AITKIN COUNTY COMPREHENSIVE RECREATION PLAN

2nd Generation

May 2021



CERTIFIED COPY OF RESOLUTION OF COUNTY BOARD OF AITKIN COUNTY, MINNESOTA

ADOPTED June 8, 2021

By Commissioner: Marcotte

20210608-073

Second Generation Recreation Plan

WHEREAS; the First Generation Recreation Plan was adopted in 2010 and scheduled to be updated every ten years, and

WHEREAS; recreation and tourism are important to the economy and quality of life in Aitkin County, and

WHEREAS; proper planning for development and management of recreation resources is integral to the success of a recreation program, and

WHEREAS; public input was sought and incorporated into the plan, and

WHEREAS; the Aitkin County Natural Resources Advisory Committee recommends adoption of the plan.

THEREFORE, be it resolved that the Aitkin County Board of Commissioners hereby adopt the Aitkin County Second Generation Recreation Plan.

Commissioner Westerlund moved for adoption of the resolution and it was declared adopted upon the following vote

FOUR MEMBERS PRESENT (Niemi absent)

All Members Voting YES

STATE OF MINNESOTA) **COUNTY OF AITKIN**

I, Jessica Seibert, County Administrator, Aitkin County, Minnesota do hereby certify that I have compared the foregoing with the original resolution filed in the Administration Office of Aitkin County in Aitkin, Minnesota as stated in the minutes of the proceedings of said Board on the 8th day of June, 2021 and that the same is a true and correct copy of the whole thereof.

Witness my hand and seal this 8th day of June, 2021

County Administrator

AITKIN COUNTY COMPREHENSIVE RECREATION PLAN

Aitkin County Land Department

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Natural Resources Advisory Committee

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Approved by the Aitkin County Board of Commissioners
Chair J. Mark Wedel
Vice Chair Anne Marcotte
Brian Napstad
Laurie Westerlund
Don Niemi

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Acronyms

- ACLD Aitkin County Land Department
- ATV All-Terrain Vehicle
- DNR Department of Natural Resources
- OHV Off-Highway Vehicle
- OHM Off-Highway Motorcycle
- ORV Off-Road Vehicle

EXECUTIVE SUMMARY

Introduction

The first generation of the Aitkin County Land Department's (ACLD) comprehensive Recreation Plan provided the framework that guided recreation management on county-managed lands in Aitkin County for the last ten years. The development process of that plan included an evaluation of current recreation demands and the identification of opportunities to enhance recreation opportunities while balancing natural resource protections and other competing land uses. The planning process included gathering public input to help inform the management of recreation in Aitkin County. The plan ensures that abundant recreation opportunities can continue to be offered in Aitkin County while addressing increasing demands, responding to emerging trail-based recreation interests and while protecting natural resources, wildlife, forests, and soils.

Aitkin County includes a number of local recreation clubs and sportsmen's groups that are important partners in managing recreational trails. Various snowmobile clubs and ATV clubs assist with maintaining grant-in-aid trail routes. Members of these clubs also serve as park and Trail Ambassadors to support monitoring efforts as well as participating in youth safety and training events.

The Minnesota Department of Natural Resources Volunteer Trail Ambassador Program was established by the DNR Division of Enforcement, Parks and Trails, and Forestry. The program exists to promote safe, environmentally responsible operation of OHVs through informational, educational contacts and monitoring efforts.

The accomplishments over the last ten years are numerous and something the ACLD is very proud of. This second generation comprehensive Recreation Plan will build on those accomplishments and the infrastructure already in place to continue leading a proactive approach that supports recreation trails that are environmentally sensitive, economically beneficial and community supported. Here is a look at the next ten years...

Background

Aitkin County is in the lakes and forest region of North Central Minnesota. The county's population according to the last census figures (2019) is 15,886. The City of Aitkin, with a population of 1,993 is the county seat. Aitkin County encompasses a total of 1.2 million acres, which includes 365 lakes and over 600,000 acres of public land. Aitkin County is located in the center of the State of Minnesota, containing 100 of the first 300 miles of the Mississippi River and the northern shores of Mille Lacs Lake. The county is located two hours north of the Twin Cities and 90 minutes west of Duluth. The lakes and forests of the County draw many people to the area for recreational purposes. Major highways in the county include US 169, and MN 210 and 65. The county has 1,647 miles of road.

Over half of the land base in Aitkin County is in public ownership, including state lands such as Savanna Portage State Park and federal lands such as Rice Lake National Wildlife Refuge. The Aitkin County Land Department is responsible for managing 222,000 acres of forestland. Aitkin County is rightfully proud of its vast expanses of forests and plentiful natural resources, and the county's commitment to the sustainable use of natural resources is exemplified in several ways. The forestland

managed by the Aitkin County Land Department (ACLD) was among the first public lands in the U.S. to be certified as "well-managed" based on the international standards of the Forest Stewardship Council (FSC). The 394,000 acres of state-managed forests in the county are also certified. Long Lake Conservation Center (LLCC) located in Aitkin County is Minnesota's oldest environmental and conservation learning center serving thousands of school age and adult students annually.

ACLD Staff

The successful development and management of recreation in Aitkin County relies upon many resources, the most important of which is human capital and the people and organizations that make quality recreation opportunities possible. The county Land Department includes a staff of highly skilled individuals with responsibilities for planning, managing, and monitoring the county lands and their diverse resources and public benefits. The Department is comprised of the Land Commissioner, Assistant Land Commissioner, Senior Forester, 3 Foresters, Forestry Technician, Recreation Forester, Recreation Technician, County Surveyor, Survey Technician, Assistant Survey Technician, GIS Coordinator, Land Survey and Mapping Technician, and Lands Clerk. Park Ambassadors, peace officers and designated County employees may, in connection with their duties imposed by law, diligently enforce the provisions of the County Parks and Recreation Ordinance and eject from parks, persons acting in violation of the ordinance.

History of Recreation Planning and Management

One of the first efforts in land use planning in Aitkin County was a study released in June 1941 to report on county land uses. The report noted the fact that in the region of Aitkin County there are "thousands of lakes and many beautiful streams which make certain areas a paradise for vacationists, hunters and fishermen." The report further detailed, "past experience has shown that thousands of people from other parts of this state and other states like to come here for vacations and sports...indicat[ing] that instead of one major industry, N.E. Minnesota has three, namely: farming, timber, and recreation – all are worth promoting."

Aitkin County was one of the first forested counties in Northern Minnesota to establish a countywide park system. Backed by the Board of Commissioners, a County Land Department and a six-member Park Commission were established in 1961 to administer the county's park development program. The county was an early leader in developing snowmobile trails and was the first and only county to apply for federal funds in 1970 to develop 87 miles of trails.

After receiving financial support from a tax levy in 1963, the Park Commission set out to prepare a Comprehensive Outdoor Recreation Plan for the county in 1966. The Plan was the first attempt to inventory all of the recreational resources in the county. The county enacted a five-year action program, based on an Economic Development Plan and a Resource Development Plan. In 1970, an updated and more detailed version of the land development plan and recreational facilities survey replaced the 1966 original. The recreation management plan had not been revised since that time, until work on a new plan began in 2008.

In recent years, the ACLD has renewed efforts to plan and manage diverse trail-based recreation opportunities. In 2003, legislation passed that required the Minnesota Department of Natural Resources (DNR) to establish at least 70 miles of new ATV/OHM trail. Aitkin and Itasca Counties applied for the

grant and submitted a joint proposal for a 70-Mile Trail Project. The proposal was selected as the best fit for the trail development project based upon the counties having demonstrated land availability, a high level of readiness and effective strategies for public involvement. The development of the 70-Mile Trail Project (now named the Northwoods Regional ATV Trail System) began in 2007 and has created opportunities to review the county's recreation trail resources and management plan. This review led to a desire by the County Board to develop a Comprehensive Recreation Plan to reflect changes in recreation interests and resources and to be prepared for managing recreation opportunities into the future. In 2008, the decision was made to complete an update of the county's recreation plan.

