



Compartment Review Presentation

Grayling Forest Management Unit

Compartment 72285

Entry Year 2025

Acreage: 949

County Crawford

Management Area: High Sand Plains

Stand Examiner: Scott McClarren

Legal Description:

T 27N R 01W Sections 14, 15, 16, & 23

Identified Planning Goals:

To enhance recreational activities while maintaining for health, productivity, diversity, and sustainability within the compartment.

Soil and topography:

The topography is relatively flat with the exception of the SW ¼ of Section 16 and the ridges leading up from the river flood plains. The soil consists primarily of Grayling sand.

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

This compartment is composed of blocks of state ownership partially surrounded by private lands. The majority of Section 23 is owned by the Warbler's Hideaway, a private association. A small 2.5 acre parcel of state land provides fishing to Big Creek. Sno Trac Village, a private campground, is located in the SE-NE of Section 15. This campground is currently accessed through state land.

Unique Natural Features:

Kirtland's Warbler, a federally endangered species, has been known to be in the area.

Archeological, Historical, and Cultural Features:

There are known concerns within the compartment.

Special Management Designations or Considerations:

A Kirtland's Management Unit is located in compartment 275 to the north, with 80 acres of the unit falling in Section 14. The North Branch of the AuSable and Big Creek are designated as Natural Rivers.

Watershed and Fisheries Considerations:

The North Branch of the Au Sable River and the East and West Branches of Big Creek flow through the compartment. The AuSable and its tributaries are designated Natural Rivers. Stand 67 in Section 23 was purchased by DNR Fisheries Division as an access site for fishers to Big Creek. Stand 35 is the Sheep Pasture Access site which serves as a canoe landing and fishing access site.

Wildlife Habitat Considerations:

There is a possible occurrence of the Kirtland's Warbler in the compartment. Stands to the north in adjacent compartment 275 are currently being managed for Kirtland's Warbler habitat. There is extensive deer and turkey activity in Sections 14 and 16.

Mineral Resource and Development Concerns and/or Restrictions

Sections 14 – 16, 23 & 26, T27N-R1W, Crawford County

Surface sediments consist of ice-contact and glacial outwash sand and gravel and postglacial alluvium. The glacial drift thickness varies between 200 and 600 feet. Beneath the glacial drift is the Coldwater Shale. The Coldwater does not have a current economic use. The nearest gravel pit is located just north of the Compartment and potential is thought to be good on the upland areas. The Compartment is located to the north of Connors Marsh Field. The field has produced over 20 Bcf gas from the Ordovician Prairie du Chien. Part of Section 26 is leased for oil and gas development.

Vehicle Access:

Access throughout the compartment is adequate. Section 15, and Section 16 north of the AuSable River, is easily accessed off of F-97. Section 16 south of the AuSable River can be accessed off of North Down River Road going through section 22 to the south. Section 14 must be accessed from Walsh Road using Sawmill Trail. No existing roads need to be closed at this time. All new roads created through management activities are to be closed upon completion.

Survey Needs:

None.

Recreational Facilities and Opportunities:

Stand 67 serves as fishing access to Big Creek although there is no maintained access structure. Parking in this area is extremely limited, but cars were frequently observed parked along North Down River Road. Stand 35 is Sheep Pasture Access Site, managed by Parks and Recreation Bureau. The Access Site is used for fishing and canoeing access. There is hunting activity for turkey, deer, and coyote throughout the compartment from adjacent private parcels with the heaviest use in Section 14.

Fire Protection:

The AuSable River, Big Creek, and the wet areas around them, serve as effective fire breaks. Road access is adequate. Fuel types in Section 14 and 15 are of concern. There are several seasonal and permanent homes found around the compartment.

Additional Compartment Information:

None.

The following reports from the Inventory are attached:

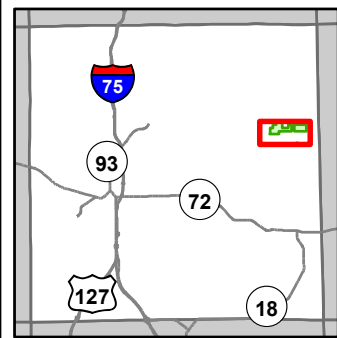
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

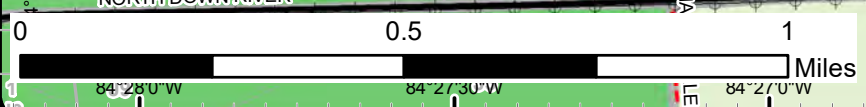
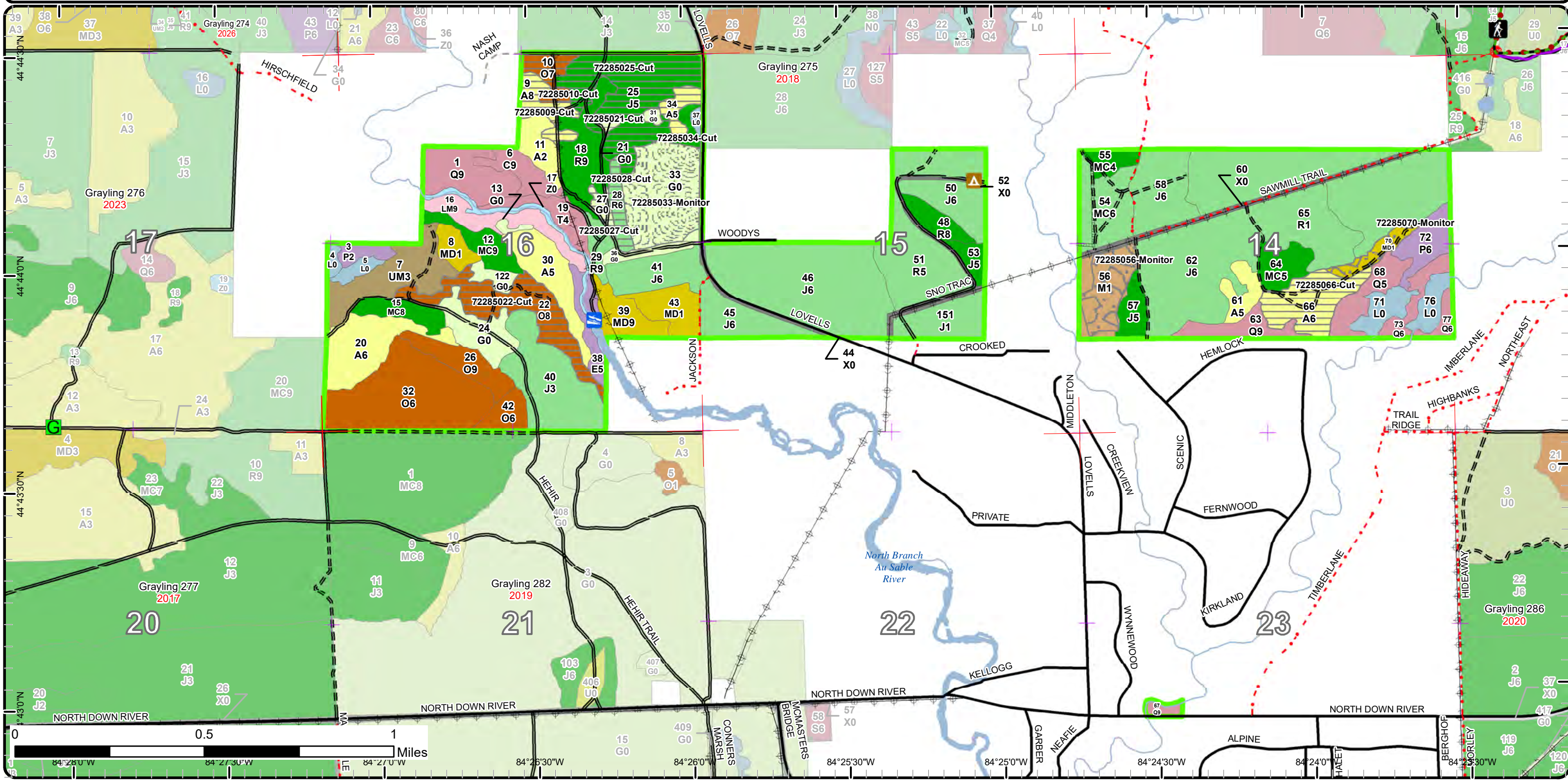
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 285
 T27N R01W 14-16, 23
 County: Crawford
 Unit: Grayling
 Mgmt Area: High Sand Plains
 YOE: 2025
 Acres: 948.9 GIS Calculated
 Examiner: Scott McClarren
 Map Revised: 11/28/2023
 Map Phase: Post-Maps



