



Compartment Review Presentation

Gwinn Forest Management Unit

Compartment 32030

Entry Year 2023

Acreage: 1,896

County Marquette

Management Area: Palmer Moraine

Revision Date: 2021-08-03

Stand Examiner: Eric Brolin

Legal Description:

T45N R25W Sections 4,5,6,8,13,15,18

Identified Planning Goals:

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

Soil and topography:

Terrain is relatively level with a geology including a lake plain with excessively drained sands, and outwash plain containing moderately well drained loams. Soil associations include Grayling, Rubicon, Baraga, Champion, Michigamme and Munising.

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

The State ownership is fragmented in this compartment with Cleveland Cliffs, Inc. and Marquette County the major landowners surrounding State land. In addition, there are several private holdings abutting State land.

Unique Natural Features:

Potential for goshawk, osprey, eagle, and great blue heron rookery. Potential for Kirtland's warbler. Potential for wood turtle in East and Middle Branch Escanaba River. Potential for Loon in Swanzy Lake. Potential for frigga fritillary, freija fritillary, and red-disked alpine in bogs. Potential for moose and wolf. Potential for auricled tway-blade, western dock, veiny meadow-rue, and linear-leaved gentian along riparian areas. Potential for Farwell's water-milfoil and alternate-leaved water-milfoil in shallow lakes. Potential for purple clematis in dry-mesic pine stands. Potential for fir clubmoss in moist sandy depressions and shorelines.

Archeological, Historical, and Cultural Features:

N/A

Special Management Designations or Considerations:

N/A

Watershed and Fisheries Considerations:

This compartment is divided into seven sections that contain several waterbodies including the Middle Branch of the Escanaba River, East Branch of the Escanaba River (two sections), Halfway Creek, and three unnamed streams that serve as tributaries to the East Branch of the Escanaba River or the Middle Branch of the Escanaba River.

The Middle Branch of the Escanaba River is designated a Type 1 trout stream greater than 50' width and has a predicted mean July temperature of 67.1 °F (cool stream). 100' plus 5' per 1% increase in slope; buffers are recommended for the Middle Branch of the Escanaba River to protect riparian areas in accordance with Best Management Practices.

The East Branch of the Escanaba River is designated a Type 1 trout stream greater than 50' width and has predicted mean July temperatures that ranges from 59.9 to 66.7 °F (cold to cool stream). 100' plus 5' per 1% increase in slope; buffers are recommended for the East Branch of the Escanaba River to protect riparian areas in accordance with Best Management Practices.

Halfway Creek is designated a Type 1 trout stream less than 50' width and has a predicted mean July temperature of 60.6 °F (cold stream). A 300' buffer is recommended for Halfway Creek 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.

Unnamed streams that serve as tributary to either the Middle Branch or East Branch of the Escanaba River are all designated Type 1 trout streams less than 50' width and have predicted mean July temperatures that range from 57.6 to

59.9 °F (cold streams). 300' buffers are recommended for 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 030 is found within the Palmer Moraine Management Area; on a Bedrock-Controlled Ground Moraine in central Marquette County. The dominant Natural Communities is boreal forests, mesic northern forests, and dry mesic northern forests. Major forest cover types include Aspen, White Pine, and Jack Pine. Wildlife priorities in this management area include maintaining white pine, red pine, and oak especially on rocky outcrops and maintaining wildlife movement corridors along riparian areas. Some of the most significant wildlife management issues in the management area are: early successional forest conditions (associated with alder, riparian zones, or forested wetlands), mast (hard and soft); mature forest (coniferous and deciduous stands); retention or development of large living and dead standing trees (for cavities), and mesic conifer.

The following have been identified as features species for the Palmer Moraine Management Area: American woodcock, black bear, pileated woodpecker, and red crossbill.

Mineral Resource and Development Concerns and/or Restrictions

No known potential exists for commercial oil & gas production in this part of the state. An active sand/gravel pit is in Sec 18, just outside the compartment. There may be some potential for sand & gravel within the compartment sourced from thin glacial drift or from abandoned mine waste rock. The compartment lies within an area that was historically mined for iron ore. It is unlikely there are economic reserves of iron remaining on/beneath the compartment. There is no current mineral leasing activity in the area. 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:

Excellent from numerous roads and two-tracks, as well as M-35 and Co. Road 553.

Survey Needs:

Possible survey needs for timber management.

Recreational Facilities and Opportunities:

Good hunting for deer and grouse. Fair to good trout fishing in the Escanaba River.

Fire Protection:

This compartment is at a medium to high risk for wildfire due to the jack pine stands near the Escanaba River and Swanzy Lake area. Certain portions have difficult access across lowland areas and/or private land.

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**

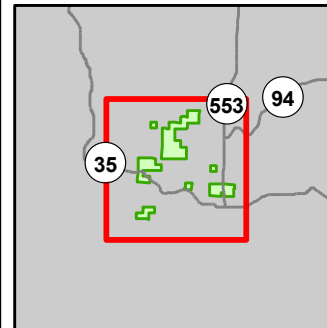
Report 1 – Total Acres by Cover Type and Age Class



Age Class

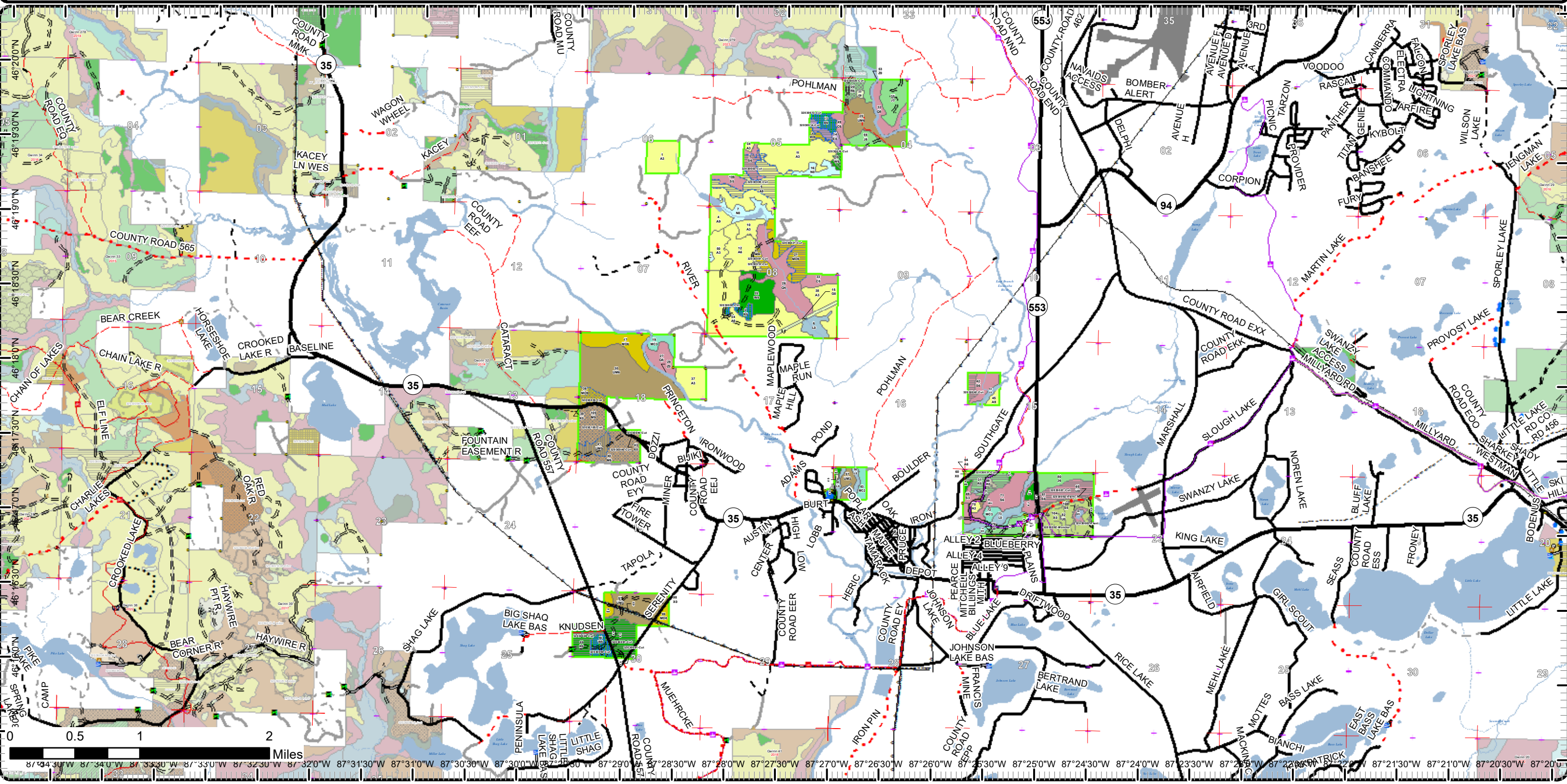
	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	117	73	172	0	44	0	6	92	0	0	0	0	0	0	0	0	0	504
Bog	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Cedar	0	0	0	0	0	0	0	0	0	10	0	0	0	15	0	0	0	0	25
Exposed Rock	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Herbaceous Openland	26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26
Jack Pine	0	0	0	40	54	0	1	0	0	0	0	0	0	0	0	0	0	0	95
Low-Density Trees	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Lowland Conifers	0	0	0	0	0	0	0	0	25	0	24	75	0	0	0	0	0	0	124
Lowland Deciduous	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	12
Lowland Shrub	56	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	56
Lowland Spruce/Fir	0	0	0	0	6	0	4	0	47	99	0	0	0	0	0	0	0	0	156
Marsh	45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	45
Mixed Upland Deciduous	0	0	0	0	0	0	0	10	44	44	22	9	0	0	0	0	0	0	128
Natural Mixed Pines	0	0	0	0	5	0	0	0	0	2	0	5	0	0	0	0	0	0	12
Northern Hardwood	0	0	0	0	0	0	0	0	0	0	0	83	0	0	0	0	0	0	83
Red Pine	0	0	0	0	21	26	0	0	26	0	50	0	0	13	0	0	0	0	136
Sand, Soil	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Upland Conifers	0	0	18	14	0	0	0	0	0	7	0	0	0	0	0	0	0	0	39
Upland Mixed Forest	0	0	0	193	67	2	0	0	0	0	0	0	0	19	0	0	0	0	279
Upland Shrub	61	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	61
Urban	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23
Water	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14
White Pine	0	0	0	0	0	0	0	0	0	2	64	0	0	6	0	0	0	0	71
Total	231	117	91	419	153	72	5	16	234	176	160	172	0	53	0	0	0	0	1895

Overview Map



Compartment: 30
 T45N,R25W, Sec. 4-6, 08, 15, 18,
 20-22, 30
 County: Marquette
 Unit: Gwinn
 Mgmt Area: Palmer Moraine
 YOE: 2023
 Acres: 1895.8 GIS Calculated
 Examiner: Eric Brolin
 Map Revised: 8/20/2021
 Map Phase: Review

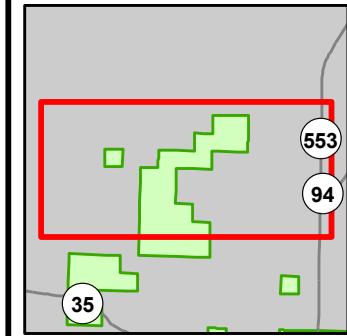
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|---|---|--|---|
| <ul style="list-style-type: none"> — Miris Corners — Remonumented Section Corners ● Survey Grade Corners --- Counties — DNR - Primary Forest Road — DNR - Secondary Forest Road — DNR - Forest Access Route — Federal / State Highway — Federal / State / County - Paved Road — Federal / State - Dirt / Gravel Road — County - Gravel Road — County - Dirt Road (Seasonal) — Private - Paved Road — Private - Dirt / Gravel Road | <ul style="list-style-type: none"> — Active Railroads — ORV Routes — Snowmobile Trails — Designated ORV Route — Designated Snowmobile Trails — House — Berms — Gate — Boating Access Site — Bridges — City — Parking Lot — Intermittent Stream | <ul style="list-style-type: none"> — Island in Lake or River — Lake/Pond — Perennial River — Lakes and Rivers — Pipeline — Powerline — Airports — Compartment Boundary — Treatments with Site Conditions — Selection (Group, Single Tree) — Planting (tree species) — Clearcut (w/Reserves) — Seed Tree (w/Reserves) — Shelter Wood (w/Reserves) — Monitoring | <ul style="list-style-type: none"> 411 - Northern Hardwood 413 - Aspen 419 - Mixed Upland Deciduous 421 - Planted Pines 422 - Natural Pines 429 - Mixed Upland Conifers 430 - Upland Mixed Forest 611 - Lowland Deciduous Forest 612 - Lowland Coniferous Forest 122 - Roads/Parking Lot 310 - Herbaceous Openland 320 - Upland Shrub 330 - Low Density Trees 500 - Water 622 - Lowland Shrub 623 - Emergent Wetland 710 - Sand/Soil 720 - Exposed Rock |
|---|---|--|---|