Aitkin County now offers over 220 miles of designated ATV trails for residents and summer visitors. The trails of Aitkin County are interconnected by the North and South Soo Line Trails, which allows users to access all of the trails mentioned: Lawler Loops, Axtell Technical Riding Area, Rabey Line, Blind Lake Trails, Hill City Trail, Solana ATV Trail, and Redtop Trail. In addition, there are over 600 miles of groomed snowmobile trails and 17 miles of groomed cross-country ski trails that traverse scenic forest and lake areas. Trails are also available for horse riding, hunting, and hiking. The county offers campgrounds, trailer and carry-in water accesses, fishing piers, trail shelters, and swimming beaches.

The Land Department has 983.8 acres of developed County parks. Long Lake Conservation Center is the largest with 760 acres. Vispo is the second largest with 141 acres. Jacobson Campground encompasses 47 acres. Snake River Campground is 25 acres in size. Aitkin Campground and Berglund Park are the smallest totaling 5.6 acres and 5.2 acres respectively.

Land Use, Climate, Geology, Soils and Watershed

Aitkin County is characterized by a forested landscape, intermixed with wetland and lowland habitats as well as agricultural and developed land use. Forestry and forest related industries, agriculture and tourism are the primary contributors to the county's economy.

The climate of Minnesota and Aitkin County helps support diversified recreation opportunities, including winter recreation as well as summertime activities. The temperatures in the state range from minus 60°F to 114°F. The total annual precipitation in Aitkin County is 24-30 inches, including a mix of rain and snowfall.

The soils of Aitkin County are influenced by glacial drifts and include a mixture of clay, silt, and sand. The county has areas of dense glacial till, boulders, and gravel deposits. There are also organic soils in lowland and peatland areas. The highest point in Aitkin County is Quadna Mountain, which is 1,589 feet above sea level.

Aitkin County is within the Upper Mississippi River Watershed and the county includes more than a dozen rivers and streams. The major navigable rivers that can be used for recreation are the Snake, Mississippi, Willow and Ripple.

Invasive Species

Invasive species are species that are not native to Minnesota and cause economic or environmental harm or harm to human health. There are a variety of regulations related to invasive species at the federal, state, and local levels and these are administered by many agencies.

Once established, invasive species out-compete native vegetation and can be difficult to eradicate. Whatever the recreation activity is, it is important to understand that most invasive species are spread by human activity including ATVing. When invasive species are found on recreation trails or in County parks, ACLD's Integrated Pest Management System is utilized to determine the appropriate management. The Minnesota Department of Natural Resource has a wealth of information on invasive species including identification guides designed specifically for Trail Ambassadors. That guide can be found at: https://files.dnr.state.mn.us/education_safety/safety/ambassador/ta_invasives_broch.pdf

Currently, the ACLD actively monitors and treats infestations of garlic mustard, buckthorn, spotted knapweed, and tansy in or near recreational infrastructure throughout the county.

SECTION ONE - FIRST GENERATION PLAN SUMMARY

Trail-Based Recreation in Aitkin County

The outcomes of the plan development process of 2010 included identifying opportunities and action steps to enhance trail-based recreation on county managed lands in Aitkin County. Below are the accomplishments and progress made for each action step.

Public Feedback Mechanisms

Action Step: Develop a survey tool and other public input and feedback mechanisms.

In 2010, there was a great need to understand the recreation user's interests. The recreation pulse of Aitkin County was unknown, and the development of surveying tools was an essential piece of information that was lacking. Throughout the past 10 years, the development of multiple surveying tools has been implemented to track the user bases found throughout Aitkin Counties' recreation resources. The most prominent surveying tools utilized to date are:

- Dovetail-Northwoods Regional ATV Trail Economic Impact Survey
- Traf-X Seismic Traffic Counters Study
- Campground Revenue Study

Monitoring and Enforcement Planning and Collaboration

Action Step: Implementation of written monitoring and enforcement plans.

Monitoring and enforcement are key strategies for reducing and managing the risk of environmental and social conflicts associated with recreation trails. In conjunction with the Northwoods Regional ATV Trail System, the Aitkin County Land Department has developed a collaborative approach to monitoring and enforcement of motorized recreation trails and regulations. This approach provides a model for effectively managing recreation conflicts. Trail uses are likely to change over time and monitoring can assist in identifying these changes. The approach used on the trail systems of Aitkin County in the past decade are:

- Local Civil Law Enforcement Local law enforcement such as Minnesota Department of Natural Resources Conservation Officers and the Aitkin County Sheriff's Department, are able to effectively manage conflicts throughout the trail systems of Aitkin County.
- Aitkin County Land Department Staff Foresters are utilized to educate users and carry out monitoring of trails to ensure proper infrastructure is upheld.
- Volunteer Trail Ambassadors This is a program that promotes safety on the trail system through volunteers. The Minnesota Trail Ambassador Program is tailored to ATV based trail work.

Public Education and Promotion of Trails

Action Step: Develop trail system identities via maps, signs, logos, websites, etc.

Given the existing and potential recreation trail opportunities offered in Aitkin County, there is a constant development of trail system identities for aiding in the communication of areas with amenities to users. The Northwoods Regional ATV Trail System aided in the start of this process and further development of trail maps, signage, logos, websites and other communications tools are utilized to enhance public awareness of the recreation trails as well as the supporting services and amenities in Aitkin County. Further work to the trail system's identities in the future include updating mapping to further show ongoing connection of trails into and out of the county in correspondence with adjoining counties along with updates to websites and signage.

Tourism and Economic Development

Action Step: Explore opportunities for enhanced tourism and economic benefits of recreation.

In the past ten years, Aitkin County has explored options to diversify tourism to aid in the economic revenue that could be brought into the local area. In 2010, tourism was identified as an economic driver for Aitkin County where the delivery of recreation resources could compete for economic capital flowing into the county. With the identification of tourism as an economic driver for Aitkin County, the development of off-highway trails for a recreation tourism base was identified as a source of economic benefit to the local economy. Aitkin County also identified the need to increase non-motorized recreation resources. One non-motorized resource that was identified and developed was the Mississippi River Trail: day trip trail sections. Marketing through web presences (internet) and social marketing (social media resources i.e. Facebook, Twitter, and other areas) is an ever-growing need. Other marketing strategies include use of local Chamber of Commerce, newspaper flyers, and local ATV clubs. Tourism development of 2010-2020:

- For motorized trails, the Northwoods ATV Trail System has an average of 30,000 ATV riders per season.
- Non-motorized recreation users saw the development of more campsites and the Mississippi River Trail Day Use Trail sections.
- Web/marketing strategies included on-line camping reservations, new mapping, and flyers/advertising in major newspaper outlets.

Trail Signs and Maps

Action Step: Update and enhance trail maps and online recreation information.

With the development of a trails and recreation resource, the presence of quality, professional mapping and information is vital for overall effectiveness of the recreation use. The use of high quality and readily accessible information via mapping, site location history, or prevalent information is of a high value to the core of Aitkin County's recreation-based resources. The use of web or digital vectored maps were sought after to ensure recreation users' needs for location information was readily available when needed. Tools that were used from 2010 to 2020 were the use of intergovernmental Global Informational System mapping (GIS mapping), collaborations with local DNR parks and trails resources, local clubs for map distribution, and local vendors. Trail sign and mapping developments:

- Aitkin County Land Department website ATV maps.
- Northwoods ATV Trail website.

- Universal informational kiosks throughout trail systems.
- Local club distribution of maps and information.
- Local vender distribution of maps and information.

Birding, Geocaching and Water Trails

Action Step: Explore emerging recreation trail possibilities.

Local input is sought at NRAC meetings where members embody all aspects of the natural resources and recreation focus points of Aitkin County. Exploration was done into local grants versus non-profit, county, state, and federal grant applications for trail establishment.

Co-Existing Recreation

Action Step: Integrate trail systems to offer maximized opportunities with minimized conflicts.

