



Compartment Review Presentation

Gwinn Forest Management Unit

Compartment 32089

Entry Year 2023

Acreage: 1,250

County Marquette

Management Area: North Menominee Moraines

Revision Date: 2021-08-03

Stand Examiner: Eric Brolin

Legal Description:

T42N R26W Sec(s) 11,12,14,15,22,23,36

Identified Planning Goals:

To improve the quality and diversity of State forests and wildlife through proper habitat management, while protecting the riparian values of our wetlands and waters.

Soil and topography:

Topograph is level to sloping. Soils are mostly well drained loams and associated organic soils with a small amount of well drained loams and excessively drained sands. Major soil associations include Onaway, Carbondale, Tacoosh, and Angelica with some Trenary, Kalkaska, Munising and Keweenaw.

Ownership Patterns, Development, and Land Use in and Around the Compartment:

State ownership is fragmented in this compartment with much of the adjacent land in corporate ownership. Scattered private holdings also abut state land in several locations.

Unique Natural Features:

Potential for osprey, eagle, and great blue heron rookery. Potential for redshouldered hawk. Potential for moose and wolf. Potential for wood turtle all along Ford River. Potential for rapids cluption and splendid clubtail (dragonflies) along Ford River. Potential for round-leaved orchis, calypso, ram's head lady's slipper, marsh grass-of-Parnassass, and limestone oak fern in Cedar Swamps. Potential for purple clematis in dry-mesic conifer stands. Potential for Assiniboia sedge and goblin moonwort in mature northern hardwoods.

Archeological, Historical, and Cultural Features:

N/A

Special Management Designations or Considerations:

N/A

Watershed and Fisheries Considerations:

This compartment is divided into six sections that contain the Ford River, Tom Doe Creek, and Elie Creek. The Ford River is designated a Type 4 trout stream greater than 50' width and has a predicted mean July temperature of 69.3 °F (cool stream). 100' plus 5' per 1% increase in slope; buffers are recommended for the Ford River to protect riparian areas in accordance with Best Management Practices. Tom Doe Creek and Elie Creek are non-designated streams less than 50' width and have a predicted mean July temperature than ranges from 63.0 to 64.0 °F (cold streams). 100' plus 5' per 1% increase in slope; buffers are recommended for Tom Doe Creek and Elie Creek to protect riparian areas in accordance with Best Management Practices.

Wildlife Habitat Considerations:

Compartment 089 is found within the North Menominee Management Area; which is a Drumlinized Ground Moraine in north Menominee and south Marquette Counties. The State Forest covers about 20,300 acres and is in scattered blocks. The dominant natural communities are poor conifer swamps and mesic northern forests. Major forest cover types include cedar, aspen, and mixed lowland conifer. In general, this area has a mid-range site quality. This management area provides multiple benefits to the public including forest products, dispersed recreational activities, and habitat for fish and wildlife species. Over half of the area is lowland conifer cover type (cedar, spruce, tamarack) interspersed with uplands of aspen and northern hardwoods. Historically this management area has been important deer winter range. Some of the most significant wildlife management issues in the management area are: habitat fragmentation; coarse woody debris; large living and dead standing trees (for cavities); mesic conifer (in a broad array of age classes); mature forest; early successional forest (jack pine, mixed swamp conifer, tag alder, and aspen); and deer wintering habitat.

The following have been identified as featured species for the North Menominee Management Area: American marten, snowshoe hare, and white-tailed deer.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of medium-textured glacial till. The glacial drift varies between 10 and 50 feet. The Ordovician Prairie du Chien Group and Cambrian Trempealeau Formation subcrop below the glacial drift. These formations could be used for stone. Gravel pits are located in the compartment, and potential appears to be good. Abandoned iron mines are located ten miles to the west, and Sections 11 and 17 were previously leased. There is no economic oil and gas production in the UP.

Vehicle Access:

Very good from the Ford River Road and numerous two-tracks except for section 36 which is blocked by gated private land.

Survey Needs:

Possible survey needs for timber management.

Recreational Facilities and Opportunities:

Demand for deer, grouse, and woodcock hunting is very high. Also, there is some fair fishing in the Ford River.

Fire Protection:

Low to moderate wildfire potential.

Additional Compartment Information:

The following reports from the Inventory are attached:

- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

The following information is displayed, where pertinent, on the attached compartment maps:

- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Report 1 – Total Acres by Cover Type and Age Class