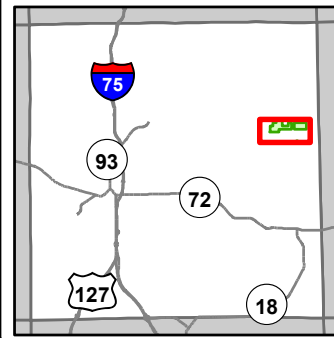
- Miris Corners
- Remonumented Section Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- County - Gravel Road
- Private - Dirt / Gravel Road
- Hiking Trails
- Horse Trails
- Snowmobile Trails
- Designated Hiking Trails
- Designated Equestrian Trails
- Designated Multi-Use Trails
- Designated Snowmobile Trails
- Gate
- Boating Access Site
- Campground
- Sign
- Intermittent Stream
- Island in Lake or River
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Pipeline
- Powerline
- Compartment Boundary
- Clearcut (w/Reserves)
- Regeneration Survey
- Monitoring
- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 500 - Water
- 622 - Lowland Shrub



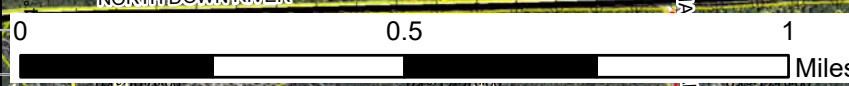
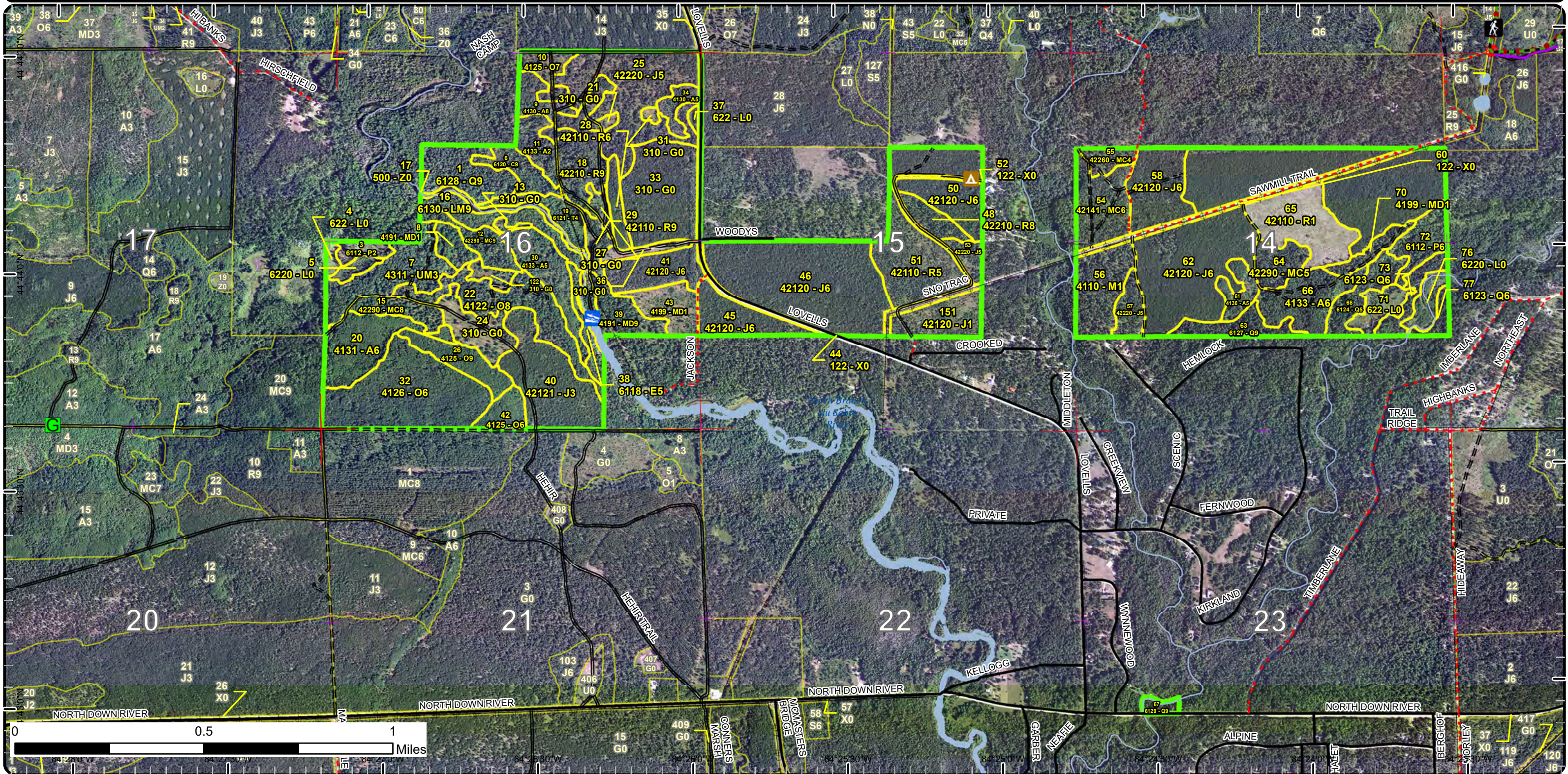
84°28'0"W 84°27'30"W 84°26'30"W 84°26'0"W 84°25'30"W 84°25'0"W 84°24'30"W 84°24'0"W 84°23'30"W

Stand Boundary Map

Compartment: 285
 T27N R01W 14-16, 23
 County: Crawford
 Unit: Grayling
 Mgmt Area: High Sand Plains
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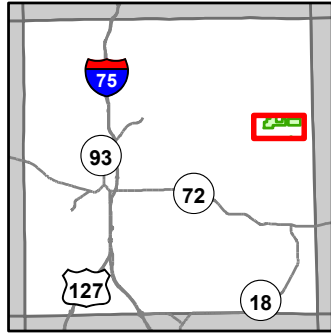


- Miris Corners
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- Counties
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- DNR - Forest Access Route
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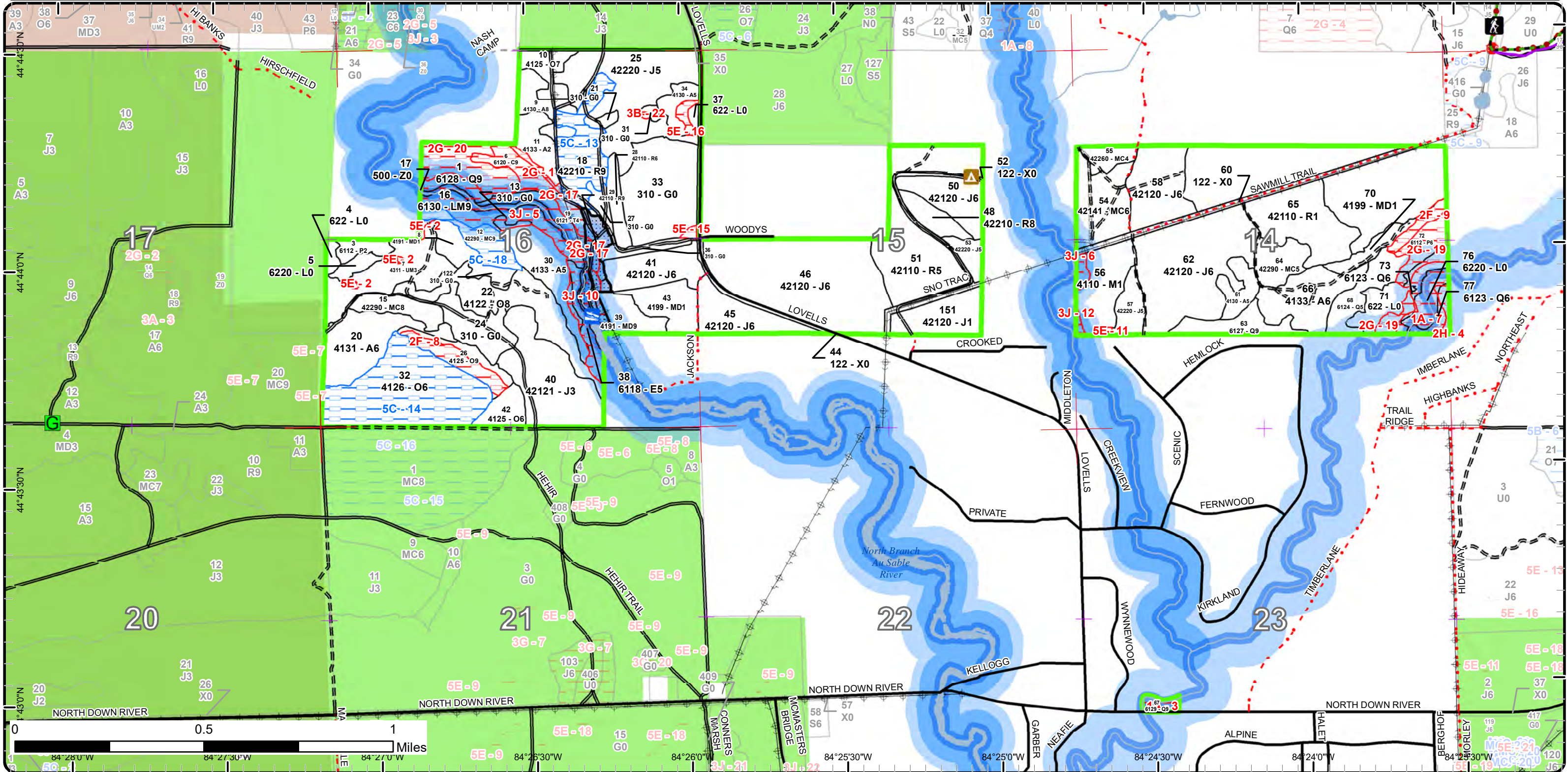
Special Conservation Areas