Aitkin County's existing trail systems vary greatly in their creation. The use of strategizing similar interest groups (i.e. motorized trail clubs or users vs. non-motorized user groups) to finding common ground and agreements for use if co-existing recreation does take place. To support the efficient use of the opportunities that are available and to reduce the opportunity for trail user conflict, it is important for the county to clearly identify which uses are allowed on each trail and determine which recreation uses can co-exist on certain trails. Given the seasonality of recreation trail use (e.g., hiking in the summer and cross-country skiing in the winter), it is possible that at least some trails can continue to support multiple recreation types.

Action Steps for Specific Recreation Trail Types

The plan development and public input process helped to identify several action steps for specific recreation types in the county. The use of specific "Action Steps" for individual recreation entities helped to ensure effective and efficient methods of maintaining working relationships and upkeep of recreation infrastructure.

Snowmobile Trails

- Maintain existing trails with local clubs.
- Collaborate with clubs and partners to ensure maps are printed accurately.
- Continue to monitor and enforce ATV/OHV riding to comply with ordinance.
- Review trail signs and work with clubs and partners to improve consistency.
- Plan an annual (or as needed) meeting (or other form of communication) between the county, contracted loggers and snowmobile clubs to share information about planned forest management activities and to reach agreement on how to address trail use in the area during the activity.
- Provide information about trail conditions at the County website and maintain electronic communications with the clubs.
- Foresters to work with the Recreation Forester to contact snowmobile clubs when timber sales could affect snowmobile trails and should attempt to contact clubs before any logging starts.

Outcome of Action Steps: Aitkin County is home to over 640 miles of existing trails with local clubs throughout the county. Collaborating with the clubs to ensure maps are printed accurately, enforcing of

OHV riding ordinances, and reviewing trail infrastructure for signage and mapping updates continues. With the partnerships and collaboration with local snowmobile clubs, annual meetings are to be conducted to share information about planned forest management activities and to reach agreement on how to address trail use in the area during the activity. With information that is accumulated from local clubs to Aitkin County, this is to provide information about trail conditions at the County website and maintain electronic communications with the clubs. Aitkin County has continued to uphold a highly cohesive working relationship with local Snowmobile Clubs of Aitkin County. Enhanced Trail infrastructure in the past decade has taken place in the form of bridge replacements, trail re-routes, and shelter improvements throughout.

ATV/OHM Trails

- Complete the Northwoods Regional ATV Trail System in a manner that is environmentally sensitive, economically beneficial and community supported
- Develop trail maps and signs in conjunction with the completion of the Northwoods Regional ATV Trail System
- Continue to implement the monitoring and enforcement plan developed for motorized recreation trails to ensure compliance with the ordinance and all other rules and regulations and to reduce conflicts with property owners.
- Develop interpretive signage along the Soo Line trails.
- Support youth safety training.
- Establish grant-in-aid recognition for ATV routes.
- Actively pursue economic promotion of trail routes with local towns.

Outcome of Action Steps: Aitkin County now offers over 213 miles of Grant-In-Aid trails. Local communities actively promote OHV recreation in the area and see first-hand the economic benefits and commerce. The establishment of trails with enforcement and education included has resulted in positive local support. Parking areas have been established and there are over 35 informational sign locations throughout the Northwoods trail system to help orientate recreation users. The growth in trail and recreation user has doubled in the last 10 years and further work towards youth safety training areas are being considered.

The Axtell Technical Riding Area was developed and completed in 2016. Located off the North Soo Line Trail less than three miles northwest of McGregor, Axtell offers a variety of obstacles for ATV and OHM riders of all skill level including a hill climbs, mud pits, log crawls, and rock crawls just to name a few.

In 2017, the Northwoods ATV Trail was designated as a Trail of Regional Significance by the Greater Minnesota Regional Parks and Trails Commission (GMRPTC). It was the first motorized trail to receive that distinction. The GMRPTC was established in 2013 to carry out system planning and provide recommendations to the legislature for grants funded by the Legacy parks and trails fund to counties and cities outside the seven-county metropolitan area for parks and trails of regional significance. Prior to the establishment of the GMRPTC, Greater Minnesota did not have an established history of comprehensive planning for regional parks and trails. Designation provides equal opportunity to apply for funding.

Equestrian Trails

• Explore possibilities for a designated equestrian trail that will meet the need of user groups.

• Identify opportunities to collaborate with a rider group or equestrian club on trail planning, development, and maintenance.

Outcome of Action Steps: Very little to date. Further evaluations are needed for 2020-2030 recreation planning and development.

Geocaching

- Develop guidelines and online registry process for caches located on county-managed lands.
- Identify opportunities to collaborate with local communities and geocaching interests to enhance geocaching opportunities in the county.

Outcome of Action Steps: Developed an application process. Worked with geocaching.com to require office review prior to placing new caches on County Land. Have two permanent caches on County Land. Have done the Geocaching Challenge for three years and there is opportunity to expand.

Birding/Wildlife Observation

• Explore opportunities to develop interpretive trails and other services to support birding and/or wildlife watching opportunities on county managed forestlands.

Outcome of Action Steps: Multiple pollinator and scenic outlooks have been established throughout the county. There are now 60 acres of pollinator areas in 12 locations across the county. Also have birding trails at Long Lake Conservation Center and Cornish Hardwoods Area. Conducted prescribed burn to improve habitat for sharp-tailed grouse.

Waterway Trails

- Evaluate existing accesses and campsites to identify opportunities for improvement.
- Investigate feasibility of outfitter and guiding services being developed in the region.

Outcome of Action Steps: The development of two designated water trails in Aitkin County was accomplished. The Mississippi Water Trail goes from Berglund Park to Waldeck Access, a distance of 13.3 miles. Sissabagamah Water Trail goes from the city park in Aitkin to the Mississippi River access, a distance of 2.3 miles. It winds through natural, undisturbed areas of the city.

Hiking/Hunter Walking Trails

- Evaluate opportunities to expand existing hunter walking trail opportunities.
- Continue to enforce enforcement and monitoring plan on ATV trails to ensure compliance with the county ordinance as well as applicable laws.

Outcome of Action Steps: Very little to date. Further evaluations are needed for 2020-2025 recreation planning and development.

Cross-Country Skiing

- Continue to maintain existing cross-country skiing opportunities.
- Explore possible expansion via land exchange.

Outcome of Action Steps: Enhanced trail infrastructure in the past decade has taken place in the form of trail reformation and clearing. Multiple pollinator and scenic outlooks have been established throughout

the county. Today, Aitkin County x-country ski trails offer 17.1 miles of trail with basic amenities.

Forest Access Roads

- Monitor road conditions and close roads as necessary due to season or safety concerns.
- Maintain road signs that indicate allowed uses.
- Evaluate and maintain a balance of motorized and non-motorized designations.
- Consider developing a map of forest access roads that are available for recreation.

Outcome of Action Steps: Continued work on the road system for multi-use activities. Continually fine-tuning the balance between motorized use and non-motorized use. Maintenance to the road systems are annual evaluations that indicate overall health of the infrastructure. Annually, more than \$50,000 is spent on maintenance and forest road projects. Further work to prioritize projects is to be considered in land management practices moving forward in the 2020-2030 planning.

Parks and Recreation Areas

- Inventory and evaluate existing campgrounds to determine current conditions and opportunities for enhancements.
- Consider development of enhanced online reservation information, including photos of campsites, GPS location information, trip planning functionality (e.g., MapQuest or Google), etc.

Outcome of Action Steps: An inventory system for ATV trails has been developed and campground reservations are done on-line.

Long Lake Conservation Center

• Continue to maintain and promote recreation opportunities as compatible with environmental education mission and purpose.

Outcome of Action Steps: Long Lake's purpose is to inspire a deep appreciation of nature so that all those who experience Long Lake build skills and respect the natural world surrounding them and accomplish life-long stewardship of the Conservation Center. LLCC welcomes hundreds of school kids from around the state each year and has since 1963. The infrastructure is also used by local clubs and the general public. Despite the closure in 2020-2021, LLCC remains a priority for the County and County Board. Active methods of promotion are carried out via staff and events that involve use of Long Lake properties. Further promotion comes through internal health promotion events pertaining to natural surfaced hiking/running events.

