



Compartment Review Presentation

Gwinn Forest Management Unit

Compartment 32103

Entry Year 2023

Acreage: 1,707

County Alger

Management Area: Chatham-Autrain Moraines

Revision Date: 2021-08-03

Stand Examiner: Peter Holodnick

Legal Description:

T45N R22W Section 5, 8, 17

Identified Planning Goals:

To maintain and enhance biological diversity, forest health and sustainability, while providing for timber, wildlife, fisheries and recreational needs.

Soil and topography:

McMaster-Davies Complex around creek corridors with Carbondale-Lupton-Tawas muck lowlands and Shoepac-Ensley, Shoepac-Trenary, Chatham fine sand loams on uplands.

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

There is state owned land to the east and west of the compartment, with private land interspersed.

Unique Natural Features:

None known.

Archeological, Historical, and Cultural Features:

None known.

Special Management Designations or Considerations:

None known.

Watershed and Fisheries Considerations:

This compartment contains the West Branch of the Whitefish River, McMaster Creek, and several unnamed streams that serve as tributary to the West Branch of the Whitefish River. The West Branch of the Whitefish River is designated a Type 1 trout stream greater than 50' width and has a predicted mean July temperature that ranges from 63.7 to 65.3 °F (cold stream). 100' plus 5' per 1% increase in slope; buffers are recommended for the West Branch of the Escanaba River to protect riparian areas in accordance with Best Management Practices.

McMaster Creek and the unnamed streams that serve as tributary to the West Branch of the Whitefish River are designated Type 1 trout streams less than 50' width and have mean July temperatures that range from 61.2 to 63.7 °F (cold streams). 300' buffers are recommended for McMaster Creek and the unnamed streams in riparian areas susceptible to Aspen regeneration. For areas not susceptible to Aspen regeneration, 100' plus 5' per 1% increase in slope; buffers are recommended to protect these areas in accordance with Best Management Practices.

Wildlife Habitat Considerations:

Compartment 103 is found within the Chatham/AuTrain Management Area; on a Fluted Ground Moraine in northeastern Marquette County and western Alger County. The dominant Natural Communities are mesic northern forests and poor conifer swamps. This Management Area provides one of the best opportunities in the WUP State Forest system to manage for large grasslands and associated wildlife species. Large opening management, along with sharecropped agricultural practices will continue to be a high priority here. Wildlife management issues in this management area will focus on maintaining large open land complexes; habitat fragmentation (patch size for openings); and mowing and burning practice modifications (for the eastern compartments).

The following have been identified as featured species for the Chatham/AuTrain Management Area: bobolink, Canada goose, northern goshawk, and sharp-tail grouse.

Mineral Resource and Development Concerns and/or Restrictions

Compartment 103 Sections 5, 8, & 17, T45N-R22W, Alger County

No known potential exists for commercial oil & gas production in this part of the state. Two active sand/gravel/limestone pits occur within two miles of the compartment. Bedrock limestone/dolomite is at or near the surface across much of the area, and there is potential for production of both sand & gravel and limestone in the area. Due to surface waters, there

may be limited potential for surface mining within the compartment. There is no known potential for metallic minerals beneath the compartment, and there is no history of leasing of State-owned mineral rights in the compartment. The State does not own all the mineral rights within the compartment. Because the mineral estate is the dominant estate, reasonable access to the surface must be provided to private owners if they choose to explore or develop their mineral rights.

Vehicle Access:

Good access from north via M-94 and S. Sundell Road. Creek crossings required to access portions of the compartment.

Survey Needs:

None at this time.

Recreational Facilities and Opportunities:

There are no recreational facilities. Hunting, fishing and gathering occur here.

Fire Protection:

Fire risk is low.

