













Camp Ripley Sentinel Landscape Strategic Plan 2024-2034





Where Missions Meet



# **Acknowledgements**

This plan update was led by the Leadership Team from October 2023 - June 2024. Camp Ripley Sentinel Landscape (CRSL) partners (Appendix A) met at the beginning and end of the plan update to provide data, comments, and guidance. Individual goals, objectives, and policies in this plan will be reviewed biennially. Major revisions will be formally reviewed every five years.

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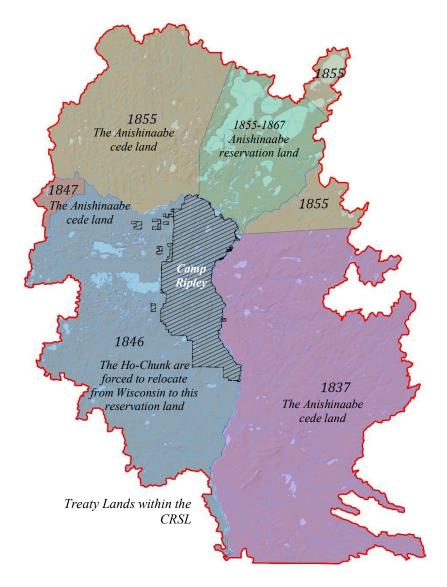


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# **Acknowledgement of Ancestral Lands**

The CRSL includes traditional, ancestral, and contemporary lands of the Očhéthi Šakówiŋ (Dakota Sioux) and Anishinaabe (Ojibwe/Chippewa). We acknowledge these peoples are the original caretakers of the land comprising the CRSL. With this acknowledgement we hope to highlight the legacy of Euro-American's ongoing effects on modern indigenous communities and end the erasure of Native American peoples from the public discourse. Land relationships between these groups had long been contentious. Euro-Americans eventually began offering Land Treaties and reservation lands; heavily favoring themselves. In the project area, this began in 1837 and continued through 1867 (see map). We also



acknowledge the Dakota peoples never ceded their lands within the project area, and it was instead signed away for them. This land acknowledgement is intended to help educate the community about this history.

<u>Source</u>: Nienow Cultural Consultants. 2022. Many Layers to the Land: A Cultural and Environmental Geodatabase Build for the Camp Ripley Sentinel Landscape. Funded by the Clean Water Land and Legacy Amendment.





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# **Executive Summary**

Sentinel Landscapes are working or natural lands important to the Nation's defense mission places where preserving the rural character of key landscapes strengthens the economies of farms, ranches, and forests; conserves habitat and natural resources; and protects vital testing and training missions conducted on those military installations that anchor such landscapes. The Sentinel Landscape partnership is a federal, local, and private collaboration dedicated to promoting natural resource sustainability and the preservation of agricultural and conservation land uses in areas surrounding military installations nationwide.

The Sentinel Landscape partnership seeks to recognize and incentivize landowners to continue to maintain these landscapes in ways that contribute to the Nation's defense and climate resiliency. Where shared interests can be identified within a landscape, the partnership coordinates mutually beneficial programs and strategies to preserve, enhance or protect habitats for at risk species, working lands, and promote climate resilience near military installations to reduce, prevent or eliminate restrictions due to incompatible development or climate related impacts that may inhibit military testing and training.

#### The CRSL Mission is to protect the current and future military training mission of Camp Ripley while protecting and enhancing natural and cultural resources and preserving the rural character and economies of the landscape.

The CRSL focuses on the needs of communities and common interests in a defined geographical landscape. Successful landscape stewardship builds agency and organizational and community capacity, increases landowner trust through streamlined management and communications by partners, motivates landowners using messages and activities suited to their needs and supports the application of science and knowledge through well informed policies and practices.

This Strategic Plan is the implementing document for the CRSL Program during the period 2024 - 2034. The three main strategies for implementation include:

Outreach & Coordination Landowners, Partnerships Landowners, Partnerships Landowners, Partnerships Landowners, Partnerships Landowners, Partnerships ACUB Land Protection Easements & Acquisitions

The planning process used in developing the CRSL Strategic Plan focused on using Minnesota Statue 190.33, partners and other landscape key stakeholders including: the Department of Defense's Readiness and Environmental Protection Integration (REPI) Program, National Guard Bureau (NGB), U.S. Department of Agriculture (USDA), U.S. Department of the Interior (USDOI), Minnesota Army National Guard (MNARNG), Minnesota Department of Agriculture (MDA), Minnesota DMA, Minnesota Department of Natural Resources (DNR), Minnesota Board of Water and Soil Resources (BWSR), Mississippi Headwaters Board (MHB), CRSL Coordinator, TNC, Great River Greening (GRG), The Conservation Fund (TCF), SWCDs, and Counties. Together, these stakeholders represent the CRSL Partnership (Appendix A).



# **Section 1. Introduction**

This Strategic Plan provides articulated goals and objectives that promote and sustain compatible land uses for military operations while providing tangible benefits to conservation, climate resilience, and working lands within the defined landscape. The CRSL is an outgrowth of Camp Ripley's Army Compatible Use Buffer (ACUB) Program (nationally known as Army REPI) to limit rural residential land development within the ACUB Agreement Area (Figure 2, page 7) which undulates approximately three miles around the Camp's boundaries to reduce land uses incompatible with military operations. Since the ACUB Program's inception in 2004, approximately 35,000 acres of privately-owned land have been permanently protected through perpetual easements by BWSR and 2,000 acres have been protected through fee title acquisitions by the DNR to create a compatible land use buffer around the Camp. ACUB transactions, combined with lands permanently protected acres by nonprofits and government partners, now provide over 43,000 acres within the ACUB Agreement Area surrounding Camp Ripley.

### Background

Camp Ripley, located in the heart of central Minnesota, is approximately 100 miles northwest of the Minneapolis/St. Paul metropolitan area (Figure 1). Camp Ripley occupies a total area of 53,000 acres (approximately 82 square miles) within the posted limits of the installation, and approximately 1,700 acres off post. The primary mission of MNARNG is to provide a readily accessible training area to the U.S. Department of Defense and other civilian agencies to enhance the MNARNG's readiness for its federal, state and community missions. Those missions are respectively: respond with active service as directed by the President of the United

States in times of national emergency;



Figure 1: Location of Camp Ripley Training Center Minnesota.

assist local law enforcement agencies during state emergencies at the direction of the governor; and add value to local communities.

Camp Ripley Training Center (CRTC) is a state-owned National Guard installation administered by the DMA. An Integrated Natural Resource Management Plan (INRMP) is prepared and implemented in coordination with the DNR and U.S. Fish and Wildlife Service (USFWS) to guide natural resource management activities while enhancing military readiness through improved stewardship of the installation. The INRMP is a comprehensive five-year



plan for the MNARNG's military installations to ensure preparedness of the Armed Forces; conserve or rehabilitate installation natural resources; maintain or improve military installation resilience using natural or nature-based features; provide for sustainable multipurpose use of natural resources, including hunting and fishing; and facilitate public access, subject to ensuring safety and military security. Both the INRMP and CRSL SP are intended to promote shared information and connectivity that will enhance climate resilience, and target threatened, endangered, and at-risk species habitats. INRMP goals and objectives are reviewed and updated annually to ensure ecosystem-based management is achieved through the application of adaptive management practices.

### **Program History**

In 2004, the Department of the Army approved moving forward with the ACUB Program between the NGB and the DNR. In 2006, this formal cooperative agreement expanded to include BWSR integrating the Reinvest in MN (RIM) easement program, locally delivered by the Morrison SWCD.

The ACUB initiative is intended to maximize the compatibility of land use adjacent to Camp Ripley and thereby sustain not only the military mission but also the natural environment that Camp Ripley has been nationally recognized for. One of the largest threats to both the mission of Camp Ripley and the surrounding natural landscape is caused by external encroachment from incompatible development and internal encroachment resulting from significant land conversion from current natural state to other non-habitat compatible state. If significant lands are converted to a non-habitat state, Camp Ripley may become the only refuge for threatened and endangered species, at risk species, and species of special concern resulting in mission training impacts. Central Minnesota's population has grown by 6.5% between 2010 and 2022 (<u>ruralmn.org</u>). The population in Crow Wing County is projected to increase by about 29% to over 80,000 by 2035 (City of Baxter Comprehensive Plan 2015).

A ten-mile buffer was originally selected as the study area for the ACUB Agreement Area based on documented noise complaints. Noise is a significant encroachment issue; the projected noise contours are attributable to blast and airfield noise. The ACUB Agreement Area was narrowed to lands that lie within unacceptable noise contour zones (zone 1 and 2) that extend beyond the boundary of Camp Ripley. The noise contours were developed through a noise model prepared by the U.S. Army Public Health Command as part of Camp Ripley's Environmental Noise Management Plan. The approved ACUB Agreement Area allows for fee title and easement acquisitions and encompasses 131,459 acres in two priority areas. Priority Area 1 is comprised of 54,246 acres, and Priority Area 2 is comprised of 77,213 acres. The desired end state for the ACUB Program is to achieve 75% compatible land use within Priority Area 1 (40,685 acres), and 50% compatible land use within Priority Area 2 (38,607 acres) (60% overall). Compatible land use within the ACUB Agreement Area includes completed conservation easements and fee title acquisitions that are subject to the rights of



the Army under the provisions of 10 USC 2684a; federal and state-owned lands, or county lands (Figure 2).

In 2011, ACUB Program partners BWSR and Morrison SWCD were awarded funding from the Minnesota Outdoor Heritage Fund by the Lessard-Sams Outdoor Heritage Council (LSOHC). This state funding is available in a five-mile buffer around Camp Ripley for permanent conservation easements (BWSR RIM) to preserve open space and provide protection of habitat corridors and buffers around public lands, and enhancement and restoration practices that protect soil and water quality and habitat corridor connectivity (Figure 6, page 12). This five-mile buffer encompasses 252,637 acres of land. In addition, the Crow Wing SWCD received funding through a Legislative-Citizen Commission on Minnesota Resources (LCCMR) grant from the Environment and Natural Resources Trust Fund (ENRTF) for forest stewardship plans, Sustainable Forest Incentive Act enrollment, and ecological restoration in the CRSL.

In 2013, The U.S.

