

Compartment Review Presentation

Newberry Forest Management Unit

Compartment 42090

Entry Year: 2027

Acreage: 3,246

County: Luce

Management Area: Grand Marais Moraine Complex

Stand Examiner: Matt Payment

Legal Description:

T47N R11W Sections 23-26, 35 & 36

Identified Planning Goals:

The overriding goal is to maintain or improve the forest health, productivity and diversity of the area. Treatments prescribed will help ensure the sustainability of the forest resource and continue to enhance the quality of the wildlife habitat, while also sustaining the level of recreation use in the area. Aspen and hardwood management will continue with the current sustainable level of management, promoting an array of both age class and structural diversity in the cover types. Harvest treatments will be increased in red pine stands which are silviculturally ready for management. Red pine stands will be burned, and planted to red pine, and released as necessary. Management of a few natural white pine stands will take place. Prescribed burning will facilitate opening maintenance for wildlife considerations.

Soil and topography:

The predominant soil type of the compartment is Kalkaska sand, an outwash sand, is also found throughout much of the compartment. A lesser component of Liminga-Alcona soil complex, a fine sandy loam complex, also occurs. Cover types found on these soil types include overwhelmingly aspen, natural white pine stands and large grass opening complexes. Northern hardwood stand also make up a substantial percentage of the cover types on these sandy soils. Red pine plantations and jack pine plantations are also present. Small pockets of lower ground consisting of bogs and treed bogs are scattered across the compartment. Wallace sand is found along the Silver Creek corridor supporting white pine and upland fir cover types. The overall topography of the compartment is level to slightly rolling. An increase in topographical change is evident in the southwestern corner of the compartment.

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

The majority of the compartment is comprised of one large contiguous block of State land, with a few small private in holdings near Kelly Lake and Spincich Lake. State land borders the compartment to the south, west and north, while a mixture of State land and private land borders to the east. Development in and around the compartment is low to moderate due to the large amount of State land in the vicinity. Several small camps are located within the compartment boundary. The main types of land use in the area are hunting, ORV and snowmobile riding, and fishing the stocked trout ponds.

Unique Natural Features:

One occurrence in this compartment for smooth green snake in the south west corner of the compartment.

Archeological, Historical, and Cultural Features:

There are no records of historical features within the compartment.

Special Management Designations or Considerations:

Best Management Practices Guidelines (BMP) shall be followed with any management near or adjacent to water courses within the compartment boundaries.

Watershed and Fisheries Considerations:

Fisheries Concerns: This compartment contains Silver Creek Pond, Silver Creek, and the upstream portion of Brockies Pond. All are designated for Brook Trout. Silver Creek and Brockies Ponds are stocked annually with Brook Trout. The fishery of Silver Creek is sustained either by trout going through the level control structures or by natural reproduction. Spawning habitat is available in the creek, so we assume the majority of the trout are natural. These are not only excellent fisheries, but their relatively easy access and close proximity to Newberry make them very desirable. Any clearcut treatments where aspen regeneration can occur near Silver Creek (stream) should maintain a 300 ft buffer from the stream. Any treatments proposed near the pond should maintain a minimum of a 100 foot, plus 5 feet per 1% increase in slope, riparian management zone (RMZ) in accordance with BMP's. Silver Creek Dam, located in stand 94, is proposed for removal in the next 5 years. Following removal, waterbody will be converted into a designated trout stream, which expands from Silver Creek. A reservoir drawdown is set for 2027.

Wildlife Habitat Considerations:

Compartment 90- This compartment is located in central Luce county and is in the Grand Marais Moraine Complex Management Area. Vegetative diversity of this compartment is excellent with aspen and white pine comprising much of the total area and scattered hardwoods and openings mixed throughout. There are numerous parcels of wildlife purchased lands in this compartment. Most producing species and a conifer component will be maintained in hardwood and aspen managed stands to enhance food availability and structural and species diversity. Nest and den trees, snags, and woody debris will be maintained in stands where they exist. Wildlife species expected to be present in this compartment include deer, gray wolf, coyote, fox, black bear, fisher, marten, and ruffed grouse. Featured species include American woodcock, blackburnian warbler, American marten, red crossbill, spruce grouse, wood thrush, ruffed grouse, snowshoe hare and white-tailed deer.

Mineral Resource and Development Concerns and/or Restrictions

Sections 23-26, 35, & 36, T47N R11W and sections 31 & 32, T47N R10W, Luce County
Surface sediments consist of an end moraine of coarse-textured till and glacial outwash sand and gravel and postglacial alluvium. There is insufficient data to determine the glacial drift thickness (~ >100 feet). The Ordovician Trenton Formation and Collingwood and Utica shales subcrop below the glacial drift. The Trenton is quarried for limestone/dolomite in the UP. There are no gravel pits in the area but there is good potential. There is no economic oil and gas production in the UP.

Vehicle Access:

The compartment is approximately 10 miles northwest of Newberry. There is substantial vehicle access to the compartment. Multiple maintained county roads traverse the area. County Road 453 runs northwest/southeast through the heart of the compartment, while County Road 415 runs north easterly through the northern area and County Road 455 runs on a northwest line through the southern reaches of the compartment. Several woods roads (two track) transect the area providing additional access to the interior of the compartment. The section of Three Mile snowmobile trail located within the compartment follows a well used two track road, providing additional vehicle access during non-winter months.

Survey Needs:

For management activities to occur the following corners need to be set: N1/16 on east section of Section 36, 1/4 corner common to Section 36 and Section 31 (T47N, R10W).

Recreational Facilities and Opportunities:

Recreational facilities within the compartment include the Silver Creek ORV Trail and the Three Mile Snowmobile Trail. Silver Creek Trout Pond and a portion of Brockies Trout Pond provide good fishing opportunities within the compartment. Other recreational opportunities include hunting, hiking, wildlife viewing. The proximity of the compartment to the town of Newberry lends to a high amount of hunting activity. Numerous hunting camps are located within the compartment boundary.

Fire Protection:

The compartment has good road access for fire suppression activities. Some stands of conifer intermixed with hardwoods and moderate response times can keep the potential for large fires low in the south half of the compartment. The north half has more conifer types with few hardwood stands and some openings which could have a potential for large fires to occur. Private property in the north half could be at risk to wildfire.

Additional Compartment Information:

The Spincich Lake Remote Weather Station is located in Section 24.

The following reports from the Inventory are attached:

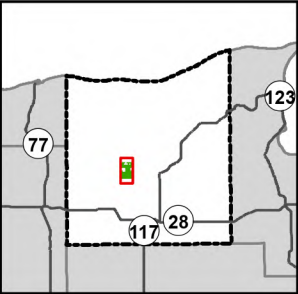
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