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

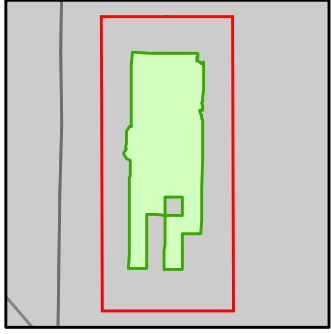


Age Class

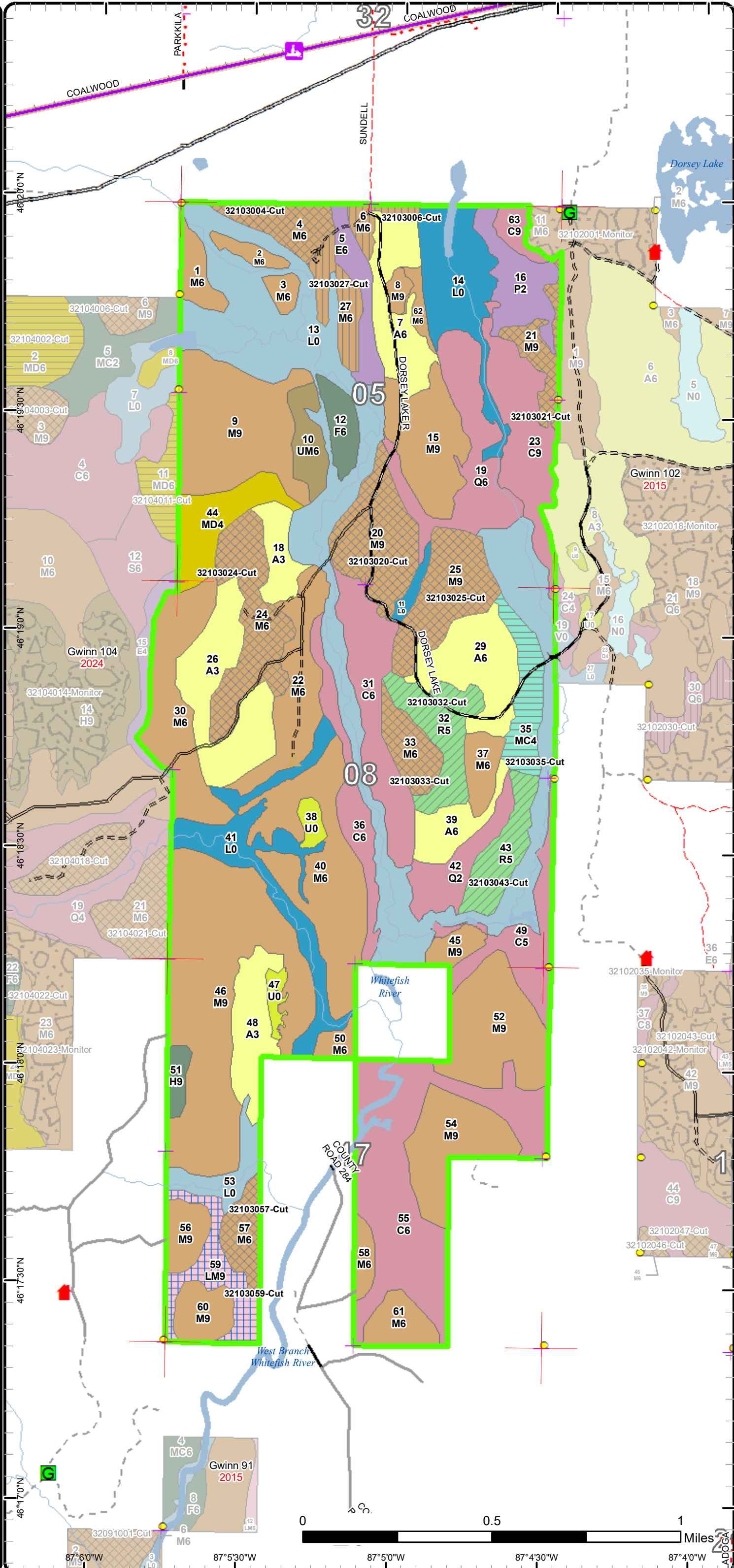
	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	0	0	84	82	0	0	0	0	0	0	0	0	0	0	0	0	0	166
Cedar	0	0	0	0	0	0	0	0	0	66	0	124	49	0	0	0	0	0	239
Hemlock	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	6
Low-Density Trees	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
Lowland Aspen/Balsam Poplar	0	0	0	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24
Lowland Conifers	0	0	0	20	0	0	0	0	0	0	43	0	0	0	0	0	0	0	63
Lowland Deciduous	0	0	0	0	0	0	0	0	0	16	0	0	0	0	0	0	0	0	16
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23	23
Lowland Shrub	299	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	298
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26	26
Northern Hardwood	0	0	0	0	0	5	0	0	0	163	61	25	0	0	0	0	0	491	744
Red Pine	0	0	0	0	48	0	0	0	0	0	0	0	0	0	0	0	0	0	48
Upland Conifers	0	0	0	0	21	0	0	0	0	0	0	0	0	0	0	0	0	0	21
Upland Mixed Forest	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14	14
Upland Spruce/Fir	0	0	0	0	0	0	0	0	0	11	0	0	0	0	0	0	0	0	11
Total	308	0	0	128	151	5	0	0	0	174	143	74	124	49	0	0	0	554	1708

Cover Type & Treatments Map

Compartment: 103
 T45N, R22W, Sec. 05, 08, 17
 County: Alger
 Unit: Gwinn
 Mgmt Area: Chatham-Autrain Moraines
 YOE: 2023
 Acres: 1707.4 GIS Calculated
 Examiner: Peter Holodnick
 Map Revised: 8/20/2021
 Map Phase: Review

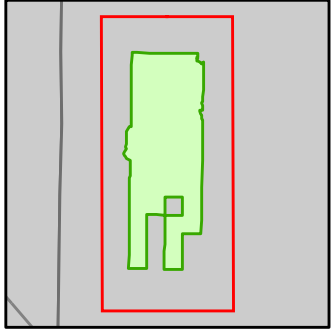


- Miris Corners
- Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Paved Road
- Private - Dirt / Gravel Road
- Snowmobile Trails
- Designated Snowmobile Trails
- Designated RailTrail
- Island in Lake or River
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Cabin
- Berms
- Gate
- Bridges
- Pipeline
- Compartment Boundary
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- Seed Tree (w/Reserves)
- Thinning (Crown, Low, Systematic)
- Shelter Wood (w/Reserves)
- 411 - Northern Hardwood
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 330 - Low Density Trees
- 622 - Lowland Shrub
- 629 - Mixed Non-forested Wetland

