



Compartment Review Presentation

Traverse City Forest Management Unit

Compartment 61038

Entry Year 2028

Acreage: 3,636

County: Manistee

Management Area: Grand Traverse Moraine

Stand Examiner: Joe Ventimiglia

Legal Description:

T24N, R14W, Sections 25, 26, 27, 34, 35, 36

Identified Planning Goals:

Vegetation management in the Grand Traverse Moraine (MA) will provide forest products; maintain or enhance wildlife habitat; protect areas of unique character including the Betsie River (a designated natural river), Bear Creek and the Grass Lake Flooding State Wildlife Management Area; threatened, endangered and special concern species; and provide for forest-based recreational uses. The primary attributes and associated uses that influence and drive management in the Manistee Plains management area are wood fiber production, wildlife habitat for existing species and recreational uses. Management activities will emphasize the age, size and species distribution within cover types. Expected trends within this 10-year planning period are increased recreation pressure and continued management to balance cover type age-class distributions for timber and wildlife habitat.

Soil and topography:

Approximately two thirds of the compartment falls into Land Type Association (LTA) 6149: Flat lake plain; very poorly drained muck. Topography is nearly level. Dominant soils of this LTA are mucks. However, about 30% of the LTA is underlain by Suagatuck loamy sands. Loamy sands exist as small, intricately mixed inclusions, too small to map separately. The remaining third of the compartment falls into LTA 6111: Broad flat lake plain; excessively drained sand and loamy sand. The dominant soil type for this LTA is Rubicon loamy sand, which is characterized by excessive drainage that is nearly devoid of organic matter. Glacial and bedrock geology for both LTA's is associated with lacustrine sediments deposited beneath a glacial lake.

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

This compartment is a part of a large block of State ownership in north central Manistee County. The only private land within the compartment is located in the west half of section 27 and the southwest quarter of section 34. Surrounding land is mostly State ownership to the north and east with mixed State and private lands to the south and west. Private land use is mostly rural residential and seasonal recreational with little new development in the last ten years. There is a new subdivision development in the southwest corner of section 22 along Bear Creek that is adjacent to the very northwest corner of the compartment.

Unique Natural Features:

Third Creek flows through section 25. Healy Lake in section 34.

Archeological, Historical, and Cultural Features:

none known. Healy Lake was once called Crokey Lake, after one of the first homesteaders in the area. Part of the area around Healy Lake was once owned by the Groupee Orchard Company of California in the early 1900's. Some of their apple trees are still standing, but much of their former ownership is now in red pine.

Special Management Designations or Considerations:

MNFI occurrences show that Wood Turtle populations exist in the area surrounding this compartment. In addition, stand 115 has an element occurrence of a red shouldered hawk - next was not found during inventory process.

Watershed and Fisheries Considerations:

Third Creek flows through Compartment 38. Third Creek is a Designated Trout Stream that has resident populations of brown and brook trout, along with migratory populations of steelhead, Chinook salmon, and possibly coho salmon. Third Creek is relatively small, and is vulnerable to damming by beavers. Therefore, we ask that the proposed aspen clearcut for Stand 128 be modified slightly. In particular, we ask that the clearcut be restricted to those upland portions of Stand 128. There is a short bluff or rise that runs the length of the stand. If cutting were restricted to those portions of the stand landward (south or west) of the top of the bluff, that would accomplish the goal of regenerating aspen while also protecting Third Creek.

Wildlife Habitat Considerations:

Approximately one third of Compartment 38 rest on well drained lake plain soils (a loamy sand). Pine plantations cover a large percentage of the uplands. Where possible, hardwoods should be encouraged within these plantations for within stand diversity. Also when possible, a 2-5 acre island within a mature plantation could be left relatively un-thinned to provide winter roosting cover for turkeys. Aspen also has a strong presence here and is managed to provide a variety of age classes. Retention of mast/bud producing trees/shrubs, creation of downed logs during harvest operations, and leaving tops un-chipped are excellent ways to increase wildlife use of regenerating aspen. Several cuts are planned to regenerate aspen needed by many wildlife species, including snowshoe hare, ruffed grouse, deer, woodcock, chestnut-sided warblers, and tiger salamanders. Hardwood stands are scattered about this compartment and provide diversity amongst the pine plantations. Hardwood treatments are typically designed to incorporate the preservation of within-stand tree species diversity, the retention of mature mast producing trees, and the protection of den, cavity, and downed trees. Species benefiting from hardwood forests include northern goshawk, wild turkey, gray squirrels, and eastern box turtles.

Openings are scattered about this compartment and a variety of maintenance projects have been scheduled for this entry period, including, selective hand felling, planting of herbaceous ground cover, mowing and fertilizing of grassy openings, planting of fruiting shrubs, and some prescribed burning. Non-forested habitats provide essential life requirements for a variety of wildlife in the form of food (herbaceous forage, fruiting shrubs, insects, small mammals, etc.) and cover (clumps of shrubs, tall grasses and ferns, brushy edges, etc.). Turkey, deer, eastern bluebirds, meadow jumping mice, and smooth green snakes are just a sample of the many species that use these openings.

The poorly drained soils in this compartment support several lowland communities, mostly lowland deciduous forests. Lowland coniferous stands as well as several bogs and lowland brush communities are scattered throughout the deciduous forests. Great blue herons, wood ducks, red-shouldered hawks, black bear, and wood frogs are just several of the many species that use bottomland forests. Inclusions of drier soils can also be found here and several aspen cuts are planned to produce horizontal cover and browse from downed tops, as well as browse and cover from the flush of regenerating aspen stems. Coniferous components (spruce and fir) within these cuts will be retained for additional wildlife cover. When timber sales are adjacent to lowland appropriate lowland stands the new snowshoe hare habitat spec should be used to create horizontal cover.

Mineral Resource and Development Concerns and/or Restrictions

There is no known potential for the occurrence of economic deposits of metallic minerals in this part of the state. No active sand/gravel operations are known to occur in the area. The compartment appears mostly low and flat, with many wetlands, which would inhibit aggregate mining. The compartment might also be too far from populated areas (markets) for any aggregate resources to have much value beyond use by the county road commission or DNR for local road maintenance. The compartment is within both the Antrim Shale and Silurian reef hydrocarbon plays, and all State-owned mineral rights within the compartment are currently leased and held by producing units. While there still may be some potential for Antrim gas production from beneath the compartment, it is uneconomical at current gas prices to develop new Antrim wells, and potential future Antrim gas development is considered very low. Potential for additional future wells targeting Silurian reefs cannot be fully evaluated without access to proprietary industry data.

Vehicle Access:

See roads layer for detailed road map of area. State two tracks and county roads traverse most of compartment with exception of SE portion which has network of two tracks closed to motorized traffic due to low wet conditions.

Survey Needs:

None at this time for timber sale needs.

Recreational Facilities and Opportunities:

The Betsie River Snowmobile Trail transects the compartment. Healy Lake Campground, a state forest campground operated under a use permit by Springdale Township since 1986. Appropriate trail and campground protection specifications should be considered if proposed treatments impact these amenities. (T.M.N. 1/26/16).

Fire Protection:

Traverse City DNR office and Copemish-Cleon Volunteer Fire Department would respond to any fire needs in this compartment.

Additional Compartment Information:

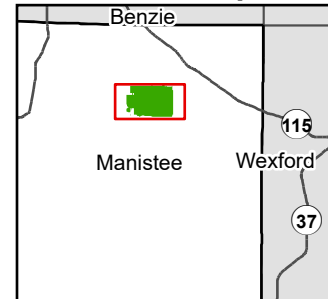
The following reports from the Inventory are attached:

- 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**

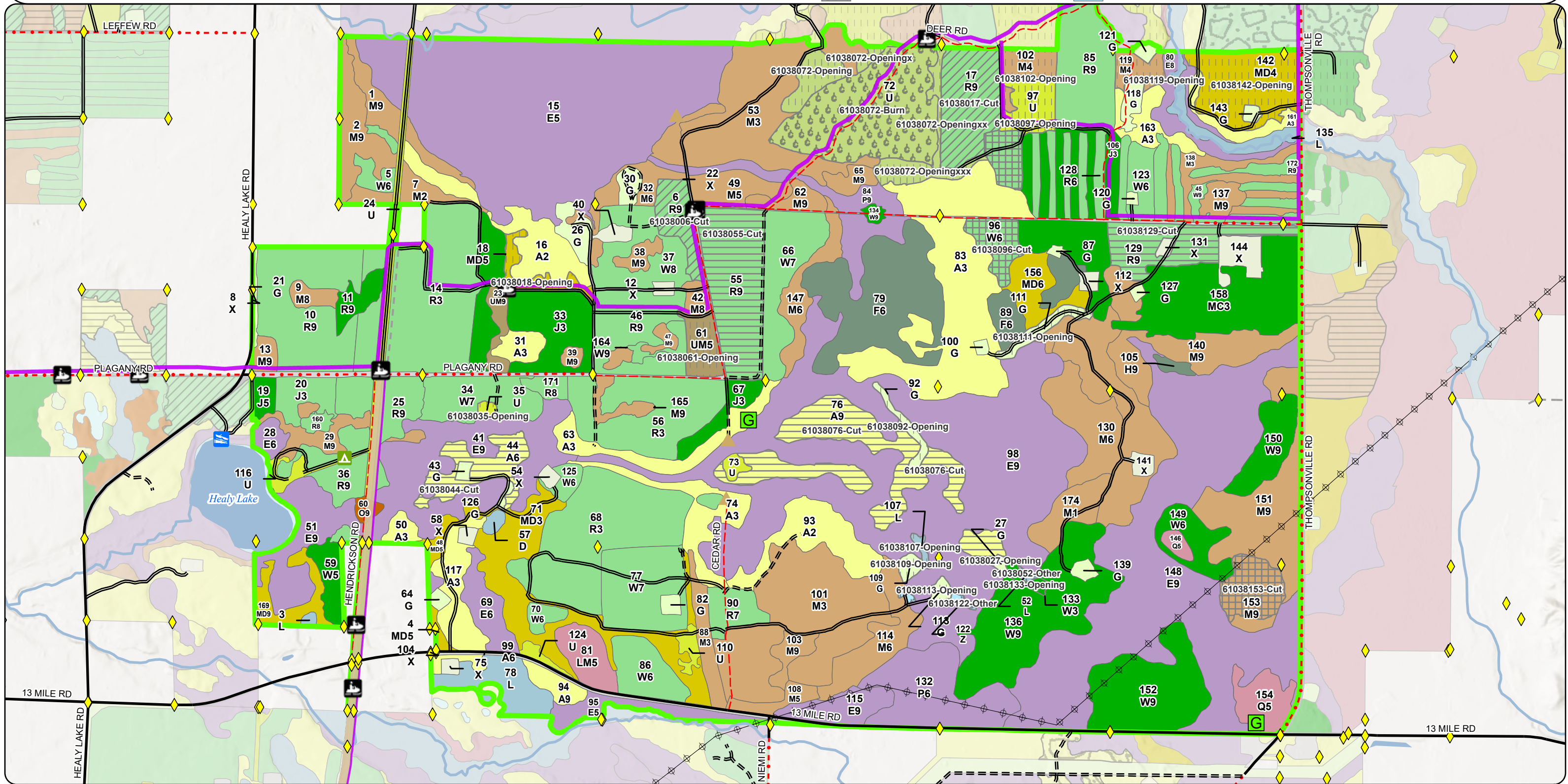
Cover Type & Treatments Map



Compartment: 61038
T24N R14W 25-27, 34-36
County: Manistee
Unit: Traverse City
Mgmt. Area: Grand Traverse Moraine
YOE: 2028
Acres: 3,636 GIS Calculated
Examiner: Joe Ventimiglia
Date Exported: 06/29/2026
Map Phase: Web Post