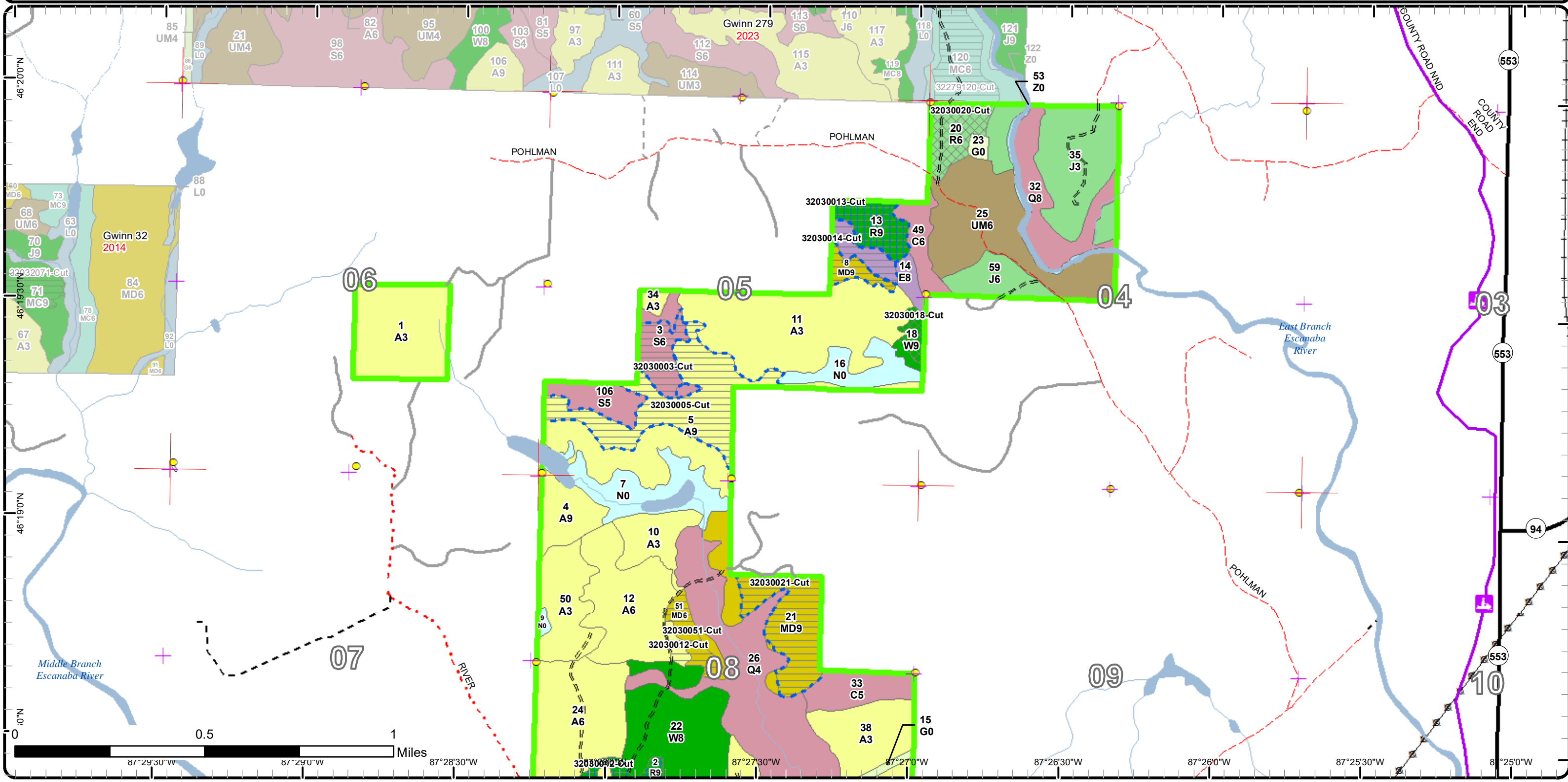
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Cover Type & Treatments Map

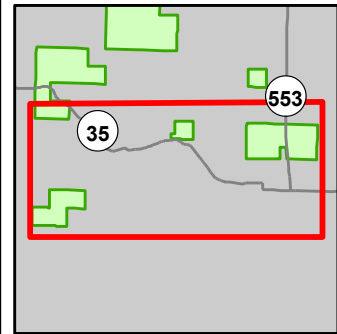
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 Map Revised: 8/20/2021
 Map Phase: Review



- Miris Corners
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- Survey Grade Corners
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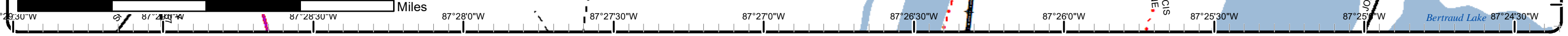
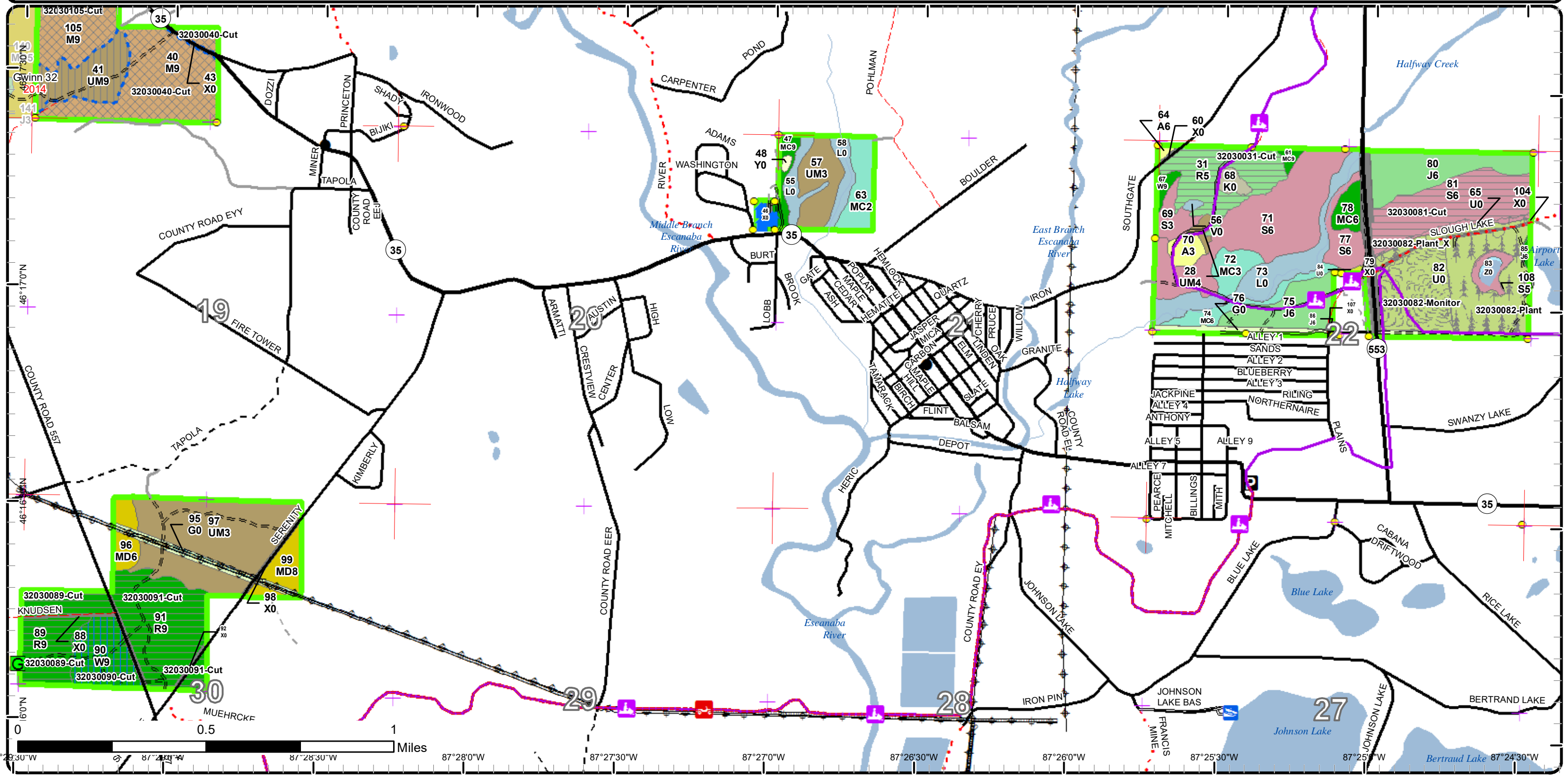


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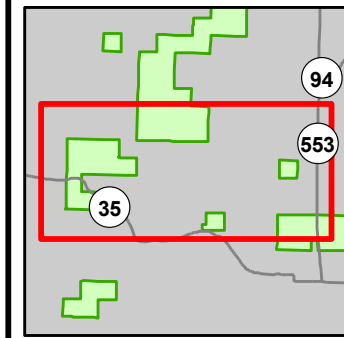
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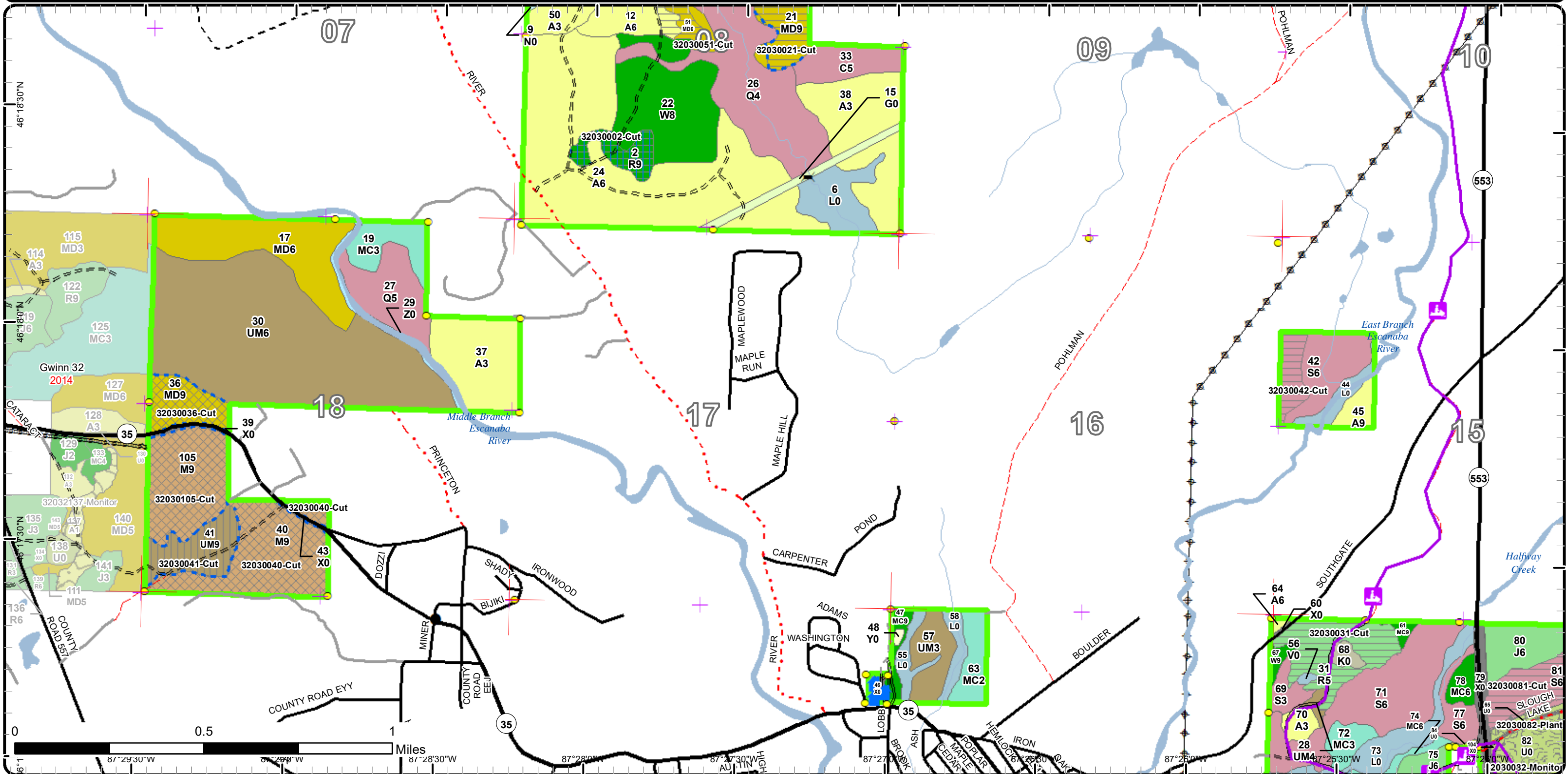