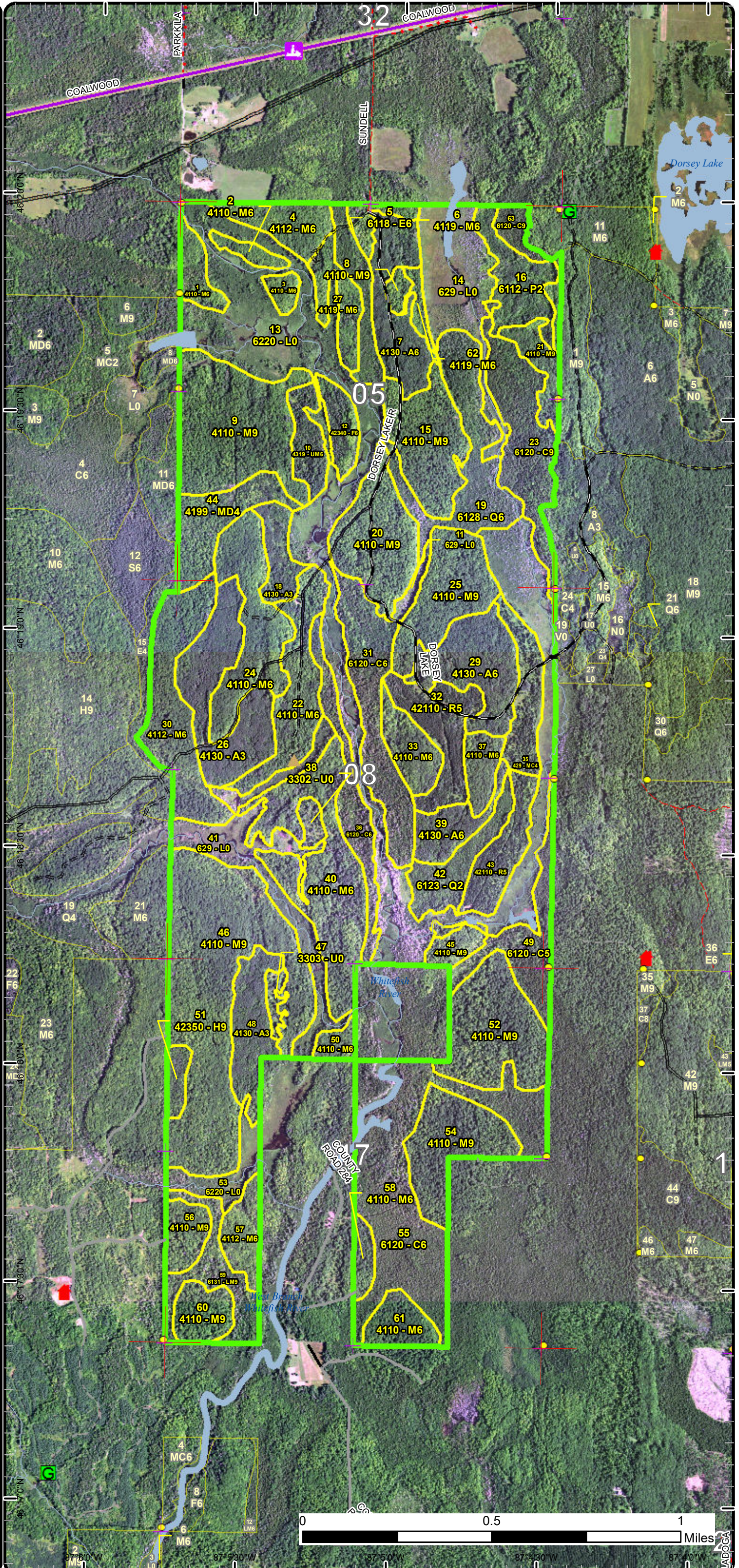


Stand Boundary Map

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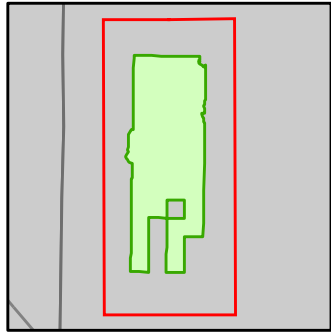
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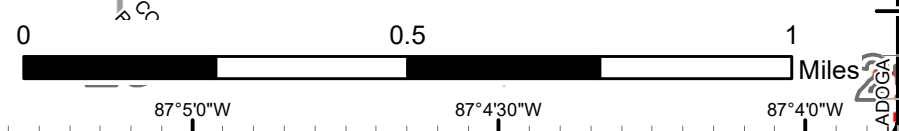
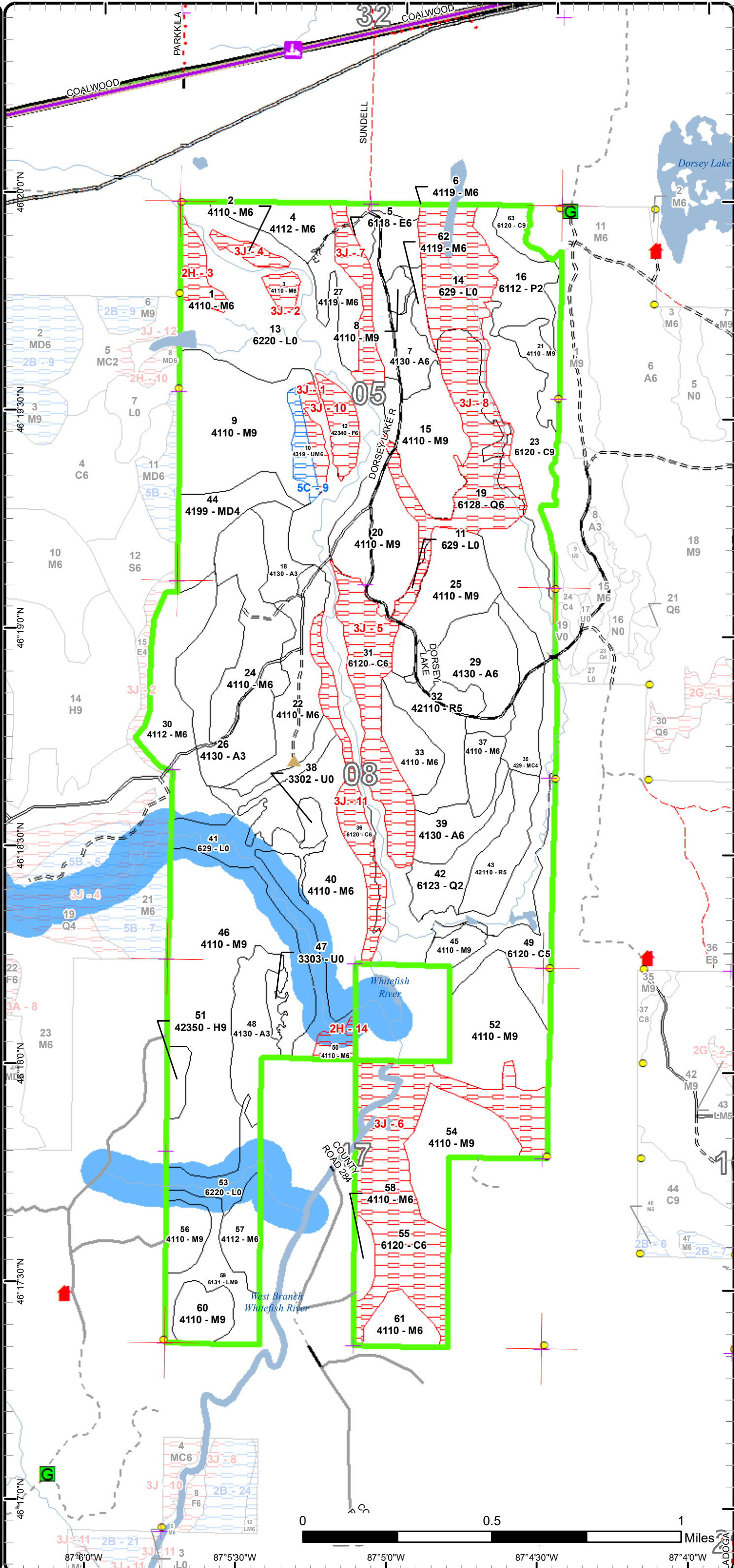
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Special Conservation Areas