Compartment: 285
 T27N R01W 14-16, 23
 County: Crawford
 Unit: Grayling
 Mgmt Area: High Sand Plains
 YOE: 2025
 Acres: 948.9 GIS Calculated
 Examiner: Scott McClarren
 Map Revised: 11/28/2023
 Map Phase: Post-Maps



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- Sign
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- Island in Lake or River
- Perennial River
- Lakes and Rivers
- Pipeline
- Powerline
- Compartment Boundary

- Available w/ Constraints
- Unavailable
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 1A: Federal/State/Local Law
- 2F: Too steep
- 2G: Too wet (sensitive soils, does not include access issues)
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention
- Stand Boundaries
- SCA
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- Kirtland Warbler Habitat
- Cold Water Streams
- High Priority Trout Stream Buffer
- Research, Development, and Military Lands
- Fishing Access Site





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+	Unseen-Aged	Total
Aspen	0	8	0	0	44	0	32	0	0	0	0	0	0	0	0	0	0	0	84
Cedar	0	0	0	0	0	0	0	0	0	0	0	0	0	9	0	0	0	0	8
Herbaceous Openland	58	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	58
Jack Pine	0	0	0	32	135	100	85	0	0	0	0	0	0	0	0	0	0	0	351
Lowland Aspen/Balsam Poplar	0	4	0	0	11	0	0	0	0	0	0	0	0	0	0	0	0	0	14
Lowland Conifers	0	0	0	0	18	0	0	9	4	0	0	0	0	20	0	0	0	0	51
Lowland Deciduous	0	0	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Lowland Mixed Forest	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0	0	12
Lowland Shrub	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20
Mixed Upland Deciduous	0	11	12	0	0	0	0	11	0	0	0	0	0	0	0	0	0	0	34
Natural Mixed Pines	0	0	0	0	0	0	14	0	8	0	0	0	0	9	0	0	0	0	31
Northern Hardwood	0	19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19
Oak	0	0	0	0	7	0	0	0	0	82	0	0	7	0	0	0	0	0	96
Planted Mixed Pines	0	0	0	0	0	0	18	0	0	0	0	0	0	0	0	0	0	0	18
Red Pine	0	25	0	26	0	0	7	6	5	0	19	0	0	0	0	0	0	0	86
Tamarack	0	0	0	0	0	0	9	0	0	0	0	0	0	0	0	0	0	0	9
Upland Mixed Forest	0	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22
Urban	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21
Water	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Total	105	90	12	58	223	100	177	26	17	82	19	0	7	38	0	0	0	0	948



Report 2 – Treatment Summary

Grayling Mgt. Unit

Year of Entry: 2025

Acres of Harvest

Compartment 285

Total Compartment Acres: 949

Commercial Harvest - 116
 Harvests with Site Condition - 0
 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
Aspen	32	0	0	0	0	0	0	0	0	32
Herbaceous Openland	4	0	0	0	0	0	0	0	0	4
Jack Pine	41	0	0	0	0	0	0	0	0	41
Oak	33	0	0	0	0	0	0	0	0	33
Red Pine	6	0	0	0	0	0	0	0	0	6
Total	116	0	0	0	0	0	0	0	0	116

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	116	0	0	0	0	51	0	0	0	166
Next Step	0	178	89	0	0	103	383	103	0	857
Total	116	178	89	0	0	103	434	103	0	1023



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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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Approved Treatments:

9	72285009-Cut	8.4	4130 - Aspen	Sawtimber Medium	51	81-110	Harvest	Clearcut	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Harvest all stems greater than 2" DBH. No retention due to small size and to maximize regen. Include grouse drumming log and shrub protection specs. Leave the x-log white oaks.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Aspen objective. Oak, pine, and maple will also be accepted.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											
10	72285010-Cut	7.3	4125 - Black, N. Pin Oak	Sawtimber Poor	115	1-50	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Harvest all stems greater than 2" dbh. No retention due to small stand size. Include shrub protection spec.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> SitePrep, Trenching; SitePrep, Roller Chopping; Pesticide, Aerial - Site Prep; Monitoring, Herbicide Use; Planting, Initial Plant;</p> <p><u>Treatments:</u> Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr); Other, Pre-Commercial Thinning - Hand;</p> <p><u>Acceptable</u> Fully stocked red pine. If no rare species are found during survey, site prep as needed. If rare species are found follow MNFI recommendations for management.</p> <p><u>Regen:</u></p> <p><u>Other</u> Initiate next step treatment for MNFI rare species survey following harvest but, prior to site prep and herbicide treatments for red pine.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											
21	72285021-Cut	1.0	310 - Herbaceous Openland	Nonstocked			Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Cut all stems greater than 2" dbh in preparation for red pine planting. No retention due to size.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> SitePrep, Roller Chopping; Pesticide, Aerial - Site Prep; Monitoring, Herbicide Use; Planting, Initial Plant; Monitoring, Artificial</p> <p><u>Treatments:</u> Regen(1yr); Monitoring, Artificial Regen(3yr); Other, Pre-Commercial Thinning - Hand; SitePrep, Trenching;</p> <p><u>Acceptable</u> Fully stocked red pine. If no rare species are found during survey, site prep as needed. If rare species are found follow MNFI recommendations for management.</p> <p><u>Regen:</u></p> <p><u>Other</u> Initiate next step treatment for MNFI rare species survey following harvest but, prior to site prep and herbicide treatments for red pine.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											