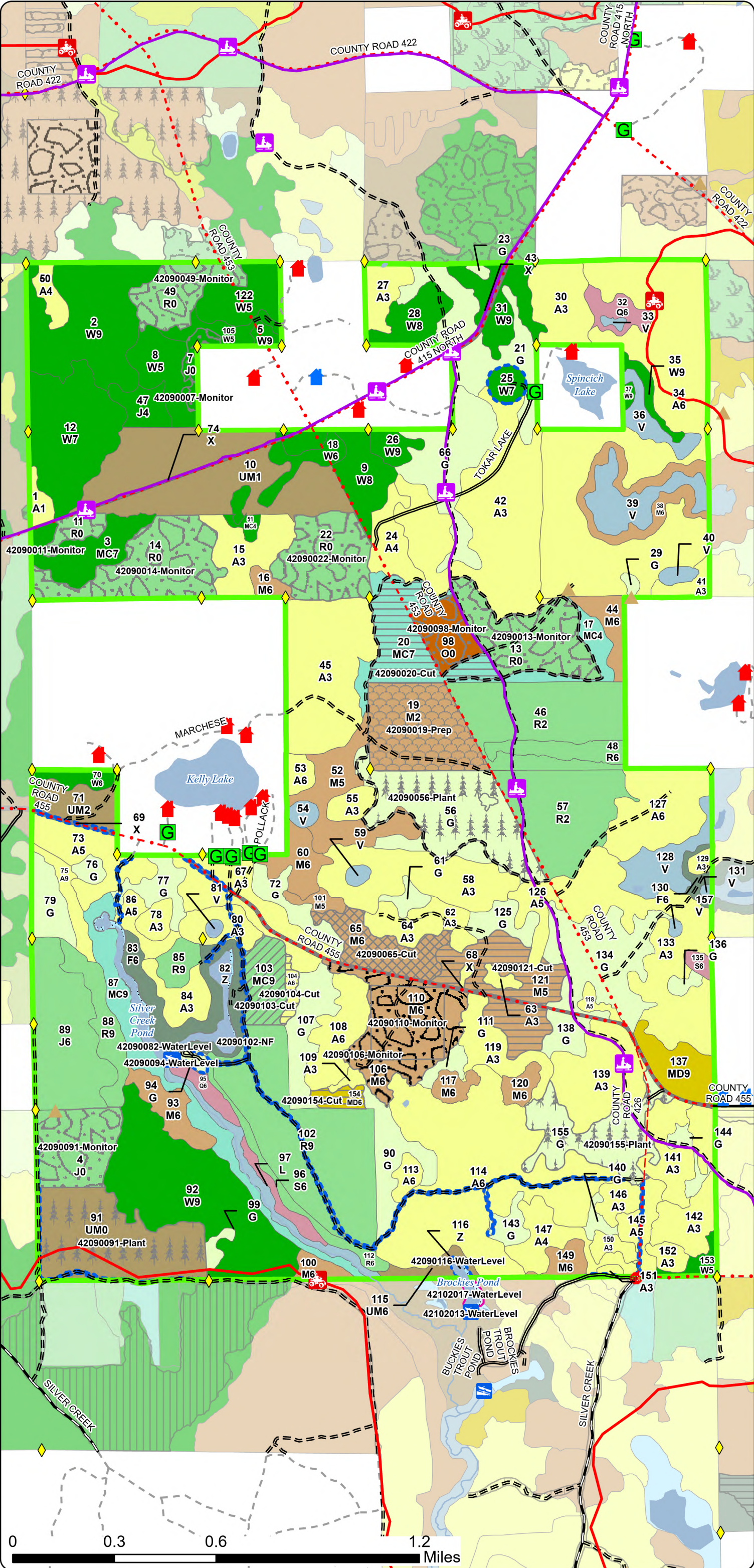
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 42090
T47N R11W 23-26, 35, 36
County: Luce
Unit: Newberry
Mgmt. Area: Grand Marais Moraine Complex
YOE: 2027
Acres: 3,245.89 GIS Calculated
Examiner: Matt Payment
Date Exported: 08/19/2025
Map Phase: Web Post

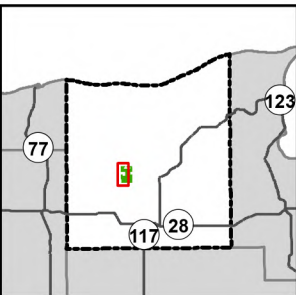


- Survey Grade Corners
- Cabin
- House
- Berms
- Gate
- Boating Access Site
- Sign
- Designated Snowmobile Trails
- Designated ATV Trails
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Perennial River
- Lakes and Rivers
- Counties
- Compartment Boundary
- Treatments with Site Conditions
- Clearcut
- Selection
- Thinning
- Site Prep
- Planting (tree species)
- Openings Mgmt.
- Water Level Mgmt.
- Monitoring - Regeneration
- Monitoring
- Water Level Mgmt.
- Clearcut
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- 412 - Oak Types
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- 612 - Lowland Coniferous Forest
- 122 - Road/Parking Lot
- 310 - Herbaceous Openland
- 622 - Lowland Shrub

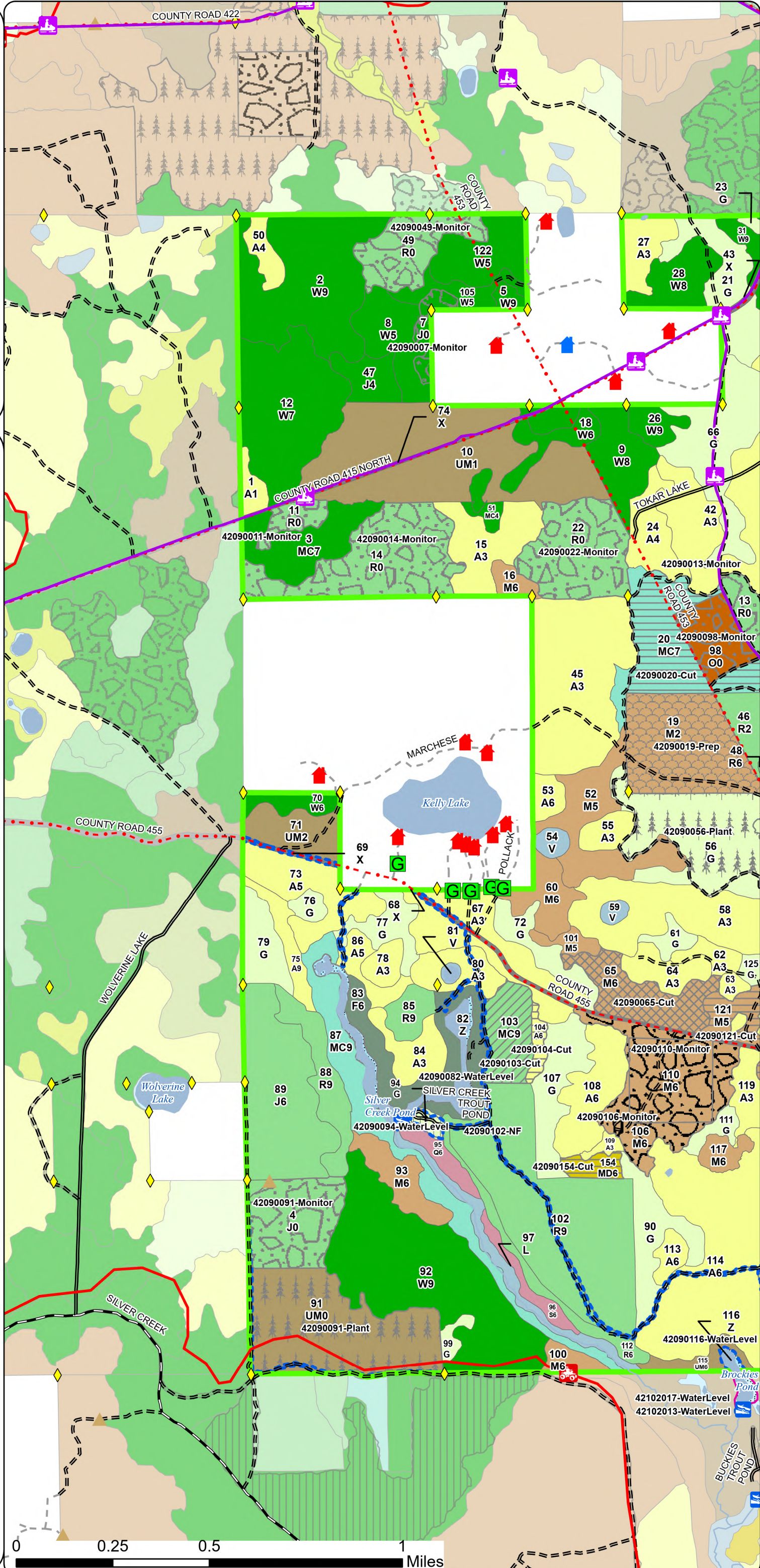


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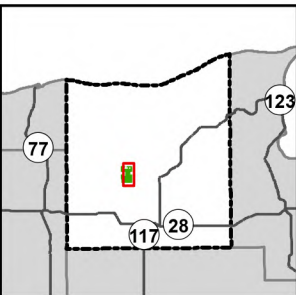


