



MODIFICATION OF GRANT OR AGREEMENT	PAGE	OF PAGES
	1	7

1. U.S. FOREST SERVICE GRANT/AGREEMENT NUMBER: 15-GN-11091300-109	2. RECIPIENT/COOPERATOR GRANT or AGREEMENT NUMBER, IF ANY:	3. MODIFICATION NUMBER: 007
4. NAME/ADDRESS OF U.S. FOREST SERVICE UNIT ADMINISTERING GRANT/AGREEMENT (unit name, street, city, state, and zip + 4): Tina Smith, Lake States Acquisition Team, 500 Hanson Lake Road, Rhinelander, WI 54501	5. NAME/ADDRESS OF U.S. FOREST SERVICE UNIT ADMINISTERING PROJECT/ACTIVITY (unit name, street, city, state, and zip + 4): Adam Felts, Chequamegon-Nicolet National Forest, 500 Hanson Lake Road, Rhinelander, WI 54501	
6. NAME/ADDRESS OF RECIPIENT/COOPERATOR (street, city, state, and zip + 4, county): Rebecca Diebel Wisconsin Department of Natural Resources P.O. Box 7921 Madison, WI 53707	7. RECIPIENT/COOPERATOR'S HHS SUB ACCOUNT NUMBER (For HHS payment use only):	

8. PURPOSE OF MODIFICATION

CHECK ALL THAT APPLY:	This modification is issued pursuant to the modification provision in the grant/agreement referenced in item no. 1, above.
<input type="checkbox"/>	CHANGE IN PERFORMANCE PERIOD:
<input type="checkbox"/>	CHANGE IN FUNDING:
<input checked="" type="checkbox"/>	ADMINISTRATIVE CHANGES: Update III. A – Principal Contacts.
<input checked="" type="checkbox"/>	OTHER (Specify type of modification): Update II Section II Good Neighbor Authority Objectives, Appendix B – Financial Plan Year 4 and Appendix C – Restoration Projects Statement of Work Project Areas Year 4

Except as provided herein, all terms and conditions of the Grant/Agreement referenced in 1, above, remain unchanged and in full force and effect.

9. ADDITIONAL SPACE FOR DESCRIPTION OF MODIFICATION (add additional pages as needed): Due to recent changes via the 2018 Appropriations Act (which affected the Good Neighbor Farm Bill language) to now allow road reconstruction, repair and rehabilitation to access project areas under Good Neighbor Authority, this Modification updates Section **Authorized Activities** of the SPA to reflect the new language. Update Appendix A Silvicultural Prescriptions and Reforestation Activities language.

10. ATTACHED DOCUMENTATION (Check all that apply):

<input checked="" type="checkbox"/>	Revised Scope of Work
<input checked="" type="checkbox"/>	Revised Financial Plan
<input checked="" type="checkbox"/>	Other: Updated Section II and updated Attachment III. A - Principal Contacts

11. SIGNATURES

AUTHORIZED REPRESENTATIVE: BY SIGNATURE BELOW, THE SIGNING PARTIES CERTIFY THAT THEY ARE THE OFFICIAL REPRESENTATIVES OF THEIR RESPECTIVE PARTIES AND AUTHORIZED TO ACT IN THEIR RESPECTIVE AREAS FOR MATTERS RELATED TO THE ABOVE-REFERENCED GRANT/AGREEMENT.

11.A. WISCONSIN DNR SIGNATURE (Signature of Signatory Official)	11.B. DATE SIGNED 3/19/19	11.C. U.S. FOREST SERVICE SIGNATURE (Signature of Signatory Official)	11.D. DATE SIGNED 3/26/19
11.E. NAME (type or print): FRED SOUBA		11.F. NAME (type or print): PAUL I.V. STRONG	
11.G. TITLE (type or print): Chief State Forester		11.H. TITLE (type or print): Forest Supervisor	

12. G&A REVIEW

12.A. The authority and format of this modification have been reviewed and approved for signature by: TINA SMITH U.S. Forest Service Grants & Agreements Specialist	12.B. DATE SIGNED 3/25/19
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**Authorized Activities:****Remove in its entirety the following paragraph under Authorized Activities:**

Only authorized forest, rangeland, and watershed restoration services are allowed under this SPA which includes activities to treat insect and disease infected trees; activities to reduce hazardous fuels; and any other activities to restore or improve forest, rangeland, and watershed health, including fish, and wildlife habit. Services not allowed under this SPA include construction, reconstruction, repair, or restoration of paved or permanent roads or parking areas and construction, alteration, repair, or replacement of public buildings or works; as well as projects in wilderness areas, wilderness study areas, and lands where removal of vegetation is prohibited or restricted. Road maintenance and construction and decommissioning of temporary roads necessary to implement restoration or improvement projects are allowed. Timber Sales may be conducted on National Forest System lands as approved in Appendix D of this SPA.

Add the following paragraphs under Authorized Activities:

Only authorized forest, rangeland, and watershed restoration services are allowed under this SPA which includes activities to treat insect and disease infected trees; activities to reduce hazardous fuels; and any other activities to restore or improve forest, rangeland, and watershed health, including fish, and wildlife habit.

The reconstruction, repair, or restoration of an NFS system road that is necessary to carry out authorized restoration services is authorized. Any such roads reconstructed, repaired or restored that were previously identified as not needed according to 36 CFR 212.5(b)(2) must be decommissioned according to the travel management plan no later than 3 years after completion of the applicable authorized restoration project. The Good Neighbor Authority excludes construction of paved or permanent roads or parking areas, and construction, alteration, repair, or replacement of public buildings or works; as well as projects in wilderness areas, wilderness study areas, and lands where removal of vegetation is prohibited or restricted. Road maintenance and construction and decommissioning of temporary roads necessary to implement restoration or improvement projects are allowed. Timber Sales may be conducted on National Forest System lands as approved in Appendix D of this SPA.



**Remove in its entirety; the following provision under Appendix A; Scope of Work;
Section VI. The U.S. Forest Service Shall;**

Provision C. Provide certified silvicultural prescriptions to the State and provide clarification if requested. Review all silvicultural prescriptions prepared by the State and communicate approval or request modifications within 30 business days of submission or provide written notification with justification and alternative completion timeframe. Provide reference material in regard to supporting documentation, including GIS shape files and proposed sale boundaries of all forest stands in GNA project areas.

**Add the following provision under Appendix A; Scope of Work;
Section VI. The U.S. Forest Service Shall;**

Provision C. Silvicultural Prescriptions:

1. Provide silvicultural prescriptions signed by a Forest Service Certified Silviculturist to the State and provide clarification if requested. A Forest Service Certified Silviculturist is defined as a person who meets the requirements for experience and training, is certified by the Regional Forester and maintains certification every four years.
2. Have a certified silviculturist review all silvicultural prescriptions prepared by the State. All silvicultural activities on National Forest System lands that cut, burn, establish, or otherwise modify forest vegetation must have a silvicultural diagnoses and prescription reviewed by a certified silviculturist prior to implementing the project or treatment. Silvicultural treatments or treatment sequences include all management activities that control the establishment, growth, composition, health, and quality of forested lands to achieve stated land management objectives. Prescriptions:
 - a) Shall be described in a concise, detailed, written document that outlines a timed sequence of treatment activities so that assigned personnel can implement treatments to meet management objectives and to comply with National Environmental Policy Act (NEPA) decisions, the Forest Plan, and other applicable laws and policies such as the National Forest Management Act (NFMA).
 - b) Should include sufficient detail to ensure that implementation meets the intent of the prescription, including appropriate monitoring activities.
 - c) Should describe desired future conditions based on current and anticipated site conditions and provide, in measurable terms, a basis for monitoring and evaluation.
 - d) Shall be signed and dated by the author.
3. Approve State-written prescriptions by having a Forest Service Certified Silviculturist sign and date them and return them to the State for implementation under the terms of this agreement. If not approved, a certified silviculturist shall provide written notification and request modification within 14 business days of notification. If the State cannot meet this resubmission deadline, they may provide a justification and an alternative completion timeframe for consideration.



In Appendix A Scope of Work under Section IV. Specifications:

Add the following statements when artificial reforestation activities such as seeding or planting will be performed:

1. The Forest Service and State shall collaboratively decide how to conduct artificial reforestation activities, but the Forest Service shall retain a percentage of funds/program income for ordering and purchasing seed/seedlings.

The following should be considered when acquiring material:

Toumey Nursery is the preferred source for seed and stock, up to the nursery's capacity to produce. Needs above the capacity should be discussed with the nursery.



III. CONTACTS & TIME LIMITS:

- A. PRINCIPAL CONTACTS Individuals listed below are authorized to act in their respective areas for matters related to this agreement.

Principal State Contacts:

<u>State Program Contact</u>	<u>State Administrative Contact</u>
Name: Rebecca Diebel, Policy Advisor Address: P.O. Box 7921 City, State, Zip: Madison, WI 53707 Telephone: 608-444-5774 FAX: 608-266-8576 Email: Rebecca.diebel@wisconsin.gov	Name: Jeff Stagg, Budget and Policy Analyst, Forestry Address: P.O. Box 7921 City, State, Zip: Madison, WI 53707 Telephone: 608-267-0580 FAX: 608-266-8576 Email: Jeffrey.stagg@wisconsin.gov
Name: Jeff Olsen, National Forest Specialist Address: 107 Sutliff Ave. City, State, Zip: Rhinelander, WI 54501 Telephone: 715-892-0699 Email: Jeffrey.olsen@wisconsin.gov	

Principal U.S. Forest Service Contacts:

<u>U.S. Forest Service Project Contact Special Authorities Coordinator (Statewide)</u>	<u>U.S. Forest Service Project Contact Timber Program Manager (Statewide)</u>
Adam Felts, 500 Hanson Lake Road Rhinelander, WI 54501 Telephone: 715-362-1335 FAX: 715-369-8859 Email: afelts@usda.gov	Karl Welch, Timber Sale Contracting Officer 500 Hanson Lake Road Rhinelander, WI 54501 Telephone: 715-362-1329 FAX: 715-369-8859 Email: kwelch@usda.gov

III. State agency and Forest Service technical contacts

Principal State Project Contacts:

<u>Wisconsin DNR GNA Operations Leader (Statewide)</u>	<u>State Project Contact Lakewood-Laona District Area</u>
Name: Jeff Olsen, National Forest Specialist Address: 107 Sutliff Ave. City, State, Zip: Rhinelander, WI 54501 Telephone: 715-892-0699 Email: Jeffrey.olsen@wisconsin.gov	Name: Avery Jenke 15085 State Hwy 32 Lakewood, WI 54138 Telephone: 920-604-5631 Email: avery.jenke@wisconsin.gov



State Project Contact Great Divide & Washburn District Area	
Dave Todus 10220 State Hwy 27 South Hayward, WI 54843 Telephone: 715-577-1806 FAX: 715-634-9232 Email: David.todus@wisconsin.gov	
State Project Contact Medford-Park Falls District Area	State Project Contact Eagle River-Florence District Area
Maggie Lorenz 875 S. 4 th Ave. Park Falls, WI 54522 Telephone: 715-492-1970 Email: Margaret.lorenz@wisconsin.gov	Hillary Keller 404 N. Lake Street Crandon, WI 54520 Telephone: 715-479-3010 Email: Hillary.keller@wisconsin.gov

Principal U.S. Forest Service Project Contacts:

U.S. Forest Service Project Contact Special Authorities Coordinator (Statewide)	U.S. Forest Service Project Contact Timber Program Manager (Statewide)
Adam Felts 500 Hanson Lake Road Rhinelander, WI 54501 Telephone: 715-362-1335 FAX: 715-369-8859 Email: afelts@usda.gov	Karl Welch, Timber Sale Contracting Officer 500 Hanson Lake Road Rhinelander, WI 54501 Telephone: 715-362-1329 FAX: 715-369-8859 Email: kwelch@usda.gov
U.S. Forest Service Project Contact Park Falls-Medford District Area	U.S. Forest Service Project Contact Great Divide District Area
Melanie Fullman 1170 4 th Ave. S. Park Falls, WI 54552 Telephone: 715-762-5107 FAX: 715-762-5179 Email: mfullman@usda.gov	Mike Martin P.O. Box 126 Glidden, WI 54527 Telephone: 715-264-2511 FAX: 715-264-3307 Email: mikemartin@usda.gov

U.S. Forest Service Project Contact Eagle River-Florence District Area	U.S. Forest Service Project Contact Lakewood-Laona District Area
Chad Kirschbaum 1247 E. Wall Street Eagle River, WI 54521 Telephone: 715-479-2827 Ext. 14 FAX: 715-479-6407 Email: ckirschbaum@usda.gov	Michael Brown 15085 State Rd 32 Lakewood, WI 54138 Telephone: 715-276-6333 FAX: 715-276-3594 Email: michaelwbrown@usda.gov
U.S. Forest Service Project Contact Washburn District Area	
Brad Turberville P.O. Box 578 Washburn, WI 54891 Telephone: 715-373-2667 x5224 Email: bturberville@usda.gov	



Burden Statement

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0596-0217. The time required to complete this information collection is estimated to average 30 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

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Common Stand Examination

Restoration Project A

Appendix A: Operating Plan/Statement of Work

I. Project Description:

This project will examine aerial photographs/imagery, confirm/delineating/modify current stand boundaries, and collect vegetative data (inventory) of Chequamegon-Nicolet National Forest (CNNF) lands using the Forest Service Common Stand Exam (CSE) protocol. The purpose is to obtain the site, setting, and tree characteristics required to identify stand conditions and capabilities in providing the CNNF information with which management determinations for natural resources including silvicultural treatment will be made. The data will be specifically used to support future environmental analyses required to be completed before timber sale establishment begins on CNNF lands.