Departments of Defense, Agriculture and Interior announced an initiative titled "The Sentinel Landscape Partnership." This created a federal, local, and private collaboration dedicated to promoting natural resource sustainability in areas surrounding military installations nationwide. In Minnesota, working lands for agriculture and forestry and other natural lands provide many important public benefits; source and surface water protection, recreational opportunities for hunting and fishing, habitats for species of greatest conservation need, threatened and endangered species, shoreline protection of the Mississippi River, open space, commodity production, and maintaining the rural character of Minnesota. The ACUB

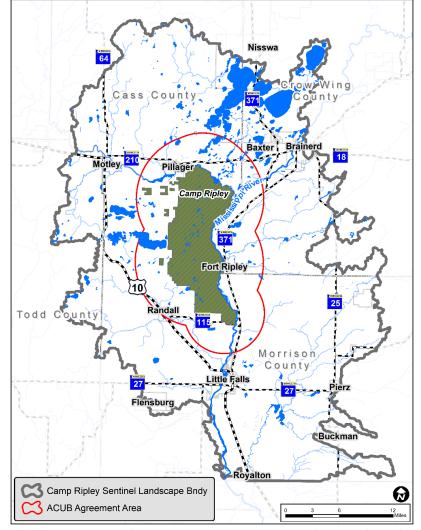


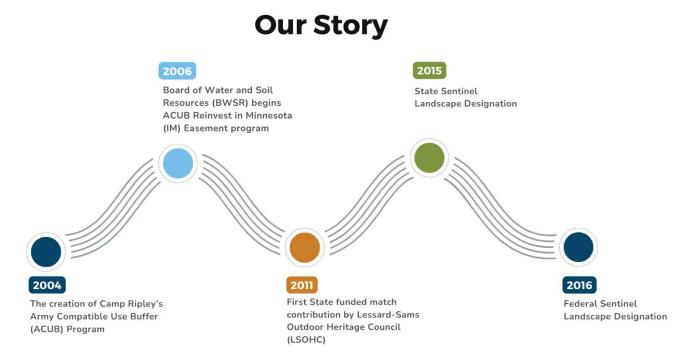
Figure 2: Camp Ripley ACUB Agreement Area and Sentinel Landscape boundary.



Program partners wished to expand services to private landowners within the ACUB Agreement Area and out to a 10-mile radius around Camp Ripley (Figure 2, page 7). Working in cooperation with the Minnesota Forest Resources Council (MFRC), a U.S. Forest Service (USFS) grant was awarded to develop a Landscape Stewardship Plan (LSP) to guide development of strategies to foster private forest management (PFM), working forests and technical support to landowners. An outcome of the LSP process was a watershed-based map intended to bring forest management goals and objectives into other statewide watershed plans currently underway (Minnesota Pollution Control Agency [MPCA] Watershed Restoration and Protection Plans; BWSR One Watershed, One Plan [1W1P]; and local county water plans.)

In May 2015, Camp Ripley, through state law (Minnesota Statue 190.33), was designated as the first state Sentinel Landscape in the nation. The designation established a state coordinating committee in March 2016. The group is comprised of state commissioners from BWSR, DMA, DNR, and MDA. This legislation allows the MNARNG to compete for federal funding more effectively from agencies beyond just the Department of Defense and to better align federal, state, and local programs that could support private landowners in a Sentinel Landscape. Federal agencies such as the Natural Resources Conservation Service (NRCS), USFS, and USFWS, who envision enhancing their program priorities and interests that are complementary to the CRSL, joined at the table. Reference Appendix 1, Partners.

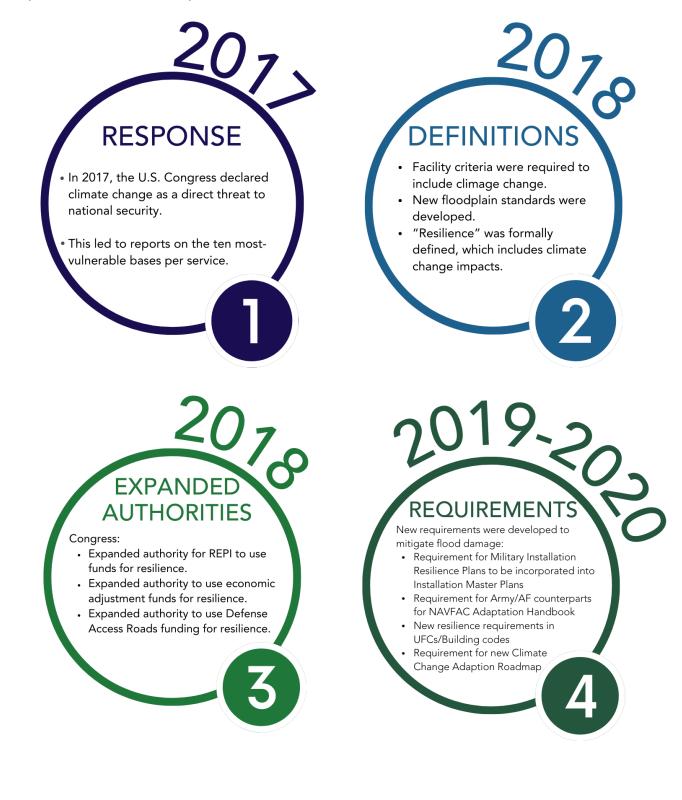
In 2016, Camp Ripley was designated as a federal Sentinel Landscape representing the formal partnership agreement between the U.S. Departments of Defense, Agriculture, and Interior. A timeline summarizing major milestones is illustrated below.





#### **Federal Steps to Addressing Climate Resilience**

The U.S. Congress has addressed climate resilience chronologically (John Cogner 2021 presentation). These steps are illustrated below.





### **Developing the Sentinel Landscape Boundary**

The CRSL boundary establishment began by evaluating Camp Ripley's priorities for protecting against encroachment. Camp Ripley identified noise contours, aviation routes, the fly neighborly program and regulated airspace as priority features (Figure 3). To leverage and expand on the conservation being implemented as part of the ACUB Program and on other public lands around Camp Ripley, the area for this project was expanded to incorporate consolidated priorities from the DNR, MDA, MHB, NRCS, and USFWS (Figure 4).

Watersheds were used to further define the project area boundary. Subwatersheds (Hydrologic Unit Code (HUC) 12), a local subwatershed level that encompasses tributary systems, were selected that were within ten miles of Camp Ripley and that had hydrologic connections within the 10-mile boundary. These 40 subwatersheds represent 804,557 acres (Figure 5). *There are 748 miles of streams, 243 miles of rivers, 50 miles of the Mississippi River, and 3,997 lakes and ponds.* 

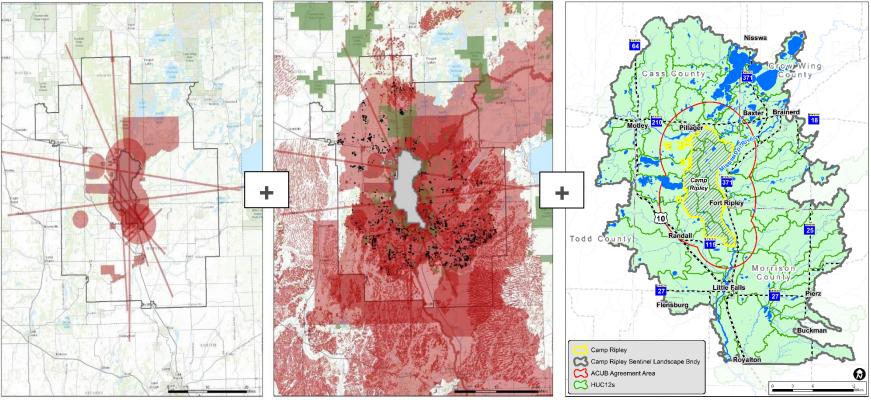


Figure 3: MNARNG agency priorities.

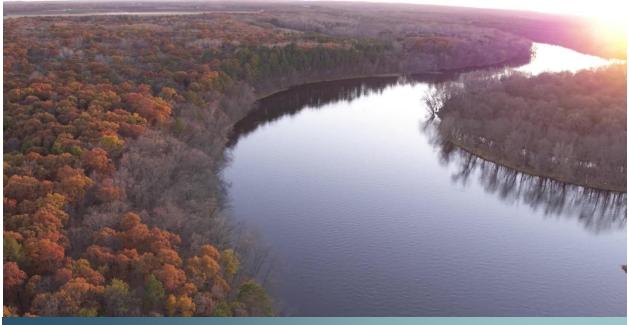
Figure 4: Consolidated partner priorities.

Figure 5: Subwatersheds (HUC12).



To achieve consensus developing the CRSL Program goals, all partner organizations shared their specific goals within the CRSL boundary that are compatible with Camp Ripley's military training mission. DNR's multi-divisional priorities, BWSR watersheds and local county water plan priorities, MDA nutrient reduction and soil health goals, USFWS habitat restoration and protection priorities, National Park Service (NPS) cultural and recreational goals and NRCS resource protection goals led to a multi-agency commitment to prioritize resources that advance shared goals within the CRSL. Priorities and metrics were developed for protection (fee title/easement acquisition) and land production (nutrient reduction via practices, program enrollment, restoration, and enhancement).

The priorities of the agencies and organizations described above validate the diversity of the landscape, which sits at a convergence of several high-quality water features, including two major continental ecological transitions zones and thousands of acres of public and private conservation lands that could be connected by conservation corridors. This landscape is also one of Minnesota's most important source water protection areas for drinking water. This provides an excellent opportunity to protect, maintain, and restore natural and cultural resources within the CRSL boundary, providing multiple benefits for military, ecological, social, and economic interests achieved through coordinated conservation efforts. Watersheds are not confined to political boundaries, thus collaborative efforts across this landscape are critical to protect, maintain, and restore these lands resulting in cleaner water, less erosion, better fish and wildlife habitat and more recreational opportunities.



Mississippi River



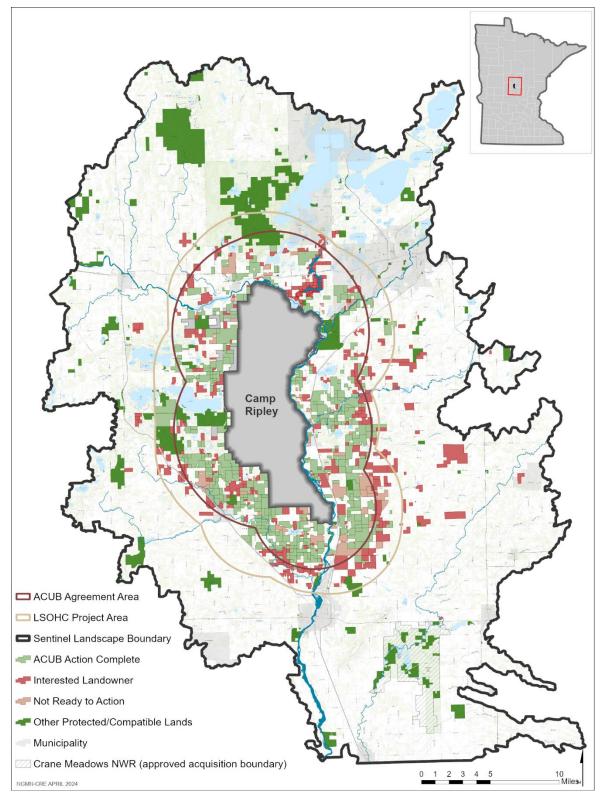


Figure 6: CRSL boundary with highlighted ACUB, LSOHC, and CRSL priorities, and individual parcel status as of 2024. The individual parcel status is tracked as landowners enroll in land protection programs or are contacted for future enrollment.



#### Purpose

The purpose of the CRSL Program is to identify and develop programs that provide land protection, restoration, cultural resource, and climate resilience strategies that benefit the military mission of Camp Ripley, working lands and local communities within the landscape. Improved coordination and collaboration across different resource priorities within a Sentinel Landscape provides an opportunity for participating agencies and organizations to better target their collective resources and possibly develop new technical and financial assistance options that are specifically tailored to local needs.