Age Class

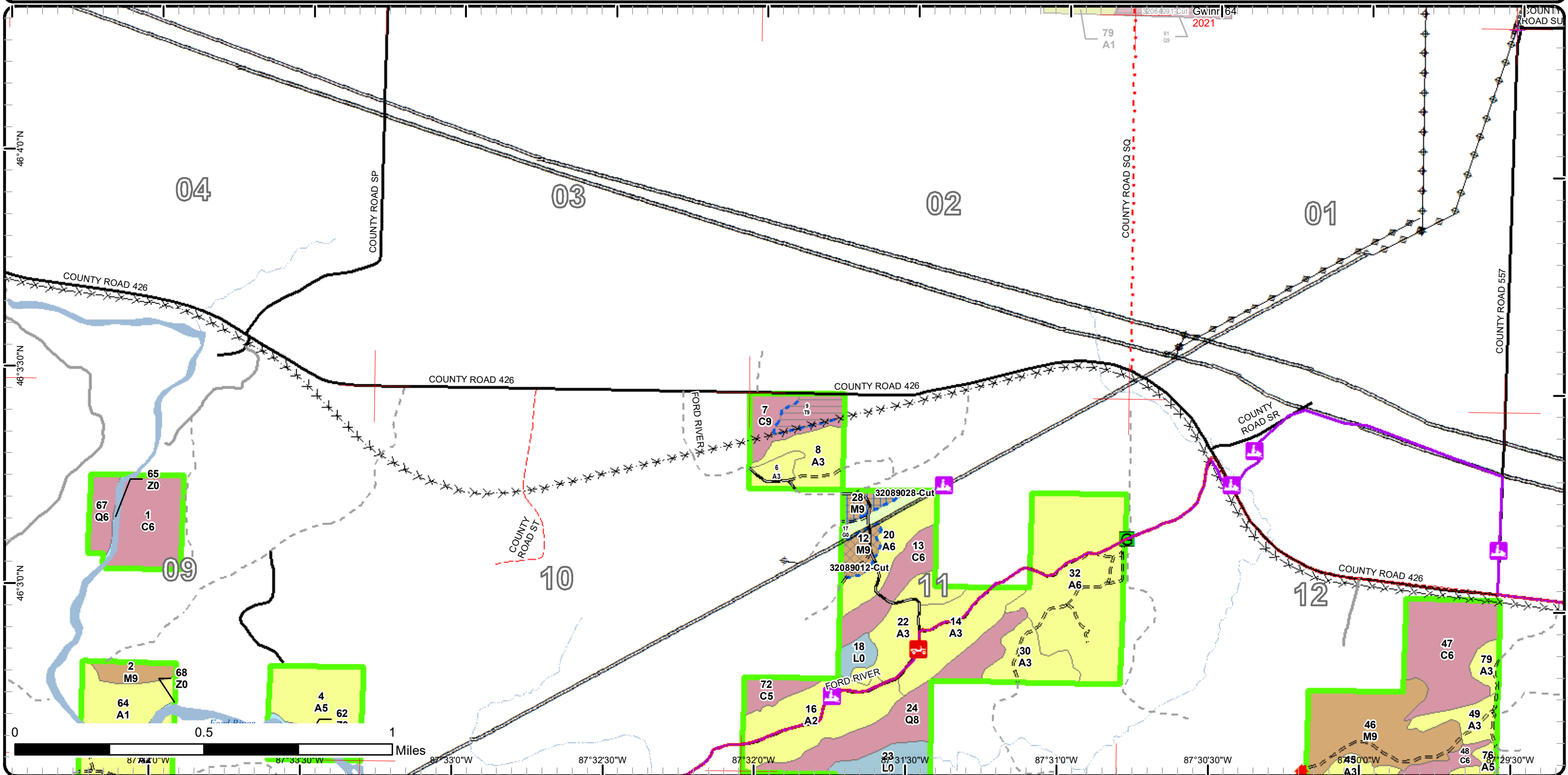
	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	194	82	111	208	66	36	0	4	0	0	0	0	0	0	0	0	0	701
Cedar	0	0	0	0	0	0	0	0	0	0	11	65	76	74	0	0	0	0	225
Herbaceous Openland	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Low-Density Trees	27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	27
Lowland Conifers	0	0	0	0	0	0	0	0	0	0	0	0	34	9	0	0	0	0	43
Lowland Shrub	39	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	39
Lowland Spruce/Fir	0	0	0	0	0	0	22	0	0	0	0	0	0	0	0	0	0	0	22
Northern Hardwood	0	0	0	0	0	0	8	0	0	0	0	125	0	0	0	0	0	0	133
Tamarack	0	0	0	0	0	0	0	0	0	0	9	0	0	0	0	0	0	0	8
Upland Conifers	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0	0	24
Water	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23
Total	94	194	82	111	208	66	66	0	4	0	20	190	134	83	0	0	0	0	1250

Cover Type & Treatments Map

Compartment: 89
 T42N,R26W, Sec. 9, 11,12, 14,
 15, 22, 23
 County: Marquette
 Unit: Gwinn
 Mgmt Area: North Menominee
 Moraines
 YOE: 2023
 Acres: 1250 GIS Calculated
 Examiner: Eric Brolin
 Map Revised: 8/20/2021
 Map Phase: Review

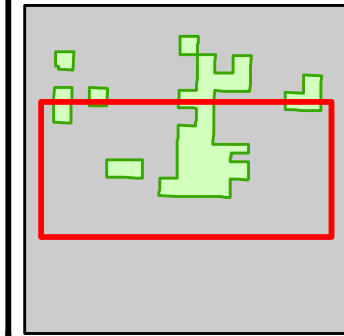


- Miris Corners
- Remonumented Section Corners
- Counties
- DNR - Primary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Paved Road
- Private - Dirt / Gravel Road
- Abandoned Railroads
- ORV Routes
- Snowmobile Trails
- Designated ORV Route
- Designated Snowmobile Trails
- Gate
- Intermittent Stream
- Island in Lake or River
- Perennial River
- Lakes and Rivers
- Pipeline
- Powerline
- Compartment Boundary
- Treatments with Site Conditions
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- Seed Tree (w/Reserves)
- 411 - Northern Hardwood
- 413 - Aspen
- 612 - Lowland Coniferous Forest
- 310 - Herbaceous Openland
- 500 - Water
- 622 - Lowland Shrub