An annual statement of work will identify the specific compartments/stands to be inventoried.

II. Forest Service Shall:

1. Provide list by Ranger District of Compartment/Stand/Acres for each stand identified for data collection along with number of plots required per stand
2. Provide Compartment Maps showing present stand boundaries to be used as reference.
3. Provide access to spatial stand files, aerial imagery and other spatial data to support data collection
4. Provide electronic access to *Exams PC and Exams CE software and Region 9 Common Stand Exam Field Guide* (CSE Field Guide); <https://www.fs.fed.us/nrm/fsveg/>
5. Identify projects areas that include additional/reduced measurements to be taken that differ from Standard Quick Plot protocol (ie 10 year radial growth, Live Crown Ratio, disease or damage agents etc)

III. State Shall:

1. Locate, establish, measure and record vegetative data on sample plots according to CSE Field Guide and specific project area requirements
2. Provide the appropriate completed electronic setting data forms, tree/plot data and other required forms in Exams PC/ExamsPDR (.cse) read-only file format.
3. Mark accurate plot locations, travel routes, and azimuths on photo acetate overlays, maps, or shapefiles. The acetate overlay, if used, shall be marked with the aerial photo identification and compartment/area identification.
4. Plot updated stand delineations on the aerial photo acetate overlay, map, or shapefile.
5. Submit stand list containing stand numbers with corresponding number of plots, examiner names(s) and dates(s).
6. Maintain a back-up copy until work has been accepted.

Common Stand Examination

Restoration Project A

Appendix A: Operating Plan/Statement of Work

IV. Goals:

1. Conduct additional acreage of vegetation inventory to support increased environmental analysis associated with increases in the CNNF timber program outputs.
2. Gather information to identify ecosystems at risk of or undergoing insect and disease infestations such as maple decline, emerald ash borer, spruce bud worm etc

V. Objectives:

1. Update existing stand boundaries and stand level tree characteristics on lands identified as suitable for timber production within the CNNF
2. Use data to increase CNNF efficiencies throughout the environmental planning process including more accurate proposed timber sale actions and fewer post decision acreage deferrals
3. Identify infestations of forest pests and vulnerable ecosystems to monitor when insect or diseases become established in or adjacent to CNNF land

VI. Tasks and Timelines:

The tasks and general timeline for this project are as follows:

Time	Description
Late Winter/early Spring annually	Forest Service will determine which compartments/stands to inventory and provide information to State
Anytime throughout the year	Inventory may conducted during any season and in any conditions.
June 30 th (14-18 months after providing compartment/stand list)	Submit updated stand delineations and inventory data in .cse electronic format

VII. Long Term Benefits:

Long-term benefits include assisting the CNNF in accelerating the pace and scale of achievement of Goals and Objectives identified in the CNNF Land and Resource Management Plan. Specifically those Goals and Objectives associated with maintaining healthy forest communities and delivery of forest products to meet the needs of society. Updated inventory will allow the CNNF to become more efficient with project development for environmental analyses and utilize internal resources to further expedite analyses.

Common Stand Examination

Restoration Project A

Appendix A: Technical Specifications

DEFINITIONS

The following are definitions that refer to data elements and attributes for collecting Common Stand Exam data.

Chain. One chain is equal to 66 feet.

CSE (.cse) File. File format containing field data that has been created using Exams PDR or Exams PC software. The file extension is .cse.

Inspection. The actions taken by the CNNF to determine if DNR's methods and data meet requirements. The methods for inspection and follow-up are described in the Section E.3 Acceptance and E.4 Re-work.

Quality Assurance. The actions taken by the CNNF to assess the results to determine that they meet requirements. The methods for quality assurance are described in the Section E.3 Acceptance and Inspection and E.4 Rework.

Navigation. Navigation is the process of traveling from one place to another and knowing where you are in relation to your desired course.

Plot/Tree Data Form. The Plot/Tree Data form is used to collect data at the plot level and is independent of the information collected at the setting level. This data is collected individually for all sample plots in the stand.

PDR (.pdr) File. Personal Data Record is a file format containing template information that will be collected in the field. The file extension is .pdr. This file will be provided to the contractor by the Forest Service prior to the commencement of work.

Sample Design Form. The Sample Design form contains information about how the data was collected, which trees, shrubs and cover are measured, and how the measurements shall be converted to pre-acre values.

Setting Data Form. The Setting Data form is used to collect data that uniquely identifies each stand.

Stand. A stand is a community, particularly of trees, possessing sufficient uniformity as regards composition, age, spatial arrangement, or condition, to be distinguishable from adjacent communities, so forming a silvicultural or management entity.

PLOT LOCATION AND ESTABLISHMENT

LOCATING STANDS TO BE EXAMINED

Common Stand Examination

Restoration Project A

Appendix A: Technical Specifications

The CNNF will furnish to the DNR a list of compartment and stand numbers to be examined. Compartment maps showing the present boundaries of the stands to be examined will be provided. These compartment maps will be used as a reference. The old stand boundaries do not necessarily meet current stand typing requirements. Before beginning the field work in each compartment/area, the DNR will stereoscopically examine the aerial photographs or other imagery of that compartment/area. Some stand boundaries may be delineated on aerial photos prior to contracted work. It is the DNR's responsibility to confirm or correct boundaries of the stands to be examined, on the acetate overlays, maps, or shapefiles.

Preliminary stand delineation from the aerial photographs is generally based on soil type, forest types, size/density, roads, streams, trails, previous stand data, and other factors affecting management. Individual stands shall be contiguous. New forested stands must be at least 10 acres and non-forested stands must be at least ½ acre in size. Stands smaller than this standard should be considered inclusions.

2. During field examination, stand boundaries will be refined as needed based on differences in forest type, size, and density of forest vegetation, stand age, and other factors encountered which would affect management decisions.

PLOT LOCATION AND NUMBER.

The number of plots for each stand will be determined by the CNNF based on the table below. Stands will be sampled by measurements in individual plots dispersed throughout the stand. The number of sample plots is based on the acreage of the stand. If additional stands are broken out of the originally delineated stand, the number of plots will be based on the acreage for each stand. New forested stands must be at least 10 acres and non-forested stands must be at least ½ acre in size. New stands should be numbered with the same number as the original stand number with an added nine (9) character (for example, if stand 0010 is split into two stands one will retain the original stand 010 and the new stand should be labeled 9010). The following guide will be used to determine the number of sample locations needed in each stand:

Common Stand Examination

Restoration Project A

Appendix A: Technical Specifications

Stand acres	Number of sample (plot) locations
1-10	3
11-20	4
21-30	5
31-40	6
41-60	7
61-80	8
81-100	9
101+	10 + 1 additional plot for each increment of 25 acres over 125, not to exceed 20 plots per stand. For example, a 156-acre stand will have 12 plots.

Sample plot locations will be distributed evenly throughout each assigned stand. The DNR will establish travel routes and plot locations on an acetate overlay, map, or shapefile for each stand examined. A starting point, the azimuth, and the distance in chains or hundreds of feet between plots will be shown on the travel route on the acetate overlay, map, or shapefile for the stand. Plots will be numbered consecutively within stands in the order examined according to the indicated route of travel. The distance between sample locations should not be less than three chains where possible. No plot center shall be located closer than 1 chain from the stand boundary. Plot center locations shall be adjusted if needed to avoid special protection areas such as streamside zones, seeps, sinkhole ponds, etc.

STAND TRAVEL ROUTE ESTABLISHMENT

A non-biased travel route will be established prior to entering a stand for sampling.

1. Travel routes shall represent a good cross-section of the stand proportional to the shape of the stand. Minimize the number of abrupt route changes necessary to sample irregular stands. Identify plot locations by number. Maintain a legible record of the travel routes and plot locations on an acetate overlay. Travel routes and plot locations shall be approved prior to field work.
2. Point of Beginning: Travel routes will be started from a readily-definable reference point, either natural or man-made. The starting point of each individual travel route will be marked with two lengths of flagging. Write the compartment number and stand number on one of the pieces of flagging using permanent ink.
3. At the point where the DNR's cruise line crosses a road or trail within the stand, or ends at a road or trail, the DNR will tie a length of flagging. Write the compartment number and stand number on the flagging using permanent ink.

Common Stand Examination

Restoration Project A

Appendix A: Technical Specifications

4. Flagging will be tied at eye level at the approximate mid-point between plots.

PLOT CENTER ESTABLISHMENT

Sample plot centers will be identified on the ground using a stake or wire flag as agreed upon with the COR. Tie flagging on the stake to mark it. Tie another 18-24 inch length of flagging to a tree or branch at eye level near plot center. Write the stand number and plot number on this flagging using permanent ink. The DNR shall provide colored flagging (color will be determined at the pre-work conference) which will last through all environmental conditions until inspections are completed.

COMMON STAND EXAM

DATA COLLECTION

The DNR shall locate, establish, measure and record data using variable plot data (10 basal area factor) that shall be taken at each designated sample point. Fixed radius plot data will only be collected when data for trees less than 1.0 inch in diameter at breast height is required (identified in solicitation and pre-work conference). CSE data shall be collected and recorded in accordance with the *CSE Field Guide* unless specifically modified by this Operating Plan. The DNR shall collect according to the Sample Design Form to complete the Setting Data Form and the Plot/Tree Data form, as specified in, Section C.3.5. – Data Collection.

Data Codes

The DNR shall use appropriate codes in accordance with the *CSE Field Guide*.

DATA COLLECTION FORMS

The following tables demonstrate the required fields for each form that is to be collected and recorded. All data shall be taken in accordance with the *CSE Field Guide*. An “X” in the Exam Level column indicates the required fields for this solicitation.

SETTING DATA FORM (EXHIBIT 2).

The Setting Data Form shall be used to record stand measurements, stand comments, as well as design parameters and references.

Field Name	Exam Level <i>Quick Plot</i>	Comments	Accuracy Standard	Data Source
Proclaimed Region	X	09	No Error	CNNF
Proclaimed National Forest	X	02-Cheq; 06-Nic	No Error	CNNF
District	X	See field 3 table below	No Error	CNNF
Location	X	Compartment #	No Error	CNNF
Stand Number	X		No Error	CNNF

Common Stand Examination

Restoration Project A

Appendix A: Technical Specifications

Project Name	X	District Specific	No Error	CNNF
Ownership	X	USFS	No Error	CNNF
State	X	WI	No Error	CNNF
County	X		No Error	DNR
Administrative Forest	X	13	No Error	CNNF
Date	X		No Error	DNR
Examination Level	X	varies	No Error	CNNF
Exam Purpose	X	SE	No Error	CNNF
Existing Vegetation Cover Type	X	CSE User Guide Appendix E	No Error	DNR
Structure	X	CSE User Guide 4-14	No Error	DNR
Acres	X		No Error	CNNF
Precision Protocol	X	CSE_Q	No Error	CNNF
Examiner	X		No Error	DNR
Stand Remarks 1/	X	Brief & important comments on stand conditions.	N/A	DNR
Stand Damage Category	X	See Appendix 1	Best estimate	DNR
Stand Damage Agent	X	If needed "000"	N/A	DNR
Stand Damage Severity	X	See Appendix 1	Best estimate	DNR
Damage Part	X	See Appendix 1	Best estimate	DNR

1/ Additional bonus points (1-2 each) will be awarded for remarks which provide accurate and meaningful information on the following:

- Coverage of established tree regeneration in the understory
- Presence and location of non-native invasive plants
- Location of raptor stick nests
- Appropriate prescription for site conditions and alternative prescriptions
- Identification of within stand inclusions (ponds, wetlands, rock outcrop, steep slopes, unique species, etc.)

Field 3: District codes

Code	District
01	Medford-Park Falls
02	Great Divide
03	Eagle River-Florence
04	Lakewood-Laona
05	Washburn

Stand Damage Category. Follow categories in Appendix 1 of this document.

Stand Damage Agent. Will always be coded 000.

Stand Damage Severity. Follow categories in Appendix 1 of this document.

Common Stand Examination

Restoration Project A

Appendix A: Technical Specifications

Damage Part. Follow categories in Appendix 1 of this document.

More detailed insect, disease, weather, or fire damage data will only be collected on individual trees when required in the appendix to the Operating Plan and discussed at the pre-work conference.

SAMPLE DESIGN FORM.

The Sample Design Form shall be used to record design parameters as provided by the CNNF.