### **Coordination with Other Conservation Efforts**

The following data and plan inputs used to develop the CRSL Program include resource assessment, partner program priorities assessment, internal and external opportunities, and program sustainability:

- Anoka Sand Plain Partnership 10 Year Strategic Plan
- Arden Hills Army Training Site
- BWSR: Comprehensive Watershed Management Plans (Appendix G)
- BWSR: Landscape Stewardship Plans
- CRSL Strategic Plan
- CRSL Climate Resilience Analysis and Strategic Plan Amendments (NRRI 2023)
- CRTC INRMP
- Camp Ripley training noise analysis map and flight routes
- Crane Meadows National Wildlife Refuge: Comprehensive Conservation Plan
- DNR Forest Inventory Resource Assessment Plot Based Inventory
- DNR State Wildlife Action Plan: Brainerd Lakes Conservation Focus Area
- DNR Parks and Trails Legacy Plan
- Existing land cover data, forestry and agricultural production data
- Local land use plans and local county water plans
- Many Layers to the Land: A Cultural and Environmental Geodatabase Build for the CRSL (2022)
- Minnesota Biological Survey and Natural Heritage Information System database
- Minnesota Nitrogen Fertilizer Management Plan 2015
- MPCA: Minnesota Nutrient Reduction Strategy 2022
- MPCA: Watershed Restoration and Protection Plans
- Minnesota Statewide Conservation and Preservation Plan (2008)
- MHB Comprehensive Plan
- Recreation Map (Camp Ripley Veterans State Trail (CRVST), Paul Bunyan State Trail (PBST), Soo Line trail, Mississippi River Traill (MRT), DNR water trail, Crow Wing and Lindbergh State Parks, Wildlife Management Area's (WMA), NPS and Crane Meadows National Wildlife Refuge)
- TNC: Multiple Benefits for People and Nature
- TNC: Resilient and Connected Network 2021
- USFS data
- USFS: Forests, Water and People analysis (2009)
- USFWS R3 Partners for Fish and Wildlife Program Strategic Plan 2022-2026



### Resilience

In 2019, TNC released its Resilient and Connected Network report and resilient corridors data set for the lower 48 states in the U.S. This data was used to develop a REPI Challenge proposal to protect resilient lands (Figure 10). Resilient lands are a priority for implementing the three strategies in the CRSL. The Natural Resources Research Institute (NRRI) CRSL Climate Resiliency Analysis and Strategic Plan Amendments technical report includes detailed maps for enhancing climate resilience and at-risk species habitat.

# **Cultural Resources**

In 2020, Sylvan Township was awarded the CRSL Comprehensive Literature Assessment grant from the Minnesota Historical and Cultural Heritage Grants program. The purpose of this grant was to fund a comprehensive literature review of cultural and environmental resources within the CRSL, with an ultimate product of storing all this information in a Geographic Information Systems (GIS) geodatabase for





management use by the CRSL Program. This work was completed in 2022. Tribal offices were contacted for input including Bois Fort, Fond du Lac, Lower Sioux, Grand Portage, Leech Lake, Mille Lacs, Prairie Island, Red Lake, Shakopee, White Earth, and Upper Sioux. Cultural resources identified included archaeological sites, historical structures, historic districts, tribally informed potential traditional cultural property, and unrecorded burial sites.

Culturally important lands are a priority for implementing the three strategies in the CRSL and can be used as prioritization criteria for scoring parcels for protection.

# **Recreation and Education**

The benefit of all the protected and public land in the CRSL provides for excellent recreational opportunities, including two state parks, a state forest, a National Wildlife Refuge, the Mississippi River State Water Trail, and numerous other trails. In addition, the City of Baxter and Sylvan have protected lands for the public. A map of recreational opportunities can be found in Appendix G.

In addition, with strong, bipartisan support, the Minnesota State Legislature provided \$32 million for the design and construction of a new military and veterans museum at Camp Ripley, including an environmental learning center. This represents a considerable expansion of and increased access to the museum, which has been on-post for nearly 50 years. Construction will begin the spring of 2024 with construction expected to be completed by Veterans Day of the following year. The grand opening is planned for 2026.



### **Source Water Protection**

The CRSL contains aquifers that are highly vulnerable to pollution from the land's surface, in addition to vulnerable Drinking Water Supply Management (DWSM) areas (Appendix I, Figure I.3). Land protection and management protect drinking water in the CRSL as well as downstream communities. The MDA tracks nitrates in private wells through the township testing program. Communities along the Mississippi River corridor, including St. Cloud, Minneapolis, and St. Paul are dependent on the quality of the water maintained in the Mississippi Headwaters for their drinking water. In all, the Mississippi Headwaters provides drinking water for 2.5 million Minnesotans – more than 44% of the state's residents (TNC).

In addition, numerous cities downstream from Minnesota also use the Mississippi River as a drinking water source, from Wisconsin to Louisiana. As a result, the significance of protecting and enhancing the Mississippi River corridor impacts the drinking water of more than 20 million people in 50 cities (American Rivers).

### **Conservation Focus Areas**

In 2019 DNR Ecological and Water Resources Division staff approached a regional collaboration of resource professionals called the North Central Conservation Roundtable, convened by TNC. Many NGO's, local, state, federal and tribal partners participate in this group covering the Upper Mississippi Headwaters geography. Camp Ripley environmental staff and CRSL Coordinator also participate in this group. The task was to consider development of a Conservation Focus Area (CFA) for the Brainerd Lakes area that would be amended and included in the State Wildlife Action Plan (SWAP). This was completed to include the CRSL Program area in addition to the Brainerd Lakes and Mississippi River corridor (Appendix I, Figure I.1) The CRSL Program included the SWAP and CFA as information to direct private land program opportunities and overlay USFWS Partners for Fish and Wildlife program goals.

#### **US Fish and Wildlife Programs**

The Crane Meadows National Wildlife Refuge sits within the CRSL boundary and has the option of acquiring additional units for the National Wildlife Refuge System (Appendix I, Figure I.2). In the future, this could include CRSL boundary expansion. The USFWS Partners for Fish & Wildlife program has strong connections with over 100 private landowners in the area, with whom they are in the process of implementing numerous water/wetland-focused projects. USFWS program area data and models are used extensively by partners to prioritize and target the conservation and management of lands and waters for migratory birds and breeding waterfowl. The USFWS will work along with plan partners to achieve their shared goals and strategies.



# Section 2. CRSL Program Development

The primary purpose of the CRSL Strategic Plan is to communicate the direction and strategies of partner organizations under one philosophy: *"Where Missions Meet"*. Each organization has their own mission statement and enabling programs. These missions will be accomplished by using a holistic approach toward managing a landscape where all parties have an opportunity to provide input in management decisions.

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Each agency will have the opportunity to target their priorities, programs, and initiatives in one or more of the three strategy areas:



Within the three strategies, actions include acres protected or enrolled in programs, best management practices (BMPs), restoration acres, and nutrient reduction. These metrics are tracked to achieve a goal of 60% of the land protected in the ACUB Agreement Area and 45% conservation care (protection or management) in the CRSL boundary. The next page shows the continuum of practices in the Sentinel Landscape Strategy. Outreach and Coordination strategies are lower cost and less permanent while Land Protection strategies have higher costs but are also more permanent. This variety of programs gives the landowner a choice of what will work best on their property.

The goals, objectives and projects defined in the CRSL Strategic Plan will be accomplished by following the guidelines in the plan; all management actions will be monitored by a team approach through the CRSL coordinator and Camp Ripley environmental supervisor; program management will be adapted according to metric results annually. For example, event attendees, signed landowner interest forms, and Forest Stewardship Plans can be used track outreach efforts and the effectiveness of that outreach. The Scenario Application Manager/Hydrological Simulation Program Fortran (SAM/HSPF) was used to help determine different combinations of agricultural BMPs, land protection and restoration strategies needed to achieve nitrogen, phosphorus, and sediment reductions as secondary benefits.





# Sentinel Landscape Strategies

				CRSL	Strategy			
4	Outreach &	Coordination	<u>پې د د د د د د د د د د د د د د د د د د د</u>	and Managemen	t	*	ACUB Strategy Land Protection	
•	#1 eneral Advice & Assistance Events Factsheets Posters Mailers Workshops Website Social Media unding: Readiness & Environmental Protection Integration One Watershed One Plan	<ul> <li>#2</li> <li>Specific Advice &amp; Assistance</li> <li>Site visits</li> <li>Project Plans</li> <li>Technical Assistance</li> <li>Environmental Protection Integration</li> <li>One Watershed One Plan</li> </ul>	<ul> <li>#3</li> <li>Grants/ Cost-Share Projects</li> <li>Clean Water Fund</li> <li>Environmental Quality Incentives Program</li> <li>Conservation Stewardship Program</li> <li>Regional Conservation Partnership Program</li> </ul>	#4 Land Use Controls • Storm water • Buffers • Best Management Practices • County zoning • Mississippi Headwaters Board	#5 Incentive Programs to Enroll Land • Sustainable Forest Incentive Act • Conservation Reserve Program • Coops • Forest Banks • Carbon Programs • Environment and Natural Resources Trust Fund	<ul> <li>#6</li> <li>Donated Land &amp; Easements</li> <li>Non- governmental Organizations</li> <li>Public</li> <li>Agencies</li> </ul>	#7 Purchased Easements • Lessard Sams Outdoor Heritage Fund • Army Compatible Use Buffer • Reinvest in Minnesota • Forests for the Future • Non-governmental Organizations • Agricultural Conservation Easement Program	<b>#8</b> Fee Title Acquisition
\$					Fund		Zussinent rogram	\$\$\$

Lower Costs Less Permanent Higher Costs More Permanent



Section 3 of this plan outlines the implementation strategy and represents a distinct step in the planning process, marking the end of planning and the beginning of action. For implementation to be successful it is imperative that the CRSL Committee address the following activities with goals and objectives:

- Staffing
- Education and outreach
- Improve/manage
- Acquire
- Funding
- Provisions for updating/revising the CRSL Strategic Plan

# Coordination

Successful implementation requires timely and purposeful coordination. Coordination, before implementation, is one of the most overlooked and underestimated cost-saving management efforts in resource management. This section provides guidance on a range of coordinative and administrative topics that need close consideration by partners working in the CRSL.

One of the primary goals of the CRSL is to provide seamless service to a far greater number of private landowners while at the same time coordinating efforts with public land managers over large geographic areas to create a more sustainable landscape. To attain this goal, increased levels of coordination by multiple state and federal agencies, local units of governments (LUG), and organizations working within a landscape are needed.

The narrative in this section provides guidance on four areas of coordination that resource managers and their landscape partners should address before the implementation of the CRSL Strategic plan:

- Partners and partnerships
- Implementation programs and priorities
- Training and funding
- Engaging communities and landowners
- Effectiveness monitoring of program delivery

New ways of thinking and working together will be required to move from a paradigm of preparing and implementing single forest stewardship plans and projects for individual landowners to a landscape approach involving hundreds, perhaps thousands, of landowners and their communities.