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Treatment ID	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
22	72285022-Cut	25.2	4122 - Oak, Pine	Sawtimber Medium	85	1-50	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	No
<p><u>Prescription</u> Harvest all stems greater than 2" dbh. Follow standard retention guidelines. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable Regen:</u> Mixed Upland Deciduous goal. It's expected to regenerate to poor or moderately stocked. Acceptable species are oak, aspen, pine, cherry, and maple. If stand fails to regenerate, accept stand as barren-like opening (similar to stand 24). <u>Other Comment:</u> Consider placing some retention on slope down to stand 30. <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2024</p>											
25	72285025-Cut	41.3	42220 - Natural Jack Pine	Poletimber Medium	51	51-80	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Harvest all stems greater than 2" dbh. Retention has been established around lowland stand 37 using aerial imagery, adjust as needed. <u>Specs:</u> <u>Next Step</u> SitePrep, Trenching; SitePrep, Roller Chopping; Pesticide, Aerial - Site Prep; Monitoring, Herbicide Use; Planting, Initial Plant; <u>Treatments:</u> Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr); Other, Pre-Commercial Thinning - Hand; <u>Acceptable Regen:</u> Fully stocked red pine. If no rare species are found during survey, site prep as needed. If rare species are found follow MNFI recommendations for management. <u>Other Comment:</u> Initiate next step treatment for MNFI rare species survey following harvest but, prior to site prep and herbicide treatments for red pine. <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2023</p>											
27	72285027-Cut	3.0	310 - Herbaceous Openland	Nonstocked			Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Harvest all stems greater than 2". No retention due to size. <u>Specs:</u> <u>Next Step</u> SitePrep, Trenching; SitePrep, Roller Chopping; Pesticide, Aerial - Site Prep; Monitoring, Herbicide Use; Planting, Initial Plant; <u>Treatments:</u> Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr); Other, Pre-Commercial Thinning - Hand; <u>Acceptable Regen:</u> Fully stocked red pine. If no rare species are found during survey, site prep as needed. If rare species are found follow MNFI recommendations for management. <u>Other Comment:</u> Initiate next step treatment for MNFI rare species survey following harvest but, prior to site prep and herbicide treatments for red pine. <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2023</p>											
28	72285028-Cut	5.5	42110 - Planted Red Pine	Poletimber Well	63	111-140	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Harvest all stems greater than 2" dbh. No retention due to small stand size. <u>Specs:</u> <u>Next Step</u> SitePrep, Trenching; SitePrep, Roller Chopping; Pesticide, Aerial - Site Prep; Monitoring, Herbicide Use; Planting, Initial Plant; <u>Treatments:</u> Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr); Other, Pre-Commercial Thinning - Hand; <u>Acceptable Regen:</u> Fully stocked red pine. If no rare species are found during survey, site prep as needed. If rare species are found follow MNFI recommendations for management. <u>Other Comment:</u> Initiate next step treatment for MNFI rare species survey following harvest but, prior to site prep and herbicide treatments for red pine. <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2023</p>											



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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
33 72285033-Monitor	31.1	310 - Herbaceous Openland	Nonstocked	0	Unspecified	Monitoring	Other - Specify	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription Specs:</u> MNFI rare species survey needs to be scheduled following harvest of adjacent stands but, prior to site prep and herbicide treatments for red pine.</p> <p><u>Next Step Treatments:</u> SitePrep, Trenching; SitePrep, Roller Chopping; Pesticide, Aerial - Site Prep; Monitoring, Herbicide Use; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr); Other, Pre-Commercial Thinning - Hand</p> <p><u>Acceptable Regen:</u> Fully stocked red pine. If no rare species are found during survey, site prep as needed. If rare species are found follow MNFI recommendations for management.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>										
34 72285034-Cut	4.9	4130 - Aspen	Poletimber Medium	51	51-80	Harvest	Clearcut	413 - Aspen	Even-Aged	No
<p><u>Prescription Specs:</u> Harvest all stems greater than 2" dbh. No retention due to small stand size and to maximize regen. Add drumming log and shrub protection spec.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Aspen objective. Pine and oak will also be acceptable species.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										
56 72285056-Monitor	13.9	4110 - Sugar Maple Association	Sapling Poor	6	Immature	Monitoring	Artificial Regen(3yr)	42110 - Planted Red Pine	Even-Aged	No
<p><u>Prescription Specs:</u></p> <p><u>Next Step Treatments:</u> Pesticide, Skidder - Release; Other, Pre-Commercial Thinning - Mechanical</p> <p><u>Acceptable Regen:</u> A fully stocked stand of planted red pine. Ground-based herbicide application was approved by variance 12-20-17 to control deciduous competition.</p> <p><u>Other Comment:</u> Percent to Treat = 100%</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										
66 72285066-Cut	18.9	4133 - Aspen, Mixed Pine	Poletimber Well	54	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription Specs:</u> Harvest all stems greater than 2" dbh. Follow standard retention guidelines. Include grouse drumming log and shrub protection specs.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Aspen objective. Oak, conifer, and maple are also acceptable species.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>										



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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
70 72285070-Monitor	5.6	4199 - Other Mixed Upland Deciduous	Sapling Poor	6	1-50	Monitoring	Natural Regen (Re-Inventory)	4191 - Mixed Upland Deciduous with Conifer	Even-Aged	No
<p><u>Prescription Specs:</u> Stand failed to meet oak, pine objective but, does have desirable species present under 6' that couldn't be counted. Check to make sure desirable species recruit above browse height.</p> <p><u>Next Step Treatments:</u></p> <p><u>Acceptable Regen:</u> Mixed upland deciduous with conifer. Oak, aspen, pine, and maple are all acceptable species.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p>Proposed Start Date: 10/1 /2024</p>										

Total Treatment Acreage Proposed: 166.1

Report 4 – Site Conditions

Grayling Mgt. Unit

Scott McClarren : Examiner

Compartment: 285

Year of Entry: 2025

Availability for Management

Total Acres	Acres Available	Acres Avail			Dominant Site Conditions								
		With Condition	Not Available		5C	1A	2F	2G	2H	3B	3J	5E	
84	83	0	1	Aspen								1	
8	0	0	8	Cedar				8				0	
58	56	0	2	Herbaceous Openland						0		1	1
350	349	0	2	Jack Pine			0						2
15	4	0	11	Lowland Aspen/Balsam Poplar			3	7					
51	20	0	31	Lowland Conifers		7		18	2			4	
8	0	0	8	Lowland Deciduous								8	
12	0	0	12	Lowland Mixed Forest								12	
19	13	0	6	Lowland Shrub		6			0				
33	31	0	2	Mixed Upland Deciduous			0					2	
31	22	9	0	Natural Mixed Pines	9							0	
19	16	0	3	Northern Hardwood								2	0
96	43	46	7	Oak	46		7						
18	18	0	0	Planted Mixed Pines									
86	66	19	1	Red Pine	19							1	
9	0	0	9	Tamarack				3				6	
23	22	0	1	Upland Mixed Forest									1
21	21	0	0	Urban								0	
6	0	0	6	Water								6	
949	765	73	111	Total Forested Acres	73	13	11	37	2	0		45	4
	81%	8%	12%	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	2G: Too wet (sensitive soils, does not include access issues)	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
PVT on north boundary. Ausable south. Steep slope on east side of stand with cedar/alder and hillside seeps that are not operable.							

Report 4 – Site Conditions

Grayling Mgt. Unit
Scott McClarren : Examiner

Compartment: 285
Year of Entry: 2025

2	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Islands and boundary-excluded retention left when stand 7 was harvested in 2018.							
3	Unavailable	1A: Federal/State/Local Law	2	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments: Natural river buffer 150 ft from E. Branch Big Creek. Soils also saturated.							
4	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	38	Unspecified	Unspecified	Unspecified	Unspecified
Comments: N. Branch AuSable natural river buffer 150 ft. from rivers edge.							
6	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	2	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
Comments: W. Branch Big Creek natural river buffer 150 ft. from rivers edge.							
7	Unavailable	1A: Federal/State/Local Law	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments: E. Branch Big Creek natural river buffer 150 ft. from river edge.							

Report 4 – Site Conditions

Grayling Mgt. Unit
Scott McClarren : Examiner

Compartment: 285
Year of Entry: 2025

8	Unavailable	2F: Too steep	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Grade above 40 %. May be able to harvest part of this slope either from the top or the bottom.							
9	Unavailable	2F: Too steep	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
10	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	5	3D: Recreational / Scenic values	Unspecified	Unspecified	Unspecified
Comments: Sheep Pasture Access Site. Parks and Recreation Division Management Priority. Also contains the 150 ft Natural River Buffer which buffers the N. Branch AuSable River.							
11	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
12	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
13	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	19	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Treatment removed due to natural pine management memo.							

Report 4 – Site Conditions

Grayling Mgt. Unit
Scott McClarren : Examiner

Compartment: 285
Year of Entry: 2025

14	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	46	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Stand is healthy and still overall pole size. Delay treatment to allow white oak to put on some diameter growth.							
15	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Island retention left when stand 33 was harvested.							
16	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Long-term retention associated with stand 25.							
17	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
18	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Leaving for natural succession to take place.							
19	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Grayling Mgt. Unit

Scott McClarren : Examiner

Compartment: 285

Year of Entry: 2025

20	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	14	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	Unspecified	Unspecified	Unspecified
Comments:							
22	Unavailable	3B: Threatened, endangered, and special concern species	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Alleghany plum found in opening.							

