



Compartment Review Presentation

Traverse City Forest Management Unit

Compartment 61004

Entry Year 2024

Acreage: 3,363

County Benzie

Management Area: Benzie Moraines

Stand Examiner: Tim Webb

Legal Description:

T27N R13W Sections 6, 7, 8, 18; T27N R14W Sections 1, 12, 13

Identified Planning Goals:

According to the Regional State Forest Management Plan, this compartment is included in the Benzie Moraines management area (MA). Vegetative management in this MA is aimed at producing various forest products; maintaining or enhancing biodiversity conservation and wildlife habitat; protecting areas of unique character and threatened, endangered and special concern species; providing for forest-based recreational uses; and Native American non-commercial use of forest products. Timber management for this 10-year planning period includes improving the age-class structure of aspen and red pine and continued selection harvesting in high-quality northern hardwoods to achieve an all-age structure. Wildlife management objectives include increasing the structural complexity of northern hardwood communities for interior forest species and perpetuating early-successional communities for species adapted to young forests. Expected trends within this 10-year planning period are continued forest pest issues and an increase in recreational trail use.

Northern hardwood stands and red pine and white pine plantations occupy most of the uplands in compartment 4. Past treatments in the deciduous types have had a variety of outcomes depending on soil type, topography, amount of aspen or the species mix, degree of canopy opening, and potential for beech regeneration. More recent regeneration harvests have resulted in only beech and ironwood regeneration; future harvest prescriptions should be curtailed or modified until better silvicultural methods for maple and basswood regeneration are developed. Some hardwood stands in draws and depressions, influenced by cold air drainage, are occupied by quaking aspen, low-quality cherry, and other hardwoods. Many of these sites have a well-stocked understory of red and sugar maple which will further develop if the aspen overstory is allowed to senesce.

Pine plantations can continue to be managed with periodic thinnings. White pine plantations with a component of hardwoods can gradually be managed toward a more natural mix, focusing on retention of higher quality trees with each thinning and on increasing within-stand diversity. Final harvest and replanting should be prescribed for a suitable proportion of the red pine plantations.

Numerous small wetlands and herbaceous openings are situated in kettle depressions. Several of these wetlands have begun to harbor phragmites. Herbicide treatment or other control methods should be considered to eliminate this invasive species, as well as autumn olive and garlic mustard which are also in or near the compartment.

Soil and topography:

Soil types are predominantly well drained to excessively drained sands, including Benzonia, Kaleva, Benona, Fogg, and other sandy soils. Small areas of loamy sand occur in places. Wetlands contain histosols or muck soils. Most of the compartment is situated on moraine and pitted outwash plain landforms. Consequently, the land is rather hilly with numerous kettle depressions.

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

Compartment 4 connects on the north, west, and south with a fairly large block of state land having scattered private inholdings. To the east and northeast are rural residential properties, small agricultural fields, fragmented private forest land, and lakefront homes on Pearl Lake and other small lakes. Mistwood Golf Course is about 1½ miles to the east. New development has slowed in recent years.

Unique Natural Features:

State land surrounds Lime Lake and Hartman Lake within the compartment, with additional state land frontage on Pearl and Garey Lakes. Small wetlands are scattered through the compartment, situated in kettle depressions.

Archeological, Historical, and Cultural Features:

There is evidence within the compartment of early 1900s homesteads, including lilac bushes, fruit trees, black locust trees, and remnant fields.

Special Management Designations or Considerations:

There are two Special Conservation Areas within the compartment. These areas, previously mapped as proposed old growth, have been deferred from timber harvest since that former 1997 plan designation. These same areas, more or less, are now designated as Special Conservation Areas. Boundaries have been adjusted to coincide less with forest stands and more with physical features such as roads, trails, and topography. These SCAs are designed to promote structural and successional development of forests, associated wildlife habitat, recreational opportunities, and to maintain a remote, rustic character. Commercial timber harvest is limited to treatments which enhance these values or to respond to serious forest health issues.

Watershed and Fisheries Considerations:

This compartment contains portions of Pearl Lake, Lime Lake, Garey Lake, and Hartman Lake, and is part of the Platte River watershed. There are also numerous wetland areas in this compartment. Fisheries Division currently stocks Lime Lake with walleye in order to create a remote and unique walleye angling opportunity.

Wildlife Habitat Considerations:

A majority of compartment 4 lies along a small moraine ridge. This area is characterized by having many kettle lakes and well drained sands. Existing northern hardwood stands should be managed to perpetuate the cover type. Timber prescriptions in the northern hardwood stands should be designed to promote species diversity as well as to leave snags, coarse woody debris, and conifers. Several small white pine plantations are slowly converting to hardwoods, but currently provide pockets of dense cover for wildlife, such as: eastern gray squirrels, common gray fox, white breasted nuthatches, and blue-spotted salamanders. Pockets of higher quality aspen should be maintained within hardwood stands through periodic patch cutting. These aspen pockets should be located on the fringe of the hardwood blocks where fires on the outwash plains might have penetrated slightly into moraine country. In general, aspen stands in this area show a strong component of hardwoods and should convert to hardwoods in time. The openings on the moraine ridges are typically the result of frost pockets and consequently need little maintenance.

The southeast corner of the compartment transitions into a pitted outwash plain. This more fire prone area should be managed in conjunction with similar LTAs in neighboring compartments, for a variety of forest age classes, successional stages, and patch sizes, as well as grass/shrub openings. Several upland brush communities here require some removal of woody encroachment via adjacent timber sales.

Mineral Resource and Development Concerns and/or Restrictions

Two active sand/gravel pits exist within one mile southeast of the compartment. There is good potential for sand and gravel within the compartment. Bedrock beneath the compartment appears to be primarily Antrim Shale, but the Antrim is likely too thin here to have significant gas potential. There is no other known potential for oil & gas beneath the compartment, and there has been very sparse exploration in this area. There is no known metallic mineral potential in this part of the state. 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:

Much of the compartment is somewhat remote and hilly, but access is sufficient. Some areas may have fairly long skidding or forwarding routes if prescribed for timber management, but building new roads would be difficult, intrusive, and unnecessary.

Survey Needs:

No survey needs.

Recreational Facilities and Opportunities:

Compartment 4 includes Garey Lake State Forest Campground & Trail Camp. The Shore-to-Shore Riding-Hiking Trail spans the entire compartment north to south, so horseback riding is important here. The Platte River Snowmobile Trail passes through the north part of the compartment. Pearl and Lime Lakes are popular for camping, fishing, and waterfowl hunting. Dispersed recreation includes deer hunting and mushrooming.

Fire Protection:

Fire protection for this area is covered by both Homestead Fire Department and Almira Fire Department. Wildfire coverage is handled out of the Traverse City Field Office. Vehicle access to part of the compartment is limited due to the rolling terrain and lack of seasonal roads or logging skid trails. In other areas of the compartment access is fair but limited. The area is dominated by mature hardwoods with relatively little wildfire history. Water supply sources in the event of a wildfire are readily available from any one of the local lakes in the immediate area.

Additional Compartment Information:

The following reports from the Inventory are attached:

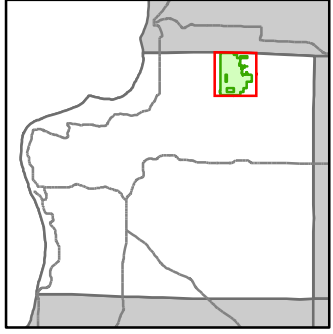
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

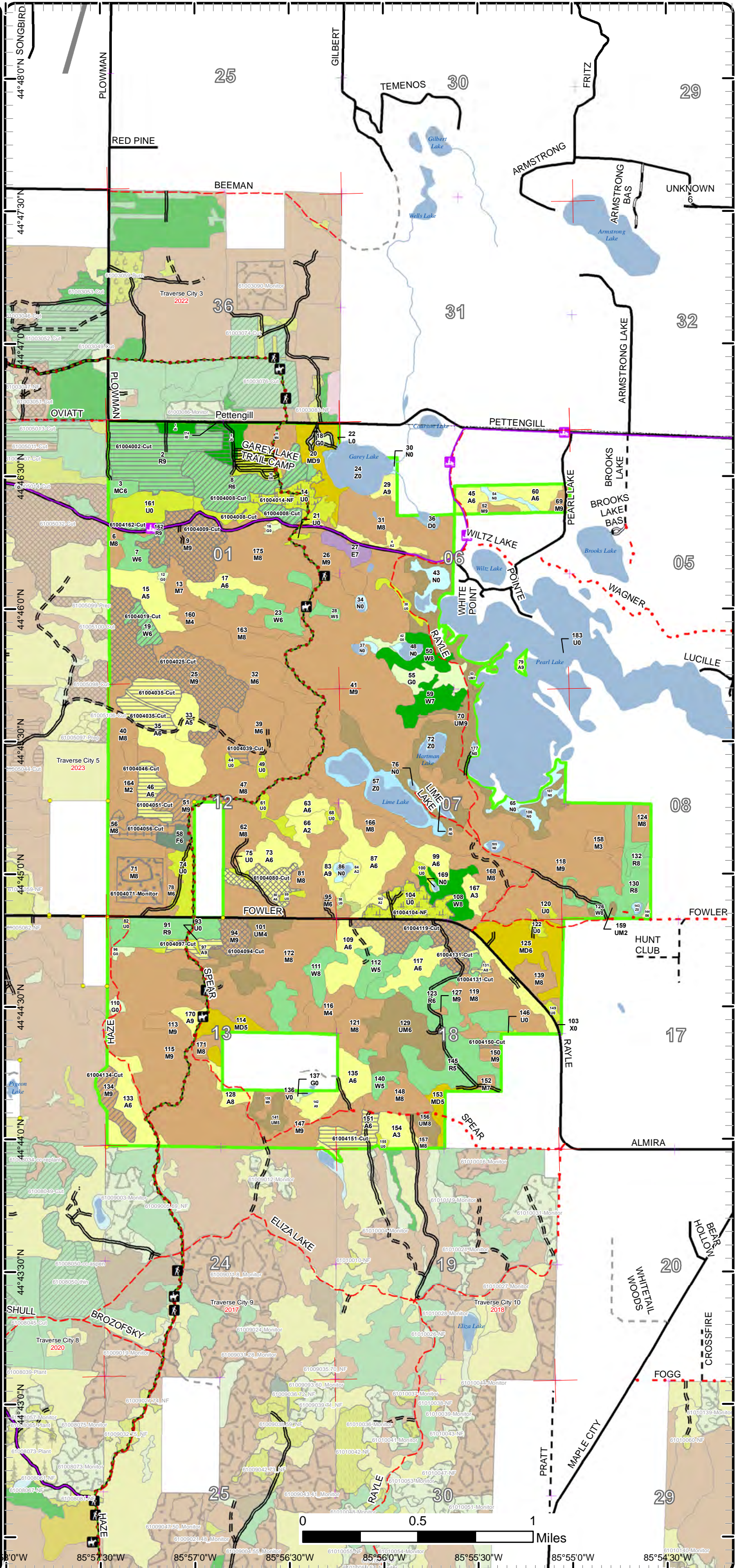
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 4
 T27N, R13W, Sec. 6-8, 18
 T27N, R14W, Sec. 1, 12, 13
 County: Benzie
 Unit: Traverse City
 Mgmt Area: Benzie Moraines
 YOE: 2024
 Acres: 3363.3 GIS Calculated
 Examiner: Tim Webb
 Map Revised: 10/17/2022
 Map Phase: Post Review

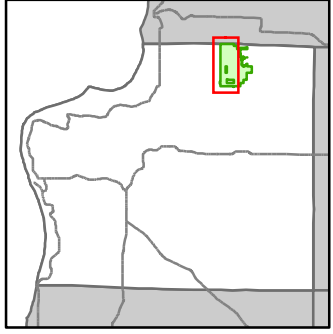


- Miris Corners
- Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
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- Horse Trails
- Snowmobile Trails
- Designated Hiking Trails
- Designated Equestrian Trails
- Designated Multi-Use Trails
- Designated Snowmobile Trails
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Compartment Boundary
- Other Treatment - See Comments
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- Harvest, Overstory Removal
- Thinning (Crown, Low, Systematic)
- Regeneration Survey
- 411 - Northern Hardwood
- 413 - Aspen
- 414 - Other Upland Deciduous
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland

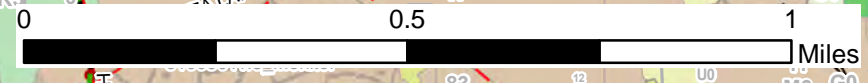
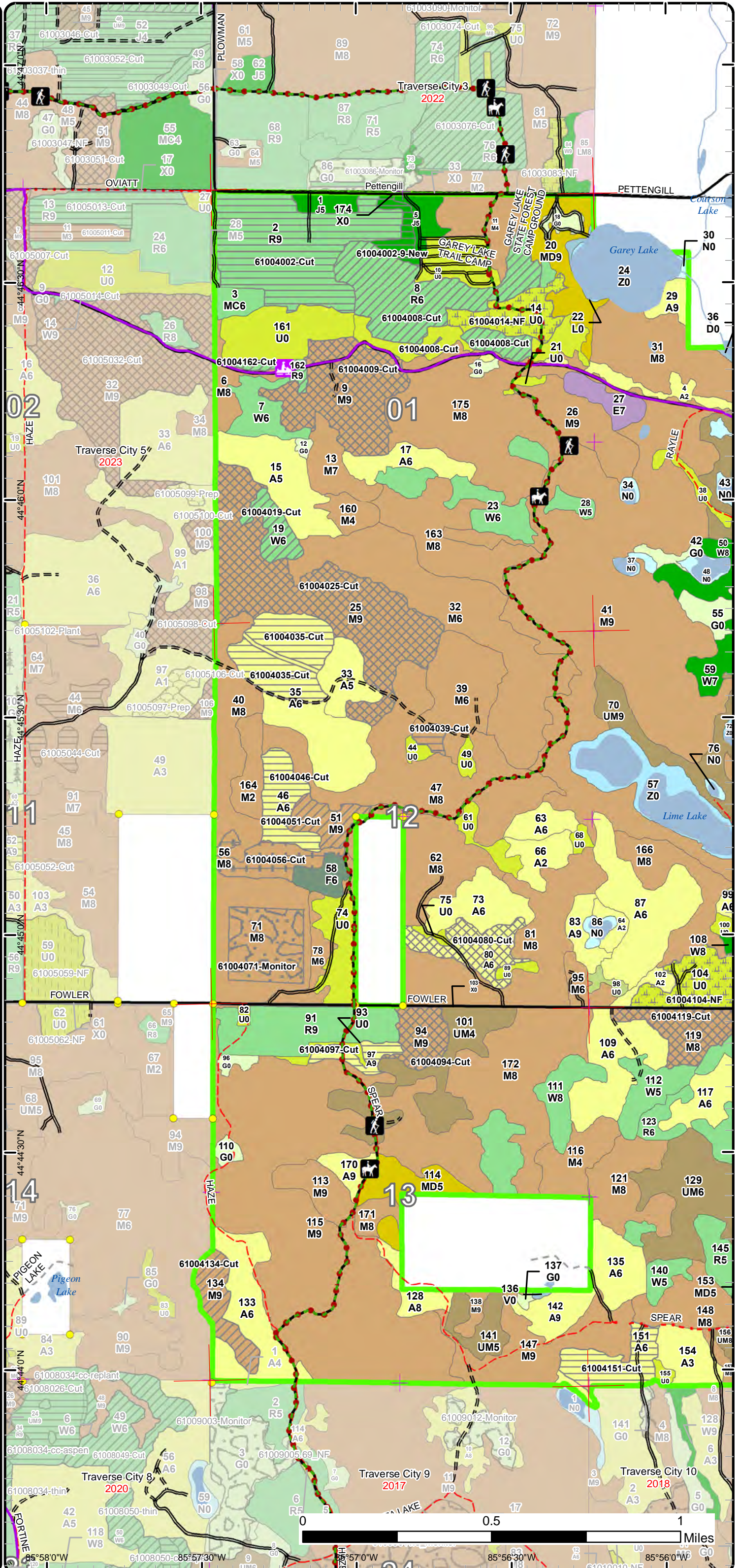