### **Partnership Structure and Roles**

There is no one entity solely responsible for the management of forest and water resources within the CRSL. Rather, there are numerous agencies and organizations with varying and sometimes overlapping roles and authorities. Identifying partners and clarifying roles is important to the successful implementation of this plan especially since there is no one governing entity.

Partner agencies listed below have been involved in the development of this plan (Figure 7, Appendix A). Agencies and organizations that have not been involved in the planning process are welcomed and encouraged to get involved in implementing this plan.







Partners are encouraged to be active through the coordination, implementation, and monitoring phases of this plan. They should all work to complement each other's efforts to increase the successful implementation of this plan. The goals and objectives outlined in this plan are attainable but will be accomplished only if the people and the organizations that work within the CRSL can develop the collective will to do what is necessary to make the plan's goals a reality.

The Camp Ripley environmental office has assumed the primary responsibility for ACUB and CRSL within the MNARNG. Currently the DMA does not have funding to hire staff dedicated to the coordination and implementation of the ACUB or CRSL Programs. Since federal designation as a Sentinel Landscape in 2016, partial funding support from REPI for convening and coordinating the CRSL Program has been awarded to TNC through cooperative agreement agents.

There are four different teams that make up the partnership structure of the CRSL. Each team is illustrated below.

#### **CRSL Leadership Team**



**Team Purpose:** Communication within Camp Ripley/DMA/MNARNG/REPI, coordinate public relations on post and via media, oversee contracts and cooperative agreement relationships, facilities coordination for CRSL related events, GIS/IT support.



**Team Members:** CRSL Coordinator, DMA, Morrison SWCD.



**Meeting Frequency:** Monthly

# CRSL Protection Team (fee title/easement)



**Team Purpose:** To coordinate fee and easement acquisition, fund sourcing development, public engagement and outreach, reporting to funders.



**Team Members:** BWSR, CRSL Coordinator, DMA, DNR, local government, NGO, NRCS, and SWCD.



**Meeting Frequency:** Quarterly





#### CRSL Practices, Restoration, and Program Enrollment Team



**Team Purpose:** To coordinate grant and program funding, working partnerships for restoration, landowner outreach, and reporting to funders.



**Team Members:** BWSR, DMA, DNR, MDA, NPS, NRCS, USFWS, and NGO partners with restoration, program enrollment or cost-share practices goals within the CRSL boundary.



**Meeting Frequency:** Quarterly

#### **CRSL Coordinating Committee**



**Team Purpose:** Develop program policy and priorities, act as a communication liaison to representative agencies, internally advance CRSL mission and objectives, network across division and agency constructs to advance CRSL mission and objectives and share new and emerging programs that are relevant to the CRSL program.



**Team Members:** BWSR, DMA, DNR, MDA, MPCA, NPS, NRCS, USFS, USFWS, CRSL Leadership Team, CRSL Coordinator, local government leadership, NGO leadership, Camp Ripley Garrison Commander.



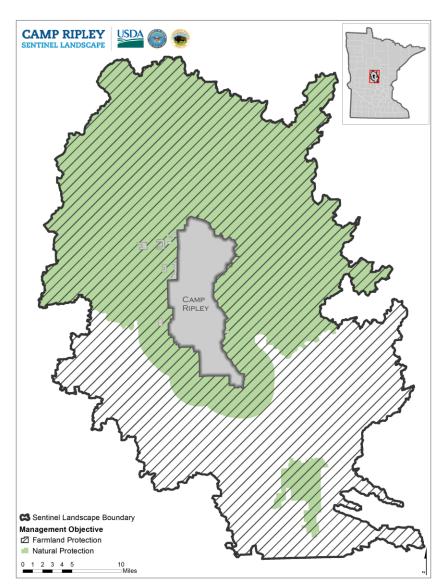
**Meeting Frequency:** Quarterly



# **Section 3. Strategies and Objectives**

Figure 8 spatially illustrates where the following three strategies would be focused and implemented. An important nuance of the map is that federal funds awarded to the ACUB Program may only be used within the approved ACUB Agreement Area, however those funds can be used to leverage other state and federal funds throughout the CRSL Program area. The USDA's NRCS Agricultural Conservation Easement Program (ACEP) includes a category of easement called Agricultural Land Easements (ALE) that intends to keep farms permanently protected as production working lands. The map representation shows that future CRSL Program implementation could deliver this program across the CRSL landscape.

The following pages provide goals and objectives grouped





by the type of strategy to achieve desired future conditions. As the plan is implemented and partnerships for action formed, additional strategies and actions may be identified, and the plan will be modified. There are three primary strategies within the CRSL, as shown below.





# **Strategy 1:** ACUB Land Protection

Measurable Goal: Protect 79,291 acres (60%) within the ACUB Agreement Area to meet the military mission of Camp Ripley and preserve natural resources (Figure 9).

#### Description

The main goal of the ACUB Program is to protect lands for the military mission of Camp Ripley while also protecting and enhancing working lands, natural resources, and habitat. Keeping protective land covers such as forests and wetlands provides secondary benefits including military installation resilience to changing environmental conditions or extreme weather events, habitat for at risk species, water storage, carbon storage, and water quality. Land protection (protecting forests from conversion to other land uses) can be accomplished with tax incentives, conservation easements, or land acquisition.

#### Outcomes



Increased landscape resilience to climate change.

Camp Ripley Installation Resilience is enhanced.



 Natural Resources and at-risk species and natural habitat are protected (G1/G2 & S1/S2 Native Plant Communities\*, oldgrowth forests).



Agricultural land is protected.

Primary Metrics



Acres protected.

St

Secondary Metrics

Stacked benefits below.

# **Stacking Additional Benefits**

Work toward this goal also stores water in the soil, enhances habitat for at risk species, and enhances climate resiliency. Protected water storage and carbon storage reflect the current benefits of the forested and protected lands. This quantity of water and carbon storage would be lost if these forests weren't protected and were instead converted to a different land use. For details see Appendices F and H. These secondary benefits will be integrated into scoring process for targeting implementation.

At-Risk Species (Appendix F)	Habitat Benefits	Climate Resiliency Benefits (Appendix H)
State T&E** Species: 7 State Special Concern: 28	Habitat = 79,291 acres	Protected Water Storage = 11,600 - 14,000 acre-feet
Federal T&E* Species: 3		Protected Carbon Storage = 6,006,690 metric tons
Species in Greatest Conservation Need: 101		Resilient Land = 80,967 acres

\*G1/G2 indicate species a very high and high risk of extinction. S1/S2 indicate a very high or high risk of extirpation in the jurisdiction. For more information, visit: <u>https://explorer.natureserve.org/AboutTheData/DataTypes/ConservationStatusCategories</u>

\*\*T&E = Threatened & Endangered





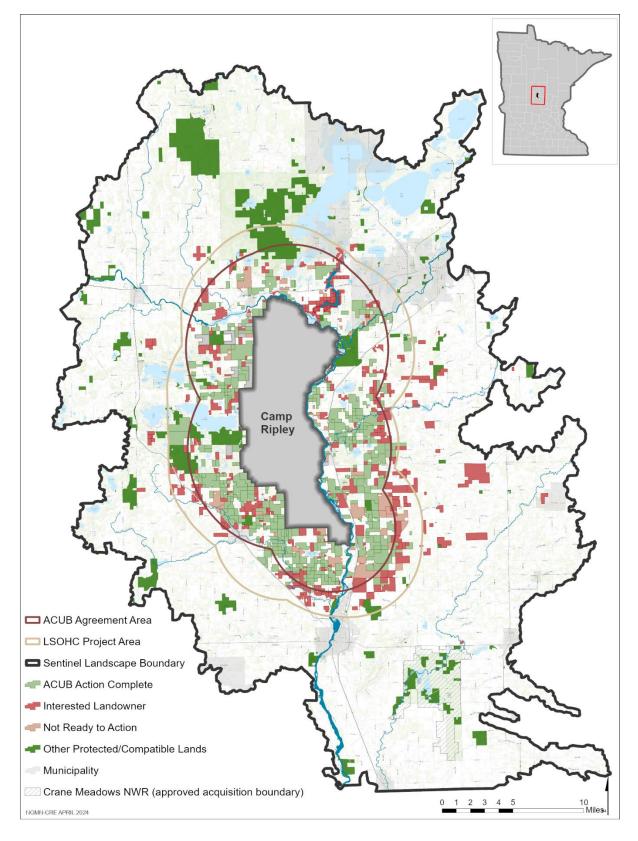


Figure 9: ACUB Program actions and priorities.



# Actions

Objectives/Actions	Lead and Supporting Entities
Facilitate enrollment of 19,823 acres (3,000 acres a year) into fee title and conservation easement acquisition within the ACUB Agreement Area.	DMA, BWSR, NGO, NRCS, MHB, SWCD
Maintain a criterion ranking system for prioritization of lands within the ACUB Agreement Area.	DMA, BWSR, MHB, SWCD
Support the maintenance and enhancement of public and private forest lands.	USFS, DNR, BWSR, SWCD, NRCS
Protect forested corridors identified in the LSP.	USFS, DNR, BWSR, SWCD, NRCS
Support the development of trail and water trail networks: CRVST, Cuyuna Lakes State Trail, National Water Trail, MRT (See Appendix I, Figure I.2).	CRSL, NPS, CRVST, Baxter, Brainerd, counties, townships
Support the acquisition of land to be used for public recreation (WMAs, Scientific & Natural Areas (SNA), Parks etc.) (See Appendix I, Figure I.2).	DNR, CRSL, NPS, NGO, LUG, MHB, counties
Focus protection on species of greatest need and areas of highest terrestrial and aquatic resilience (Figure 10).	DMA, BWSR, NGO, NRCS, MHB, SWCD
Prioritize protection of cultural resources identified in the Cultural and Environmental Geodatabase Build for the CRSL.	DMA, BWSR, NGO, NRCS, MHB, SWCD, MHS
Protect and enhance DWSM Areas and lands that are sensitive to groundwater pollution (Appendix I, Figure I.3).	DMA, BWSR, Minnesota Department of Health (MDH), SWCD
Implement climate resilient ecological enhancement and restoration on public lands.	GHG, TNC, USFWS



# Strategy 2: CRSL Protection & Management

Measurable Goal: Manage/Improve/Protect 362,051 acres (45%) in the CRSL (Figure 10).

#### Description



Within the CRSL, there are working lands for agriculture and forestry that provide many important benefits including food production, local economy support, habitat, and maintaining the rural character of Minnesota. There are also forested lands that provide habitat for at risk species, and protection for resilient corridors and groundwater. The CRSL aims to "keep farms farms and forests forests", and work with partner agencies to implement BMPs in working lands and permanent protection of forested and sensitive lands to benefit surface water, groundwater, and habitat quality (S1/S2/G1/G2\* Native Plant Communities and old-growth forests).

#### Outcomes



Increased landscape resilience to climate change.



Camp Ripley Installation Resilience is enhanced.

Partnerships with agencies to foster implementation of Agricultural BMPs.

Primary Metrics



Acres of permanent protection and/or best management practices.



Partnerships with agencies to foster implementation of forest management plans, SFIA, and 2c tax incentive programs.