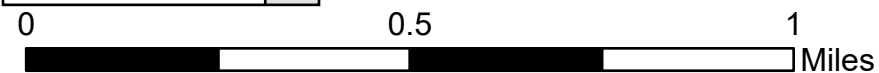
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|--|--|---|--|
| <ul style="list-style-type: none">Survey Grade CornersBoating Access SiteState Forest CampgroundBermGateDesignated SnowmobileRailtrailDNR - Secondary Forest RoadDNR - Forest Access RouteFederal / State / County - Paved Road | <ul style="list-style-type: none">County - Gravel RoadCounty - Dirt Road (Seasonal)Private - Dirt / Gravel RoadStreamsLakes and RiversElectricCompartment BoundaryClearcutSeed TreeThinningPrescribed Burn | <ul style="list-style-type: none">Openings Mgmt.Other Treatments - See Comments411 - Northern Hardwood412 - Oak Types413 - Aspen419 - Mixed Upland Deciduous421 - Planted Pines422 - Natural Pines423 - Other Upland Conifers430 - Upland Mixed Forest500 - Water | <ul style="list-style-type: none">611 - Lowland Deciduous Forest612 - Lowland Coniferous Forest613 - Lowland Mixed Forest110 - Low Intensity Urban310 - Herbaceous Openland320 - Upland Shrub330 - Low Density Trees622 - Lowland Shrub790 - Other Bare/Sparsely Vegetated |
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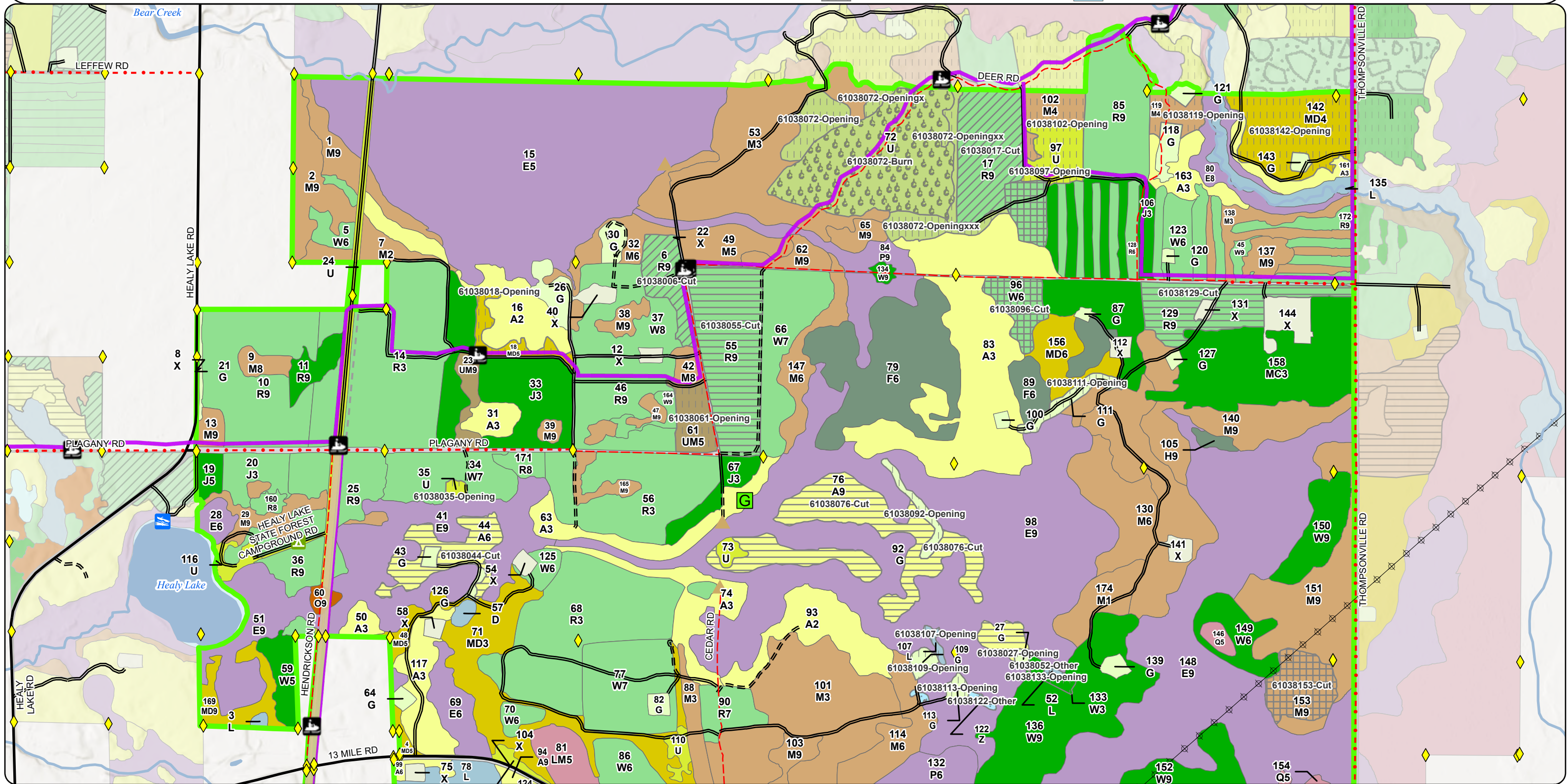


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|---------------------------------------|-------------------------------|---------------------------------|-------------------------------------|
| Survey Grade Corners | County - Gravel Road | Openings Mgmt. | 611 - Lowland Deciduous Forest |
| Boating Access Site | County - Dirt Road (Seasonal) | Other Treatments - See Comments | 612 - Lowland Coniferous Forest |
| State Forest Campground | Private - Dirt / Gravel Road | 411 - Northern Hardwood | 613 - Lowland Mixed Forest |
| Berm | Streams | 412 - Oak Types | 110 - Low Intensity Urban |
| Gate | Lakes and Rivers | 413 - Aspen | 310 - Herbaceous Openland |
| Designated Snowmobile | Electric | 419 - Mixed Upland Deciduous | 320 - Upland Shrub |
| Railtrail | Compartment Boundary | 421 - Planted Pines | 330 - Low Density Trees |
| DNR - Secondary Forest Road | Clearcut | 422 - Natural Pines | 622 - Lowland Shrub |
| DNR - Forest Access Route | Seed Tree | 423 - Other Upland Conifers | 790 - Other Bare/Sparsely Vegetated |
| Federal / State / County - Paved Road | Thinning | 430 - Upland Mixed Forest | |
| | Prescribed Burn | 500 - Water | |



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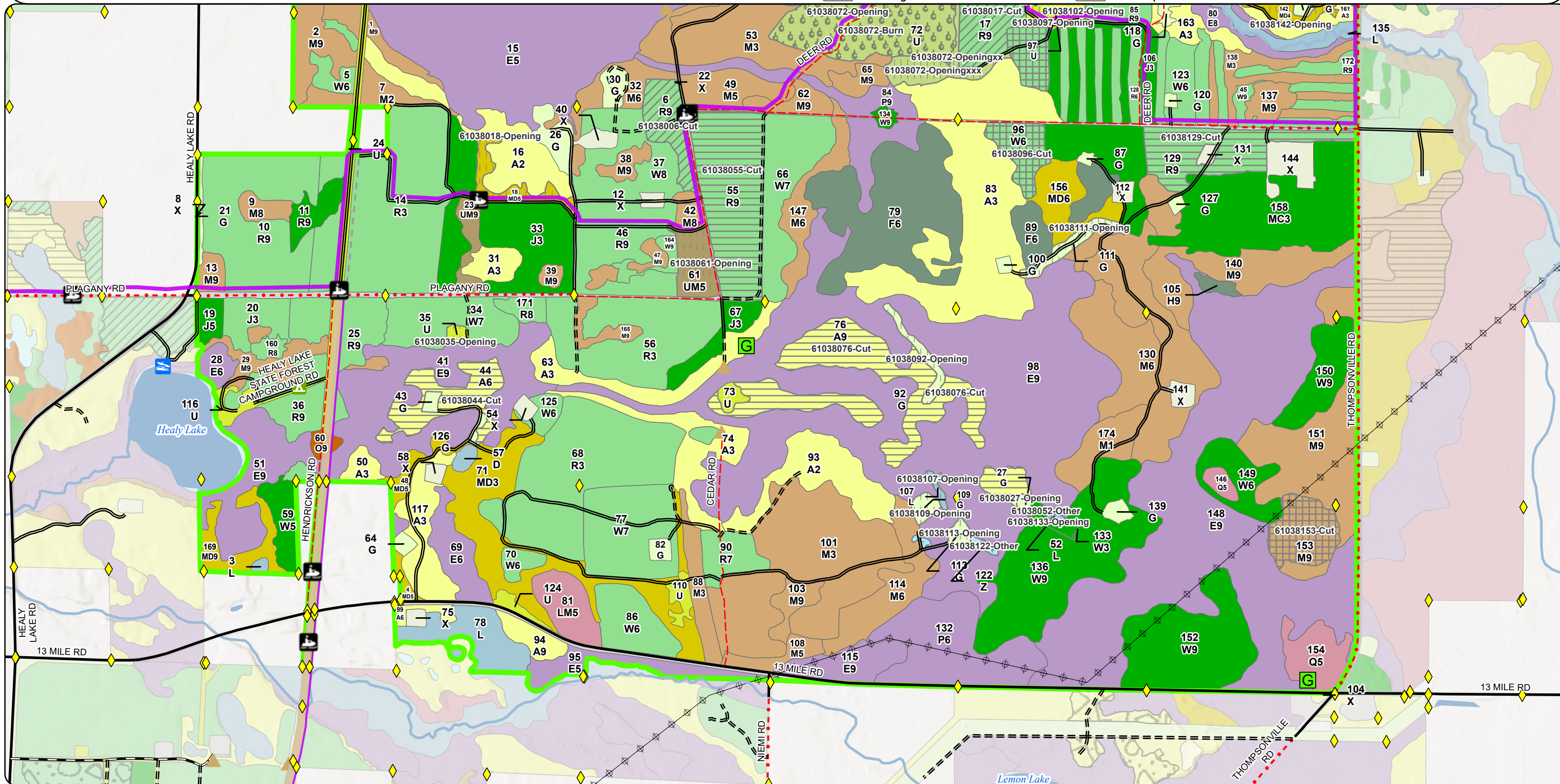
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- Survey Grade Corners
- Boating Access Site
- State Forest Campground
- Berm
- Gate
- Designated Snowmobile
- Railtrail
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
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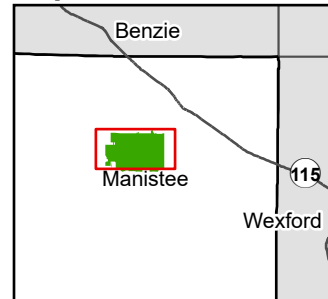
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Stand Boundary Map