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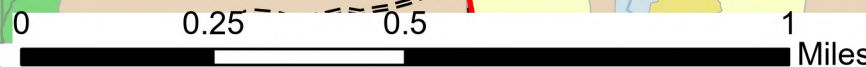
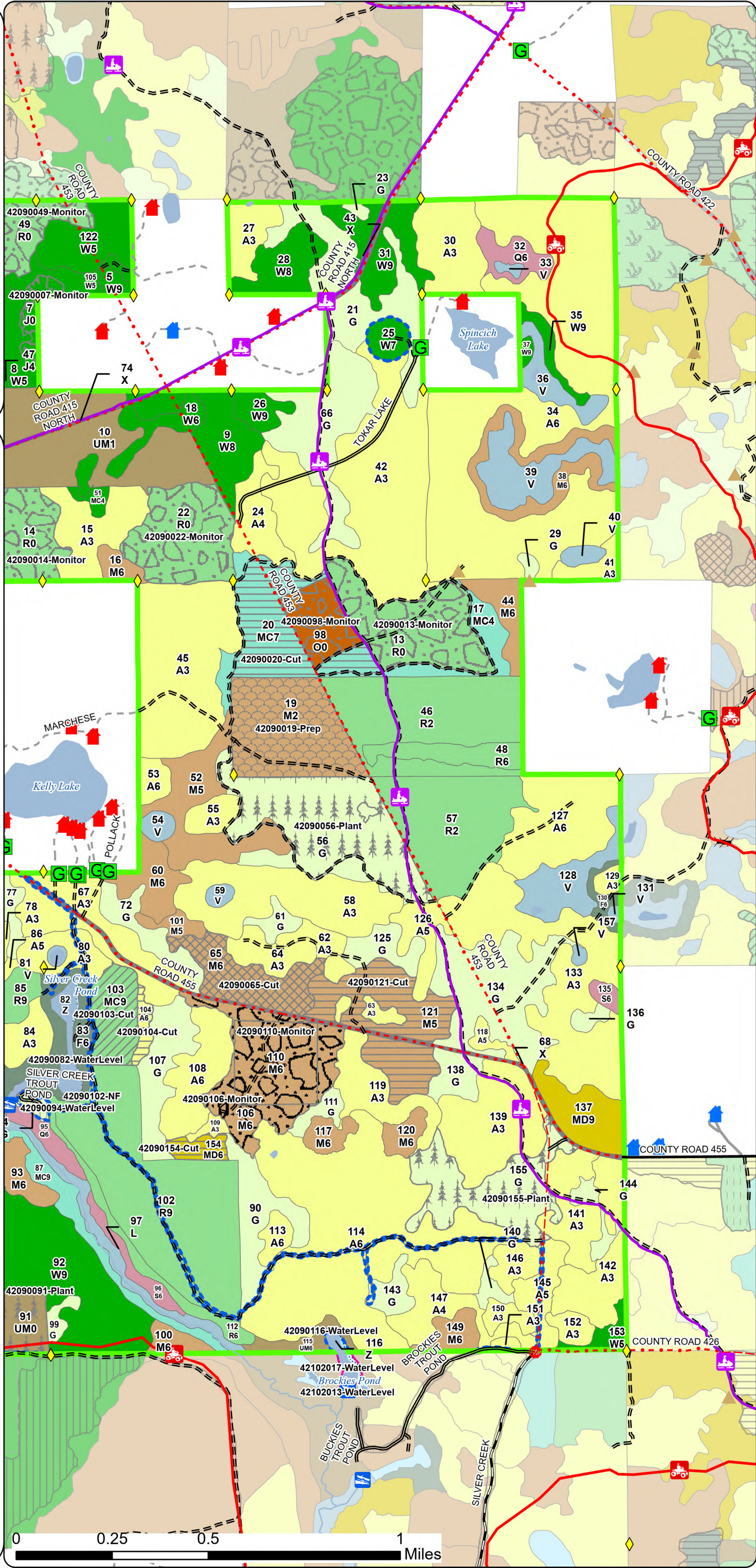


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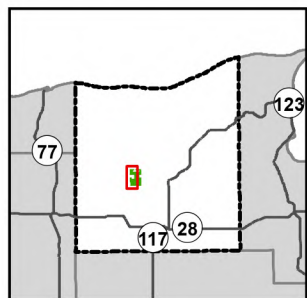
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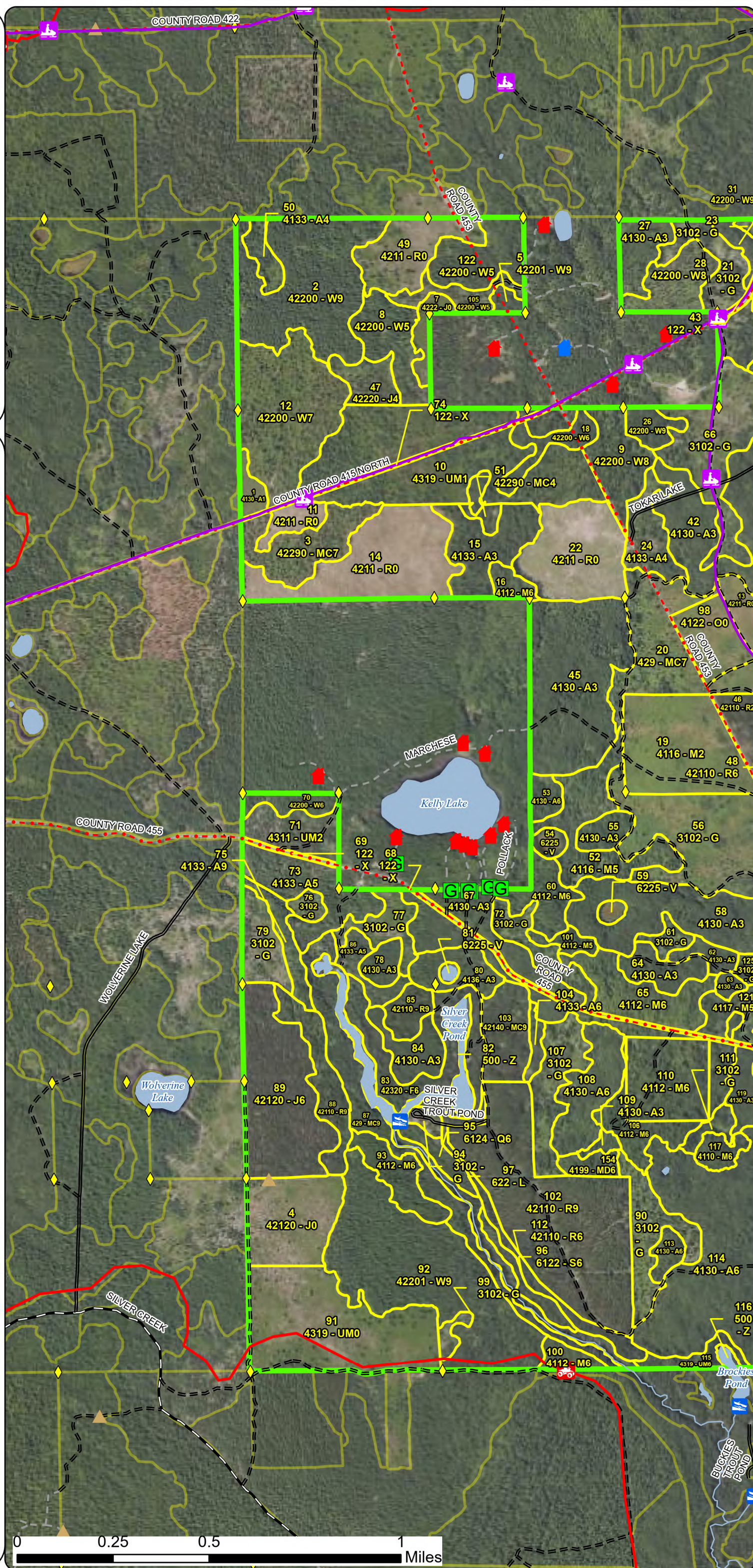
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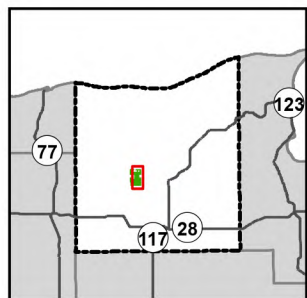
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



