Partnerships with agencies to foster implementation of grazing management plans to support working grasslands.

Secondary Metrics



Stacked benefits below.

# **Stacking Additional Benefits**

Work toward this goal also makes progress towards reductions in phosphorus, sediment, and nitrogen to surface and groundwater; stores water in the soil; sequesters carbon, enhances habitat for at-risk species, and enhances climate resiliency. For calculation details see Appendix H. These secondary benefits will be integrated into scoring process for targeting implementation.

Surface Water
Quality Benefits
(Appendix H)
osphorus = 5,058 lbs/yr
rogen = 92,820 lbs/yr

\*G1/G2, S1/S2: see next page.

Habitat Benefits & At Risk Species (Appendix F) Habitat = 227,697 acres

State T&E\*\* Species: 58

Federal T&E\*\* Species: 3

\*\*T&E: see next page.

Climate Resiliency Benefits (Appendix H)

Protected Water Storage = 33,000 - 40,000 acre-feet

Protected Carbon Storage = 17,250,000 metric tons

Carbon Sequestration =

11,000 metric tons

Resilient Land\*\*\* = 231,546 acres

\*\*\*Resilient Land: Network of connected biodiverse lands (TNC). See Figure 10 on page 28.





# Summary of Additional Benefits and Real-World Equivalents

Surface	<b>Phosphorus</b> : the pounds of phosphorus reduced by implementing all plan goals.	5,058 pounds/year; equivalent to:		
Water Quality Benefits (Appendix H)	<b>Sediment</b> : the tons of phosphorus reduced by implementing all plan goals.	671 tons/year; equivalent to: 67 dump trucks of sediment		
(Appendix n)	Nitrogen: the pounds of nitrogen	92,820 lbs/year; equivalent to:		
	reduced by implementing all plan goals.	23,205 bags of nitrogen fertilizer		
	<b>Storage</b> : the amount of new water storage on the landscape or in the soil by implementing all plan goals.	40,000 acre-feet; equivalent to: 40,000 football fields covered in 1 foot of water		
Climate Resiliency Benefits (Appendix H)	<b>Protected Carbon Storage</b> : the amount of carbon currently stored in the forest that would be protected by implementing plan goals.	17,250,000 metric tons; equivalent to: Removing 15,053,615 gas vehicles driven for one year		
	<b>Carbon Sequestration</b> : the amount of new carbon sequestered by implementing agricultural best management practices.	11,000 tons; equivalent to: Removing 9,599 gas vehicles driven for one year		

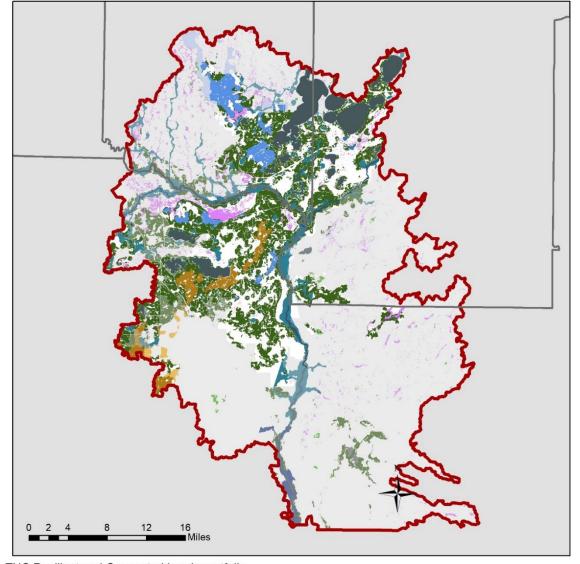
# **Species Conservation Status Ranks Definitions**

Rank	Definition	
G1 Critically Imperiled – At very high risk of extinction or collapse due to very range, very few populations or occurrences, very steep declines, very severy or other factors.		
<b>G2</b> Imperiled – At high risk of extinction or collapse due to restricted range, few populations or occurrences, steep declines, severe threats, or other factors.		
<b>S1</b> Critically Imperiled – At very high risk of extirpation in the jurisdiction durestricted range, very few populations or occurrences, very steep decline threats, or other factors.		
<b>S2</b> Imperiled– At high risk of extirpation in the jurisdiction due to restricted range, to populations or occurrences, steep declines, severe threats, or other factors.		
<b>Endangered</b> A species is in danger of extinction throughout all or a significant portion of its ran		
Threatened	A species is likely to become endangered within the foreseeable future	
S1restricted range, very few populations or occurrences, very steep declines, stripterS2Imperiled – At high risk of extirpation in the jurisdiction due to restricted rand populations or occurrences, steep declines, severe threats, or other factors.EndangeredA species is in danger of extinction throughout all or a significant portion of		

e: <u>https://explorer.natureserve.org/AboutTheData/DataTypes/ConservationStatusCategories</u>



Actions will be targeted to the most resilient areas shown in Figure 10. The Resilient and Connected Network (RCN) is a network of resilient, connected, and biodiverse lands. This is different than the climate resiliency benefits on the previous page. To learn more or use the online tool, visit: https://www.maps.tnc.org/resilientland/#/explore.



TNC Resilient and Connected Lands portfolio Areas identified as priorities during the 2015 Wildlife Action Network update highlighted (brighter color).

#### **Resilient and Connected Lands (terrestrial)**

Climate Flow Zone

Climate Corridor

Lakes & rivers

#### Great Plains Division Draft

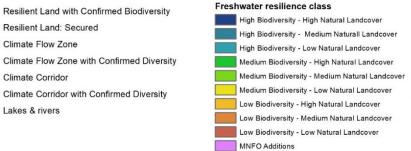




Figure 10: Resilient and connected network in the CRSL (TNC).



# Actions

Objectives/Actions	Lead and Supporting Entities
Achieve protection or management on 45% of the land within the Sentinel Landscape boundary (add 68,953 acres).	SWCD, NRCS, MDA, DNR, USFWS, BWSR, MHB, ENTRF, LCCMR
Achieve permanent protection on 60% of the land within the 5 mile LSOHC buffer (add 28,370 acres).	SWCD, BWSR
Minnesota's Farmland Protection Toolbox: Work with local counties toward relevant implementation.	MDA, SWCD, NRCS
Minnesota Agricultural Water Quality Certification Program (MAWQCP): Maximize certification of agricultural land within the CRSL.	MAWQCP, SWCD
Support programs that target private landowners in the development of forest management plans and foster private enrollment in SFIA and 2c tax incentive programs.	DNR, SWCD, MFRC, NRCS
CRSL partnership support working grasslands where applicable to develop grazing management plans in areas identified for highest water quality benefit (ground and surface water).	MDA, SWCD, MPCA, MDH, BWSR, NRCS
Focus programs on species of greatest need and areas of highest terrestrial and aquatic resilience, including native prairies, old-growth forests, and rare native plant communities (Figure 10).	SWCD, NRCS, MDA, DNR, USFWS
Prioritize protection of cultural resources identified in the Cultural and Environmental Geodatabase Build for the CRSL.	DMA, BWSR, NGO, NRCS, MHB, SWCD
Protect and enhance DWSM Areas and lands that are sensitive to groundwater pollution (Appendix I, Figure 1.3).	DMA, BWSR, MDH, SWCD
Implement climate resilient ecological enhancement and restoration on public lands.	GHG, TNC, USFWS
Determine how many acres of farmland are protected and develop a goal for future protection.	MDA, TNC, SWCD



# Strategy 3: Outreach & Coordination

### Description

Coordination between CRSL partners and landowner outreach are essential to implementing Strategies 1 and 2, which are targeted to privately owned lands. CRSL partners coordinate outreach about the program options available for landowners to choose from. In addition, funding from numerous sources, including local, state, and federal agencies is leveraged and matched to achieve Strategies 1 and 2.

#### **Overall Outcomes**



Ensure adequate staffing and resources to coordinate CRSL partner objectives.



Develop programmatic prioritization to implement federal, state, and local priority implementation strategies in the CRSL.



funding.

Advance knowledge of natural resource

Leverage Sentinel Landscape partnership



Advance knowledge of natural resource concerns and management programs available to private landowners.





# Actions

Objectives/Actions	Lead/Supporting Entities
Maintain cooperative agreements with NGB and ACUB partners.	DMA, BWSR, The Conservation Fund (TCF), Morrison SWCD
Maintain administrative ACUB requirements and continue to seek and execute funding for implementation.	DMA, BWSR, Morrison SWCD, TCF
Identify funding and mechanisms to continue staff capacity to implement CRSL coordinator responsibilities.	DMA, TNC
Encourage and develop local and state policies and programs to leverage the Sentinel Landscape partnership.	DMA, TNC
Coordinate and communicate CRSL Programs up into the state agencies.	DMA, SWCDs, TNC
Work with partners and stakeholders to link citizens and businesses in the area to support organizations actively working to protect, restore and improve forest and water resources in the watershed.	MAWQCP, CRSL, BWSR, SWCD, DNR, MPCA, NRCS, USFWS, TNC, MLT
Review, track, and develop funding proposals that leverage Federal-Federal and Federal-State matching dollars for program implementation.	DMA, TNC, SWCD, BWSR, TCF, DNR, MAWQCP
Proactively educate landowners through coordinated partner outreach.	CRSL, MAWQCP, NRCS, SWCD, DNR, MPCA, MHBd
Implement public outreach programs to build community stakeholder involvement (tours, events).	Great River Greening (GRG)



# Alignment with the Camp Ripley Training Center

Many of the CRSL Strategies align with Camp Ripley Training Center (CRTC) program areas and strategies. The table below illustrates these connections.

CRTC Program Area	······································	
Land Use Management		
Forestry	Forestry10. Implement forestry management practices.11. Implement BMPs for species that are listed as threatened or endangered	
Grasslands	Grasslands 13. Restore and manage the grassland communities.	
Education, Outreach, & Recreation20. Provide educational opportunities about natural resources at Camp Ripley. 21. Identify and develop recreation opportunities for the public.		Sec O&C
Wildlife	<ol> <li>Educate users.</li> <li>Protect populations and habitats of special concern and other rare nongame wildlife species.</li> </ol>	w O&C



# Section 4. Operationalizing the Plan

### **Organizing for Effective Implementation**

Implementing a proactive outreach strategy (both internal and external) to expand the current understanding about the ACUB and CRSL Programs will be critical to the success of the CRSL Strategic Plan. Strategies will be developed with clear, consistent, and compelling messages and materials about the CRSL and how it can help maintain the rural character of the area, protect drinking water, and provide economic, environmental, and societal benefits to local people, their communities, and other Minnesota residents. The desired outcomes are to help more agricultural producers and forest landowners install conservation practices on their land and accelerate the protection and restoration of important wildlife habitat and the conservation of clean drinking water and other natural resources including the Mississippi River.

#### Provisions for Updating/Revising the CRSL Strategic Plan

The MNARNG will maintain administration of the CRSL Strategic Plan development, implementation, and updating through the state CRSL Coordinating Committee and continue to solicit participation from federal, state, local, non-governmental partners, and private landowners in updating the Strategic Plan for the CRSL. Individual goals, objectives, and policies will be reviewed bi-annually. Major revisions will be formally reviewed every five years.





