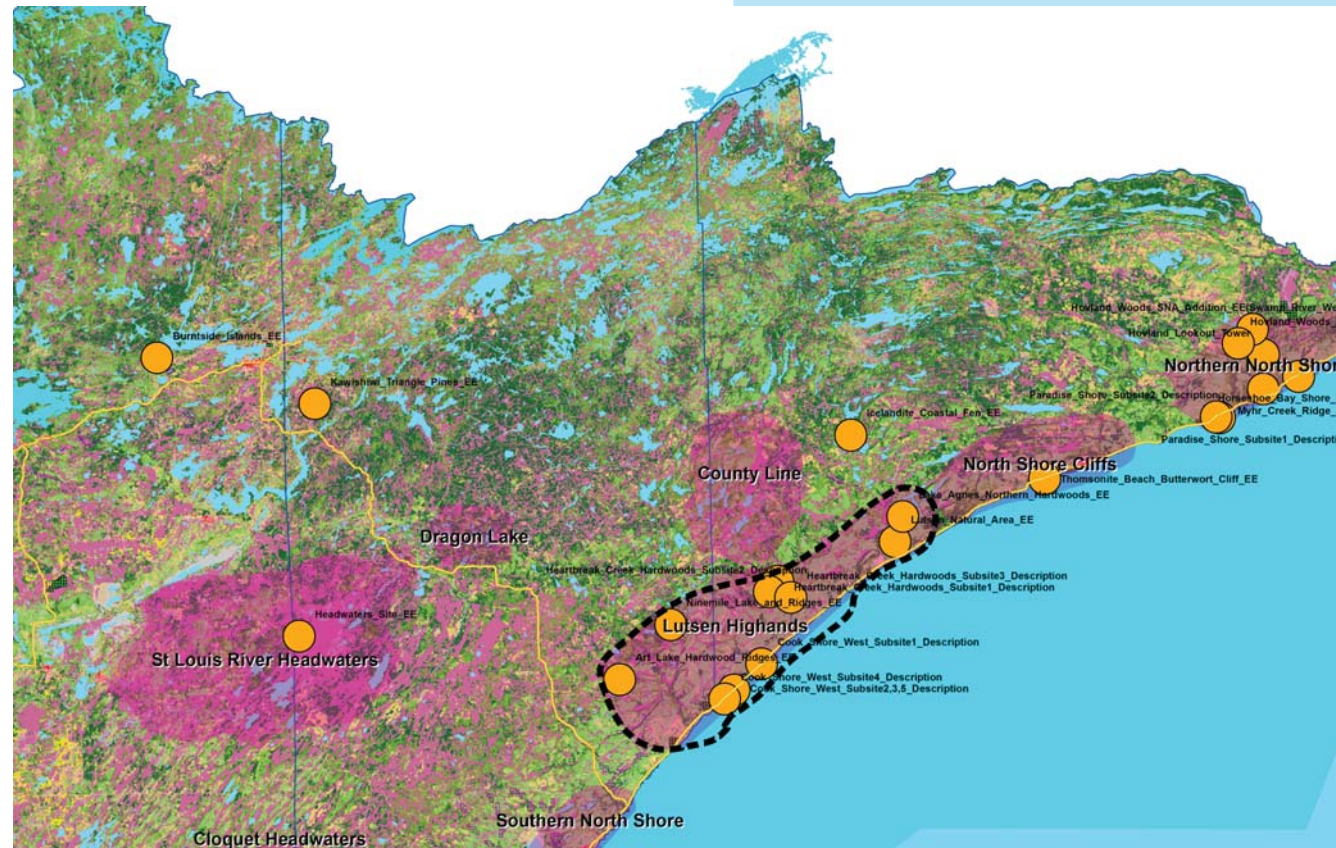
Ecological Evaluations:

- Art Lake Hardwood Ridges
- Cook Shore West Subsites: 1, 2, 3, 4, 5
- Heartbreak Creek Hardwoods Subsites 1, 2, 3
- Lutsen Natural Area
- Lake Agnes Northern Hardwoods
- Ninemile Lake and Ridges