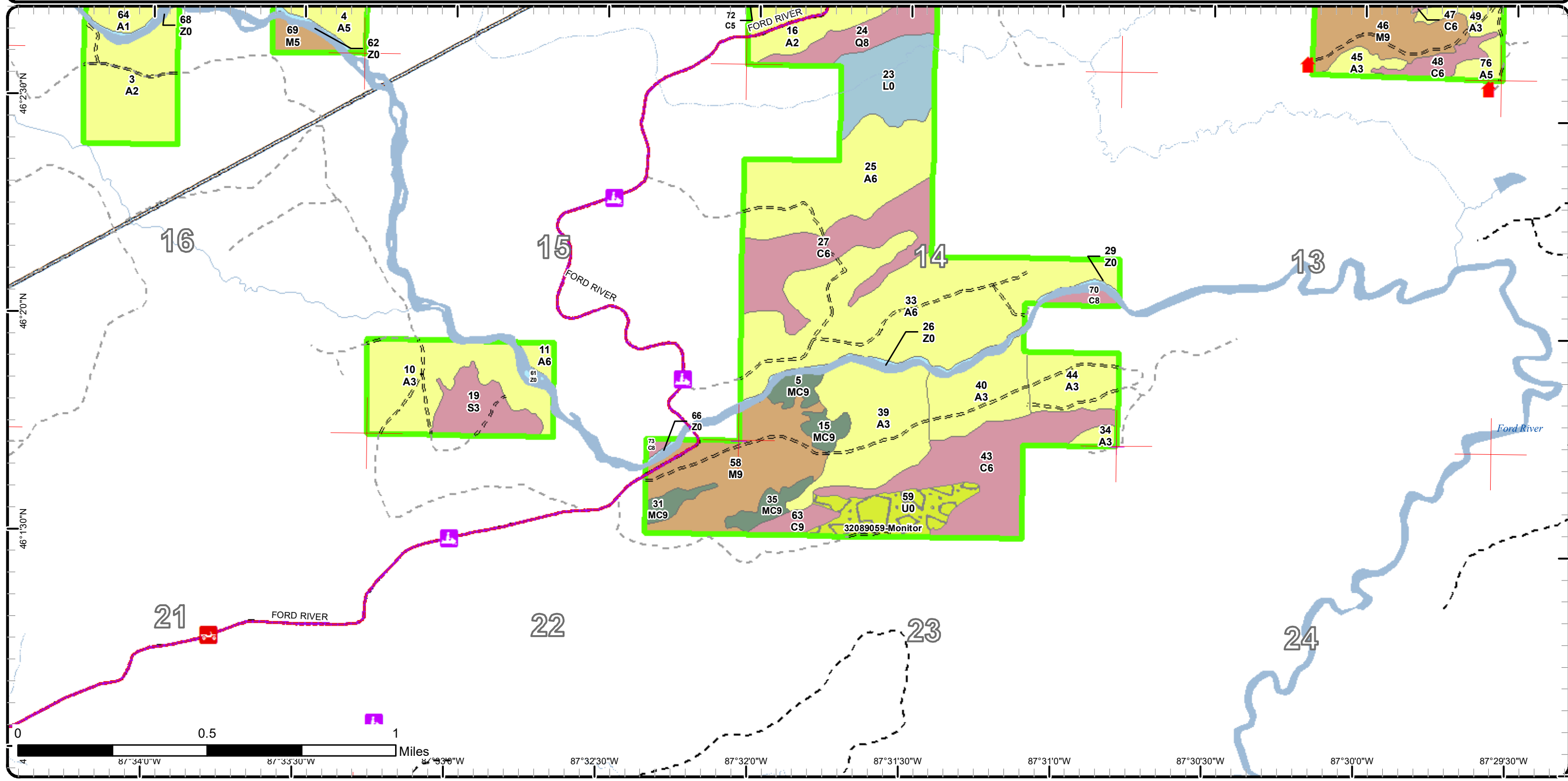


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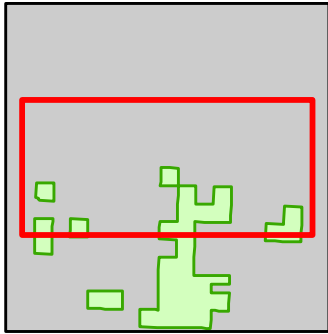


- Miris Corners
- + Remonumented Section Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State - Dirt / Gravel Road
- Private - Dirt / Gravel Road
- 🚙 ORV Routes
- 🚙 Snowmobile Trails
- Designated ORV Route
- Designated Snowmobile Trails
- 🏠 Cabin
- Intermittent Stream
- Island in Lake or River
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Pipeline
- Compartment Boundary
- Regeneration Survey
- 411 - Northern Hardwood
- 413 - Aspen
- 423 - Other Upland Conifers
- 612 - Lowland Coniferous Forest
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub

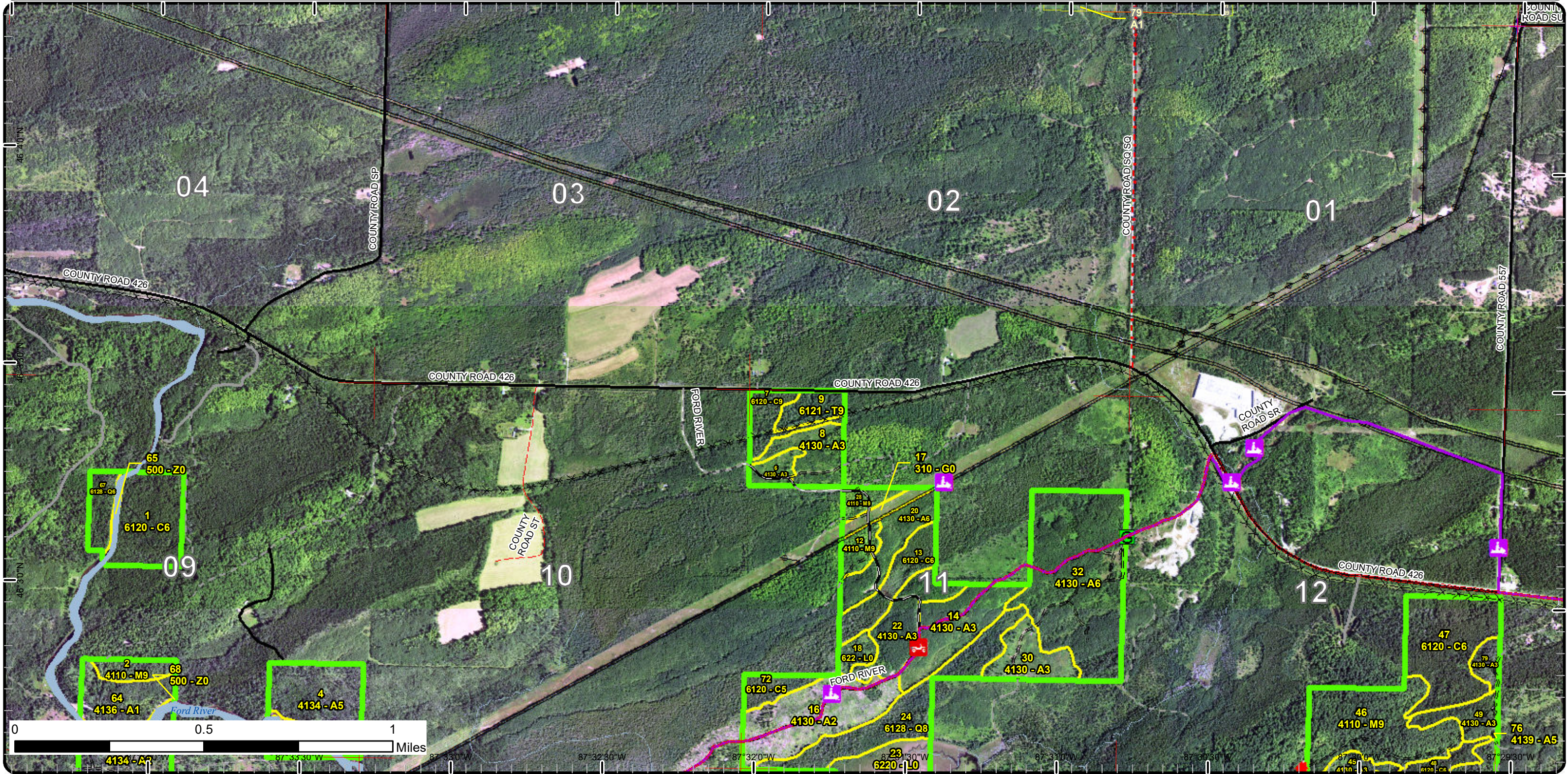


Stand Boundary Map

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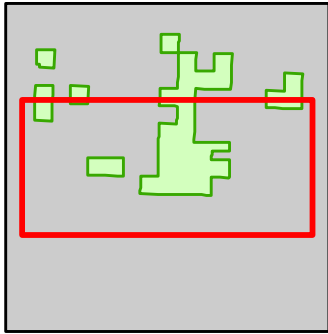