Compartment: 103
 T45N, R22W, Sec. 05, 08, 17
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- Cabin
- ▲ Berms
- G Gate
- Bridges
- Pipeline
- Compartment Boundary
- Available w/ Constraints
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Unavailable
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 3J: Water quality / BMPs (stream, river, or lake)
- Stand Boundaries
- SCA
- Wild & Scenic Rivers (USFS Lands)
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer
- Rail-Trail Corridor





Report 2 – Treatment Summary

Gwinn Mgt. Unit

Year of Entry: 2023

Acres of Harvest

Compartment 103
Total Compartment Acres: 1,707

Commercial Harvest - 292
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
Lowland Mixed Forest	0	0	0	23	0	0	0	0	0	23
Northern Hardwood	0	178	0	0	23	0	0	0	0	201
Red Pine	0	0	0	0	0	48	0	0	0	48
Upland Conifers	21	0	0	0	0	0	0	0	0	21
Total	21	178	0	23	23	48	0	0	0	293

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	293	0	0	0	0	0	0	0	0	293
Next Step	0	0	0	21	0	0	244	0	0	265
Total	293	0	0	21	0	0	244	0	0	557



Stand Name	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 Treatments:

4	32103004-Cut	17.7	4112 - Maple, Beech, Cherry Association	Poletimber Well	85	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Even-Aged	No
<u>Prescription</u> Target BA of 80. Mark to improve quality of stand and to increase species diversity. Create regen gaps.											
<u>Specs:</u>											
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)											
<u>Treatments:</u>											
<u>Acceptable</u> A mix of hardwood species currently found on site with some conifers.											
<u>Regen:</u>											
<u>Other Comment:</u>											
<u>Site Condition</u>											
Proposed Start Date: 10/1 /2022											
6	32103006-Cut	7.2	4119 - Mixed Northern Hardwoods	Poletimber Well	94	81-110	Harvest	Shelterwood with Retention	4319 - Mixed Upland Forest	Two-Aged	No
<u>Prescription</u> Retain 40-60 BA of the best quality trees on site, emphasizing species diversity. Residual BA should be at the high end of the range where tree quality is higher, and may dip below 40 in portions of the stand as applicable. Retain all Cedar and Hemlock.											
<u>Specs:</u>											
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)											
<u>Treatments:</u>											
<u>Acceptable</u> any mix of hardwood and conifer species currently on site											
<u>Regen:</u>											
<u>Other Comment:</u>											
<u>Site Condition</u>											
Proposed Start Date: 10/1 /2022											
20	32103020-Cut	38.9	4110 - Sugar Maple Association	Sawtimber Well	99	81-110	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<u>Prescription</u> Thin to an average of 80 BA, focusing on improving stand quality and improving regen gaps. Increase species diversity where possible.											
<u>Specs:</u>											
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)											
<u>Treatments:</u>											
<u>Acceptable</u> a mix of hardwood species with some conifer											
<u>Regen:</u>											
<u>Other Comment:</u>											
<u>Site Condition</u>											
Proposed Start Date: 10/1 /2022											
21	32103021-Cut	15.1	4110 - Sugar Maple Association	Sawtimber Well	99	141-170	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<u>Prescription</u> Mark stand to 70-90 BA. Focus on improving quality while maintaining target BA. Remove all merchantable spruce/fir. Leave some large future snag trees for wildlife. Favor species diversity, especially basswood and yellow birch, while marking.											
<u>Specs:</u>											
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)											
<u>Treatments:</u>											
<u>Acceptable</u> northern hardwood											
<u>Regen:</u>											
<u>Other Comment:</u>											
<u>Site Condition</u>											
Proposed Start Date: 10/1 /2022											