Conclusion

The County developed the 1st Generation Comprehensive Recreation Plan to help ensure that abundant recreation opportunities can be offered in Aitkin County while addressing increasing demands, responding to emerging trail-based recreation interests and while protecting natural resources, wildlife, forests, and soils. The planning process helped identify which recreation uses best fit which areas so that conflicts can be minimized and resources protected.

Aitkin County is interested in attracting a variety of outdoor recreation enthusiasts to the trails that are available in the county, while maintaining natural resource and wildlife habitat protections. Land use and trail management plans must be compatible with the county's Forest Stewardship Council (FSC)

certification requirements. The trail system is supported by monitoring and enforcement plans and signs and trail markings support high quality trail user experiences.

Aitkin County includes a number of local recreation clubs and sportsmen's groups that are important partners in managing recreational trails. Various snowmobile clubs and ATV clubs assist with maintaining grant-in-aid trail routes. Members of these clubs also serve as park and trail ambassadors to support monitoring efforts as well as participating in youth safety and training events.

The county currently does not offer specifically designated trails on county-managed lands specific to snowshoeing, skijoring, dog sledding, or mountain biking. In accordance with the County Parks and Recreation Ordinance, county forest roads are open to highway licensed vehicle use unless gated or posted closed. County lands are also not compatible with paved trail development (e.g., for biking or rollerblading).

SECTION TWO – SECOND GENERATION PLAN











Introduction – Future Recreation Management in Aitkin County 2020-2030

The outcomes of Aitkin Counties' Master Recreation Plan development of 2010 led to identifying opportunities and action steps to enhance trail-based recreation. The success of the recreation base of Aitkin County has developed exponentially however, it is also a continuously changing element. The following action steps and identified areas are the targeted areas to be either maintained, enhanced, or established in Aitkin County for the following decade. Below are the individual areas identified and progress to be made for each action step.

GENERAL THEMES

Public Feedback Mechanisms

Action Step: Further development of surveying tools that incorporate remote accessibility via personal electronic devices and other public input.

Throughout the past 10 years, the development of multiple surveying tools has been implemented to track the user bases found throughout Aitkin Counties' recreation resources and allow for insight into the pulse of the recreation resource. With further enhancements of technology and use of personal digital devices, user feedback uploads from a variety of sources will be readily available. Example may include:

- QR code signs with internet surveying/questionnaire tools (rate system of trail)
- ATV Trail Economic Impact Survey (anecdotal information from business')
- Traf-X Seismic Traffic Counters Study (quantitative data via non-bias counting technology)
- Aitkin County Campground Revenue Study (quantitative data via actual campground revenues)
- Web design incorporation of attached QR Rate Trails (via survey software such as Survey Monkey, Datahub, Survey Junkie, Doodle Survey, etc.)

Monitoring and Enforcement

Action Step: Implementation of written monitoring and enforcement plans.

Monitoring and enforcement remain key strategies for reducing and managing the risk of environmental and social conflicts associated with recreation trails. Throughout the upcoming decade, enforcement efforts will continue to focus on educating Aitkin County recreation users in the parks and on the trails.

- Law Enforcement Local law enforcement such as the Minnesota Department of Natural Resources Conservation Officers and the Aitkin County Sheriff's Department are able to effectively manage conflicts throughout the trail systems of Aitkin County.
- Aitkin County Land Department Staff Foresters are utilized to carry out monitoring of trails and to ensure proper infrastructure is upheld on the trails. They also serve as educators.
- Volunteer Trail Ambassadors This is a program that promotes safety on the trail system through volunteers. The Minnesota Trail Ambassador Program is tailored to ATV-based trail work.
- Civilian-Based Enforcement Local recreation users and other natural resource recreation users are encouraged to report un-safe or negative behavioral use of recreation infrastructure. If

unlawful, local law enforcement should be notified. Anything else should be reported to the ACLD.

Planning and Collaboration

Action Step: In the past ten years, the establishment of a multitude of recreation resources has required continuous collaboration and planning.

The need for collaboration and planning has fallen idle and is now better addressed on a "when needed basis". Future needs for additional planning and collaborative efforts in the county regarding recreation resources may be limited.

- Identify areas for improvement followed by methods to mitigate the problem.
- Opportunities for collaboration are brought to advisory groups or outside committees.
- Follow up to the planning & collaboration process will produce action steps.
- Guidance from Mississippi Headwaters Board 2019 Comprehensive Plan.
- Wait for next areas of collaboration as they present themselves.

Education and Promotion

Action Step: Updates to trail system identities via maps, signs, logos, websites, emergency location services etc.

With the developed recreation opportunities that are offered in Aitkin County, further development of new areas within the trail systems or recreation resources is a constant. Promoting recreation resource in Aitkin County as "Family Friendly" will be addressed, where appropriate, in future advertising campaigns.

- There is a recognized need to increase the development and updating of maps and signage throughout the recreation resources to ensure users have the ability to explore the majority of opportunities that exist throughout the county.
- Further work to promote the recreation resources in Aitkin County through updates to web-based advertising along with public and private business promotion through connections of recreation trails to business centers.
- The use of private business advertisement allows for further exposure with minimal government tax-based expenses.

SPECIFIC RECREATION OPPORTUNITIES

ATV/OHM Trails

- Completion of Mille Lacs Connector Trail.
- Exploration and feasibility of OHM single track trails.
- Continue enforcement and monitoring of ATV trails to ensure compliance with county ordinances and applicable laws.
- Northwoods Regional Trail expansion to multi-county recognized trail.
- Feasibility study of eastern Aitkin County ATV connector trail.

• ATV trail tread conversions and restructuring – class 1 trails to class 2 trails

Equestrian Trails

- Third Guide
 - Information kiosk development.
 - Improved trail tread.
 - Additional signage and marking of trails.
 - Campsite development.
- Cornish Ridge Back Trails
 - Feasibility and usage study.
 - Research on trail parameters.
 - Development of mapping, area history, and marking of trails.

Waterway Trails

- Mississippi River Trail
 - Continuation of day use segments in Aitkin County. Signage along the river currently underway. Mississippi Headwaters Board has already signed from Palisade to Aitkin Campground.
- Snake River
 - Explore opportunities for use.
 - Trail information and day use planners for recreation users.
- Ripple River
 - Aid in establishing water trail that connects City Park to County Campground.

Hiking/Hunter Walking Trails

- Chipper Road Corridor.
- Expansion of walking areas specifically designed for non-motorized use.
- Trail tread rehabilitation from motorized use.
- Evaluate opportunities to expand existing hunter walking trails.
- Identify funding sources to aid in the development and maintenance of non-motorized hunting trails.
- Market Aitkin County hunting trails as destination hunting.

Park & Recreation Areas

- Sissabagamah Creek confluence.
- Explore what types of recreation opportunities are possible/allowed.
- Installation of fishing piers/docks where feasible.

Cross-Country Skiing

- Continue to maintain existing 17.1 miles of cross-country ski trails that are open to public use with the purchase of a MN DNR GIA "Ski Pass".
- Explore possible land exchange for expansion of cross-country ski sections that would utilize ATV trails that are closed for the winter. This would be on a rotational basis (Termed "Revolving Ski Trail" by ACLD).

Fat Tire Bike Trails

Identify low impact fat tire bike trails with favorable trail attributes (topography, scenic vistas,

etc.)

- Develop winter use low impact fat tire bike trails utilizing public lands.
- Capture fat tire bike trail usage with data collectors.
- Complete feasibility study to determine need and desired use of trails.
- Construct year-round use trail system if recreation usage shows as desired use in Aitkin County.

Sled Dog Trails

- Identify size of recreation user group interest and club affiliates in Aitkin County
- Feasibility study if gauged interest is sufficient

Primitive Camping

- Identify unique scenic areas for campsite viewing vantage points.
- Identify emergency services needed for establishment of camp areas.
- Establishment of 6 primitive campsites throughout Aitkin County properties.
- Establishment of campsites off recreation trails already on landscape.