- Miris Corners
- ⊕ Remonumented Section Corners
- ▭ Counties
- DNR - Primary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- - - County - Gravel Road
- - - County - Dirt Road (Seasonal)
- Private - Paved Road
- - - Private - Dirt / Gravel Road
- ✖ Abandoned Railroads
- 🚚 ORV Routes
- 🏠 Snowmobile Trails
- Designated ORV Route
- Designated Snowmobile Trails
- Ⓜ Gate
- Intermittent Stream
- Island in Lake or River
- Perennial River
- Lakes and Rivers
- Pipeline
- ⚡ Powerline
- ▭ Compartment Boundary
- ▭ Stand Boundaries
- 411 - Northern Hardwood
- 413 - Aspen
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- 310 - Herbaceous Openland
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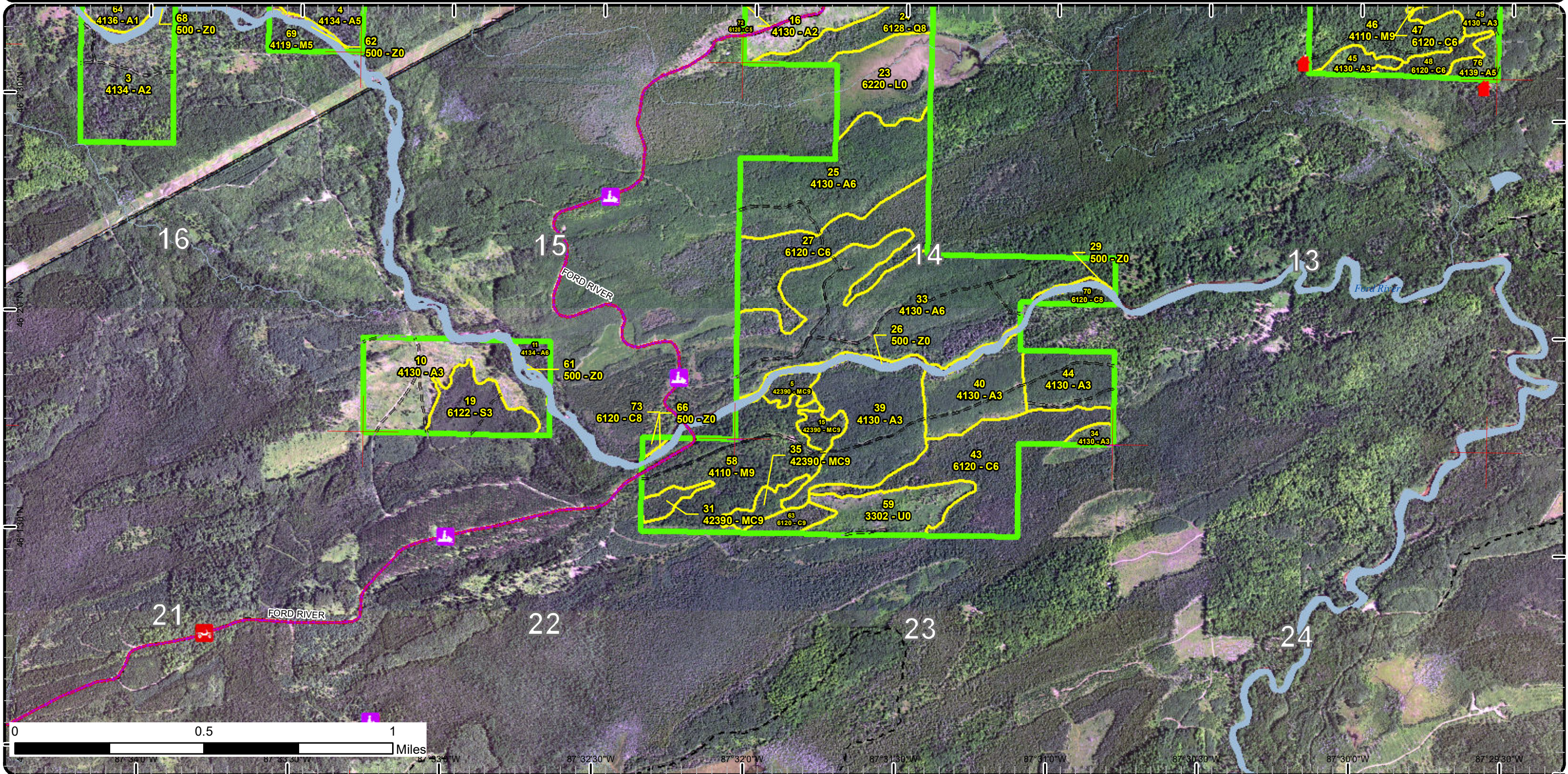


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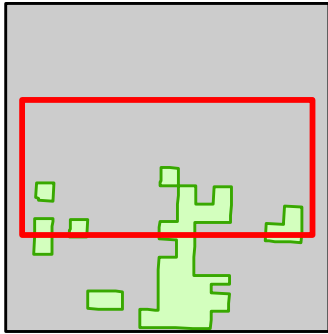