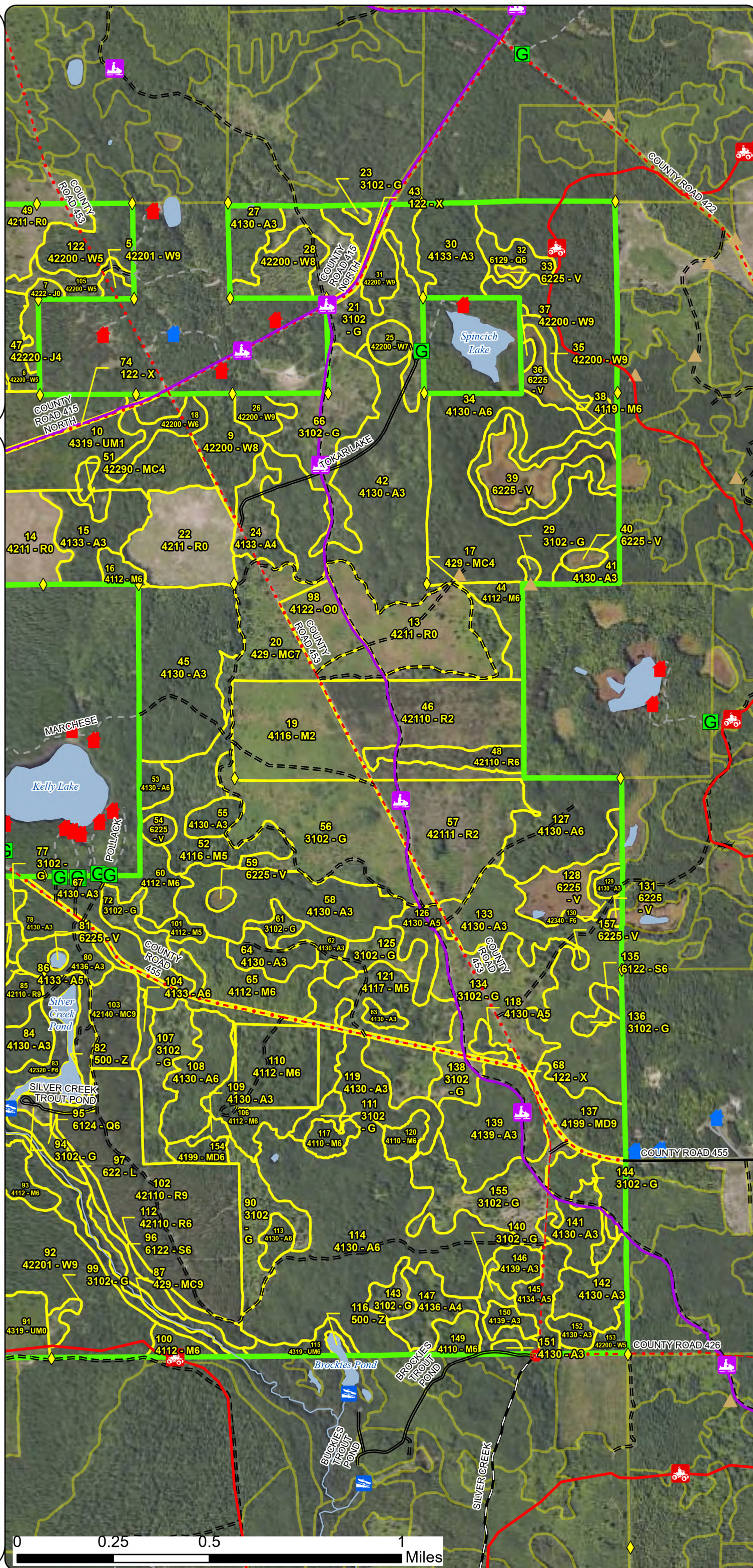
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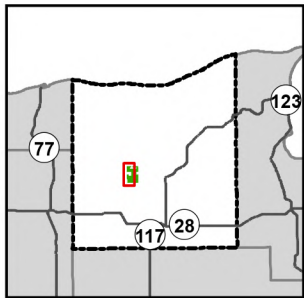






















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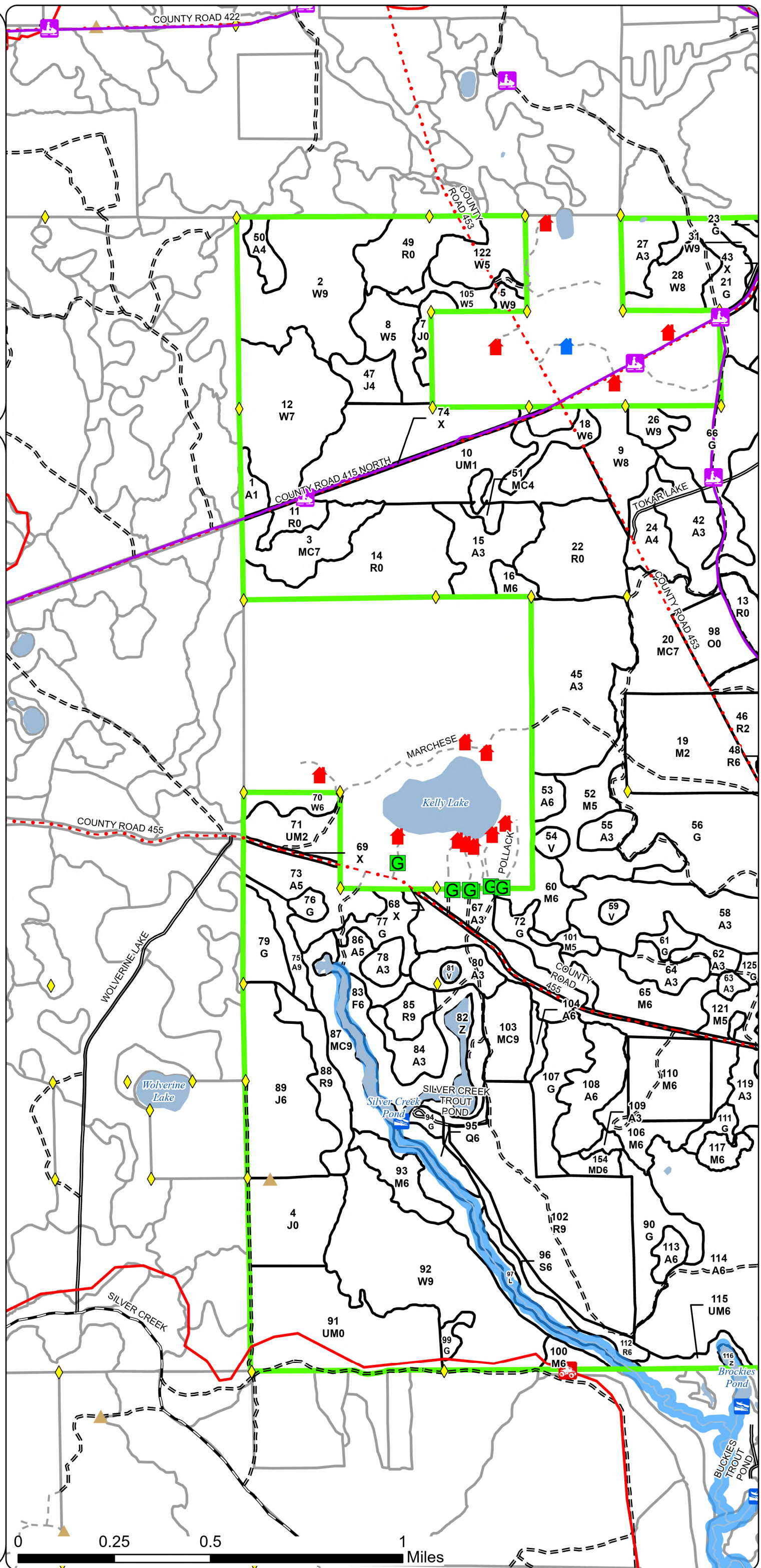