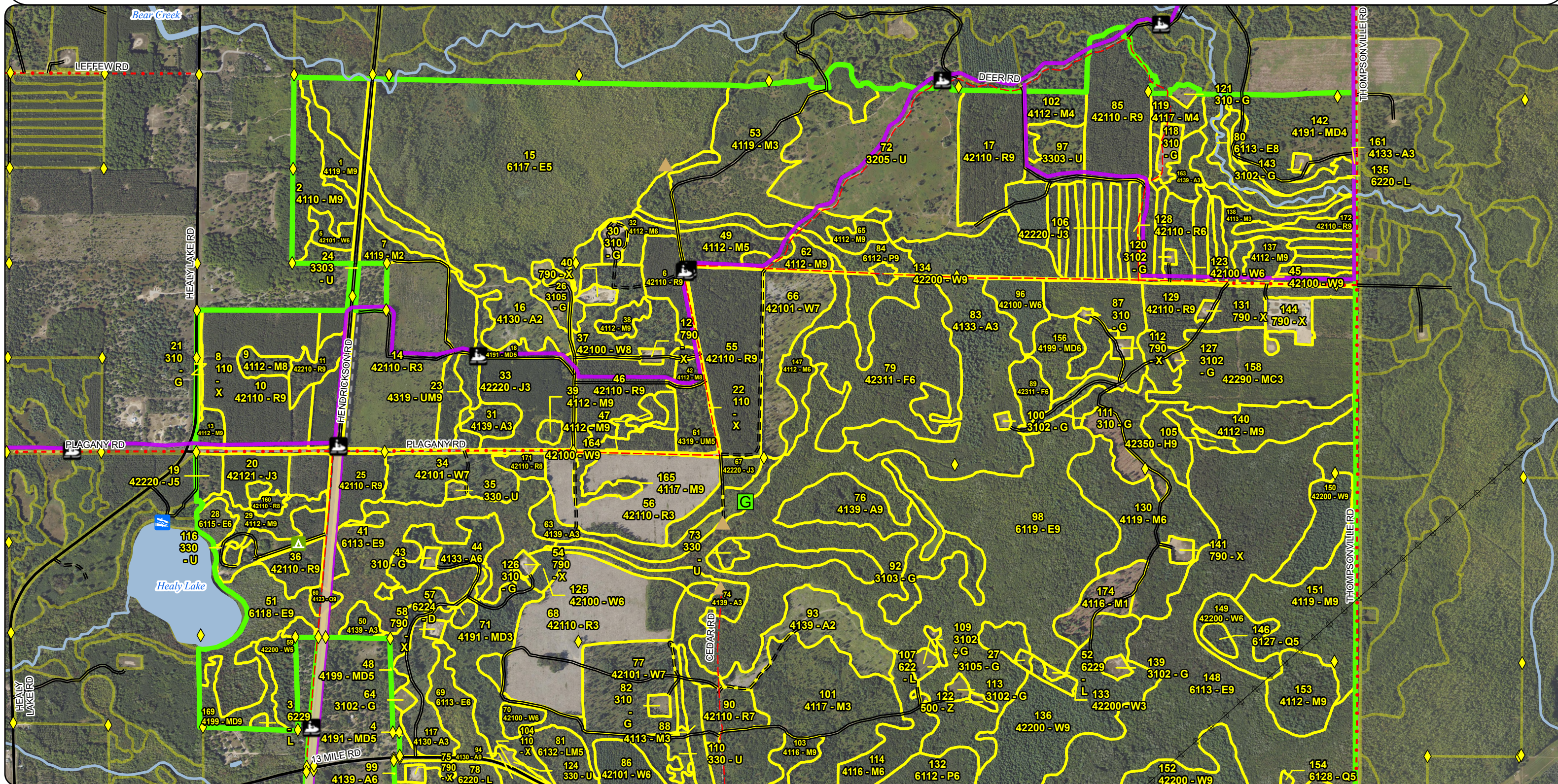


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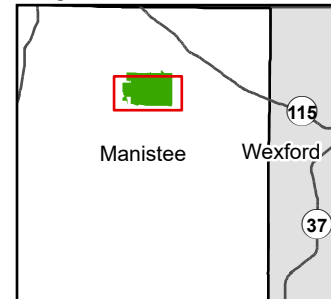
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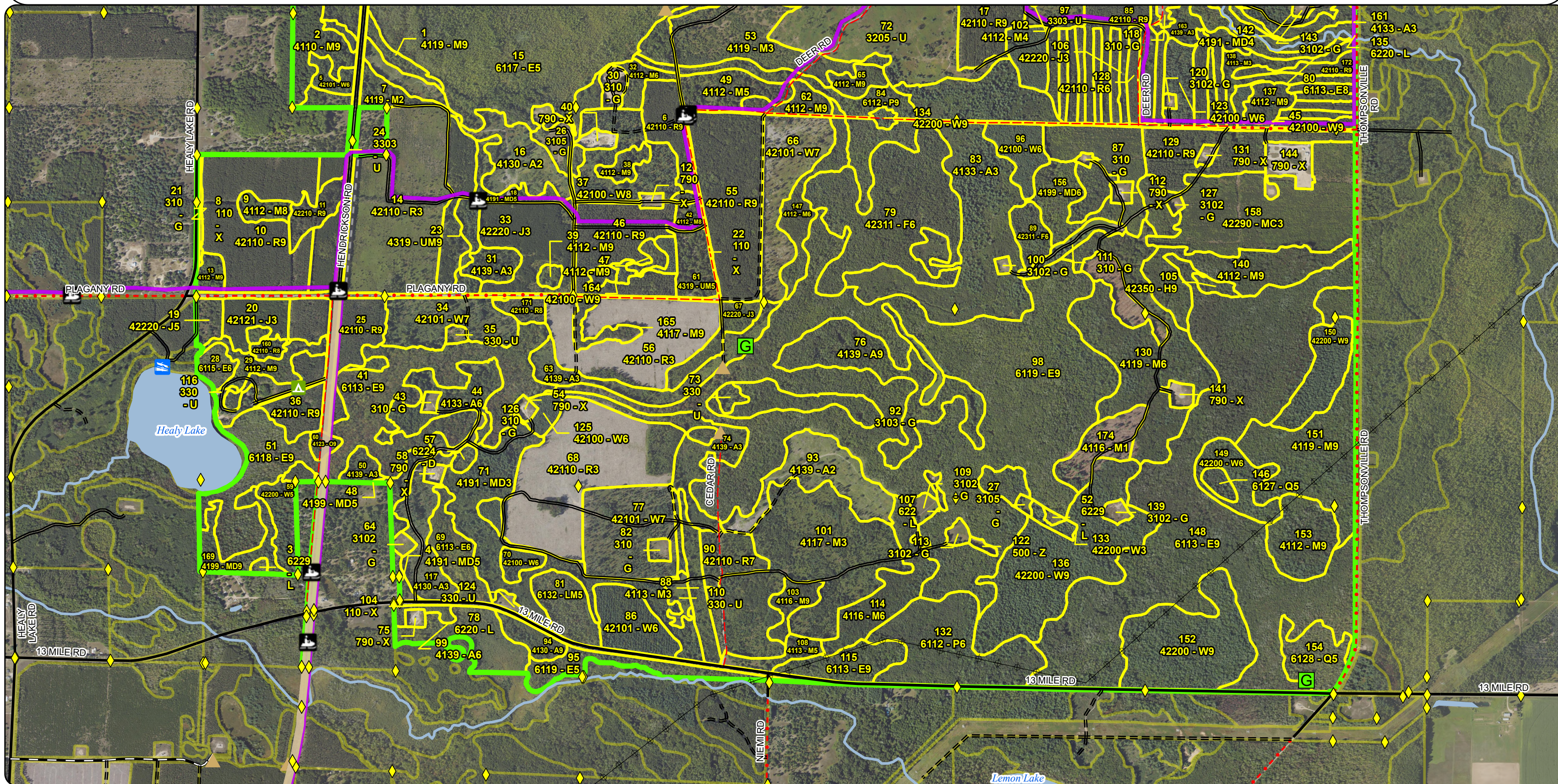


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Special Conservation Areas & Site Conditions Map

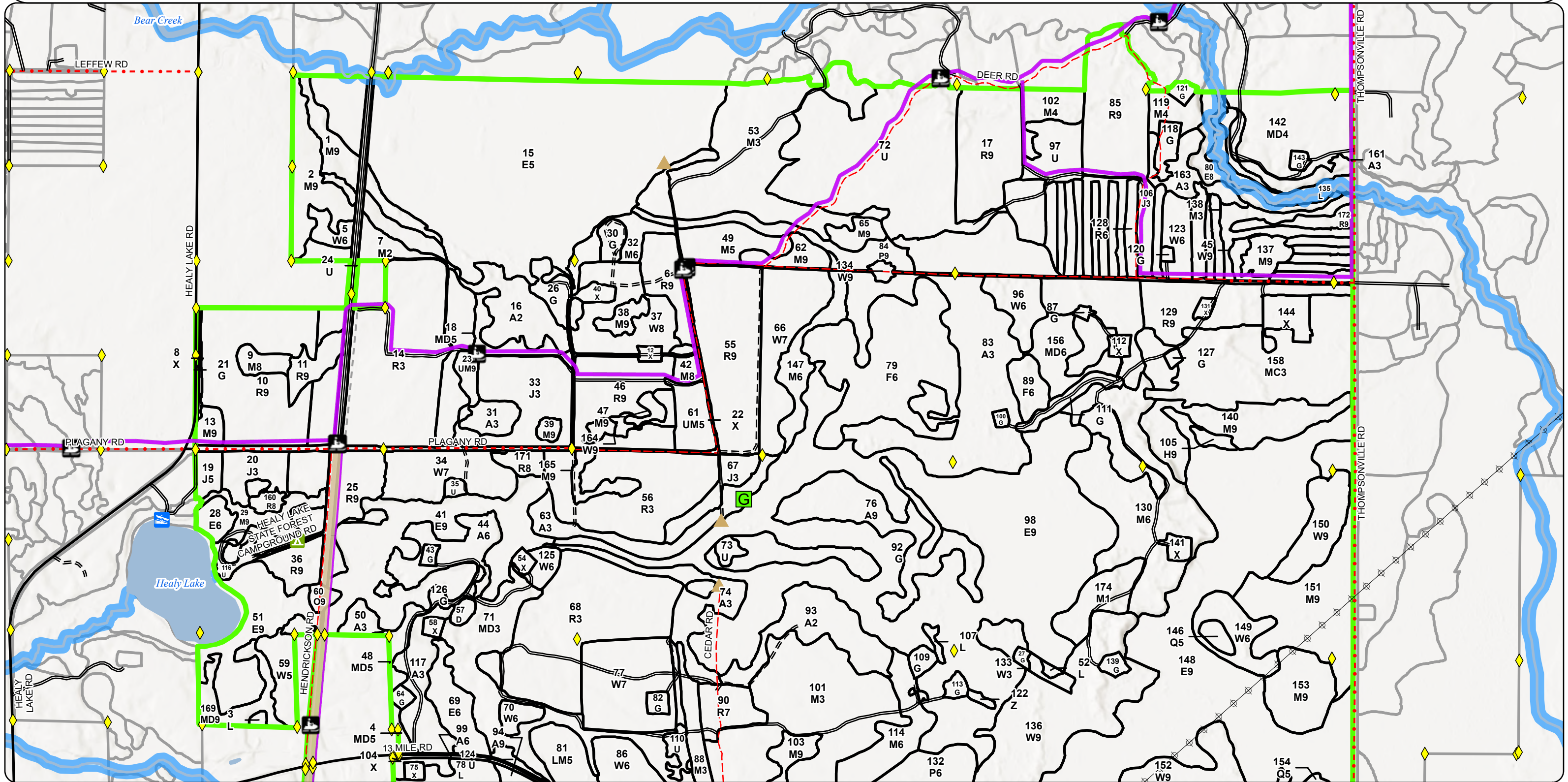
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- Compartment Boundary
- Cold Water Streams
- High Priority Trout Stream Buffer



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Survey Grade Corners

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Streams

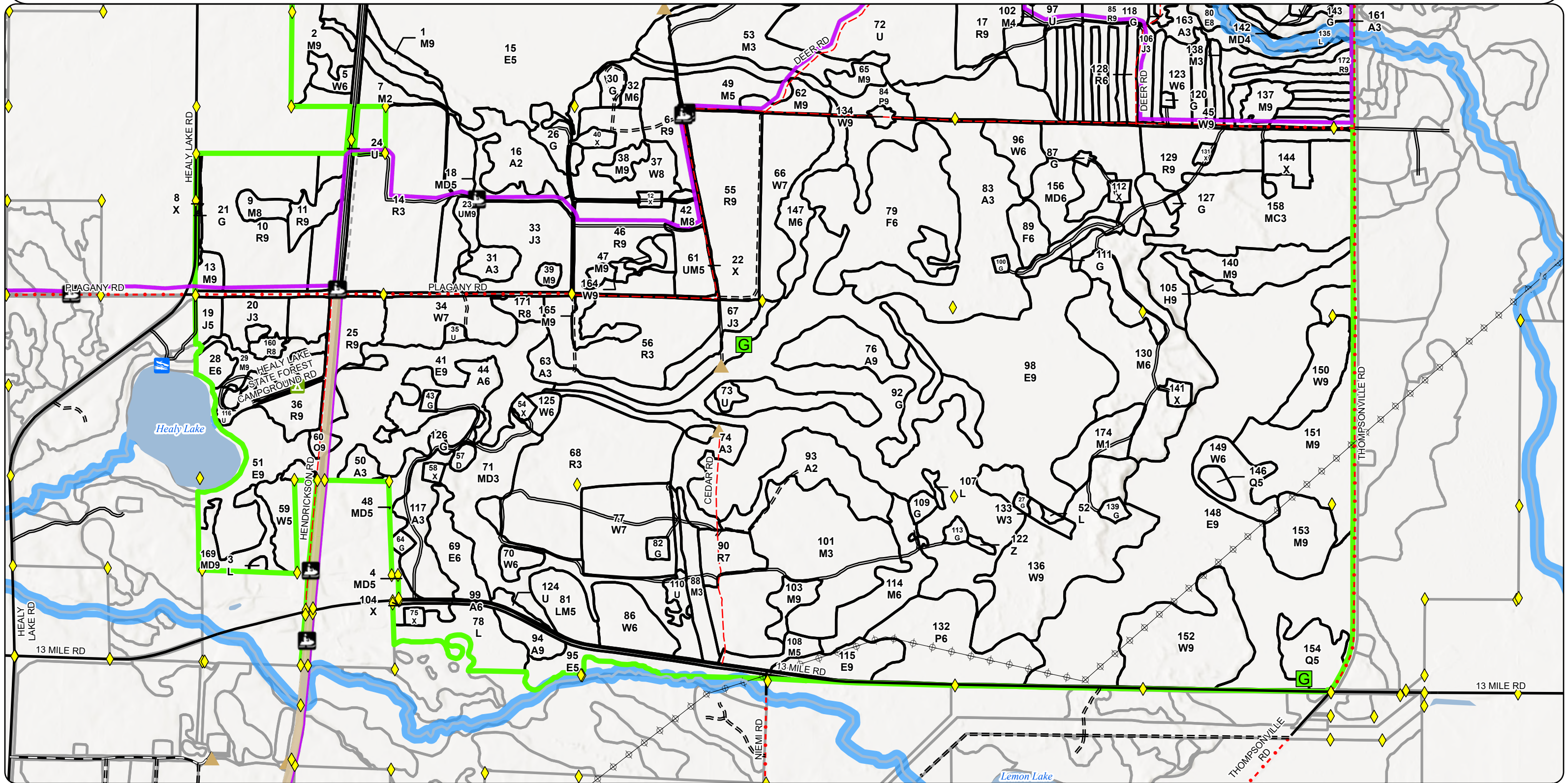
Lakes and Rivers

Electric

Compartment Boundary

Cold Water Streams

High Priority Trout Stream Buffer



Report 1 – Total Acres by Cover Type and Age Class



Age Class

	NonForest	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	97	152	0	0	0	89	0	0	0	0	0	0	0	0	0	0	0	336
Bare/Sparsely Vegetated	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24
Hemlock	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	2
Herbaceous Openland	49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	49
Jack Pine	0	0	10	98	0	0	0	0	0	0	0	0	0	0	0	0	0	5	113
Low-Density Trees	53	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	53
Lowland Aspen/Balsam Poplar	0	0	0	45	0	0	0	29	0	0	0	0	0	0	0	0	0	0	74
Lowland Conifers	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	16	19
Lowland Deciduous	0	0	0	0	0	0	281	21	254	0	15	292	47	0	0	0	0	0	909
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	0	0	0	15	0	0	0	0	0	15
Lowland Shrub	36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	36
Mixed Upland Deciduous	0	0	54	0	47	0	16	13	0	0	0	0	0	0	0	0	0	8	138
Natural Mixed Pines	0	0	87	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	87
Northern Hardwood	0	25	167	21	32	0	147	36	27	6	68	58	4	0	0	0	0	19	609
Oak	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	3
Red Pine	0	122	72	0	0	0	0	288	78	0	8	0	0	0	0	0	0	0	568
Treed Bog	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Upland Mixed Forest	0	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	11	18
Upland Shrub	99	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	99
Upland Spruce/Fir	0	0	0	0	0	0	0	84	0	0	0	0	0	0	0	0	0	0	84
Urban	35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	35
Water	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
White Pine	0	0	0	3	0	19	0	204	7	2	48	0	0	0	0	0	0	77	360
Total	300	244	542	167	82	19	533	675	366	18	139	350	66	0	0	0	3	136	3635