- Miris Corners
- Remonumented Section Corners
- Counties
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- DNR - Secondary Forest Road
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- Designated Snowmobile Trails
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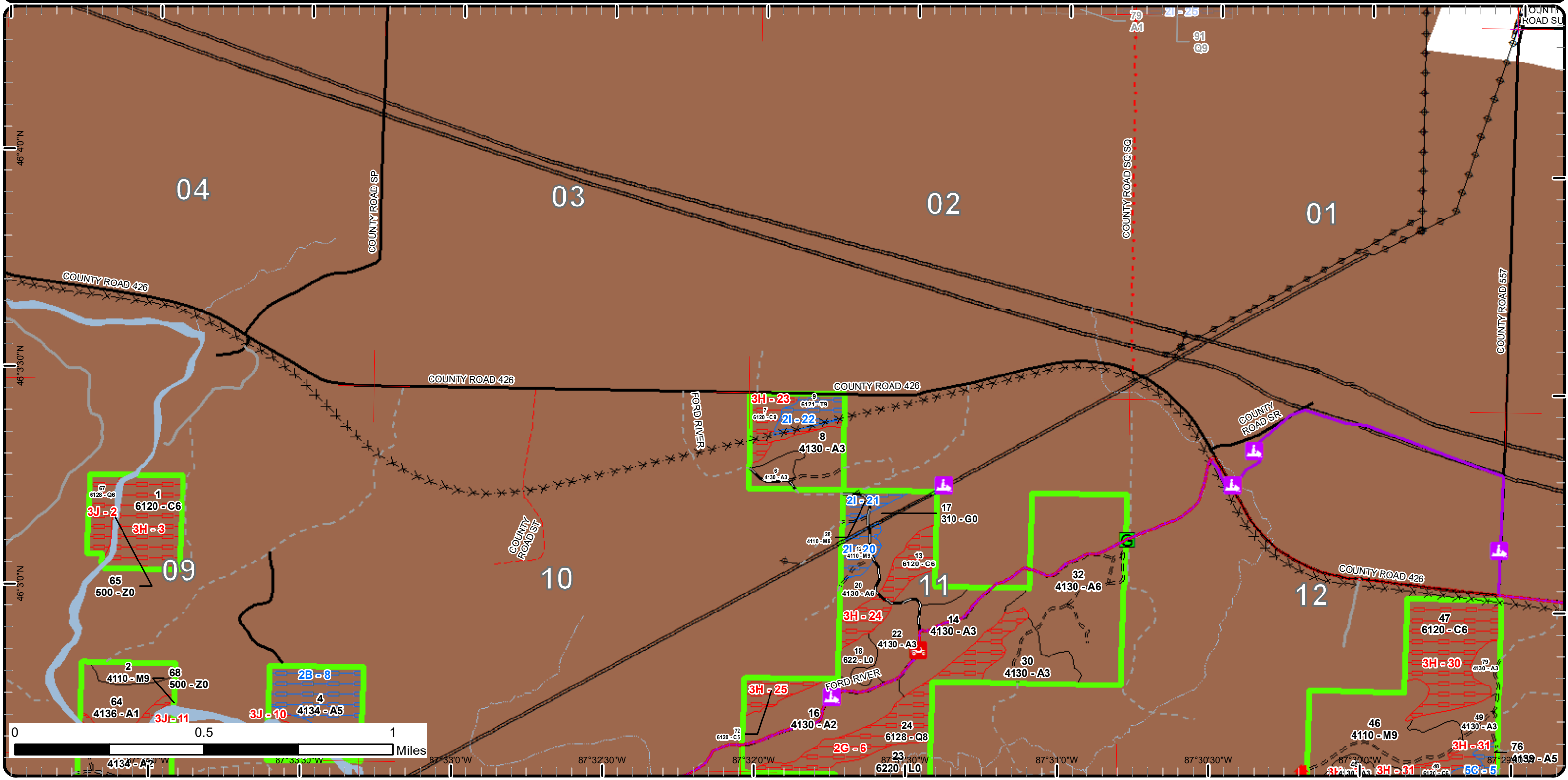


Special Conservation Areas

Compartment: 89
 T42N,R26W, Sec. 9, 11,12, 14,
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- ORV Routes
- Snowmobile Trails
- Designated ORV Route
- Designated Snowmobile Trails
- Gate
- Intermittent Stream
- Island in Lake or River
- Perennial River
- Lakes and Rivers
- Pipeline
- Powerline
- Compartment Boundary
- Available w/ Constraints
- 2I: Survey needed
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Unavailable
- Stand Boundaries
- Deer Winter Range
- 2G: Too wet (sensitive soils, does not include access issues)
- 3J: Water quality / BMPs (stream, river, or lake)





Report 2 – Treatment Summary

Gwinn Mgt. Unit

Year of Entry: 2023

Acres of Harvest

Compartment 89
Total Compartment Acres: 1,250

Commercial Harvest -
Harvests with Site Condition - 21
Next Step Harvest - 0
Habitat Cut - 0

Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Northern Hardwood	0	7	0	6	0	0	0	0	0	13
Tamarack	9	0	0	0	0	0	0	0	0	9
Total	9	7	0	6	0	0	0	0	0	21

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	21	0	0	0	0	0	27	0	0	48
Next Step	0	0	0	0	0	0	21	0	0	21
Total	21	0	0	0	0	0	48	0	0	69



Stand Name	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat
											Cut

Proposed Treatments:

9	32089009-Cut	8.5	6121 - Tamarack	Sawtimber Well	97	81-110	Harvest	Clearcut with Retention	6121 - Tamarack	Even-Aged	No
<u>Prescription</u> Harvest to a 2" spec to promote lowland conifer regeneration. Leave cedar.											
<u>Specs:</u>											
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)											
<u>Treatments:</u>											
<u>Acceptable</u> lowland conifer											
<u>Regen:</u>											
<u>Other</u>											
<u>Comment:</u>											
<u>Site Condition</u> Survey Needed											
<u>Proposed Start Date:</u> 10/1 /2022											
12	32089012-Cut	6.7	4110 - Sugar Maple Association	Sawtimber Well	109	81-110	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven- Aged	No
<u>Prescription</u> Mark stand to 70 – 90 BA. Focus on improving quality and creating canopy gaps for regeneration. Remove all merchantable spruce/fir.											
<u>Specs:</u> Leave some large future snag trees for wildlife. Favor species diversity, especially basswood, while marking.											
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)											
<u>Treatments:</u>											
<u>Acceptable</u> northern hardwood											
<u>Regen:</u>											
<u>Other</u> Add winter cutting spec for deer wintering complex.											
<u>Comment:</u>											
<u>Site Condition</u> Survey Needed											
<u>Proposed Start Date:</u> 10/1 /2022											
28	32089028-Cut	5.8	4110 - Sugar Maple Association	Sawtimber Well	109	81-110	Harvest	Seed Tree	411 - Northern Hardwood	Even-Aged	No
<u>Prescription</u> Harvest to a 2" spec to promote basswood and maple stump sprouts and seeding. Leave cedar and hemlock. In combination with leave											
<u>Specs:</u> species, green mark approximately 10 BA of healthier trees to leave for seed and diversity.											
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)											
<u>Treatments:</u>											
<u>Acceptable</u> northern hardwood, spruce/fir											
<u>Regen:</u>											
<u>Other</u>											
<u>Comment:</u>											
<u>Site Condition</u> Survey Needed											
<u>Proposed Start Date:</u> 10/1 /2022											