In addition to the Aitkin County forest road system of more than 300 miles and the more than 600 miles of groomed snowmobile trails, the county has a number of existing trails and recreation facilities.

Motorized Recreation Trails:

Blind Lake ATV Trail

Hill City Connector ATV Trail

Lawler Loops ATV Trail

Moose River/Emily Connector ATV

Trail

Rabey Line ATV Trail

Red Top ATV Trail

Solana ATV Trail

Soo Line ATV Trails (North and

South)

Campgrounds:

Aitkin Campground (Aitkin) 9 sites

Berglund Park Campground

(Palisade) 9 sites

Jacobson Campground (Jacobson) 12

sites and 2 Camper Cabins

Snake River Campground (South of

McGrath) 12 sites

Hiking and Cross-Country Ski Trails:

Long Lake Conservation Center Hiking and Cross-Country Ski Trails

No Achen Cross-Country Ski Trail

Vispo Property Hiking and Cross-

Country Ski Trails

Jacobson Campground Walking Trail

Hunting/Fishing Trails:

Hunter/Walker Trails (Non-Motorized

Forest Roads) - 13 miles

Snake River Walking/Fishing Trail

Twin River Springs Walking/Fishing

Trail

Chipper Road

Third Guide

Recreation Facilities:

Jacobson Wayside Rest

Browns Lake Snowmobile/ATV

Shelter

Lake Accesses (Carry-in and Trailer)

Swimming Beaches:

Lone Lake

Round Lake

Regional and National Trails

Northwoods Regional ATV Trail System

- 215 miles of natural surface trail in Grant-in-Aid sponsored status.
- Developed in Aitkin and Itasca Counties.
- Extensions of trail connection to Crow Wing County in 2021.
- Connects with Soo Line Trails and other existing routes to make continual looping trails with destination areas.
- Uses: ATV/OHM (primary), walking, horseback riding (secondary).

North Soo Line Trail

- 148-mile natural surface trail.
- Located in Carlton, Aitkin, and Cass Counties.
- Connects with South Soo Line Trail.
- Runs through Hill River State Forest, Bowstring State Forest, and Chippewa National Forest.
- Possible connection to Rabey ATV Line (in Aitkin County), Blind Lake ATV Loop (in Aitkin County), Willard Munger State Trail, Cuyuna Lakes State Trail and Taconite State Trail.
- Uses: snowmobiling, ATV/OHM

South Soo Line Trail

- 126-mile natural surface trail.
- Located in Carlton, Pine, Aitkin, Mille Lacs and Morrison Counties in MN and Douglas County in WI.
- Connects to Red Top ATV Loop (in Aitkin County) and North Soo Line Trail.
- Runs through Solana State Forest and near Mille Lacs State Park and General Andrews State Forest.
- Possible connection to Willard Munger State Trail and Cuyuna Lakes State Trail.
- Uses: snowmobiling, ATV/OHM

Cuyuna Lakes State Trail

- Eight miles of paved trail from Crosby to Riverton.
- One mile passes through the City of Aitkin along State Highway 169.
- 25-mile single track mountain bike trail system.
- Duel treadway trail.

North Country National Scenic Trail

- 4,600-mile trail (not completed).
- Located in New York, Pennsylvania, Ohio, Michigan, Wisconsin, Minnesota, and North Dakota.
- Possible connection to Willard Munger, Taconite, Paul Bunyan, and Heartland State Trails in Minnesota.
- Uses: hiking, biking, snowmobiling.

Emergency Management

Emergency events may occur on county-managed lands and recreation trails. To minimize the negative impacts of emergency events, it is important to be prepared for them to the extent possible and to plan trails to allow for Emergency Medical Service (EMS) access.

Tips for Emergency Medical Service (EMS) preparedness includes:

- **Pre-plan** for trail rescue by equipping vehicles with maps of trails in your service area. Mark the access points and make sure you know the limitations for vehicle access.
- **Know the capabilities** of trail surfaces to support vehicle traffic. A trailhead wide enough for an ambulance or rescue truck may not stay that wide or be able to support the vehicle weight.
- **Request additional resources** early, like an ATV with rescue trailer, so it is ready if the ambulance cannot access the patient.
- **Always have the essentials** with you for assessment and the treatment of life threats. Patients are invariably much closer or much further from the trail head than anticipated.
- **Warn other trail users** of an on-trail emergency. Ask them to slow down before passing the incident or reroute as needed.
- Leave at least **one person at the ambulance**. After finding the patient, you may realize that the safest and easiest extrication point is different than the ambulance location.
- **Schedule a training exercise** to locate, access, and extricate a simulated injured trail user from a remote trail. Apply those lessons to preplanning for a future incident.

Source: http://www.ems1.com/ems-products/patient-handling/tips/500771-Accessing-Patients-on-Trails/

Helicopter Evacuations

It is possible that a helicopter evacuation could be necessary in response to an emergency on a recreation trail in Aitkin County. To address this possibility, the county should coordinate with local emergency service providers and first responders to evaluate existing access and evacuation preparedness plans.

The following table (Table 1) indicates the specifications for planning and constructing helicopter landing sites (helispots) according to the National Interagency Fire Center.

Table 1: Specifications for Planning and Constructing Helispots

Helicopter Type	1	2	3
Touchdown Pad	30' x 30'	20' x 20'	15' x 15'
Dimension			
Safety Circle	110'	90'	75'
Diameter			

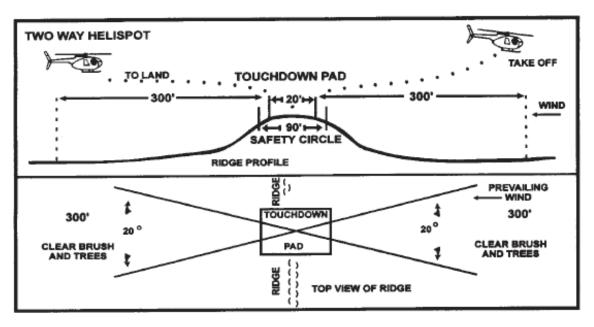
Source: NIFC, 2006; www.nifc.gov/ihog/chapters/2006chapter08.pdf

Type 1 are the heaviest helicopters with a weight >12,501 lbs. and 15 or more passenger seats.

Type 2 are 6,000-12,500 lbs. and 9-14 seats

Type 3 are up to 6,000 lbs. and 4-8 seats.

Figure 1. Example of a Two-Way Helispot (Type 2)



Source: NIFC, 2006; www.nifc.gov/ihog/chapters/2006chapter08.pdf

Trail Suitability Matrix

Background

The Trail Suitability Matrix has been designed to support the development of the Aitkin County Comprehensive Recreation Plan. The Matrix provides a framework for evaluating recreation areas, trails, and resources in the county to determine which activities and recreational uses are suitable for each area. The suitability of a given recreation type for a given area depends upon a number of factors, including soil types, the occurrence of rare species or habitats, proximity to residential areas and other site characteristics. Identifying suitable uses for each area is an important step for supporting the development of a comprehensive plan for trail-based recreation on county-managed lands.

Description

Different types of recreation require different conditions and create various types of impact at the local and landscape scale. While most types of recreation are suitable somewhere, not all types are suitable everywhere. By evaluating which recreational activities are suitable for specific sites, designated uses can be planned to minimize negative impacts and to manage trail construction and maintenance costs. Appropriate trail layout and design also creates better user experiences and safer trail conditions.

Trail Suitability Criteria

The Trail Suitability Criteria describe the site characteristics to be considered when identifying appropriate recreation activities for a given area. The criteria also help support the overall goals for the Comprehensive Recreation Plan, including:

- Guiding recreation trail management on county managed lands,
- Evaluating current recreation demands to identify opportunities to enhance recreation opportunities while balancing natural resource protections and competing land uses, and
- Providing an opportunity to gather public input to help inform the management of recreation trails.