Report 2 – Treatment Summary

Traverse City Mgt. Unit
Year of Entry: 2028

Acres of Harvest

Compartment 38
Total Compartment Acres: 3,636

Commercial Harvest - 767
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	Oversky Removal	Salvage	Other	Total Acres
Aspen	79	0	0	0	0	0	0	0	0	79
Northern Hardwood	0	0	0	18	0	0	0	0	0	18
Red Pine	79	0	0	0	0	49	0	0	0	128
White Pine	0	0	0	22	0	0	0	0	0	22
Total	158	0	0	40	0	49	0	0	0	247

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	247	0	0	0	72	0	0	3	0	460
Next Step	0	0	79	0	0	158	277	0	0	586
Total	247	0	79	0	72	158	277	3	0	1046



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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Proposed Treatments:

6	61038006-Cut	14.5	42110 - Planted Red Pine	9	66	141-170	Harvest	Thinning	4211 - Planted Red Pine	Planting Record	No
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Prescription Thin stand from below. Focus on poor form and suppressed first then go for spacing. Take roughly one third of stand volume. Residual
Specs: Basal area target of 90 to 100.

Next Step
Treatments:

Acceptable
Regen:

Other This will be third thinning of this plantation.
Comment:

Site Condition:

Proposed Start Date: 10/01/2027

17	61038017-Cut	34.7	42110 - Planted Red Pine	9	65	171-200	Harvest	Thinning	4211 - Planted Red Pine	Planting Record	No
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Prescription Perform marked low thinning on stand. Mark poor for and suppressed first then mark for spacing. Target BA around 120.
Specs:

Next Step
Treatments:

Acceptable
Regen:

Other This will likely be last thinning before stand is restarted or converted. Add snow trail protection spec.
Comment:

Site Condition:

Proposed Start Date: 10/01/2027

18	61038018-Opening	8.2	4191 - Mixed Upland Deciduous with Conifer	5	26	51-80	Openings Mgmt.	Openings Mgmt.	3303 - Mixed Low Density Trees	Previous Inventory	No
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Prescription Selectively fell woody encroachment to maintain upland brush/grassland community. Leave scattered mast producing trees and shrubs
Specs: and/or conifers for wildlife food and cover. Could plant site appropriate native shrubs and/or mast producing trees for wil

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Site Condition:

Proposed Start Date: 10/01/2027



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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27	61038027-Opening	1.1	3105 - Mixed Upland Herbaceous	99			Openings Mgmt. Openings Mgmt.	3105 - Mixed Upland Herbaceous	Previous Inventory	No
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Prescription Plant to annual rye. Consider alternative seed mixes as soil conditions allow. Resulting forage should be suitable for early spring and late fall grazing. Specs: Periodic maintenance such as mowing, fertilization, reseeding, herbicide for exotics, and/or removal

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Site Condition:

Proposed Start Date: 10/01/2027

35	61038035-Opening	1.6	330 - Low-Density Trees	99			Openings Mgmt. Openings Mgmt.	3204 - Mast Producing Shrub	Previous Inventory	No
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Prescription Selectively fell woody encroachment to maintain upland brush/grassland community. Leave scattered mast producing trees and shrubs and/or conifers for wildlife food and cover. Specs: Plant site appropriate native shrubs and/or mast producing trees for wildlife

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Site Condition:

Proposed Start Date: 10/01/2027

44	61038044-Cut	19.6	4133 - Aspen, Mixed Pine	6	55	Unspecified	Harvest	Clearcut	4133 - Aspen, Mixed Pine	Planting Record	No
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Prescription Final Harvest stand leaving any hemlock and cedar. As well leave tree mark scattered white pine and white oak. (Ensure any potential legacy white pine are left) Specs: Scattered pine and oak left at 10 BA or less.

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

Acceptable Mixed aspen, red maple and white pine.
Regen:

Other Stand 43 can be used as landing, but have loggers check with well site company first. Restarting stand with mixed aspen, red maple and Comment: white pine objective. Add Grouse spec.

Site Condition:

Proposed Start Date: 10/01/2027



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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52 61038052-Other	0.9	6229 - Mixed Lowland Shrub	99			Other	Other Treatments - See Comments	629 - Mixed non-forested Wetland	Previous Inventory	No
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Prescription Specs: This site is a combination of moist soil and occasional ponded water. Monitor for invasives and could plant appropriate native shrubs and/or forbs.

Next Step Treatments:

Acceptable Regen:

Other Comment: Remove exotics as needed by best management techniques, such as hand pulling, herbicide, mechanical, or other.

Site Condition:

Proposed Start Date: 10/01/2027

55 61038055-Cut	49.6	42110 - Planted Red Pine	9	66	141-170	Harvest	Clearcut	4211 - Planted Red Pine	Planting Record	No
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Prescription Specs: Final Harvest. Cut all trees 1 inch in diameter and greater. Leave retention along edge at 3 percent of total acreage and map in MIFI.

Next Step Treatments: Pesticide, Aerial - Site Prep; Pesticide, Drone - Site Prep; Planting, Unfurrowed; Monitoring, Artificial Regen; Monitoring, Artificial Regen

Acceptable Regen: Planted Red Pine

Other Comment: Require chipping and low stumps. Re plant stand to red pine. Stand chosen to restart slightly early due to heavy understory and die back/stress out stems in overstory. Add snow trail protection spec.

Site Condition:

Proposed Start Date: 10/01/2027

61 61038061-Opening	11.1	4319 - Mixed Upland Forest	5	36	1-50	Openings Mgmt.	Openings Mgmt.	3303 - Mixed Low Density Trees	Previous Inventory	No
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Prescription Specs: Selectively 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 wil

Next Step Treatments:

Acceptable Regen:

Other Comment:

Site Condition:

Proposed Start Date: 10/01/2027

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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
72 61038072-Burn	72.2	3205 - Mixed Upland Shrub	99			Burn	Prescribed Burn	3105 - Mixed Upland Herbaceous	Previous Inventory	No
<u>Prescription</u> Burn on a rotational basis. The goal of prescribed burning is to restore and/or maintain a grassland/barrens ecosystem. The timing and frequency of the burns will be based on current needs of restoration such as reducing woody encroachment or promoting <u>Specs:</u> <u>Next Step</u> Openings Mgmt., Other - Specify <u>Treatments:</u> <u>Acceptable Regen:</u> <u>Other Comment:</u> WLD will need to target removal of small diameter cherry spp. regen. Brush hog multiple times in one growing season like mechanical treatment of bracken? Burn then brush hog in same season? Herbicide might be needed. Bracken is also an issue. Maybe p <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2027										
72 61038072-Opening	10.6	3205 - Mixed Upland Shrub	99			Openings Mgmt.	Openings Mgmt.	3204 - Mast Producing Shrub	Previous Inventory	No
<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 fo <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable Regen:</u> <u>Other Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2027										
72 61038072-Openingx	1.9	3205 - Mixed Upland Shrub	99			Openings Mgmt.	Openings Mgmt.	3204 - Mast Producing Shrub	Previous Inventory	No
<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 fo <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable Regen:</u> <u>Other Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2027										
72 61038072-Openingxx	4.3	3205 - Mixed Upland Shrub	99			Openings Mgmt.	Openings Mgmt.	330 - Low-Density Trees	Previous Inventory	No
<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 fo <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable Regen:</u> <u>Other Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2027										



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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72 61038072-Openingxxx	9.5	3205 - Mixed Upland Shrub	99			Openings Mgmt.	Openings Mgmt.	3303 - Mixed Low Density Trees	Previous Inventory	No
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Prescription Selectively 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 wil

Specs:

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Site Condition:

Proposed Start Date: 10/01/2027

76 61038076-Cut	59.2	4139 - Aspen, Mixed Deciduous	9	53	81-110	Harvest	Clearcut	4139 - Aspen, Mixed Deciduous	Planting Record	No
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Prescription Final harvest leave all conifer. As well leave area retention 3 to 5 percent of total acreage .

Specs:

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

Acceptable Aspen and red maple.
Regen:

Other Consider leaving far SE island as long term retention. Logistically this makes most sense. Add Grouse spec. Winter or dry condition harvest
Comment: only. Wood will need to be forwarded to adjacent upland areas, a few possibilities exist. Some road/ skid trail

Site Condition:

Proposed Start Date: 10/01/2027

92 61038092-Opening	4.4	3103 - Rubus-Fern	99			Openings Mgmt.	Openings Mgmt.	3105 - Mixed Upland Herbaceous	Previous Inventory	No
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Prescription This opening is a traditional wildlife planting. Plant to annual rye. Consider alternative seed mixes as soil conditions allow. Resulting forage should be suitable for early spring and late fall grazing. Periodic maintenance such as mowing, fertilizati

Specs:

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Site Condition:

Proposed Start Date: 10/01/2027

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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
96 61038096-Cut	22.0	42100 - Planted White Pine	6	66	141-170	Harvest	Seed Tree	42201 - Natural White Pine, Mixed Deciduous	Cutting Record	No
<u>Prescription</u> Seed tree harvest. Leave 10 to 30 BA of best quality/ largest diameter white pine. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> White pine, red maple, aspen . <u>Regen:</u> <u>Other</u> Objective of seed tree harvest of creating new age class of white pine/red maple and aspen. <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2027										
97 61038097-Opening	14.2	3303 - Mixed Low Density Trees	99			Openings Mgmt.	Openings Mgmt.	3204 - Mast Producing Shrub	Previous Inventory	No
<u>Prescription</u> Selectively 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 wil <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2027										
102 61038102-Opening	10.4	4112 - Maple, Beech, Cherry Association	4	39	1-50	Openings Mgmt.	Openings Mgmt.	3303 - Mixed Low Density Trees	Previous Inventory	No
<u>Prescription</u> Selectively 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 wil <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2027										



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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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107 61038107-Opening	1.4	622 - Lowland Shrub	99			Openings Mgmt.	Openings Mgmt.	6229 - Mixed Lowland Shrub	Previous Inventory	No
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Prescription This site is a combination of moist soil and occasional ponded water. Monitor for invasives and could plant appropriate native shrubs and/or forbs.

Next Step
Treatments:

Acceptable
Regen:

Other Remove exotics as needed by best management techniques, such as hand pulling, herbicide, mechanical, or other.
Comment:

Site Condition:

Proposed Start Date: 10/01/2027

109 61038109-Opening	2.7	3102 - Grass	99			Openings Mgmt.	Openings Mgmt.	3105 - Mixed Upland Herbaceous	Previous Inventory	No
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Prescription Plant to annual rye. Consider alternative seed mixes as soil conditions allow. Resulting forage should be suitable for early spring and late fall grazing. Periodic maintenance such as mowing, fertilization, reseeding, herbicide for exotics, and/or removal

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Site Condition:

Proposed Start Date: 10/01/2027

111 61038111-Opening	6.3	310 - Herbaceous Openland	99			Openings Mgmt.	Openings Mgmt.	3105 - Mixed Upland Herbaceous	Previous Inventory	No
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Prescription This opening is a traditional wildlife planting. Plant to annual rye. Consider alternative seed mixes as soil conditions allow. Resulting forage should be suitable for early spring and late fall grazing. Periodic maintenance such as mowing, fertilization

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Site Condition:

Proposed Start Date: 10/01/2027

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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
113 61038113-Opening	2.1	3102 - Grass	99			Openings Mgmt.	Openings Mgmt.	3105 - Mixed Upland Herbaceous	Previous Inventory	No
<u>Prescription</u> Plant to annual rye. Consider alternative seed mixes as soil conditions allow. Resulting forage should be suitable for early spring and late fall grazing. Periodic maintenance such as mowing, fertilization, reseeding, herbicide for exotics, and/or removal <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2027										
119 61038119-Opening	7.7	4117 - Mixed N. Hardwood - Pine	4	38	1-50	Openings Mgmt.	Openings Mgmt.	3303 - Mixed Low Density Trees	Previous Inventory	No
<u>Prescription</u> Selectively 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 wil <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2027										
122 61038122-Other	1.6	500 - Water	99			Other	Other Treatments - See Comments	6229 - Mixed Lowland Shrub	Previous Inventory	No
<u>Prescription</u> This site is a combination of moist soil and occasional ponded water. Monitor for invasives and could plant appropriate native shrubs and/or forbs. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> Remove exotics as needed by best management techniques, such as hand pulling, herbicide, mechanical, or other. <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2027										



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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129 61038129-Cut	29.5	42110 - Planted Red Pine	9	69	81-110	Harvest	Clearcut	4211 - Planted Red Pine	Planting Record	No
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Prescription Final harvest all trees 1 inch diameter and greater. Leave retention at 3 to 4 percent of total acreage along edge at forester discretion.