Special Conservation Areas & Site Conditions Map

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



Report 1 – Total Acres by Cover Type and Age Class

	Age Class																		
	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Unseen-Aged	Total
Aspen	0	103	98	98	526	29	173	28	0	6	0	0	0	0	0	0	0	25	1084
Bog	67	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	67
Herbaceous Openland	384	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	384
Jack Pine	41	0	0	0	11	0	56	0	0	0	0	0	0	0	0	0	0	0	108
Lowland Conifers	0	0	0	0	0	0	0	0	0	0	9	7	0	0	0	0	0	0	16
Lowland Shrub	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	0	0	3	7	0	0	0	0	0	0	10
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	20	0	0	0	0	0	0	0	0	6	26
Natural Mixed Pines	0	0	0	0	0	0	0	3	0	0	25	0	0	0	0	0	0	0	28
Northern Hardwood	0	0	48	0	52	0	0	0	0	48	0	5	0	0	0	0	0	147	300
Oak	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18
Planted Mixed Pines	0	0	0	0	0	0	0	19	0	0	0	0	0	0	0	0	0	0	19
Red Pine	166	0	117	0	0	0	0	152	0	0	0	0	0	0	0	0	0	0	435
Upland Conifers	0	0	0	0	0	0	12	0	42	0	0	0	0	38	0	0	0	0	92
Upland Mixed Forest	69	0	95	0	17	0	0	0	0	0	7	0	0	0	0	0	0	0	187
Upland Spruce/Fir	0	0	0	0	0	0	0	0	0	36	0	0	0	0	0	0	0	0	36
Urban	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21
Water	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20
White Pine	0	0	0	0	0	0	0	0	36	0	0	180	17	0	0	0	0	148	379
Total	800	103	358	98	606	29	241	202	98	90	44	199	17	38	0	0	0	326	3244

Report 2 – Treatment Summary

Newberry Mgt. Unit

Year of Entry: 2027

Acres of Harvest

Compartment 90

Total Compartment Acres: 3,246

Commercial Harvest - 666

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	Overshory Removal	Salvage	Other	Total Acres
Aspen	4	0	0	0	0	0	0	0	0	4
Mixed Upland Deciduous	6	0	0	0	0	0	0	0	0	6
Northern Hardwood	43	25	0	0	0	0	0	0	0	68
Planted Mixed Pines	0	0	0	0	0	18	0	0	0	18
Upland Conifers	36	0	0	0	0	0	0	0	0	36
Total	89	25	0	0	0	18	0	0	0	132

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	132	0	165	0	0	0	278	0	23	674
Next Step	0	399	492	0	0	521	886	31	0	2434
Total	132	399	657	0	0	521	1164	31	23	3108

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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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Proposed Treatments:

19	42090019- Prep	48.4	4116 - Mixed N. Hardwood - Aspen	2	18	Immatu re	Site Prep-Mech.	Site Prep	4211 - Planted Red Pine	Planting Record	No
<u>Prescription</u> Roller chop stand to remove competition to help establish planted red pine in stand. <u>Specs:</u> <u>Next Step</u> SitePrep, Trenching; SitePrep, Roller Chopping; Planting, Initial Plant; Pesticide, Aerial - Site Prep; Monitoring, Artificial Regen; <u>Treatments:</u> Monitoring, Artificial Regen (3yr) <u>Acceptable</u> Planted Red Pine <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026											
20	42090020-Cut	36.1	429 - Mixed Upland Conifers	7	71	1-50	Harvest	Clearcut	4211 - Planted Red Pine	Planting Record	No
<u>Prescription</u> Clearcut with retention. Remove all merchantable trees within the stand to facilitate planting operations. Retention to be left on west and <u>Specs:</u> north side of the stand. <u>Next Step</u> SitePrep, Trenching; SitePrep, Roller Chopping; Planting, Initial Plant; Pesticide, Aerial - Site Prep; Monitoring, Artificial Regen; <u>Treatments:</u> Monitoring, Artificial Regen (3yr) <u>Acceptable</u> Planted Red Pine <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026											
25	42090025- Opening	6.5	42200 - Natural White Pine	7	100	1-50	Openings Mgmt.	Openings Mgmt.	3102 - Grass	Previous Inventory	No
<u>Prescription</u> Remove/cut all large white pine, maple, aspen within a 300 ft radius of the weather station. <u>Specs:</u> <u>Next Step</u> Other, Other - Specify; SitePrep, Mastication <u>Treatments:</u> <u>Acceptable</u> None. Maintain as an opening <u>Regen:</u> <u>Other</u> Opening is needed for accurate fire weather predictions. Not maintaining for natural pine due to weather station location and required <u>Comment:</u> maintenance. <u>Site Condition:</u> No Markets <u>Proposed Start Date:</u> 10/01/2026											
56	42090056- Plant	60.1	3102 - Grass	99			Planting	Planting (tree species)	4211 - Planted Red Pine	Planting Record	No
<u>Prescription</u> Flat plant stand to red pine. <u>Specs:</u> <u>Next Step</u> SitePrep, Trenching; SitePrep, Roller Chopping; Pesticide, Skidder - Site Prep; Pesticide, Aerial - Site Prep; Planting, Trenched Plant; <u>Treatments:</u> Planting, Unfurrowed; Monitoring, Artificial Regen; NonCommCut, Brush Saw Release; Monitoring, Artific <u>Acceptable</u> planted red pine <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026											

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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
65 42090065-Cut	25.2	4112 - Maple, Beech, Cherry Association	6	95	81-110	Harvest	Selection	411 - Northern Hardwood	Current	No
<u>Prescription</u> Follow Northern Hardwoods Gap Guidance. Establish gaps around advanced regeneration within the stand. Thin between the gaps down to <u>Specs:</u> 70BA. Leave conifers between gaps when thinning. Leave all hemlock and white pine. <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory); Monitoring, Natural Regen (Intermediate) <u>Treatments:</u> <u>Acceptable</u> Northern hardwoods <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026										
82 42090082-WaterLevel	18.8	500 - Water	99			Water Level Mgmt.	Water Level Mgmt.	629 - Mixed non-forested Wetland	Previous Inventory	No
<u>Prescription</u> Silver Creek reservoir drawdown to accommodate the Fisheries division owned dam removal. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> Drawdown to impact Silver Creek dam reservoir area. <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026										
94 42090094-WaterLevel	0.3	3102 - Grass	99			Water Level Mgmt.	Water Level Mgmt.	500 - Water	Previous Inventory	No
<u>Prescription</u> Fisheries owned dam structure removal and reservoir drawdown. <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> 10/01/2026										
102 42090102-NF	23.1	42110 - Planted Red Pine	9	66	111-140	NonForestMgt	Openings Mgmt.	3105 - Mixed Upland Herbaceous	Previous Inventory	No
<u>Prescription</u> Wildlife planting along Silver Creek Bird Trail, Trail plantings of clover and wildflowers. Hand plant mast producing trees and shrubs. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> Native flowers, grasses, shrubs, and mast producing trees. <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> BMPs <u>Proposed Start Date:</u> 10/01/2026										

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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
103 42090103-Cut	18.4	42140 - Planted Mixed Pine	9	66	81-110	Harvest	Thinning	4211 - Planted Red Pine	Planting Record	No
<u>Prescription</u> Thin Red and white pine 60-80BA. Focus on removing larger & deformed red pine. Cut all aspen, maple, jack pine, and fir. Leave some <u>Specs:</u> varying sizes of spruce within stand. Leave all birch. Leave component of larger white pine for bear escape trees. Leave <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> red pine <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026										
104 42090104-Cut	4.0	4133 - Aspen, Mixed Pine	6	53	81-110	Harvest	Clearcut	413 - Aspen	Planting Record	No
<u>Prescription</u> Clearcut remove all species. No retention due to small acres. Leave some mature aspen along red line ideally along northern edge for <u>Specs:</u> grouse. <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Aspen <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026										
106 42090106-Monitor	25.7	4112 - Maple, Beech, Cherry Association	6	95	51-80	Monitoring	Monitoring	4110 - Sugar Maple Association	Current	No
<u>Prescription</u> monitor oak planting <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Sugar maple with red maple and beech. <u>Regen:</u> <u>Other</u> Percent to Treat = 100% <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2025										
110 42090110-Monitor	29.8	4112 - Maple, Beech, Cherry Association	6	95	81-110	Monitoring	Monitoring	411 - Northern Hardwood	Current	No
<u>Prescription</u> Monitoring of research results to be done by MSU (MWR research project) <u>Specs:</u> <u>Next Step</u> Monitoring, Herbicide Use; Monitoring, Natural Regen (Intermediate) <u>Treatments:</u> <u>Acceptable</u> Northern hardwoods <u>Regen:</u> <u>Other</u> Percent to Treat = 100% <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026										