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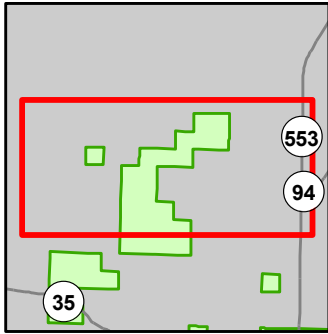


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|--|-----------------------------------|-----------------------------------|-----------------------|
| — Miris Corners | — Designated Snowmobile Trails | ▨ Seed Tree (w/Reserves) | ■ 500 - Water |
| ⊕ Remonumented Section Corners | 🏠 House | ▨ Shelter Wood (w/Reserves) | ■ 622 - Lowland Shrub |
| ● Survey Grade Corners | ⚡ Bridges | 📍 Monitoring | ■ 710 - Sand/Soil |
| --- Counties | ● City | ■ 411 - Northern Hardwood | ■ 720 - Exposed Rock |
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| == DNR - Forest Access Route | — Perennial River | ■ 419 - Mixed Upland Deciduous | |
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| - - - County - Dirt Road (Seasonal) | 🟩 Treatments with Site Conditions | ■ 612 - Lowland Coniferous Forest | |
| — Private - Paved Road | 🟩 Selection (Group, Single Tree) | ■ 122 - Roads/Parking Lot | |
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| | | ■ 330 - Low Density Trees | |

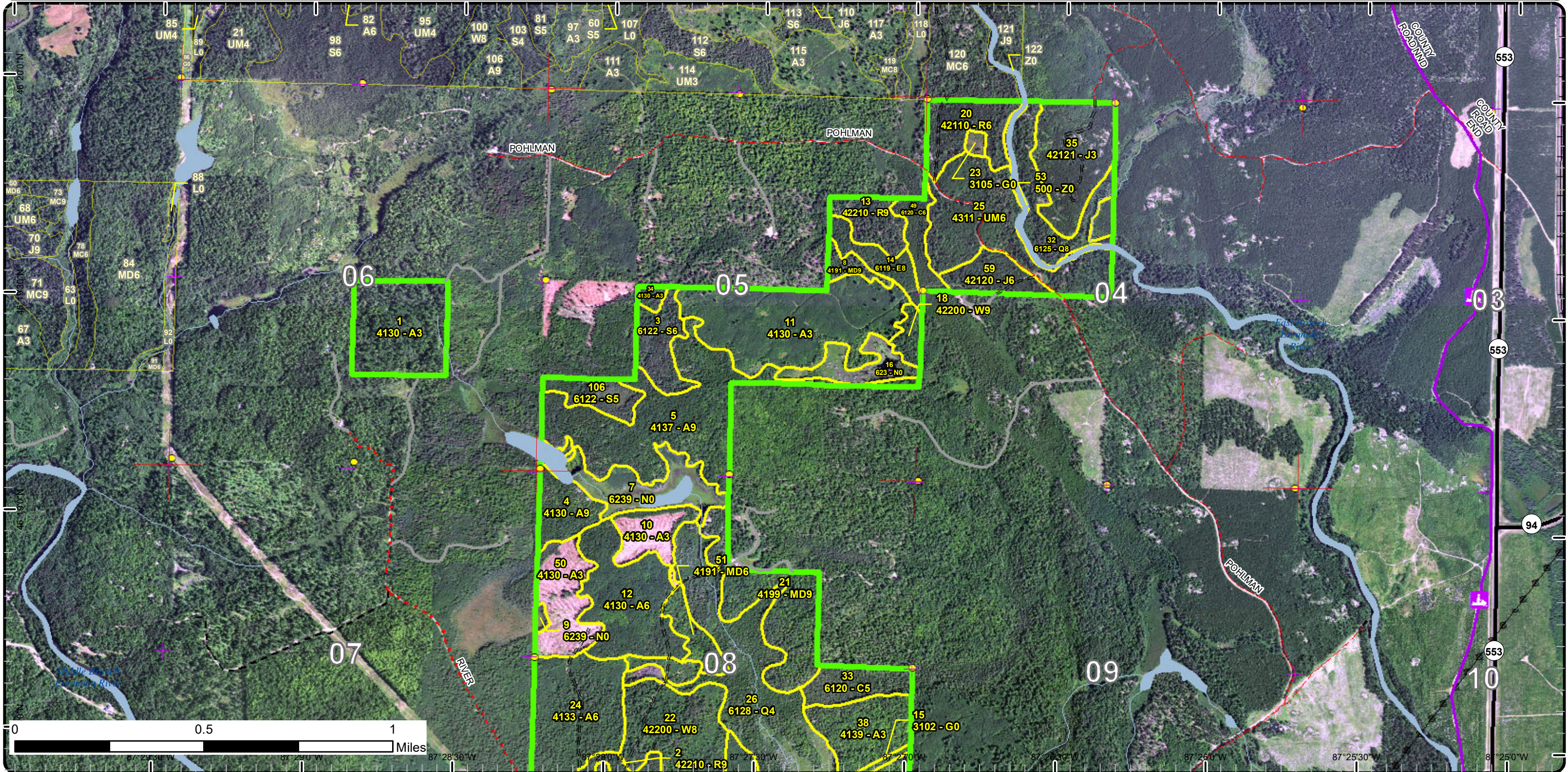


Stand Boundary Map

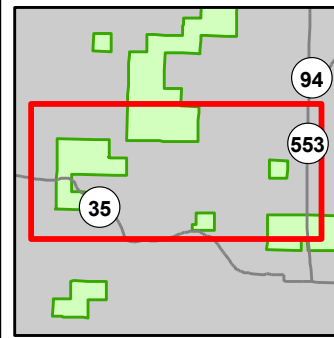
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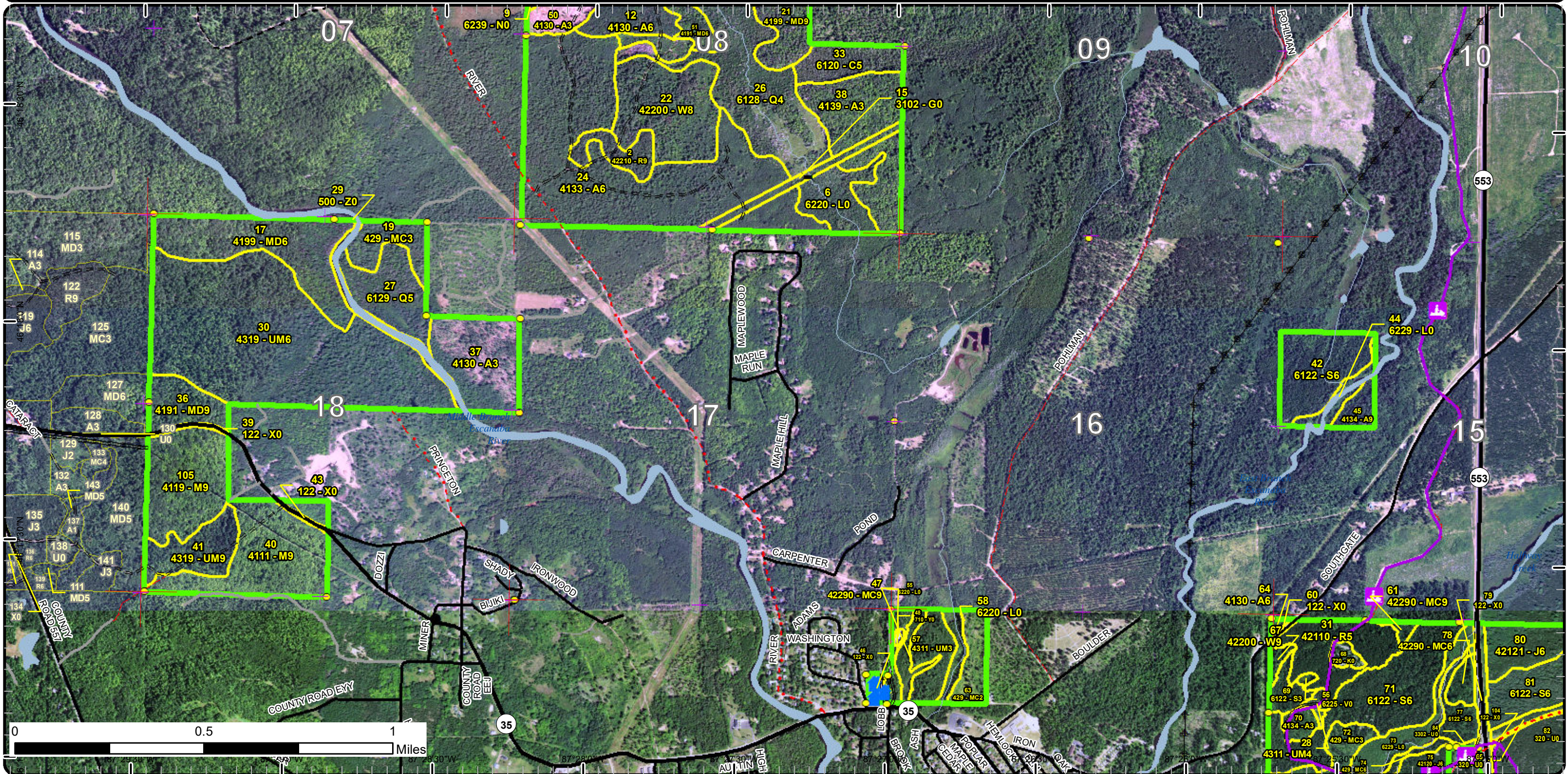


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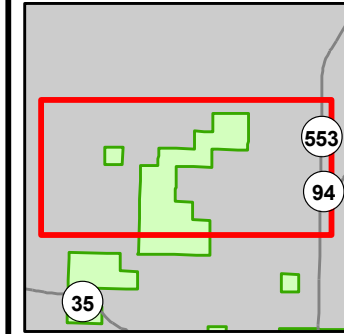
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Special Conservation Areas