Required

Form Type	Method	Expansion Factor	Az	Condition	Subpop Filter	Variable	Minimum Value	Maximum Value
TREE	BAF	10			ALL	DBH	1.0	999.99

If seedling count is requested in solicitation (option 1)

Form Type	Method	Expansion Factor	Az	Condition	Subpop Filter	Variable	Minimum Value	Maximum Value
TREE	FRQ	700		OR	LIVE	DBH	0.1	0.99
					LIVE	HGT	0.5	4.5

If seedling count is requested in solicitation (option 2)

Form Type	Method	Expansion Factor	Az	Condition	Subpop Filter	Variable	Minimum Value	Maximum Value
TREE	FRQ	200		OR	LIVE	DBH	0.1	0.99
					LIVE	HGT	0.5	4.5

If seedling count is requested in solicitation (option 3)

Form Type	Method	Expansion Factor	Az	Condition	Subpop Filter	Variable	Minimum Value	Maximum Value
TREE	FRQ	300		OR	LIVE	HGT	0.2	0.99
				OR	LIVE	HGT	1.0	2.99
				OR	LIVE	HGT	3.0	4.99
				OR	LIVE	HGT	5.0	9.99
				OR	LIVE	HGT	10.0	99.99

Common Stand Examination

Restoration Project A

Appendix A: Technical Specifications

PLOT/TREE DATA FORM (EXHIBIT 3).

The Plot/Tree Data Form shall be used to record tree measurement information. The DNR shall use the following criteria for selecting trees:

- The DNR shall use a 10 Basal Area Factor (BAF) prism to tally all live or dead conifer and deciduous trees $\geq 1.0''$ DBH for each stand. Trees will be recorded individually and in order starting with the tree to the right of 0° azimuth.
- **(If requested in the appendix to the Operating Plan)** The DNR shall install the 1/700 acre (4.45 foot radius) fixed subplot size used in tallying trees $< 1.0''$ DBH. The fixed radius subplot tallies all live conifer and deciduous trees $0.1''$ DBH to $0.99''$ DBH and all live conifer and deciduous trees $0.5'$ height to $4.5'$ height.
- **(If requested in the appendix to the Operating Plan)** The DNR shall install the 1/200 acre (8.33 foot radius) fixed subplot size used in tallying trees $< 1.0''$ DBH. The fixed radius subplot tallies all live conifer and deciduous trees $0.1''$ DBH to $0.99''$ DBH and all live conifer and deciduous trees $0.5'$ height to $4.5'$ height.
- **(If requested in the appendix to the Operating Plan)** The DNR shall install the 1/300 acre (6.8 foot radius) fixed subplot size used in tallying trees $< 5.0''$ DBH following DNR Forest Regeneration Metric (FRM) methods. The fixed radius subplot tallies all seedlings and saplings by species and height class. Height classes are $2''$ to 1 ft, $1-3$ ft, $3-5$ ft, $5-10$ ft, and > 10 ft.

Field Name	Exam Level Quick Plot	Comments	Accuracy Standard	Data Source
Header Information	X		No Error	DNR
Plot Number	X		No Error	DNR
Latitude/Longitude	X	PDR/GPS necessary	10 meters	DNR
Tag ID	X		No Error	DNR
Tree Status	X	Live (L) or dead (D) only	No Error	DNR
Tree Class	If requested	Growing stock quality	90% of trees on plot correct	DNR
Site/Growth Trees	X	1 per stand	No Error	DNR
Tree Species	X		No Error	DNR
Tree Count	X		No Error	DNR
DBH	X	Trees ≥ 4.5 feet tall.	$\pm 10\%$ 1/	DNR
Height	X	Site trees 2/ Snags 3/	$\pm 5\%$	DNR
Tree Age	X	Site trees only	$\pm 10\%$	DNR
Snag Decay	X		1 class	DNR

Common Stand Examination

Restoration Project A

Appendix A: Technical Specifications

- 1/ Trees must be within one of the appropriate size classes (see dbh section).
- 2/ Site trees to nearest foot
- 3/ Snags only need ocular estimate to nearest foot but there is no accuracy standard.

Latitude/Longitude.

Degrees – maximum of three digits. A leading zero may be entered (e.g. 090).

Minutes – two digits.

Seconds – four digits. Round to the nearest hundredth (e.g. 17.36).

Maximum allowed error for plot center location is 10 meters.

Tag ID. Record a number, unique within each plot. On each plot, start with “1” and increment one number for each tree record. Trees ≤ 1.00” to 4.99” DBH may be grouped by DBH class and species. Trees ≥ 5.0” DBH shall be tallied individually. The Tag ID, in conjunction with the plot number, uniquely identifies each line of tree data in the setting.

TREE STATUS. The following tree status codes shall be used.

Code	Description
L	Live
D	Dead

TREE CLASS. The following tree class codes shall be used.

Code	Description
DE	Desirable
AC	Acceptable
UA	Unacceptable
RF	Rough cull
RN	Rotten cull
SL	Salvable dead
US	Un-salvable dead

SITE/GROWTH TREES. A minimum of one site tree shall be recorded per stand. To facilitate inspection, all site trees shall be marked with flagging tied to the tree and labeled with the tree number, plot number, and “S” for site tree. A distance and azimuth from the nearest plot center (or GPS waypoint) shall be provided for off-plot site trees.

Code	Description
S	Site tree on plot
F	Site tree off plot

TREE SPECIES. Tree species shall be limited to the list included in Appendix H of the CSE Field Guide.

Common Stand Examination

Restoration Project A

Appendix A: Technical Specifications

TREE COUNT. Trees $\leq 1.00''$ to $4.99''$ DBH may be grouped by DBH class and species. Trees $\geq 5.0''$ DBH shall be tallied individually. Tree count is based on the 10 factor basal area tally for each plot. If necessary, the distance measurement should be taken from the face of the tree to plot center and compared to Table K-1 in Appendix K of the CSE Users Guide. A tree within the limiting distance is "in" and beyond the limiting distance is "out".

DBH. The following size classes (in inches) shall be used. The accuracy standard (option 1) is required unless specifically in applicable Appendix C where more accuracy is required (option 2 will be used in that case).

DBH Classes	Code
1.00 to 2.99	2.0
3.00 to 4.99	4.0
5.00 to 6.99	6.0
7.00 to 8.99	8.0
9.00 to 10.99	10.0
11.00 to 12.99	12.0
13.00 to 14.99	14.0
Etc.	Etc.

Option 1: The DBH accuracy standard is all trees must be within a DBH class that is within 10% of the actual tree measurement. For example, if a tree actually measures 14.1 inches DBH (10%+/- provides a range of 12.69 to 15.51 inches), then this tree could be correctly coded as a 12, 14 or 16 inch tree. However, if any more than three trees on any one plot are outside their actual DBH class (14.0 inch in this example) then every tree beyond the three will be considered an error.

If any tree is recorded more than one class off its acceptable range (12, 14 or 16 in the example) the error will be doubled. For example, if a tree actually measures 14.1 inches in DBH but is recorded as 20 inches, the error would be doubled.

Option 2 (**only if requested in the appendix to this Operating Plan**): If requested, Option 1 is deleted and the DBH accuracy standard is all trees must be within the proper DBH size class 90% of the time. Should a tree be recorded in a DBH class more than one class off then the error will be multiplied by the number of size classes it is off. For example, if a tree actually measures 8.9 inches, the actual DBH class code is 8.0. Should this tree be recorded in the 10.0 inch DBH size class, it would be considered an error. If the same tree is recorded as a 12.0 inch DBH size class, it would be consider 2 errors.

All trees from inspection plots will be added together and at least 90% of these trees must be within the appropriate size class. For example, if 4 plots had 9 trees each (totaling 36 trees) then there can only be 3 errors at a maximum to be within the accuracy standard.

SNAG DECAY. Follow the CSE Field Guide (Chapter 4, 4-98) to give a rating from 1-5.

Common Stand Examination

Restoration Project A

Appendix A: Technical Specifications

INSPECTION

The CNNF reserves the right to conduct quality inspections on approximately 1% of plots established. Inspections will be used to provide feedback to DNR to refine future data collection procedures UNLESS deficiencies/gaps in data collection protocol are identified. In this case revisiting of previously established plots will be requested.

Common Stand Examination

Restoration Project A

Appendix C: Project Areas and Treatment

Stand Exam Program Income Projects for State FY19 (July 1, 2018 – June 30, 2019):

District	Project Area	Est. No. Stands	Estimated Acres	Est. No. Plots	Data Needed By
Great Divide	Morse-Stockfarm	431	14,097	2,315	June 30, 2020
Washburn	Red Pine Rotation	116	6,555	741	June 30, 2020
Eagle River-Florence	Lone Duck	211	3,540	852	June 30, 2020
TOTAL		758 stands	24,192 acres	3,908 plots	

Accompanying this summary table are stand lists and vicinity maps for each district. There is no vicinity map for the Washburn red pine project because it is scattered across most of the district. Detailed maps, specifications, data codes, etc. will be provided later.

Updated 12/10/2018

J. Van Cleve

District	Project	Compartment	# of Stands	Acres	# of Plots
Great Divide	Morse-Stockfarm	139	3	447	25
Great Divide	Morse-Stockfarm	143	5	156	28
Great Divide	Morse-Stockfarm	145	17	480	88
Great Divide	Morse-Stockfarm	146	9	285	48
Great Divide	Morse-Stockfarm	147	22	719	108
Great Divide	Morse-Stockfarm	148	8	344	49
Great Divide	Morse-Stockfarm	149	17	545	86
Great Divide	Morse-Stockfarm	150	12	307	57
Great Divide	Morse-Stockfarm	151	10	317	54
Great Divide	Morse-Stockfarm	152	22	553	102
Great Divide	Morse-Stockfarm	153	17	688	96
Great Divide	Morse-Stockfarm	154	17	474	86
Great Divide	Morse-Stockfarm	155	10	221	46
Great Divide	Morse-Stockfarm	156	23	626	115
Great Divide	Morse-Stockfarm	157	19	547	97
Great Divide	Morse-Stockfarm	158	20	822	119
Great Divide	Morse-Stockfarm	159	4	67	17
Great Divide	Morse-Stockfarm	161	2	63	12
Great Divide	Morse-Stockfarm	162	9	242	48
Great Divide	Morse-Stockfarm	181	19	702	104
Great Divide	Morse-Stockfarm	182	16	874	108
Great Divide	Morse-Stockfarm	183	28	842	151
Great Divide	Morse-Stockfarm	184	29	781	149
Great Divide	Morse-Stockfarm	185	24	554	111
Great Divide	Morse-Stockfarm	186	21	577	108
Great Divide	Morse-Stockfarm	187	19	628	105
Great Divide	Morse-Stockfarm	200	6	291	41
Great Divide	Morse-Stockfarm	201	23	780	121
Great Divide	Morse-Stockfarm	204	1	6	3
Great Divide	Morse-Stockfarm	230	6	147	29
		District totals	438	14085	2311
Eagle River-Florence	Lone Duck	2024	2	59	10
Eagle River-Florence	Lone Duck	2025	8	125	32
Eagle River-Florence	Lone Duck	2026	6	92	24
Eagle River-Florence	Lone Duck	2027	6	35	18
Eagle River-Florence	Lone Duck	2029	2	33	8
Eagle River-Florence	Lone Duck	2041	15	226	60
Eagle River-Florence	Lone Duck	2044	9	109	33
Eagle River-Florence	Lone Duck	2046	8	150	34
Eagle River-Florence	Lone Duck	2047	2	53	10
Eagle River-Florence	Lone Duck	2048	3	88	16
Eagle River-Florence	Lone Duck	2050	1	11	4
Eagle River-Florence	Lone Duck	2051	1	45	7
Eagle River-Florence	Lone Duck	2052	4	149	22
Eagle River-Florence	Lone Duck	2054	3	31	10
Eagle River-Florence	Lone Duck	2055	5	100	22

Eagle River-Florence	Lone Duck	2056	1	17	4
Eagle River-Florence	Lone Duck	2057	3	45	12
Eagle River-Florence	Lone Duck	2058	3	80	14
Eagle River-Florence	Lone Duck	2060	11	189	46
Eagle River-Florence	Lone Duck	2061	21	360	84
Eagle River-Florence	Lone Duck	2062	6	85	23
Eagle River-Florence	Lone Duck	2063	3	80	15
Eagle River-Florence	Lone Duck	2064	10	271	45
Eagle River-Florence	Lone Duck	2065	5	83	19
Eagle River-Florence	Lone Duck	2066	14	160	51
Eagle River-Florence	Lone Duck	2068	3	118	18
Eagle River-Florence	Lone Duck	2078	12	156	45
Eagle River-Florence	Lone Duck	2079	10	163	41
Eagle River-Florence	Lone Duck	2080	3	72	14
Eagle River-Florence	Lone Duck	2214	6	88	24
Eagle River-Florence	Lone Duck	2225	8	97	28
Eagle River-Florence	Lone Duck	2226	17	172	59
		District totals	211	3540	852
Washburn	Red Pine Rotation	15	1	12	4
Washburn	Red Pine Rotation	23	1	15	4
Washburn	Red Pine Rotation	37	2	292	21
Washburn	Red Pine Rotation	61	3	22	9
Washburn	Red Pine Rotation	63	1	104	10
Washburn	Red Pine Rotation	64	3	535	36
Washburn	Red Pine Rotation	65	2	83	12
Washburn	Red Pine Rotation	66	2	32	8
Washburn	Red Pine Rotation	67	1	13	4
Washburn	Red Pine Rotation	95	1	249	15
Washburn	Red Pine Rotation	110	1	22	5
Washburn	Red Pine Rotation	112	1	34	6
Washburn	Red Pine Rotation	122	1	10	3
Washburn	Red Pine Rotation	124	4	144	22
Washburn	Red Pine Rotation	134	1	14	4
Washburn	Red Pine Rotation	135	1	9	3
Washburn	Red Pine Rotation	136	1	43	7
Washburn	Red Pine Rotation	137	2	44	9
Washburn	Red Pine Rotation	140	1	5	3
Washburn	Red Pine Rotation	144	1	27	5
Washburn	Red Pine Rotation	145	1	101	9
Washburn	Red Pine Rotation	146	1	10	3
Washburn	Red Pine Rotation	147	1	16	4
Washburn	Red Pine Rotation	148	1	2	3
Washburn	Red Pine Rotation	149	1	4	3
Washburn	Red Pine Rotation	162	1	18	4
Washburn	Red Pine Rotation	179	3	243	24
Washburn	Red Pine Rotation	183	1	6	3
Washburn	Red Pine Rotation	184	2	14	6