Specs:

Next Step Pesticide, Aerial - Site Prep; Pesticide, Drone - Site Prep; Planting, Unfurrowed; Monitoring, Artificial Regen; Monitoring, Artificial Regen
Treatments:

Acceptable Planted red pine free to grow.

Regen:

Other Pipelines in area may present issue with trenching. Flat plant would be best option.

Comment:

Site Condition:

Proposed Start Date: 10/01/2027

133 61038133-Opening	2.7	42200 - Natural White Pine	3	23	1-50	Openings Mgmt.	Openings Mgmt.	3302 - Low Density Conifer Trees	Previous Inventory	No
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Prescription Maintain as low density trees with scattered shrubs. Could plant native shrubs. This is part of an old rr grade that provides good foot access for hunters and other wildlife enthusiasts.

Specs:

Next Step
Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition:

Proposed Start Date: 10/01/2027

142 61038142-Opening	38.1	4191 - Mixed Upland Deciduous with Conifer	4	36	1-50	Openings Mgmt.	Openings Mgmt.	3303 - Mixed Low Density Trees	Previous Inventory	No
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Prescription Selectively 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 wil

Specs:

Next Step
Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition:

Proposed Start Date: 10/01/2027



Standard

Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
153 61038153-Cut	17.8	4112 - Maple, Beech, Cherry Association	9	106	81-110	Harvest	Seed Tree	4117 - Mixed N. Hardwood - Pine	Planting Record	No
<u>Prescription</u> Seed Tree stand leaving 10 to 20 BA of best quality seed source maple. Leave pine grove in southern edge of stand as long term retention. <u>Specs:</u> Protect understory as much as possible during harvest. <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Mixed hardwood with some white pine. <u>Regen:</u> <u>Other</u> Treatment shape adjusted to leave out long term retention. Winter or dry summer harvest. Consider bringing red line out to road. Understory <u>Comment:</u> protected will be future of stand along with what regenerated following harvest. Require short wood operation. <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2027										

Total Treatment 459.9
 Acreage Proposed:



Availability for Management

Total	Acres	Acres Avail	Acres	Dominant Site Conditions				
Acres	Available	With Condition	Not Available		2G	3A	3J	5E
318	310	0	8	Aspen				8
24	24	0	0	Bare/Sparsely Vegetated				
2	0	0	3	Hemlock		3		
49	49	0	0	Herbaceous Openland				
113	113	0	0	Jack Pine				
53	53	0	0	Low-Density Trees				
74	45	0	29	Lowland Aspen/Balsam Poplar	29			
19	0	0	19	Lowland Conifers	19			
910	0	0	910	Lowland Deciduous	880		30	
15	0	0	15	Lowland Mixed Forest	15			
36	36	0	0	Lowland Shrub				
137	137	0	0	Mixed Upland Deciduous				
87	87	0	0	Natural Mixed Pines				
592	584	0	8	Northern Hardwood				8
3	3	0	0	Oak				
439	423	0	15	Red Pine				15
2	2	0	0	Treed Bog				
18	18	0	0	Upland Mixed Forest				
99	99	0	0	Upland Shrub				
84	84	0	0	Upland Spruce/Fir				
35	35	0	0	Urban				
2	2	0	0	Water				
359	359	0	0	White Pine				
3,468	2,462		1,006	Total Forested Acres	942	3	30	32
	71%		29%	Relative Percent				

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

Site No.	Dominant Site Cond	Dominant Site Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable		2G: Too wet (sensitive soils, does not include access issues)	267	Unspecified	Unspecified	Unspecified	Unspecified
Comments:								

Report 4 – Site Conditions

Traverse City Mgt. Unit
Joe Ventimiglia: Examiner

Compartment: 38
Year of Entry: 2028



Stand was attempted to be cut in past but determined to be too wet. Keep eye on this one but overall too wet.							
2	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	15	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
3	Unavailable	5E: Long-Term Retention	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	38	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	241	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
9	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
10	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	15	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Buffer to creek no need for commercial management,							

Report 4 – Site Conditions

Traverse City Mgt. Unit
Joe Ventimiglia: Examiner

Compartment: 38
Year of Entry: 2028



12	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	15	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
13	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
14	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	348	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
17	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
18	Unavailable	3A: Conservation values incompatible with harvest at this time	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Hemlock dominate stand management unwarranted at this time. Somewhat unique stand.							
19	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	16	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Traverse City Mgt. Unit
Joe Ventimiglia: Examiner

Compartment: 38
Year of Entry: 2028



20	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Stand 153							
21	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Stand 117 LTR							
25	Unavailable	5E: Long-Term Retention	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Retention left along existing snowmobile trail and along corridor for potential snow trail reroute. Was not planted, does not have monitoring prescription placed on it.							
26	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Are representative of previous stocking and stand attributes for stand 101, prior to harvest last YOY.							
32	Unavailable	5E: Long-Term Retention	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Originally part of stand 71, north of 13 mile road and was left out of harvest area as long term retention. Small stand area, difficult to access because of deep ditch along county road, recommend maintaining retention site condition.							
33	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	15	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
35	Unavailable	5E: Long-Term Retention	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions



38	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
42	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: LTR for stand 34							
43	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
44	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
45	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Mgt. Unit

Compartment: #Type!

Year of Entry:



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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments



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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																						
7	4119 - Mixed Northern Hardwoods	Sapling Medium	10.9	25	1-50	N/A	Formally old grassy openings that have succeeded to hardwood over the decades.. Some mixed pine as well. Variable with pockets of small saplings to others approaching pole size. Widely scattered XL sugar maple present.																																																						
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Sugar Maple</td><td>50</td><td>Sapling/Pole</td><td>3</td><td>25</td></tr><tr><td>Sugar Maple</td><td>4</td><td>XLog/Log</td><td>20</td><td></td></tr><tr><td>Ironwood</td><td>10</td><td>Sapling/Pole</td><td>4</td><td></td></tr><tr><td>Black Cherry</td><td>14</td><td>Pole/Sapling</td><td>6</td><td></td></tr><tr><td>White Pine</td><td>10</td><td>Pole/Sapling</td><td>7</td><td></td></tr><tr><td>Red Maple</td><td>10</td><td>Pole/Sapling</td><td>5</td><td></td></tr><tr><td>Red Pine</td><td>2</td><td>Sapling/Pole</td><td>4</td><td></td></tr></table>								Canopy Species	% Cover	Size Class	DBH	Age	Sugar Maple	50	Sapling/Pole	3	25	Sugar Maple	4	XLog/Log	20		Ironwood	10	Sapling/Pole	4		Black Cherry	14	Pole/Sapling	6		White Pine	10	Pole/Sapling	7		Red Maple	10	Pole/Sapling	5		Red Pine	2	Sapling/Pole	4															
Canopy Species	% Cover	Size Class	DBH	Age																																																									
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8	110 - Low Intensity Urban	None	1.5			No																																																							
9	4112 - Maple, Beech, Cherry Association	Sawtimber Medium	5.2	95	51-80	N/A	Small low quality hardwood pocket that nicely breaks up larger red pine stand/area. Open grown hardwood species along with a small aspen clone. Sugar maple on west end with more red maple on east. Open pocket in middle filling in with red pine and a few jack pine.																																																						
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10	42110 - Planted Red Pine	Sawtimber Well	56.1	67	141-170	N/A	Stand planted in 1960. Stand was third row thinned in 1999. Stand marked thinned in 2019. Nice quality stand although a little small diameter for age. Limited regeneration for most part except some beech and cherry in south end. Die back pocket in north end along private.																																																						
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11	42210 - Natural Red Pine	Sawtimber Well	8.3	95	141-170	N/A	No planting records appears to be a small natural stand but not 100 percent certain. Stand is variable with open areas filling in with younger age class of red and jack pine. All jack pine was cut by spec in stand in 1998 appears all red pine was left.																																																						
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12	790 - Other Bare/Sparsely Vegetated	None	1.6				well site with tanks, pipe and other well site material present.																																																						



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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																						
13	4112 - Maple, Beech, Cherry Association	Sawtimber Well	4.4	110	51-80	N/A	Sugar maple dominant with beech, red maple and oak also present. Beech is a significant component throughout, some very large individuals present. Trace red pine saps in understory <5'. 1 larger hemlock on western edge, trace hemlock seedlings in this vicinity.																																																						
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14	42110 - Planted Red Pine	Sapling Well	71.8	11	Immature	N/A	Stand was final harvested in 2013. Trenched in 2013.Planted in 2015. And replanted in 2017. Retention left in form of buffer strips along snow trail and county road. (See site condition layer) Pocket also left along east west county road. Looks to be good seedling spacing/survival, minimal competition from hardwood saplings and jack pine volunteers. Stand was replanted in 2017, 3 year regen survey shows approximately 60-100% survival with areas of dense red pine volunteers as well. Very little deciduous regen competing with red pine FTG status. (old comment)																																																						
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15	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Medium	238.2	76	Unspecified	N/A	Large contiguous lowland mixed stand with limited reason or opportunity to attempt splitting stand. Significant variability with pockets of cattails/ alders to others more forested with lowland hardwood mixed with lowland conifers.																																																						
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16	4130 - Aspen	Sapling Medium	28.6	5	1-50	N/A	Stand final harvested in 2021, clearcut with individual trees reserved and all conifers. Stand came back primarily to aspen although some deer browse appears to be impacting regen. Overall upland although pockets of seasonally set areas along edges.																																																						
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17	42110 - Planted Red Pine	Sawtimber Well	34.7	65	171-200	N/A	Stand planted in 1961. Stand was third row thinned in 1999. Stand was marked thinned in 2009. North end of stand more broken by hardwood in overstory while south end is more solid pine. A few rows in SW corner appear to have been missed in 2009 thinning. Vein of good sugar maple regen in north end.																																										
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18	4191 - Mixed Upland Deciduous with Conifer	Poletimber Medium	8.2	26	51-80	N/A	Formally open stand that has filled in with mix of jack pine, white pine, aspen, cherry and red maple over the decades. Variable ages and structure as open area has filled in over years.																																										
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19	42220 - Natural Jack Pine	Poletimber Medium	5.2	35	1-50	N/A	Formally open area has filled in with mix of jack pine, red pine and white pine. A few oaks scattered as well.																																										
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20	42121 - Planted Jack Pine, Mixed Deciduous	Sapling Well	24.1	27	Unspecified	N/A	Stand was final harvested in 1998. Dense stand, some mortality in JP saplings. Hardwood presence is concentrated with a great deal along edges however a fair amount also exists in the interior of stand. Overall, the deciduous component/clumps are concentrated in the eastern 2/3 of the stand.																																										
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21	310 - Herbaceous Openland	None	1.4			No	ROW opening along county road.																																										
22	110 - Low Intensity Urban	None	20.2			No	Road network																																										



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																				
23	4319 - Mixed Upland Forest	Sawtimber Well	6.9	89	111-140	N/A	Small strip of mixed hardwood and pine that has been left over the years. Includes some red pine from former adjacent pine plantations along NW corner.																																																				
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24	3303 - Mixed Low Density Trees	None	24.1			No	Railroad grade from Kaleva to Thompsonville. As of 2025 plans to make part of non motorized rail trail and new snowmobile trail. Bridge at Bear creek being set at time of inventory. New Bridge installed in 2026.																																																				
25	42110 - Planted Red Pine	Sawtimber Well	22.6	76	81-110	N/A	Planted in 1950. Third row thinned in 1975. Stand was second thinned in 1999. Stand third thinned in 2008. Good quality pine with significant mixed understory developing .																																																				
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26	3105 - Mixed Upland Herbaceous	None	7.0				Well site in back active with gate.																																																				
27	3105 - Mixed Upland Herbaceous	None	1.1			No	Small opening.																																																				
28	6115 - Lowland Ash	Poletimber Well	5.5	65	51-80	N/A	Mixed lowland stand with black ash and red maple dominant. Yellow birch and hemlock are also scattered throughout with the latter being concentrated moreso along the edges of the stand. White pine are also present along SE edge of stand, some larger individuals present. one very large yellow birch >30" DBH is present along northern edge of stand, quite an impressive tree. High water table, standing water in much of the stand at time of inventory.																																																				
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																		
34	42101 - Planted White Pine, Mixed Deciduous	Sawtimber Poor	25.1	66	1-50	N/A	White pine planted in 1960. Stand was shelterwood/seed tree harvested in 2019. Small aspen regeneration cut included with stand in SW corner. Long term retention pockets left scattered as well as strip left along the road. (see site condition layer) Created two aged stand with scattered white pine and some maple over mixed maple/aspen/beech cherry/ white pine coming in. Some browse concerns but overall filling in.																																																		
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35	330 - Low-Density Trees	None	1.6			No	This is an old well site that is slowly filling in with native trees white pine and hardwood.																																																		
36	42110 - Planted Red Pine	Sawtimber Well	21.0	76	81-110	N/A	Stand planted in 1950. Third row thinned in 1975. Stand was second thinned in 1999. Stand thinned again in 2018. Appears dieback pocket in SW clearcut at that time. Stand holding some aesthetic value as entrance to campground as well as west end being in the campground. Die back pocket back back well to oak.																																																		
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37	42100 - Planted White Pine	Sawtimber Medium	26.7	65	1-50	N/A	Planted to red and white pine in 1961. Stand was shelterwood harvested in 2010. Left with two aged stand. With variable density planted white pine overstory and dense maple, white pine, cherry, aspen, red pine understory responding from harvest in 2010. White pine overstory higher in north end.																																																		
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38	4112 - Maple, Beech, Cherry Association	Sawtimber Well	4.8	106	81-110	N/A	Stand was thinned in 2009. Fair quality stand with even distribution of different species. some thick pockets of sub canopy with other pockets less dense. (old comment) Some nice quality sugar maple, red maple, and black cherry logs.																																																		
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MICHIGAN