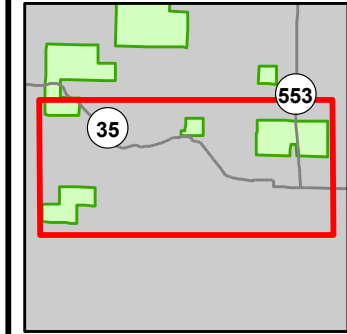
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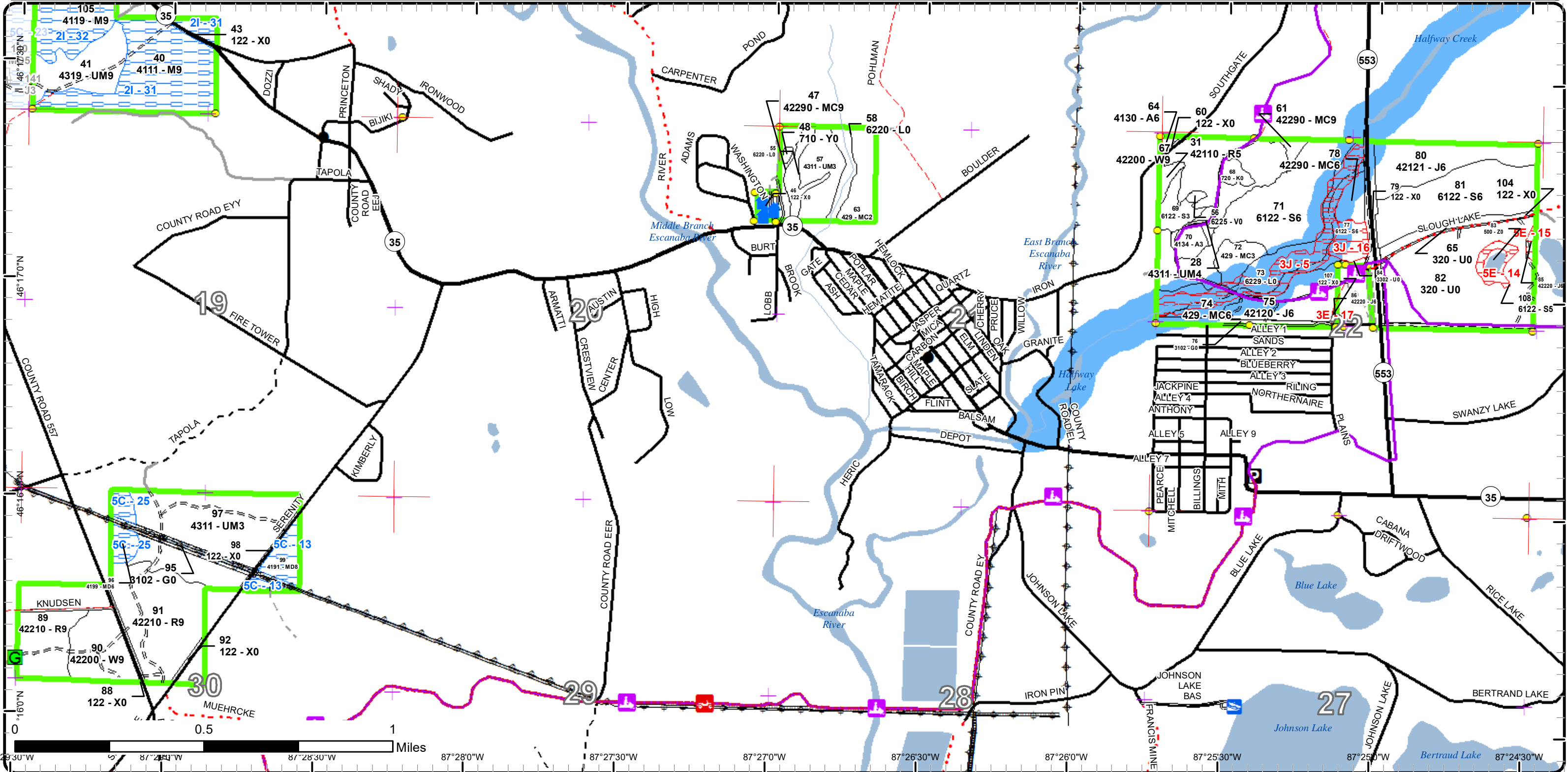
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- Snowmobile Trails
- Designated Snowmobile Trails
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Pipeline
- Powerline
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 2I: Survey needed
- 2J: Survey needed
- 2K: Survey needed
- 2L: Survey needed
- 2M: Survey needed
- 2N: Survey needed
- 2O: Survey needed
- 2P: Survey needed
- 2Q: Survey needed
- 2R: Survey needed
- 2S: Survey needed
- 2T: Survey needed
- 2U: Survey needed
- 2V: Survey needed
- 2W: Survey needed
- 2X: Survey needed
- 2Y: Survey needed
- 2Z: Survey needed
- 3A: Survey needed
- 3B: Survey needed
- 3C: Survey needed
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- 4G: Survey needed
- 4H: Survey needed
- 4I: Survey needed
- 4J: Survey needed
- 4K: Survey needed
- 4L: Survey needed
- 4M: Survey needed
- 4N: Survey needed
- 4O: Survey needed
- 4P: Survey needed
- 4Q: Survey needed
- 4R: Survey needed
- 4S: Survey needed
- 4T: Survey needed
- 4U: Survey needed
- 4V: Survey needed
- 4W: Survey needed
- 4X: Survey needed
- 4Y: Survey needed
- 4Z: Survey needed
- 5A: Survey needed
- 5B: Survey needed
- 5C: Survey needed
- 5D: Survey needed
- 5E: Survey needed
- 5F: Survey needed
- 5G: Survey needed
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Special Conservation Areas

Compartment: 30
 T45N,R25W, Sec. 4-6, 08, 15, 18,
 20-22, 30
 County: Marquette
 Unit: Gwinn
 Mgmt Area: Palmer Moraine
 YOE: 2023
 Acres: 1895.8 GIS Calculated
 Examiner: Eric Brolin
 Map Revised: 8/20/2021
 Map Phase: Review



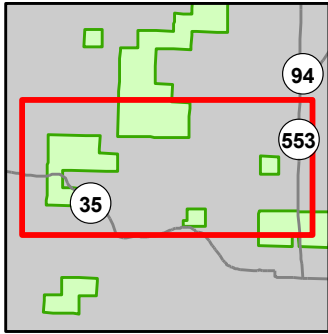
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- Survey Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State Highway
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Paved Road
- Private - Dirt / Gravel Road
- ORV ORV Routes
- S Snowmobile Trails
- Designated ORV Route
- Designated Snowmobile Trails
- House
- G Gate
- B Boating Access Site
- X Bridges
- P City
- P Parking Lot
- L Lake/Pond
- R Perennial River
- L Lakes and Rivers
- Pipeline
- Powerline
- Compartment Boundary
- Available w/ Constraints
- 2I Survey needed
- 5C Delay treatment for age/size class diversity or exceptional site quality
- Unavailable
- 3E Easement / lease, non-military (e.g.- Consumers Power red pine, etc)
- 3J Water quality / BMPs (stream, river, or lake)
- 5E Long-Term Retention
- Stand Boundaries
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer



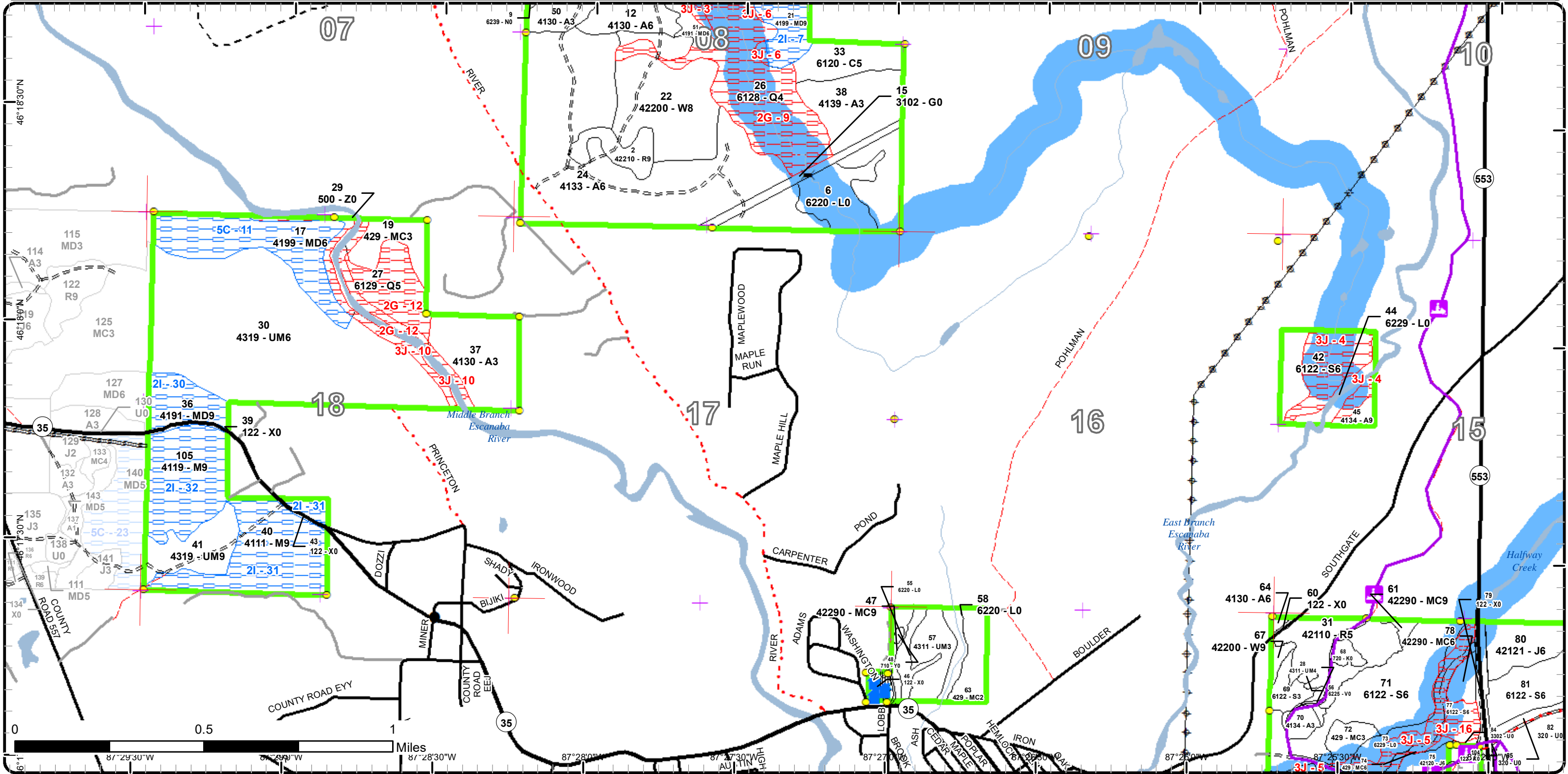
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Special Conservation Areas

Compartment: 30
 T45N,R25W, Sec. 4-6, 08, 15, 18,
 20-22, 30
 County: Marquette
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 YOE: 2023
 Acres: 1895.8 GIS Calculated
 Examiner: Eric Brolin
 Map Revised: 8/20/2021
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- Miris Corners
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- DNR - Forest Access Route
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- County - Dirt Road (Seasonal)
- Private - Paved Road
- Private - Dirt / Gravel Road
- Snowmobile Trails
- Designated Snowmobile Trails
- House
- Bridges
- City
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Pipeline
- Powerline
- Compartment Boundary
- Available w/ Constraints
- 2I: Survey needed
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Unavailable
- 2G: Too wet (sensitive soils, does not include access issues)
- 3J: Water quality / BMPs (stream, river, or lake)
- Stand Boundaries
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer





Report 2 – Treatment Summary

Gwinn Mgt. Unit

Year of Entry: 2023

Acres of Harvest

Compartment 30
Total Compartment Acres: 1,896

Commercial Harvest - 209
Harvests with Site Condition - 208
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	47	0	0	0	0	0	0	0	0	47
Lowland Deciduous	7	0	0	0	0	0	0	0	0	7
Lowland Spruce/Fir	53	0	0	0	0	0	0	0	0	53
Mixed Upland Deciduous	42	15	0	0	0	0	0	0	0	57
Northern Hardwood	0	83	0	0	0	0	0	0	0	83
Red Pine	91	14	0	24	0	0	0	0	0	129
Upland Mixed Forest	0	0	0	0	19	0	0	0	0	19
White Pine	0	4	0	17	0	0	0	0	0	22
Total	240	117	0	41	19	0	0	0	0	416

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	416	0	37	0	0	24	0	0	0	477
Next Step	0	183	91	21	66	183	606	0	0	1149
Total	416	183	129	21	66	183	630	0	0	1627



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

Proposed Treatments:

2	32030002-Cut	10.3	42210 - Natural Red Pine	Sawtimber Well	96	171- 200	Harvest	Seed Tree	429 - Mixed Upland Conifers	Even-Aged	No
<p><u>Prescription</u> Harvest to a 2" spec to promote pine / mixed conifer and hardwood regeneration. Green mark healthy mixed pine species to maintain a residual cover of 10-20 BA across the stand. No retention due to small size and surrounding similar stands.</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> mixed conifer and hardwood</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>											
3	32030003-Cut	12.1	6122 - Black Spruce	Poletimber Well	86	111- 140	Harvest	Clearcut with Retention	6122 - Black Spruce	Even-Aged	No
<p><u>Prescription</u> Harvest to a 2" spec to promote black spruce regeneration. Retention will be met by excluding the far NE and/or SE areas that are sparser and less productive but contain mature black spruce. Leave cedar and white pine.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory); Seeding, Machine Seed</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> lowland conifer</p> <p><u>Regen:</u></p> <p><u>Other</u> Access will be determined by which landowner the contractor wants to go through. There are a few different access routes. A decent road goes right up to the property corner from the east, recommend this route through private. Treatment line updated for approximate exclusions.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u> Survey Needed</p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											
5	32030005-Cut	43.8	4137 - Aspen, Birch	Sawtimber Well	70	111- 140	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	No
<p><u>Prescription</u> Harvest to a 2" spec to promote regeneration. Large stand retention area will be met within the no-cut 300' trout stream buffer along the south edge. Leave cedar, hemlock, white pine, and yellow birch.</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, hardwood, conifer</p> <p><u>Regen:</u></p> <p><u>Other</u> Access will be determined by which landowner the contractor wants to go through. There are a few different access routes. A decent road goes right up to the property corner from the east, recommend this route through private.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u> Survey Needed</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
8	32030008-Cut	5.2	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	70	111-140	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	No
<p><u>Prescription</u> Harvest to a 2" spec to promote aspen, hardwood, and conifer regeneration. Retention should include large diameter, forked crown aspen.</p> <p><u>Specs:</u> Leave cedar and hemlock. Also green tree to leave approximately one larger white pine per acre for seed.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> aspen, hardwood, mixed conifer</p> <p><u>Regen:</u></p> <p><u>Other</u> Access from north with a new trail through private, from NE with new road across lowland conifer, or from south through private access and</p> <p><u>Comment:</u> frozen road conditions.</p> <p><u>Site Condition</u> Survey Needed</p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											
12	32030012-Cut	2.8	4130 - Aspen	Poletimber Well	47	81-110	Harvest	Clearcut	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Harvest to a 2" spec to promote regeneration. Leave cedar, red pine, and white pine. No retention due to small size and being part of a larger stand.</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, conifer</p> <p><u>Regen:</u></p> <p><u>Other</u> Harvest this with adjacent stand to allow operations up/down slope along the east edge.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											
13	32030013-Cut	13.3	42210 - Natural Red Pine	Sawtimber Well	126	111-140	Harvest	Seed Tree with Retention	42260 - Natural Pine, Mixed Deciduous	Even-Aged	No
<p><u>Prescription</u> Harvest to a 2" spec to promote pine / mixed conifer and hardwood regeneration. Green mark healthy mixed pine species to maintain a residual cover of 10-20 BA across the stand. Leave 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> mixed conifer and hardwood</p> <p><u>Regen:</u></p> <p><u>Other</u> Access from north with a new trail through private, from NE with new road across lowland conifer, or from south through private access and</p> <p><u>Comment:</u> frozen road conditions.</p> <p><u>Site Condition</u> Survey Needed</p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											
14	32030014-Cut	7.3	6119 - Mixed Lowland Deciduous Forest	Sawtimber Medium	87	51-80	Harvest	Clearcut with Retention	611 - Lowland Deciduous Forest	Even-Aged	No
<p><u>Prescription</u> Harvest to a 2" spec to promote lowland hardwood regeneration. Retention will be in the SE/E area of the stand where ground becomes less productive and contains larger diameter, scattered black ash. Leave cedar, hemlock, and white pine.</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> lowland hardwood, conifer</p> <p><u>Regen:</u></p> <p><u>Other</u> Access from north with a new trail through private, from NE with new road across lowland conifer, or from south through private access and</p> <p><u>Comment:</u> frozen road conditions. Treatment line was updated where the approximate line should be transitioning to unproductive ground.</p> <p><u>Site Condition</u> Survey Needed</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
18 32030018-Cut	4.3	42200 - Natural White Pine	Sawtimber Well	126	141- 170	Harvest	Single Tree Selection	42260 - Natural Pine, Mixed Deciduous	Two-Aged	No
<p><u>Prescription</u> Remove all merchantable aspen, birch, maple, and spruce/fir. Leave hemlock and red pine. Thin white pine to create an evenly distributed canopy of hemlock, red pine, and white pine. Residual canopy should average between 70-90 BA. Favor leaving larger diameter pine during marking.</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, hardwoods, pine, mixed conifer</p> <p><u>Regen:</u></p> <p><u>Other</u> Buffer lowland water area 100', steeper ledge may push that line further into the stand.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										
20 32030020-Cut	14.4	42110 - Planted Red Pine	Poetimber Well	31	111- 140	Harvest	Group Selection	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Harvest all merchantable spruce/fir and jack pine to remove competition and help release planted pine. Thin dense planted rows down to desired pine stocking where needed. Favor white pine while marking.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Other - Specify</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> red pine</p> <p><u>Regen:</u></p> <p><u>Other</u> There should be no operability issues if red pine is not marked. No rows observed were too narrow to operate through. May need to mark in rows where trees were planted very close together to help release. Overall, very little orange will be needed and a lot of area will be walk-through while marking. Buffer river 300' for trout stream.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										
21 32030021-Cut	28.1	4199 - Other Mixed Upland Deciduous	Sawtimber Well	70	81-110	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	No
<p><u>Prescription</u> Harvest to a 2" spec to promote regeneration. Retention will be included in the 300' trout stream buffer along the southeast edge. Leave cedar, hemlock, red pine, and white pine.</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, hardwood, mixed conifer, spruce/fir</p> <p><u>Regen:</u></p> <p><u>Other</u> Only include what can be accessed from north edge along road. No new roads across private, roads into the south from the east could require significant work through private land. May have to exclude area in the south if it can not be accessed across stand from the north. Determine during sale prep. Will require private access. Private access was granted in the past through landowner to the north. Include 300' buffer for trout stream to the west.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u> Survey Needed</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
31	32030031-Cut	25.5	42110 - Planted Red Pine	Poletimber Medium	44	51-80	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Cut all trees. Patch retention should be near edge so as not to impact regeneration.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Pesticide, Skidder - Site Prep; SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Pesticide, Skidder - <u>Treatments:</u> Release; Monitoring, Artificial Regen(3yr); SitePrep, Roller Chopping</p> <p><u>Acceptable</u> red pine <u>Regen:</u></p> <p><u>Other</u> <u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											
36	32030036-Cut	15.1	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	90	81-110	Harvest	Single Tree Selection	4199 - Other Mixed Upland Deciduous	Two-Aged	No
<p><u>Prescription</u> Mark stand to 60-80 BA. Focus on improving quality. Remove all merchantable spruce/fir and aspen. Leave some large future snag trees for <u>Specs:</u> wildlife. Leave cedar and hemlock. Favor white pine while marking.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u></p> <p><u>Acceptable</u> oak, hardwoods, conifer <u>Regen:</u></p> <p><u>Other</u> <u>Comment:</u></p> <p><u>Site Condition</u> Survey Needed <u>Proposed Start Date:</u> 10/1 /2022</p>											
40	32030040-Cut	46.2	4111 - S.Maple, Hard Mast Association	Sawtimber Well	105	141-170	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Mark stand to 70 – 90 BA. Focus on improving quality. Remove all merchantable spruce/fir and aspen. Leave some large future snag trees <u>Specs:</u> for wildlife. Leave cedar, hemlock, and white pine. Favor species diversity, especially basswood, oak, and yellow birch, while marking. If oak is marked, do not mark multiple stems within clumps, limit to single tree marking across stand.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u></p> <p><u>Acceptable</u> northern hardwood <u>Regen:</u></p> <p><u>Other</u> <u>Comment:</u></p> <p><u>Site Condition</u> Survey Needed <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
41 32030041-Cut	18.6	4319 - Mixed Upland Forest	Sawtimber Well	126	111-140	Harvest	Shelterwood with Retention	4192 - Mixed Southern Upland Deciduous	Two-Aged	No
<p><u>Prescription</u> Harvest to a 2" spec to promote oak, hardwood, and conifer regeneration. Leave cedar, hemlock, and oak. In combination with leave species, green mark to leave white pine FIRST if present or other longer lived species to maintain a residual cover of 30-40 BA across the stand.</p> <p><u>Specs:</u> 2" spec shelterwood, leave hemlock, oak, cedar and green wp or other longer lived species to make up 40-50 BA to CREATE uniform canopy of pine/ oak mix</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> oak, pine, spruce/fir, hardwoods, aspen</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>										
42 32030042-Cut	8.8	6122 - Black Spruce Poletimber	Well	88	111-140	Harvest	Clearcut with Retention	6122 - Black Spruce	Even-Aged	No
<p><u>Prescription</u> Harvest to a 2" spec to promote black spruce regeneration. Buffer trout streams 300' to the east which includes denser cedar and tamarack.</p> <p><u>Specs:</u> Leave cedar, white pine, and black cherry.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory); Seeding, Machine Seed</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> black spruce, lowland conifer</p> <p><u>Regen:</u></p> <p><u>Other</u> Trout stream "Y's" into two streams near the center of the stand. Access from NW corner. No corner evidence found.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										
51 32030051-Cut	8.4	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	65	111-140	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	No
<p><u>Prescription</u> Harvest to a 2" spec to promote regeneration. Retention will be included in the 300' trout stream buffer along the southeast edge. Make sure some large, healthy paper birch are included in retention. Leave cedar, red pine, and white pine.</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, maple, mixed conifer, spruce/fir</p> <p><u>Regen:</u></p> <p><u>Other</u> Include a 300' buffer for the trout stream to the east.</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
81 32030081-Cut	32.5	6122 - Black Spruce	Poletimber Well	84	81-110	Harvest	Clearcut with Retention	6122 - Black Spruce	Even-Aged	No
<p><u>Prescription</u> Clearcut leaving retention in patches. Retention should include some lesser occurring species such as WP and paper birch, along with some mature black spruce and tamarack.</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> spruce with a mix of other species</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>										
82 32030082-Monitor	23.5	320 - Upland Shrub	Nonstocked	0	Unspecified	Monitoring	Direct Seeding	4212 - Planted Jack Pine	Even-Aged	No
<p><u>Prescription</u> Jack pine was trenched and seeded in April of 2021.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Artificial Regen(3yr)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Jack pine, red pine, and white pine.</p> <p><u>Regen:</u></p> <p><u>Other</u> C32-942</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>										
65 32030082-Plant_X	7.1	320 - Upland Shrub	Nonstocked	0		Planting	Initial Plant	4212 - Planted Jack Pine	Even-Aged	No
<p><u>Prescription</u> Jack pine - Stand was trenched in April 2021</p> <p><u>Specs:</u></p> <p><u>Next Step</u> ; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Jack pine, red pine, and white pine.</p> <p><u>Regen:</u></p> <p><u>Other</u> C32-942</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										
89 32030089-Cut	26.4	42210 - Natural Red Pine	Sawtimber Well	78	111-140	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Harvest to a 2" spec to prepare site for planting red pine. Leave edge long-term retention for stand. Leave all oak within stand.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Pesticide, Aerial - Release; Burn, Slash; Monitoring,</p> <p><u>Treatments:</u> Artificial Regen(3yr); SitePrep, Roller Chopping; Pesticide, Aerial - Site Prep</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
90 32030090-Cut	17.4	42200 - Natural White Pine	Sawtimber Well	98	81-110	Harvest	Seed Tree with Retention	42290 - Natural Mixed Pine	Two-Aged	No
<p><u>Prescription</u> Harvest to a 2" spec to promote mixed pine regeneration. Leave cedar and hemlock. In combination with leave species, green mark the largest diameter red and white pine to maintain a residual cover of 20 - 40 BA across the stand.</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> red pine, white 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>										
91 32030091-Cut	39.4	42210 - Natural Red Pine	Sawtimber Well	98	111-140	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Harvest to a 2" spec to prepare site for planting red pine. Leave edge long-term retention for stand.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Pesticide, Aerial - Site Prep; SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); SitePrep, Roller Chopping;</p> <p><u>Treatments:</u> Burn, Slash; Pesticide, Aerial - Release; Monitoring, Artificial Regen(3yr)</p> <p><u>Acceptable</u> red pine</p> <p><u>Regen:</u></p> <p><u>Other</u> Roller chop or prescribed fire is highly recommended. Stand has dense understory of dead/declining fir saplings.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										
105 32030105-Cut	36.5	4119 - Mixed Northern Hardwoods	Sawtimber Well	105	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Mark stand to 70 – 90 BA. Focus on improving quality. Remove all merchantable spruce/fir and aspen. Leave some large future snag trees for wildlife. Leave cedar, hemlock, and white pine. Favor species diversity, especially basswood, oak, and yellow birch, while marking.</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> northern hardwood</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u> Survey Needed</p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										

Approved Treatments:

82 32030082-Plant	30.3	320 - Upland Shrub	Nonstocked	0	Unspecified	Planting	Initial Plant	4212 - Planted Jack Pine	Even-Aged	No
<p><u>Prescription</u> Jack pine - Plant @ 7-7' spacing. Trenched during April 2021 with average of about 7' apart.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Jack pine, red pine, and white pine.</p> <p><u>Regen:</u></p> <p><u>Other</u> C32-942</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</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
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Total Treatment Acreage Proposed: 477.3

Report 4 – Site Conditions

Gwinn Mgt. Unit
Eric Brolin : Examiner

Compartment: 30
Year of Entry: 2023

Availability for Management

Total Acres Acres Available Acres Available Acres Not Available

Dominant Site Conditions

2B 2I 5C 2G 3E 3J 5D 5E ed

Total Acres	Acres Available	Acres Available With Condition	Acres Not Available		2B	2I	5C	2G	3E	3J	5D	5E	ed
505	407	51	47	Aspen	7	44				47			
1	1	0	0	Bog									
26	26	0	0	Cedar									
3	3	0	0	Exposed Rock									
26	25	0	0	Herbaceous Openland						0			
96	83	0	12	Jack Pine					0	11		1	
1	1	0	0	Low-Density Trees									
124	1	0	123	Lowland Conifers				94		28			
12	0	7	4	Lowland Deciduous		7					4		
56	41	0	15	Lowland Shrub						15			
156	96	12	47	Lowland Spruce/Fir		12		4		27	12	4	
45	45	0	0	Marsh									
129	8	103	18	Mixed Upland Deciduous		48	54			18			
12	11	0	0	Natural Mixed Pines						0			
83	0	83	0	Northern Hardwood		83							
136	116	13	7	Red Pine		13				7			0
1	1	0	0	Sand, Soil									
39	33	0	6	Upland Conifers						6			
279	256	0	23	Upland Mixed Forest						23			
61	61	0	0	Upland Shrub								0	
23	23	0	0	Urban									
14	14	0	0	Water									
72	70	0	2	White Pine						2			
1,896	1,322	269	304	Total Forested Acres	7	208	54	99	0	184	16	5	0
	70%	14%	16%	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)	60	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Trout stream buffer 300' for average <50' wide.							