Washburn	Red Pine Rotation	197	3	27	10
Washburn	Red Pine Rotation	198	5	112	23
Washburn	Red Pine Rotation	202	4	104	20
Washburn	Red Pine Rotation	204	5	241	31
Washburn	Red Pine Rotation	205	2	20	7
Washburn	Red Pine Rotation	206	3	12	9
Washburn	Red Pine Rotation	207	3	87	16
Washburn	Red Pine Rotation	208	2	127	16
Washburn	Red Pine Rotation	210	5	248	32
Washburn	Red Pine Rotation	211	1	205	14
Washburn	Red Pine Rotation	212	1	259	16
Washburn	Red Pine Rotation	215	1	74	8
Washburn	Red Pine Rotation	216	1	371	20
Washburn	Red Pine Rotation	217	3	236	23
Washburn	Red Pine Rotation	218	8	671	63
Washburn	Red Pine Rotation	219	4	414	36
Washburn	Red Pine Rotation	220	3	206	22
Washburn	Red Pine Rotation	221	2	119	14
Washburn	Red Pine Rotation	222	5	160	27
Washburn	Red Pine Rotation	223	7	541	55
Washburn	Red Pine Rotation	224	4	189	27
Washburn	Red Pine Rotation	227	1	8	3
		District totals	116	6554	741

Prescription Writing

Restoration Project B

Appendix A: Operating Plan

I. Project Description:

This project will write detailed forest management prescriptions to implement approved NEPA direction in selected stands, thereby moving stand conditions closer to the desired future conditions outlined in the 2004 Chequamegon-Nicolet National Forest Plan. The Forest Service intends to do the marking, sale prep, sale administration, reforestation, and associated activities on these units.

Prescriptions will be written using the attached 2015 Chequamegon-Nicolet Rx Template, incorporating all applicable Forest Plan Standards and Guidelines, as well as any additional requirements set forth in the project-level NEPA document.

On a yearly basis the Forest Service will identify forest stands and/or timber sales for which detailed silvicultural prescriptions are needed. Timber sale areas, due dates, and other details of the silvicultural prescriptions will be given to the State of Wisconsin annually. These sales will be marked, following approval of the silvicultural prescription, by either Forest Service timber markers or by contract timber markers.

II. Forest Service Shall:

- a) Provide the following items to the cooperator:
 - a. List of stands needing prescriptions.
 - b. Stand or sale area maps showing stand locations.
 - c. Project-level NEPA document (EIS, EA, or CE), along with decision document (FONSI, ROD, or DM), including a stand treatment table. Documents may be pdf, doc, xls, or hard copy as agreed upon.
 - d. 2004 Chequamegon-Nicolet National Forest Land and Resource Management Plan (Forest Plan), pdf or hard copy.
 - e. Most current stand-level records from FS Veg database for each stand, such as Live Tree Stocking Reports
- b) Review prescriptions and grant final approval if satisfactory. Authority to approve prescriptions is reserved for a Region 9 Certified Forest Service Silviculturist.

III. STATE Shall:

- a) Review existing stand data and imagery.
- b) Conduct field reconnaissance to evaluate factors not captured by the stand-level data such as:
 - a. Ephemeral ponds and riparian areas
 - b. Best access route
 - c. Quality and potential of the various stand components
 - d. Unique features of the stand
 - e. Etc.
- c) Write detailed prescription, including all fields on 2015 Chequamegon-Nicolet Rx Template:
 - a. Header
 - b. Stand information
 - c. Stand description

Prescription Writing

Restoration Project B

Appendix A: Operating Plan

- d. Desired condition
 - e. Short term objectives
 - f. Long term objectives
 - g. Marking guide
 - h. Design features and mitigation measures
 - i. Remarks
 - j. Reforestation activities
 - k. Stand map showing features referenced in Rx such as access, riparian zones, steep slopes, etc.
- d) Prescriptions shall incorporate all applicable Forest Plan Standards and Guidelines, as well as any additional requirements set forth in the project-level NEPA document.

IV. Goals:

- a) Produce complete prescriptions ready for hand-off to in-house or contract marking crews.
- b) Prescriptions should attempt to satisfy objectives of project-level NEPA documents.

V. Objectives:

- a) Maintain high-quality work while increasing volume offered and acres treated.
- b) Increase the pace and scale of forest restoration activities.

VI. Tasks and Timeline:

The stands for which prescriptions are needed, pertinent project-level NEPA documents, and required delivery dates for completed prescriptions, are summarized in Appendix C. Additional information is provided in district folders.

VII. Long Term Benefits:

Maintain or improve healthy forest conditions while providing forest products to local economy.

**Prescription Writing
Restoration Project B**

Appendix C: Statement of Work

The U.S. Forest Service has identified ten timber sales for which detailed silvicultural prescriptions are needed during calendar year 2019. These sales will be marked during FY 2020, either by Forest Service timber markers or by contract timber markers, and offered for sale in 2020 and 2021. Prescriptions for two of the sales are needed by June 30, 2019.

Prescriptions will be written using the 2015 Chequamegon-Nicolet Rx Template, incorporating all applicable Forest Plan Standards and Guidelines, as well as any additional requirements set forth in the project-level NEPA document.

The tasks and general timeline for this project are as follows:

DISTRICT	TIMBER SALE	PROJECT	STANDS	ACRES	NEEDED BY
Eagle River-Florence	Cody	Morgan Lake EA	15	341	6/30/2019
Eagle River-Florence	Scrap Iron	Morgan Lake EA	23	336	6/30/2019
Eagle River-Florence	Pudgie	Morgan Lake EA	9	179	12/31/2019
Medford-Park Falls	South Elk	Park Falls Hdwds EIS	9	561	12/31/2019
Medford-Park Falls	Elk Tooth	Park Falls Hdwds EIS	16	768	12/31/2019
Medford-Park Falls	Flint	Park Falls Hdwds EIS	5	492	12/31/2019
Medford-Park Falls	Elk Bone	Park Falls Hdwds EIS	8	562	12/31/2019
Great Divide	Phantom	Cheq Red Pine EA	19	560	12/31/2019
Great Divide	Cave Man	Cheq Red Pine EA	7	435	12/31/2019
Washburn	-	Cheq Red Pine EA	21	637	12/31/2019
TOTAL			132	4,871	

Agreement No. 15-GN-11091300-109
Coldwater Community Restoration and Maintenance
Restoration Project C

Appendix A: Operating Plan

I. Project Description: Restore and protect coldwater ecosystems, selected wild rice beds and infrastructure through beaver management.

II. FOREST SERVICE Shall:

- 1. Provide a list of streams that are to be targeted annually. Road/Infrastructure complaints will be called in on an as needed basis.
- 2. Provide maps for the fall beaver colony surveys.

III. STATE Shall:

- 1. Work with (through an agreement) USDA-Wildlife Services to provide beaver control/dam removal activities on CNNF lands.
- 2. Provide pilots/aircraft for the fall beaver colony surveys on the CNNF. Coordinate said flights with USDA-Wildlife Services. Provide map of colonies found to CNNF.
- 3. Allow CNNF personnel to communicate directly with USDA-Wildlife Services regarding beaver control activities on CNNF landbase.

IV. Goals:

- 1. Gain efficiency in the restoration and protection of coldwater stream systems.
- 2. Accomplish in-stream habitat improvement projects
- 3. Protect infrastructure (road-stream crossings, impoundments, etc).
- 4. Protect wild rice resources.

V. Objectives:

- 1. Maintain approximately 560 miles of free flowing streams on National Forest lands.

VI. Tasks and Timeline:

The tasks and general timeline for this project are as follows:

Time	Description
January	Review agreement with USDA-Wildlife Services for beaver control activities on CNNF lands. Share streams with USDA and DNR.

Spring	Beaver controls starts in the Spring.
October/Nov	Conduct fall beaver colony surveys (flights) in-coordination with USDA-Wildlife Services.
	Repeat program annually for 5 years.

VII. Long Term Benefits:

- a) Returns badly degraded systems to free-flowing condition through intensive beaver and dam removal, consistent and frequent annual surveying from the air and on the ground, and maintenance of the free-flowing systems through removal of dispersing and early colonizing beaver each year.
- b) Reduction in the number of agreements USDA-WS has to administer which would allow for lower administrative costs associated with the beaver management program. Reduction in cost may allow for some expansion of designated stream miles to better meet FS and WDNR objectives.
- c) Enables the forest service and WDNR to meet additional wildlife and fisheries objectives with its appropriations (USFS), grants and WDNR Trout Stamp-derived funding.

National Environmental Policy Act (NEPA) Compliance: A criteria for GNA Program Income projects is full NEPA compliance. All USDA-WS activities must be in compliance with NEPA. WS has developed an Environmental Assessment (EA) for all beaver management activities conducted in Wisconsin, and has a Finding of No Significant Impact (FONSI) on file. WS develops annual EA monitoring reports. All WS EA's can be found online.

Agreement No. 15-GN-11091300-109
Coldwater Community Restoration and Maintenance
 Restoration Project C

Appendix C: Project Area and Treatment Activities

I. Project Description: Restore and protect coldwater ecosystems, selected wild rice beds and infrastructure through beaver management.

Streamline the existing cooperative beaver management program among USFS, WDNR and USDA-WS, to 1) gain efficiency in the restoration and protection of coldwater stream systems, 2) accomplish in-stream habitat improvement projects, 3) protect infrastructure (road-stream crossings, impoundments, etc) and 4) protect wild rice resources.

Maintain approximately 560 miles of free flowing streams on National Forest lands.

II. Tasks and Timeline:

The tasks and general timeline for this project are as follows:

Time	Description
Jan 2019	Have signed agreement with USDA-Wildlife Services for beaver control activities on CNNF lands. Beaver controls starts in the Spring.
October/Nov 2019	Conduct fall beaver colony surveys (flights) in-coordination with USDA-Wildlife Services.

Agreement No. 15-GN-11091300-109
Botanical Surveys and Natural Area Site Visits
Restoration Project D

Appendix A: Operating Plan

I. Project Description:

Monitoring of existing rare plant populations, along with surveying, is also important, so the CNNF can determine whether species populations are increasing, decreasing, or stable. A large portion of CNNF rare plant populations are located in sensitive natural areas, which allows for more management flexibility outside these sites. In this project, known rare plant populations located in designated natural areas will be monitored. In addition, visits to natural areas will also provide a site 'check up' or monitoring data, documenting the condition of the site and making note of issues needing follow-up actions (such as invasive plants or unauthorized ATV use threatening the species populations). A handful of these sites (i.e. less than 20 total) are in need of some additional ecological (community) inventory. Those sites are identified in the more detailed annual statement of work (all are located on the Nicolet landbase of the CNNF).

Natural areas include (further details about these areas are outline in the CNNF Land and Resource Management Plan): Research Natural Areas, Special Management Areas, and Old Growth & Natural Feature Complexes, which are designated as Management Area 8E, 8F, and 8G, respectively. The State of Wisconsin has co-designated Management areas 8E and 8F as State Natural Areas.

Aquatic plants are an important indicator of water quality and aquatic ecosystem health. Traditionally, most aquatic plant surveys have occurred in larger lakes with boat ramps while smaller, less developed lakes have been under-sampled. For this project, a subset of lakes (mostly those adjacent to or within the boundary of natural areas) will receive an aquatic plant survey to document occurrence of native and non-native aquatic plants.

The CNNF will supply an annual statement of work that lists the specific sites/stands to be surveyed.

II. Forest Service Shall:

1. Provide basic site location data (e.g. like the maps attached) to allow the completion of the surveys and data gathering
2. Provide details concerning what data is to be gathered and in what formats
- 3.

III. STATE Shall:

1. Complete data gathering, surveying, or monitoring of plant species on sites or areas supplied by the CNNF and supply completed forms to the CNNF,
2. Maintain data quality standards supplied by the CNNF,
3. Promptly provide, to the CNNF, gathered notes outside of designated forms at the request of the CNNF,
4. Meet the survey needs of the CNNF.
- 5.