# **Appendix A. Partners and Collaborators**

- U.S. Department of Agriculture:
  - o Natural Resources
  - Conservation Service
  - o U.S. Forest Service
- U.S. Department of Interior:
  - o U.S. Fish and Wildlife Service
  - National Park Service
- U.S. Department of Defense: REPI
- National Guard Bureau
  - ACUB
- Minnesota Department of Military Affairs
  - Camp Ripley
- Minnesota Department of Natural Resources
- Minnesota Pollution Control Agency

- Minnesota Department of Agriculture
- Minnesota Board of Water and Soil Resources
- Morrison Soil and Water Conservation District
- Crow Wing Soil and Water Conservation District
- Cass County
- Morrison County
- Crow Wing County
- City of Baxter
- Mississippi Headwaters Board
- The Nature Conservancy
- The Conservation Fund
- Great River Greening





# Appendix B. CRSL Partner Integration Table

Partner CRSL Integration Table 2024 - 2034				
Strategy	Partner	Role	Fund Sources	
Protection	DNR	Forest Legacy, Minnesota Forests for the Future (MFF), F&W, Aquatic Management Area (AMA), SNA, Parks & Trails, EWR	Fed. Forest Legacy, OHF, CWF	
	BWSR	RIM easements, CWF practices/cost-share	OHF, CWF, bonding	
	NGOs	Transaction capacity and private fund leverage	TNC MN, TPL, TCF, MLT, Headwaters Fund	
	REPI	Federal funding leverage, advocacy, program support	Federal appropriation	
	MNARNG	State funding leverage, advocacy, program support	Federal appropriation	
	MHB	Fee/easement coordination in project area	OHF, SWCDs	
	CRSL Partnership	Convene and coordinate programs and leverage, tracking	REPI Challenge, MNARNG	
	NRCS	NRCS Easements	NRCS	
	USFWS	private land easement program, acquisitions w/in boundary	Land and Water Conservation Fund (LWCF), North American Wetlands Conservation Act (NAWCA)	
Restoration	CRSL	Convene and coordinate programs, fund sourcing	Outdoor Heritage Fund - Conservation Partners Legacy (OHF- CPL), BWSR	
	SWCD	SWCD program targeted to priority minor watersheds in CRSL	Bonding, OHF, capacity dollars	
	DNR	WMA, SNA, Parks, F&W restoration public lands	OHF-CPL, other legacy, bonding	
	USFWS	Federal and private land restoration programs	LWCF, PFW	
	NGOs, TNC, GRG	Legacy fund sourcing, stewardship admin., crew logistics, low intensity burns, high diversity seeding, accelerated migration, biochar	Legacy- OHF/CWF, private funds	
	Camp Ripley	fund sourcing, partner support letters, on post restorations	NA	
	USFS	Public engagement, TA, Forest Legacy advocacy	Forest Legacy	





Partner CRSL Integration Table 2024 - 2034				
Strategy	Partner	Role	Fund Sources	
Nutrient Reduction	NRCS	RCPP support, CSP, EQIP, and TA support	Farm bill RCPP	
	MDA	MAWQCP, Ag BMP loan program, research, partner linkage, best practices	bonding and CWF	
	MPCA	Intensive Watershed Monitoring, Watershed Restoration and Protection Strategy	CWF	
	NRCS	NRCS Farm Bill Programs	NRCS	
	SWCD	SWCD program targeted to priority minor watersheds in CRSL	Capacity, BWSR CWF, NRCS	
Ag/Forestry Practices	NRCS	CSP, EQIP, Healthy Forest Reserve Program (HFRP), forestry TA,	Farm bill RCPP, other	
	DNR	CFM/PFM, public land resto	bonding, OHF	
Program Enrollment	MDA	MN Ag Water Quality Certification	Legacy CWF, bonding	
	DNR/SWCD	SFIA, 2c	state bonding and local levy	
	NRCS	NRCS Farm Bill Programs	NRCS	
	FSA	Conservation Reserve Program (CRP)	Farm bill	
Cultural Resources	CRSL	Convene coordinate, fund sourcing	MNARNG	
	Camp Ripley	Tribal Consultation	MNARNG	
	NPS	Convene coordinate NPS recreation and cultural division leads		
	MN Historical Society	Support grant oversight, fund sourcing, research coordination		
	State Historic Preservation Office (SHPO)	Support grant oversight, fund sourcing, research coordination		
	Local Historical Society	Support grant oversight, fund sourcing, research coordination		
	Tribe representatio n	Support grant oversight, fund sourcing, research coordination	present and ongoing	
	St. Cloud State Univ.	Support grant oversight, fund sourcing, research coordination		





Partner CRSL Integration Table 2024 - 2034				
Strategy	Partner	Role	Fund Sources	
Community Engagement	CRSL	Coordinate, promote events, newsletters, website		
	GRG	Host restoration and enhancement events for public, civic, school, and private groups to build community stakeholder investment		
	All partners	Participate in public events, intra-agency messaging, logos		



## Appendix C. Glossary of Terms and Acronyms

1W1P: One Watershed, One Plan

**ACEP**: Agricultural Conservation Easement Program

ACUB: Army Compatible Use Buffer

ALE: Agricultural Land Easements

AMA: Aquatic Management Area

BMP: Best Management Practice

BWSR: Board of Water and Soil Resources

CFA: Conservation Focus Area

#### **Camp Ripley Installation Resilience:**

The term "military installation resilience" means the capability of a military installation to avoid, prepare for, minimize the effect of, adapt to, and recover from extreme weather events, or from anticipated or unanticipated changes in environmental conditions, that do, or have the potential to, adversely affect the military installation or essential transportation, logistical, or other necessary resources outside of the military installation that are necessary in order to maintain, improve, or rapidly reestablish installation mission assurance and mission-essential functions

#### **Climate Resiliency:**

The capacity of individuals, communities, businesses, buildings, infrastructure or the natural environment to prevent, withstand, respond to, and recover from disruptive events and continue to perform despite persistent stresses imposed by climate change. Both mitigation and adaptation are necessary for long-term resilience.

CRP: Conservation Reserve ProgramCRSL: Camp Ripley Sentinel LandscapeCRTC: Camp Ripley Training Center

**CRVST**: Camp Ripley Veterans State Trail

**CSP**: Conservation Stewardship Program

**CWF**: Clean Water Fund

**DMA**: Department of Military Affairs

**DNR**: Department of Natural Resources

**DWSM**: Drinking Water Supply Management

**ENRTF:** Environment & Natural Resources Trust Fund

**EQIP**: Environmental Quality Incentives Program

**FMO-E**: Facilities Management Office-Environmental

**GIS**: Geographic Information Systems

**GRG**: Great River Greening

HFRP: Healthy Forest Reserve Program

**HSPF**: Hydrological Simulation Program Fortran

HUC: Hydrologic Unit Code

**INRMP**: Integrated Natural Resource Management Plan

**LCCMR**: Legislative-Citizen Commission on Minnesota Resources

**LSOHC**: Lessard-Sams Outdoor Heritage Council

LSP: Land Stewardship Plan

LUG: Local units of government

LWCF: Land and Water Conservation Fund

**MAWQCP**: Minnesota Agricultural Water Quality Certification Program

**MDA**: Minnesota Department of Agriculture

MDH: Minnesota Department of Health





MFF: Minnesota Forests for the Future

**MFRC**: Minnesota Forest Resources Council

MHB: Mississippi Headwaters Board

**MNARNG**: Minnesota Army National Guard

**MPCA**: Minnesota Pollution Control Agency

MRT: Mississippi River Trail

**NAWCA**: North American Wetlands Conservation Act

NGB: National Guard Bureau

NGO: Non-governmental organization

NPS: National Park Service

**NRCS**: Natural Resource Conservation Service

NRRI: Natural Resources Research Institute

**OHF**: Outdoor Heritage Fund

**OHF-CPL**: Outdoor Heritage Fund – Conservation Partners Legacy

PBST: Paul Bunyan State Trail

**PFM**: Private Forest Management

**PFW:** Partners for Fish and Wildlife Program

**RCPP**: Regional Conservation Protection Partnership

**REPI**: Readiness and Environmental Protection Integration

**RIM**: Reinvest in Minnesota

**SAM/HSPF**: Scenario Application Manager/Hydrological Simulation Program Fortran

SFIA: Sustainable Forest Initiative Act

SHPO: State Historic Preservation Office

SNA: Scientific & Natural Area

SWAP: State Wildlife Action Plan

**SWCD**: Soil and Water Conservation District

TCF: The Conservation Fund

**TNC**: The Nature Conservancy

**USDA**: United States Department of Agriculture

**USDOI**: United States Department of the Interior

**USFWS**: United States Fish and Wildlife Service

**USFS**: United States Forest Service

**WMA**: Wildlife management area



## **Appendix D. References**

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USFWS Partners for Fish and Wildlife Program. <u>https://www.fws.gov/program/partners-fish-and-wildlife</u>



## **Appendix E. Partner Contacts**

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# **Appendix F. At Risk Species**

END= Endangered THR = Threatened SPC= Species of Concern P=Present

Table F-1. At Risk species in the Camp Ripley Installation.

			State	Federal	CRTC
Таха	Scientific name	Common name	status	status	record
Jumping spiders	Paradamoetas fontanus	a species of jumping spider	SPC		Р
Caddisflies	Anabolia ozburni	a species of northern caddisfly	SPC		Р
Birds	Pelecanus erythrorhynchos	American White Pelican	SPC		Р
Mammals	Eptesicus fuscus	Big Brown Bat	SPC		Р
Mussels	Ligumia recta	Black Sandshell	SPC		Р
Reptiles	Emydoidea blandingii	Blanding's Turtle	THR		Р
Birds	Setophaga cerulea	Cerulean Warbler	SPC		Р
Birds	Calcarius ornatus	Chestnut-collared Longspur	END		Р
Mussels	Lasmigona compressa	Creek Heelsplitter	SPC		Р
Mussels	Lasmigona costata	Fluted-shell	THR		Р
Birds	Sterna forsteri	Forster's Tern	SPC		Р
Tiger Beetles	Cicindela lepida	Ghost Tiger Beetle	THR		Р
Mammals	Canis lupus	Gray Wolf	DELISTED	THR	Р
Birds	Setophaga citrina	Hooded Warbler	SPC		Р
Birds	Podiceps auritus	Horned Grebe	END		Р
Birds	Chondestes grammacus	Lark Sparrow	SPC		Р
Butterflies & moths	Hesperia leonardus	Leonard's Skipper	SPC		Р
Mammals	Myotis lucifugus	Little Brown Myotis	SPC		Р
Vascular Plants	Carex muskingumensis	Muskingum sedge	SPC		Р
Birds	Ammodramus nelsoni	Nelson's Sparrow	SPC		Р
Tiger Beetles	Cicindela patruela patruela	Northern Barrens Tiger Beetle	SPC		Р
Birds	Accipiter atricapillus	Northern Goshawk	SPC		Р
Mammals	Myotis septentrionalis	Northern long-eared bat	SPC	END	Р
Birds	Falco peregrinus	Peregrine Falcon	SPC		Р
Mammals	Microtus ochrogaster	Prairie Vole	SPC		Р
Birds	Progne subis	Purple Martin	SPC		Р
Birds	Buteo lineatus	Red-shouldered Hawk	SPC		Р
Mammals	Perimyotis subflavus	Tri-colored bat	SPC		Р
Birds	Cygnus buccinator	Trumpeter Swan	SPC		Р
Birds	Phalaropus tricolor	Wilson's Phalarope	THR		Р
Birds	Coturnicops noveboracensis	Yellow Rail	SPC		Р

- Federal Endangered = 1
- Federal Threatened= 1
- State Endangered= 2
- State Threatened= 4
- State Special Concern= 24
- Species in Greatest Conservation Need= 101





P=Present

END= Endangered

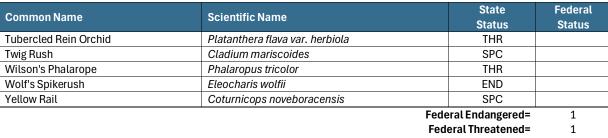
THR = Threatened

SPC= Species of Concern

Table F-2. At Risk Species in the CRSL.