Lutsen Highlands

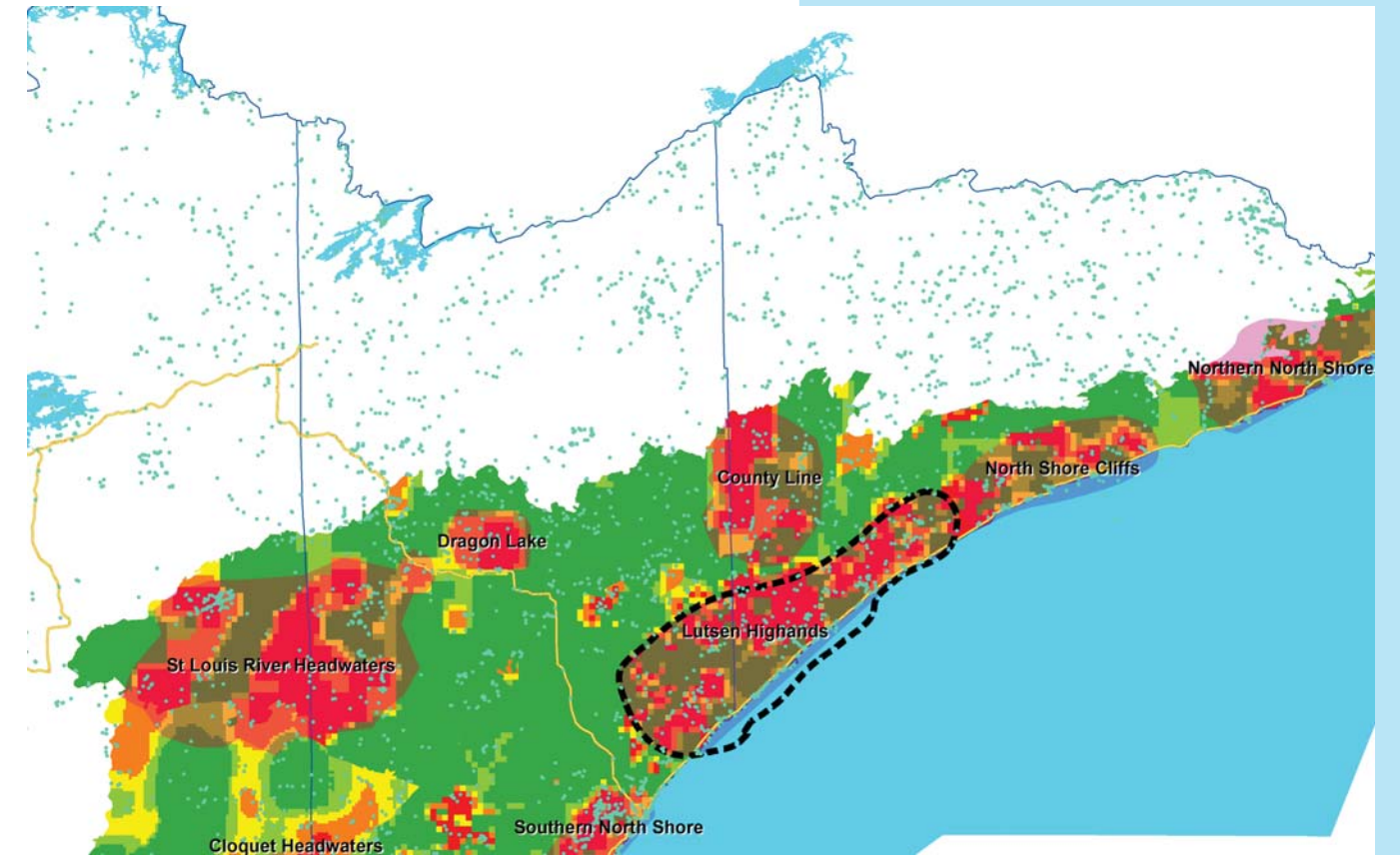
Ecological Evaluations, Land Cover, Public Ownership
















Please see Legend at the front of the Opportunity Area Descriptions for a key to this map

Lutsen Highlands

Marxan Prioritization, Element Occurrences



Legend

-  Profiled COA
 -  Conservation Opportunity Area
 -  Rare Feature
 -  County Boundary
 -  Large Lake
- Marxan Conservation Prioritization**
-  Lowest Priority
 -  Low Priority
 -  Medium Priority
 -  High Priority
 -  Highest Priority
 -  Interstate Highway
 -  U.S. Trunk Highway
 -  MN Trunk Highway