Approved Treatments:

59	32089059-Monitor	26.7	3302 - Low Density Conifer Trees	Nonstocked	0	Unspec ified	Monitoring	Natural Regen (Re-Inventory)	4130 - Aspen	Even-Aged	No
<u>Prescription</u>											
<u>Specs:</u>											
<u>Next Step</u>											
<u>Treatments:</u>											
<u>Acceptable</u> Aspen, birch, pine, cedar, maple.											
<u>Regen:</u>											
<u>Other</u> Percent to Treat = 100%											
<u>Comment:</u>											
<u>Site Condition</u>											



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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Proposed Start Date: 10/1 /2022

Total Treatment Acreage Proposed: 47.7

Report 4 – Site Conditions

Gwinn Mgt. Unit
Eric Brolin : Examiner

Compartment: 89
Year of Entry: 2023

Availability for Management

Total Acres	Acres Available	Acres Available <i>With Condition</i>	Acres Not Available
701	613	32	56

Dominant Site Conditions

	Total Acres	Acres Available	Acres Available <i>With Condition</i>	Acres Not Available	Dominant Site Conditions							
					2B	2I	5C	2G	3H	3J	3L	5E
701	613	32	56	Aspen	25		6			40		16
226	0	0	226	Cedar					223	3		
5	5	0	0	Herbaceous Openland								
27	27	0	0	Low-Density Trees								
42	0	0	42	Lowland Conifers				34		9		
39	39	0	0	Lowland Shrub								
22	22	0	0	Lowland Spruce/Fir								
133	112	12	9	Northern Hardwood		12				9		
8	0	8	0	Tamarack		8						
24	0	0	24	Upland Conifers						2	22	
23	23	0	0	Water								
1,250	840	53	357	Total Forested Acres	25	21	6	34	223	62	22	16
	67%	4%	29%	Relative Percent								

**Due to limitations in the current Site Conditions Analysis tool, all nonforested acres are considered available. Future development will enable analysis of nonforested types.*

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	1	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments: Trout stream buffer 100' for >50' wide stream.							
2	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	9	2G: Too wet (sensitive soils, does not include access issues)	2B: Unknown if access through adjacent landowner(s) is possible	Unspecified	Unspecified
Comments: Lowland conifer along river. Would require new road through private.							

Report 4 – Site Conditions

Gwinn Mgt. Unit
Eric Brolin : Examiner

Compartment: 89
Year of Entry: 2023

3	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	27	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments: Lowland conifer along river. Private access.							
4	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	4	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	Unspecified	Unspecified	Unspecified
Comments: Trout stream buffer 100' for >50' wide stream. Access across river or building new road across private.							
5	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Harvest next YOE cycle when adjacent stand 46 hardwoods are thinned. Small stand, fir and birch have already died out, aspen will hold well until harvest.							
6	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	34	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Very wet drainage with dense patches of cedar and a good component of cedar poles in the understory.							
7	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Trout stream buffer 100' for >50' wide stream.							
8	Available	2B: Unknown if access through adjacent landowner(s) is possible	25	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Problems trying to access. Will attempt to get into at a later date.							

Report 4 – Site Conditions

Gwinn Mgt. Unit
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9	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Hardwood thinning 25' stream buffer.							
10	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Trout stream buffer 100' for >50' wide stream.							
11	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Trout stream buffer 100' for >50' wide stream.							
12	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	5	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
Comments: Trout stream buffer 100' for >50' wide stream.							
13	Unavailable	3L: Other wildlife concerns	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Very dense to cedar/hemlock mix.							
14	Unavailable	5E: Long-Term Retention	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Long term retention for stand 3.							
15	Unavailable	5E: Long-Term Retention	12	2F: Too steep	Unspecified	Unspecified	Unspecified
Comments: Long term retention for stand 33 on steeper side slope.							

Report 4 – Site Conditions

Gwinn Mgt. Unit
Eric Brolin : Examiner

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16	Unavailable	3L: Other wildlife concerns	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Very dense to cedar/hemlock mix.							
17	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	24	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Trout stream buffer 100' for >50' wide stream.							
18	Unavailable	3L: Other wildlife concerns	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Very dense to cedar/hemlock mix.							
19	Unavailable	3L: Other wildlife concerns	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Very dense to cedar/hemlock mix.							
20	Available	2I: Survey needed	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Survey corners needed.							
21	Available	2I: Survey needed	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Survey corners needed.							
22	Available	2I: Survey needed	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Survey corners needed.							

Report 4 – Site Conditions

Gwinn Mgt. Unit
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23	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
24	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	16	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
25	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
26	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	47	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
27	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	58	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
28	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Gwinn Mgt. Unit
Eric Brolin : Examiner

Compartment: 89
Year of Entry: 2023

29	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
30	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	38	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
31	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Mgt. Unit

Compartment: #Type!

Year of Entry:



Report 5 – PROPOSED SPECIAL CONSERVATION AREA* (SCA) DETAILS

* This is a partial list of SCAs for this compartment. Not included are those areas identified under other Department initiatives (Natural Rivers, Deer Wintering Areas, etc.). Those will be identified in separate, future map and report products.

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments



Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

* This is a list of SCA's for this compartment along with a 1/4 mile buffer surrounding the compartment. Refer to the Special Conservation Area Map for locations of the below listed Conservation Areas.