IV. Goals:

1. Conduct additional acreage of rare plant survey work to continue restoration goals of the CNNF and maintaining the implementation of the CNNF Land and Resource Management Plan.
2. Conduct site visits to designated natural areas (provide additional community inventory information on a subset sample) to determine condition and identify possible concerns.
3. Monitor or 'check-in' on known rare plant populations within designated natural areas to aid in determining species trends and to better inform restoration priorities going forward.
4. Conduct aquatic plant surveys (for native and non-native invasive species) in selected lakes within or adjacent to natural areas. This data will provide information to CNNF leadership and program leaders, better shaping future restoration priorities.

V. Objectives:

1. Conduct rare plant survey and inspections in natural areas
2. Conduct rare plant monitoring at known rare plant locations in Management Areas 8 E (Research Natural Area (RNA)), F (Special Management Area (SMA)), and G (Old Growth (OG))
3. Conduct aquatic plant (both native and non-native) surveys on smaller lakes, adjacent to or within the boundary of natural areas.

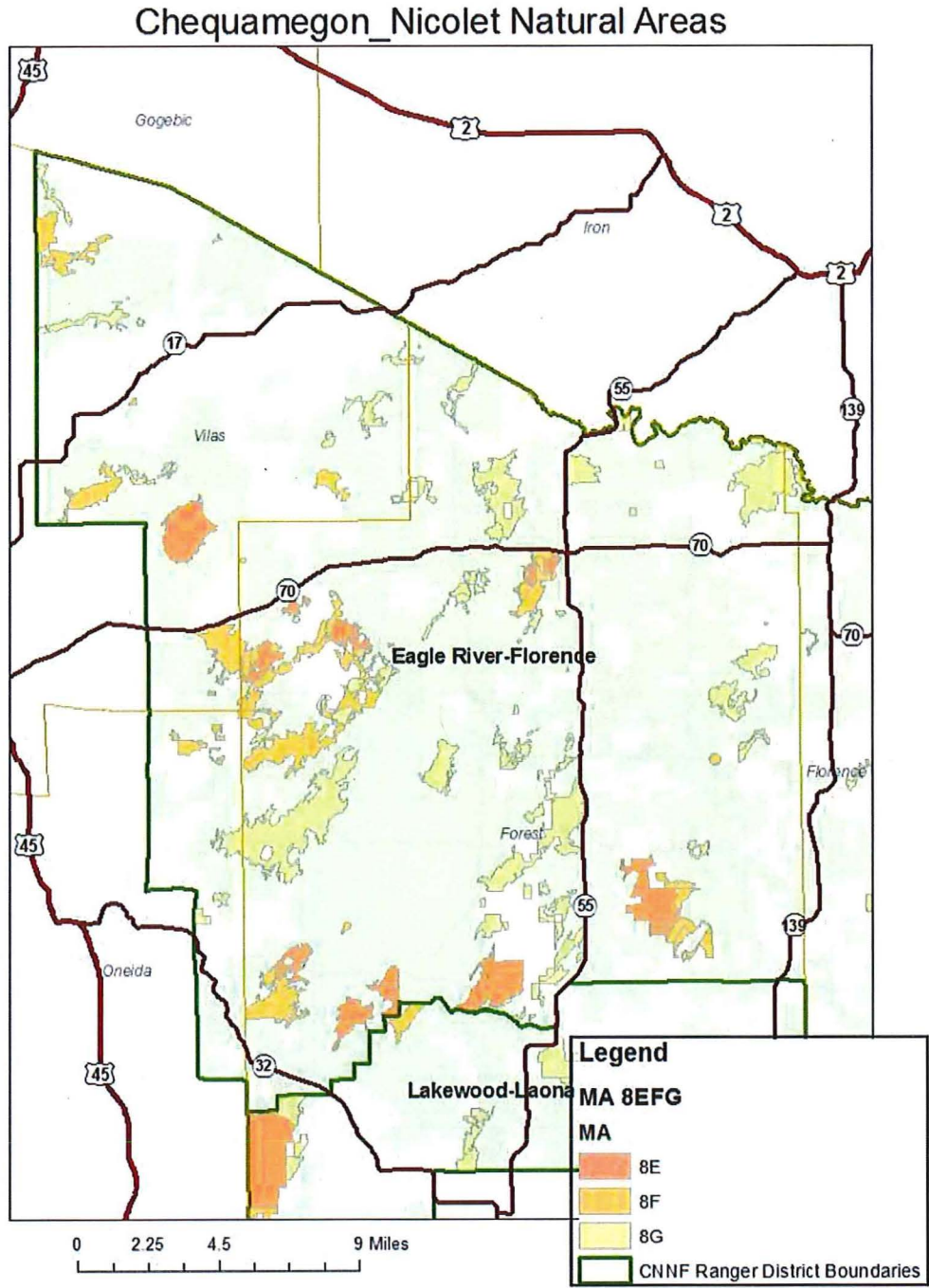
VI. Tasks and Timeline:

The tasks and general timeline for this project are as follows:

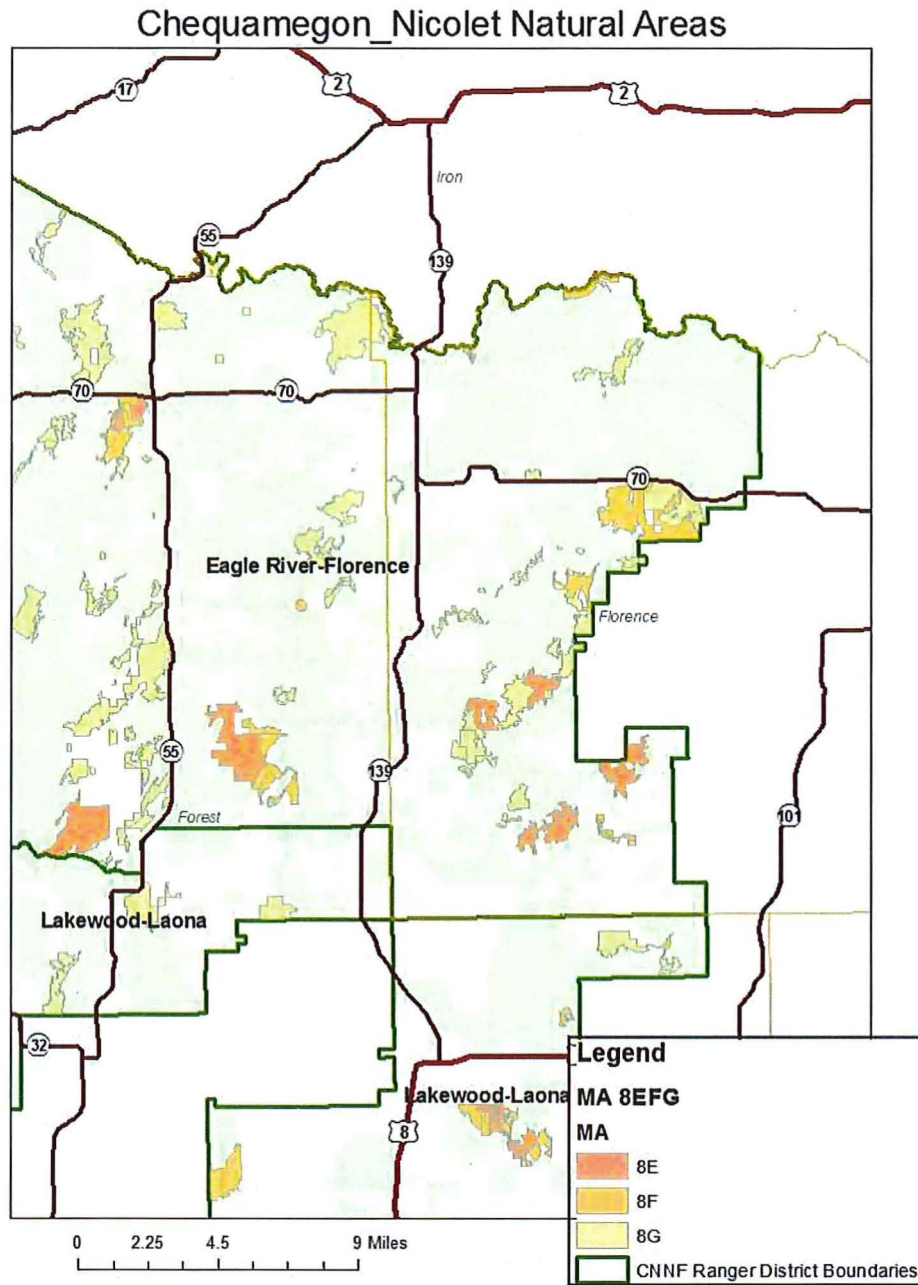
Time	Description
Winter/early Spring annually	Forest Service will determine which stands to survey and provide data and information to State
Late Spring/Summer/early Fall annually	Rare plant surveys and natural area inspections will be implemented.
December 31 st annually	Final Report due to the CNNF

VII. Long Term Benefits:

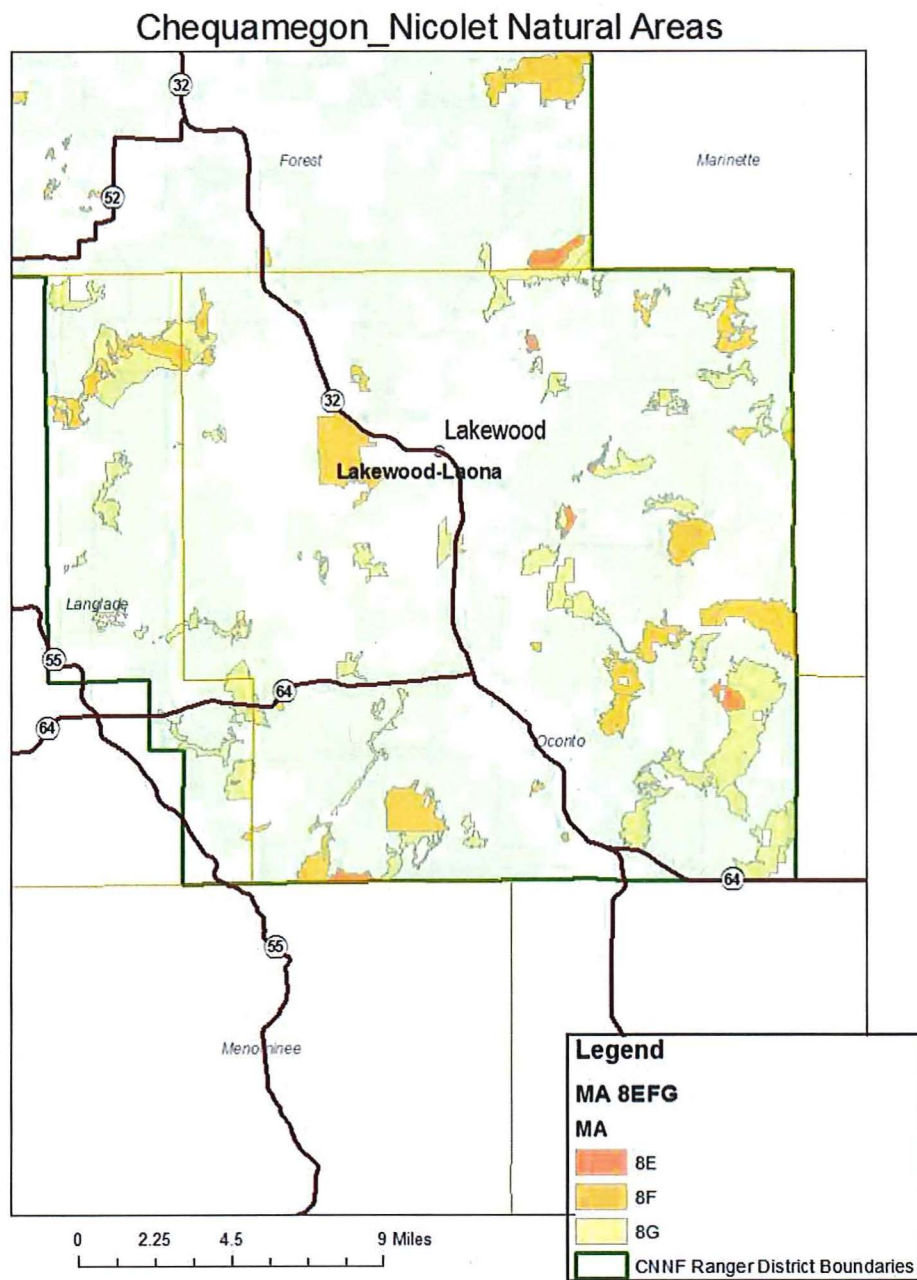
Long-term benefits include completed plant surveys allowing the further implementation of the CNNF Land and Resource Management Plan and its prescribed vegetative management goals and objectives. In addition, other long-term benefits include allowing increased monitoring of the CNNF's natural areas, known for housing rare plants. This information will aid in more efficiently prioritizing resource management efforts in CNNF's implementation of the Land and Resource Management Plan. For example, this information will aid the CNNF in managing rare plant populations and better understand where to efficiently supply efforts in treating non-native invasive plants.