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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
24	32103024-Cut	41.0	4110 - Sugar Maple Association	Poletimber Well	85	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Thin to an average of 80 BA, focusing on improving stand quality and improving regen gaps. Increase species diversity where possible.</p> <p><u>Specs:</u> Mark regen pockets around high quality cherry. Favor cherry to keep in the stand.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> any tree species currently in the overstory is acceptable.</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 /2022</p>											
25	32103025-Cut	35.3	4110 - Sugar Maple Association	Sawtimber Well	88	81-110	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Thin to an average of 80 BA, focusing on improving stand quality and improving regen gaps. Increase species diversity where possible.</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> a mix of hardwood regeneration with some conifer</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 /2022</p>											
27	32103027-Cut	15.3	4119 - Mixed Northern Hardwoods	Poletimber Well	100	81-110	Harvest	Shelterwood with Retention	4319 - Mixed Upland Forest	Two-Aged	No
<p><u>Prescription</u> Retain 40-60 BA of the best quality trees on site, emphasizing species diversity. Residual BA should be at the high end of the range where tree quality is higher, and may dip below 40 in portions of the stand as applicable. Retain all Cedar and Hemlock.</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> any mix of hardwood or conifers currently on site</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 /2022</p>											
32	32103032-Cut	27.8	42110 - Planted Red Pine	Poletimber Medium	34	171-200	Harvest	Systematic Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Third row thin red pine. Take more trees from the closest row if need be for operability.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Red Pine</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 /2022</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 32103033-Cut	15.9	4110 - Sugar Maple Association	Poletimber Well	95	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Thin to an average of 80 BA, focusing on improving stand quality and improving regen gaps. Increase species diversity where possible.</p> <p><u>Specs:</u> Mark regen pockets around high quality cherry. Favor cherry to keep in the stand. There is varying BA's so there might be some walk through areas.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> any tree species currently in the overstory is acceptable.</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 /2022</p>										
35 32103035-Cut	20.7	429 - Mixed Upland Conifers	Poletimber Poor	34	51-80	Harvest	Clearcut	4319 - Mixed Upland Forest	Even-Aged	No
<p><u>Prescription</u> Clearcut no retention to help facilitate regeneration.</p> <p><u>Specs:</u> If natural regeneration fails, seed with spruce and/or jack pine.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory); Seeding, Hand Seed</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> A mix of species naturally occurring in this area, such as aspen, maple, cherry, fir, and spruce.</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 /2022</p>										
43 32103043-Cut	20.6	42110 - Planted Red Pine	Poletimber Medium	34	111-140	Harvest	Systematic Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Third row thin red pine. Take more trees from the closest row if need be for operability. Focus your marking on the other species in the overstory if in your row.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Red Pine</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 /2022</p>										
57 32103057-Cut	14.2	4112 - Maple, Beech, Cherry Association	Poletimber Well	95	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Thin to an average of 80 BA, focusing on improving stand quality and improving regen gaps. Increase species diversity where possible.</p> <p><u>Specs:</u> Mark regen pockets around high quality cherry.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Any tree species currently in the overstory is acceptable.</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 /2022</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
59 32103059-Cut	22.8	6131 - Hemlock, White Pine, Maple, Birch	Sawtimber Well	97	111-140	Harvest	Seed Tree with Retention	613 - Lowland Mixed Forest	Even-Aged	No
<p><u>Prescription</u> Cut all but Hemlock, Cedar, White Pine. Green tree a few yellow birch to keep in the stand. Leave 3-10% retention</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> Any tree species currently in the overstory is acceptable.</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 /2022</p>										

Total Treatment 292.5
Acreage Proposed:

Report 4 – Site Conditions

Gwinn Mgt. Unit

Compartment: 103

Peter Holodnick: Examiner

Year of Entry: 2023

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	5C	2H	3J
		With Condition	Not Available				
166	166	0	0	Aspen			
239	74	0	165	Cedar			165
6	6	0	0	Hemlock			
9	9	0	0	Low-Density Trees			
24	24	0	0	Lowland Aspen/Balsam Poplar			
63	20	0	43	Lowland Conifers			43
16	0	0	16	Lowland Deciduous			16
23	23	0	0	Lowland Mixed Forest			
299	250	0	48	Lowland Shrub			48
26	26	0	0	Mixed Upland Deciduous			
744	718	0	26	Northern Hardwood		16	11
48	48	0	0	Red Pine			
21	21	0	0	Upland Conifers			
14	0	7	7	Upland Mixed Forest	7		7
11	0	0	11	Upland Spruce/Fir			11
1,707	1,384	7	317	Total Forested Acres	7	16	301
	81%	0%	19%	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	3J: Water quality / BMPs (stream, river, or lake)	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments: There needs to be a 300ft buffer on the stream between stands 10 and 12. Lots of beaver activity in this area							
2	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	5	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	Unspecified	Unspecified	Unspecified
Comments: Watershed protection: hardwood island within riparian corridor of Whitefish River, which is classified as a cold water trout stream. Provide mature forest structure in the form of standing and dead and down coarse woody debris and large legacy old growth trees for wildlife.							

Report 4 – Site Conditions

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Compartment: 103

Peter Holodnick: Examiner

Year of Entry: 2023

3	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	10	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: SCA - Watershed protection: Hardwood knob surrounded by riparian zone of Whitefish River, which is classified as a cold water trout stream. Wildlife corridor. Provide forest structure in the form of standing and dead and down coarse woody debris.</p>							
4	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	5	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	Unspecified	Unspecified	Unspecified
<p>Comments: Watershed protection: hardwood island within riparian corridor of Whitefish River, which is classified as a cold water trout stream. Provide mature forest structure in the form of standing and dead and down coarse woody debris and large legacy old growth trees for wildlife.</p>							
5	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	43	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
<p>Comments: Primarily cedar stand which borders creek/drainage.</p>							
6	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	96	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: SCA - No activity within 500' - riparian corridor to protect Whitefish River, which is classisified as a cold water trout stream. Protect other watershed values and provide for wildlife travel, thermal cover.</p>							
7	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	16	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments:</p>							
8	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	93	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments:</p>							

Report 4 – Site Conditions

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Compartment: 103

Peter Holodnick: Examiner

Year of Entry: 2023

9	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	7	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: there is a huge beaver damn that will need to be navigated to get the wood out. Treat with stand 9.</p>							
10	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	11	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: 300ft buffer on this stand. Lots of beaver activity.</p>							
11	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	25	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
<p>Comments: Primarily cedar stand which borders creek/drainage.</p>							
14	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	6	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments:</p>							