ERA = Ecological Reference Area
 HCVA = High Conservation Value Area
 SCA = Special Conservation Area

Conservation Area	Type	Description
SCA	Habitat Area	An area that provide some specific need for the life cycle of wildlife species, including State Wildlife Areas and Waterfowl Production Areas, deer wintering complexes in lowland conifer communities, grassland openings and savannas. Habitat areas are distinct from critical habitat designated for recovery of endangered or threatened species (such as Kirtland's warbler or piping plover areas) in that they are more general in nature, are not primarily associated with threatened or endangered species, and are not covered by species recovery plans that are developed in cooperation with Federal agencies.
ERA	Ecological Reference Areas	Ecological Reference Areas (ERAs) are high quality examples of natural communities that have been identified as Element Occurrences (EOs) by the Michigan Natural Features Inventory (MNFI) within the context of their natural community classification system. Element Occurrences with viability ranks of A (Excellent) or B (Good) and a Global (G) or State (S) element (rarity) ranking of endangered (1), threatened (2), or rare (3) serve as an initial base of ERAs. They may be located upon any ownership in the State. The system is comprised of individual or associations of natural community types that are managed for restoration and maintenance of natural ecological processes and values. The public may submit recommendations for lands as ERAs using the DNR Conservation Area Recommendation Form.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																															
1	6120 - Lowland Cedar	Poletimber Well	27.1	123	Unspecified	N/A	Lowland conifer flat along river. Wet ground and private access.																																															
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2	4110 - Sugar Maple Association	Sawtimber Well	7.1	109	81-110	N/A	Good quality maple, small sawlog sized trees. Open understory with no regen. Some more dense patches but majority of canopy has room to grow. 110 70 110 80 average of 95 BA.																																															
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3	4134 - Aspen, Spruce/Fir	Sapling Medium	49.0	8	Immature	N/A	Aspen saplings are patchy. Some areas are dense while others are very sparse. Uncut river buffer. All adjacent aspen stands have sparse aspen poles with open fern understory. Appears to be poorer SI area for aspen. It will grow more dense than adjacent stands but will still be sparser, short aspen. Aspen is short, poor quality, and the stand is breaking up. Good mix of fir and white spruce. Drops to lowland in the southwest. Same stand across the river. Contains a small natural opening.																																															
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4	4134 - Aspen, Spruce/Fir	Poletimber Medium	29.1	50	Unspecified	N/A	11/2020, private access and hunters prevented access. 2/2021, access gates closed, limited parking with winter roads, could not access stand. Will attempt access if able during spring/summer. Variable stand, ranges from upland to lowland with cedar throughout although heavier along the river. More white spruce understory as you move east. Heavy deer use. Avg. ba only 20. Borders the Ford River.																																															
5	42390 - Mixed Non-Pine Upland Conifers	Sawtimber Well	6.2	118	111-140	N/A	Softer, upland ground dense to conifers. Cedar and hemlock cover would not allow management without harvesting these species.																																															
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8	4130 - Aspen	Sapling Well	15.4	16	Immature	N/A	Sapling stand with good component of paper birch and even maple along the east edge. A small patch of overmatured paper birch was left in the NE corner. Cut by St. John in 2004, the stand has fully regenerated to 1" aspen.																																														
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9	6121 - Tamarack	Sawtimber Well	8.5	97	81-110	N/A	Nice tamarack on the verge of decline. Decent ground but still wet. Slightly raised landing area for decking operations (see reference line) would still require frozen ground.																																														
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16	4130 - Aspen	Sapling Medium	37.6	5	Immature	N/A	Aspen saplings stand with some sparser, open patches. Overall will be fully stocked. Spruce saplings scattered with some denser patches																																						
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17	310 - Herbaceous Openland	Nonstocked	5.2			No	Powerline R.O.W.																																						
18	622 - Lowland Shrub	Nonstocked	5.0		Immature	No	Flooded lowland shrub/sapling patch.																																						
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19	6122 - Black Spruce	Sapling Well	21.6	59	51-80	N/A	Dense black spruce ground with a mixed species vein across the center. Stand age found to be significantly lower from previous inventory. Alder around edges and in canopy gaps.																																						
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
20	4130 - Aspen	Poletimber Well	16.8	29	1-50	N/A	Aspen stand transitioning to pole sized trees. Some poorly drained patches and drainage within.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen		100	Pole/Sapling	5	29	White Spruce	Low	Variable	Sapling
22	4130 - Aspen	Sapling Well	20.4	29	1-50	N/A	Dense aspen transitioning to pole sized trees. South 1/3 of stand has some mixed maple and ironwood.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen		88	Sapling	3	29	White Spruce	Low	Variable	Tall Shrub
Red Maple		6	Pole/Sapling	5		Ironwood	Low	Variable	Sapling
Sugar Maple		6	Pole/Sapling	5					
23	6220 - Alder/willow	Nonstocked	33.7		Unspecified	No	Lowland alder drainage with some sparse, flooded lowland conifer along the south edge.		
Sub-Canopy Species		Density	Avg. Height	Size					
Tag Alder		Medium	Variable	Tall Shrub					
24	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Medium	33.5	110	51-80	N/A	Mixed lowland conifer stand with tamarack some small aspen clones mixed in. Full coverage of tag alder in the understory. Very wet ground and denser cedar poles in most of the understory would make harvest difficult.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch		10	Pole	8		Balsam Poplar	Low	Variable	Sapling
Quaking Aspen		10	Log/Pole	12		Tag Alder	Full	5 - 10 feet	Tall Shrub
Balsam Fir		10	Pole/Sapling	7		Northern White Cedar	Medium	Variable	Pole
White Spruce		5	Log/Pole	10					
Black Spruce		15	Pole/Log	8	110				
Northern White Cedar		30	Log/Pole	10	110				
25	4130 - Aspen	Poletimber Well	65.6	40	81-110	N/A	Healthy aspen pole stand with no understory. Shorter than average merchantable heights.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen		85	Pole	7	40	White Spruce	Low	Variable	Sapling
Bigtooth Aspen		15	Pole	8					
26	500 - Water	Nonstocked	8.9	0		No	Ford River		
27	6120 - Lowland Cedar	Poletimber Well	47.3	123		N/A	Lowland conifer with very wet ground.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce		15	Pole/Log	10		Northern White Cedar	Medium	Variable	Sapling
Northern White Cedar		65	Pole/Log	10	123	Tag Alder	Low	5 - 10 feet	Tall Shrub