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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
116 42090116-WaterLevel	1.6	500 - Water	99			Water Level Mgmt.	Water Level Mgmt.	629 - Mixed non-forested Wetland	Previous Inventory	No
<u>Prescription</u> Brockies dam reservoir drawdown to facilitate the removal of the Fish Division owned dam structure removal. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> Drawdown to impact Brockies trout pond dam reservoir area. <u>Comment:</u> <u>Site Condition:</u> BMPs <u>Proposed Start Date:</u> 10/01/2026										
121 42090121-Cut	43.0	4117 - Mixed N. Hardwood - Pine	5	82	51-80	Harvest	Clearcut	4211 - Planted Red Pine	Planting Record	No
<u>Prescription</u> Clearcut with retention. Remove all species present. Leave 3-5% retention pockets, focusing on finger and mature pockets of trees. Trench and plant to red pine. <u>Specs:</u> <u>Next Step</u> SitePrep, Trenching; SitePrep, Roller Chopping; Planting, Initial Plant; Pesticide, Aerial - Site Prep; Monitoring, Artificial Regen; <u>Treatments:</u> Monitoring, Artificial Regen (3yr) <u>Acceptable</u> planted red pine <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026										
154 42090154-Cut	5.7	4199 - Other Mixed Upland Deciduous	6	75	81-110	Harvest	Clearcut	4139 - Aspen, Mixed Deciduous	Planting Record	No
<u>Prescription</u> Clearcut. Remove all species present. No retention due to small acreage. Leave aspen and white pine in the red line for grouse. Create one drumming log for grouse. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> aspen, mixed deciduous <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026										
155 42090155-Plant	39.9	3102 - Grass	99			Planting	Planting (tree species)	330 - Low-Density Trees	Previous Inventory	No
<u>Prescription</u> monitor <u>Specs:</u> <u>Next Step</u> Monitoring, Habitat Monitoring <u>Treatments:</u> <u>Acceptable</u> opening with scattered trees including mast producing oak and apple <u>Regen:</u> <u>Other</u> Percent to Treat = 100% <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026										

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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
13 42102013-WaterLevel	0.3	4319 - Mixed Upland Forest	6	91	81-110	Water Level Mgmt.	Water Level Mgmt.	500 - Water	Previous Inventory	No
<u>Prescription</u> Fisheries owned dam structure removal and reservoir drawdown. <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> BMPs <u>Proposed Start Date:</u> 10/29/2025										
17 42102017-WaterLevel	2.9	500 - Water	99		Unspecified	Water Level Mgmt.	Water Level Mgmt.	629 - Mixed non-forested Wetland	Previous Inventory	No
<u>Prescription</u> Brockies dam reservoir drawdown to facilitate the removal of the Fish Division owned dam structure 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										

Approved Treatments:

7 42090007-Monitor	7.1	4222 - Natural Jack Pine	0	5	Immature	Monitoring	Monitoring - Regeneration	4222 - Natural Jack Pine		No
<u>Prescription</u> <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> Jack pine, with aspen component. <u>Regen:</u> <u>Other</u> Percent to Treat = 100% <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026										

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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
11 42090011-Monitor	7.4	4211 - Planted Red Pine	0	1	Immature	Monitoring	Monitoring - Regeneration	4211 - Planted Red Pine		No
<u>Prescription</u> <u>Specs:</u> <u>Next Step</u> Pesticide, (Inactive)Aerial; ; Monitoring, Herbicide Use; Other, Pre-Commercial Thinning - Mechanical <u>Treatments:</u> <u>Acceptable</u> Red pine <u>Regen:</u> <u>Other</u> Percent to Treat = 100% <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2025										
13 42090013-Monitor	43.4	4211 - Planted Red Pine	0	1	Immature	Monitoring	Monitoring - Regeneration	42110 - Planted Red Pine	Planting Record	No
<u>Prescription</u> <u>Specs:</u> <u>Next Step</u> NonCommCut, Brush Saw Release; Monitoring, Artificial Regen; Pesticide, Aerial - Release; Planting, Interplant <u>Treatments:</u> <u>Acceptable</u> Red pine <u>Regen:</u> <u>Other</u> Percent to Treat = 100% <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2024										
14 42090014-Monitor	51.2	4211 - Planted Red Pine	0	1	Immature	Monitoring	Monitoring - Regeneration	4211 - Planted Red Pine		No
<u>Prescription</u> <u>Specs:</u> <u>Next Step</u> Planting, Initial Plant; Monitoring, Herbicide Use; Pesticide, (Inactive)Aerial; Pesticide, (Inactive)Aerial; Planting, Replant; Monitoring, <u>Treatments:</u> Herbicide Use; Monitoring, Artificial Regen <u>Acceptable</u> Red Pine. <u>Regen:</u> <u>Other</u> Percent to Treat = 100% <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026										
22 42090022-Monitor	38.8	4211 - Planted Red Pine	0	1	Immature	Monitoring	Monitoring - Regeneration	4211 - Planted Red Pine		No
<u>Prescription</u> <u>Specs:</u> <u>Next Step</u> Planting, Replant; Monitoring, Herbicide Use <u>Treatments:</u> <u>Acceptable</u> Red Pine <u>Regen:</u> <u>Other</u> Percent to Treat = 100% <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026										

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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
49 42090049-Monitor	24.9	4211 - Planted Red Pine	0	1	Immature	Monitoring	Monitoring - Regeneration	4211 - Planted Red Pine	Planting Record	No
<u>Prescription</u> 3rd year artificial regen monitor. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> rp <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2025										
91 42090091-Monitor	32.2	4319 - Mixed Upland Forest	0	4	Immature	Monitoring	Monitoring - Regeneration	4212 - Planted Jack Pine		No
<u>Prescription</u> Monitor jack pine planting. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> Jack pine with a mix of other species. <u>Regen:</u> <u>Other</u> Percent to Treat = 100% <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2025										
91 42090091-Plant	64.8	4319 - Mixed Upland Forest	0	4	Immature	Planting	Planting (tree species)	42260 - Natural Pine, Mixed Deciduous	Planting Record	No
<u>Prescription</u> Hand plant oak to enhance oak component. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Red pine, white pine, jack pine with aspen, birch, maple, cherry, oak, spruce and balsam. <u>Regen:</u> <u>Other</u> See Post Compartment Review Change for additional documentation and approval. <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 01/27/2021										
98 42090098-Monitor	17.5	4122 - Oak, Pine	0	1	Immature	Monitoring	Monitoring - Regeneration	42250 - Pine, Oak	Planting Record	No
<u>Prescription</u> Monitor <u>Specs:</u> <u>Next Step</u> SitePrep, Trenching; ; Monitoring, Artificial Regen (3yr); Other, Pre-Commercial Thinning - Hand <u>Treatments:</u> <u>Acceptable</u> Planted oak w. white pine <u>Regen:</u> <u>Other</u> Percent to Treat = 100% <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2023										

Newberry Mgt. Unit		Report 3 -- Treatments							Compartment: 42090		
									Year of Entry: 2027		
S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
Total Treatment Acreage Proposed:		677.1									