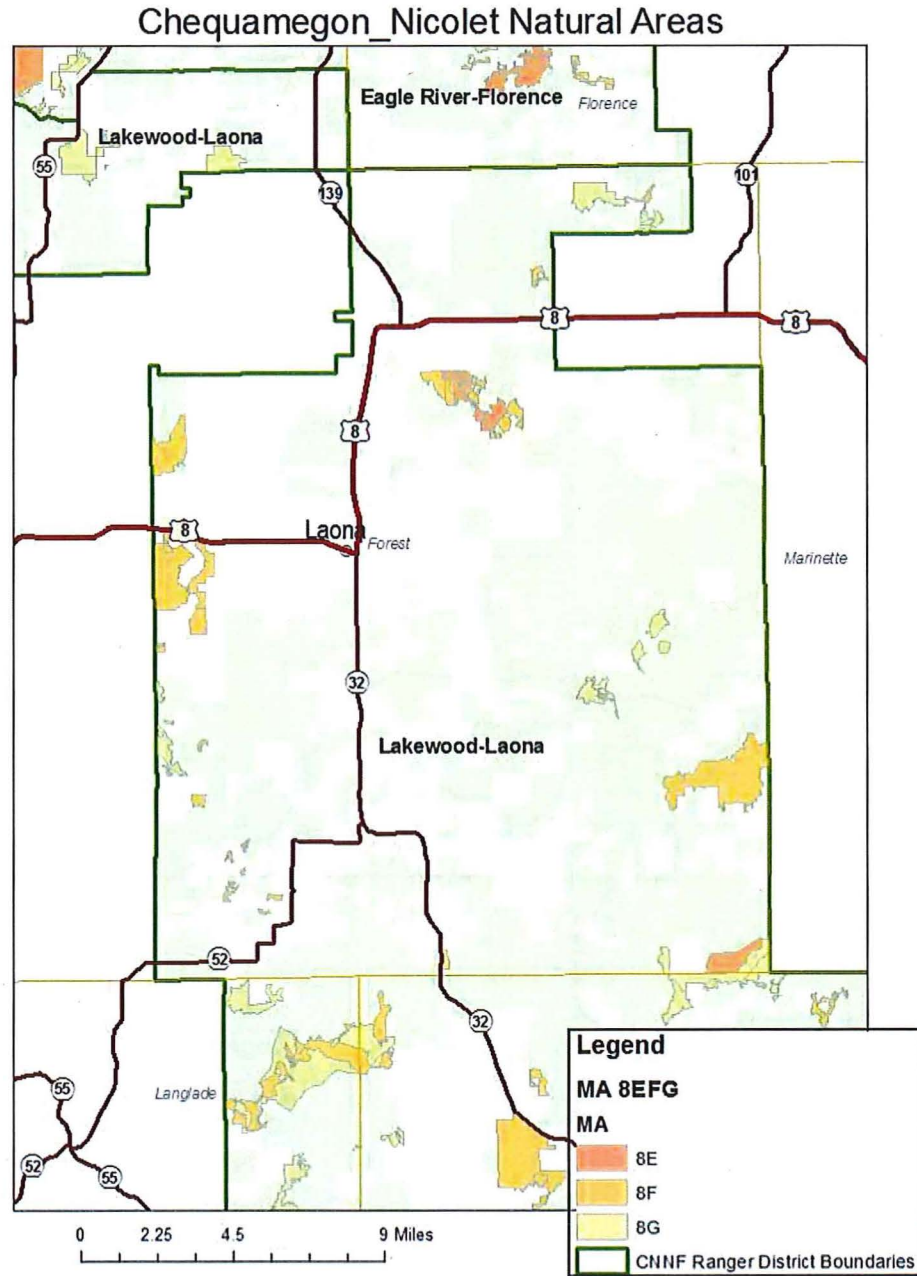
Map 1 – West side of the Eagle River Florence District with Management Area 8 areas.



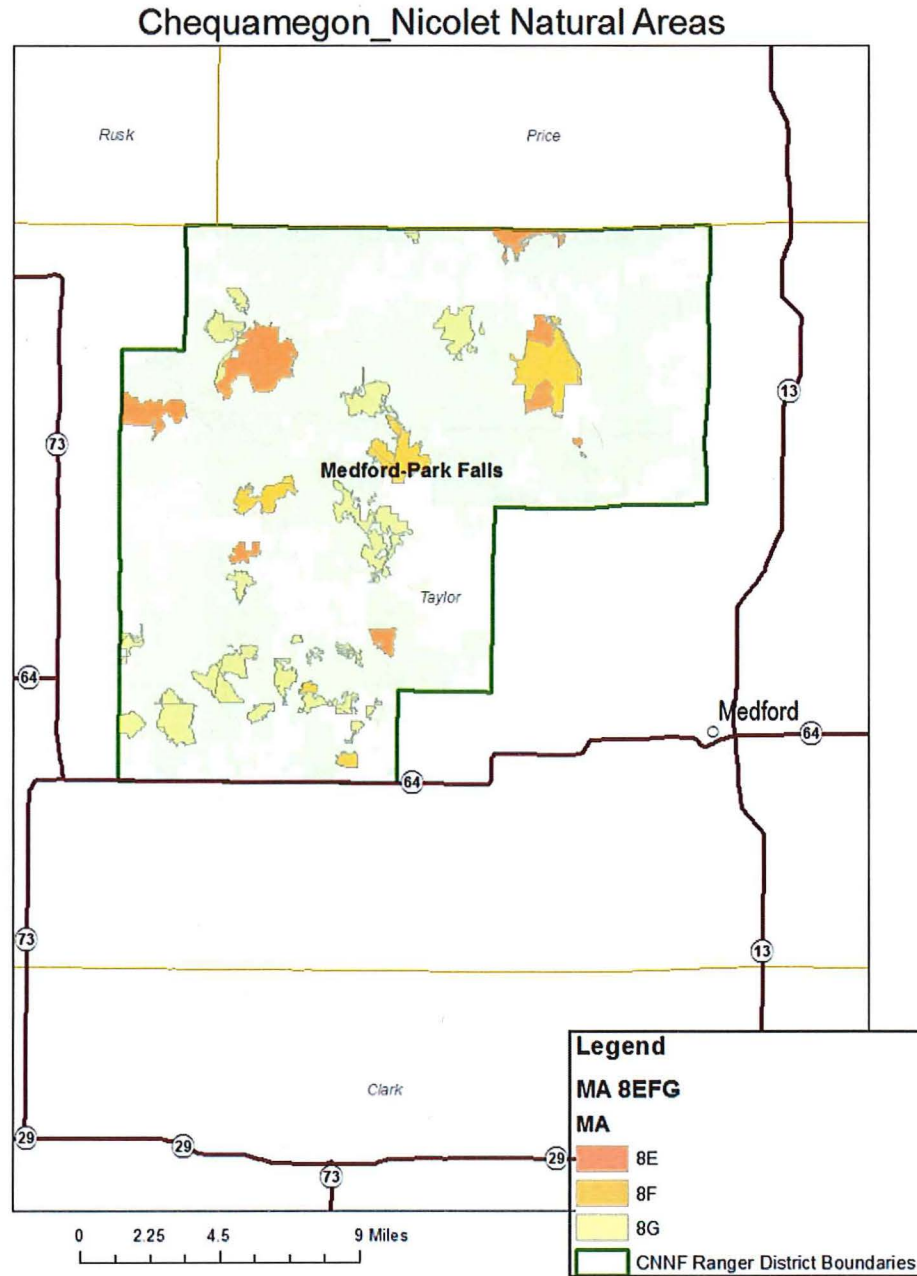
Map 2 – East side of the Eagle River Florence District with Management Area 8 areas.



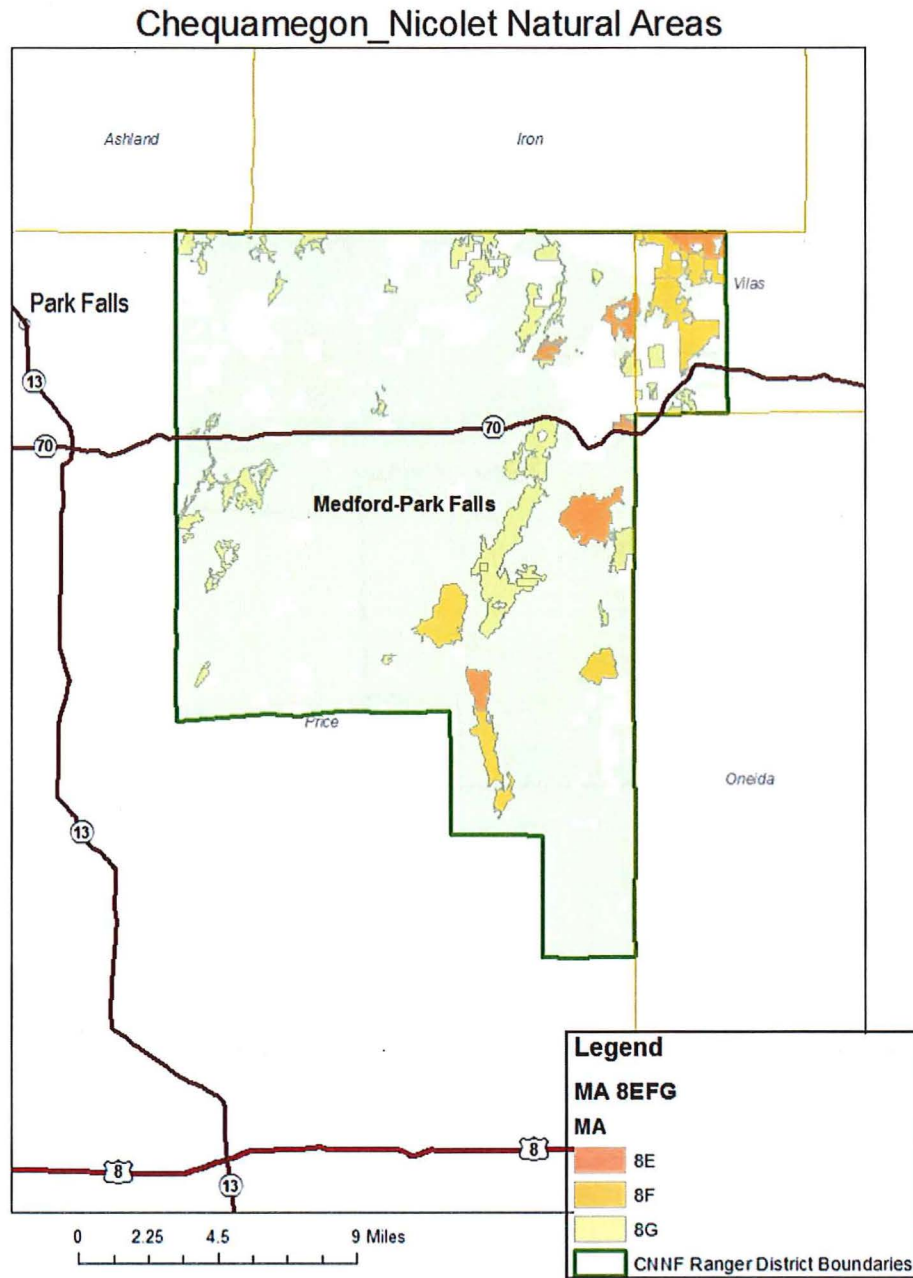
Map 3 – Natural areas of Lakewood unit of the Laona-Lakewood District (Management Area 8 areas)