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	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
SCA	Research and Military Areas	These areas provide facilities and lands specifically dedicated for research, or other purposes. They include the 5,847 acre Forest Fire Experiment Station, the 12,000 acre Houghton Lake Wildlife Research Area, the Beaver Islands Archipelago Wildlife Research Area (that includes most of Garden Island, all of High and Hog Islands, all state owned land on Beaver, South Fox and North Fox Islands), the Cusino Wildlife Research Area, the 3,000 acre Hunt Creek Fisheries Research Station, the 125 acre Wyman Nursery, and over 144,000 acres of Military Lands.
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in which the terrestrial ecosystem influences the aquatic ecosystem and vice-versa. Because of the unique conditions adjacent to lakes, streams and open water wetlands, riparian areas harbor a high diversity of plants and wildlife. Riparian communities are ecologically and socially significant in their effects on water quality and quantity, as well as aesthetics, habitat, bank stability, timber production, and their contribution to overall biodiversity.
HCVA	Designated Critical Habitat	Critical habitat areas are established via a consultative and cooperative process between the DNR and the U.S. Fish and Wildlife service for the recovery of threatened and endangered species, as governed by Part 365, Endangered Species Protection, of the Natural Resources and Environmental Protection Act, 1994 PA 451, and the Federal Endangered Species Act of 1973. This is an active program, with proposed species plans in various stages of review. As of now only two exist, Kirtland Warbler Habitat and Piping Plover Habitat.
HCVA	Natural Rivers	There are two Natural Rivers datasets which are derived from spatial buffers set from an established and approved distance from the river centerlines. The Natural Rivers Zoning District is a 400 foot buffer for most Natural Rivers. The Vegetative Buffer ranges from 25 to 100 feet.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																														
1	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well	17.9	120	111-140	N/A	6 QD plots taken in stand. Avg DBH=125. Stand is mostly lowland but, dry enough in most places to allow for operations. Access is difficult due to surrounding lowlands, Ausable River, and private property. Pockets of fir blow down in a couple spots. A lot of aspen mortality in stand. South 150' of stand in Natural River RMZ.																																														
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3	6112 - Lowland Aspen	Sapling Medium	4.1	8	1-50	N/A	Mostly aspen, maple, fir with pockets of natural supercanopy pine. Lots of down wood from w/ treatment and tough to navigate. Changed fro 2-aged to even age. Not enough residuals to separate age classes. Stand met regen objective for lowland aspen.																																														
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4	622 - Lowland Shrub	Nonstocked	1.8			No	Mostly alder with switchgrass and cattail. (Old Comment: This area has been flooded by beavers. Some big red pine found in stand. A lot of standing dead timber.) Beaver appear to have moved out of this stand but a large portion of it remains flooded.																																														
5	6220 - Alder/willow	Nonstocked	3.1			No	Continuously wet stand. Some lowland conifers filling in. Bare Berry was found in this stand.																																														
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6	6120 - Lowland Cedar	Sawtimber Well	8.5	120	141-170	N/A	Upland stand drops off a short steep slope with seeps observed trickling out of the hillside into the lowland in the fall. Hill to the upland contains cedar and tag alder all the way to the top in place. Understory is open in north and full density fir in south. Old comments-Cedar stand with pockets of balsam fir and spruce. Super-canopy red pine throughout this stand. Cedar varies from log size to sapling but is primarily pole size. Sapling stems were present in the balsam fir patches. Cored sapling cedar, found to be suppressed individuals not regeneration. Good wildlife stand.																																																			
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7	4311 - Pine, Aspen Mix	Sapling Well	22.5	5	1-50	N/A	Stand regenerated aspen really well between lockets of protected white pine and stand met harvest regen objectives. Merged 2 acre natural red pine stand that was treated with stand 7 due to small size. Other parts of stand have pockets of natural pine with legacy trees as well. Previous comments- Was final harvested with reserves in August 2018 (#021-15), cutting stems 2"+ DBH except WP-RP greater than 18" DBH and less than 6" DBH, protecting A-WP regen, and excluding retention islands. MiFI error required the stand age to match the minor residual aspen canopy record, so left the aspen at the cutting record age. Previous comments: Left residual oak and pine throughout. Heavy white pine understory. Significant blow down in the eastern part of the stand. Created an above normal slash load.																																																			
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8	4191 - Mixed Upland Deciduous with Conifer	Sapling Poor	5.4	5	1-50	N/A	Stand failed to meet oak/pine regen objectives following harvest but, criteria for moderately stocked mixed upland deciduous with conifer. It was agreed to accept the current stand composition through 2025 compartment review. Some parts of stand regenerated aspen nicely while other parts are open with cherry. There's a lot of residual white pine poles/saplings left behind from harvest that have a jump on the rest of the regen. The more open portion of stand sort of flows into some poorly stocked more open oak barren type areas of the adjacent stands. Soils seem to be very poor here and adjacent stands 122 and 22. Old comments- Most of the stand was final harvested with reserves in 2018 (#021-15), cutting stems 2"+ DBH except WP-RP greater than 18" DBH and smaller than 6" DBH, and green-marked trees (scattered oak). A sub-acre strip of the stand's east edge was excluded from the harvest but not designated as retention. Previous comments: Canopy is dominated by large diameter, sprawling oaks. The basal area (BA) of this group is relatively small. BA is more representative of the sub-canopy which is a mixture of pole/log size red maple and oaks along with scattered white pine.																																																			
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
9	4130 - Aspen	Sawtimber Medium	8.4	51	81-110	N/A	Changed from 2 aged to even aged with scattered larger oaks. Aspen is declining. Powerline row runs through stand.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir		8	Pole	8		Northern Pin Oak	Low	< 5 feet	Sapling
Red Pine		6	Log	14		Red Pine	Low	10 - 20 feet	Sapling
White Oak		2	Log/XLog	16		Quaking Aspen	Medium	Variable	Sapling
Quaking Aspen		80	Log/Pole	10	51	White Pine	Medium	Variable	Sapling
Northern Pin Oak		4	Log/XLog	16		Black Cherry	Medium	Variable	Tall Shrub
10	4125 - Black, N. Pin Oak	Sawtimber Poor	7.3	115	1-50	N/A	Open oak with open understory. Some patches of regen throughout. Stand had a scarification treatment on it that was dropped this YOE due to small stand size and low priority. Some oak regen present but heavily browsed and 1-2' tall. Powerline row splits stand.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Oak		5	Log	16		Quaking Aspen	Low	5 - 10 feet	Sapling
Northern Pin Oak		60	Log	16	115	Black Cherry	Medium	Variable	Tall Shrub
Quaking Aspen		4	Pole	7		Northern Pin Oak	Medium	< 5 feet	Sapling
Jack Pine		11	Pole	8	51	Red Pine	Trace	Variable	Sapling
Red Pine		5	Log	15		White Pine	Trace	Variable	Sapling
Black Cherry		15	Sapling/Pole	4		Hawthorn (spp.)	Trace	5 - 10 feet	Tall Shrub
11	4133 - Aspen, Mixed Pine	Sapling Medium	8.4	4	1-50	N/A	Stand met regen objective following harvest.		
Canopy Species		% Cover	Size Class	DBH	Age				
Red Pine		2	Log	12					
Black Cherry		15	Sapling	1					
Quaking Aspen		53	Sapling	1	4				
Black/Red (Hybrid) Oak		2	Sapling	1	37				
White Pine		25	Pole/Sapling	5					
Balsam Fir		3	Pole	7					
12	42290 - Natural Mixed Pine	Sawtimber Well	8.8	120	111-140	N/A	About 1/2 of stand is on a north slope while northeast portion is on a bench. Quite a bit of course woody debris throughout. The whole west side of stand is on a short steep slope. QD inventory in stand showed BA range between 48 and 138 with an average BA of 93.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen		7	Log/Pole	10		Balsam Fir	Low	>20 feet	Sapling
Red Maple		5	Log/Pole	10		White Pine	High	10 - 20 feet	Sapling
White Oak		2	XLog/Log	18		Red Pine	Low	10 - 20 feet	Sapling
Red Pine		51	XLog/Log	18	120	Black Cherry	Medium	< 5 feet	Sapling
White Pine		28	Log/XLog/Pole	16					
Balsam Fir		5	Pole	7					
Northern White Cedar		2	Pole/Log	9					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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19	6121 - Tamarack	Poletimber Poor	8.7	55	1-50	N/A	Mix of lowland spp with a lot of shrubs (hawthorn, serviceberry etc.) Some open areas with alder. More open lowland alder in northwest and tamarack in south. Old comments- Stand is seasonally wet. White and red pine are scattered throughout this stand . Power line also runs through this stand.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	3	Pole	8		Wild Raisin	Medium	5 - 10 feet	Tall Shrub
Black Spruce	2	Pole/Sapling	5		Black Spruce	Low	5 - 10 feet	Sapling
Northern White Cedar	5	Log/Pole	10		White Pine	Low	5 - 10 feet	Sapling
Red Pine	2	Pole/Log	8		Hawthorn (spp.)	Medium	5 - 10 feet	Tall Shrub
Quaking Aspen	30	Log/Pole	11		Serviceberry (Juneberry)	Low	10 - 20 feet	Sapling
Tamarack	56	Pole	8	55	Alder	Medium	5 - 10 feet	Tall Shrub
Willow spp.	2	Log	10					