Evaluation Process

The following table (Table 1) lists the Trail Suitability Criteria and the ranking system for determining if a given area is (1) suitable for a specific use, (2) suitable with mitigations, or (3) not suitable. The ranking system distinguishes between motorized and non-motorized recreation types. Based upon maps that illustrate existing recreation resources as well as soil conditions, wetland areas, known occurrences of rare species and habitats, residential areas, public waters and services (gas, food, lodging, parking), the following criteria are applied and areas can be ranked for their suitability for motorized and non-motorized recreation activities.

Table 2. Trail Suitability Criteria

	Motorized Recreation			Non-Motorized Recreation			
	1 Suitable	2 Suitable with Mitigations	3 Not Suitable	1 Suitable	2 Suitable with Mitigations	3 Not Suitable	
Visual Quality and Landscape	Diverse, dramatic or high interest scenic features.	Few high interest scenic features.	No high interest scenic features.	Diverse, dramatic or high interest scenic features.	Few high interest scenic features.	No high interest scenic features.	
Trail Linkages and Networks	Critical link in existing system or opportunity for important new link	Linking is possible but would require significant mitigations.	No significant linking opportunities	Critical link in existing system or opportunity for important new link	Linking is possible but would require significant mitigations.	No significant linking opportunities	
Existing Trail Use	Current, well maintained and appropriate trail use	Current trail use, but trail is not well or easily maintained or trail is underutilized.	No current use and/or trail not compatible with use.	Current, well maintained and appropriate trail use	Current trail use, but trail is not well or easily maintained or trail is underutilize d.	No current use and/or trail not compatible with use.	
Proximity to Residential Areas	Trail is at least 2 miles from sensitive residential areas	Trail is at least 1 mile from sensitive residential areas	Trail is less than 1 mile from sensitive residential areas	No limitations	No limitations	No limitations	
Proximity to Services (gas, food, lodging, campgrounds, rest stops)	Services available within 20 miles of trailhead	Services available within 40 miles of trailhead	Services available within 60 miles of trailhead	No limitations	No limitations	No limitations	
Access to Drinking Water	No limitations	No limitations	No limitations	Water available at trailhead, parking area or camping area	Water available within 1/2 mile of trailhead, parking area or camping area	Water available within 2 miles of trailhead, parking area or camping area	

(Table 2. Continued)

Tuble 2. Contin	Motorized Recreation		Non-Motorized Recreation			
	1 Suitable	2 Suitable with Mitigations	3 Not Suitable	1 Suitable	2 Suitable with Mitigations	3 Not Suitable
Safety Considerations and Access for Emergency Services (lighting, night use of trails)	No safety hazards and sufficient access for emergency services	Some safety hazards and/or some barriers to emergency service access	Significant safety hazards and/or severely limited emergency service access.	No safety hazards and sufficient access for emergency services	Some safety hazards and/or some barriers to emergency service access	Significant safety hazards and/or severely limited emergency service access.
Trailheads, Gates and Signage	Existing, well- maintained	Need minor repair or replacement	Absent and/or in dis-repair	Existing, well- maintained	Need minor repair or replacement	Absent and/or in dis-repair
Availability of Parking Areas	Adequate capacity and well-maintained parking area (including trailer spaces)	Limited capacity and/or difficult to maintain parking area	No parking area and/or no appropriate area to developing parking	Adequate capacity and well-maintained parking area (including trailer spaces)	Limited capacity and/or difficult to maintain parking area	No parking area and/or no appropriate area to developing parking
Opportunities for Public Education	Areas for interpretive signs or other educational services	Few opportunities for public education	No opportunity for public education	Areas for interpretive signs or other educational services	Few opportunities for public education	No opportunity for public education
Soil Conditions, Slope and Grade	Gentle grades, stable soils and no cross slopes	Some areas of sensitive soils, steep slopes or steep grades	Significant areas of sensitive soils, steep slopes or steep grades	Gentle grades, stable soils and no cross slopes	Some areas of sensitive soils, steep slopes or steep grades	Significant areas of sensitive soils, steep slopes or steep grades
Rare, Threatened or Endangered Species or Habitats	No records of RTE Species or Habitats	Known RTE species or habitats but with limited risk of disturbance	Sensitive RTE species or habitats are present and could be impacted	No records of RTE Species or Habitats	Known RTE species or habitats but with limited risk of disturbance	Sensitive RTE species or habitats are present and could be impacted
Wetlands and Public Waters	No wetlands, shorelines or water crossings	Limited wetlands, shorelines or water crossings*	Extensive wetlands, shorelines or water crossings*	No wetlands, shorelines or water crossings	Limited wetlands, shorelines or water crossings*	Extensive wetlands, shorelines or water crossings*
Cultural Resources or Historic Sites	No sensitive sites	Some sites, but well protected	Sensitive sites vulnerable to disturbance	No sensitive sites	Some sites, but well protected	Sensitive sites vulnerable to disturbance

Criteria that Apply to All Trails:

	ALL TRAILS					
	1 Suitable	2 Suitable with Mitigations	3 Not Suitable			
Visual Quality and Landscape	Diverse, dramatic or high interest scenic features.	Few high interest scenic features.	No high interest scenic features.			
Trail Linkages and Networks	Critical link in existing system or opportunity for important new link	Linking is possible but would require significant mitigations.	No significant linking opportunities			
Existing Trail Use	Current, well maintained and appropriate trail use	Current trail use, but trail is not well or easily maintained or trail is underutilized.	No current use and/or trail not compatible with use.			
Proximity to Residential Areas	Trail is at least 2 miles from sensitive residential areas	Trail is at least 1 mile from sensitive residential areas	Trail is less than 1 mile from sensitive residential areas			
Proximity to Services (gas, food, lodging, campgrounds, rest stops)	Services available within 20 miles of trailhead	Services available within 40 miles of trailhead	Services available within 60 miles of trailhead			
Safety Considerations and Access for Emergency Services (lighting, night use of trails)	No safety hazards and sufficient access for emergency services	Some safety hazards and/or some barriers to emergency service access	Significant safety hazards and/or severely limited emergency service access.			
Trailheads, Gates and Signage	Existing, well- maintained	Need minor repair or replacement	Absent and/or in dis-repair			
Availability of Parking Areas	Adequate capacity and well-maintained parking area (including trailer spaces)	Limited capacity and/or difficult to maintain parking area	No parking area and/or no appropriate area to developing parking			
Soil Conditions, Slope and Grade	Gentle grades, stable soils and no cross slopes	Some areas of sensitive soils, steep slopes or steep grades	Significant areas of sensitive soils, steep slopes or steep grades			
Rare, Threatened or Endangered Species or Habitats	No records of RTE Species or Habitats	Known RTE species or habitats but with limited risk of disturbance	Sensitive RTE species or habitats are present and could be impacted			
Wetlands and Public Waters	No wetlands, shorelines or water crossings	Limited wetlands, shorelines or water crossings*	Extensive wetlands, shorelines or water crossings*			
Cultural Resources or Historic Sites	No sensitive sites	Some sites, but well protected	Sensitive sites vulnerable to disturbance			

Streamlined Criteria for "Summer Only" Trails and Scoring System for GIS Mapping Analysis:

Summer-Only Trail Mapping and Scoring						
	Summer-Only Motorized			Summer-Only Non-Motorized		
	1	2	3	1	2	3
	Suitable	Suitable	Not	Suitable	Suitable	Not
		with	Suitable		with	Suitable
		Mitigations			Mitigations	
Existing Trail	Current,	Current trail	No current	Current,	Current trail	No current
Use	well	use, but trail	use and/or	well	use, but trail	use and/or
	maintained	is not well or	trail not	maintained	is not well or	trail not
	and	easily	compatible	and	easily	compatible
	appropriate	maintained or	with use.	appropriate	maintained or	with use.
	trail use	trail is	3 Points	trail use	trail is	3 Points
	1 Point	underutilized.		1 Point	underutilized.	
		2 Points			2 Points	
Proximity to	Trail is at	Trail is at	Trail is less	No	No	No
Residential	least 2	least 1 mile	than 1 mile	limitations	limitations	limitations
Areas	miles from	from	from			
	sensitive	sensitive	sensitive			
	residential	residential	residential			
	areas 1 Point	areas 2 Points	areas 3 Points			
Doma	No records	Known RTE	Sensitive	No records	Known RTE	Sensitive
Rare, Threatened or	of RTE	species or	RTE species	of RTE	species or	RTE species
Endangered	Species or	habitats but	or habitats	Species or	habitats but	or habitats
Species or	Habitats	with limited	are present	Habitats	with limited	are present
Habitats	1 Point	risk of	and could be	1 Point	risk of	and could be
Haoitats	110000	disturbance	impacted	110000	disturbance	impacted
		2 Points	3 Points		2 Points	3 Points
Wetlands and	No	Limited	Extensive	No	Limited	Extensive
Public Waters	wetlands,	wetlands,	wetlands,	wetlands,	wetlands,	wetlands,
	shorelines	shorelines or	shorelines or	shorelines	shorelines or	shorelines or
	or water	water	water	or water	water	water
	crossings	crossings	crossings	crossings	crossings	crossings
	1 Point	2 Points	3 Points	1 Point	2 Points	3 Points
Soil	Gentle	Some areas	Significant	Gentle	Some areas	Significant
Conditions,	grades,	of sensitive	areas of	grades,	of sensitive	areas of
Slope and	stable soils	soils, steep	sensitive	stable soils	soils, steep	sensitive
Grade	and no	slopes or	soils, steep	and no	slopes or	soils, steep
	cross	steep grades	slopes or	cross	steep grades	slopes or
	slopes 1 Point	2 Points	steep grades 3 Points	slopes 1 Point	2 Points	steep grades 3 Points
Total Score	1 1 0000		JIVIIIIS	1101111		J I UIIIIS
Total Score						
				l .	l .	l l

Northern Minnesota is home to a number of existing state and regional recreation trails, including those already managed by the Aitkin County Land Department. The Aitkin County Second Generation Comprehensive Recreation Plan incorporates the potential to link to these trails and the need to address existing land management plans and objectives.

Within Aitkin County, there are state, county, and federally administered lands that provide recreation opportunities, including Savanna Portage State Park and the Rice Lake National Wildlife Refuge.