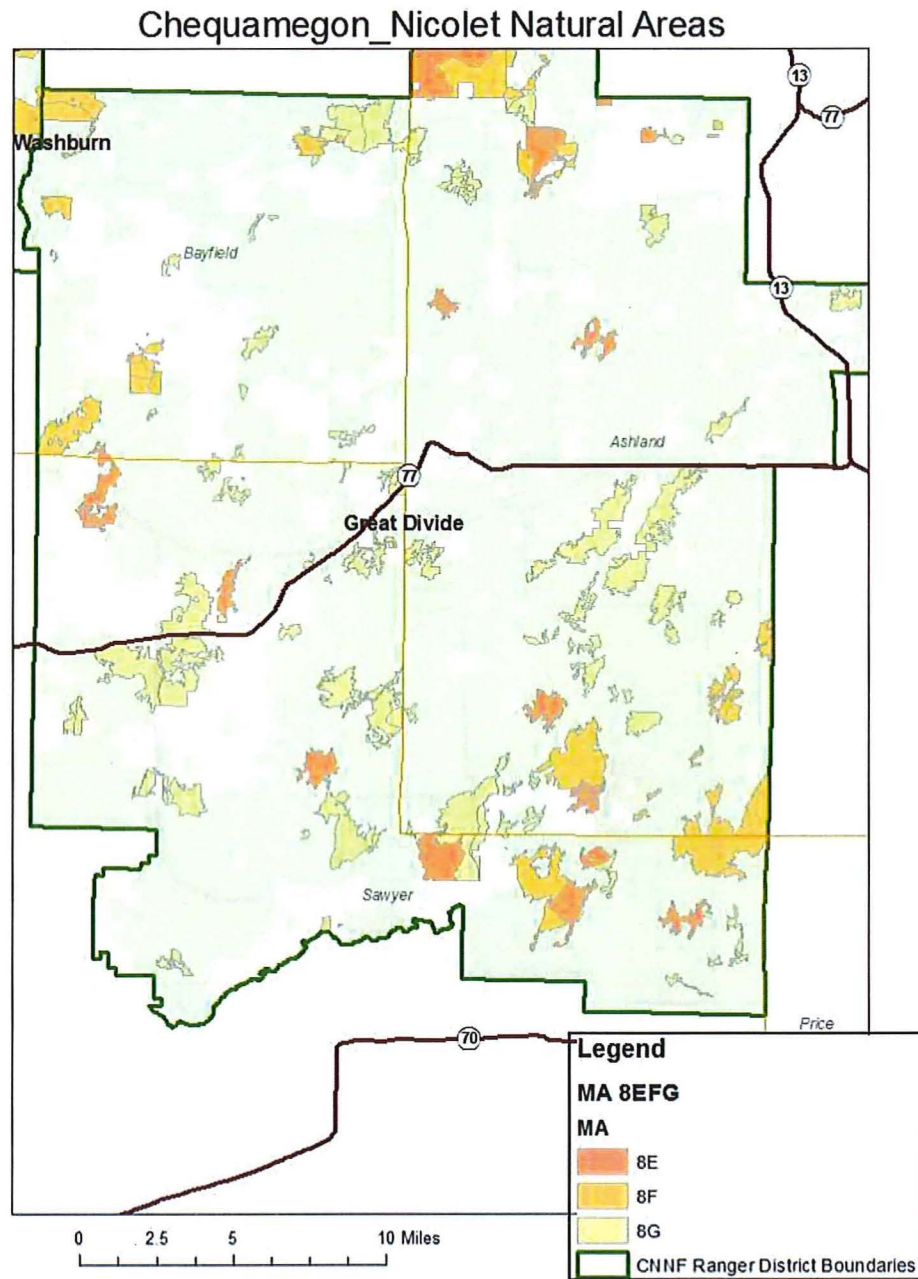
Map 4 – Natural areas of Laona unit of the Laona-Lakewood District (Management Area 8 areas)



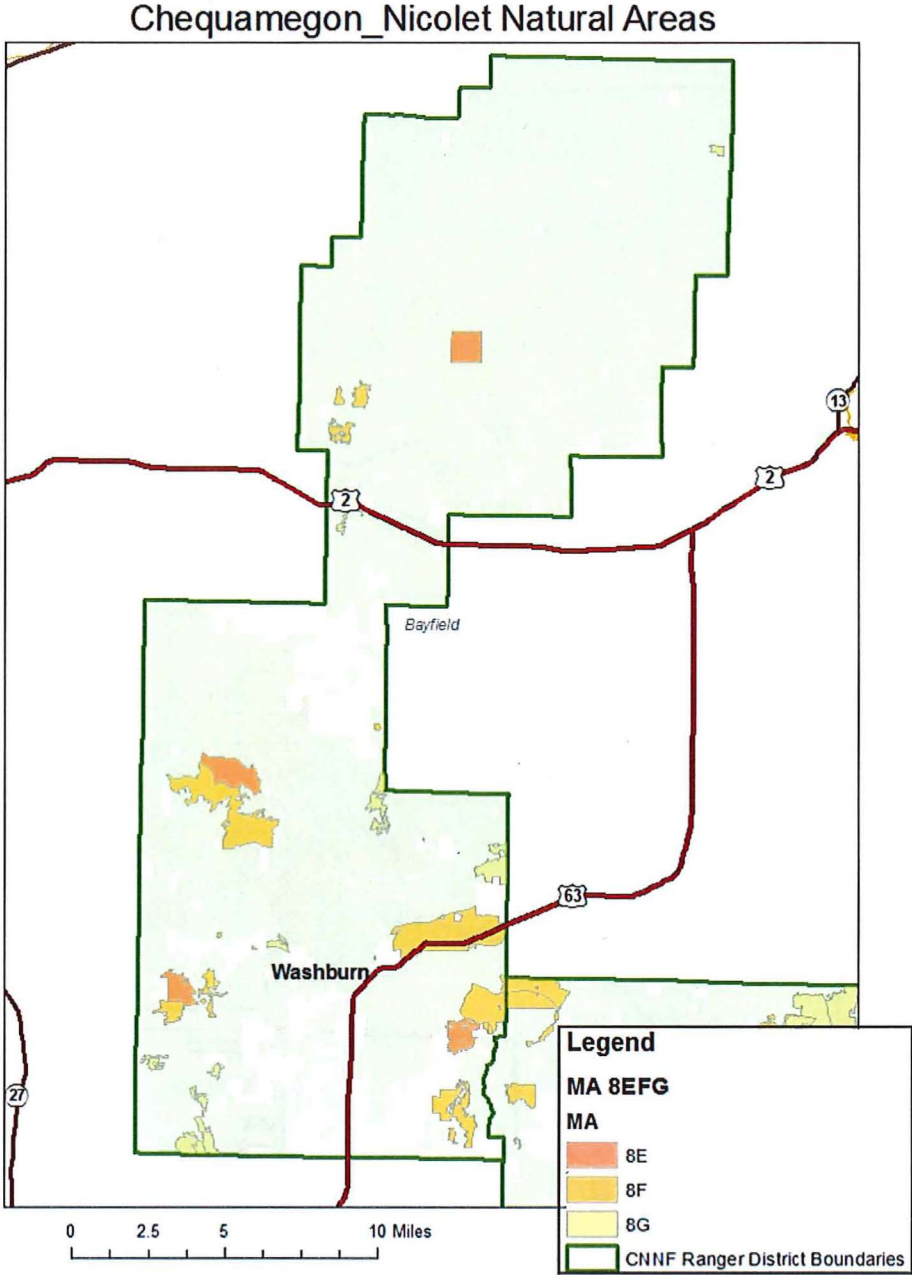
Map 5 – Natural areas of Medford unit of the Medford-Park Falls District (Management Area 8 areas)



Map 6 – Natural areas of Park Falls unit of the Medford-Park Falls District (Management Area 8 areas)



Map 7 – Natural areas of Great Divide District (Management Area 8 areas)



Map 8 – Natural areas of Washburn District (Management Area 8 areas)

Agreement No. 15-GN-11091300-109
Botanical Surveys and Natural Area Site Visits
 Restoration Project D
Appendix C: Statement of Work

Project list:

Item #	District	Project Description	Area	Cost Estimate
1	Eagle River-Florence	Rare Plant surveying/monitoring in Natural Areas (Management Area 8E, 8F, and 8G – Research Natural Areas, Special Management Areas, Old Growth areas), this includes the completion of a “check up” form at each natural area visited	56 natural areas with approximately 120 rare plant locations.	\$30,000

Project Description

1. Revisit known rare plant locations in natural areas and gather ‘check up’ data on the Eagle River-Florence Ranger District, i.e. determine the rare plant population status while also documenting natural area condition on a ‘check up’ form.
 - a. **Deadline for work:** December 31st, 2018
 - b. **The Chequamegon-Nicolet National Forest (CNNF) shall provide:**
 - i. Maps for Eagle River-Florence District natural areas (both site and locator maps),
 - ii. Rare plant trend information (2018 summary),
 - iii. List of rare plants that occur in the given natural areas,
 - iv. Geodatabase with rare plant occurrences,
 - v. Template/form for reporting natural area conditions (including the ‘check-up’ forms),
 - vi. Past natural area ‘check-up’ forms for reference,
 - vii. Maps and/or shapefiles of timber sale areas to be surveyed, and
 - viii. Provide a USFS Yale key (requires the State or their representative to sign a USDA-Forest Service Personal Custody Property Receipt and acknowledge financial responsibility for the value of items lost or damaged).
 - c. **The STATE shall:**
 - i. Complete ‘check up’ forms for each site visited in the Eagle River-Florence District,
 1. The focus of these forms is to identify any disturbances, particularly from human use but also natural disturbances, such as windthrow.
 - ii. Complete rare plant reports on any CNNF sensitive species visited in the survey year, including any previously unknown populations,
 - iii. Complete rare plant forms, designed by Natural Heritage Conservation, on the sites given to them by the CNNF,
 - iv. Provide the CNNF (when possible the Forest Ecologist) with a survey plan prior to doing field surveys.
 - v. Conduct surveys on a controlled intuitive or meander basis, crisscrossing the stands while detouring to the most likely habitats for listed plants.

Agreement No. 15-GN-11091300-109
Botanical Surveys and Natural Area Site Visits
Restoration Project D

Appendix C: Statement of Work

- vi. Provide a list of plant species found within the survey area and summarize the characteristics (habitat, structure, unique features, disturbance, etc.) of the survey area
- vii. Record and provide survey routes of the project area by providing either topographic maps with routes delineated and dated or tracking files from a GPS unit.
- viii. Photograph and record on the Wisconsin Natural Heritage Inventory (WI NHI) form rare plant populations. This shall include information regarding the plant identity, number of individuals in the population, phenological /growth stage, legal description of the site, precise location (GPS), area of coverage by the population, and habitat characteristics.
- ix. Document and record, with a GPS unit, any observations of the weeds listed on the NNIS Inventory form.
- x. Document and report any unusual sightings such as large stick nests, artifacts or heritage sites (that are not already marked with flagging or in obvious ways), or other special features.
- xi. Submit a report summarizing the results of the field surveys. One electronic copy of the report shall be submitted to the CNNF. The electronic copies shall be in Microsoft Word (doc, docx), Microsoft Excel (xls,xlsx.), pdf formats, or similar.
- xii. Submit a report of all the information requested on the attached forms summarizing the results of the field surveys. One set of forms shall be completed for each project area/sale area. Field versions shall be copied onto a final version, in ink or typed at the contractor's choice (electronic versions of forms are available).
- xiii. Report survey progress to the CNNF (when possible to the Forest Ecologist) on a regular basis (specific schedule will be agreed upon by both parties before surveys are executed) with a report of days and time spent in the field,
- xiv. Report any new location of rare plants to the CNNF (when possible the Forest Ecologist) as soon as possible (ideally within 4 business days or previously agreed upon time schedule). This report shall include the plant identity, number of individuals, phenological /growth stage, legal description of the site, precise location using GPS, area of coverage by the population, and habitat characteristics.),
- xv. Verify identification of all rare plant species by comparison with regional herbarium collection and/or consultation with CNNF botanical experts as needed,
- xvi. Provide 2-3 good quality color slides or digital photographs of each rare plant taxon located, with at least one showing the plant in detail and one showing the plant in its habitat, and
- xvii. Voucher any plant specimens collected and a labeled herbarium sheet of the vouchered specimen shall be forwarded to the University of Wisconsin Herbarium.

Agreement No. 15-GN-11091300-109
Botanical Surveys and Natural Area Site Visits
Restoration Project D

Appendix C: Statement of Work

d. Further Details of Work:

- i. The State will visit natural areas on the Eagle River-Florence District of the CNNF. There are two objectives for this work. The first objective is to complete the 'check-ups' for each natural area, focusing on identifying disturbances (natural or anthropogenic) to the sites. The second objective is to revisit known rare plant populations throughout the district and document these observations on NHC's rare plant reporting forms. Because surveys will begin in late July-early August, it will not be possible to search for multiple species that flower earlier in the year; thus, only rare plant populations that can still be identified will be surveyed. The remaining plants will be surveyed in the spring/early summer of 2019.

e. Any sideboards or restrictions (what not to do):

- i. The State shall not submit all detailed ecological notes on each site visited to CNNF, unless specifically requested.
- ii. The State shall only survey the 56 sites in the Eagle River-Florence District that were included "Eagle River Florence 8EFG Monitoring List" document submitted to the State.

f. Points of contact:

- i. Kevin Doyle (NHC), 608-416-3377 KevinF.Doyle@Wisconsin.gov, Department of Natural Resources, Madison, WI 53703
- ii. Linda Parker (CNNF), 715-762-5169, lrparker@fs.fed.us, 1170 4th Avenue S., Park Falls WI 54555.