Tamarack		20	Log/Pole	10					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
28	4110 - Sugar Maple Association	Sawtimber Well	5.8	109	81-110	N/A	Poor quality hardwood. Nearly all trees across stand are significantly declining from top dieback. Average around 90 BA.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple		75	Log/Pole	10	109	White Spruce	Low	< 5 feet	Seeding
Basswood		15	Log	14		Ironwood	Low	Variable	Sapling
Red Maple		10	Pole/Log	9		Leatherwood	Low	< 5 feet	Tall Shrub
29	500 - Water	Nonstocked	2.3	0		No	Ford River		
30	4130 - Aspen	Sapling Well	15.6	5	Immature	N/A	Fully stocked aspen sapling stand with scattered birch and spruce poles.		
Canopy Species		% Cover	Size Class	DBH	Age				
Quaking Aspen		94	Sapling	2	5				
White Spruce		1	Pole	8					
Paper Birch		5	Pole	8					
31	42390 - Mixed Non-Pine Upland Conifers	Sawtimber Well	5.1	118	111-140	N/A	Softer, upland ground dense to conifers. Cedar and hemlock cover would not allow management without harvesting these species.		
Canopy Species		% Cover	Size Class	DBH	Age				
Red Maple		10	Log	14					
Yellow Birch		5	Log	14					
Northern White Cedar		40	Log/Pole	11	118				
Hemlock		45	Log	12	118				
32	4130 - Aspen	Poletimber Well	73.8	29	1-50	N/A	Dense aspen transitioning to pole sized trees. A couple areas of saturated lowland and drainages across the center. Small lowland conifer patches in both the NW and SE corner may need to be excluded from future management. Aspen diameter average smaller in the south half with lower/flatter terrain.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen		71	Pole/Sapling	5	29	White Spruce	Low	Variable	Sapling
Northern White Cedar		2	Pole/Log	9		Hazelnut (Beaked)	Low	< 5 feet	Tall Shrub
Tamarack		2	Pole	8					
Bigtooth Aspen		25	Pole/Sapling	6					
33	4130 - Aspen	Poletimber Well	131.7	30	81-110	N/A	Private gate and flooded lowland access prevented good interior look at stand. Aspen poles with scattered spruce. Would require frozen access from the north or private access from the west. Unmanaged exclusion in far east tip probably from slope. Lowland conifer flats along river.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen		94	Pole	6	30	White Spruce	Low	Variable	Sapling
White Spruce		2	Sapling/Pole	3					
Northern White Cedar		2	Log/Pole	10					
Black Spruce		2	Pole/Sapling	6					
34	4130 - Aspen	Sapling Well	3.6	15	Immature	N/A	Dense aspen saplings. Frozen access or timber mats needed from north across lowland conifer.		
Canopy Species		% Cover	Size Class	DBH	Age				
Quaking Aspen		100	Sapling	2	15				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																				
35	42390 - Mixed Non-Pine Upland Conifers	Sawtimber Well	7.2	118	111-140	N/A	Softer, upland ground dense to conifers. Cedar and hemlock cover would not allow management without harvesting these species.																																				
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39	4130 - Aspen	Sapling Well	53.2	32	1-50	N/A	Dense pure aspen transitioning to pole sized. Very little diversity.																																				
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43	6120 - Lowland Cedar	Poletimber Well	57.9	107	141-170	N/A	Dense lowland conifer. Heavy to cedar with tamarack and black spruce speckled within. Small, purer black spruce patch in SE corner.																																				
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44	4130 - Aspen	Sapling Well	23.4	30	1-50	N/A	Dense pure aspen transitioning to pole sized. Very little diversity. Dense 2-4" aspen saplings cut in 1990. Essentially pure aspen.																																				
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45	4130 - Aspen	Sapling Well	6.7	16	Immature	N/A	Dense aspen saplings with a few scattered residual conifer. Former aspen, white birch stand. Only the aspen regenerated, and only in the center of the stand. The west and south perimeter are being heavily browsed.																																				
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																
59	3302 - Low Density Conifer Trees	Nonstocked	26.7	0	Unspecified	413 - Aspen	<p>Remote call. Private access was denied during inventory, 11/2020, because of hunters in the area.</p> <p>Inventory 2011: Large overmature aspen with upland cedar. The stand has declined significantly with a large part of the aspen component dead and down. There is a lite stocking of 10-20' sugar maple saplings in the understory, and medium stocking of ironwood. Current aspen ba is 30-40, 4-5 stick, with about 5 ba of upland cedar.</p> <p>Harvest complete 02/2016; Ford River Road Bridge, TS# 32-011-13-01. Cedar was not harvested.</p>																																
61	500 - Water	Nonstocked	2.9			No	Ford River																																
62	500 - Water	Nonstocked	2.4	0		No	Ford River																																
63	6120 - Lowland Cedar	Sawtimber Well	7.1	107	141-170	N/A	Dense cedar stand.																																
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64	4136 - Aspen, Mixed Conifer	Sapling Poor	20.4	8	Immature	N/A	Slight, poorly drained slope along the river. Very poor regen with thick mats of marsh grass. Cedar and rivers edge were left uncut from past harvest.																																
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65	500 - Water	Nonstocked	2.3	0		No	Ford River																																
66	500 - Water	Nonstocked	1.1	0		No	Ford River																																
67	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	8.9	123		N/A	<p>Remote call. Access across private.</p> <p>Swamp conifer stand, formerly nominated for potential old growth. Deer yard. Borders the Ford River.</p>																																
68	500 - Water	Nonstocked	3.0	0		No	Ford River																																



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																															
69	4119 - Mixed Northern Hardwoods	Poletimber Medium	7.9	51	81-110	N/A	Small flat stand of mixed species along river. Sparse canopy in areas. Low, wet drainage cuts across center. Manageable area would be less than 2 acres.																																															
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70	6120 - Lowland Cedar	Sawtimber Medium	4.5	116		N/A	Narrow strip of large cedar along the Ford River.																																															
72	6120 - Lowland Cedar	Poletimber Medium	7.5	118	51-80	N/A	Sparser, flooded cedar and small tamarack. Alder understory across stand.																																															
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73	6120 - Lowland Cedar	Sawtimber Medium	1.4	116		N/A	Narrow strip of large cedar along the Ford River.																																															
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76	4139 - Aspen, Mixed Deciduous	Poletimber Medium	6.4	53	51-80	N/A	Sparser canopy in areas with aspen and mixed red maple and birch. Most birch and spruce/fir has died out. Some poorer drained ground holds smaller diameter aspen. Signs of SE corner but could not find it.																																															
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79	4130 - Aspen	Sapling Well	5.0	3	Immature	N/A	Isolated aspen sapling patch surrounded by lowland cedar.																																															
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