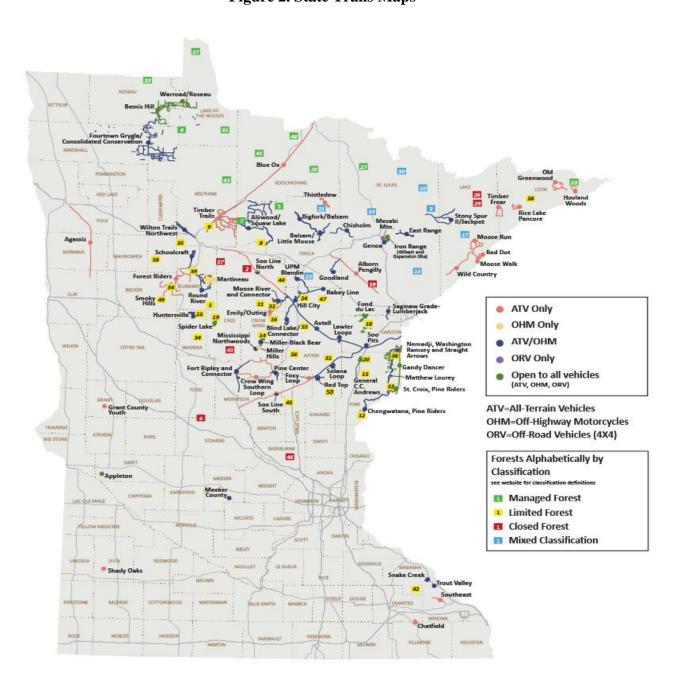


Figure 2. State Trails Maps

Figure 3. OHV Trail Locations Map

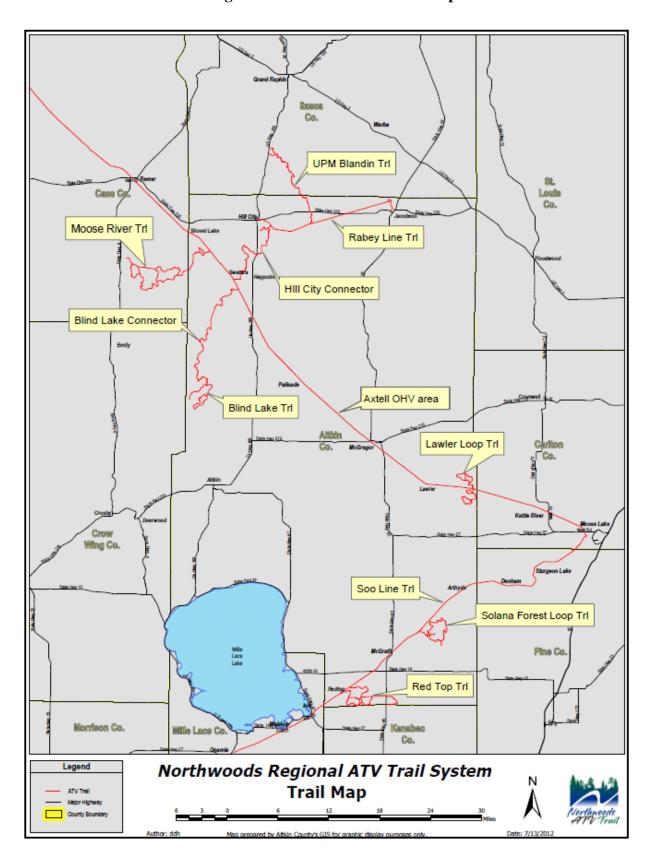


Figure 4. Aitkin County Public Lands

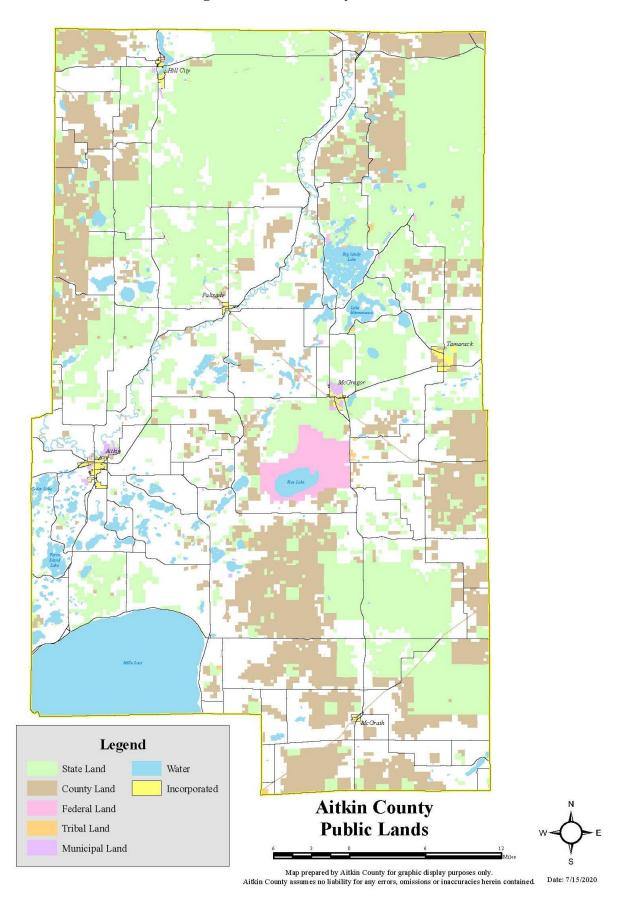


Figure 5. ACLD Maintained Forest Roads

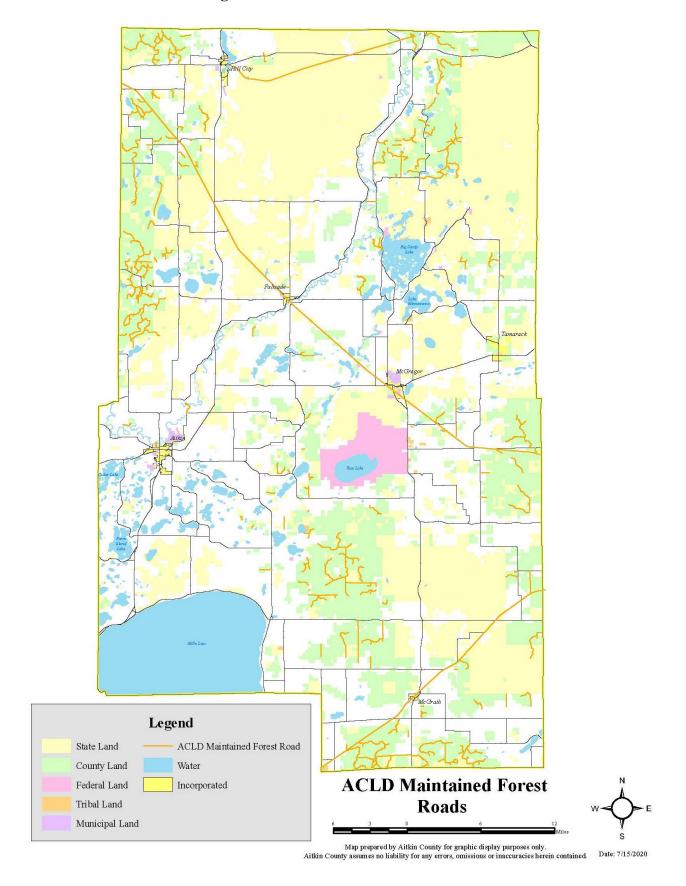


Figure 6. ACLD Snowmobile Trails

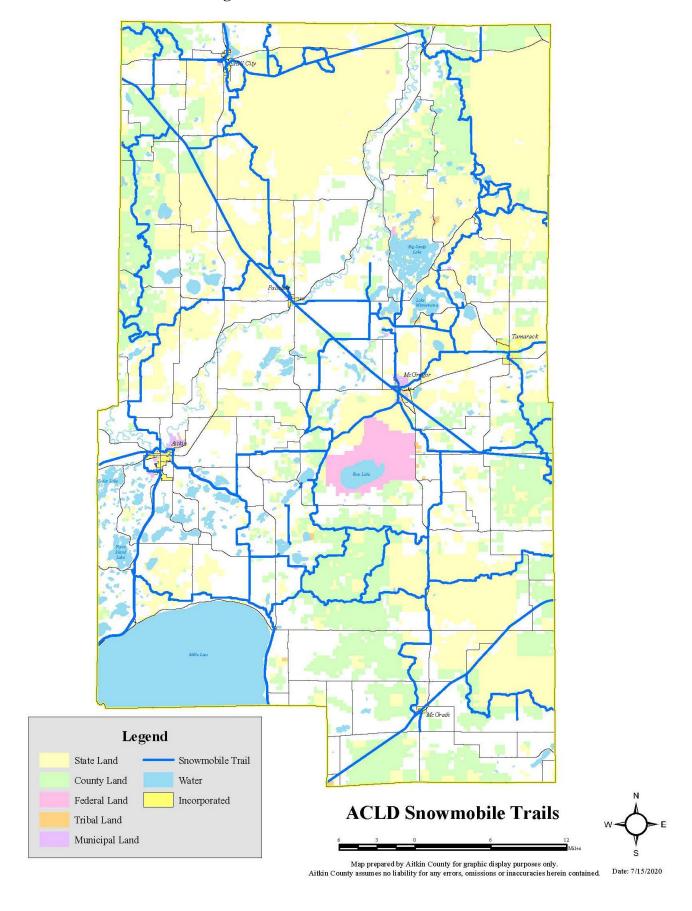


Figure 7. ACLD ATV Trails





Figure 8. No Achen Ski Trails

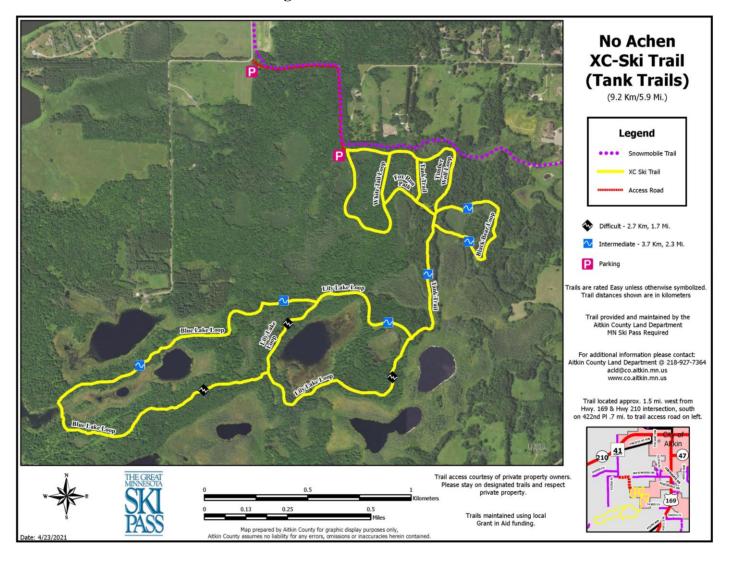


Figure 9. LLCC Ski Trails

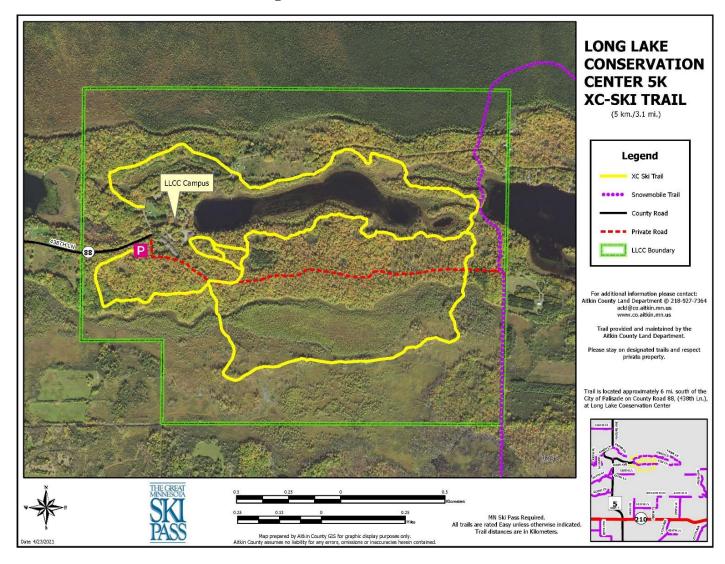


Figure 10. Vispo Ski Trails

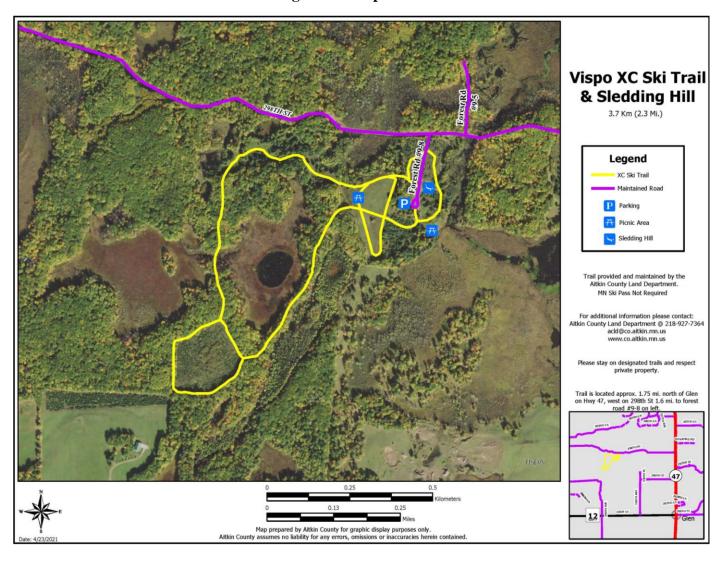


Figure 11. Aitkin County Campgrounds