Report 4 – Site Conditions

Gwinn Mgt. Unit
Eric Brolin : Examiner

Compartment: 30
Year of Entry: 2023

2	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	30	Unspecified	Unspecified	Unspecified	Unspecified
Comments: 300' trout stream buffer.							
3	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	2	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
Comments: 300' trout stream buffer and long term retention for stand 51.							
4	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	22	Unspecified	Unspecified	Unspecified	Unspecified
Comments: 300' trout stream buffer. Stand 42 stream Y's into two different streams.							
5	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	23	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	11	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
Comments: 300' trout stream buffer and long term retention for stand 21.							
7	Available	2I: Survey needed	28	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Could not find corner by private gate. Possible trespass gate needs to get resolved during prep. Need surveyed corners.							
8	Unspecified	Unspecified	0				
Comments:							

Report 4 – Site Conditions

Gwinn Mgt. Unit
Eric Brolin : Examiner

Compartment: 30
Year of Entry: 2023

9	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	75	5D: Unproductive Forest Land	Unspecified	Unspecified	Unspecified
Comments: Flooded area of dense alder with some mixed lowland conifer areas.							
10	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	19	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Trout stream > 50', 100' buffer.							
11	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	39	Unspecified	Unspecified	Unspecified	Unspecified
Comments: East half should be available but will require over 1/2 mile of new road across state to access. Will be better to manage in the future with adjacent stand. West half has terrain and may not be available.							
12	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	19	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Flooded, soft flat along rivers edge.							
13	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Lighter BA, allow sapling/pole sized trees to fill in.							
14	Unavailable	5E: Long-Term Retention	4	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Gwinn Mgt. Unit
Eric Brolin : Examiner

Compartment: 30
Year of Entry: 2023

15	Unavailable	5E: Long-Term Retention	1	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments:							
16	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
17	Unavailable	3E: Easement / lease, non- military (e.g.- Consumers Power red pine, etc)	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Land pending disposal to Forsyth Township. Technicality with deed. Is at Real estate level.							
18	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: 100' buffer along water.							
19	Available	2B: Unknown if access through adjacent landowner(s) is possible	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments: To avoid new road through private, this portion of the stand will be attempted to access from the south across a low swale when stand 12 is harvested next YOE.							
20	Unavailable	5D: Unproductive Forest Land	4	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments: Lower end of drainage area from stand 14 that become unproductive ground.							

Report 4 – Site Conditions

Gwinn Mgt. Unit
Eric Brolin : Examiner

Compartment: 30
Year of Entry: 2023

21	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Buffer water with slope along edge.							
22	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	4	5D: Unproductive Forest Land	Unspecified	Unspecified	Unspecified
Comments: Sparser, wetter areas of stand 3 that are not productive.							
23	Unavailable	5D: Unproductive Forest Land	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Stand has an alder drainage and open bog center. May be able to manage some edges during future adjacent harvest.							
24	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments: 300' trout stream buffer.							
25	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Light BA. Not ready to manage at this time.							
26	Available	2I: Survey needed	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Survey corners needed.							
27	Available	2I: Survey needed	44	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Survey corners needed.							

Report 4 – Site Conditions

Gwinn Mgt. Unit
Eric Brolin : Examiner

Compartment: 30
Year of Entry: 2023

28	Available	2I: Survey needed	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Survey corners needed.							
29	Available	2I: Survey needed	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Survey corners needed.							
30	Available	2I: Survey needed	15	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Survey corners needed.							
31	Available	2I: Survey needed	46	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Survey corners needed.							
32	Available	2I: Survey needed	37	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Survey corners needed.							
33	Available	2I: Survey needed	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Survey corners needed.							

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.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																										
1	4130 - Aspen	Sapling Well	40.0	22	1-50	N/A	Could not access through private this YOE. Imagery and previous inventory seems accurate.																																																										
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Red Maple</td> <td>2</td> <td>Sapling</td> <td>1</td> <td></td> </tr> <tr> <td>Quaking Aspen</td> <td>80</td> <td>Sapling</td> <td>3</td> <td>22</td> </tr> <tr> <td>White Pine</td> <td>18</td> <td>XLog/Log</td> <td>18</td> <td>96</td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Red Maple	2	Sapling	1		Quaking Aspen	80	Sapling	3	22	White Pine	18	XLog/Log	18	96	<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Balsam Fir</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Hazelnut (Beaked)</td> <td>Low</td> <td>< 5 feet</td> <td>Tall Shrub</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Balsam Fir	Low	Variable	Sapling	Hazelnut (Beaked)	Low	< 5 feet	Tall Shrub	20-30 ba of 12-28" white pine over 1-2" aspen saplings and red maple stump sprouts. Very rocky and rolling with swales between the rock ridges.																													
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2	42210 - Natural Red Pine	Sawtimber Well	10.3	96	171-200	N/A	Small stand broken out form large pine / aspen sapling stands. This stand has a very dense pine canopy heavy to red pine. It can be accessed along the roads to avoid any damage to well established saplings from surrounding stands. Dense pine mix with much lower sapling density than surrounding stands due to dense pine BA.																																																										
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Red Maple	Low	>20 feet	Sapling																																																														
3	6122 - Black Spruce	Poletimber Well	16.4	86	111-140	N/A	Good quality black spruce with some jack pine mixed around the edges. Tamarack patch in the north. Kind of a drier, transitional ground with no standing water or spongy ground during early spring across most of the stand. The far north tip becomes somewhat sparsely stocked with alder and cattail ground, should be excluded from future management. Can access from state in the far NE, private west edge, or south edge. The east edge has a steeper rock ledge bordering the adjacent stand.																																																										
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4	4130 - Aspen	Sawtimber Well	15.4	75		N/A	Stand was not entered this YOE. Previous inventory data was used. After 300' trout stream buffer there is only about 6 manageable acres that could be harvested. New road would be needed for access through private. A lowland swale separates it from the south adjacent stands. Possible access across swale from the south next YOE when stand 12 is harvested.																																																										
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5	4137 - Aspen, Birch	Sawtimber Well	76.9	70	111-140	N/A	Predominantly paper birch in a lot of areas with a diverse mix of very large diameter aspen and other hardwood species. Gentle to moderate rolling terrain with some seasonally softer ground in the bottoms. Lower drainages with some alder are found across the center and along most of the north edge except the very far north. These areas can and should be included during future management but may require frozen ground.																																																										
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments					
6	6220 - Alder/willow	Nonstocked	17.2			No	Dense alder in most areas with mixed lowland conifer and some black ash. Small upland hump located within in the south.					
								Sub-Canopy Species	Density	Avg. Height	Size	
								Northern White Cedar	Low	Unspecified	Pole	
								Tag Alder	Medium		Tall Shrub	
Black Ash	Medium		Sapling									
7	6239 - Mixed Emergent Wetland	Nonstocked	29.2		Unspecified	No	Old beaver flooding filling in with grass, willow. New beaver activity is reflooding this area.					
8	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	5.2	70	111-140	N/A	A lower drainage borders the south edge. Steeper terrain along most edges. Sparser, rocky areas may need to be excluded from future management.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Red Maple	20	Log/Pole	10	
								Paper Birch	25	Log/Pole	10	70
								Quaking Aspen	20	Log	14	70
								Balsam Fir	5	Pole	8	
								White Pine	15	Log	16	
								Hemlock	5	Log/Pole	11	
								Northern White Cedar	5	Pole/Log	9	
								Black Ash	5	Pole	9	
Sub-Canopy Species	Density	Avg. Height	Size									
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9	6239 - Mixed Emergent Wetland	Nonstocked	1.3		Unspecified	No	Bog					
10	4130 - Aspen	Sapling Well	15.3	5	Immature	N/A	Dense, fully stocked saplings with scattered small sawlog white pine. There is a good component of red maple competing with the aspen saplings. Narrow, uncut buffer was left along water in the north. Aspen is mostly bigtooth. Harvested 11/2016. TS #32-019-13-01, Princeton Pub.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Bigtooth Aspen	10	Sapling	2	5
								Red Maple	35	Sapling	1	5
								White Pine	4	Log	12	
								Quaking Aspen	51	Sapling	2	5
11	4130 - Aspen	Sapling Well	68.9	13	Immature	N/A	Dense aspen sapling stand. Some softer ground patches and drainages, mainly in the west half of this stand. Strips of retention areas along the south edge bordering lowland. Cut by Minerick under contract #10-03-01. Fully stocked 1" aspen regen with numerous soft maple stump sprouts 6-15' tall.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Red Maple	5	Sapling	2	13
								Quaking Aspen	93	Sapling	2	13
								White Pine	2	XLog	18	



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12	4130 - Aspen	Poletimber Well	43.4	47	81-110	N/A	<p>Healthy aspen pole stand. More conifer mixed in the south and east. Areas that are higher in elevation have larger diameter trees and bigtooth. Dense hardwood growing in, most near large sapling to pole sized merchantable trees. there is a small patch of pure maple in the SW that could be retained and thinned. Old site condition for hawk nest was deleted from bubble on the north end of this stand, check for future harvests, 5/2020, EB. Hold stand until next YOE, this will increase overall average diameter and allow more of the hardwood poles to become more merchantable.</p>																																																	
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13	42210 - Natural Red Pine	Sawtimber Well	13.3	126	111-140	N/A	<p>Large red pine log trees with a patchy mix of conifers and hardwoods. Rocky, rolling terrain across stand. Some areas, especially around edges, with short steep rock ledges. Most areas could be operated around easily. Flat lowland patches of black spruce within.</p> <p>Removed site condition for "blocked by physical obstacle" on 4/21/20.</p>																																																	
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14	6119 - Mixed Lowland Deciduous Forest	Sawtimber Medium	11.6	87	51-80	N/A	<p>Deteriorating larger black ash with other mixed species. Sparser canopy in manageable area. Approximately the west half can be managed before transitioning to softer, stunted black ash / alder ground in the east half.</p>																																																	
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15	3102 - Grass	Nonstocked	7.7	0		No	Gas pipeline constructed in 2019.																																																	
16	623 - Emergent Wetland	Nonstocked	14.5		Unspecified	No	Beaver flooding.																																																	