Common Name	Scientific Name	State	Federal
A bristle born	Rubus fulleri	Status THR	Status
A bristle-berry A Caddisfly	Agapetus tomus	SPC	
A Jumping Spider	Habronattus viridipes	SPC	
Autumn Fimbry	Fimbristylis autumnalis	SPC	
	Hudsonia tomentosa		
Beach Heather		THR	
Big Brown Bat	Eptesicus fuscus	SPC	
Black Sandshell	Ligumia recta	SPC	
Blanding's Turtle	Emydoidea blandingii	THR	
Blunt Sedge	Carex obtusata	SPC	
Bog Bluegrass	Poa paludigena	THR	
Butternut	Juglans cinerea	END	
Cerulean Warbler	Setophaga cerulea	SPC	
Clinton's Bulrush	Trichophorum clintonii	THR	
Creek Heelsplitter	Lasmigona compressa	SPC	
Drummond's Campion	Silene drummondii ssp. drummondii	SPC	
Few-flowered Spikerush	Eleocharis quinqueflora	SPC	
Ghost Tiger Beetle	Cicindela lepida	THR	
Gray Wolf	Canis Lupus	DELISTED	THR
Greater Prairie-chicken	Tympanuchus cupido	SPC	
Hill's Thistle	Cirsium pumilum var. hillii	SPC	
Hooded Warbler	Setophaga citrina	SPC	
Kitten-tails	Besseya bullii	THR	
Lark Sparrow	Chondestes grammacus	SPC	
Least Darter	Etheostoma microperca	SPC	
Least Moonwort	Botrychium simplex	SPC	
Leonard's Skipper	Hesperia leonardus leonardus	SPC	
Little Brown Myotis	Myotis lucifugus	SPC	
Loggerhead Shrike	Lanius ludovicianus	END	
Marginated Rush	Juncus marginatus	END	
Mucket	Actinonaias ligamentina	THR	
Muskingum Sedge	Carex muskingumensis	SPC	
Narrow-leaved Water Plantain	Alisma gramineum	SPC	
Nelson's Sparrow	Ammodramus nelsoni	SPC	
Northern Barrens Tiger Beetle	Cicindela patruela patruela	SPC	
Northern Goshawk	Accipiter gentilis	SPC	END
Northern Long-eared Bat	Myotis septentrionalis	SPC	END
Oakes' Pondweed	Potamogeton oakesianus	END	
Olivaceous Spikerush	Eleocharis flavescens var. olivacea	THR	
Olive-colored Southern Naiad	Najas guadalupensis ssp. olivacea	SPC	
Plains Hog-nosed Snake	Heterodon nasicus	SPC	
Prairie Moonwort	Botrychium campestre	SPC	
Prairie Vole	Microtus ochrogaster	SPC	
Pugnose Shiner	Notropis anogenus	THR	
Purple Martin	Progne subis	SPC	
Red-shouldered Hawk	Buteo lineatus	SPC	
Short-eared Owl	Asio flammeus	SPC	
Slender Naiad	Najas gracillima	SPC	
Spotted Pondweed	Potamogeton pulcher	END	
St. Lawrence Grapefern	Botrychium rugulosum	SPC	
Swamp Blackberry	Rubus semisetosus	THR	
Trumpeter Swan	Cygnus buccinator	SPC	





FEMA

State Endangered= 6

State Threatened= 13

State Special Concern= 36



## **Appendix G. 1W1P Integration**

1W1P is a program administered by BWSR following Minnesota Statute §103B.801. The purpose of the 1W1P program is to develop comprehensive watershed management plans that align local water planning along watershed boundaries using existing governmental structure and capacity. The plan is developed through a multistakeholder process soliciting input and engaging experts from agencies, citizens, and stakeholder groups. Progress is tracked through measurable goals and implementation is funded by the Clean Water Land & Legacy Amendment. To read more about the 1W1P program see:

https://bwsr.state.mn.us/ one-watershed-one-plan.



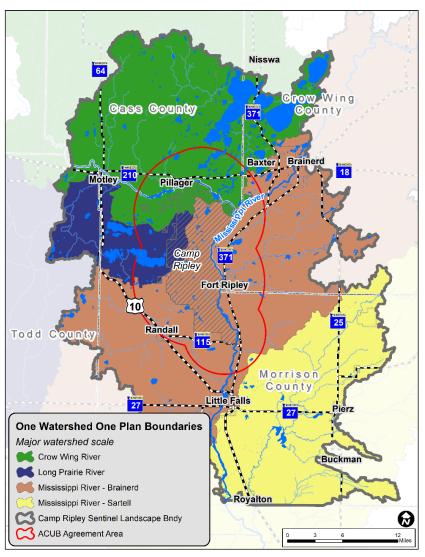


Figure G.1: 1W1P boundaries in the CRSL.

There are four 1W1Ps in the CRSL (Figure G.1. and Table G.1).

Table G.1: 1W1P areas in the CRSL and current status.

Major Watershed	% of the CRSL	Status as of 2024
Crow Wing River	29%	Projected approval in Dec 2024
Long Prairie River	8%	Approved
Mississippi River - Brainerd	40%	Approved
Mississippi River - Sartell	23%	Start in 2025?



#### Common 1W1P goals in the CRSL.

These comprehensive watershed management plans all have common goals that overlap with the goals of the CRSL, especially Land Protection and Agricultural Lands Management. Outreach to landowners and local stakeholders about land protection and land management practices is also a large part of implementing these plans. Watershed-based implementation funding from the state of Minnesota can be used to implement the goals of the CRSL and/or cost share with federal REPI funding. Therefore, completing work in the CRSL can be tracked towards both CRSL and 1W1P goals.

	Land Protection	•Protect land with conservation easements and acquisitions
	Wetland Protection	•Implement and enforce the Wetland Conservation Act.
	Lake Water Quality Enhancement	•Reduce phosphorus loading in lakes with declining trends
	Shoreline Protection and Restoration	•Protect sensitive and undeveloped shoreline, restore developed shoreline.
ź	Drinking Water Protection	•Seal unused wells, protect wellheads and sensitive areas.
	Hydrologic Connectivity	•Restore natural hydrology of streams including dam modification, culverts, road crossings, and flood plain connection.
-2000	Agricultural Lands Management	•Implement agricultural BMPs (no till, cover crops, pasture management, erosion control)



## **Appendix H. Goal and Benefit Calculations**

This plan includes acre goals and secondary benefits. This appendix describes how these goals and benefits were calculated.

### **CRSL Goals**

In order to calculate the CRSL Goals, first it was important to determine current progress. Enrollment data from multiple protection and management programs were gathered including SFIA, Easements, CRP, Woodland Stewardship Plans, and RCPP. It was determined that 233,313 acres (29% of the CRSL) was currently protected, and 59,785 acres (7.4% of the CRSL) had management programs, for a total of 293,098 acres (36.4%) of Conservation Care (Protection + Management).

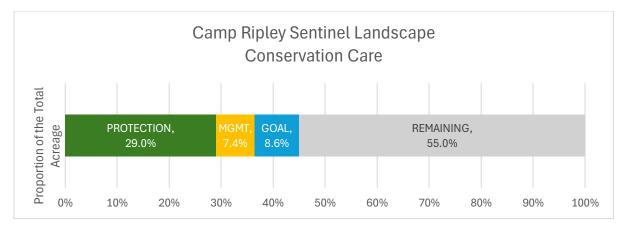
It is important to note that SFIA is counted as protection but is not permanent. It is a covenant on the land for 8, 20, or 50 years. The SFIA acres in Table H.1 are what is currently actively enrolled as of 12/31/2023. In addition, the RCPP Practices are estimated from the NRCS dataset but are not exact because they are not tracked by the individual parcel.

A goal was set to double the Management Programs in the watershed to 15% of the CRSL area total in the next five years. This will reach a total of 45% of the CRSL in Conservation Care (Protection + Management).

Camp Ripley Sentinel Landscape	2024		2024	
Program/Land Type	Acres		Percentage	5-Year Goal
Public Land	115,891	Protection		
Public Water	52,670	Protection		
NGO	2,063	Protection		
Easements	42,583	Protection		
SFIA	18,943	Protection		
TOTAL PROTECTION	232,150		<b>29.0</b> %	30%
CRP	3,140	Management		3,140
RCPP Practices	33,118	Management		33,118
Woodland Stewardship Plans (not SFIA)	23,527	Management		23,527
TOTAL MANAGEMENT	59,785		<b>7.4</b> %	<b>15</b> %
TOTAL CONSERVATION CARE	291,935	acres	36.4%	45.0%
CRSL GOAL	362,051		45.0%	
ACRES NEEDED TO ACHIEVE GOAL	70,116	acres	8.7%	
TOTAL ACRES IN CRSL	804,557			

#### Table H.1: CRSL Goal Calculations.





### **Secondary Benefits**

#### Phosphorus, Sediment, Nitrogen Benefits

As Agricultural Land Management Practices are implemented, benefits can be tracked with this BMP Benefits Calculator developed from the Hydrological Simulation Program - Fortran (HSPF) model developed by the MPCA.

	Sediment	Nitrogen	Phosphorus
BMP	tons/acre/yr	lbs/acre/year	lbs/acre/year
Nutrient Management	0	0.35	0.031
Pasture Management	0.014	2.63	0.121
Reduced Tillage	0.009	1.16	0.068
Cover Crop	0.014	0.98	0.059
Water and Sediment Control Basin	0.017	2.88	0.174

\*from MPCA HSPF data viewer, Data specific to the Mississippi River – Brainerd Major Watershed (HUC8)

#### **Carbon Benefits**

Carbon benefits were calculated as additional stacked benefits from implementing plan goals.

#### Forests

Using the plan's Protection and Management Goals, the carbon stored in the existing forests was quantified. Because this storage already exists, it was called "protected carbon storage" in the plan.