20	4131 - Aspen, Oak	Poletimber Well	21.1	36	51-80	N/A	Aspen stand has a good oak component in places. Stand is north and west facing. Some very steep parts in NE. Old comments- Final harvested 7-31-1987 as part of Green Box Block TS# 720028601. PArHa/PArVvb. Aspen is growing well.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	3	Log/Pole	10		Witch Hazel	High	5 - 10 feet	Tall Shrub
White Oak	2	Pole	7		Red Maple	Medium	>20 feet	Sapling
Black/Red (Hybrid) Oak	25	Pole	7		White Oak	Low	< 5 feet	Sapling
White Pine	2	Pole	6		White Pine	Low	10 - 20 feet	Sapling
Red Maple	10	Pole	6					
Bigtooth Aspen	58	Pole	7	36				

21	310 - Herbaceous Openland	Nonstocked	1.0			No	Opening with cherry and hawthorn. Grass and sweetfern ground veg. Old comments- Open area within surrounding stand. Result of past management. Good wildlife opening.
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Sub-Canopy Species	Density	Avg. Height	Size
Jack Pine	Low		Sapling

22	4122 - Oak, Pine	Sawtimber Medium	25.2	85	1-50	N/A	Oak is declining fast, quite a bit of mortality. Stand is very open in north. Decent oak component in sub canopy (medium to high density, mostly under 5'). Old comments- Closing adjacent treatment triggered a spurious "Needs Update" on this stand. No changes were made to the original stand examiner's 3-12-13 field data. Original comments: Low density oak stand with mixed pine throughout. Red and white pine are more prevalent to the west and north. This transitions to jack/red pine mixed in with the oak as you move east and south. PVCd.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	10	Log	11		Serviceberry (Juneberry)	Low	5 - 10 feet	Sapling
Jack Pine	5	Pole/Log	9		White Oak	Medium	< 5 feet	Sapling
White Pine	20	Log/Pole	10		White Pine	Low	5 - 10 feet	Sapling
Bigtooth Aspen	5	Pole	8		Northern Pin Oak	Medium	< 5 feet	Sapling
Northern Pin Oak	30	Log	14	85	Hawthorn (spp.)	Low	5 - 10 feet	Tall Shrub
White Oak	30	Log	14	85				

24	310 - Herbaceous Openland	Nonstocked	12.7		Immature	No	Open grass and sweet fern stand with scattered oak, cherry, and pine. Some prairie willow scattered throughout as well. Old comment- Oak/pine barren resemblance. PVCd/PArVHa.
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Sub-Canopy Species	Density	Avg. Height	Size
Jack Pine	Low		Pole
White Oak	Low		Log
Red Pine	Low		Log
White Pine	Low		Pole
Northern Pin Oak	Medium		Log