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17	4199 - Other Mixed Upland Deciduous	Poletimber Well	44.3	89	81-110	N/A	Rolling, steep rocky terrain with poorer quality hardwoods. The west is not accessible due to steep rock and a drainage along the south edge. Topo suggests flatter ground in the east but was not accessed this YOY. Any operable areas will have to be access from the south through stand 30. Should be able to manage areas of lesser terrain and rock when adjacent stand to the south is harvested next.																																																		
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18	42200 - Natural White Pine	Sawtimber Well	5.9	126	141-170	N/A	Very large diameter white pine. Aspen, mixed hardwood, and hemlock scattered within. Steep rock ledge along west edge going down almost all the way to water.																																																		
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19	429 - Mixed Upland Conifers	Sapling Well	13.6	23	1-50	N/A	Cut in 1997 under permit # 009-93-01, the stand consists of 1-2" aspen and fir with scattered large white pine sawtimber. Dense aspen and fir seedlings and saplings. North/south ridge dropping to tag alder.																																																		
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20	42110 - Planted Red Pine	Poletimber Well	21.2	31	111-140	N/A	Planted red pine poles with fir and jack pine competition. Fir and jack pine are the same height as red pine and are directly competing for canopy room. Fir has declined from budworm damage and most will not be salvageable next YOY, or much sooner, if left untreated. Red pine is patchy in areas with a density that is too light for a row thinning but some trees in rows could be marked out for release.																																																		
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
21	4199 - Other Mixed Upland Deciduous	Sawtimber Well	38.8	70	81-110	N/A	Diverse mix of poor quality hardwood and mixed larger diameter aspen. At least a couple separate drainage swales run across stand into the adjacent lowland. This stand needs a regeneration harvest but may require some line work around inaccessible areas. The finger in the north has red pine on rock ledges and is all included in the 300' trout stream buffer.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Red Maple		35	Log/Pole	10	70	Balsam Fir		
Paper Birch		7	Pole/Log	9		Full		
Quaking Aspen		27	Log/Pole	10		Variable		
Black Spruce		5	Pole	8		Sapling		
White Pine		5	XLog	18				
Sugar Maple		15	Pole/Log	9				
White Spruce		3	Log	12				
Red Pine		3	Log	14				
22	42200 - Natural White Pine	Sawtimber Medium	46.5	96	51-80	N/A	Dense fir sapling understory topped by aspen saplings then topped by pine in most areas. Pine ranges from sparse stocking to very dense patches in areas. Any harvest of pine would do significant damage to well established saplings at this time. Stand treated by LaFleur fall 2006 under permit # 011-03-01. Stand is comprised of red and white pine with a scattering of jack pine and aspen. High ba's in places, low ba in others.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
White Pine		60	Log/Pole	13	96	Balsam Fir		
Red Pine		40	Log	14		High		
						Variable		
						Sapling		
						Full		
						>20 feet		
						Sapling		
						Medium		
						>20 feet		
						Sapling		
23	3105 - Mixed Upland Herbaceous	Nonstocked	2.0			No	Wildlife opening of grass and sweet fern.	
Sub-Canopy Species		Density	Avg. Height	Size				
Sweet Fern		High		Tall Shrub				
24	4133 - Aspen, Mixed Pine	Poletimber Well	131.5	26	51-80	N/A	Dense aspen saplings topped by large pine in a lot of areas, especially in the west/central portion of the stand. Aspen in transitioning to pole sized trees where sunlight is available but still sapling size where topped by pine. SE and NW areas transition into more of a pure aspen stand. A3W7R7. Treated under contract # 08-93-01. Two inch aspen saplings with scattered large red and white pine.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Quaking Aspen		55	Pole/Sapling	5	26	Balsam Fir		
White Pine		10	Log	16	96	Low		
Red Pine		25	Log	14		Variable		
Bigtooth Aspen		10	Pole/Sapling	5	26	Sapling		
						Low		
						Variable		
						Sapling		
						Full		
						>20 feet		
						Sapling		
25	4311 - Pine, Aspen Mix	Poletimber Well	52.5	33	51-80	N/A	Aspen transitioning to pole sized trees. Scattered large red pine is more dense along the edges. Denser conifer component along the west edge and within the river buffer with rocky outcrop terrain, very dense fir saplings in these areas.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Quaking Aspen		48	Pole/Sapling	6	33	Balsam Fir		
Balsam Fir		10	Pole/Sapling	5		High		
White Pine		2	Log/Pole	11		Variable		
Red Pine		15	XLog	18		Sapling		
Jack Pine		10	Pole/Sapling	5				
Bigtooth Aspen		10	Pole	7				
White Spruce		5	Sapling/Pole	4				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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26 6128 - Lowland Coniferous, Mixed Deciduous Poletimber Poor 75.3 100 1-50 N/A Dense alder in most areas with mixed lowland conifer and some black ash. Small upland hump located within in the south.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Ash	30	Pole	8		Alder	High	5 - 10 feet	Tall Shrub
Black Spruce	30	Pole	8					
Northern White Cedar	30	Pole/Log	9	100				
Balsam Fir	10	Pole/Sapling	6					

27 6129 - Mixed Coniferous Lowland Forest Poletimber Medium 23.8 90 1-50 N/A Flooded lowland flat along river. Patchy canopy, cedar, and alder swales would make harvest difficult.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	40	Pole	8	90	Alder	High	5 - 10 feet	Tall Shrub
Black Spruce	30	Pole	7	90				
Tamarack	15	Pole	8					
Balsam Fir	5	Pole/Sapling	5					
Quaking Aspen	5	Pole	8					
Balsam Poplar	5	Pole	9					

28 4311 - Pine, Aspen Mix Poletimber Poor 1.9 45 51-80 N/A Sparse stand on rocky ground. Variable.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	40	Pole/Sapling	6	45	Balsam Fir	Low	Variable	Sapling
White Pine	15	Pole/Log	8		White Pine	Low	Variable	Sapling
White Spruce	5	Pole/Sapling	6					
Jack Pine	35	Pole	8	45				
Red Maple	5	Pole/Sapling	6					

29 500 - Water Nonstocked 7.8 Unspecified No Middle Branch of Escanaba River

30 4319 - Mixed Upland Forest Poletimber Well 142.0 27 51-80 N/A Large white pine evenly scattered across stand. Red oak and hardwood poles mixed in. Very thick understory of fir and bent over saplings near impossible to navigate through in areas. Lowland swale cuts up the center/east. Stand treated under contract # 10-93-01. Covertime immediately after treatment was W7F2, current stand is an A3F3W7, with aspen and fir the dominant species. Numerous scattered mine pits and small scattered 1/10 acre openings among the dense fir.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	35	Sapling/Pole	4	27	Balsam Fir	High	10 - 20 feet	Sapling
Balsam Fir	15	Sapling/Pole	4		Red Maple	Medium	Variable	Sapling
White Pine	30	XLog	20	120	Quaking Aspen	Medium	>20 feet	Sapling
Red Pine	2	XLog/Log	14					
Red Oak	8	Log	14					
Red Maple	10	Sapling	3					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																				
31	42110 - Planted Red Pine	Poletimber Medium	25.5	44	51-80	N/A	2021: Variable densities since harvest last entry removed JP. Not enough BA to thin. 10/17/2018 stand was cut. All jack pine removed and red pine was row thinned. some areas that were dense to jack pine have a fairly open canopy while the areas more dense to red pine have a more solid canopy. R6 plantation. Area was clearcut and roller-chopped/scarified in 1977. Red pine planted 1978, Release treatment in 1982-3 spot application with herbicide spray. Some rock outcrop areas. Some large white and red pine as well as oak left throughout stand. Also fir and spruce are uncommon overstory associates. Jack pine has seeded in many areas. Jack pine is 1/2 to 1 stick tall. Snowmobile trail passes through stand. Higher stocking of red pine found to south.																																																				
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32	6125 - Lowland Black Spruce, Jack Pine	Sawtimber Medium	24.8	70	51-80	N/A	Old inventory data was used. Could not get within a mile of this area due to blocked roads from past snowstorm damage and surrounded by rivers. J5F4M4 A mix of primarily jack pine and black spruce with fir, wp, rp, cherry, aspen, and white birch along the bank of the Escanaba River. Recommend keeping it an SCA for the riparian benefits.																																																				
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33	6120 - Lowland Cedar	Poletimber Medium	15.2	124		N/A	Medium stocked cedar with associated swamp conifers.																																																				
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34	4130 - Aspen	Sapling Well	2.7	3	Immature	N/A	Aspen was cut in 2017. Accessed from private.																																																				
35	42121 - Planted Jack Pine, Mixed Deciduous	Sapling Well	39.9	24		N/A	Old inventory data was used. Could not get within a mile of this area due to blocked roads from past snowstorm damage and surrounded by rivers. Well stocked 3" jack pine and aspen saplings 12-20' tall.																																																				
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36	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	15.1	90	81-110	N/A	Larger red oak with wide diameter canopies. Dense fir understory with scattered pine. Some sparser patches in the canopy but a majority has crowded crowns and will start seeing decline soon.																																																								
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37	4130 - Aspen	Sapling Well	32.5	4	1-50	N/A	Sapling stand with scattered large pine.																																																								
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38	4139 - Aspen, Mixed Deciduous	Sapling Well	41.8	4	1-50	N/A	Sapling stand with mixed aspen/red maple whips and scattered residual maple poles and large pine.																																																								
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39	122 - Road/Parking Lot	Nonstocked	1.4	0	Unspecified	No	M-35 and ROW area.																																																								
40	4111 - S.Maple, Hard Mast Association	Sawtimber Well	46.2	105	141-170	N/A	Hardwood flat with slight rolling terrain. Dense fir sapling understory. Moderate to poor quality maple with dense fir saplings around edges and west half. Majority of interior has moderate quality at best with a lot of good quality maple mixed in. Stand quality should significantly improve with future thinning's. 140 150 150 Average near 150 BA.																																																								
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41	4319 - Mixed Upland Forest	Sawtimber Well	18.6	126	111-140	N/A	Diverse mix of pine and oak with maple poles and aspen. A couple small patches are dense to aspen. Large canopy red oak is evenly dispersed across stand. Most fir has died out with the exception of some healthy areas in the NE corner. The NE corner is very dense to white pine averaging 12"-14" while the rest of the white pine across the stand average 18"+. Average of 140+ BA in most areas.																																																																					
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42	6122 - Black Spruce	Poletimber Well	27.6	88	111-140	N/A	Nice black spruce flat on mossy ground. Small patches of cedar scattered within can be managed around. Smaller, slight upland patch along north edge with some mixed aspen/hardwood. Trout stream buffer consumes most of this stand. No surveyed property corners found in the NE, did not look in SE for corner. Former SCA. Black spruce and tamarack swamp with upland ridges of aspen and jack pine.																																																																					
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43	122 - Road/Parking Lot	Nonstocked	1.0		Unspecified	No	M-35 and ROW area.																																																																					
44	6229 - Mixed lowland shrub	Nonstocked	6.5			No	East Branch Escanaba River and adjacent lowland.																																																																					
45	4134 - Aspen, Spruce/Fir	Sawtimber Well	6.2	60	111-140	N/A	Large aspen transitioning downslope to more conifer along the river flat. With the trout stream buffer there is only about 2 acres of harvestable land here which is blocked by young aspen saplings/poles. Access would require a new road or trail through Marquette County forest.																																																																					
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46	122 - Road/Parking Lot	Nonstocked	2.4		Unspecified	No	Gwinn DNR Field Office and associated buildings/parking lot.																																																																					



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47	42290 - Natural Mixed Pine	Sawtimber Well	4.7	106	111-140	N/A	Thin strip of large pine along Gwinn Field office. There has been a pair of Merlin's nest in this stand by the office for a number of years.																																																				
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48	710 - Sand, Soil	Nonstocked	0.6	0		No	Active sand/gravel pit.																																																				
49	6120 - Lowland Cedar	Poletimber Well	10.4	87	111-140	N/A	Flat drainage of dense cedar poles with a light canopy of black spruce topping over it. Fades into sparser conifer in the south before transitioning to a alder hardwood stand. Large 30' high rock in center named "Eric's Rock".																																																				
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50	4130 - Aspen	Sapling Well	25.1	5	Immature	N/A	Dense, fully stocked saplings with scattered small sawlog white pine. There is a good component of red maple competing with the aspen saplings. Aspen is mostly bigtooth. Harvested 11/2016. TS #32-019-13-01, Princeton Pub.																																																				
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Quaking Aspen	51	Sapling	2	5																																																							
51	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	9.9	65	111-140	N/A	Diverse patch of mixed hardwood and conifer transitioning into lower ground along the east edge. A slope runs along the west edge. Poorer quality trees. A soft drainage cuts off the SE area that has sparser, declining aspen.																																																				
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53	500 - Water	Nonstocked	4.7	0		No	East Branch Escanaba River																																																				



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55	6220 - Alder/willow	Nonstocked	5.5	0	Unspecified	No	Flooded alder drainage with some conifer. OPIC - FMD: C4C2L unproductive. Alder thick in spots. Flooded and some mortality in spots. Some small ash here and there.																																																														
56	6225 - Bog	Nonstocked	0.8		Unspecified	No																																																															
57	4311 - Pine, Aspen Mix	Sapling Well	13.6	30	Immature	N/A	Scattered large white pine with aspen regeneration understory. Cut in 1991. Very thick white pine saplings approximately 24 feet tall. Deer runways. Residual white pine overstory trees left from last harvest. White birch, black cherry, and cedar saplings found. Black cherry poletimber present.																																																														
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58	6220 - Alder/willow	Nonstocked	5.4		Unspecified	No	Flooded creek area with alder and some conifer.																																																														
59	42120 - Planted Jack Pine	Poletimber Well	14.1	31	51-80	N/A	Small pole sized jack pine stand. Some snowstorm damage with bent over trees but not too significant. Aspen filling in any open areas within pine.																																																														
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60	122 - Road/Parking Lot	Nonstocked	0.6		Unspecified	No	Southgate drive.																																																														