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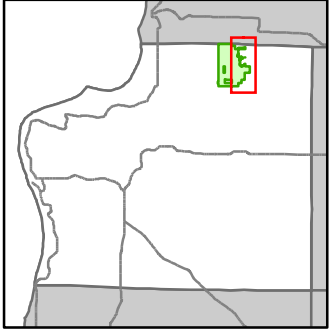
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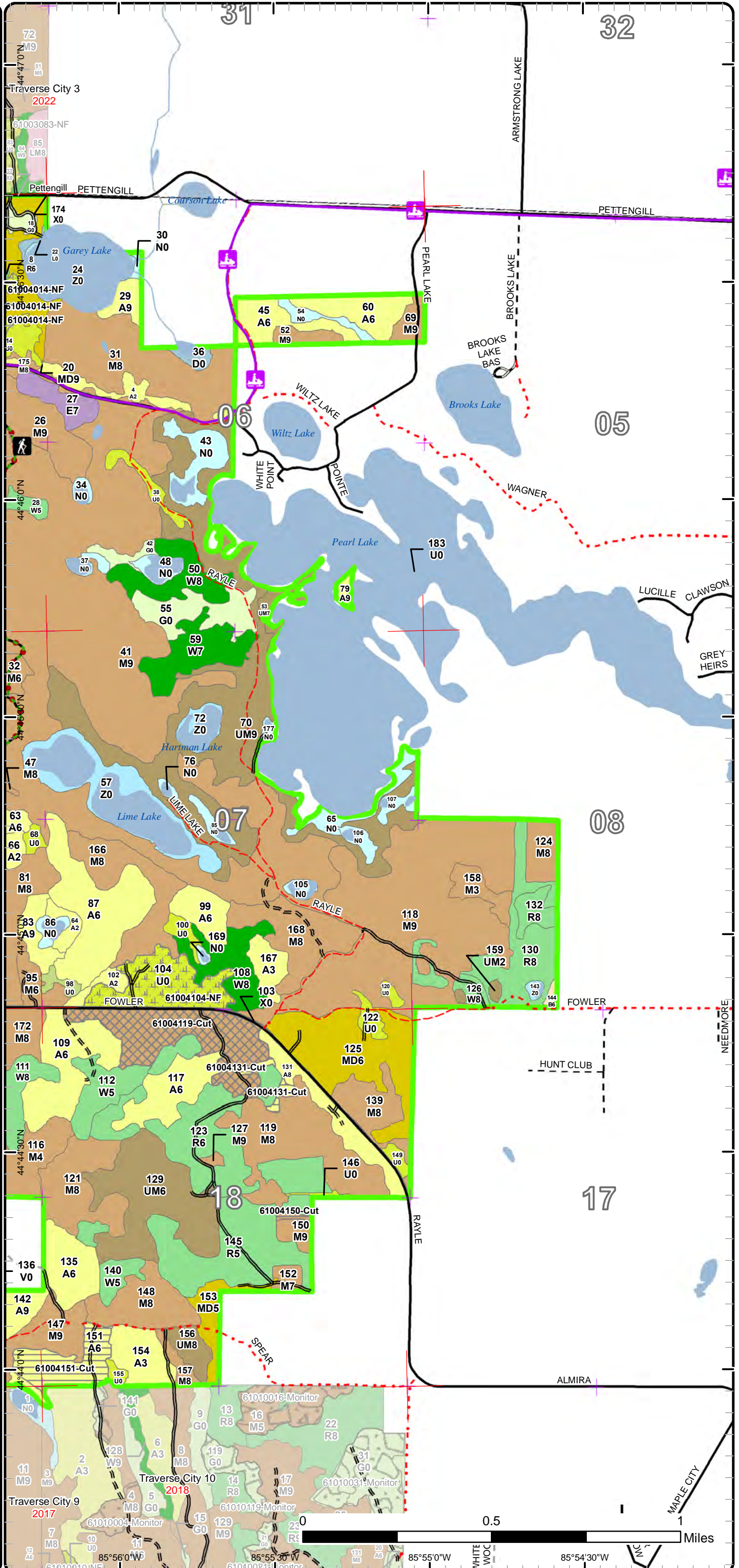
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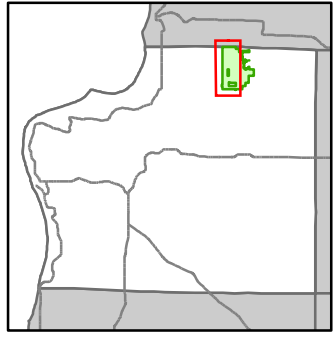
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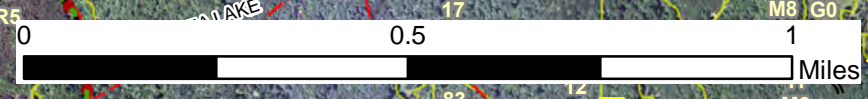
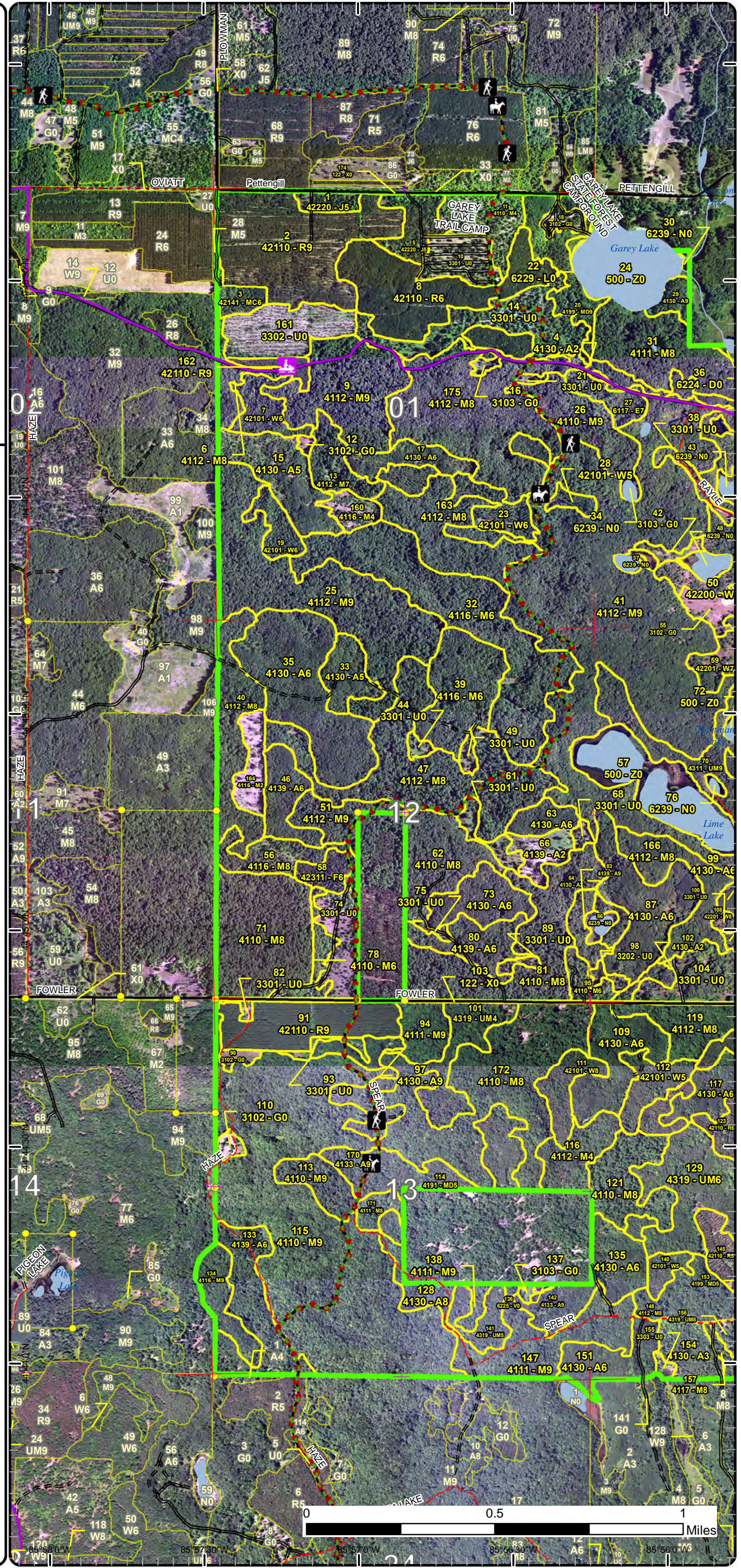
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Stand Boundary Map

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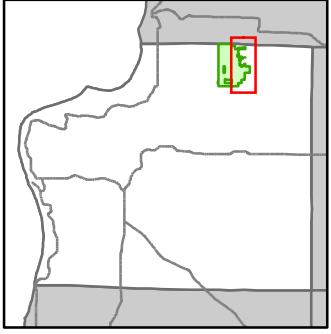


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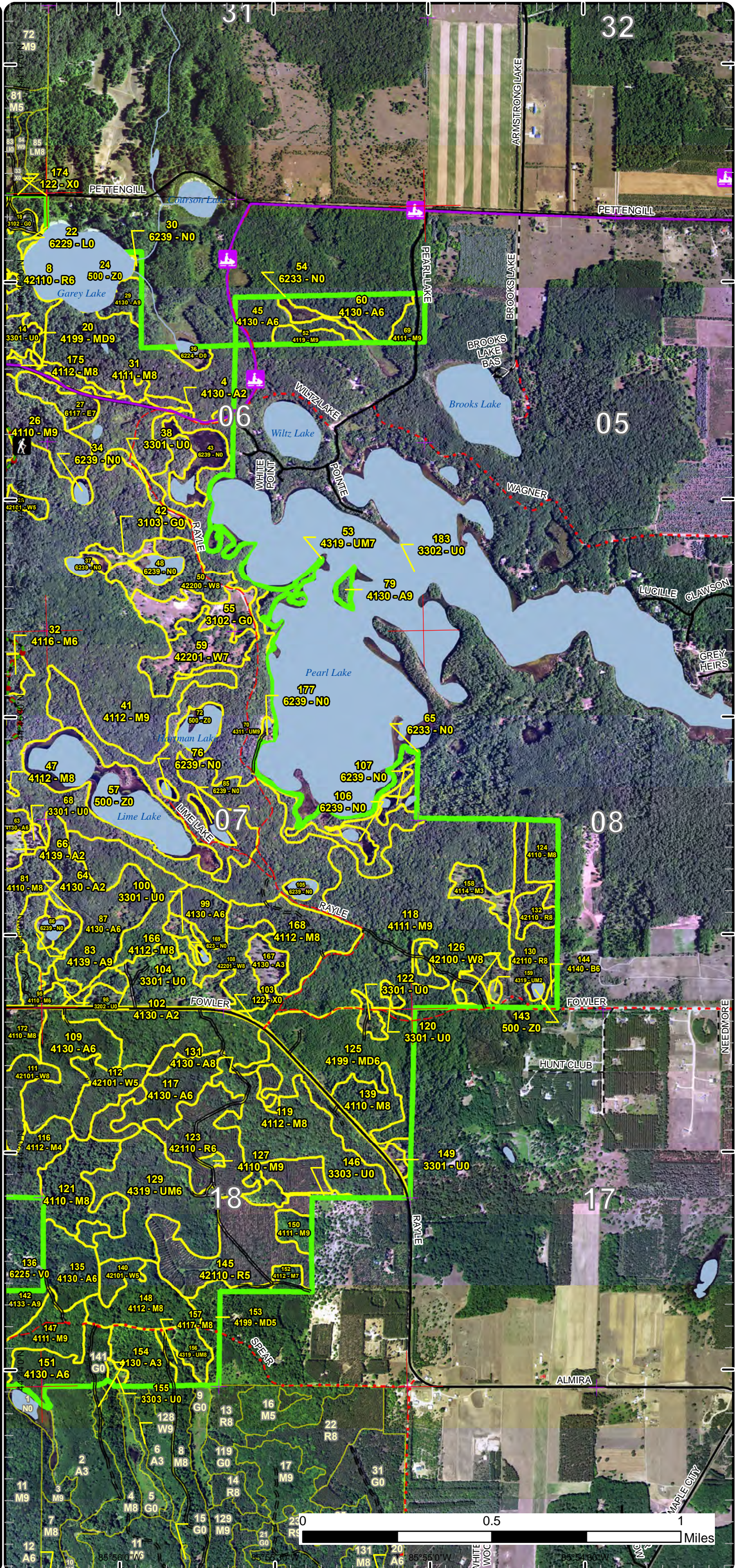


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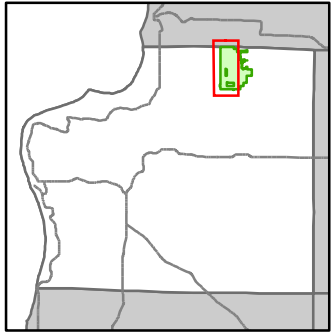


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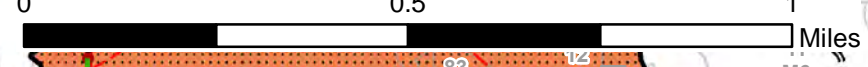
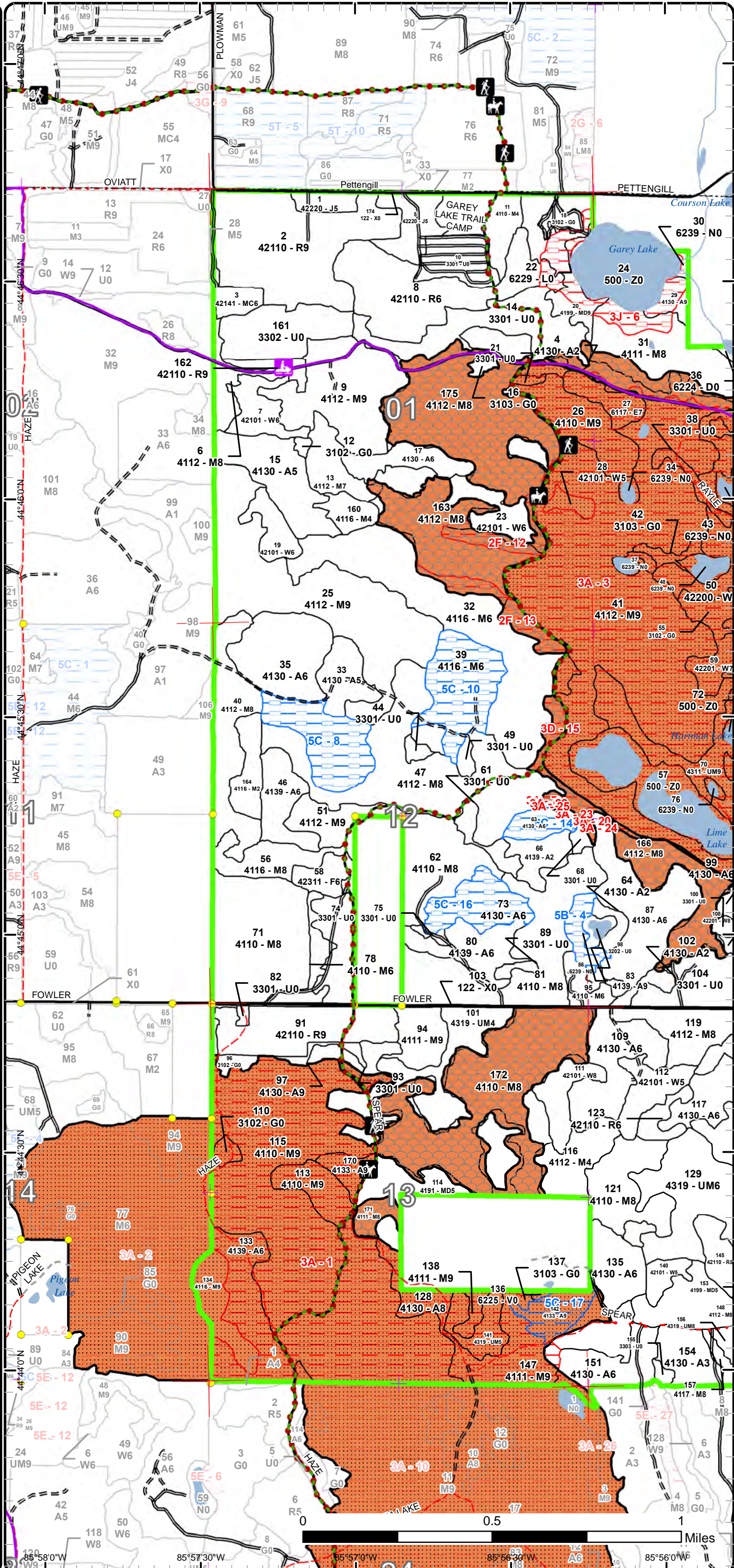