Agreement No. 15-GN-11091300-109
Botanical Surveys and Natural Area Site Visits
Restoration Project D

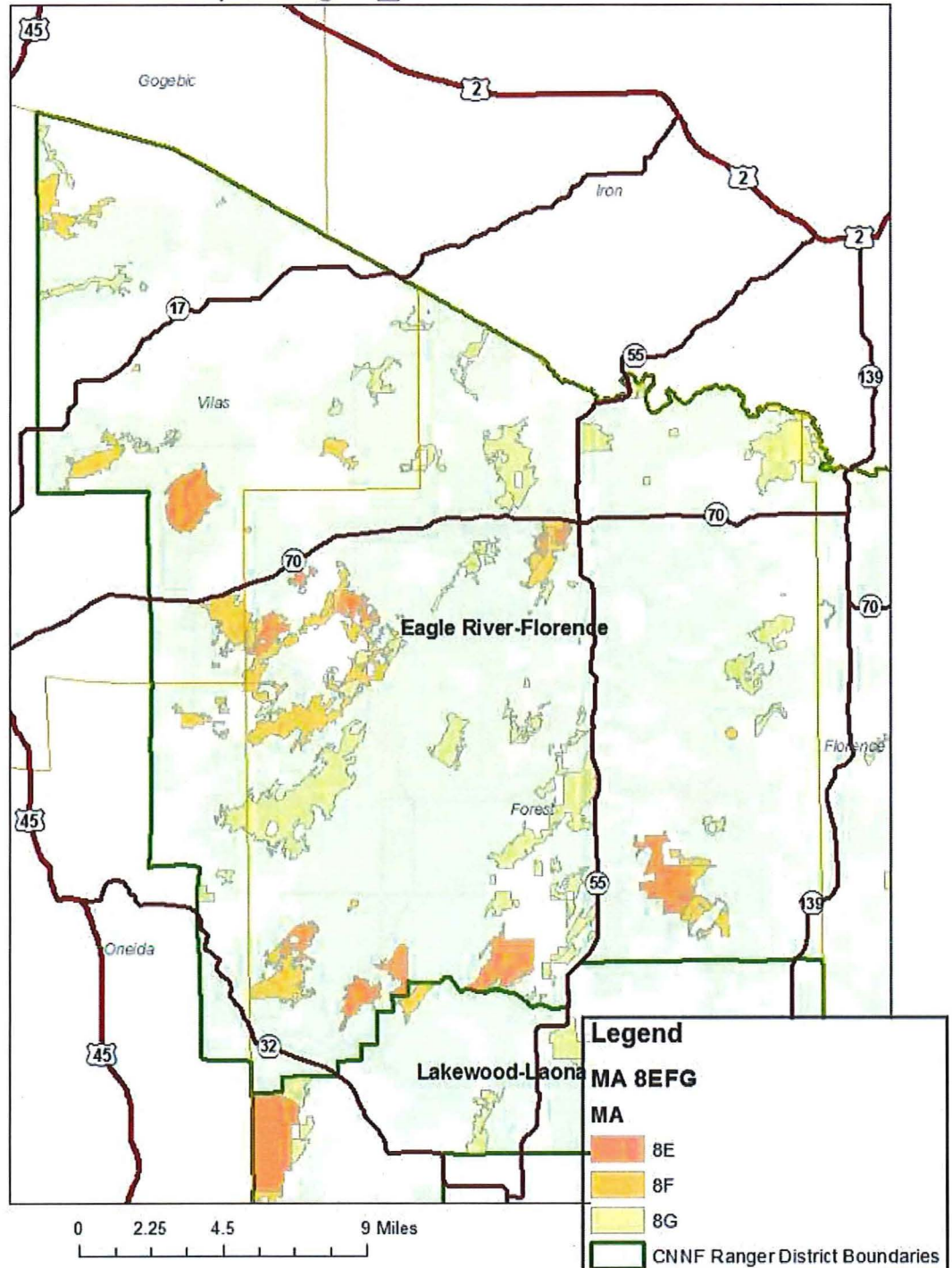
Appendix C: Statement of Work

B. Location of natural areas on ERFL

Agreement No. 15-GN-11091300-109
Botanical Surveys and Natural Area Site Visits
Restoration Project D

Appendix C: Statement of Work

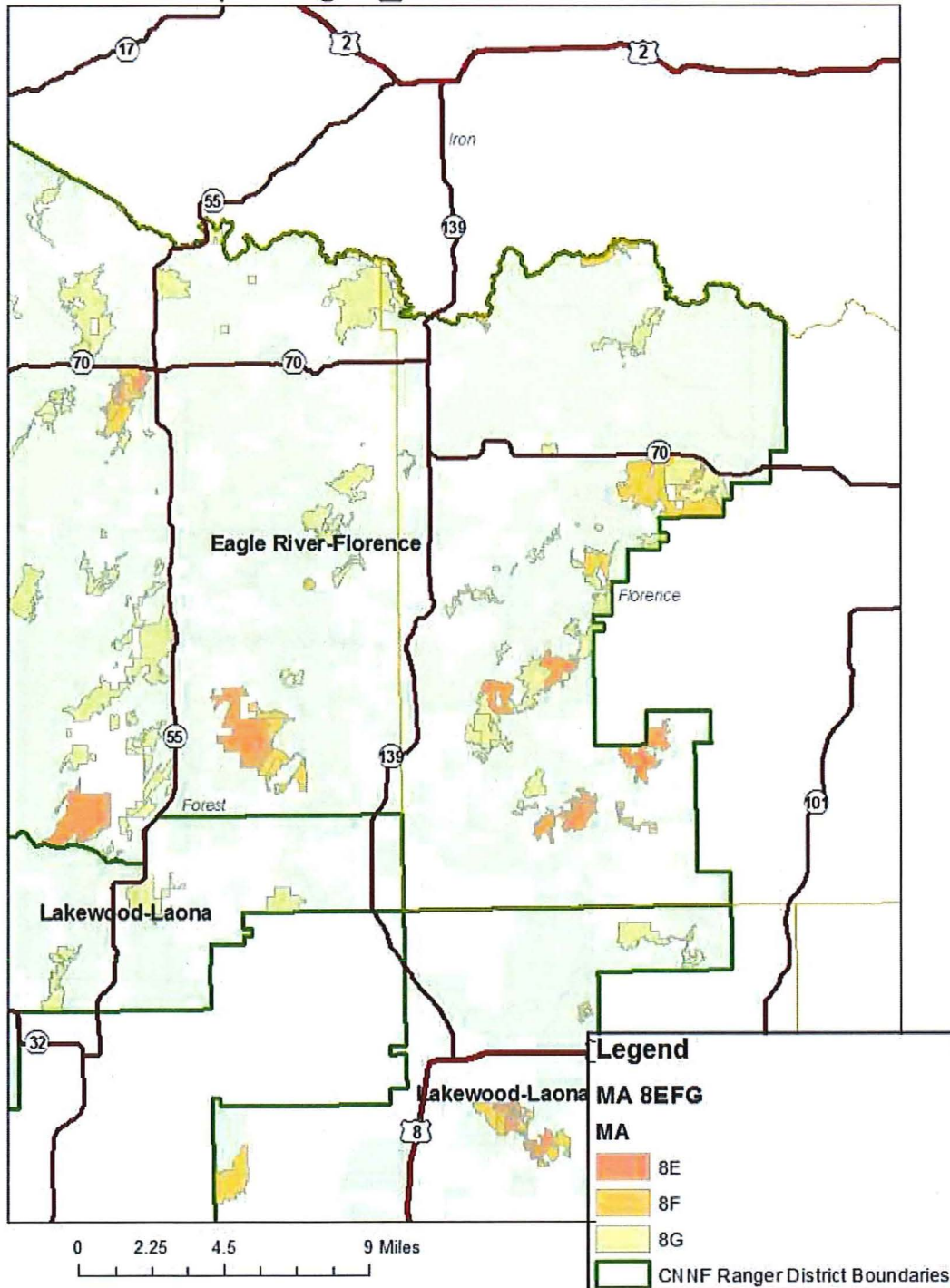
Chequamegon_Nicolet Natural Areas



Agreement No. 15-GN-11091300-109
Botanical Surveys and Natural Area Site Visits
Restoration Project D

Appendix C: Statement of Work

Chequamegon_Nicolet Natural Areas



Attachment: Exhibit B

USFS Agreement No.: 15-GN-11091300-109
 Cooperator Agreement No.:

Mod. No.: Year 4

Financial Plan Matrix: Note: All columns may not be used. Use depends on source and type of contribution(s).

COST ELEMENTS	FS CONTRIBUTIONS		STATE CONTRIBUTIONS + PI		(e) Total
	(a4) Noncash	(b) Cash to State	(c) Noncash	(d4) PI (from FS tbr) Project Costs	
Direct Costs					
Salaries/Labor	\$79,675.00	\$0.00	\$0.00	\$0.00	\$79,675.00
Travel	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Other	\$12,405.50	\$0.00	\$0.00	\$0.00	\$12,405.50
Supplies/Materials	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Contracting	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Subtotal	\$92,080.50	\$0.00	\$0.00	\$0.00	\$92,080.50
Coop Indirect Costs		\$0.00	\$0.00	\$0.00	\$0.00
FS Overhead Costs	\$7,366.44				\$7,366.44
Total	\$99,446.94	\$0.00	\$0.00	\$0.00	\$99,446.94
Total Project Value:					\$99,446.94

WORKSHEET FOR

FS Non-Cash Contribution Cost Analysis, Column (a4)

Use this worksheet to perform the cost analysis that supports the lump sum figures provided in the matrix. NOTE: This worksheet auto populates the relevant and applicable matrix cells.

Cost element sections may be deleted or lines may be hidden, if not applicable. Line items may be added or deleted as needed. The Standard Calculation sections provide a standardized formula for determining a line item's cost, e.g. $\text{cost/day} \times \# \text{ of days} = \text{total}$, where the total is calculated automatically. The Non-Standard Calculation sections provide a write-in area for line items that require a calculation formula that is other than the standardized formulas, e.g. instead of salaries being calculated by $\text{cost/day} \times \# \text{ of days}$, costs may be calculated simply by a contracted value that is not dependent on days worked, such as $1 \text{ employee} \times \$1,200/\text{contract} = \$1,200$. Be sure to review your calculations when entering in a Non-Standard Calculation, and provide a brief explanation of units used to make calculation, e.g. '1 month contract,' on a line below the figures.

Salaries/Labor

Standard Calculation

Job Description	Cost/Day	# of Days	Total
Forest Silviculturist (Overhead/Accomplish)	\$416.00	5.00	\$2,080.00
District Silviculturist (Rx Review)	\$335.00	35.00	\$11,725.00
District TMA (Contract Review/Outyear Pla	\$335.00	25.00	\$8,375.00
Program Database Inputs (Accomplishmer	\$280.00	35.00	\$9,800.00
Appraisal/Billing/Harvest Reporting	\$280.00	15.00	\$4,200.00
Quality Control/Monitoring	\$1,600.00	3.00	\$4,800.00
Quality Control Walkthroughs	\$280.00	5.00	\$1,400.00
Program Management Resource work	\$416.00	30.00	\$12,480.00
Program Management Agreements	\$375.00	20.00	\$7,500.00
Data/File Sharing and Preparation	\$280.00	8.00	\$2,240.00
Implementation Resource Review/Outyear	\$335.00	35.00	\$11,725.00
Assessment/Identification of Project Area	\$335.00	10.00	\$3,350.00
	\$0.00		\$0.00
			\$0.00

Non-Standard Calculation

Total Salaries/Labor

\$79,675.00

Travel

Standard Calculation

Travel Expense	Employees	Cost/Trip	# of Trips	Total
				\$0.00
				\$0.00

Non-Standard Calculation

Total Travel

\$0.00

Equipment

Standard Calculation

Piece of Equipment	# of Units	Cost/Day	# of Days	Total
Fleet	5.00	\$28.85	86.00	\$12,405.50

\$0.00

Non-Standard Calculation

Total Equipment **\$12,405.50**

Supplies/Materials

Standard Calculation

Supplies/Materials	# of Items	Cost/Item	Total
			\$0.00
			\$0.00

\$0.00

\$0.00

Non-Standard Calculation

Total Supplies/Materials **\$0.00**

Other

Standard Calculation

Item	# of Units	Cost/Unit	Total
			\$0.00

\$0.00

Non-Standard Calculation

Total Printing **\$0.00**

Contracting

Standard Calculation

Item	# of Units	Cost/Unit	Total
			\$0.00
			\$0.00

\$0.00

\$0.00

Non-Standard Calculation

Total Other **\$0.00**

Subtotal Direct Costs

\$92,080.50

Forest Service Overhead Costs

Current Overhead Rate	Subtotal Direct Costs		Total
8.00%	\$92,080.50		\$7,366.44
Total FS Overhead Costs			\$7,366.44

8.00%

\$92,080.50

\$7,366.44

Total FS Overhead Costs **\$7,366.44**

TOTAL COST

\$99,446.94

Program Income Project Cost Analysis, Column Yr4 (d4)

Program Income Carry over		-\$1,225,521.22
Program Income	Estimates	Actuals
Timber Value Received	\$3,000,000.00	\$0.00
NFF Payment	\$10,000.00	\$0.00
KV Fund Payments	\$0.00	\$0.00
Local Road Aid Payments	\$12,000.00	\$0.00
SUBTOTAL	\$22,000.00	\$0.00
Proram Income Earned	\$2,978,000.00	\$0.00

GNA Timber Expenses

Salaries (FTE & LTE)	\$405,000.00	
Fringe (FTE & LTE)	\$200,000.00	
Total DNR Salaries/Labor	\$605,000.00	
DNR Travel	\$10,000.00	
DNR Supplies & Services	\$30,000.00	
Contracting Expenses	\$85,000.00	
Other	\$80,000.00	

TOTAL COST	\$810,000.00	\$0.00
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Program Income Projects

Salaries (FTE & LTE)	\$37,000.00	
Fringe (FTE & LTE)	\$12,900.00	
Total DNR Salaries/Labor	\$106,900.00	
DNR Travel	\$26,000.00	
DNR Supplies & Services	\$7,000.00	
Contracting Expenses	\$260,000.00	
Other	\$0.00	

TOTAL COST	\$399,900.00	\$0.00
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Program Income Balance	\$542,578.78	-\$1,225,521.22
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