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																				
44	4133 - Aspen, Mixed Pine	Poletimber Well	19.6	55	Unspecified	N/A	Poor quality aspen with significant white pine, red maple, red oak and cherry mixed in. Aspen gradually falling out. Stand used to have managed openings throughout but have been taken over by forest over the decades.																																																				
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45	42100 - Planted White Pine	Sawtimber Well	3.1	74	141-170	N/A	Planted in 1952. Small sliver of plated white pine with some hardwood mixed in.																																																				
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46	42110 - Planted Red Pine	Sawtimber Well	31.6	76	111-140	N/A	Stand was planted in 1950. Stand was third row thinned in 1988. Stand was marked thinned in 1999. Stand was marked thinned again in 2009. Nice quality stand at ideal spacing. Nice mixed understory developing in understory but hasn't fully taken over year.																																																				
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Red Pine</td><td>100</td><td>Log</td><td>15</td><td>76</td></tr></table>		Canopy Species	% Cover	Size Class	DBH	Age		Red Pine	100	Log	15	76	<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>White Pine</td><td>Medium</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr><tr><td>Red Maple</td><td>Medium</td><td>Variable</td><td>Variable</td></tr><tr><td>Red Pine</td><td>Medium</td><td>< 5 feet</td><td>< 5 feet</td></tr><tr><td>Beech</td><td>Medium</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr><tr><td>Sugar Maple</td><td>Low</td><td>Variable</td><td>Variable</td></tr></table>		Sub-Canopy Species	Density	Avg. Height	Size	White Pine	Medium	5 - 10 feet	5 - 10 feet	Red Maple	Medium	Variable	Variable	Red Pine	Medium	< 5 feet	< 5 feet	Beech	Medium	5 - 10 feet	5 - 10 feet	Sugar Maple	Low	Variable	Variable																					
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47	4112 - Maple, Beech, Cherry Association	Sawtimber Well	5.1	105	81-110	N/A	Stand was thinned in 2009.																																																				
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48	4199 - Other Mixed Upland Deciduous	Poletimber Medium	6.2	35	1-50	N/A	Former open/stand edge area that has filled in with mix of oak, red maple, cherry and aspen. As a result variable stand diameters and stocking.																																																				
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49	4112 - Maple, Beech, Cherry Association Poletimber Medium	15.2	36	1-50	N/A	Formally low density treed stand that has filled in over the decades to low stocked hardwood stand with some pine component working into understory.																																																														
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50	4139 - Aspen, Mixed Deciduous Sapling Well	4.6	15	Unspecified	N/A	Stand was final harvested in 2010 with all oak and white pine left. Created a two aged stand of mature oak and white pine over mixed aspen, red maple and cherry regeneration.																																																														
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51	6118 - Lowland Deciduous with Cedar Sawtimber Well	32.2	111	Unspecified	N/A	Mixed lowland deciduous with conifer particularly in south end. Variable stand. Upland along edges.																																																														
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52	6229 - Mixed Lowland Shrub	None	0.9		No	Lowland shrub opening.																																																														
53	4119 - Mixed Northern Hardwoods Sapling Well	70.0	16	Immature	N/A	Stand was final harvested in 2010. All conifer left as well as scattered green marked trees. Came back well to aspen, red maple and cherry some open pockets but overall forested. Not high quality timber area.																																																														
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Red Maple</td><td>42</td><td>Sapling/Pole</td><td>2</td><td>16</td></tr><tr><td>Black Cherry</td><td>35</td><td>Sapling/Pole</td><td>2</td><td></td></tr><tr><td>Quaking Aspen</td><td>15</td><td>Sapling</td><td>2</td><td></td></tr><tr><td>White Pine</td><td>8</td><td>Sapling/Pole</td><td>4</td><td></td></tr></table>		Canopy Species	% Cover	Size Class	DBH	Age	Red Maple	42	Sapling/Pole	2	16	Black Cherry	35	Sapling/Pole	2		Quaking Aspen	15	Sapling	2		White Pine	8	Sapling/Pole	4																																											
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54	790 - Other Bare/Sparsely Vegetated	None	1.7			Active site as of 2026.																																																														



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																											
55	42110 - Planted Red Pine	Sawtimber Well	49.6	66	141-170	N/A	Stand planted in 1960. Third row thinned in 1980s?Stand was second thinned in 2009. Stand is showing some signs of stress in spots and is broken by hardwood more then most of the plantations in this compartment. Thick beech, red maple understory had taken over understory.																																											
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56	42110 - Planted Red Pine	Sapling Well	49.6	5	Immature	N/A	Stand was final harvested and chipped in 2019.Stand was planted to red pine in 2020, very clean with little to no competition. Strip of trees left along road as well as LTR on south line(see site condition layer)2024 - Stand passed year 3 regeneration check on 9/11/2024. There are an estimated 903 TPA and stand is currently 100% free to grow at this time. 2022 Fall - - 10/25/2022 Stand's First Year Regen Survey was completed; Stand has an estimated 906 trees per acre and is 99% free to grow at this time. 2022 Spring- Stand was Planted to Red Pine 4/28/2022 2021 - Stand was site prep sprayed2020 - Stand was trenched to plant red pine																																											
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57	6224 - Treed Bog	None	2.1			No	Bog filling in with shite pine and some lowland spruce/fir.																																											
58	790 - Other Bare/Sparsely Vegetated	None	1.6				State Spingdale well 2-34.																																											
59	42200 - Natural White Pine	Poletimber Medium	10.7	35	1-50	N/A	Former open area that has seeded in well over the decades to primarily white pine although red pine, red oak, cherry, jack pine and red maple also present. White pine variable age classes overall small pole stand.																																											
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60	4123 - Red Oak	Sawtimber Well	2.8	88	81-110	N/A	Small upland stand that lies on both sides of rr grade. This stand consists of very good quality red oak along with white pine and red maple. The upland portion of stand forces adjacent e-type stands to narrow and form more of a stream forms with culverts in place to allow for flow. The water course flows right along the south edge of this stand. trace aspen and black cherry lying between road and rr grade. (old comment) black cherry and aspen around edges, standing water, broad-wing hawk scolded me several times, possibly nesting in the area.																																											
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MICHIGAN

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																													
61	4319 - Mixed Upland Forest	Poletimber Medium	11.1	36	1-50	N/A	Old open area that has filled in over the decades to mixed stand. Age and size classes variable as stand has filled in over the years. Without management stand will eventually become mixed pine dominate stand.																																													
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62	4112 - Maple, Beech, Cherry Association	Sawtimber Well	7.7	105	81-110	N/A	Small soft maple dominate hardwood stand with much variability in maple diameters and BA. Was likely a more open stand in past but understory maple beginning to make way into overstory and filling in old gaps.																																													
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Sugar Maple</td><td>5</td><td>Log</td><td>14</td><td></td><td>Witch Hazel</td><td>Low</td><td>10 - 20 feet</td><td>10 - 20 feet</td></tr><tr><td>Red Maple</td><td>72</td><td>Log/Pole/XLog</td><td>14</td><td>105</td><td>Beech</td><td>Low</td><td>Variable</td><td>Variable</td></tr><tr><td>Bigtooth Aspen</td><td>1</td><td>Log</td><td>12</td><td>67</td><td>White Pine</td><td>Low</td><td>< 5 feet</td><td>< 5 feet</td></tr><tr><td>Black Cherry</td><td>22</td><td>Log/XLog</td><td>15</td><td>105</td><td>Red Maple</td><td>Medium</td><td>Variable</td><td>Variable</td></tr></table>								Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	Sugar Maple	5	Log	14		Witch Hazel	Low	10 - 20 feet	10 - 20 feet	Red Maple	72	Log/Pole/XLog	14	105	Beech	Low	Variable	Variable	Bigtooth Aspen	1	Log	12	67	White Pine	Low	< 5 feet	< 5 feet	Black Cherry	22	Log/XLog	15	105	Red Maple	Medium	Variable	Variable
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63	4139 - Aspen, Mixed Deciduous	Sapling Well	20.5	7	Immature	N/A	Stand was final harvested in 2019 with all conifer left along with scattered green markedtrees . Came back to mix of aspen and red maple/cherry.																																													
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64	3102 - Grass	None	1.7				Old well site. No longer in use blocked off.																																													
65	4112 - Maple, Beech, Cherry Association	Sawtimber Well	5.7	86	111-140	N/A	Red maple dominate stand, this is long term retention for stand 53 final harvest.																																													
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66	42101 - Planted White Pine, Mixed Deciduous	Sawtimber Poor	31.3	65	1-50	N/A	Majority of stand planted in 1961. Stand seed tree harvested in 2020. A portion of stand was a hardwood stand prior but with sale it will be all one regenerating stand. As of 2025 inventory stand has struggled to regenerate. Some white pine coming in along with some red maple but deer browse seems to have really impacted stand. Overstory just enough to be considered forested but on the verge on not being enough.																																													
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
67	42220 - Natural Jack Pine	Sapling Well	9.9	15	Immature	N/A	Was a jack pine stand that was final harvested in 2010. Came back well to jack pine primarily but NE corner is more heavy to red maple and cherry. A few mature planted red pine left over in stand from adjacent stand 56.			
Canopy Species		% Cover	Size Class	DBH	Age					
Red Maple		15	Sapling	2	15					
Jack Pine		60	Sapling	2	15					
Quaking Aspen		8	Sapling	2						
Black Cherry		5	Sapling	1						
White Pine		5	Sapling	2						
Red Pine		5	Sapling	2						
Red Pine		2	Log	15						
68	42110 - Planted Red Pine	Sapling Well	72.7	5	Immature	N/A	Planted to red pine 2020, as of 2026 doing very well with little to no competition. 2024 - Stand passed year 3 regeneration check on 9/11/2024. There are an estimated 906 TPA and stand is currently 100% free to grow at this time. 2022 Fall - - 10/25/2022 Stand's First Year Regen Survey was completed; Stand has an estimated 881 trees per acre and is 99% free to grow at this time. 2022 Spring- Stand was Planted to Red Pine 4/29/20222021 - Stand was site prep sprayed 7/10/20212020 - Stand was trenched.2019 - Stand was final harvested under timber sale number 61-054-18 origin 1961.			
Canopy Species		% Cover	Size Class	DBH	Age					
Red Pine		100	Sapling	1	5					
69	6113 - Lowland Maple	Poletimber Well	15.8	60	Unspecified	N/A	Lowland stand with red maple dominant. Wet in many places with some hummocky areas of higher ground. Not desirable for management however as this area overall is quite wet. Some larger DBH red maple scattered throughout but overall pole size is the average.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Maple		83	Pole/Log	9	60	Red Maple		Low	Variable	Variable
White Pine		5	Log	14						
Black Ash		2	Pole	5						
Balsam Fir		5	Pole/Sapling	6						
Quaking Aspen		5	Pole/Log	8						
70	42100 - Planted White Pine	Poletimber Well	7.1	65	171-200	N/A	1961 plantings. Multi part white pine stand. Variable row alignment, most notably in northern piece. Aspen along with other deciduous species are relatively common throughout and evenly distributed.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Maple		5	Log/XLog	12		Red Maple		Low	5 - 10 feet	5 - 10 feet
Quaking Aspen		6	Pole/Log	9		Beech		Low	< 5 feet	< 5 feet
White Pine		85	Pole/Log	9	65					
Black Cherry		4	Log/Pole	10						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																						
71	4191 - Mixed Upland Deciduous with Conifer	Sapling Well	53.5	17	1-50	N/A	Stand was final harvested in 2009 with all conifer left. Retention left on southside of main road. Stand is growing well, dense stocking for the most part, with the exception of a few areas. There are pockets of heavy browse, mainly on the red maple sprouts. Some wet pockets throughout stand, mainly along edges. Balsa fir is concentrated in these locations along with trace spruce and occasional tamarack. Oak is very scattered.																																																						
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Balsam Fir	2	Sapling/Pole	4																																																										
72	3205 - Mixed Upland Shrub	None	99.1			Yes	Historically open area was commercially final harvested in 2010. RX Burned in 2015. West of Deer Road hydro-axed in 2017. East of Deer Road hydro-axed in 2019. Majority of stand was burned again in 2022.																																																						
							Still open as of 2025 inventory although filling in with cherry, especially on west end. Illegal two track created in east end from old fire line.																																																						
73	330 - Low-Density Trees	None	2.6			No	Low density tree area slowly filling in with mixed pine and some hardwood.																																																						
74	4139 - Aspen, Mixed Deciduous	Sapling Well	21.2	13	Immature	N/A	Regen doing well throughout this stand with aspen and red maple dominant. Cherry present in overstory along with scattered pockets of cherry regen throughout stand area. Trace cedar present, pole sized. Pockets of high water table, mostly in eastern lobe of stand. (old comment) Narrow stand along transition between upland and lowland.																																																						
<table> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> <tr> <td>Bigtooth Aspen</td> <td>56</td> <td>Sapling</td> <td>2</td> <td>13</td> </tr> <tr> <td>Black Cherry</td> <td>10</td> <td>Sapling</td> <td>3</td> <td></td> </tr> <tr> <td>Red Maple</td> <td>30</td> <td>Sapling</td> <td>2</td> <td></td> </tr> <tr> <td>White Pine</td> <td>3</td> <td>Sapling/Pole</td> <td>4</td> <td></td> </tr> <tr> <td>Black Cherry</td> <td>1</td> <td>Log</td> <td>14</td> <td></td> </tr> </table>								Canopy Species	% Cover	Size Class	DBH	Age	Bigtooth Aspen	56	Sapling	2	13	Black Cherry	10	Sapling	3		Red Maple	30	Sapling	2		White Pine	3	Sapling/Pole	4		Black Cherry	1	Log	14																									
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75	790 - Other Bare/Sparsely Vegetated	None	1.5				Active well in 2025.																																																						
76	4139 - Aspen, Mixed Deciduous	Sawtimber Well	59.2	53	81-110	N/A	Origin 1973. Multipart aspen / red maple stand. Lower quality stand in general with aspen showing signs of age and falling out in spots. Maple stem of variable diameter.																																																						
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																			
83	4133 - Aspen, Mixed Pine	Sapling Well	99.2	15	1-50	N/A	Stand was final harvested in 2010 with all conifer left. Aspen and white pine came back well with scattered mature white pine left in groves concentrated in north end. Pocket of long term retention on north side of plagany rd. Aspen and WP are advancing well, stand developing into nice mixture with larger WP present throughout adding structural diversity. Occasional high water table influence. (old comment) wintergreen, blueberry, bracken fern, hummocky, but not lowland, relatively light stocking, some spots may be seasonally wet, traces of balsam fir, white spruce, numerous old white pine stumps,																																			
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Paper Birch	1	Sapling	2																																							
84	6112 - Lowland Aspen	Sawtimber Well	28.7	60	51-80	N/A	Seasonally wet stand that necks down to form a drain for large swamp to NE. (Unclear whether this is natural feature or old man made ditch.)Aspen still primary overstory but falling out and converting to red maple stand.																																			
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Black Cherry	Low	Variable	Variable																																							
85	42110 - Planted Red Pine	Sawtimber Well	39.7	65	111-140	N/A	Stand planted in 1961. Stand was third row thinned in 1999. Stand was marked thinned in 2009. Stand thinned again in 2018. Good spacing on residual pine with a few cherry and maple breaking up canopy in spots. Thick red maple understory created from last thinning.																																			
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Beech	Medium	5 - 10 feet	5 - 10 feet																																							
86	42101 - Planted White Pine, Mixed Deciduous	Poletimber Well	18.4	66	111-140	N/A	Planted in 1960. Strand was row thinned in 1999 with all aspen and some hardwood cut at that time as well.																																			
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Quaking Aspen	Low	5 - 10 feet	5 - 10 feet																																							
87	310 - Herbaceous Openland	None	0.8				Well site not clear if still active?																																			