Special Conservation Areas

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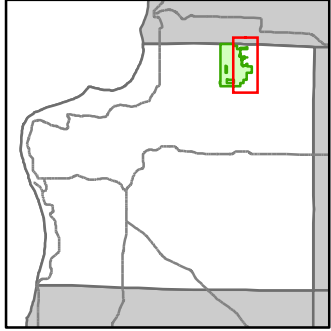
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- Compartment Boundary
- Available w/ Constraints
- 5B: Maintain for regeneration purposes
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Unavailable
- 2F: Too steep
- 3A: Conservation Values incompatible with harvest at this time
- 3D: Recreational / Scenic values
- 3J: Water quality / BMPs (stream, river, or lake)
- Stand Boundaries
- SCA
- SCA Removal
- Other Habitat Area



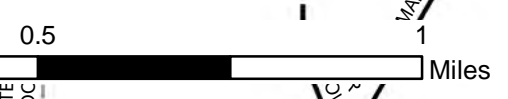
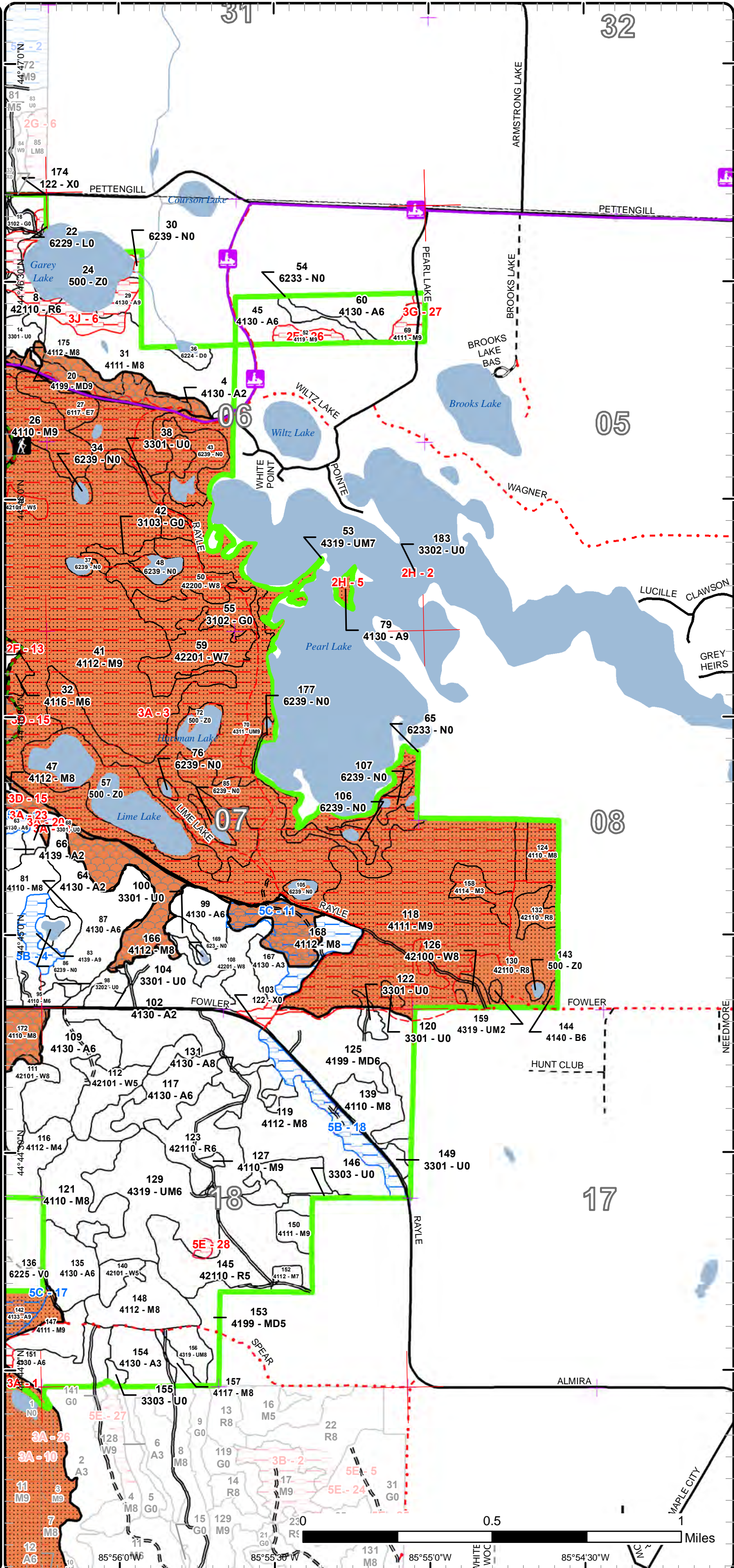
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- 5B: Maintain for regeneration purposes
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Unavailable
- 2F: Too steep
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 3A: Conservation Values incompatible with harvest at this time
- 3D: Recreational / Scenic values
- 3G: Other Influence zones - See comments
- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention
- Stand Boundaries
- SCA
- SCA Removal
- Other Habitat Area



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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	35	14	116	72	159	26	0	2	0	6	0	0	0	0	0	0	40	470
Bog	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Herbaceous Openland	32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	32
Jack Pine	0	0	0	0	0	5	13	0	0	0	0	0	0	0	0	0	0	0	18
Low-Density Trees	152	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	152
Lowland Deciduous	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	9
Lowland Shrub	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Marsh	52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	52
Mixed Upland Deciduous	0	0	10	0	42	0	22	0	0	0	0	0	0	0	0	0	0	16	90
Northern Hardwood	0	18	0	7	0	0	0	33	94	366	666	130	317	23	0	0	0	123	1777
Paper Birch	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
Planted Mixed Pines	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	6
Red Pine	0	0	0	0	0	0	55	162	67	0	0	0	0	0	0	0	0	0	284
Treed Bog	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Upland Mixed Forest	0	2	0	0	0	0	0	63	0	0	0	0	0	0	0	0	0	153	218
Upland Shrub	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Upland Spruce/Fir	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0	7
Urban	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
Water	74	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	74
White Pine	0	0	0	0	0	17	19	100	0	0	0	0	0	0	0	0	0	17	153
Total	330	55	24	123	114	188	135	358	164	366	672	130	317	23	0	0	0	364	3362



Report 2 – Treatment Summary

Traverse City Mgt. Unit
Year of Entry: 2024

Acres of Harvest

Compartment 4
Total Compartment Acres: 3,363

Commercial Harvest - 452
Harvests with Site Condition - 0
Next Step Harvest - 0
Habitat Cut - 0

Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Aspen	72	18	0	0	0	0	0	0	0	90
Jack Pine	6	0	0	0	0	0	0	0	0	6
Northern Hardwood	4	177	0	0	25	15	0	0	0	221
Red Pine	67	0	0	0	59	0	0	0	0	125
White Pine	0	0	0	0	9	0	0	0	0	9
Total	150	195	0	0	93	15	0	0	0	452

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	452	0	0	0	0	25	0	41	0	518
Next Step	0	13	73	0	0	191	443	0	0	720
Total	452	13	73	0	0	191	468	0	41	1238



Standard

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

5	61004002-9-New	6.4	42220 - Natural Jack Pine	Poletimber Medium	53		Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Clearcut west side of stand, leaving a buffer along the campground entrance road. No residuals. Specify chipping if possible, and specify <u>Specs:</u> low stumps to facilitate replanting.</p> <p><u>Next Step</u> SitePrep, Roller Chopping; Pesticide, Skidder - Site Prep; SitePrep, Trenching; Planting, Initial Plant; Pesticide, Skidder - Release; <u>Treatments:</u> Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)</p> <p><u>Acceptable</u> red pine <u>Regen:</u></p> <p><u>Other</u> Replant to red pine, along with stand 2 to the west. <u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											
2	61004002-Cut	66.7	42110 - Planted Red Pine	Sawtimber Well	76	141-170	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Clearcut. Leave some clumps or a strip along the north edge and along the border with stand 161 on the south. Specify chipping if possible, and specify low stumps to facilitate replanting. <u>Specs:</u></p> <p><u>Next Step</u> Pesticide, Aerial - Site Prep; Planting, Initial Plant; Pesticide, Aerial - Release; Monitoring, Artificial Regen(1yr); Monitoring, Artificial <u>Treatments:</u> Regen(3yr)</p> <p><u>Acceptable</u> red pine <u>Regen:</u></p> <p><u>Other</u> Replant to red pine, along with part of stand 5 to the east. Flat plant to avoid erosion issues on slope: year 1 after harvest idle; year 2 <u>Comment:</u> helicopter spray, year 3 plant, then 1 & 3 year regen checks. No trenching.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											
8	61004008-Cut	53.9	42110 - Planted Red Pine	Poletimber Well	55	201+	Harvest	Systematic Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Try cut 2/leave 4 pattern if possible, but just might have to mark swaths to cut, perpendicular to slope and avoiding eroded gullies. <u>Specs:</u></p> <p><u>Next Step</u> <u>Treatments:</u></p> <p><u>Acceptable</u> <u>Regen:</u></p> <p><u>Other</u> East end is in an SCA for riparian zone around Garey Lake; excluded from proposed sale area. Small patches of planted pine in adjacent <u>Comment:</u> stand 14 can be thinned as well.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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9	61004009-Cut	44.7	4112 - Maple, Beech, Cherry Association	Sawtimber Well	88	141-170	Harvest	Single Tree Selection	4112 - Maple, Beech, Cherry Association	Uneven-Aged	No
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Prescription Mark for selection, residual BA 90-100.

Specs:

Next Step Pesticide, Skidder - Release; Monitoring, Natural Regen (Intermediate)

Treatments:

Acceptable maples, cherry

Regen:

Other May need to deal with excessive beech regeneration post-harvest.

Comment:

Site Condition

Proposed Start Date: 10/1 /2023

14	61004014-NF	16.4	3301 - Low Density Deciduous Trees	Nonstocked		Immature	NonForestMgt	Other - Specify	3204 - Mast Producing Shrub		No
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Prescription Selectively hand fell woody encroachment to maintain upland brush/grassland community. Leave scattered mast producing trees and shrubs and/or conifers for wildlife food and cover. Could plant site appropriate native shrubs and/or mast producing trees for wildlife food and cover. Fertilize plantings and protect with wire cages or tubex.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other Maintain as a low density tree/shrubs for turkeys and other wildlife by mowing, native shrub planting, seeding of native grasses/forbs, burning, or removal of woody encroachment.

Comment: Stand is on the edge of a moraine hardwood complex.

Site Condition

Proposed Start Date: 10/1 /2023

19	61004019-Cut	9.4	42101 - Planted White Pine, Mixed Deciduous	Poetimber Well	65	141-170	Harvest	Low Thinning	42101 - Planted White Pine, Mixed Deciduous	Even-Aged	No
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Prescription Mark for thinning, residual BA about 100.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2023



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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
25 61004025-Cut	83.6	4112 - Maple, Beech, Cherry Association	Sawtimber Well	115	111-140	Harvest	Single Tree Selection	4112 - Maple, Beech, Cherry Association	Uneven-Aged	No
<p><u>Prescription</u> Mark for selection harvest, taking out most of the aspen and beech. Create some large regeneration gaps centered on aspen clones. <u>Specs:</u> Residual BA about 90.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u></p> <p><u>Acceptable Regen:</u> maples, cherry, aspen</p> <p><u>Other Comment:</u> Harvest will likely result in heavy flush of beech regeneration, but this is bound to occur anyway as mature beech succumbs to BBD.</p> <p><u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2023</p>										
35 61004035-Cut	29.4	4130 - Aspen	Poletimber Well	48		Harvest	Clearcut with Retention	4139 - Aspen, Mixed Deciduous	Even-Aged	No
<p><u>Prescription</u> Clearcut to a 2" diameter limit, retaining about 5% cover, including an uncut strip splitting the treatment into 2 parts, as well as a small retention island in each part. No chipping - leave slash on site. Create some CWD during harvest (2 trees/acre, min. 10" dbh). <u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u></p> <p><u>Acceptable Regen:</u> aspen, mixed hardwoods</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2023</p>										
39 61004039-Cut	3.2	4116 - Mixed N. Hardwood - Aspen	Poletimber Well	65	111-140	Harvest	Clearcut with Retention	4139 - Aspen, Mixed Deciduous	Even-Aged	No
<p><u>Prescription</u> Clearcut to a 2" diameter limit. Retain scattered clumps of hardwoods. Create some CWD during harvest: 1 or 2 whole down trees per acre, min. 10" dbh. <u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u></p> <p><u>Acceptable Regen:</u> aspen, mixed hardwoods</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2023</p>										
46 61004046-Cut	15.7	4139 - Aspen, Mixed Deciduous	Poletimber Well	48	Unspecified	Harvest	Clearcut with Retention	4130 - Aspen	Even-Aged	No
<p><u>Prescription</u> Clearcut to a 2" diameter limit. Retain scattered uncut islands totaling about 5% of the area. Create some CWD during harvest (2 trees/acre, min. 10" dbh). No chipping - leave slash on site. <u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u></p> <p><u>Acceptable Regen:</u> aspen, with some mixed hardwoods</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2023</p>										



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
51 61004051-Cut	10.7	4112 - Maple, Beech, Cherry Association	Sawtimber Well	95	111-140	Harvest	Crown Thinning	4112 - Maple, Beech, Cherry Association	Uneven-Aged	No
<p><u>Prescription</u> Mark for thinning, removing most of the beech and aspen. Residual BA 90-100. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> maple, cherry with some beech and aspen <u>Regen:</u> <u>Other</u> Don't bother with regeneration gaps, as they will only result in beech. <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2023</p>										
56 61004056-Cut	14.6	4116 - Mixed N. Hardwood - Aspen	Sawtimber Medium	95	81-110	Harvest	Overstory Removal	4116 - Mixed N. Hardwood - Aspen	Two-Aged	No
<p><u>Prescription</u> Remove most of the aspen and cherry, leaving most of the maple, though some will need to be removed for access and operability. Retain <u>Specs:</u> advanced maple regeneration as much as possible. <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> aspen, cherry, and some maple <u>Regen:</u> <u>Other</u> Omit east arm of the stand along the pathway. <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2023</p>										
71 61004071-Monitor	24.7	4110 - Sugar Maple Association	Sawtimber Medium	109	81-110	Monitoring	Natural Regen (Intermediate)	4110 - Sugar Maple Association	Uneven-Aged	No
<p><u>Prescription</u> monitor for regen <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> mixed hardwoods <u>Regen:</u> <u>Other</u> MSU research stand. May have had herbicide and scarification treatments. <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2023</p>										



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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80	61004080-Cut	17.6	4139 - Aspen, Mixed Deciduous	Poletimber Well	48	81-110	Harvest	Group Selection	4116 - Mixed N. Hardwood - Aspen	Uneven-Aged	No
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Prescription Take out most of the aspen and ironwood. Make some scattered large regeneration gaps centered on aspen clones; mark the rest for hardwood quality and spacing, protecting maple poles and saplings as possible.
Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)
Treatments:

Acceptable aspen in regen gaps; some mixed hardwoods
Regen:

Other Manage for uneven-aged hardwoods.
Comment:

Site Condition

Proposed Start Date: 10/1 /2023

94	61004094-Cut	12.5	4111 - S.Maple, Hard Mast Association	Sawtimber Well	90	141-170	Harvest	Single Tree Selection	4110 - Sugar Maple Association	Uneven-Aged	No
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Prescription Mark for selection, residual BA about 100. Focus on removing at-risk trees: beech, overmature aspen/basswood. Knock back beech regeneration as much as possible during harvest. Could make some large regen holes centered on aspen pockets.
Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)
Treatments:

Acceptable maple, basswood, cherry, some aspen; beech and ironwood likely but not desirable
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2023

97	61004097-Cut	6.8	4130 - Aspen	Sawtimber Well	54		Harvest	Clearcut with Retention	4139 - Aspen, Mixed Deciduous	Even-Aged	No
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Prescription Clearcut, retaining most or all of the hardwoods, white pine and a few scattered aspen. Create CWD during harvest.
Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)
Treatments:

Acceptable aspen, mixed hardwoods, white pine
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2023



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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
104 61004104-NF	24.3	3301 - Low Density Deciduous Trees	Nonstocked		Immature	NonForestMgt	Other - Specify	3204 - Mast Producing Shrub		No
<p><u>Prescription</u> Selectively hand fell woody encroachment to maintain upland brush/grassland community. Leave scattered mast producing trees and shrubs and/or conifers for wildlife food and cover. Could plant site appropriate native shrubs and/or mast producing trees for wildlife food and cover. Fertilize plantings and protect with wire cages or tubex.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u> Maintain as a low density tree/shrubs for turkeys and other wildlife by mowing, native shrub planting, seeding of native grasses/forbs, burning, or removal of woody encroachment. Stand is on the edge of a moraine hardwood complex. Focus this prescription on parts of the stand that are already semi open.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										
119 61004119-Cut	36.5	4112 - Maple, Beech, Cherry Association	Sawtimber Medium	92	81-110	Harvest	Single Tree Selection	4110 - Sugar Maple Association	Uneven-Aged	No
<p><u>Prescription</u> Mark for selection harvest, residual BA about 90. Create some regeneration gaps centered on aspen clones.</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 Regen:</u> mixed hardwoods in regeneration gaps</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										
131 61004131-Cut	3.4	4130 - Aspen	Sawtimber Medium	66	81-110	Harvest	Clearcut with Retention	4139 - Aspen, Mixed Deciduous	Even-Aged	No
<p><u>Prescription</u> Clearcut to a 2" diameter limit. Leave about 3% canopy cover of scattered mixed hardwoods.</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 Regen:</u> aspen and mixed hardwoods; some red pine volunteers also acceptable</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
134 61004134-Cut	14.2	4116 - Mixed N. Hardwood - Aspen	Sawtimber Well	79	111-140	Harvest	Crown Thinning	4112 - Maple, Beech, Cherry Association	Uneven-Aged	No
<p><u>Prescription</u> Remove most of the aspen, thin other species. Residual BA 80-90.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										
150 61004150-Cut	1.2	4111 - S.Maple, Hard Mast Association	Sawtimber Well	103	111-140	Harvest	Clearcut	4130 - Aspen	Even-Aged	No
<p><u>Prescription</u> Clearcut to a 2" diameter limit.</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, mixed hardwoods</p> <p><u>Regen:</u></p> <p><u>Other</u> Small cut unit, no retention needed.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										
151 61004151-Cut	17.1	4130 - Aspen	Poletimber Well	51		Harvest	Clearcut with Retention	4130 - Aspen	Even-Aged	No
<p><u>Prescription</u> Clearcut to a 2" diameter limit. Retain a +/- one-chain buffer along the wetland southwest of the stand, plus some scattered individual and small patches of hardwoods. Leave all mature beech as well for wildlife and to suppress resprouting.</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, mixed hardwoods</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										
162 61004162-Cut	4.6	42110 - Planted Red Pine	Sawtimber Well	65	171-200	Harvest	Low Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Mark for thinning, focusing removal on defective or suppressed trees. Residual BA about 120.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										



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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: 517.6

Report 4 – Site Conditions

Traverse City Mgt. Unit

Tim Webb : Examiner

Compartment: 4

Year of Entry: 2024

Availability for Management

Total Acres	Acres Available	Acres Avail		Acres Not Available	Dominant Site Conditions	Dominant Site Conditions									
		With Condition				5B	5C	2F	2G	2H	3A	3D	3G	3J	5E
469	330	86		53	Aspen	21	64	0		2	47	0	0	4	
1	1	0		0	Bog										
32	10	0		22	Herbaceous Openland						22			0	
18	18	0		0	Jack Pine										
147	143	0		4	Low-Density Trees					0	3	0		1	
9	0	0		9	Lowland Deciduous						9				
1	0	0		1	Lowland Shrub									1	
31	8	0		23	Marsh						22			1	
90	81	0		9	Mixed Upland Deciduous									9	
1771	1017	55		699	Northern Hardwood	0	55	23			654	11	5	7	
1	1	0		0	Paper Birch										
6	6	0		0	Planted Mixed Pines										
284	279	0		5	Red Pine						3			1	0
3	3	0		0	Treed Bog										
218	87	0		131	Upland Mixed Forest						130				1
2	2	0		0	Upland Shrub										
7	7	0		0	Upland Spruce/Fir										
12	12	0		0	Urban	0			0						
66	24	0		42	Water						42			0	
154	118	0		36	White Pine			0			36				
3,324	2,148	141		1,036	Total Forested Acres	22	119	23	0	2	969	11	5	24	1
	65%	4%		31%	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	3A: Conservation Values incompatible with harvest at this time	287	3D: Recreational / Scenic values	Unspecified	Unspecified	Unspecified
Comments:							
This is part of a multi-compartment SCA, to be managed as core habitat for species requiring mature, interior hardwood forest. Stands will continue to be managed using timber harvest, but with emphasis on habitat rather than timber production. Shore-to-Shore Trail runs through or along much of this SCA.							

Report 4 – Site Conditions

Traverse City Mgt. Unit

Tim Webb : Examiner

Compartment: 4

Year of Entry: 2024

2	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	0	3D: Recreational / Scenic values	3A: Conservation Values incompatible with harvest at this time	Unspecified	Unspecified
Comments: island in Pearl Lake							
3	Unavailable	3A: Conservation Values incompatible with harvest at this time	722	3D: Recreational / Scenic values	3B: Threatened, endangered, and special concern species	3J: Water quality / BMPs (stream, river, or lake)	Unspecified
Comments: Special Conservation Area managed primarily for non-timber values. Includes a stretch of the Shore to Shore Trail. Very hilly with numerous wetland pockets and frontage on three lakes. Timber harvest should be limited to serious forest health concerns or critical wildlife habitat management.							
4	Available	5B: Maintain for regeneration purposes	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Allow aspen overstory to die off naturally and release well-stocked hardwood understory.							
5	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	2	3D: Recreational / Scenic values	3A: Conservation Values incompatible with harvest at this time	Unspecified	Unspecified
Comments: island in Pearl Lake							
6	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	24	3D: Recreational / Scenic values	Unspecified	Unspecified	Unspecified
Comments: Garey Lake riparian area, state forest campground and boat access.							
7	Unavailable	3A: Conservation Values incompatible with harvest at this time	0	3D: Recreational / Scenic values	3B: Threatened, endangered, and special concern species	3J: Water quality / BMPs (stream, river, or lake)	Unspecified
Comments: Special Conservation Area managed primarily for non-timber values. Includes a stretch of the Shore to Shore Trail. Very hilly with numerous wetland pockets and frontage on three lakes. Timber harvest should be limited to serious forest health concerns or critical wildlife habitat management.							

Report 4 – Site Conditions

Traverse City Mgt. Unit

Tim Webb : Examiner

Compartment: 4

Year of Entry: 2024

8	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	27	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
9	Unavailable	3A: Conservation Values incompatible with harvest at this time	0	3D: Recreational / Scenic values	3B: Threatened, endangered, and special concern species	3J: Water quality / BMPs (stream, river, or lake)	Unspecified
Comments: Special Conservation Area managed primarily for non-timber values. Includes a stretch of the Shore to Shore Trail. Very hilly with numerous wetland pockets and frontage on three lakes. Timber harvest should be limited to serious forest health concerns or critical wildlife habitat management.							
10	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	30	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	25	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
12	Unavailable	2F: Too steep	8	3D: Recreational / Scenic values	Unspecified	Unspecified	Unspecified
Comments: along Shore-to-Shore Trail							
13	Unavailable	2F: Too steep	11	3D: Recreational / Scenic values	Unspecified	Unspecified	Unspecified
Comments: along Shore-to-Shore Trail							

Report 4 – Site Conditions

Traverse City Mgt. Unit

Tim Webb : Examiner

Compartment: 4

Year of Entry: 2024

14	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
15	Unavailable	3D: Recreational / Scenic values	11	2F: Too steep	Unspecified	Unspecified	Unspecified
Comments: narrow, irregular piece of stand, along Shore-to-Shore Trail							
16	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	19	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
17	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
18	Available	5B: Maintain for regeneration purposes	14	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Allow aspen overstory to die off naturally and release well-stocked hardwood understory.							
20	Unavailable	3A: Conservation Values incompatible with harvest at this time	0	3D: Recreational / Scenic values	3B: Threatened, endangered, and special concern species	3J: Water quality / BMPs (stream, river, or lake)	Unspecified
Comments: Special Conservation Area managed primarily for non-timber values. Includes a stretch of the Shore to Shore Trail. Very hilly with numerous wetland pockets and frontage on three lakes. Timber harvest should be limited to serious forest health concerns or critical wildlife habitat management.							

Report 4 – Site Conditions

Traverse City Mgt. Unit

Tim Webb : Examiner

Compartment: 4

Year of Entry: 2024

21	Unavailable	3A: Conservation Values incompatible with harvest at this time	0	3D: Recreational / Scenic values	3B: Threatened, endangered, and special concern species	3J: Water quality / BMPs (stream, river, or lake)	Unspecified
Comments: Special Conservation Area managed primarily for non-timber values. Includes a stretch of the Shore to Shore Trail. Very hilly with numerous wetland pockets and frontage on three lakes. Timber harvest should be limited to serious forest health concerns or critical wildlife habitat management.							
22	Unavailable	3A: Conservation Values incompatible with harvest at this time	0	3D: Recreational / Scenic values	3B: Threatened, endangered, and special concern species	3J: Water quality / BMPs (stream, river, or lake)	Unspecified
Comments: Special Conservation Area managed primarily for non-timber values. Includes a stretch of the Shore to Shore Trail. Very hilly with numerous wetland pockets and frontage on three lakes. Timber harvest should be limited to serious forest health concerns or critical wildlife habitat management.							
23	Unavailable	3A: Conservation Values incompatible with harvest at this time	0	3D: Recreational / Scenic values	3B: Threatened, endangered, and special concern species	3J: Water quality / BMPs (stream, river, or lake)	Unspecified
Comments: Special Conservation Area managed primarily for non-timber values. Includes a stretch of the Shore to Shore Trail. Very hilly with numerous wetland pockets and frontage on three lakes. Timber harvest should be limited to serious forest health concerns or critical wildlife habitat management.							
24	Unavailable	3A: Conservation Values incompatible with harvest at this time	0	3D: Recreational / Scenic values	3B: Threatened, endangered, and special concern species	3J: Water quality / BMPs (stream, river, or lake)	Unspecified
Comments: Special Conservation Area managed primarily for non-timber values. Includes a stretch of the Shore to Shore Trail. Very hilly with numerous wetland pockets and frontage on three lakes. Timber harvest should be limited to serious forest health concerns or critical wildlife habitat management.							
25	Unavailable	3A: Conservation Values incompatible with harvest at this time	0	3D: Recreational / Scenic values	3B: Threatened, endangered, and special concern species	3J: Water quality / BMPs (stream, river, or lake)	Unspecified
Comments: Special Conservation Area managed primarily for non-timber values. Includes a stretch of the Shore to Shore Trail. Very hilly with numerous wetland pockets and frontage on three lakes. Timber harvest should be limited to serious forest health concerns or critical wildlife habitat management.							

Report 4 – Site Conditions

26	Unavailable	2F: Too steep	5	2B: Unknown if access through adjacent landowner(s) is possible	Unspecified	Unspecified	Unspecified
<p>Comments: Small tract on a hillside with poor access, so is factor limited. Stand will self-thin as beech dies off from BBD.</p>							
27	Unavailable	3G: Other Influence zones - See comments	5	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: Stand is isolated from other state land, is a small tract, and is split by a paved road which leads to a nearby subdivision. Stand will self-thin as beech dies off.</p>							
28	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments:</p>							



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
61004041 Comments	Habitat Area	Other Habitat Area	SCA	762
61004041 Comments	Habitat Area	Other Habitat Area	SCA Removal	199
61004115 Comments	Habitat Area	Other Habitat Area	SCA Removal	96
Unspecified Comments	Habitat Area	Other Habitat Area	SCA	799

This proposal is for a multi-compartment SCA, to be managed as core habitat for species requiring mature, interior hardwood forest. Stands will continue to be managed using timber harvest, but with emphasis on habitat rather than timber production.

Mgt. Unit

Compartment:

Year of Entry



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
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																			
1	42220 - Natural Jack Pine	Poletimber Medium	5.3	40		N/A	Stand consists primarily of pines which seeded into an old field/orchard from adjacent plantations.																																																			
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2	42110 - Planted Red Pine	Sawtimber Well	66.7	76	141-170	N/A	Stand was thinned (except eroded slope area) in 2007, removing multi-stemmed red pine, and all of the jack pine. There are several open areas and younger re-planted patches within the stand where there were failures of the original planting. There are some old eroded gullies within the stand. 2012 SI trees: 10.6" 64', 9.3" 61', 11.5" 67', 14.4" 78'. Stand varies considerably in density, depending on original spacing of jack pine rows which were removed. If thinned, marking intensity will likewise have to vary. 2022 BAs: 200, 100, 120, 160, 150, 190, 130, 130, 150; mean 148. A couple small mortality patches observed, probably PBB.																																																			
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3	42141 - Planted Mixed Pine, Mixed Deciduous	Poletimber Well	6.4	43	51-80	N/A	Appears to be a replant of a failed plantation, plus volunteer pines and encroaching hardwoods. 2022 BAs: 150, 150, 60, 150, 70; mean 116.																																																			
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4	4130 - Aspen	Sapling Medium	10.0	5	Immature	N/A	Stand was clearcut in summer 2017, with scattered residual oak, yellow birch, maples. Consists of one larger strip and three smaller patch cuts, all along the snowmobile trail. 2022: Larger strip and west patch are moderately stocked, other patches poor.																																																			
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																															
6	4112 - Maple, Beech, Cherry Association	Sawtimber Medium	9.9	107	81-110	N/A	Stand includes some patches of planted white pine and a few red pine. Thinned June 2017. 2022 BAs: 110, 80, 120, 120; mean 108.																																															
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7	42101 - Planted White Pine, Mixed Deciduous	Poletimber Well	12.5	66	141-170	N/A	Thinned fall 2006. 2022 BAs: 180, 240, 80, 110, 160; mean 154.																																															
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8	42110 - Planted Red Pine	Poletimber Well	54.7	55	201+	N/A	2012 BA mean: 183; SI trees: 7.0" 46', 8.8" 52', 7.1" 42'. Evidence of past erosion. Some jack pine poles along west edge of stand. Dense, slow growing. 2022 BAs: 230, 180, 270, 240, 220, 210, 150; mean 214.																																															
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9	4112 - Maple, Beech, Cherry Association	Sawtimber Well	44.7	88	141-170	N/A	Stand was thinned in 2006. Good flush of beech and red maple seedlings as a result of thinning. Scattered understory hemlock. 2022 BAs: 150, 110, 140, 170; mean 143. RM regeneration is heavily browsed, but some grown past deer.																																															
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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11 4110 - Sugar Maple Association Poletimber Poor 17.7 57 1-50 N/A Old field reverting to forest.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Cherry	25	Pole/Sapling	6		Pines (spp.)	Low	Variable	Sapling
Red Maple	4	Pole	7		Juniper	Medium	< 5 feet	Tall Shrub
Jack Pine	8	Pole/Sapling	6					
Beech	1	Pole	7					
Red Pine	2	Pole/Sapling	6					
Sugar Maple	60	Pole/Sapling	6	57				

12 3102 - Grass Nonstocked 1.2 No

Sub-Canopy Species	Density	Avg. Height	Size
Blackberry/Raspberry	Trace	< 5 feet	Tall Shrub
Mixed Grasses	High		Non-Wood
Black Cherry	Trace	Variable	Sapling
Black Cherry	Trace	>20 feet	Pole

13 4112 - Maple, Beech, Cherry Association Sawtimber Poor 13.5 89 1-50 N/A

Was shelterwood cut in summer 2017, with some more open patches where formerly aspen dominated. Scattered white pine retained. 2022: regeneration is poor, mostly just beech, ironwood and scattered cherry stump sprouts; no aspen regeneration to speak of.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	65	Log/Pole	11	89	Ironwood	Low	< 5 feet	Seeding
Beech	5	Log	16		Beech	Medium	Variable	Sapling
Black Cherry	15	Log/Pole	12		White Pine	Trace	< 5 feet	Seeding
Sugar Maple	15	Log/Pole	10		Black Cherry	Trace	5 - 10 feet	Sapling
					Blackberry/Raspberry	Medium	< 5 feet	Tall Shrub

14 3301 - Low Density Deciduous Trees Nonstocked 33.0 Immature No Hilly stand. Scattered small blocks of planted red pine.

Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	Low	Variable	Sapling
Jack Pine	Trace	>20 feet	Pole
Autumn Olive	Trace	5 - 10 feet	Tall Shrub
Red Maple	Low	>20 feet	Pole
Red Maple	Trace	>20 feet	Log
Red Pine	Low	>20 feet	Pole
Sugar Maple	Low	Variable	Sapling
Black Cherry	Low	>20 feet	Pole
Jack Pine	Trace	Variable	Sapling

15 4130 - Aspen Poletimber Medium 27.0 25 Immature N/A

Regeneration is patchy, thick in places, but with open areas of failed regeneration, especially at the NW end of the stand.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Cherry	25	Sapling/Pole	4	25	Beech	Low	Variable	Sapling
Bigtooth Aspen	50	Pole/Sapling	5	25	Black Cherry	Medium	5 - 10 feet	Sapling
Quaking Aspen	25	Sapling/Pole	4	25	White Pine	Trace	Variable	Sapling
					Ironwood	Low	Variable	Sapling



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16	3103 - Rubus-Fern	Nonstocked	1.6		Immature	No	frost hole																																																																																	
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17	4130 - Aspen	Poletimber Well	12.3	25	Immature	N/A	East end is sparse, low quality.																																																																																	
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20	4199 - Other Mixed Upland Deciduous	Sawtimber Well	21.8	55	81-110	N/A	Heterogenous mix of trees on hills adjoining Garey Lake. Aspen is in scattered clones. Many of the large diameter white pine and sugar maple, as well as the black locust, were likely planted around an old farmstead. Scattered red oak, hemlock. Black locust is in a dense patch at the northwest end. 2022 BAs: 140, 170, 170, 100, 30, 120; mean 122.																																																																																	
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24	500 - Water	Nonstocked	22.8			No	Garey Lake																																																							
25	4112 - Maple, Beech, Cherry Association	Sawtimber Well	83.6	115	111-140	N/A	Thinned in 2006. 2022 BAs: 140, 90, 150, 110, 150, 110, 70, 170; mean 124. Any existing gaps are choked with beech saplings. Scattered yellow birch.																																																							
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26	4110 - Sugar Maple Association	Sawtimber Well	23.1	121	141-170	N/A	2012 comments: Regen holes created in a previous thinning are full of beech saplings. Many 18"+ trees are of low quality. Steep slopes. Small numbers of white ash, yellow birch, black cherry. 2022 BAs: 170, 120, 140; mean 143.																																																							
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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27 6117 - Lowland Deciduous, Mixed Coniferous Sawtimber Poor 9.2 87 51-80 N/A Small numbers of tamarack, black spruce, elm and cedar.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	55	Pole/Log/Sap	9	87	Leatherleaf	Low	< 5 feet	Tall Shrub
Yellow Birch	10	Pole/Sap/Log	7		Deciduous Saplings	Low	Variable	Sapling
White Pine	5	Log/Pole	12		Elderberry	Low	5 - 10 feet	Tall Shrub
Hemlock	30	Log/Pole	12		Hemlock	Low	Variable	Sapling
					Deciduous Shrubs	Low	Variable	Tall Shrub

28 42101 - Planted White Pine, Mixed Deciduous Poletimber Medium 7.3 65 111-140 N/A Thinned in summer 2017, except for the area surrounding a wetland inclusion in the south patch. 2022 BAs: 150, 70, 100, 140; mean 115. Some small mortality pockets.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	15	Log/Pole	11		White Pine	Low	Variable	Sapling
Black Cherry	10	Log/Pole/XLog	12		Beech	High	Variable	Sapling
Sugar Maple	5	Log/Pole/XLog	11					
White Pine	70	Pole/Log	9	65				

29 4130 - Aspen Sawtimber Well 5.5 96 N/A 2012 comments: Some mortality/blowdown in aspen, but relatively sound for its age. Small number of hemlock, white pine, beech and yellow birch canopy trees.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Oak	1	Log	12		Hemlock	Low	Variable	Sapling
Bigtooth Aspen	83	Log/XLog	16	96	Paper Birch	Low	>20 feet	Pole
Paper Birch	1	Pole	8		Northern White Cedar	Trace	>20 feet	Pole
Red Maple	15	Log/Pole	12		Red Maple	Medium	>20 feet	Pole
					Beech	Medium	Variable	Sapling
					Red Maple	Medium	Variable	Sapling
					Hemlock	Low	>20 feet	Pole

30 6239 - Mixed Emergent Wetland Nonstocked 1.0 No Stand is the ends of two drainages flowing into Garey Lake.

Sub-Canopy Species	Density	Avg. Height	Size
Mixes Sedges/Grasses	High		Non-Wood
Cattail spp.	Low		Non-Wood
Leatherleaf	Medium	< 5 feet	Tall Shrub
Elderberry	Medium	5 - 10 feet	Tall Shrub

31 4111 - S.Maple, Hard Mast Association Sawtimber Medium 50.2 106 81-110 N/A Rolling terrain. Stand has several small openings (regen. gaps from previous harvest) and wetland inclusions. Some paper birch, hemlock, and white pine. 2018 comments: much of the stand was selection harvested in summer 2017, excluding the steep slopes adjacent to the wetland in the northeast part of the stand, as well as a large area in the northwest buffering an eagle nest on Garey Lake. 2022 BAs: 90, 100, 80, 130, 90, 130; mean 103.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	3	Log	16		Beech	Full	Variable	Sapling
Sugar Maple	67	Log/Pole	13	106	Sugar Maple	Low	>20 feet	Sapling
Red Maple	5	Log	14		Ironwood	Medium	Variable	Sapling
Basswood	8	Log/Pole/XLog	15					
Beech	12	XLog/Log	20					
Red Oak	5	XLog	28					



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

32 4116 - Mixed N. Hardwood - Aspen Poletimber Well 79.4 72 81-110 N/A

Low quality timber, numerous multi-stemmed trees, but there are some decent maple poles in places. Some mortality/blowdown in aspen. There is a small patch of planted white spruce at the NW end of the stand. The stand generally follows a shallow valley which is probably a cold air sink that inhibits tree growth; trees are denser, better quality on hills and ridges. 2022 BAs: 110, 80, 120, 100, 100. 80, 110; mean 100.

Canopy Species					% Cover	Size Class	DBH	Age	Sub-Canopy Species				Density	Avg. Height	Size
Bigtooth Aspen					10	Log	14		Red Maple			Medium	Variable	Sapling	
Black Cherry					17	Log/Pole	12		Ironwood			Low	>20 feet	Pole	
White Spruce					2	Pole	6		Sugar Maple			Medium	Variable	Sapling	
Red Oak					1	Log/Pole	11		Beech			Low	Variable	Sapling	
Sugar Maple					15	Pole/Log	9		Ironwood			Medium	Variable	Sapling	
Red Maple					45	Pole/Log/Sap	9	72							
Quaking Aspen					10	Log/Pole	12	72							

33 4130 - Aspen Poletimber Medium 13.2 28 Immature N/A

Cherry has lots of black knot.

Canopy Species					% Cover	Size Class	DBH	Age	Sub-Canopy Species				Density	Avg. Height	Size
Quaking Aspen					10	Pole/Sapling	6	28	Black Cherry			High	Variable	Sapling	
Sugar Maple					1	Pole	7		Beech			Medium	5 - 10 feet	Sapling	
Red Maple					4	Pole/Sapling	6								
Black Cherry					35	Pole/Sapling	6	28							
Bigtooth Aspen					50	Pole/Sapling	6	28							

34 6239 - Mixed Emergent Wetland Nonstocked 2.0 No

35 4130 - Aspen Poletimber Well 57.4 48 N/A

Scattered older beech. Runs heavier to QA on lower slopes/valleys.

Canopy Species					% Cover	Size Class	DBH	Age	Sub-Canopy Species				Density	Avg. Height	Size
Bigtooth Aspen					45	Pole	8	48	Red Maple			Low	Variable	Sapling	
Black Cherry					15	Pole	8	48	Sugar Maple			High	Variable	Sapling	
Red Maple					15	Pole/Sapling	7		Serviceberry (Juneberry)			Trace	>20 feet	Sapling	
Sugar Maple					5	Pole/Sapling	6		Beech			Medium	Variable	Sapling	
Quaking Aspen					20	Pole	7	48							

36 6224 - Treed Bog Nonstocked 3.1 No

37 6239 - Mixed Emergent Wetland Nonstocked 3.0 No

Small pond surrounded by open, grassy shore.

Sub-Canopy Species	Density	Avg. Height	Size
Mixes Sedges/Grasses	Trace		Non-Wood



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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38 3301 - Low Density Deciduous Trees Nonstocked 5.0 Immature No old orchard

Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	Low	>20 feet	Pole
White Pine	Low	>20 feet	Log
Autumn Olive	Trace	5 - 10 feet	Tall Shrub
Apple (spp.)	Medium	10 - 20 feet	Pole
White Pine	Trace	Variable	Sapling
Sugar Maple	Low	Variable	Sapling
Common Or Ground Juniper	Trace	< 5 feet	Tall Shrub
Black Cherry	Low	>20 feet	Pole

39 4116 - Mixed N. Hardwood - Aspen Poletimber Well 33.2 65 111-140 N/A Stand has scattered older hardwoods including some big beech. 2022 BAs: 70, 120, 120, 150, 130; mean 118.

Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	40	Pole/Log	9	65
Red Maple	10	Log/Pole	12	
Beech	5	Log/Pole/XLog	16	
Red Oak	3	Log/Pole	10	
Bigtooth Aspen	35	Pole	8	48
Black Cherry	5	Log/Pole	12	
Ironwood	2	Pole/Sapling	7	

Sub-Canopy Species	Density	Avg. Height	Size
Beech	Medium	Variable	Sapling
Ironwood	Medium	Variable	Sapling
Sugar Maple	Medium	Variable	Sapling

40 4112 - Maple, Beech, Cherry Association Sawtimber Medium 31.2 80 51-80 N/A Scattered big, older hardwoods. Selection harvested in Dec. 2016 - Jan. 2017. 2022 BAs: 90, 70, 80, 50; mean about 70.

Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	60	Log/Pole	10	80
Beech	2	XLog/Log	22	
Black Cherry	8	Log	11	
Red Maple	30	Log/Pole	12	84

Sub-Canopy Species	Density	Avg. Height	Size
Beech	Medium	Variable	Sapling
Black Cherry	Low	Variable	Sapling
Sugar Maple	Low	>20 feet	Sapling
Beech	High	< 5 feet	Seeding

41 4112 - Maple, Beech, Cherry Association Sawtimber Well 286.2 98 111-140 N/A Paper birch is dying out. Aspen is in scattered clones, some mortality. Also some beech mortality. Scattered white pine and hemlock. Rolling terrain, numerous depressions, steep slopes in places. 2012 average BA from 20 plots = 143. 2022 BAs: 100, 90, 140, 80, 150, 80, 140, 130, 140, 140, 100, 120, 140, 120, 130; mean 120. Scattered pothole wetlands within stand. Any natural canopy gaps are full of beech saplings.

Canopy Species	% Cover	Size Class	DBH	Age
Red Oak	4	XLog/Log	18	
Beech	12	Log/Pole/XLog	16	
Paper Birch	1	Log/Pole	12	
Sugar Maple	50	Log/Pole	10	98
Bigtooth Aspen	6	Log/XLog	14	90
Red Maple	20	Log/Pole	13	90
Basswood	5	Log	14	
Black Cherry	2	Log/Pole	12	

Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	Medium	Variable	Sapling
Ironwood	Medium	Variable	Sapling
Beech	High	Variable	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																														
42	3103 - Rubus-Fern	Nonstocked	3.3		Immature	No																																															
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43	6239 - Mixed Emergent Wetland	Nonstocked	11.8		Immature	No	numerous snags																																														
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45	4130 - Aspen	Poletimber Well	12.7	36		N/A	Scattered beech, cherry, and paper birch. Small area of wetland in SW corner.																																														
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46	4139 - Aspen, Mixed Deciduous	Poletimber Well	15.7	48	Unspecified	N/A																																															
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47	4112 - Maple, Beech, Cherry Association	Sawtimber Medium	73.1	81	81-110	N/A	Stand was heavily thinned in 2006. A heavy flush of hardwood regeneration resulted from the thinning in open gaps: mostly beech, some cherry and ironwood, and aspen in patches. There are also some patches of fairly well developed sugar maple saplings. 2022 BAs: 110, 40, 120, 130, 140, 50, 90, 130; mean 101. Scattered mature aspen.																																																		
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48	6239 - Mixed Emergent Wetland	Nonstocked	4.7			No																																																			
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49	3301 - Low Density Deciduous Trees	Nonstocked	2.4		Immature	No																																																			
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50	42200 - Natural White Pine	Sawtimber Medium	16.9	49	81-110	N/A	Trees slowly reclaiming an old clearing. Pines are limby, open-grown, multi-stemmed. Hilly. 2022. BAs: 180, 80, 60; mean 107.																																																		
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51	4112 - Maple, Beech, Cherry Association	Sawtimber Well	13.8	95	111-140	N/A																																																			
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52	4119 - Mixed Northern Hardwoods	Sawtimber Well	4.6	113	111-140	N/A	Many large, hollow beech, some BBD mortality. 2022 BA about 130. Ash died off since last inventory.																																																							
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53	4319 - Mixed Upland Forest	Sawtimber Poor	5.4	103	1-50	N/A	Wooded peninsula in Pearl Lake with open shoreline. Small patches of phragmites noted in 2012. Now mainly flood-killed trees except on ridge.																																																							
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54	6233 - Wet Meadow	Nonstocked	3.9			No																																																								
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55	3102 - Grass	Nonstocked	16.1			No	Hilly opening. ORV abuse. Bittersweet?? Old foundation in the NE end of the stand surrounded by walnut trees & lilacs. Two small ponds in SE part of stand.																																																							
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56	4116 - Mixed N. Hardwood - Aspen	Sawtimber Medium	16.4	95	81-110	N/A	Stand consists of old, open-grown cherry with patches of quaking aspen. Much of the stand has a good stocking of understory and emerging sugar maple saplings and poles. There are several small openings. Most of the stand is low-lying and frost-prone.																																																							
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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57 500 - Water Nonstocked 42.3 No Lime Lake. SE end is inundated shrub swamp.