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 Lake	A coldwater lake has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species to persist from year to year. Suitable conditions for coldwater fishes may occur in Michigan lakes if they are relatively deep, have substantial groundwater inflows, or are located in colder (northern) areas of the state. Such lakes are established by Director's action and designated as trout resources by Fisheries Order 200.
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	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.
SCA	Wild and Scenic Rivers	Wild and Scenic Rivers are established under authority of the National Wild and Scenic Rivers Act, Public Law 90-542, as amended. Each Wild and Scenic River has a river specific Federal management plan, and State agencies may enter into written cooperative agreements with the administering Federal agency for the management of Wild and Scenic Rivers that are upon State-owned lands. There are 18 miles of Federal designated Wild and Scenic Rivers that are located within the State Forest.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																				
1	4110 - Sugar Maple Association	Poletimber Well	10.1	100	81-110	N/A	20021: stand was not visited. 2011: Stand is inaccessible across the Whitefish River and/or private lands, terrain. Listed as potential old growth last entry. SCA - riparian corridor.																																																																				
2	4110 - Sugar Maple Association	Poletimber Well	5.3	100	81-110	N/A	2021: Did not visit this stand. All data is from 2011.																																																																				
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3	4110 - Sugar Maple Association	Poletimber Well	4.7	100	81-110	N/A	2021: Did not visit this stand. All data is from 2011.																																																																				
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4	4112 - Maple, Beech, Cherry Association	Poletimber Well	17.7	85	111-140	N/A	2021: Dense SM regen all less than 3' ht.																																																																				
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5	6118 - Lowland Deciduous with Cedar	Poletimber Well	15.7	94	81-110	N/A	Creeks/drainages within stand.																																																																				
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6	4119 - Mixed Northern Hardwoods	Poletimber Well	7.2	94	81-110	N/A	2021: Corner in place on north near road. Some old blue paint along line. Stand drops off to west to lower/wetter ground. Variable density and species composition.																																																																					
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						2011: "Dorsey Lake Hardwood" sale #223-04 (unit 1) - cut Oct, 2005. 1 - 2' maple regeneration started. Some dead cherry stems and dieback in maple tops noted. Stand now includes some adjacent lands (heavier conifer component along lowland type edge, and also trace amounts of aspen and red maple), which were purchased in 2009.																																																																						
7	4130 - Aspen	Poletimber Well	30.6	35	81-110	N/A	Large stand so somewhat variable. some areas with more conifers.																																																																					
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9	4110 - Sugar Maple Association	Sawtimber Well	63.6	88	51-80	N/A	"McMaster Creek Hardwoods" #020-03 (Units 2-6) - cut Fall, 2004. Mid to poor quality hardwoods. There is a large beaver damn to the south which prohibits trucking from the south. There is still plenty of room for the canopies to grow in. Average BA of 60 (2021).																																																																					
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10	4319 - Mixed Upland Forest	Poletimber Well	13.7	67	51-80	N/A	Slight ridge of hardwood with heavier conifer component. There is a stream that runs between stand 10 and 12 and flows into the Whitefish River.																																											
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11	629 - Mixed non-forested wetland	Nonstocked	3.9	0		No	cattails, sedge/grasses and scattered lowland brush - was once cedar but flooding killed it																																											
12	42340 - Upland Spruce/Fir	Poletimber Well	11.2	89	Unspecified	N/A																																												
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13	6220 - Alder/willow	Nonstocked	193.9			No	The western arm of this stand contains the W. Branch Whitefish River. This is a long, linear wetland complex that varies from patches of now-dead cedar on the edges, dense tag alder, sparse areas featuring submerchantable conifers mixed with deciduous brush, and wide-open wet meadows. Site indices for commercial tree species are universally low. Evidence of fluctuating water levels - both seasonally and over a much longer cycle - can be seen throughout.																																											
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14	629 - Mixed non-forested wetland	Nonstocked	42.3			No	Lowland complex heavy to marsh and patches of slow-growing cedar. Much of the cedar reached merchantable size but is dead/dying due to variable flooding. Patches of lowland brush of varying species & density also present.																																											
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15	4110 - Sugar Maple Association	Sawtimber Well	37.1	100	81-110	N/A	2121: BA ranges 80-110. Nice stand, dense maple regen. "Sundell Block" #028-93 (unit 3) - cut Fall, 1997																																											
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16	6112 - Lowland Aspen	Sapling Medium	23.7	22	Immature	N/A	Low flat of mainly mixed aspen species. and some hardwood saplings along edges or on slight elevation humps within. Small marshy patches within have some cattail and alder in them."Sundell Block" #028-93 (Unit 1) - cut August, Sept, 1998.																																																													
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18	4130 - Aspen	Sapling Well	13.5	23	Unspecified	N/A	"Whitefish Hardwood Sale" #033-93 (unit 3) - cut ~1997.																																																													
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19	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	43.3	105	81-110	N/A	2021: Variable canopy closure and species composition. Drainages/creeks within the stand. 2011: cattails, sedge and grasses within																																																													
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20	4110 - Sugar Maple Association	Sawtimber Well	38.9	99	81-110	N/A	2021: Dense sugar maple regen. Survey corner found near road. BA is variable form 70-120, averaging 100-110. 2011: part of "Dorsey Lake Hardwoods" #223-04 (units 2-5) - cut Fall, 2005. Not much maple regeneration noted yet - still canopy gaps; pockets of QA regeneration have been established. Stand contains some higher knobs of hardwoods; rocky grounds. Sawlog maple is overmature and heavily defective - low quality. Cavity snags present. Trace amounts of red maple, paper birch; white spruce and balsam fir near edges. Wait at least another 10 years to treat.																																																													
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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21	4110 - Sugar Maple Association	Sawtimber Well	15.1	99	141-170	N/A	Very dense hardwood stand. Moderate to better quality with a lot of poor quality trees mixed in. Average small sawlog sized trees with a lot of poles mixed in. Some patchy lowland conifer veins along edges may need to be excluded from future harvests. 150, 130, 170, 170, 140 Average of 150 BA. Part of sale #034-95 (C. 102)			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
	Sugar Maple	81	Log/Pole	12	99		Sugar Maple	Low	Variable	Sapling
	Red Maple	5	Pole/Log	9			Balsam Fir	Low	Variable	Sapling
	Black Cherry	2	Pole/Log	9						
	Balsam Fir	1	Pole/Sapling	5						
	Northern White Cedar	3	Log/Pole	12						
	Black Spruce	2	Pole/Log	9						
	Yellow Birch	3	Log/Pole	11						
	Basswood	3	Log/Pole	12						