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																			
88	4113 - R.Maple, Conifer	Sapling Well	11.5	16	Immature	N/A	Former jack pine stand that was final harvested in 2010. Upland mixed stand with naturally seeded jack pine throughout. Red maple is most dominant with some slightly larger saplings present in small pockets. Black cherry is also well represented throughout, aspen concentrated along western edge.																																			
<table> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> <tr> <td>Red Maple</td> <td>52</td> <td>Sapling</td> <td>1</td> <td>16</td> </tr> <tr> <td>Black Cherry</td> <td>15</td> <td>Sapling</td> <td>2</td> <td></td> </tr> <tr> <td>Jack Pine</td> <td>22</td> <td>Sapling</td> <td>2</td> <td></td> </tr> <tr> <td>Quaking Aspen</td> <td>7</td> <td>Sapling</td> <td>1</td> <td></td> </tr> <tr> <td>White Pine</td> <td>2</td> <td>Sapling</td> <td>2</td> <td></td> </tr> <tr> <td>Red Pine</td> <td>2</td> <td>Log</td> <td>13</td> <td>65</td> </tr> </table>								Canopy Species	% Cover	Size Class	DBH	Age	Red Maple	52	Sapling	1	16	Black Cherry	15	Sapling	2		Jack Pine	22	Sapling	2		Quaking Aspen	7	Sapling	1		White Pine	2	Sapling	2		Red Pine	2	Log	13	65
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White Pine	2	Sapling	2																																							
Red Pine	2	Log	13	65																																						
89	42311 - Planted Spruce, Mixed Deciduous	Poletimber Well	15.5	61	81-110	N/A	Planted in 1965. Hummocky ground in places with pockets of standing water. Spruce plantation is dense in places where deciduous species did not gain a foothold. Spruce is fairly descent quality, providing good wildlife habitat and thermal cover. Lots of deer activity at time of inventory and also quite a bit of grouse activity throughout.																																			
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90	42110 - Planted Red Pine	Sawtimber Poor	11.7	65	1-50	N/A	Planted in 1961. Stand third row thinned in 2000. Stand was seed tree cut in 2010. Created two aged stand. Stand was a red pine plantation that was seed tree harvested and now the regeneration has become nearly fully stocked with red maple and black cherry dominant. Still featured red pine as the major canopy species however almost not enough to be consider canopy species.																																			
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92	3103 - Rubus-Fern	None	4.4			No	Daisy fleabane, golden rod, goats beard, St. John's wort, spotted knapweed, various forbs, vetch, sedges. White pine mangled by bear.																																			
93	4139 - Aspen, Mixed Deciduous	Sapling Medium	27.9	5		N/A	Stand harvested in 2021, retention scattered trees as well as all conifers. Stand did not come back well, especially in western edge. Deer browse heavy.																																			
<table> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> <tr> <td>Red Maple</td> <td>38</td> <td>Sapling</td> <td>1</td> <td>5</td> </tr> <tr> <td>Quaking Aspen</td> <td>55</td> <td>Sapling</td> <td>1</td> <td>5</td> </tr> <tr> <td>Black Cherry</td> <td>1</td> <td>Log</td> <td>12</td> <td></td> </tr> <tr> <td>White Pine</td> <td>5</td> <td>Sapling</td> <td>1</td> <td></td> </tr> <tr> <td>Red Maple</td> <td>1</td> <td>Log</td> <td>14</td> <td></td> </tr> </table>								Canopy Species	% Cover	Size Class	DBH	Age	Red Maple	38	Sapling	1	5	Quaking Aspen	55	Sapling	1	5	Black Cherry	1	Log	12		White Pine	5	Sapling	1		Red Maple	1	Log	14						
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																	
99	4139 - Aspen, Mixed Deciduous	Poletimber Well	2.9	57	81-110	N/A	Very small stand left due to small size. Aspen slowly falling out and stand converting to more red maple dominate stand.																																																	
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100	3102 - Grass	None	1.0				Well site appears to be no longer in use.																																																	
101	4117 - Mixed N. Hardwood - Pine	Sapling Well	85.8	16	1-50	N/A	Origin of stand was white pine planting 1960. Stand was light seed tree harvested in 2010. White pine seed tree harvest resulted in mixed regen of red maple, white pine, cherry and some aspen, red pine, jack pine .																																																	
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102	4112 - Maple, Beech, Cherry Association	Poletimber Poor	10.4	39	1-50	N/A	Former old open area filling in with red maple and cherry. Some understory pine. Witch hazel thick in understory. Variable structure and age as stand has filled in over decades.																																																	
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Red Maple</td><td>50</td><td>Pole/Sap/Log</td><td>8</td><td>39</td></tr><tr><td>White Pine</td><td>5</td><td>Pole/Sapling</td><td>6</td><td></td></tr><tr><td>Black Cherry</td><td>40</td><td>Pole/Log/XLog</td><td>9</td><td></td></tr><tr><td>Quaking Aspen</td><td>5</td><td>Pole</td><td>8</td><td></td></tr></table>		Canopy Species	% Cover	Size Class	DBH	Age		Red Maple	50	Pole/Sap/Log	8	39	White Pine	5	Pole/Sapling	6		Black Cherry	40	Pole/Log/XLog	9		Quaking Aspen	5	Pole	8		<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>White Pine</td><td>Low</td><td>Variable</td><td>Variable</td></tr><tr><td>Witch Hazel</td><td>High</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr></table>				Sub-Canopy Species	Density	Avg. Height	Size	White Pine	Low	Variable	Variable	Witch Hazel	High	5 - 10 feet	5 - 10 feet													
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103	4116 - Mixed N. Hardwood - Aspen	Sawtimber Well	7.1	51	81-110	N/A	Small stand of mixed hardwood with aspen component.																																																	
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Beech	Low	5 - 10 feet	5 - 10 feet																																																					
104	110 - Low Intensity Urban	None	13.0			No																																																		