Sub-Canopy Species	Density	Avg. Height	Size
Willow spp.	Trace	5 - 10 feet	Sapling
Phragmites (spp.)	Trace	Unspecified	Non-Wood

58 42311 - Planted Spruce, Mixed Deciduous Poletimber Well 7.1 47 111-140 N/A Thick, young sugar maples in small canopy gaps. Scattered juneberry. 2022 BA about 120.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	5	Pole/Log	8		White Spruce	Low	Variable	Sapling
White Spruce	70	Pole/Sap/Log	8	47	Sugar Maple	Medium	Variable	Sapling
Black Cherry	15	Log/Pole	12					
Sugar Maple	10	Sapling/Pole	3					

59 42201 - Natural White Pine, Mixed Deciduous Sawtimber Poor 19.4 57 1-50 N/A Trees slowly reclaiming an old clearing. Pines are limby, open-grown. Hilly.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Oak	10	Log/Pole	12		White Pine	Low	Variable	Sapling
White Pine	70	Log/Pole	12	57	Deciduous Saplings	Low	Variable	Sapling
Black Cherry	20	Log/Pole	12		Juniper	Medium	< 5 feet	Tall Shrub

60 4130 - Aspen Poletimber Well 13.9 36 N/A Scattered red maple, basswood, ash.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Ironwood	3	Pole/Sapling	5		Ironwood	High	Variable	Sapling
Red Oak	15	XLog/Log/Pole	20		Sugar Maple	Medium	Variable	Sapling
Sugar Maple	10	Pole/Log/Sap	8					
Bigtooth Aspen	62	Pole	7	36				
Quaking Aspen	5	Pole	7	36				
Black Cherry	2	Pole	6					
White Pine	3	XLog/Log	20					

61 3301 - Low Density Deciduous Trees Nonstocked 6.2 Immature No Trees are mostly black cherry and sugar maple with some red maple, aspen, and beech.

Sub-Canopy Species	Density	Avg. Height	Size
Autumn Olive	Trace	5 - 10 feet	Tall Shrub
Deciduous Saplings	Low	Variable	Sapling
White Pine	Trace	>20 feet	Pole
Common Or Ground Juniper	Trace	< 5 feet	Tall Shrub
Quaking Aspen	Low	>20 feet	Pole
Red Pine	Trace	Variable	Sapling
Sugar Maple	Low	Variable	Sapling
Blackberry/Raspberry	Low	< 5 feet	Tall Shrub
Sugar Maple	Trace	>20 feet	Log
Black Cherry	Medium	>20 feet	Pole
Ironwood	Low	Variable	Sapling



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

62 4110 - Sugar Maple Association Sawtimber Medium 28.1 99 51-80 N/A Selection harvest in Jan. 2017. 2022 BAs: 80, 90, 90, 60, 80; mean 80. Small area of planted red pine along property line. Good quality maple.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	90	Log/Pole	11	99	Sugar Maple	Low	>20 feet	Sapling
Black Cherry	4	Log	14		Beech	Medium	Variable	Sapling
Red Pine	1	Log	11		Ironwood	Low	Variable	Sapling
Beech	5	Log/Pole/XLog	17		Blackberry/Raspberry	Medium	< 5 feet	Tall Shrub
					Beech	High	< 5 feet	Seeding

63 4130 - Aspen Poletimber Well 8.0 48 N/A Good quality aspen.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	5	Log/Pole	10		Beech	Medium	Variable	Sapling
Black Cherry	3	Pole/Log	8		Sugar Maple	Low	Variable	Sapling
Beech	2	Log/Pole	12					
Sugar Maple	10	Log/Pole	10					
Bigtooth Aspen	80	Pole/Log	9	48				

64 4130 - Aspen Sapling Medium 4.0 5 Immature N/A Stand is situated on slopes surrounding a wetland depression. Clearcut in fall 2017. Retention = scattered residual red maple, white pine, oak and cherry, plus a narrow belt left along the wetland edge.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	10	Log/Pole	12		Autumn Olive	Trace	5 - 10 feet	Tall Shrub
Black Cherry	5	Pole/Log	8		White Pine	Trace	Variable	Sapling
Bigtooth Aspen	75	Sapling	1	5	Beech	Trace	Variable	Sapling
Red Oak	5	Pole	8					
Red Maple	5	Pole/Sapling	7					

65 6233 - Wet Meadow Nonstocked 7.5 No flood killed timber along inundated Pearl Lake shoreline

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Low	>20 feet	Pole

66 4139 - Aspen, Mixed Deciduous Sapling Medium 10.1 6 Immature N/A Clearcut with residual mixed hardwoods Jan. 2016.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	15	Sapling	1	6	Ironwood	Low	< 5 feet	Seeding
Black Cherry	35	Sapling	2	6	Beech	Low	5 - 10 feet	Sapling
Ironwood	5	Sapling	1					
Red Oak	3	Pole	8					
Black Cherry	2	Log	10					
Quaking Aspen	35	Sapling	1	6				
Beech	5	Sapling	1					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																	
68	3301 - Low Density Deciduous Trees	Nonstocked	2.0		Immature	No																																																																		
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69	4111 - S.Maple, Hard Mast Association	Sawtimber Well	5.1	117	81-110	N/A																																																																		
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70	4311 - Pine, Aspen Mix	Sawtimber Well	113.4	102	81-110	N/A	Stand is on steep slopes adjacent to Pearl Lake, Hartman Lake, Lime Lake and several wetlands. Part of this stand north of Hartman Lake showed 1901 year of origin for white pine in OI. 2022 BAs: 150, 30, 170, 200, 110; mean 132. Mortality in birch.																																																																	
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71	4110 - Sugar Maple Association	Sawtimber Medium	51.5	109	81-110	N/A	Good quality timber. A 30 acre block within the stand was harvested via group selection, with cut patch circles ranging from .25 to 1 acre in size. Trees were whole-tree harvested and chipped. To be followed by herbicide application and mechanical scarification. Currently no regeneration in gaps.																																																																	
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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73 4130 - Aspen Poletimber Well 18.5 48 N/A Scattered red maple and red oak.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	5	Log/Pole	10		Ironwood	Medium	>20 feet	Sapling
Beech	7	Log/Pole	12		Beech	Low	Variable	Sapling
Bigtooth Aspen	84	Pole/Log	9	48	Sugar Maple	High	Variable	Sapling
Black Cherry	4	Pole	8	48				

74 3301 - Low Density Deciduous Trees Nonstocked 16.1 Immature No Sugar maple saplings are in patches surrounding many of the open-grown black cherry trees.

Sub-Canopy Species	Density	Avg. Height	Size
Autumn Olive	Trace	5 - 10 feet	Tall Shrub
White Spruce	Trace	Variable	Sapling
Sugar Maple	Medium	Variable	Sapling
Black Cherry	Low	>20 feet	Pole
Apple (spp.)	Trace	10 - 20 feet	Pole
Red Pine	Trace	Variable	Sapling
Scotch Pine	Trace	>20 feet	Pole
Common Or Ground Juniper	Low	< 5 feet	Tall Shrub
Red Pine	Trace	>20 feet	Pole
Common Lilac	Trace	5 - 10 feet	Tall Shrub

75 3301 - Low Density Deciduous Trees Nonstocked 1.4 Immature No Southeast end is wide open - past timber landing. Northwest end has more tree cover.

Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	Trace	>20 feet	Pole
Sugar Maple	Trace	>20 feet	Pole
Sugar Maple	Low	Variable	Sapling
Black Cherry	Medium	>20 feet	Pole
Red Pine	Trace	10 - 20 feet	Sapling
Beech	Trace	Variable	Sapling
Blackberry/Raspberry	Low	< 5 feet	Tall Shrub

76 6239 - Mixed Emergent Wetland Nonstocked 1.2 No Surrounded by flood-killed white pine.

78 4110 - Sugar Maple Association Poletimber Well 8.4 60 51-80 N/A One aspen clone in SW part of stand.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	2	Pole	7		Sugar Maple	Full	Variable	Sapling
Sugar Maple	80	Pole/Sap/Log	6	60	Red Pine	Low	Variable	Sapling
Red Pine	3	Pole	6		Beech	Low	5 - 10 feet	Sapling
Black Cherry	15	Pole/Log	8					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																													
79	4130 - Aspen	Sawtimber Well	2.1	70		N/A	Wooded island in Pearl Lake with some open shoreline. Grasses, sedges, reeds, and some cedar seedlings cover the open shore areas. There is one big, old cottonwood on the island. Note: not visited/updated in 2022.																																													
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80	4139 - Aspen, Mixed Deciduous	Poletimber Well	17.6	48	81-110	N/A	2012 notes: There are scattered individuals/clumps of older aspen and hardwoods along with the pole-sized age class which resulted from a 1974 cut. Stand is succeeding to hardwoods.																																													
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81	4110 - Sugar Maple Association	Sawtimber Medium	54.1	99	81-110	N/A	Stand was thinned in 2006, resulting in a heavy flush of rubus and beech in canopy gaps. Aspen is in scattered clones. 2022 BAs: 80, 100, 130, 90, 100, 140; mean 107. High quality sugar maple. Scattered red maple and red oak.																																													
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83	4139 - Aspen, Mixed Deciduous	Sawtimber Well	7.4	90	111-140	N/A	Stand is situated on slopes surrounding a depression. Fair amount of mortality in the aspen. Stand is succeeding to hardwoods. Scattered white pine, beech and cherry.																																													
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
85	6239 - Mixed Emergent Wetland	Nonstocked	3.0			No	(2012 notes: Forbs, grasses, raspberries. and tree seedlings on exposed edges of wetland.)
86	6239 - Mixed Emergent Wetland	Nonstocked	3.2			No	pond with open upland fringe
		Sub-Canopy Species		Density	Avg. Height	Size	
		Common Or Ground Juniper		Trace	< 5 feet	Tall Shrub	
		Autumn Olive		Trace	5 - 10 feet	Tall Shrub	
87	4130 - Aspen	Poletimber Well	37.6	27	Immature	N/A	Stand has several small openings and scattered patches of remnant oak.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Bigtooth Aspen		80	Pole/Sapling	5	27	Black Cherry	
Red Maple		5	Pole/Sapling	5	27	Ironwood	
Red Oak		3	Log/Pole	12		Beech	
Black Cherry		10	Pole/Sapling	5	27		
Quaking Aspen		2	Sapling/Pole	4	27		
89	3301 - Low Density Deciduous Trees	Nonstocked	1.9		Immature	No	
Sub-Canopy Species		Density	Avg. Height	Size			
Black Cherry		Low	Variable	Sapling			
Blackberry/Raspberry		Trace	< 5 feet	Tall Shrub			
Pines (spp.)		Trace	Variable	Sapling			
Common Or Ground Juniper		Low	< 5 feet	Tall Shrub			
Sugar Maple		Low	Variable	Sapling			
Black Cherry		Medium	>20 feet	Pole			
Red Oak		Trace	>20 feet	Log			
91	42110 - Planted Red Pine	Sawtimber Well	32.8	65	111-140	N/A	(2012 comments: Hardwood regen. is thick in places; mostly beech with some sugar maple, cherry, ironwood, and ash. Narrow strip of deciduous trees along Fowler Rd. SI trees: 10.3" 74', 10.0" 68', 10.0" 78') Thinned in fall 2016; understory hardwood saplings greatly reduced. 2022 BAs: 140, 130, 130, 140, 110; mean 130. Beech regen has rebounded. Good quality red pine.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Pine		95	Log/Pole	11	65	Beech	
Sugar Maple		2	Pole/Sap/Log	7			
Black Cherry		3	Pole/Log	9			
93	3301 - Low Density Deciduous Trees	Nonstocked	2.7		Immature	No	Opening is succeeding to forest cover, mostly sugar maple, red pine and black cherry.
Sub-Canopy Species		Density	Avg. Height	Size			
Sugar Maple		Medium	Variable	Sapling			
Red Pine		Low	Variable	Sapling			
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94	4111 - S.Maple, Hard Mast Association	Sawtimber Well	12.5	90	141-170	N/A	There are old beech monitoring plots in the stand. Aspen is dying out, some BBD mortality. Scattered black cherry. 2022 BAs: 110, 160, 160, 180; mean 152.																																															
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95	4110 - Sugar Maple Association	Poletimber Well	6.6	54	81-110	N/A	2-storied stand: sparse, older hardwoods, mostly cherry, with advanced sugar maple regeneration. Scattered aspen and juneberry. 2022 BAs: 60, 110, 90; mean 87.																																															
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96	3102 - Grass	Nonstocked	2.5		Immature	No	low, frost-prone																																															
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97	4130 - Aspen	Sawtimber Well	6.8	54		N/A	Excellent growth in aspen. Patch of WP at northeast end of the stand.																																															
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98	3202 - Autumn Olive/Honeysuckle	Nonstocked	2.5		Immature	Managed Opening	Filling in with sugar maple and ironwood.																																															
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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99 4130 - Aspen Poletimber Well 10.2 27 Immature N/A Scattered white pine saplings and poles.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Oak	3	Pole/Log	8		Black Cherry	High	Variable	Sapling
Bigtooth Aspen	94	Pole/Sapling	5	27	Ironwood	Low	Variable	Sapling
Black Cherry	3	Pole/Sapling	5	27	Beech	Low	Variable	Sapling

100 3301 - Low Density Deciduous Trees Nonstocked 3.0 No

Sub-Canopy Species	Density	Avg. Height	Size
White Pine	Low	Variable	Sapling
Black Cherry	Low	>20 feet	Pole
Common Or Ground Juniper	Low	< 5 feet	Tall Shrub
Quaking Aspen	Low	>20 feet	Pole
Red Oak	Low	>20 feet	Pole
White Pine	Low	>20 feet	Log

101 4319 - Mixed Upland Forest Poletimber Poor 34.2 88 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	1	Pole	8		Blackberry/Raspberry	Full	< 5 feet	Tall Shrub
White Pine	45	Pole/Log	9	60	Ironwood	Low	Variable	Sapling
Basswood	1	Log	14		Deciduous Saplings	Trace	5 - 10 feet	Sapling
Black Cherry	2	Log/Pole	12		Bigtooth Aspen	Medium	5 - 10 feet	Sapling
Sugar Maple	50	Pole/Log	9	88	Sugar Maple	Low	>20 feet	Sapling
American Elm	1	Pole	8		Beech	Low	Variable	Sapling
					White Pine	Trace	< 5 feet	Seeding

Stand was dense blocks of plantation white pine in low areas with intervening patches of aspen & hardwoods. Shelterwood cut in 2017, retaining some WP, hardwood poles, and selected mature hardwoods. Expected to fill in with mixed pine, hardwoods, and aspen. 2022: good aspen regeneration in patches, otherwise mixed beech, ironwood, sugar maple,, cherry, and a few ash.

102 4130 - Aspen Sapling Medium 3.7 5 Immature N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	5	Log	12		White Pine	Trace	< 5 feet	Seeding
Sugar Maple	2	Sapling	1					
Bigtooth Aspen	60	Sapling	1	5				
Ironwood	3	Sapling	1					
White Pine	5	Sapling	2					
Black Cherry	15	Sapling	1	5				
Red Maple	3	Pole	8					
Beech	5	Sapling	1					
Black Cherry	2	Log	12					

Clearcut in summer 2017. Scattered leave trees: mixed deciduous and white pine, plus some advanced maple and white pine regeneration retained during harvest. Good initial flush of aspen regeneration, but many stems are broken or browsed.

103 122 - Road/Parking Lot Nonstocked 9.6 No Fowler & Rayle Rds.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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104 3301 - Low Density Deciduous Trees Nonstocked 24.3 Immature No Old field filling in with hardwoods and pine. West end has some planted autumn olive, hawthorn and spruce. Deciduous trees are mainly black cherry and sugar maple with scattered oak, beech and quaking aspen. Denser hardwood patch on small hill in the middle of the stand was thinned heavily in late summer 2017.