22	4110 - Sugar Maple Association	Poletimber Well	34.0	95	51-80	N/A	"Whitefish Hardwood Sale" #033-93 (unit 4) - thinned 1996-97 and "McMaster Creek Hardwoods" #020-03 (unit 1) - cut Oct, 2004.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
	Sugar Maple	85	Pole	8	95		Sugar Maple	Medium	10 - 20 feet	Sapling
	Red Maple	3	Pole	8			Balsam Fir	High	5 - 10 feet	Seeding
	Basswood	5	Pole/Log	10			White Spruce	High	5 - 10 feet	Seeding
	Balsam Fir	2	Pole	6			Ironwood	Low	10 - 20 feet	Sapling
	Black Cherry	5	Pole	9						

23	6120 - Lowland Cedar	Sawtimber Well	41.7	124	111-140	N/A	Dense cedar with patchy lowland hardwood areas.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
	Balsam Fir	5	Pole/Sapling	6			Alder	Low	5 - 10 feet	Tall Shrub
	Black Spruce	10	Pole/Log	9			Balsam Fir	Medium	Variable	Sapling
	Northern White Cedar	70	Log/Pole	11	124					
	Balsam Poplar	5	Pole	8						
	Black Ash	3	Pole	8						
	Paper Birch	5	Pole	8						
	Yellow Birch	2	Pole/Log	9						

24	4110 - Sugar Maple Association	Poletimber Well	41.0	85	111-140	N/A	"Whitefish Hardwood Sale" #033-93 (unit 4) - cut August, 1996			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
	Sugar Maple	81	Log/Pole	12	85		Sugar Maple	High	< 5 feet	Seeding
	Black Cherry	12	Pole	8			Balsam Fir	Low	Variable	Sapling
	Ironwood	2	Pole	6			White Spruce	Low	< 5 feet	Seeding
	Red Maple	5	Log/Pole	12			Ironwood	Medium	< 5 feet	Seeding



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25	4110 - Sugar Maple Association	Sawtimber Well	35.3	88	81-110	N/A	2021: Dense sugar maple regen. Variable BA ranging from 70-120, averaging 100-110. 2011: "Dorsey Lake Hardwood" #223-04 (unit 6-8) - cut Fall, 2005. Trace amounts of aspen, paper birch. and black cherry; heavy raspberry brush. Small (2' ht) sugar maple regeneration started. Still plenty of canopy gaps.																																																												
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27	4119 - Mixed Northern Hardwoods	Poletimber Well	15.3	100	81-110	N/A	2021: Variable species mixture and density. Better quality trees on higher ground. 2011: Stand is currently firewood quality only; clumps and multiple stems. A few large wildlife snag trees; trace amounts of fir, elm and ironwood noted. Maple regeneration varies in height, although quite a bit is in the 10 - 30' range. Balsam fir is mainly along lower stand edges.																																																												
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30	4112 - Maple, Beech, Cherry Association	Poletimber Well	45.5	84	81-110	N/A	"McMaster Creek Hardwoods" #020-03 (Units 7 ,8) - cut August, 2004 and Oct, 2004. Trace amount of yellow birch noted.																																																												
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31 6120 - Lowland Cedar Poletimber Well 42.7 99 81-110 N/A Some areas thicker to S/F

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	5	Pole	7	
Balsam Fir	10	Pole/Sapling	5	
Black Spruce	25	Pole	7	
Northern White Cedar	60	Pole	8	99

32 42110 - Planted Red Pine Poletimber Medium 27.8 34 171-200 N/A C32-389: trench, herbicide and hand plant 2-0 RP - Sp, 1988.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	4	Pole	6		Balsam Fir	Low	< 5 feet	Seeding
Balsam Fir	2	Sapling/Pole	5		Red Pine	Low	10 - 20 feet	Sapling
White Spruce	2	Sapling/Pole	5		Black Cherry	Medium	5 - 10 feet	Tall Shrub
Red Pine	90	Pole	8	34	Blackberry/Raspberry	Low	< 5 feet	Tall Shrub
Black Cherry	2	Sapling	4					

33 4110 - Sugar Maple Association Poletimber Well 15.9 95 111-140 N/A "Sundell Block" #028-93 (unit 3) - cut Fall, 1995

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	93	Pole/Log	9	95	Sugar Maple	Medium	>20 feet	Sapling
Black Cherry	2	Pole	8		Balsam Fir	Low	Variable	Sapling
Red Maple	5	Pole/Log	8		Black Cherry	Low	< 5 feet	Sapling
					Leatherwood	Medium	< 5 feet	Tall Shrub

35 429 - Mixed Upland Conifers Poletimber Poor 20.7 34 51-80 N/A Aspen clones with poorly stocked red pine - old grass type with bracken fern.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	10	Pole	8		White Spruce	Low	5 - 10 feet	Sapling
Quaking Aspen	20	Pole	7					
Balsam Fir	20	Pole	7					
White Spruce	20	Pole	9					
Red Pine	20	Pole	6	34				
Black Cherry	10	Sapling/Pole	4					

36 6120 - Lowland Cedar Poletimber Well 23.2 99 Unspecified N/A Some areas thicker to S/F