#### Reference:

USFS Forest Inventory and Analysis. EVALIDator tool: https://www.fs.usda.gov/ccrc/tool/forest-inventory-data-online-fido-and-evalidator



#### Agricultural BMPs

The number of acres that currently have Ag BMPs and the goal number of increased BMPs was used to quantify carbon sequestration gained from those practices as this would be new carbon capture.

#### Reference:

The goal of 4224 acres of agricultural BMPs was modeled in COMET-Planner as half cover crops and half no till to get a county-scale CO2e annual sequestration estimate.

#### Reference:

COMET-Planner tool. Carbon and Greenhouse Gas Evaluation for NRCS Conservation Practice Planning. USDA and Colorado State University. Available at: <u>http://www.comet-planner.com/</u>

#### Water Storage Benefits

Water storage benefits were calculated as additional stacked benefits from implementing plan goals.

#### Forests

Using the plan's Protection and Management Goals, the amount of storage was quantified that would be lost if existing forests were cleared for agricultural production or subdivisions for development. Therefore, it was called "protected water storage" in the plan.

#### <u>Reference:</u>

Senay, G. B. and Kagone, S., 2019, Daily SSEBop Evapotranspiration: U. S. Geological Survey Data Release, <u>https://doi.org/10.5066/P9L2YMV</u>



## **Appendix I. Additional Maps**

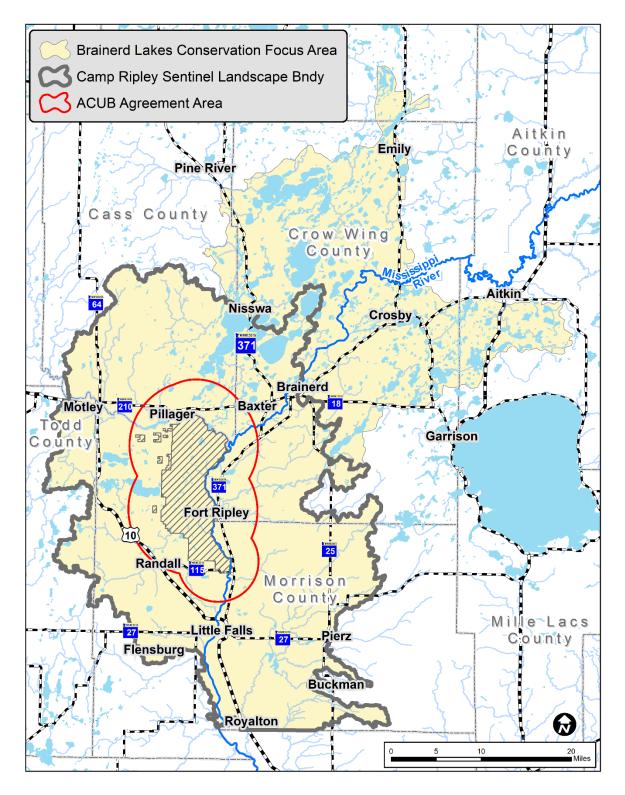


Figure I.1: Conservation Focus Areas and the CRSL.



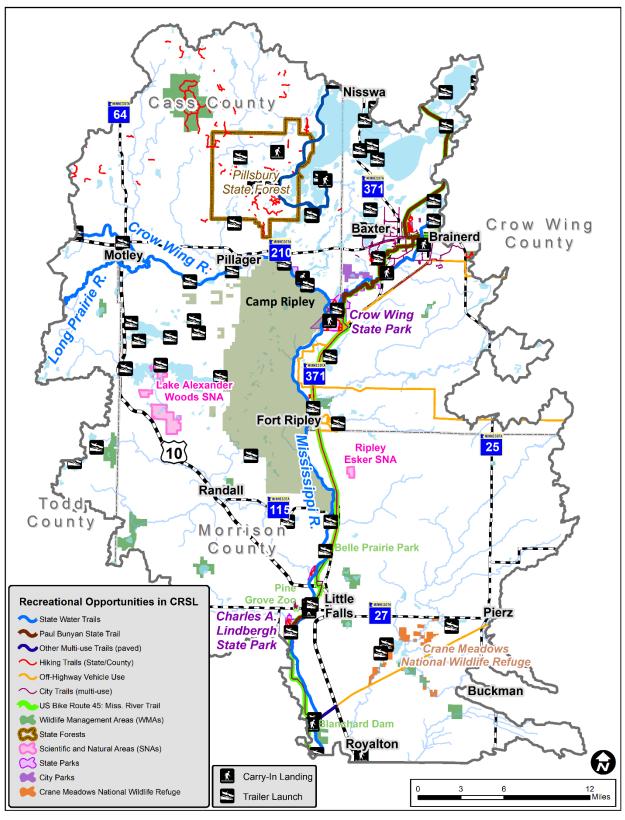


Figure I.2: Recreational opportunities in the CRSL.



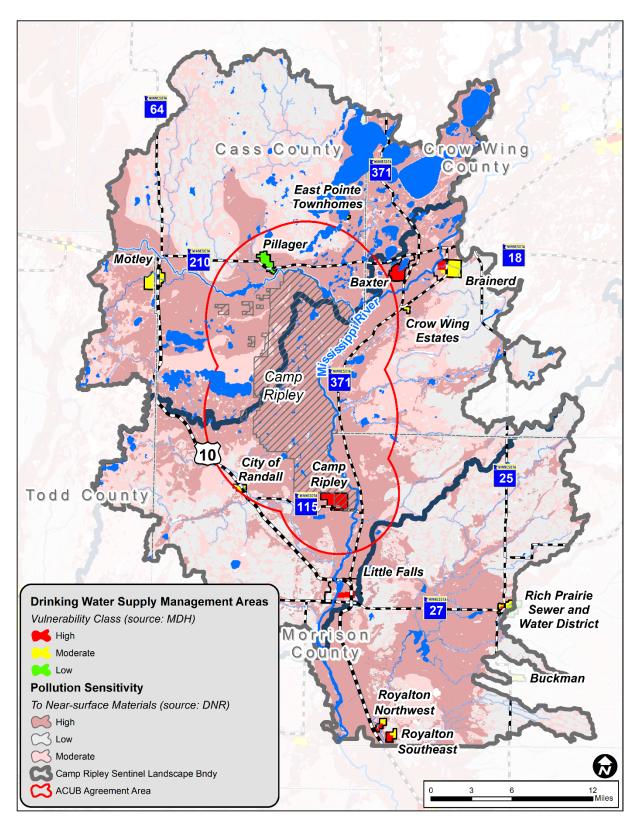


Figure I.3: Groundwater and drinking water sensitivity in the CRSL.



# Appendix J. Sentinel Landscape Planning Framework Alignment

### Vision:

The Camp Ripley Sentinel Landscape vision is to protect the current and future military training mission of Camp Ripley while protecting and enhancing natural and cultural resources, resilience, and preserving the rural character and economies of the landscape.

### **Purpose:**

To identify and develop programs that provide land protection, restoration, cultural resources, and climate resilience strategies that benefit the military mission of Camp Ripley, working lands and local communities within the landscape.

### **Principles/Philosophy**

There is no one entity solely responsible for the management of forest and water resources within the CRSL. Rather, there are numerous agencies and organizations with varying and sometimes overlapping roles and authorities. Identifying partners and clarifying roles is important to the successful implementation of this plan especially since there is no one governing entity.

Partners are encouraged to be active through the coordination, implementation and monitoring phases of this plan. They should all work to complement each other's efforts to increase the successful implementation of this plan. The goals and objectives outlined in this plan are attainable but will be accomplished only if the people and the organizations that work within the CRSL can develop the collective will to do what is necessary to make the plan's goals a reality.

### **Priorities**

- Camp Ripley Installation Resilience Protection
- Permanent Land Protection
- Land Management and Restoration
- Coordination with other conservation efforts
- Resilience
- Cultural Resources
- Recreation and Education
- Source Water Protection
- At Risk Species Habitat Protection



### **Goals, Strategies, and Actions**

Goal 1. Protect 79,291 acres (60%) within the ACUB Agreement Area, at a rate of 3,000 acres per year, to meet the military mission of Camp Ripley and preserve natural resources (add 28,370 acres).

# Strategy 1A - Support the acquisition of land to be used for public recreation and the development of trail and water networks

<u>Action</u>: Acquire priority lands for WMA's, SNA's, Parks, the Camp Ripley Veterans State Trail, Cuyuna Lakes State Trail, National Water Trail, and Mississippi River Trail

# Strategy 1B - Support the acquisition of habitat for species of greatest need and areas of highest terrestrial and aquatic resilience.

Action: Acquire forested corridors and resilient lands identified in the LSP.

#### Strategy 1C - Support the acquisition of Drinking Water Supply Management Areas.

<u>Action</u>: Acquire lands that are sensitive to groundwater pollution

#### Strategy 1D - Support the protection of cultural resources

<u>Action</u>: Acquire cultural resource lands identified in the Cultural and Environmental Geodatabase built for the CRSL.

# Strategy 1E - Maintain a criterion ranking system for prioritization of lands for protection within the ACUB Agreement Area.

<u>Action</u>: Develop or utilize existing ranking criteria for each acquisition project type.

# Goal 2. Manage/Improve 362,051 acres (45%) in the Camp Ripley Sentinel Landscape (add 68,953 acres).

**Strategy 2A - Support the maintenance and enhancement of public and private forest lands.** <u>Action</u>: Support programs that target private landowners in the development of forest management plans.

<u>Action</u>: Foster private enrollment in Sustainable Forest Incentive Act (SFIA) and 2c tax incentive programs.

#### Strategy 2B - Support the maintenance and enhancement of agricultural lands.

<u>Action</u>: Maximize certification of agricultural land within the CRSL through the Minnesota Agricultural Water Quality Certification Program

<u>Action</u>: Work with local counties to implement Minnesota's Farmland Protection Toolbox on priority agricultural lands.

<u>Action</u>: Support development of grazing management plans in areas identified as working grasslands with the highest water quality benefit (ground and surface water).



# Goal 3. Maintain and enhance existing working relationships, partner coordination, and community outreach.

#### Strategy 3A - Maintain formal SL partnership agreements

<u>Action</u>: Maintain cooperative agreements with National Guard Bureau and ACUB partners.

<u>Action</u>: Maintain administrative ACUB requirements and continue to seek and execute funding for implementation.

<u>Action</u>: Identify funding and mechanisms to continue staff capacity to implement CRSL coordinator responsibilities.

# Strategy 3B - Ensure alignment of agency actions and policy priorities at multiple levels of government.

<u>Action</u>: Encourage and develop local and state policies and programs to leverage the Sentinel Landscape partnership.

Action: Coordinate and communicate CRSL Programs up into the state agencies.

# Strategy 3C - Develop an internal communication strategy to help maintain the health of the partnership.

<u>Action</u>: Work with partners and stakeholders to link citizens and businesses in the area to support organizations actively working to protect, restore and improve forest and water resources in the watershed.

<u>Action</u>: Review, track, and develop funding proposals that leverage Federal-Federal and Federal-State matching dollars for program implementation.

Action: Proactively educate landowners through coordinated partner outreach.

<u>Action</u>: Implement public outreach programs to build community stakeholder involvement (tours, events).