Availability for Management

Total Acres	Acres Available	Acres Available With Condition	Acres Not Available	Dominant Site Conditions			
Acres	Available	With Condition	Not Available	4A	5C	3J	5E
976	925	39	13	Aspen	39		13
67	67	0	0	Bog			
380	379	0	0	Herbaceous Openland			0
107	107	0	0	Jack Pine			
16	0	9	7	Lowland Conifers	9	7	
14	14	0	0	Lowland Shrub			
10	3	0	7	Lowland Spruce/Fir		7	
25	25	0	0	Mixed Upland Deciduous			
28	28	0	0	Natural Mixed Pines			
301	301	0	0	Northern Hardwood			
18	18	0	0	Oak			
19	19	0	0	Planted Mixed Pines			
432	421	0	12	Red Pine		12	
53	12	0	41	Upland Conifers		38	3
187	180	0	7	Upland Mixed Forest		7	
36	0	0	36	Upland Spruce/Fir		36	
21	21	0	0	Urban			
19	19	0	0	Water		0	
381	375	7	0	White Pine	7		
3,091	2,914	54	123	Total Forested Acres	7	48	106
	94%	2%	4%	Relative Percent			17

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

Site No.	Dominant Site Cond	Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Available		5C: Delay treatment for age/size class diversity or exceptional site quality	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:								

Report 4 – Site Conditions



2	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	5	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
Comments:							
3	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	13	5F: Evaluated for Forest Health Considerations	Unspecified	Unspecified	Unspecified
Comments: Evaluated for SBW							
5	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	7	2F: Too steep	5F: Evaluated for Forest Health Considerations	Unspecified	Unspecified
Comments: Steep buffer along trout pond. Evaluated for SBW.							
7	Unavailable	5E: Long-Term Retention	4	3J: Water quality/BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments:							
8	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Newberry Mgt. Unit
Matt Payment: Examiner

Compartment: 90
Year of Entry: 2027



9	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
10	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Unavailable	5E: Long-Term Retention	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
12	Unavailable	5E: Long-Term Retention	1	3J: Water quality/BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments:							
13	Available	4A: No markets available for these forest products	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Low quality, Low value product in the open grown limby white pine. Small volume as well. The plan will be to use this stand for saw training for office staff when time permits.							
14	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Left as retention as part of stand 20.							
15	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Retention as part of stand 20.							

Report 4 – Site Conditions



16	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Retention part of stand 20.							
17	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
53	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	6	5C: Delay treatment for age/size class diversity or exceptional site quality	Unspecified	Unspecified	Unspecified
Comments:							
83	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	83	5F: Evaluated for Forest Health Considerations	Unspecified	Unspecified	Unspecified
Comments: Evaluated for SBW.							
86	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
113	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Newberry Mgt. Unit
Matt Payment: Examiner

Compartment: 90
Year of Entry: 2027



148	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
202	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	12	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

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
1	4130 - Aspen	Sapling Poor	5.2	6	Immature	N/A	20224 - 2024- Fully stocked aspen stand with mixed deciduous and conifers scattered throughout the stand. Some large overstory white pine remain as well. Old Comments - Stand was harvested via Clearcut: Blue Line Pine 42-20-17. Cut in winter of 2019/2020. Stand scarified summer of 2020 via contractor. Stand to be planted if natural regen fails. Kalkaska-Okeefe sand complex.
		Canopy Species	% Cover	Size Class	DBH	Age	
		Quaking Aspen	80	Log	1	6	
		Red Maple	10	Log	1		
		White Pine	5	Log	1		
		Balsam Fir	5	Log	1		
2	42200 - Natural White Pine	Sawtimber Well	65.1	100	1-50	N/A	Stand was harvested via shelterwood with retention: Blue Line Pine 42-20-17. Cut in winter of 2019/2020. Stand scarified summer of 2020 via contractor. Natural white pine stand with scattered pockets of thick red pine throughout stand. Very typical of the natural white pine stands in the area. Northern half of the stand is Kalkaska sand and the southern half is more of a Kalkaska-Okeefe sand complex.
		Canopy Species	% Cover	Size Class	DBH	Age	
		Red Pine	25		12		
		White Pine	70		11	100	
		Quaking Aspen	5	Seedling	9		
		Sub-Canopy Species	Density	Avg. Height	Size		
		White Pine	Medium	Variable	Variable		
		Maple (spp.)	Medium	10 - 20 feet	10 - 20 feet		
3	42290 - Natural Mixed Pine	Sawtimber Poor	25.4	92	1-50	N/A	Stand was harvested via shelterwood with retention: Blue Line Pine 42-20-17. Cut in winter of 2019/2020. Stand scarified summer of 2020 via contractor. Regeneration survey 11/1/2023: Variable amounts of regeneration throughout; Moderate white pine regeneration (saplings 1 - 6' and moderate/high amounts of seedlings) with areas of stump sprout and seed source red maple and pockets of aspen regeneration; minimal and pockets of red and jack pine seedlings present. Previous inventory: Stand planted with red pine in the fall of 1952, replanted in fall of 1959 with red pine. Mixed pine stand of red pine (planted) and white pine. Aspen throughout stand. White pine in the stand is of variable ages. Diameters of white pine are variable throughout. Lots of structural diversity in the stand. Appears to be evidence of weevil damage in some white pine. Open in areas. Density of the stand is variable. Kalkaska sand.
		Canopy Species	% Cover	Size Class	DBH	Age	
		White Pine	55		12	92	
		Red Pine	45		12		
		Sub-Canopy Species	Density	Avg. Height	Size		
		Black Cherry	Low	Variable	Variable		
		White Pine	Low	< 5 feet	< 5 feet		
		Jack Pine	Low	< 5 feet	< 5 feet		
		Red Maple	Medium	< 5 feet	< 5 feet		
		Aspen (spp.)	Low	5 - 10 feet	5 - 10 feet		
		Red Pine	Low	< 5 feet	< 5 feet		
4	42120 - Planted Jack Pine	Unspecified	33.8	4	Immature		2025 - Was part of stand 91 but was planted back to jack pine. Planted with 885 TPA jack pine on 5/12/2022. 6/5/21 - Stand was trenched spring of 2021. Ready for planting. 1/12/21 - JAT - through discussion between FRD and WLD regarding the management of red pine on purchased lands, the decision was made to relocate the red pine acreage (proposed 66 ac) from this stand to comp 90 stand 20 (east of snowmobile trail) and comp 90 stand 49 and comp 91 stand 122. The RX burn treatment is also dropped from this stand. The northern 1/3, 35 acres, of this stand will still be trenched and planted to jack pine. The remainder of the stand is to be allowed to regenerate naturally, possibly having some oak planting(s) per wildlife division discretion. Clearcut in 2018 as part of PR Pine, #031-17, leaving approx. 1 RP or WP > 16" every 80', if present. To be burned, trenched and planted (N 1/3 to JP, S 2/3 to RP), herbicide (once only) under FTP 42-947.
		Sub-Canopy Species	Density	Avg. Height	Size		
		Jack Pine	High	< 5 feet	< 5 feet		