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	2	Pole	9		Sugar Maple	Low	10 - 20 feet	Sapling
Balsam Fir	16	Pole/Sapling	6		Balsam Fir	High	Variable	Sapling
White Spruce	10	Pole/Log	10		Tag Alder	Low	< 5 feet	Tall Shrub
Black Spruce	10	Pole	6					
Northern White Cedar	60	Pole	8	99				
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39	4130 - Aspen	Poletimber Well	15.5	35	51-80	N/A	"W. Branch Whitefish River" #016-84 (unit 3) - cut 1985-86.																																										
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40	4110 - Sugar Maple Association	Poletimber Well	64.0	85	51-80	N/A	"McMaster Creek Hardwoods" #020-03 (units 9 - 12) - cut July-August, 2007. Slight ridges with occasional knobs. Trace amounts of paper birch, red maple and cedar.																																										
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42	6123 - Lowland Fir	Sapling Medium	19.9	24	Unspecified	N/A	"Sundell Block" #028-93 (unit 2) - cut F, 1995																																										
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43	42110 - Planted Red Pine	Poletimber Medium	20.6	34	111-140	N/A	Lots of mixed species within red pine stand.																																																																								
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44	4199 - Other Mixed Upland Deciduous	Poletimber Poor	25.5	85	1-50	N/A	"McMaster Creek Hardwoods" #020-03 (Units 2-6) - cut Fall, 2004. A beaver city has moved into this area. There is no road access from the south anymore and lots of timber is getting swamped out 2021.																																																																								
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48	4130 - Aspen	Sapling Well	25.4	24	Unspecified	N/A	"McMaster Creek Hardwood" #029-93 (unit 5) - cut 1996-97.																																																						
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49	6120 - Lowland Cedar	Poletimber Medium	28.4	119	Unspecified	N/A	portion of stand harvested as "Old Bridge Hardwood" #224-04 (Unit 1,2) - completed Dec, 2006																																																						
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Black Ash	2	Pole/Sapling	5																																																										
50	4110 - Sugar Maple Association	Poletimber Well	5.6	89	111-140	N/A	Small stand, fairly inaccessible due to surrounding low grounds.																																																						
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51	42350 - Upland Hemlock	Sawtimber Well	6.2	100	Unspecified	N/A	Hemlock area within hardwoods.																																																						
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52	4110 - Sugar Maple Association	Sawtimber Well	46.6	105	51-80	N/A	"Old Bridge Hardwood" sale #224-04 (unit 4,5) - cut Sept - Dec, 2005. Trace amounts of paper birch, cedar and white spruce.																																																						
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																											
53	6220 - Alder/willow	Nonstocked	14.1		Unspecified	No	contains fork of (McMaster or W. Branch Whitefish) Creek/River																											
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White Spruce	Trace		Pole																															
54	4110 - Sugar Maple Association	Sawtimber Well	35.6	105	51-80	N/A	"Old Bridge Hardwood" sale #224-04 (unit 6,7) - cut Jan-Feb, 2006. Trace amounts of basswood, yellow birch, red maple, and white pine.																											
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55	6120 - Lowland Cedar	Poletimber Well	96.2	119	Unspecified	N/A																												
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56	4110 - Sugar Maple Association	Sawtimber Well	12.0	95	51-80	N/A	"West Whitefish Hardwoods" #026-03 - cut July - August, 2005																											
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57	4112 - Maple, Beech, Cherry Association	Poletimber Well	14.2	95	111-140	N/A	Trace amount of ironwood noted.																											
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
58	4110 - Sugar Maple Association	Poletimber Well	6.6	95	51-80	N/A	"Ladoga Road Hardwoods" #025-03 (unit 2,3) - cut Feb-March, 2005.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Sugar Maple		90	Pole/Log	9	95	Quaking Aspen	
Balsam Fir		2	Pole/Sapling	6		Balsam Poplar	
Northern White Cedar		2	Pole	8		Balsam Fir	
Black Cherry		6	Pole	8		Black Cherry	
						Ironwood	
						Maple (spp.)	
59	6131 - Hemlock, White Pine, Maple, Birch	Sawtimber Well	22.8	97	111-140	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Maple		30	Log/Pole	12	97	Red Maple	
Yellow Birch		20	Log	12		Balsam Fir	
Quaking Aspen		3	Log	11		White Spruce	
Balsam Fir		10	Pole	6			
White Spruce		7	Log	14			
Northern White Cedar		10	Pole/Log	8			
White Pine		2	Log/XLog	18			
Hemlock		16	Log/XLog	14			
Black Ash		2	Pole	6			
60	4110 - Sugar Maple Association	Sawtimber Well	14.1	95	51-80	N/A	"West Whitefish Hardwoods" #026-03 - cut July - August, 2005
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Sugar Maple		86	Log/Pole	12	95	Balsam Fir	
Red Maple		5	Log/Pole	14		Ironwood	
Yellow Birch		2	Log	16		Maple (spp.)	
White Spruce		2	Log	14			
Black Cherry		5	Log	12			
61	4110 - Sugar Maple Association	Poletimber Well	13.7	95	51-80	N/A	"Ladoga Road Hardwoods" #025-03 (unit 1) - cut Feb - March, 2005
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Sugar Maple		90	Pole/Log	9	95	Balsam Fir	
Yellow Birch		2	Log/Pole	14		Ironwood	
White Spruce		2	Log	16		Maple (spp.)	
Northern White Cedar		2	Pole	8			
Black Cherry		4	Pole	9			



Stand **Level 4 Cover Type** **Size Density** **Acres** **Stand Age** **BA Range** **Managed Site** **General Comments**

62 4119 - Mixed Northern Hardwoods Poletimber Well 4.5 40 81-110 N/A Mixed stand along edge of lowland area.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	35	Pole/Sapling	6	40	Sugar Maple	Low	5 - 10 feet	Sapling
Black Cherry	10	Pole/Sapling	6		Balsam Fir	Medium	Variable	Sapling
Red Maple	15	Pole/Sapling	6		Serviceberry (Juneberry)	Low	5 - 10 feet	Sapling
Quaking Aspen	15	Pole/Sapling	6					
Balsam Fir	20	Pole/Sapling	6					
White Spruce	5	Pole/Sapling	6					

63 6120 - Lowland Cedar Sawtimber Well 6.9 124 141-170 N/A Denser cedar with some other lowland conifer and hardwoods mixed in patches. Very saturated ground with larger diameter cedar.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Yellow Birch	2	Pole/Sapling	6		Balsam Fir	Medium	Variable	Sapling
Balsam Fir	5	Pole	6		Alder	Low	5 - 10 feet	Tall Shrub
Black Spruce	8	Pole/Log	9					
Northern White Cedar	80	Log/Pole	12	124				
Tamarack	5	Log	10					