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																														
61	42290 - Natural Mixed Pine	Sawtimber Well	1.9	86	81-110	N/A	Large WP (10-60 BA) with a mix of tree species under. A lot of non-merchantable trees.																																																														
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63	429 - Mixed Upland Conifers	Sapling Medium	11.0	11	Immature	N/A	Cedar on lowland edge and scattered red and white pine will be left. Also left advanced fir regeneration. Convert to fir and whatever seeds in. Stand harvested as "Backyard Jack Pine" #010-07-1 - cut (and chipped) in November, 2010. Scattered red oak saplings. Heavy sedge with sweetfern. Jack pine seedlings 2 to 3 feet tall. White spruce and white pine saplings found. Regeneration is patchy but adequate.																																																														
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64	4130 - Aspen	Poletimber Well	0.8	44	51-80	N/A	Small stand north of Southgate Road.																																																														
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65	320 - Upland Shrub	Nonstocked	5.3	0		42120 - Planted Jack Pine	2018: Stand had a final harvest completed during the summer of 2018. All trees were harvested including the growing in openings found within. Some hardwood poles were left on the steep slope north of the road. Stand is under FTP 32-942 for jack pine regeneration. 2010: Natural stand resulting from wildfire in 1969, Budworm in stand 10 years ago. Trash dumps cleaned up first week of November 2005.																																																														
67	42200 - Natural White Pine	Sawtimber Well	2.3	86	1-50	N/A	2021: Large rock outcrop in stand. Thinned in past. Two-aged - large diameter WP with a mix of tree species under. 2011: White pine crowns vigorous. Patches of alder. Blueberry and Labrador tea. Trembling aspen and red pine are infrequent overstory associates. White pine saplings present.																																																														
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68	720 - Exposed Rock	Nonstocked	2.9		Unspecified	No	This area mostly rock outcrop. Some scattered trees: JP, W spruce, WP, cherry, etc.	
69	6122 - Black Spruce	Sapling Well	5.9	32	1-50	N/A	2021: Variable densities. Some low wet areas with few trees.	
		Canopy Species	% Cover	Size Class	DBH	Age	2011: Part of this stand was cut in 1989 but most was non-stocked or poorly stocked then. Blueberry and lichens in upland areas. White birch saplings found.	
		Black Spruce	50	Sapling/Pole	4	32		
		Balsam Fir	30	Sapling/Pole	4			
		White Pine	5	Log/Pole	16			
		Tamarack	10	Sapling/Pole	4			
		Jack Pine	5	Sapling/Pole	4			
		Sub-Canopy Species		Density	Avg. Height	Size		
		Labrador Tea		High	< 5 feet	Tall Shrub		
		Tag Alder		High	5 - 10 feet	Tall Shrub		
		Black Spruce		Low	< 5 feet	Sapling		
		Balsam Fir		Medium	Variable	Sapling		
70	4134 - Aspen, Spruce/Fir	Sapling Well	4.4	13	Immature	N/A	Stand harvested in 2008 under permit #32-013-07-01. Fully stocked. Low numbers of residual red and white pine poletimber.	
		Canopy Species	% Cover	Size Class	DBH	Age	2011: Sphagnum moss. Variable tree heights. Patches of C6 to west. Snowmobile passes through stand. White birch, trembling aspen, balsam fir, and red maple are uncommon overstory associates.	
		Quaking Aspen	50	Sapling	2	13		
		Balsam Fir	20	Sapling	4			
		Black Cherry	10	Sapling	2			
		White Spruce	5	Sapling	2			
		Jack Pine	5	Sapling	2			
		Red Maple	5	Sapling	2			
		White Pine	5	Sapling	2			
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		Balsam Fir		Low	Variable	Sapling		
71	6122 - Black Spruce	Poletimber Well	46.7	71	81-110	N/A	2021: Variable densities, species and sizes. Some low wet drainages.	
		Canopy Species	% Cover	Size Class	DBH	Age	2011: Sphagnum moss. Variable tree heights. Patches of C6 to west. Snowmobile passes through stand. White birch, trembling aspen, balsam fir, and red maple are uncommon overstory associates.	
		Black Spruce	67	Pole/Sapling	7	71		
		Tamarack	10	Pole	8			
		Jack Pine	5	Pole	8			
		Quaking Aspen	5	Pole/Log	9			
		White Pine	2	Log/Pole/XLog	16			
		Paper Birch	2	Pole/Sapling	7			
		Red Maple	2	Pole	8			
		Northern White Cedar	5	Pole/Log	8			
		Balsam Fir	2	Pole/Sapling	6			
		Sub-Canopy Species		Density	Avg. Height	Size		
		Labrador Tea		High	< 5 feet	Tall Shrub		
		Black Spruce		Low	5 - 10 feet	Sapling		
		Balsam Fir		Low	5 - 10 feet	Sapling		
72	429 - Mixed Upland Conifers	Sapling Well	6.9	13	Immature	N/A	Areas of rock outcrops. Cut 2008 under permit #32-013-07-01. Blueberry, bracken fern, and raspberry comprise herbaceous layer. White pine, red maple, aspen, and tamarack saplings found. Remnant supercanopy red and white pine remain from past overstory.	
		Canopy Species	% Cover	Size Class	DBH	Age	2011: Sphagnum moss. Variable tree heights. Patches of C6 to west. Snowmobile passes through stand. White birch, trembling aspen, balsam fir, and red maple are uncommon overstory associates.	
		Jack Pine	18	Sapling	1			
		Balsam Fir	48	Sapling	1	13		
		Black Cherry	30	Sapling	1			
		Black Spruce	2	Pole	8			
		White Pine	2	XLog/Log	18			
		Sub-Canopy Species		Density	Avg. Height	Size		
		Black Spruce		Medium	< 5 feet	Seeding		
		Tag Alder		Low	5 - 10 feet	Tall Shrub		
73	6229 - Mixed lowland shrub	Nonstocked	21.5			No	Halfway creek floodplain. Alder.	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																
74	429 - Mixed Upland Conifers	Poletimber Well	7.4	81	51-80	N/A	Stand on slope leading down to Halfway Creek. Rock outcrops to west.																																																
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75	42120 - Planted Jack Pine	Poletimber Well	17.3	32	51-80	N/A	2020: Very few scattered other trees, mainly along west edge. (apsen, PB, fir, spruce, WP)2010: Jack pine plantation 2" dbh well stocked planted 1989. Some older dumped refuse. Snomobile trail through stand. Several unauthorized ATV trails leading to subdivision to south. Some areas of exposed bedrock.																																																
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76	3102 - Grass	Nonstocked	9.2			No	Powerline ROW. High level of ORV usage.																																																
77	6122 - Black Spruce	Poletimber Well	8.1	81	51-80	N/A	2020: North part of stand is sloping riparian zone along river. Drainage from highway to river within main part of stand. Scattered large diameter WP.																																																
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78	42290 - Natural Mixed Pine	Poletimber Well	4.9	32	51-80	N/A	2020: Mix of pine, generally pole sized but still a lot of non-merchantable trees. WP are both large supercanopy trees and 4-6" dbh pole trees. 2010: Cut 1988-Not planted. Scattered white pine log trees left along road. Very well-stocked stand.																																																
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79	122 - Road/Parking Lot	Nonstocked	9.9			No	CO RD 553 and right-of-way. ATV trails run along both sides of Co Rd 553.																																																



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80	42121 - Planted Jack Pine, Mixed Deciduous	Poletimber Well	23.0	32	51-80	N/A	2020: Majority of trees are pole sized now, but still many non-merchantable trees. 2010: Stand cut 1in 1988, planted 1989. Well-stocked. Inclusion of aspen saplings and retained white pine supercanopy trees to northwest. Jack pine just short of achieving one-stick merchantable height. Red maple, cherry, and white pine saplings found. Very sporadic fir poletimber.																																													
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81	6122 - Black Spruce	Poletimber Well	35.3	84	81-110	N/A	2010: Steep bank to south. Trees are more dense and larger to south. Heavy Sphagnum moss. Red maple and white birch saplings found. White birch and white pine are uncommon overstory associates.																																													
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82	320 - Upland Shrub	Nonstocked	55.6	0	Unspecified	42120 - Planted Jack Pine	2018: Stand had a final harvest completed during the summer of 2018. All trees were harvested including the growing in openings found within. Some hardwood poles were left on the steep slope north of the road. Stand is under FTP 32-942 for jack pine regeneration. 2010: Natural stand resulting from wildfire in 1969, Budworm in stand 10 years ago. Trash dumps cleaned up first week of November 2005.																																													
83	500 - Water	Nonstocked	1.7	0		No	Pond/bog.																																													
84	3302 - Low Density Conifer Trees	Nonstocked	0.6	0		No	2010: Some old refuse dumps. Scattered jack pine pole timber present.																																													
85	42220 - Natural Jack Pine	Poletimber Well	1.2	52	81-110	N/A	Retention area. Stand sloped down toward pond. Seasonally wet at the bottom.																																													
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86	42220 - Natural Jack Pine	Poletimber Well	0.1	52	51-80	N/A	Some older piles of refuse in this stand. Powerline ROW through stand leading to private building. 1 to 2 stick jack pine. Site is low quality. There are scattered older and larger jack pine approaching 10 to 12 inches Dbh.																																													
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88	122 - Road/Parking Lot	Nonstocked	3.1		Unspecified	No	Co Rd 557 AND Knudsen Rd.																																													



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																									
89	42210 - Natural Red Pine	Sawtimber Well	26.4	78	111-140	N/A	Mixed pine logs with some patchy canopy gaps mainly north of the road. Some aspen/hardwood saplings in open canopy gaps. Age taken from average sized red pine. 130, 150, 120, 130, 140, 150 Average of 135+ BA.																																																									
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90	42200 - Natural White Pine	Sawtimber Well	17.4	98	81-110	N/A	Large diameter scattered pine with pole sized pine and sapling sized aspen/hardwood mixed in gaps. Dense spruce/fir understory is declining or dead already. 70, 100, 100, 60 Average of 85 BA primarily of larger pine. Area cut 1992 Permit 29-89-1. Left all large red pine, white pine and oak. Now most areas have a thick understory of fir or aspen. Jack pine, white pine, black spruce, red pine and black cherry saplings found. Red oak, bigtooth aspen and white spruce are infrequent overstory associates.																																																									
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91	42210 - Natural Red Pine	Sawtimber Well	39.4	98	111-140	N/A	Mixed pine, heavier to red pine, ranging in size from areas with large pole sized trees to large log trees. Dense BA (140+) in south transitions to lighter BA around 100+ in the north. Dense spruce/fir sapling understory with some decline. Near pure conifer component except in the far north where pine canopy becomes more sparse and has small pockets of mixed aspen/hardwood saplings. Stand line along north edge borders sparser canopy where aspen/ hardwood saplings became more continuously established. Small corner SE of highway has an ATT building. Age taken from average sized red pine.																																																									
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92	122 - Road/Parking Lot	Nonstocked	1.2		Unspecified	No	Serenity Drive.																																																									
95	3102 - Grass	Nonstocked	6.8		Unspecified	No	Powerline right-of-way. Becomes rocky at west end.																																																									
96	4199 - Other Mixed Upland Deciduous	Poletimber Well	6.9	90	81-110	N/A	Denser oak on upper knob, transitioning to sparser maple along the bottoms. Allow one more YOE and possibly consider an even aged management. 110, 100, 70, 60 Average of 85 BA.																																																									
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																			
97	4311 - Pine, Aspen Mix	Sapling Well	50.5	29	1-50	N/A	<p>Patchy aspen regeneration depending on canopy. More open canopy are have aspen near merchantable pole size aspen, aspen limited to canopy gaps average 3" or smaller. Dense fir sapling understory has nearly all died out in areas. Large diameter, evenly scattered pine across stand.</p> <p>Area cut 1992 Permit 29-89-1, removing all but large red pine, white pine, and oak. Red oak saplings found. Hemlock and cedar are infrequent overstory associates. Supercanopy red and white pine. Very dense stand.</p>																																																																			
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98	122 - Road/Parking Lot	Nonstocked	1.7		Unspecified	No	Serenity Drive.																																																																			
99	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Medium	8.5	108	51-80	N/A	<p>Patchy, open canopy across most of the stand except in the far SE corner and bottom slice has dense oak/pine mix. Allow gaps to fill in with more pole sized trees before managing.</p>																																																																			
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104	122 - Road/Parking Lot	Nonstocked	1.5	0		No	road.																																																																			
105	4119 - Mixed Northern Hardwoods	Sawtimber Well	36.5	105	111-140	N/A	<p>Good quality hardwoods on higher elevation with mix of aspen and oak. Slope along the west/northwest edges are predominately oak with aspen mix and red maple poles. Rocky, rolling terrain, steeper along some edges. Quality decreases in lower terrain. Fir saplings become more dense along bottoms of slopes and along the highway. 130 150 110 average of 130 BA.</p>																																																																			
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106	6122 - Black Spruce	Poletimber Medium	11.8	86	51-80	N/A	Stunted black spruce transitioning to open bog center. Some edges may be managed when adjacent stand is harvested.																																					
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107	122 - Road/Parking Lot	Nonstocked	0.3			No	Road.																																					
108	6122 - Black Spruce	Poletimber Medium	3.8	52	51-80	N/A	Slope and low, flat area around pond. Seasonally wet. Many of the spruce are dying.																																					
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