MICHIGAN

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																	
105	42350 - Upland Hemlock	Sawtimber Well	2.5	150	111-140	N/A	Small grove of hemlock and XL white pine.																																	
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106	42220 - Natural Jack Pine	Sapling Well	27.5	27	Unspecified	N/A	Old jack pine strips that were final harvested in 1998. Stand still not a pole size overall likely due to tight spacing of natural jack pine regen.Fully stocked jack pine stand, black cherry saps and overstory individuals present throughout in descent numbers.																																	
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107	622 - Lowland Shrub	None	1.4			No																																		
108	4113 - R.Maple, Conifer	Poletimber Medium	6.7	35	1-50	N/A	Former low density trees, unmanaged area that has filled in over decades to mix of white pine, red maple and cherry.																																	
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Sub-Canopy Species	Density	Avg. Height	Size																																					
White Pine	Medium	Variable	Variable																																					
109	3102 - Grass	None	2.7				Nice component of grass here. Old well site?																																	
110	330 - Low-Density Trees	None	3.8			No	Low density trees opening.																																	
111	310 - Herbaceous Openland	None	6.3			No	Appears to be old wildlife managed opening that has not been maintained in sometime. Some trees filling in along edges.																																	
112	790 - Other Bare/Sparsely Vegetated	None	2.0				State Springdale well 3-25. Active in 2025.																																	
113	3102 - Grass	None	2.1			No	Updated stand not "managed oil/gas". SWEPI is not responsible for any additional surfacae restoration.																																	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																						
114	4116 - Mixed N. Hardwood - Aspen	Poletimber Well	23.7	54	111-140	N/A	Origin from early to mid 1970s final harvest. Upland overall but some lowland character in north and along east edge. Red maple dominate stand with aspen in processes of falling out of most of stand although component hanging on. Red maple variable with some small log stems but overall pole stand.																																						
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Red Maple</td><td>55</td><td>Pole/Log</td><td>9</td><td>54</td></tr><tr><td>Quaking Aspen</td><td>22</td><td>Log</td><td>13</td><td>54</td></tr><tr><td>White Pine</td><td>13</td><td>Log/XLog</td><td>16</td><td></td></tr><tr><td>Black Cherry</td><td>10</td><td>Log</td><td>12</td><td></td></tr></table>		Canopy Species	% Cover	Size Class	DBH	Age		Red Maple	55	Pole/Log	9	54	Quaking Aspen	22	Log	13	54	White Pine	13	Log/XLog	16		Black Cherry	10	Log	12		<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Red Maple</td><td>Low</td><td>Variable</td><td>Variable</td></tr><tr><td>Beech</td><td>Low</td><td>< 5 feet</td><td>< 5 feet</td></tr><tr><td>White Pine</td><td>Low</td><td>< 5 feet</td><td>< 5 feet</td></tr></table>		Sub-Canopy Species	Density	Avg. Height	Size	Red Maple	Low	Variable	Variable	Beech	Low	< 5 feet	< 5 feet	White Pine	Low	< 5 feet	< 5 feet
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115	6113 - Lowland Maple	Sawtimber Well	15.1	114	81-110	N/A	Lowland red maple stand with flow/standing water draining to the west eventually joining lemon creek. Some spruce/fir along the eastern edge of stand, adjacent to stand 132, along with more concentrated aspen.																																						
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Red Maple</td><td>93</td><td>Log</td><td>14</td><td>114</td></tr><tr><td>Quaking Aspen</td><td>5</td><td>Pole/Log</td><td>8</td><td></td></tr><tr><td>White Pine</td><td>2</td><td>Log/Pole</td><td>12</td><td></td></tr></table>		Canopy Species	% Cover	Size Class	DBH	Age		Red Maple	93	Log	14	114	Quaking Aspen	5	Pole/Log	8		White Pine	2	Log/Pole	12		<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Red Maple</td><td>High</td><td>Variable</td><td>Variable</td></tr></table>		Sub-Canopy Species	Density	Avg. Height	Size	Red Maple	High	Variable	Variable													
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116	330 - Low-Density Trees	None	4.1			Yes	Healy Lake camp ground managed by township. Scattered trees, fire pits and camp sites throughout .																																						
117	4130 - Aspen	Sapling Well	19.4	6	1-50	N/A	Stand was final harvested in 2020. All conifer left along with red oak scattered. Came back well to aspen and red maple/cherry.																																						
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Quaking Aspen</td><td>60</td><td>Sapling</td><td>1</td><td>6</td></tr><tr><td>Black Cherry</td><td>10</td><td>Sapling/Pole</td><td>1</td><td></td></tr><tr><td>Red Maple</td><td>10</td><td>Sapling</td><td>1</td><td></td></tr><tr><td>Red Oak</td><td>10</td><td>Log/Pole</td><td>12</td><td></td></tr><tr><td>White Pine</td><td>10</td><td>Log/XLog</td><td>14</td><td>85</td></tr></table>		Canopy Species	% Cover	Size Class	DBH	Age		Quaking Aspen	60	Sapling	1	6	Black Cherry	10	Sapling/Pole	1		Red Maple	10	Sapling	1		Red Oak	10	Log/Pole	12		White Pine	10	Log/XLog	14	85													
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118	310 - Herbaceous Openland	None	4.7				Reclaim to CSG. Old well site that appears to have had some remediation work.																																						
119	4117 - Mixed N. Hardwood - Pine	Poletimber Poor	7.7	38	1-50	N/A	Formally open stand that has filled in with mix of red maple, cherry, and white pine. Variability in size and diameter as stand has filled in over decades.																																						
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Red Maple</td><td>33</td><td>Sapling/Pole/Log</td><td>3</td><td></td></tr><tr><td>White Pine</td><td>22</td><td>Pole/Sap/Log</td><td>9</td><td></td></tr><tr><td>Black Cherry</td><td>40</td><td>Pole/Log</td><td>8</td><td>38</td></tr><tr><td>Red Pine</td><td>5</td><td>Pole/Sapling</td><td>5</td><td></td></tr></table>		Canopy Species	% Cover	Size Class	DBH	Age		Red Maple	33	Sapling/Pole/Log	3		White Pine	22	Pole/Sap/Log	9		Black Cherry	40	Pole/Log	8	38	Red Pine	5	Pole/Sapling	5		<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Witch Hazel</td><td>Medium</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr></table>		Sub-Canopy Species	Density	Avg. Height	Size	Witch Hazel	Medium	5 - 10 feet	5 - 10 feet								
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120	3102 - Grass	None	0.8				Well site.																																						
121	310 - Herbaceous Openland	None	1.9				Old well site.																																						
122	500 - Water	None	1.6			No	Appear to be man made dug areas maybe for when sell pads constructed years ago. during dry times water may drain.																																						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																		
123	42100 - Planted White Pine	Poletimber Well	10.3	66	111-140	N/A	Planted in 1960. Stand was row thinned (take 2 leave 2 pattern) in 2020. Hardwood removed for most part as well in 2020. Rows were not well defined so producer did the best they could to maintain row pattern.																																																		
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>White Pine</td><td>85</td><td>Pole/Log</td><td>9</td><td>66</td></tr><tr><td>Black Cherry</td><td>12</td><td>Log</td><td>14</td><td></td></tr><tr><td>Sugar Maple</td><td>3</td><td>Log/Pole</td><td>12</td><td></td></tr></table>		Canopy Species	% Cover	Size Class	DBH	Age		White Pine	85	Pole/Log	9	66	Black Cherry	12	Log	14		Sugar Maple	3	Log/Pole	12		<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Red Maple</td><td>Medium</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr></table>		Sub-Canopy Species	Density	Avg. Height	Size	Red Maple	Medium	5 - 10 feet	5 - 10 feet																									
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124	330 - Low-Density Trees	None	2.3			No	Grassy open area some trees filling in around edges.																																																		
125	42100 - Planted White Pine	Poletimber Well	4.7	66	171-200	N/A	White pine planted in 1961. Never thinned, rows present but going in different directions little to no understory development.																																																		
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Red Maple</td><td>1</td><td>Log/Pole</td><td>10</td><td></td></tr><tr><td>Quaking Aspen</td><td>1</td><td>Pole</td><td>9</td><td></td></tr><tr><td>White Pine</td><td>97</td><td>Pole/Log</td><td>9</td><td>66</td></tr><tr><td>Black Cherry</td><td>1</td><td>Log/Pole</td><td>10</td><td></td></tr></table>		Canopy Species	% Cover	Size Class	DBH	Age		Red Maple	1	Log/Pole	10		Quaking Aspen	1	Pole	9		White Pine	97	Pole/Log	9	66	Black Cherry	1	Log/Pole	10																															
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Black Cherry	1	Log/Pole	10																																																						
126	310 - Herbaceous Openland	None	1.1			No	Old wildlife openings no longer maintained.																																																		
127	3102 - Grass	None	1.0				Well site appears no longer active.																																																		
128	42110 - Planted Red Pine	Poletimber Well	22.6	69	111-140	N/A	Planted in 1957. Third row thinned in 1998. Stand second thinned in 2020. Limited regen stand just getting into log size.																																																		
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129	42110 - Planted Red Pine	Sawtimber Well	29.5	69	81-110	N/A	Stand was planted in 1957. Stand was third row thinned in 1988. Stand was second thinned in 1999. Stand thinned again in 2010. 2010 was heavy thinning that resulted in evenly spaced log sized red pine and also created a flush of red maple and cherry regeneration. Canopy broken in spots by poor quality cherry and red maple.																																																		
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MICHIGAN

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																															
130	4119 - Mixed Northern Hardwoods	Poletimber Well	66.1	53	81-110	N/A	Stand origin appears to be 1973. Mostly upland ridge of red maple, cherry and white pine. Aspen largely has fallen out. Stand 174 was final harvested of this parent stand. White pine scattered but also present in small groves. Stand more open where it necks down but otherwise well stocked.																																															
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131	790 - Other Bare/Sparsely Vegetated	None	1.4			No	Active well as of 2026.																																															
132	6112 - Lowland Aspen	Poletimber Well	44.8	27	51-80	N/A	Stand was final harvested in 1998. with all white pine and cedar left. Was a mixed red maple/aspen stand prior to harvest. Seasonally wet stand came back to mix of red maple/aspen. Some upland areas in stand but overall appears wet.																																															
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133	42200 - Natural White Pine	Sapling Well	2.7	23	1-50	N/A	Old open area that has filled in with white pine over the decades.																																															
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134	42200 - Natural White Pine	Sawtimber Well	1.8	84	81-110	N/A	Small grove of mature white pine with a few aspen and red maple. Very small stand but worth noting separately due to lowland around and mature white pine.																																															
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135	6220 - Alder/Willow	None	11.7			No	Alder buffer to creek.																																															
136	42200 - Natural White Pine	Sawtimber Well	66.1	80	81-110	N/A	Overall upland some low areas run through stand. Some old remnant pine stumps noted, no evidence or recent management. White pine is fair quality with multiple size classes present, as well as multi-aged. Some hummocky ground present within stand, pockets of high water table, most notably along edges but also some wet pockets in interior of stand. Southern portion of stand more pole size class than north. Some legacy trees scattered.																																															
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137	4112 - Maple, Beech, Cherry Association	Sawtimber Well	7.0	76	111-140	N/A	Small soft maple/cherry stand with small components of white pine from adjacent plantation. Average quality with cherry in rough shape in stand.																																																										
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138	4113 - R.Maple, Conifer	Sapling Well	21.1	27	1-50	N/A	Stand was final harvested in 1998 with all hardwood left. Was formally jack pine.This created a two aged stand with areas of stand having a mature hardwood structure and others being mix of jack pine and red maple regeneration from 1998 harvest. Mixed stand, variable size and stocking along with mixed species composition throughout. Trace white pine scattered throughout, some ironwood regen present as well.																																																										
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139	3102 - Grass	None	2.2				Former well site, no activity as of 2026.																																																										
140	4112 - Maple, Beech, Cherry Association	Sawtimber Well	38.8	96	111-140	N/A	Primarily upland ridge of soft maple with scattered log/XL white pine. Aspen has fallen out for most part with a few stems remaining. Log stand over all but some pockets of stand are just pole size, this is likely areas where aspen fell out and maple filled in.																																																										
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141	790 - Other Bare/Sparsely Vegetated	None	2.7				Active well site as of 2025.																																																										
142	4191 - Mixed Upland Deciduous with Conifer	Poletimber Poor	38.1	36	1-50	N/A	Stand was commercially final harvested in 2011 with all conifer left. Formal opening filling in over decades. Stand more forested and more pine in west end. Honeysuckle thick in stand. Difficulty to pin down aged with multiple age and size classes in white pine created from past management and natural succession. Old WILDLIFE COMMENT 2006- Comment- Found scattered cladonia, trout lily, lycopodia, and occasional juneberry sapling. Old stumps. Turkey habitat project sign. Possible planting of honeysuckle. Scattered aspen between bluff down to Third Creek and 2-track around perimeter of stand.																																																										
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143	3102 - Grass	None	1.5				Well site , no longer in use?																																																										









Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
164	42100 - Planted White Pine	Sawtimber Well	4.2	76	141-170	N/A	Stand planted in 1950. Small strip of unmanaged planted white pine. Planation variable and broken in spots.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
White Pine	95	Log/Pole	11	76	Beech	Low		5 - 10 feet	5 - 10 feet
Red Maple	3	Log	12						
Black Cherry	2	Log	12						
165	4117 - Mixed N. Hardwood - Pine	Sawtimber Well	5.7	101	81-110	N/A	Mixed planted pine and lower quality hardwood that was left in peninsula. Providing a nice visual break from recent red pine restart. Pine was planted in 1960.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Maple	47	Log	14	101	Beech	Low		5 - 10 feet	5 - 10 feet
Black Cherry	10	Log	13		White Pine	Low		Variable	Variable
Sugar Maple	5	Log/Pole	12		Sugar Maple	Low		>20 feet	>20 feet
Red Pine	38	Log/Pole	12		Red Maple	Low		Variable	Variable
169	4199 - Other Mixed Upland Deciduous	Sawtimber Well	13.0	65	81-110	N/A	Heavily mixed oddly shaped ridge of aspen, oak, red maple, white pine. Upland stand although some lowland character on edges. Aspen on its way out but holding on in pockets.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Quaking Aspen	35	Log/Pole	12	51	Red Maple	Medium		10 - 20 feet	10 - 20 feet
Red Maple	40	Log/Pole	13	65	Beech	Low		5 - 10 feet	5 - 10 feet
Red Oak	5	Log/Pole	14		White Pine	Low		5 - 10 feet	5 - 10 feet
White Pine	10	Log/Pole/XLog	16						
Black Cherry	4	Log	13						
Northern White Cedar	2	Log/Pole	13						
Hemlock	2	Log	15						
Beech	2	Log/Pole	13						
171	42110 - Planted Red Pine	Sawtimber Medium	4.6	65	1-50	N/A	Planted in 1961. Stand was third row thinned in 1999. Seed tree/shelterwood harvested in 2019. Well spaced red pine with mixed red maple, white pine understory developing. Some deer browse on maple but overall coming in ok.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Maple	5	XLog/Log	18		Black Cherry	Low		Variable	Variable
Red Pine	95	Log	13	65	Beech	Medium		5 - 10 feet	5 - 10 feet
					Red Maple	Medium		5 - 10 feet	5 - 10 feet
					White Pine	Medium		5 - 10 feet	5 - 10 feet
172	42110 - Planted Red Pine	Sawtimber Well	24.4	69	111-140	N/A	Planted in 1957. Third row thinned in 1988. Stand was second thinned in 1999 with exception of two western vertical strips(these were never second thinned)Old holdover strip planation with significant red maple understory development in areas. One die back pocket in NE strip but otherwise holding together ok..		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Pine	90	Log/Pole	11	69	Black Cherry	Low		5 - 10 feet	5 - 10 feet
Red Maple	5	Log/Pole	12		White Pine	Low		Variable	Variable
Black Cherry	5	Log/Pole	12		Red Maple	Medium		5 - 10 feet	5 - 10 feet
					Red Pine	Low		Variable	Variable



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
174	4116 - Mixed N. Hardwood - Aspen	Sapling Poor	25.4	4	1-50	N/A	Stand was final harvested in 2022. With all conifer left.
Canopy Species		% Cover	Size Class	DBH	Age		
Red Maple		55	Sapling/Pole	1	4		
Quaking Aspen		28	Sapling	1			
Black Cherry		9	Sapling/Pole	1			
White Pine		8	Pole/Sap/Log	8			