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25	42220 - Natural Jack Pine	Poletimber Medium	43.0	51	51-80	N/A	Merged 3.5 acre stand 80 (62 year old J6) with stand 25 to meet MIFI mapping standards. Jack pine stand with cherry brush openings with some saw timber but, not enough to call stand log size overall. Jack pine declining throughout stand. High-medium density oak regen heavily browsed and under 5'. Old comments: Final harvested 12-31-1972, removed all merchantable aspen and jack pine with one 8' bolt. Mixed size class of jack pine because of past management. Some of the oak stump sprouted after harvest and is more dense in the west part of the stand. Stand 80 old comments: This portion of stand 33 was excluded from the harvest due to the presence of a nest. See stand 33 comments. Previous comments: Most of this stand has stagnated because of its high number of stems per acre. Areas where blow down has occurred the jack pine is larger in diameter. Scattered log size red pine throughout, less than 2%.																																										
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26	4125 - Black, N. Pin Oak	Sawtimber Well	11.1	84	111-140	N/A	Steep north facing stand same age as adjacent stand 32 but was never thinned. Stand has old boundary paint but, portion was dropped due to slope. Old comments- This stand was not included in sale to the south because it is to steep. PArHa/PArVvb.																																										
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27	310 - Herbaceous Openland	Nonstocked	3.0			No	Open with scattered oaks and a small pocket of jack pine. Fair amount of hawthorn present.																																										
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28	42110 - Planted Red Pine	Poletimber Well	5.5	63	111-140	N/A	Northern untreated portion ba is around the 171-200 range. Old comments- The stand was crown-thinned in April 2019 (#022-15), cutting marked stems, except the north acre that was excluded as part of a raptor nest buffer. The nest was inactive and in disrepair when the snag it occupied blew down this spring. Previous comments: was row-thinned in 2008 (#052-05). Better quality stems to the north. Diameter and height both increase.																																										
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29	42110 - Planted Red Pine	Sawtimber Well	5.3	73	141-170	N/A	Red pine is denser in north 1 acre (around 200 ba). South side of stand is around 140 ba inside river buffer. Opening in middle of stand too small to map. Old comments- Access to the Sheep Pasture Access Site is through this stand. Department infrastructure and signage are also located in this stand. Stand was planted approximately the same time as stand to the east. Pine is growing well along the river. Most of this stand is within the Natural River Buffer.																																										
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30	4133 - Aspen, Mixed Pine	Poletimber Medium	15.8	36	51-80	N/A	Aspen with some openings and pockets of sub-merch trees. Stand is on a bench where drops down from stand 22 and again down to stand 38. Quite a bit of beaver activity. 6 acres of white pine pole timber with aspen over top merged with north side of stand. Final harvested 3-31-1987 as part of North Branch Block TS# 720038601. Left all cedar and removed aspen, oak, and red pine.																																																		
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31	310 - Herbaceous Openland	Nonstocked	1.0		Unspecified	No	A pocket of Allegheny plum found in stand and reported to MNFI. Old comments- Open area within surrounding stand. Result of past management. Good wildlife opening.																																																		
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32	4126 - White, Black, N. Pin Oak	Poletimber Well	45.7	84	51-80	N/A	Stand is close to being considered log size but, overall hasn't quite hit the 30% threshold yet. BA is 60. There are medium to high density pockets of oak under 5' tall and a low to medium white/red pine component in understory. Cant call stand 2 age yet since oak sub-canopy isn't tall enough. Some scattered single tree mortality present. Old comments- Stand was thinned 10-15-2009 as part of N. Branch Oak Thin TS# 720290501. Removed all red maple and aspen as well as marked the residual oak down to 50 sq ft/acre. 219 cords of mixed oak was removed. PARHa/PARVVb.																																																		
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33	310 - Herbaceous Openland	Nonstocked	31.8	0	Unspecified	412 - Oak Types	Split 4 acres of stand part of experimental drone project into new a stand 133. Stand a quantitative regen survey was conducted and found there to be 2,180 oak/ac, 110 jp/ac, and 450 cherry/ac. Almost all regen was 1-3' tall. Old comments- JP plantation was final harvested June 2019 (#022-15), cutting stems 2"+ DBH except a retention island in the SE, & manageable non-retention exclusion in the NW. C72-870 submitted for trenching & planting JP. Good scarification & cone dispersal occurred during chipping, so potential is good for seed-origin JP regen, in addition to the expected NPO-A sprouting. Walk-thru natural regen check 10-13-20: very little JP regen. Oak filled in well on E-edge but sparse across rest of stand. A3 patch in NE. 4 ac.in E1/2 are part of an experimental drone seeding project. 2021 drone site monitoring noted good oak regen & JP volunteers, so will delay site prep and monitor nat regen instead.																																																		
34	4130 - Aspen	Poletimber Medium	4.9	51	51-80	N/A	Sub-canopy has a good red pine component in places. Old comments- Cut in 1972 with adjacent stand. Aspen pocket which regenerated nicely. More dense to the north. Aspen loses diameter and basal area as you move south.																																																		
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36	310 - Herbaceous Openland	Nonstocked	4.0		Immature	No	Buried high voltage cable in road and south of road in opening. Old comments- Sheep Ranch access site. Some signage within this stand.																																																							
37	622 - Lowland Shrub	Nonstocked	1.0		Immature	No	Low pocket along the road. Filled with tag alder and willow. Quaking aspen and jack pine filling in along the edges.																																																							
38	6118 - Lowland Deciduous with Cedar	Poletimber Medium	8.1	36	51-80	N/A	Merged 2 acre cedar stand (35) on east side of river with stand 38 to meet MIFI mapping standards. Stand is low right to river and entirely within 150' riparian buffer. Old comments-Cedar and white pine were left from previous harvest. White pine was more than likely sub-canopy judging by its poor form and lack of height. Stand 35 old comments: Sheep Pasture access site. Contains a turn around/parking area as well as signage and some minimal infrastructure. Located in a small cedar patch along the river.																																																							
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39	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	10.7	60	81-110	N/A	Stand has heavily browsed oak/cherry sub-canopy. Changed age from 85 to 60 years after coring red pine however, there are a few oaks that look 85. BA on hillside is around 100 and 50-80 on the flat up top. Old comments- Red pine and aspen along west aspect of the ridge that parallels the power line and in the river flat. Oak is primarily on top of the ridge and to the east. This is also where oak regeneration is the heaviest. Older aspen stems are deteriorating. Pine is recruiting to the canopy in spots primarily in lower areas closer to the river. Balsam fir is heaviest adjacent to the river.																																																							
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40	42121 - Planted Jack Pine, Mixed Deciduous	Sapling Well	31.8	27	Immature	N/A	Changed from 2 aged to even aged. Scattered older pine isn't enough to separate as it's own age class. Old comments- Harvest in 1995 as part of Sec. 16 Jack Block TS# 720079501. FTP for planting was sent to the District. Planted to JP in 1996. Scattered larger diameter red pine throughout this stand. PVCd.																																																							
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41	42120 - Planted Jack Pine	Poletimber Well	14.9	57	51-80	N/A	Changed age from 1960 origin to 1966. Oak sub-canopy high to full throughout. About 1.5 acres of jack pine planted north to south along Lovell Rd appear to be a few years older than rest of plantation. Some scattered dead/declining trees throughout are likely the result of tight spacing but, overall healthy stand.																																																							
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42	4125 - Black, N. Pin Oak	Poletimber Well	6.7	36	51-80	N/A	Oak responded well to clearcut.Old comments- Final harvested 7-31-1987 as part of Green Box Block TS# 720028601. Stand is on a very steep hill. PARHa/PArVVb. Left scattered red pine and a few white pine throughout.																																											
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43	4199 - Other Mixed Upland Deciduous	Sapling Poor	11.5	15	Immature	N/A	Switched stand from non forested to forested. Poorly stocked oak with cherry and scattered jack pine. Quite a bit of heavily browsed oak under 5' still.Old comments- Harvested 2-11-2008 as part of Sawmill Jack Pine TS# 720520501. FTP C72-589 but was never planted. Jack pine, n. pin oak, white pine, balsam fir under 2" were left. Some oak has stump sprouted and is variable in height.																																											
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44	122 - Road/Parking Lot	Nonstocked	6.1			No	F-97																																											
45	42120 - Planted Jack Pine	Poletimber Well	14.5	43	51-80	N/A	Healthy JP plantation.Old comments- Jack pine still has most of its lower lateral branches and is just becoming merchantable. Appears to be stagnating and may be vulnerable to jack pine budworm in the area.																																											
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46	42120 - Planted Jack Pine	Poletimber Well	59.5	43	1-50	N/A	Old comments- Jack pine still has most of its lower lateral branches and is just becoming merchantable. Appears to be stagnating and may be vulnerable to jack pine budworm in the area.																																											
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48	42210 - Natural Red Pine	Sawtimber Medium	6.6	55	51-80	N/A	Final harvested 3-31-1989 as part of Sno-Trac Pine Block TS# 720638701. Scattered clumped red pine was advanced regeneration left from the last harvest.																																											
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50	42120 - Planted Jack Pine	Poletimber Well	25.6	43	1-50	N/A	Jack pine plantation adjacent to Sno-Trac Village campground. A few rows of red pine were planted along east side of stand between campground and state. Old comments- Residual oak in the south part of stand were left for visual management. Jack pine still has low lateral branches. Planted in 1980. Appears to be stagnating and may be vulnerable to jack pine budworm in the area.																																		
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51	42110 - Planted Red Pine	Poletimber Medium	25.6	28	1-50	N/A	Split portion of stand south of Sno Track into new stand where jack pine dominates canopy. Red pine dominates canopy north of road and may have manageable portions in the future. East side of stand is more open but, still red pine dominates. Old comments- Final harvested 3-31-1989 as part of Sno-Trac Pine Block TS# 720638701. FTP for planting was sent to the District. Planted in 1995. Some mortality and weevil damage was recorded in 2003. Natural jack pine over-topped most of the red pine. Created a mixed pine covertype.																																		
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52	122 - Road/Parking Lot	Nonstocked	6.3			No	Power line/sno track road.																																		
53	42220 - Natural Jack Pine	Poletimber Medium	4.4	34	1-50	N/A	Open natural pine with scattered oak and red pine. Old comments- Final harvested 3-31-1989 as part of Sno-Trac Pine Block TS# 720638701. FTP for planting was sent to the District. This portion was never planted. Natural jack pine as well as residual red pine dominate this stand.																																		
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54	42141 - Planted Mixed Pine, Mixed Deciduous	Poletimber Well	18.2	50	81-110	N/A	Planted jack pine through scattered natural red pine. Pocket of older natural pine on steep west slope along private. Landowner in NW corner uses 2 track to access property. Poweline ROW cuts through stand. Old comments- Stand has a larger super-canopy component of oak and red pine than adjacent stands. Jack pine almost acts as the sub-canopy in this stand.																																		
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55	42260 - Natural Pine, Mixed Deciduous	Poletimber Poor	5.1	50	1-50	N/A	Changed from non forested to forested. Scattered open grown red pine with cherry/jack pine between. Old comments- Log size red pine are scattered throughout this stand along with some pole size jack pine. Open areas are cherry brush and blueberry.																																		
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56	4110 - Sugar Maple Association	Sapling Poor	18.6	6	Immature	N/A	Quite a bit of cherry competition and looks like it may be less than 80% ftg just doing walk-through.																																														
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57	42220 - Natural Jack Pine	Poletimber Medium	6.8	50	51-80	N/A	Changed from 2-aged to even aged. Old comments- Jack pine is open grown and maintaining a lot of its lower lateral branching. Mix of super-canopy red pine and n. pin oak as well.																																														
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58	42120 - Planted Jack Pine	Poletimber Well	19.7	50	51-80	N/A	Old comments- Planted in 1973. Scattered super-canopy oak throughout this stand along with a few red pine. Jack pine still have a few lateral branches.																																														
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60	122 - Road/Parking Lot	Nonstocked	8.6		Immature	No	Sawmill Trl and power line ROW.																																														
61	4130 - Aspen	Poletimber Medium	6.8	36	51-80	N/A	Small Aspen stand with open cherry brush and jack pine in middle																																														
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62	42120 - Planted Jack Pine	Poletimber Well	116.5	35	1-50	N/A	Final harvested 6-19-1987 as part of Fast Big Creek Blk. TS# 720088601. Strip of mature trees were left to the north, result of boundary adjustment. 3 acres along powerline not included in previous harvest counted as inclusion. Scattered oak stump sprouts throughout this stand.																																														
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63	6127 - Lowland Pine	Sawtimber Well	9.3	65	81-110	N/A	<p>Changed stand from upland to upland with lowland due to spp composition, hummacky ground, and alder in spots. Ground is transitional and looks pretty dry most places. Also, changed from even aged to two aged and dropped 2nd age from 99 to 86 after coring multiple trees. Dominant age class is pol/log size white pine and spruce at 65 years old. A couple legacy pines observed in stand as well. Old comments- Most of the red pine with in this stand is super-canopy. The main canopy is mostly white pine/aspens to the east and white pine/spruce to the west. The spruce within this stand has reached pole size diameter and is approximately 89 yrs old.</p>																																																							
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64	42290 - Natural Mixed Pine	Poletimber Medium	9.2	54	51-80	N/A	<p>Change from 2 aged to even aged. Some 86 year old scattered oaks and pines mixed in. Somewhat open mixed pine with some oak, aspen, and cherry in between. Aspen mostly in south.</p> <p>Old comments-Balsam fir component in the canopy as well as the sub-canopy.</p>																																																							
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65	42110 - Planted Red Pine	Sapling Poor	24.5	7	Immature	N/A	<p>Planted red pine looks healthy, most around 4' tall now. Seems to be more cherry competitors than oak. Old comments-Was cut in 2008 (#52-05). C72-749 chopped 2014, trenched 2015, planted to RP in 2016. Yr 1 regen survey June 2017 found 786 RP & 697 C-O tpa. Yr 3 regen survey Oct 2018 found 25% mortality and 82% FTG. 889 initial - 25% = 667 RP estimated stocking. Oak & BC were the primary competitors. FTP complete.</p>																																																							
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66	4133 - Aspen, Mixed Pine	Poletimber Well	18.9	54	81-110	N/A	<p>Stand is still pole size overall. Good mix of aspen with some older pine and oaks scattered throughout.</p> <p>Old comments- Some residual red pine and jack pine scattered throughout. Aspen varies in size and density depending on this residual timber. A balsam fir understory/canopy picks up in the east 1/4 of this stand as elevation drops. White and red pine become more dominant in the NE. Appear to be released sub-canopy individuals at the beginning of the rotation.</p>																																																							
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67	6129 - Mixed Coniferous Lowland Forest	Sawtimber Well	2.3	120	81-110	N/A	<p>(Old Comment: Bought by fish division for access to the river. Cedar declining, blow down damage as well. Grassy along river which provides good access for fisherman.)</p>																																																							
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
68	6124 - Lowland Spruce-Fir	Poletimber Medium	11.2	34	51-80	N/A	Stand has multiple seeps and creeks that originate in stand. Some large hawthorn shrubs observed. Some marginal ground but most is very wet. Tag alder openings throughout. (Old Comment: Stand was cut during the winter of 88'-89'. Some advanced pockets of aspen and conifer regeneration were left.) This stand is a little lower and contained more beaver activity than adjacent stands. Resulted in a less stocked stand with a lower aspen component. White pine becomes more prevalent to the south.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
White Pine		15	Pole	7		Tag Alder		Medium	5 - 10 feet	Tall Shrub
Quaking Aspen		15	Pole	7		Balsam Fir		Medium	< 5 feet	Sapling
Black Spruce		25	Pole/Sapling	5		Black Spruce		Low	< 5 feet	Sapling
Balsam Fir		45	Pole/Sapling	6	34	Black Cherry	Low	Variable	Tall Shrub	
70	4199 - Other Mixed Upland Deciduous	Sapling Poor	5.6	6	1-50	N/A	Stand harvested 2017, C285 #3 (#72-023-15). Stand failed to meet oak pine objective. Some desirable spp present but not tall enough to count yet. Some pole/log size white pine left scattered. Nat regen survey results as follows: Out of 5 plots taken, trees that meet minimum height reqs; 264 pine/ac, 22 oak/ac, 88 aspen/ac. There's also 88 oak/ac and 252 aspen/ac that are under 6' and can't be counted yet. Additionally, there's 352 cherry/ac. Old SI 45. (Old Comment: Poor quality oak. Majority of it is on a steep slope with a southern aspect. Some fuelwood cutters have been cutting the dead oak in the stand. YrO: 1906) Oak is rapidly declining.			
Canopy Species		% Cover	Size Class	DBH	Age					
White Pine		3	Pole/Log	9						
Northern Pin Oak		25	Sapling	1						
Jack Pine		1	Sapling	1						
Black Cherry		40	Sapling	1	6					
Quaking Aspen		30	Sapling	1						
Red Pine		1	Sapling	1						
71	622 - Lowland Shrub	Nonstocked	7.4			No	Open grassy lowland appears to be the result of beaver flooding. 3 small tributaries to Big Creek converge in stand. (Old Comment: Stand was cut during the winter of 88'-89'. Old beaver activity within this stand.) May be the reason for its non-forested condition. Cattail is growing across this stand but most of the ground cover is sedges. The old beaver damn is in the SW portion.			
Sub-Canopy Species		Density	Avg. Height	Size						
Cattail spp.		Low		Non-Wood						
Black Spruce		Low		Pole						
Balsam Fir		Low		Pole						
72	6112 - Lowland Aspen	Poletimber Well	10.5	34	51-80	N/A	Merged steep transition O8 stand (79) with stand 72 to meet MIFI mapping standards. Wood must have been hauled out west through stand 68 when previously harvested. (Old Comment: Stand was cut during the winter of 88'-89'. Some advanced pockets of aspen and conifer regeneration was left. Stand was cut very close to the river.) Nice wildlife stand. Stand 79 previous comments: Old SI 45. (Old Comment: Poor quality oak. Majority of it is on a steep slope with a southern aspect. Some fuelwood cutters have been cutting the dead oak in the stand. YrO: 1906) Oak is rapidly declining.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Black Spruce		2	Sapling	4		Red Maple		Low	5 - 10 feet	Sapling
Balsam Fir		36	Pole/Sapling	5		Balsam Fir		High	Variable	Sapling
Black/Red (Hybrid) Oak		2	Log/XLog	16		Alder		Trace	5 - 10 feet	Tall Shrub
Quaking Aspen		60	Pole	7	34	Black Spruce	Low	Variable	Sapling	
73	6123 - Lowland Fir	Poletimber Well	7.1	34	51-80	N/A	Looks like southern portion wasn't harvested with the rest of stand. South contains more red maple, white pine, cedar. Old comments- Stand regenerated nicely. Diversity of the prior stand seems to be intact except beaver activity eliminated or reduced the aspen component along the river. Stand is now within the natural river zone.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Tamarack		2	Pole	6		White Pine		Low	Variable	Sapling
Red Maple		5	Log	12		Black Spruce		Low	Variable	Sapling
Balsam Fir		61	Pole	7	34	Balsam Fir		High	Variable	Sapling
Northern White Cedar		5	Log	15		Tag Alder		Medium	5 - 10 feet	Tall Shrub
Quaking Aspen		10	Pole	7						
White Pine		7	Pole	7						
Black Spruce		10	Pole/Sapling	5						