Sub-Canopy Species	Density	Avg. Height	Size
Common Or Ground Juniper	Low	< 5 feet	Tall Shrub
Sugar Maple	Low	Variable	Sapling
Deciduous Saplings	Low	Variable	Sapling
Aspen (spp.)	Low	>20 feet	Sapling
Bracken Fern	High		Non-Wood
White Spruce	Trace	>20 feet	Pole
Red Oak	Low	>20 feet	Log
White Pine	Low	>20 feet	Log
Beech	Low	>20 feet	Log
Blackberry/Raspberry	Low	< 5 feet	Tall Shrub
Sugar Maple	Low	>20 feet	Log
Autumn Olive	Low	5 - 10 feet	Tall Shrub
Black Cherry	Low	>20 feet	Pole
White Pine	Low	Variable	Sapling

105 6239 - Mixed Emergent Wetland Nonstocked 2.3 Immature No

Sub-Canopy Species	Density	Avg. Height	Size
Phragmites (spp.)	Trace		Non-Wood
Mixes Sedges/Grasses	Low		Non-Wood

106 6239 - Mixed Emergent Wetland Nonstocked 3.2 Immature No

107 6239 - Mixed Emergent Wetland Nonstocked 3.0 Immature No

Sub-Canopy Species	Density	Avg. Height	Size
Deciduous Saplings	Trace	Variable	Sapling

108 42201 - Natural White Pine, Mixed Deciduous Sawtimber Medium 17.2 57 81-110 N/A Thinned Dec. 2015. 2022 BAs: 60, 110, 150, 90, 90, 70, 60; mean 90. There are a few big, old veteran white pines in the stand.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	10	Log/Pole/XLog	12	
Sugar Maple	6	Pole/Log	8	
Quaking Aspen	3	Log/Pole	11	52
Bigtooth Aspen	3	Log/Pole	12	70
Red Oak	3	Log/Pole	12	
White Pine	60	Log/Pole/XLog	12	57
Black Cherry	15	Log/Pole	13	

Sub-Canopy Species	Density	Avg. Height	Size
Ironwood	Low	Variable	Sapling
White Pine	Medium	Variable	Sapling
Beech	Medium	Variable	Sapling
White Pine	Low	>20 feet	Pole
Sugar Maple	Low	Variable	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																				
109	4130 - Aspen	Poletimber Well	27.2	38		N/A																																																					
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110	3102 - Grass	Nonstocked	2.6			No																																																					
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111	42101 - Planted White Pine, Mixed Deciduous	Sawtimber Medium	24.9	60	81-110	N/A	NE part of west part of stand has a 1-2 acre hardwood inclusion. Scattered elm. Row thinned 2017, most of the aspen removed at that time. 2022 BAs: 110, 100, 150, 80; mean 110.																																																				
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112	42101 - Planted White Pine, Mixed Deciduous	Poletimber Medium	13.4	64	111-140	N/A	Occasional row of red pine; scattered red maple, elm, and ironwood. Some mortality in aspen. Thinned in Dec. 2018. 2022 BAs: 90, 150, 110, 150, 180; mean 136.																																																				
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113	4110 - Sugar Maple Association	Sawtimber Well	12.7	111	111-140	N/A	Similar to surrounding hardwood stand, but somewhat older and larger diameters. 2022 BAs: 130, 140, 90, 130; mean 122.																																																				
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Stand **Level 4 Cover Type** **Size Density** **Acres** **Stand Age** **BA Range** **Managed Site** **General Comments**

114 4191 - Mixed Upland Deciduous with Conifer Poletimber Medium 16.4 60 51-80 N/A Blocks of planted white pine mixed with hardwoods. Low quality cherry. Thinned in 2017. Good distribution of aspen regeneration pockets and advanced maple saplings.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	40	Pole/Log	9	60	White Pine	Trace	< 5 feet	Seeding
Sugar Maple	33	Pole/Sap/Log	7		Ironwood	High	Variable	Seeding
Black Cherry	15	Log/Pole/XLog	14		Bigtooth Aspen	Medium	10 - 20 feet	Sapling
American Elm	1	Pole	8		Beech	Medium	Variable	Sapling
Red Maple	8	Log/Pole	12		Sugar Maple	Medium	Variable	Sapling
Bigtooth Aspen	2	Log/Pole	10	70	Blackberry/Raspberry	Medium	< 5 feet	Tall Shrub
Ironwood	1	Pole	6					

115 4110 - Sugar Maple Association Sawtimber Well 187.9 88 111-140 N/A 2012: 22 BAs taken, mean = 140. Scattered yellow birch, elm. Beech and bigtooth aspen have a patchy distribution. 2022 BAs: 110, 110, 100, 180, 130, 150, 150, 110, 130, 120; mean 129. Fair amount of blowdown (mostly ash).

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Cherry	2	Log	16		Ironwood	Medium	< 5 feet	Seeding
Bigtooth Aspen	5	Log/Pole/XLog	14		Beech	Medium	Variable	Sapling
Beech	3	XLog/Log/Pole	18		Sugar Maple	Medium	>20 feet	Sapling
Basswood	20	Log/Pole/XLog	14		Ironwood	Medium	Variable	Sapling
Red Maple	2	Log	15					
Sugar Maple	68	Log/Pole/XLog	12	88				

116 4112 - Maple, Beech, Cherry Association Poletimber Poor 17.2 88 51-80 N/A Scattered large, old sugar maple and white pine. Shelterwood cut in 2017. 2022 BA about 70.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Cherry	15	Log	14		Ironwood	High	< 5 feet	Seeding
Bigtooth Aspen	1	Log/Pole	12	70	Ironwood	Low	Variable	Sapling
Sugar Maple	50	Pole/Log/Sap	7	88	Beech	Medium	Variable	Sapling
Beech	1	Log	16		Sugar Maple	Medium	Variable	Sapling
Red Maple	20	Pole	8					
White Pine	13	Log/Pole/XLog	12					

117 4130 - Aspen Poletimber Well 17.7 38 N/A Stand has two inclusions of planted white pine.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	10	Pole	8	38	Ironwood	High	Variable	Sapling
Bigtooth Aspen	57	Pole/Log	8	38	Sugar Maple	Medium	Variable	Sapling
Red Maple	5	Pole	8					
Black Cherry	10	Pole/Sapling	7					
Ironwood	4	Pole/Sapling	6					
White Pine	8	Log/Pole	12	54				
Sugar Maple	6	Pole/Sap/Log	7					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																									
118	4111 - S.Maple, Hard Mast Association	Sawtimber Well	124.7	114	81-110	N/A	Stand has a few scattered regeneration patches. 2012 BA about 115. Small numbers of paper birch, hemlock, elm. Good number of snags and cavity trees. 2022 BAs: 160, 160, 110, 130, 70, 70, 80, 90; mean 109. Some beech mortality.																																																																									
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119	4112 - Maple, Beech, Cherry Association	Sawtimber Medium	77.9	92	81-110	N/A	(2011 comments: Variable stocking, age, and species mix. Scattered patches of planted white pine; some ash, elm, and hemlock. 12 BAs taken, mean = 123.) Southeast part of the stand was select harvested in fall 2016, including some patch clearcuts around aspen clones. Northwest part of the stand was excluded from that sale. 2022 BAs: NW: 160, 70, 160, 100, 60, 160; mean 118; SE: 110, 60, 100, 120, 130, 60; mean 97. Understory heavy to ironwood, beech and raspberry in harvested area.																																																																									
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120	3301 - Low Density Deciduous Trees	Nonstocked	1.5			No	Stand is in a frost-prone depression.																																																																									
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121	4110 - Sugar Maple Association	Sawtimber Medium	25.2	113	81-110	N/A	(2012 notes: Stand was thinned in 2004. Good cherry regeneration in gaps.) 2022 BA about 90. Initial flush of chery is gone, overcome by beech and ironwood.																																																																									
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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122 3301 - Low Density Deciduous Trees Nonstocked 3.4 Immature No

Sub-Canopy Species	Density	Avg. Height	Size
Blackberry/Raspberry	Trace	< 5 feet	Tall Shrub
Spotted Knapweed	Medium		Non-Wood
Black Cherry	Low	Variable	Sapling
White Pine	Low	Variable	Sapling
Common Or Ground Juniper	Low	< 5 feet	Tall Shrub
Sugar Maple	Trace	>20 feet	Pole
Mixed Grasses	Full		Non-Wood
Black Cherry	Medium	>20 feet	Pole

123 42110 - Planted Red Pine Poletimber Well 50.9 60 141-170 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Black Cherry	5	Log	12	
Red Maple	2	Log/Pole	10	
Quaking Aspen	2	Log/Pole	11	
Bigtooth Aspen	2	Pole/Log	9	
Red Pine	86	Pole/Log	9	60
Sugar Maple	3	Log	14	

Sub-Canopy Species	Density	Avg. Height	Size
Beech	High	Variable	Sapling
Sugar Maple	Low	5 - 10 feet	Sapling
White Pine	Trace	< 5 feet	Seeding

Stand was 3rd-row thinned in 2005. 2012 mean BA 132. Some damage from 3/2/2012 snowstorm, mostly just top 10 feet or so of some trees snapped off. Dense sugar maple regen in scattered patches, otherwise mostly beech understorey. 2022 BAs: 170, 130, 190, 150, 150, 200, 170, 220, 100; mean 164.

124 4110 - Sugar Maple Association Sawtimber Medium 8.7 107 141-170 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Oak	2	XLog	18	
Black Cherry	3	Log	14	
Beech	10	XLog	24	
Basswood	10	Log	14	
Bigtooth Aspen	5	Log	14	
Sugar Maple	70	Pole/Log	9	107

Sub-Canopy Species	Density	Avg. Height	Size
Beech	Full	Variable	Sapling
Sugar Maple	Low	Variable	Sapling
Ironwood	Medium	Variable	Sapling

All ash and most of the beech were cut in March 2013 from south 6 acres of stand. Some large, old beech were retained for habitat. 2022 BAs: 150, 100, 190; mean 147. Beech regeneration is dense in cut area.

125 4199 - Other Mixed Upland Deciduous Poletimber Well 42.1 35 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	15	Pole/Sapling	5	
Bigtooth Aspen	5	Pole	7	35
Black Cherry	40	Pole/Sapling	5	35
Ironwood	30	Sapling/Pole	4	
Quaking Aspen	10	Pole	7	35

Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	Low	Variable	Sapling
Black Cherry	Low	Variable	Sapling
Ironwood	Full	Variable	Sapling

Stand includes several small openings. Small amounts of red oak, basswood, white ash, white pine.



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

126 42100 - Planted White Pine Sawtimber Medium 6.5 61 111-140 N/A

Stand was thinned in 2009. Heavily damaged by 3/2/2012 snowstorm, especially the southeast part, which was salvage thinned in 2013. Ironwood, beech, and heavily browsed ash seedlings; thick white pine seedlings in some open gaps. 2011 SI trees: 10.0" 64', 9.0" 62'. 2022: understory now dense white pine saplings in SE part of stand, hardwoods in NW part. BAs: 130, 140, 100; mean 123.

Canopy Species					% Cover	Size Class	DBH	Age	Sub-Canopy Species				Density	Avg. Height	Size
Red Pine		25	Pole/Log	9	61				Black Cherry	Trace	5 - 10 feet	Sapling			
White Pine		65	Log/Pole	10	61				White Pine	High	5 - 10 feet	Sapling			
Black Cherry		8	Log/Pole	12					White Ash	Trace	5 - 10 feet	Sapling			
Sugar Maple		2	XLog	24					Sugar Maple	Low	5 - 10 feet	Sapling			
									Ironwood	High	Variable	Sapling			
									Beech	Medium	Variable	Sapling			

127 4110 - Sugar Maple Association Sawtimber Well 1.1 105 171-200 N/A

A few beech, hemlock, red maple.

Canopy Species					% Cover	Size Class	DBH	Age	Sub-Canopy Species				Density	Avg. Height	Size
Sugar Maple		94	Log/Pole	10	105				Beech	High	Variable	Sapling			
Black Cherry		3	Log	14					Hemlock	Medium	10 - 20 feet	Sapling			
Red Maple		3	Log	14					Ironwood	Low	Variable	Sapling			

128 4130 - Aspen Sawtimber Medium 8.4 62 N/A

Stand is succeeding to hardwoods. Numerous dead/down aspen.

Canopy Species					% Cover	Size Class	DBH	Age	Sub-Canopy Species				Density	Avg. Height	Size
Bigtooth Aspen		15	Log	14					Ironwood	Low	Variable	Sapling			
White Pine		2	Pole	8					Beech	Low	Variable	Sapling			
Basswood		1	Pole/Log	9					Sugar Maple	Full	Variable	Sapling			
Black Cherry		5	Log	15											
Sugar Maple		20	Pole/Log	8											
Beech		2	Log/Pole	13											
Quaking Aspen		55	Log/Pole	12	62										

129 4319 - Mixed Upland Forest Poletimber Well 45.1 64 81-110 N/A

Stand is a mosaic of patches of planted white pine, mixed hardwoods, and regenerated aspen. OI records show planting date of 1958 for pine in the north end of the stand, 1962 in the southeast. Larger patches of WP were thinned in Dec. 2018. 2022 BAs: 130, 50, 100, 80, 60, 140; mean 93.

Canopy Species					% Cover	Size Class	DBH	Age	Sub-Canopy Species				Density	Avg. Height	Size
White Pine		40	Log/Pole	10	64				Beech	High	Variable	Sapling			
Black Cherry		18	Pole/Sap/Log	6					White Pine	Low	Variable	Sapling			
Sugar Maple		12	Pole/Log/Sap	8					Pin Cherry	Low	>20 feet	Sapling			
Red Pine		1	Pole	8					Ironwood	Low	Variable	Sapling			
Red Maple		2	Pole/Log	8					Sugar Maple	Low	Variable	Sapling			
Quaking Aspen		17	Pole/Sapling	5	28				Black Cherry	Low	Variable	Sapling			
Bigtooth Aspen		8	Pole/Sapling	5	28										
Pin Cherry		2	Sapling/Pole	4											



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
130	42110 - Planted Red Pine	Sawtimber Medium	26.9	61	81-110	N/A	Stand was thinned in 2009, then salvage cut in 2014 after March, 2012 storm damage. Includes a small wetland at the south end of the stand, south of Fowler Rd. Old foundations near road. 2011 SI trees: 10.9" 69', 10.5" 72', 9.7" 70'. Average BA from 13 plots after the 3/2/12 snowstorm = 125, though many of these stems were broken. BA of unbroken stems = 90. About 1/3 of red pine was damaged. 2022 BAs: 160, 170, 120, 40, 50, 180, 90; mean 115. Regeneration is thick wherever canopy opened up. mostly beech.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
White Spruce	2	Pole/Log	8		Deciduous Saplings	Medium		< 5 feet	Seeding
Red Pine	92	Log/Pole	10	61	Beech	High		Variable	Sapling
White Pine	2	Log	16		Red Pine	Low		< 5 feet	Seeding
Black Cherry	2	Pole/Log	9		Ironwood	Low		Variable	Sapling
Red Oak	2	Log/Pole	12		White Pine	Low	Variable	Sapling	
131	4130 - Aspen	Sawtimber Medium	17.6	66	81-110	N/A	Good advanced regeneration of sugar maple throughout most of the stand. Some mortality in aspen, especially quaking aspen. Scattered elm, hemlock, and white pine. There appears to be some variation in aspen ages; Y.O.O. for bigtooth aspen was listed as 1935 in last inventory.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Sugar Maple	18	Pole/Log/Sap	8		Sugar Maple	Full		Variable	Sapling
Quaking Aspen	30	Log/Pole	13	66	Ironwood	Medium		Variable	Sapling
Bigtooth Aspen	30	Log	14						
Basswood	3	Pole/Log	8						
Black Cherry	15	Log	14						
Ironwood	4	Pole/Sapling	5						
132	42110 - Planted Red Pine	Sawtimber Medium	5.9	61	81-110	N/A	Mixed pine plantation; Scotch pine was removed in a 2009 harvest. Some white and Scotch pine seedlings in open gaps. 2022 BAs: 110, 130, 170, 30; mean 110.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Pine	80	Log	12	61	Black Cherry	Low		5 - 10 feet	Sapling
White Pine	20	Log	14	61	Beech	Full	Variable	Sapling	
133	4139 - Aspen, Mixed Deciduous	Poletimber Well	30.8	48	111-140	N/A	Scattered white pine, elm, juneberry. 2022 BAs 80, 180, 160, 120, 40; mean 116.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Bigtooth Aspen	32	Pole/Log	9	48	Ironwood	High		Variable	Sapling
Black Cherry	3	Log/Pole	12		Sugar Maple	Medium		Variable	Sapling
Quaking Aspen	8	Pole/Log	9		Beech	Low		Variable	Sapling
Ironwood	4	Pole	6						
Red Maple	35	Pole/Log	9	58					
Beech	1	Log/Pole	13						
Basswood	2	Pole	8						
Sugar Maple	15	Log/Pole	10						
134	4116 - Mixed N. Hardwood - Aspen	Sawtimber Well	14.2	79	111-140	N/A	2022 BAs 160, 130, 160, 90; mean 135.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	
Red Maple	60	Log/Pole	11	79	Sugar Maple	Low	Variable	Sapling	
Beech	3	Log/Pole	12		Beech	Low	Variable	Sapling	
Bigtooth Aspen	30	Log/Pole	11		Ironwood	Low	Variable	Sapling	
Black Cherry	5	Log/Pole	11						
Sugar Maple	2	Log/Pole	10						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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135 4130 - Aspen Poletimber Well 16.3 28 Immature N/A There was substantial bending and breaking from 3/2/2012 snowstorm

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Beech	1	Pole	7		Black Cherry	Low	Variable	Sapling
Quaking Aspen	5	Pole	5		Ironwood	Medium	Variable	Sapling
Black Cherry	16	Pole/Sapling	5	28	Sugar Maple	Low	Variable	Sapling
Bigtooth Aspen	60	Pole/Sapling	6	28	Beech	Medium	Variable	Sapling
Red Maple	3	Pole/Sapling	6					
White Pine	10	Log/Pole/XLog	14					
Sugar Maple	5	Pole/Sapling	6					

136 6225 - Bog Nonstocked 0.6 No Small open wetland spans property line.