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76	6220 - Alder/willow	Nonstocked	6.2			No	Big Creek and associated wetland. (Old Comment: Beaver activity in 1993.) Stand has some sparse quaking aspen and lowland conifers in it but most of the ground cover is in lowland shrub or sedges.																																									
77	6123 - Lowland Fir	Poletimber Well	3.6	70	51-80	N/A	Only about 3 acres of merch lowland timber cut off by creek and private property. Small piece of upland on slope. Estimated age to be 70. Old comments-Balsam/white pine understory. Oak and aspen is declining.																																									
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122	310 - Herbaceous Openland	Nonstocked	3.6	0		No	Opening with mostly grass and sweet fern split from parent stand 22. Stand has scattered cherry/oak/pine similar to stand 24. Prairie willow scattered throughout as well.																																									
151	42120 - Planted Jack Pine	Sapling Poor	14.0	34	1-50	N/A	Merged a small 61 year old J6 stand (stand 49, west of road) with stand 151 to meet MIFI mapping standards. Stand 151 was split from stand 51 to the north. Both sides of road were treated at the same time but, south side had significantly more mortality. Stand looks like a failed red pine plantation that is very open and dominated by natural jack pine. Old comments- Final harvested 3-31-1989 as part of Sno-Trac Pine Block TS# 720638701. FTP for planting was sent to the District. Planted in 1995. Some mortality and weevil damage was recorded in 2003. Natural jack pine over-topped most of the red pine. Created a mixed pine coverytype. Stand 49 previous comments: (Old Comment: Treatment Limiting Factored due to scenic values/visual values and small acerage.) Mix of jack pine and red pine. Red pine along with a few jack pine stems are older. One or two aspen pockets with in this stand.																																									
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