Sub-Canopy Species	Density	Avg. Height	Size
Willow spp.	Trace	5 - 10 feet	Tall Shrub
Leatherleaf	High	< 5 feet	Tall Shrub
Sedges	Medium		Non-Wood

137 3103 - Rubus-Fern Nonstocked 1.0 No

Sub-Canopy Species	Density	Avg. Height	Size
Blackberry/Raspberry	Low	< 5 feet	Tall Shrub
Bracken Fern	High		Non-Wood
White Pine	Trace	Variable	Sapling
Mixed Grasses	High		Non-Wood

138 4111 - S.Maple, Hard Mast Association Sawtimber Well 3.5 97 81-110 N/A Scattered white pine. 2022 BAs: 100, 120, 90; mean 103.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	2	Log	16		Beech	Low	>20 feet	Pole
Red Maple	2	Log	15		Sugar Maple	Low	>20 feet	Sapling
Black Cherry	15	Log/Pole	13		White Pine	Low	Variable	Sapling
Beech	15	Log/Pole/XLog	14		Ironwood	Low	Variable	Sapling
Quaking Aspen	6	Log	14		Beech	High	Variable	Sapling
Sugar Maple	60	Log/Pole	10	97				

139 4110 - Sugar Maple Association Sawtimber Medium 14.5 95 81-110 N/A Small numbers of canopy hemlock, red maple. Selection harvest in spring 2016; NE finger of stand was excluded from the sale (steep, more pole-sized). 2022 BA about 90.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Cherry	5	Log	16		White Ash	Trace	< 5 feet	Seeding
Sugar Maple	86	Log/Pole	11	95	Sugar Maple	Low	Variable	Sapling
Beech	2	XLog/Log	18		Hemlock	Low	10 - 20 feet	Sapling
Basswood	7	Log/XLog	16		Ironwood	High	< 5 feet	Seeding
					Ironwood	Medium	Variable	Sapling
					Beech	Low	Variable	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
140	42101 - Planted White Pine, Mixed Deciduous	Poletimber Medium	8.1	60	111-140	N/A	3rd-row thinned in January 2019, plus all merchantable aspen cut. 2022 BAs: 200, 90, 150, 90; mean 132.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	15	Pole	7		Beech	Medium	Variable	Sapling
Red Maple	6	Pole/Log	8					
White Pine	70	Pole/Log	9	60				
Black Cherry	8	Log/Pole	13					
Ironwood	1	Pole/Sapling	6					

141	4319 - Mixed Upland Forest	Poletimber Medium	11.1	66	81-110	N/A	Thinned 2017. 2022 BAs: 70, 170, 140, 90, 50; mean 104.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Beech	4	XLog/Log	22		Sugar Maple	Low	Variable	Sapling
Red Maple	4	Pole	7		Beech	Medium	Variable	Sapling
Quaking Aspen	2	Log/Pole	10		Ironwood	Low	Variable	Sapling
Black Cherry	20	Log	15					
White Pine	50	Pole/Log	9	66				
Sugar Maple	20	Pole/Sap/Log	7					

142	4133 - Aspen, Mixed Pine	Sawtimber Well	11.0	48		N/A	
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	7	Log/Pole	10		Ironwood	Low	Variable	Sapling
Quaking Aspen	3	Log/Pole	10	48	Sugar Maple	Low	>20 feet	Pole
Black Cherry	8	Log/Pole	12		Beech	Low	Variable	Sapling
White Pine	20	Log/Pole	12		Sugar Maple	High	Variable	Sapling
Bigtooth Aspen	60	Log/Pole	11	48				
Sugar Maple	2	Log	16					

143	500 - Water	Nonstocked	1.2			No	
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144	4140 - Other Upland Deciduous	Poletimber Well	1.2	79	81-110	N/A	Isolated hardwood patch between red pine plantation and adjacent private land. Steep hillside. Birch and Douglas-fir dying off.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Ironwood	2	Pole	8		Ironwood	High	Variable	Sapling
Sugar Maple	10	Log	14		Red Maple	Medium	Variable	Sapling
Red Maple	15	Log/Pole/XLog	14					
Douglas Fir	2	Pole	7					
Paper Birch	68	Pole/Log	8	79				
Bigtooth Aspen	3	Log	14					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																				
145	42110 - Planted Red Pine	Poletimber Medium	41.1	60	111-140	N/A	3rd-row thinned winter 2015-16, plus all merchantable aspen harvested. 2022 BAs: 90, 160, 130, 140, 120, 170; mean 135. Some pine volunteers in open lanes.																																																				
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146	3303 - Mixed Low Density Trees	Nonstocked	1.0			No																																																					
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147	4111 - S.Maple, Hard Mast Association	Sawtimber Well	36.9	114	81-110	N/A	Scattered hemlock, white pine, elm and basswood. Numerous old, hollow beech and old veteran maple. 2022 BAs: 140, 90, 100, 100, 110, 90; mean 105. Some BBD mortality.																																																				
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148	4112 - Maple, Beech, Cherry Association	Sawtimber Medium	19.8	115	51-80	N/A	(2011 comment: Average BA from 6 plots = 122.) Selection harvest in fall 2016; BA reduced by almost half. Sale was a chip harvest.																																																				
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149	3301 - Low Density Deciduous Trees	Nonstocked	2.0		Immature	No																																																					
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151	4130 - Aspen	Poletimber Well	18.8	51		N/A	There is a concentration of hardwoods in the SE part of the stand.																																																				
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152	4112 - Maple, Beech, Cherry Association	Sawtimber Poor	3.6	107	1-50	N/A	Shelterwood prep cut in fall 2016, retaining about 35-40 BA of mixed hardwoods for seed & shade. 2022: regen is almost totally beech.																																																				
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153	4199 - Other Mixed Upland Deciduous	Poletimber Medium	9.9	18	1-50	N/A	Clearcut with residuals in 2004: numerous residual white pines (especially at the south end of the stand) and hardwoods. 2-storied. Patchy distribution of aspen saplings and advanced sugar maple regeneration. Good diversity.																																																				
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154	4130 - Aspen	Sapling Well	13.5	18	Immature	N/A	Clearcut in 2004, sugar maple and white pine were left as residuals, plus some aspen poles on the periphery, resulting in a 2-storied stand.																																																				
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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155 3303 - Mixed Low Density Trees Nonstocked 1.6 No Stand is in a depression. Lowest spot is a small pond; water level fluctuates over the years. Upland area is filling in with white pine.

Sub-Canopy Species	Density	Avg. Height	Size
Black Cherry	Low	>20 feet	Pole
Bigtooth Aspen	Low	>20 feet	Pole
White Pine	Medium	Variable	Sapling
Mixes Sedges/Grasses	High		Non-Wood
Bracken Fern	High		Non-Wood

156 4319 - Mixed Upland Forest Sawtimber Medium 6.8 64 81-110 N/A Hardwoods are mostly low quality, multi-stemmed. Gaps filling in with white pine.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	10	Log/XLog	17		White Pine	Medium	Variable	Sapling
White Pine	50	Log/Pole	12	64	Beech	Low	Variable	Sapling
Sugar Maple	10	Pole/Log/Sap	9		Sugar Maple	Low	Variable	Sapling
Black Cherry	30	XLog/Log	18					

157 4117 - Mixed N. Hardwood - Pine Sawtimber Medium 3.6 115 111-140 N/A Numerous multi-stemmed maples.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	25	Log	14		White Pine	Low	Variable	Sapling
Bigtooth Aspen	3	Log	12		Beech	Low	Variable	Sapling
White Pine	20	Log/Pole	10		Sugar Maple	Low	Variable	Sapling
Black Cherry	5	Log	14					
Ironwood	2	Pole	8					
Sugar Maple	45	Log/XLog	16	115				

158 4114 - Beech, Hemlock Sapling Well 7.4 9 Immature N/A This stand was part of larger RP plantation, thinned in 2009, heavily damaged by a 3/2/12 snowstorm, then clearcut in March 2013. Some scattered remnant mature trees. Regeneration is mostly beech, but there's a good distribution of pines and other hardwoods filling in.

Canopy Species	% Cover	Size Class	DBH	Age
White Pine	4	Sapling	1	
Red Pine	8	Sapling	1	
White Ash	10	Sapling	1	
Sugar Maple	3	Sapling	1	
Ironwood	10	Sapling	1	
Beech	60	Sapling	1	9
Black Cherry	3	Pole/Sapling	7	
Red Oak	2	Sapling/Pole	1	



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159	4319 - Mixed Upland Forest	Sapling Medium	1.6	9	Immature	N/A	Heavily damaged parts of plantation from 3/2/2012 snowstorm; subsequently clearcut in March 2013. Lots of rotting, downed pine trees. 2022: now well stocked with mixed pine/hardwoods. West patch mostly ironwood and other hardwoods, but thick white pine along east edge. East patch has a good stocking of white and red pine.																																																																								
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160	4116 - Mixed N. Hardwood - Aspen	Poletimber Poor	7.3	25	1-50	N/A	Failed area of an aspen regeneration cut; filled in with hand-planted white spruce spring 2014.																																																																								
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161	3302 - Low Density Conifer Trees	Nonstocked	25.2	0	Immature	42290 - Natural Mixed Pine	Seed tree harvested summer 2015. Some scattered patches of beech saplings remain for diversity. Field checked for regen Oct. 2018: a few seed trees have fallen, but most remain standing. Low numbers of pine seedlings are coming in (maybe 100-200/acre), mostly RP with JP (especially south part of stand where JP were harvested), and occasional WP; some pines are advanced regen retained when the preceding stand was harvested. Beech saplings scattered throughout, thicker in SW corner of stand. 2022: additional RP are slowly seeding in. Regen plots showed the following number of trees per acre: RP 332 (410/ac if south strip excluded), JP 172, WP 4, beech 568 (mostly clumpy; 321/acre if south strip excluded), cherry 52, RM 4; total 1132; total RP + JP = 508/acre. Additional RP expected to keep filling in from seed trees.																																																																								
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162	42110 - Planted Red Pine	Sawtimber Well	4.6	65	171-200	N/A	Stand was 3rd-row thinned in 2007. 2022 BAs: 150, 200, 180; mean 177.																																																																								
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163	4112 - Maple, Beech, Cherry Association	Sawtimber Medium	35.1	98	81-110	N/A	Formerly part of stand 41, was selection harvested in summer 2017. 2022 BAs: 130, 70, 70, 90, 110; mean 94.																																																																								
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168	4112 - Maple, Beech, Cherry Association	Sawtimber Medium	25.2	98	111-140	N/A	Rolling terrain. Selection cut in fall 2015. 2022 BAs: 130, 140, 120, 110, 100, 90; mean 115. Post-harvest regen mostly just beech.																																																				
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169	623 - Emergent Wetland	Nonstocked	0.8	0		No																																																					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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170 4133 - Aspen, Mixed Pine Sawtimber Well 6.3 70 111-140 N/A Mortality in aspen; succeeding to hardwoods. Stand includes several patches of planted white pine. Scattered elm, red maple. 2022 BAs: 40, 120, 120, 190; mean 118.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Ironwood	2	Pole	5		Sugar Maple	High	Variable	Sapling
Sugar Maple	15	Pole/Log/Sap	7		Beech	Low	5 - 10 feet	Sapling
Quaking Aspen	30	Log/Pole/XLog	15	70	Ironwood	Medium	Variable	Sapling
Bigtooth Aspen	10	Log	15	70				
White Pine	25	Log/Pole	11	60				
Black Cherry	18	Log/XLog	16					

171 4111 - S.Maple, Hard Mast Association Sawtimber Medium 5.7 88 81-110 N/A Select cut 2017.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Cherry	5	Log/Pole	12		Beech	Low	Variable	Sapling
White Pine	2	Log/Pole	10		Beech	High	< 5 feet	Seeding
Red Maple	8	Log	14		Blackberry/Raspberry	Full	< 5 feet	Tall Shrub
Basswood	8	Log	14		Ironwood	Medium	< 5 feet	Seeding
Beech	10	XLog/Log	18					
Bigtooth Aspen	2	Log	14					
Sugar Maple	65	Log/Pole	12	88				

172 4110 - Sugar Maple Association Sawtimber Medium 82.1 88 81-110 N/A Select cut 2017. Scattered yellow birch, elm.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Beech	2	XLog/Log	18		Sugar Maple	Low	>20 feet	Sapling
Red Maple	2	Log	14		Beech	Medium	Variable	Sapling
Sugar Maple	75	Log/Pole	12	88	Ironwood	Low	Variable	Sapling
Black Cherry	4	Log/Pole	12		Ironwood	High	< 5 feet	Seeding
Bigtooth Aspen	2	Log	14		Blackberry/Raspberry	High	< 5 feet	Tall Shrub
Basswood	15	Log/Pole/XLog	14		Bigtooth Aspen	Trace	Variable	Sapling

174 122 - Road/Parking Lot Nonstocked 2.6 Immature No Pettengill Road

175 4112 - Maple, Beech, Cherry Association Sawtimber Medium 74.1 98 51-80 N/A Steep slopes in places. Scattered conifers. Stand was selection harvested in summer 2017, except for the north edges. 2022 BAs: 60, 80, 90, 70; mean 75.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	60	Log/Pole	11	98	Beech	High	Variable	Sapling
Beech	4	Log/XLog	16		Ironwood	Medium	Variable	Sapling
Red Maple	20	Log/XLog	15	90	Sugar Maple	Low	Variable	Sapling
Bigtooth Aspen	2	Log	15	90				
Red Oak	2	XLog/Log	18					
Black Cherry	10	Log/XLog	15					
Basswood	2	Log	14					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																								
177	6239 - Mixed Emergent Wetland	Nonstocked	1.8			No	Pearl Lake shoreline: standing flood-killed timber.																								
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183	3302 - Low Density Conifer Trees	Nonstocked	0.1			No	Island in Pearl Lake. Patch of cedar and other trees surrounded by open shore. Note: not visited/updated 2022.																								
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