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																
5	42201 - Natural White Pine, Mixed Deciduous	Sawtimber Well	3.0	72	81-110	N/A	Open areas with scrubby, limby white pine (cabbage pine). Pockets of larger white pine with higher BA. West of county road has mature, large diameter aspen. Kalkaska sand.																																
<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>60</td><td></td><td>9</td><td>72</td></tr><tr><td>Quaking Aspen</td><td>40</td><td></td><td>10</td><td></td></tr></table>		Canopy Species	% Cover	Size Class	DBH	Age		White Pine	60		9	72	Quaking Aspen	40		10		<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>White Pine</td><td>Low</td><td>Variable</td><td>Variable</td></tr></table>		Sub-Canopy Species	Density	Avg. Height	Size	Red Maple	Low	Variable	Variable	White Pine	Low	Variable	Variable								
Canopy Species	% Cover	Size Class	DBH	Age																																			
White Pine	60		9	72																																			
Quaking Aspen	40		10																																				
Sub-Canopy Species	Density	Avg. Height	Size																																				
Red Maple	Low	Variable	Variable																																				
White Pine	Low	Variable	Variable																																				
7	4222 - Natural Jack Pine	Unspecifed	7.1	5	Immature		Stand was harvested via Clearcut: Blue Line Pine 42-20-17. Cut in winter of 2019/2020. Stand scarified summer of 2020 via contractor.2025 - Regen present within the stand but sparse and will need to be checked in 2 years.																																
		<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Jack Pine</td><td>Low</td><td>< 5 feet</td><td>< 5 feet</td></tr></table>		Sub-Canopy Species	Density	Avg. Height		Size	Jack Pine	Low	< 5 feet	< 5 feet																											
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8	42200 - Natural White Pine	Poletimber Medium	20.5	100	1-50	N/A	Open areas with scrubby, limby white pine (cabbage pine). Pockets of larger white pine with higher BA. Clumps of merchantable aspen. Kalkaska sand.																																
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9	42200 - Natural White Pine	Sawtimber Medium	25.0	75	1-50	N/A	Portion of Deer Feeder Jack Pine, sale #028-07-01. Residual white pine and red pine BA was too high for scarification. Stand is now more of a W4/W7 with maple, aspen and white pine regeneration coming in.Old notes: Jack pine planted in 1951, red pine planted in 1952, and jack pine planted again in 1960. Multiple plantings. ***Sale #050-07-02. Completed 9/25/07. Luce County Road Commission widened the Co Rd 415 ROW (approx 10 ft each side of the road) which runs through this stand. ***Stand harvested as "Deer Feeder Jack Pine", sale #028-07-01. Completed 11/12/08. Scarification completed Fall 2009. Regen check needed 2013. Regen 2015: Jack pine 422 TPA, birch 422 TPA, red maple 459 TPA. Surveyed with stand 10.																																
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10	4319 - Mixed Upland Forest	Sapling Poor	94.9	17	1-50	N/A	Jack pine planted in 1951, red pine planted in 1952, and jack pine planted again in 1960. Multiple plantings. Sale #050-07-02. Completed 9/25/07. Luce County Road Commission widened the Co Rd 415 ROW (approx 10 ft each side of the road) which runs through this stand. Minimal acreage or volume was affected. Stand harvested as "Deer Feeder Jack Pine", sale #028-07-01. Completed 11/12/08. Left white pine and red pine as residual. Scarification completed Fall 2009. Good amount of residual white pine and red pine left, more so in the eastern portion of the stand. Regen check found jack pine at 422 trees/acre, birch at 422 trees/acre, and red maple at 460 trees/acre.																																
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11	4211 - Planted Red Pine	Unspecified	7.4	1	Immature		2024 Artificial Regen Linear Survey Report:Forest Resource Services SPP: RPPlanted TPA: 990Survived TPA: 949% mortality: 4% free to grow: 98Height: .5Notes: noneStand planted to red pine via initial plant on 5/14/24 to 967 TPA. Average spacing of 7.7 feet. Site prep spray completed on 7/13/2023 via helicopter.Site was never burned for slash reduction. Burn terminated. Site trenched 8/2/22.Stand was harvested via clearcut: Blue Line Pine 42-20-17. Cut in winter of 2019/2020. Previous Inventory: Stand was planted in 1952 and then again in 1959. Small component of white pine. Kalkaska sand.																																
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
14	4211 - Planted Red Pine	Unspecified	51.2	1	Immature		2024 Artificial Regen Linear Survey Report:Forest Resource Services SPP: RPPlanted TPA: 946Survived TPA: 899% mortality: 5% free to grow: 97Height: .5Notes: noneStand planted to red pine via initial plant on 5/14/24 to 956 TPA. Average spacing of 7.9ft. Site prep spray completed on 7/13/2023 via helicopter.Site was never burned to reduce slash loads. Site trenched 8/2/2022.Stand was harvested via clearcut: Blue Line Pine 42-20-17. Cut in winter of 2019/2020. See treatment next steps for details on slash reduction burn to facilitate planting. Liminga-Alcona soil complex.
15	4133 - Aspen, Mixed Pine	Sapling Well	24.7	15	Immature	N/A	Stand harvested via clearcut with reserves as sale #42-030-07-01, Spincich Lake Aspen. Completed 07/02/2010. All white birch, cherry, red pine and white pine was retained. Good aspen and maple regeneration coming in, 10-20 ft tall. Old Notes: Mixed stand of aspen with red maple, red pine and white pine. Scattered junberry. Pockets of balsam. Decline and mortality in the aspen. Harvest - cut all species except red pine, white pine and junberry. NE corner of the stand has higher BA of white pine. Some white pine may need to be marked for maneuverability. Access to the stand would be via road to the south of the stand. Management objective of aspen. Alternative MO would be a mixed pine stand of red and white pine (residual) with aspen and northern hardwoods. Liminga-Alcona soil complex.
16	4112 - Maple, Beech, Cherry Association	Poletimber Well	5.0	105	81-110	N/A	Stand was thinned as sale #42-030-07-01. Completed 07/02/2010. Residual BA average 80-90.Old Notes: Red maple stand. Some quality pole size trees. Lots of clumps of 3-4 trees. Some good crop trees. Areas with twists, forks, multiple stems. Thin by selection system. Remove low quality trees and multiple stems. Management objective is northern hardwoods. Liminga-Alcona soil complex.
17	429 - Mixed Upland Conifers	Poletimber Poor	11.5	51	51-80	N/A	Scattered aspen, and cherry on the fringe of what will be planted to red pine. This stand is within the portion of the old stand agreed to plant to red pine however this fringe will not be treated based on the amount of canopy. Portion was not sprayed but burned in the past.
18	42200 - Natural White Pine	Poletimber Well	13.9	105	111-140	N/A	Small mixed stand of jack pine, white pine, and aspen. White pine is limby and young. Jack pine and aspen are healthy. Leave for 10 years for visual concerns with harvest of adjacent jack pine stand (stand 10). Liminga-Alcona soil complex.

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																									
19	4116 - Mixed N. Hardwood - Aspen	Sapling Medium	48.4	18	Immature	N/A	11/26/24 - Stand is now completely filled in with deciduous saplings and scattered larger jack pine. It was recommended last entry to maintain the opening to meet the objectives previously set forth.																									
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6/5/17 - Site burned on 4/25/17 -W42-662 Monitor site for future burning possibilities and future mechanical methods to reduce woody stems competition. Stand is regenerating to a mix of aspen, maple, cherry and some jack pine. Stand was clearcut and then burned as part of treatment to maintain as an opening. Stand is filling in vigorously with saplings. If the objective is to maintain it as an opening, it will need to be managed this inventory cycle.Old Notes: Planted in the spring of 1960. Stand suffered severe wind damage in Oct/Nov 2003. Lots of broken tops and blowdown. Areas with blowdown completely through the strips. Try to prevent budworm problems by salvaging the stand prior to 2007. Salvage stand immediately while the blown down trees are still sound. This stand was created from the portion of stand 46 west of Co Rd 453 as a result of discussion at the Compartment Review. Per the request of the Wildlife Ecologist, following harvest, this stand will be maintained as an opening along with stands 247 and 250 (originally parts of stands 47 and 50 respectively) in return for stand 452 being converted to jack pine. The purpose of the change was to create on large contiguous opening complex to benefit the sharptail grouse in the area rather than 2 separate openings on opposite sides of a jack pine plantation. Following harvest, the stand will be maintained through a prescribed burn to promote grass and reduce slash. Repetitive burns may be needed over a few years until the objective is accomplished. Management objective is grass opening. ***Stand harvested as "Weather Station Salvage", sale #035-05-01. Completed 10/18/07. This stand will be maintained now as an opening as agreed to at the Comp Review. Prescribed burn yet to take place as of 11/21/07.																																

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																
20	429 - Mixed Upland Conifers	Sawtimber Poor	42.2	71	1-50	N/A	2024 Artificial Regen Linear Survey Report:Forest Resource Services SPP: RPPlanted TPA: 986Survived TPA: 952% mortality: 4% free to grow: 100Height: .6Notes: Great site!!Planted to RP 5/202411/26/24 - Stand has larger trees scattered throughout the stand making it more forested than grassy opening. Large white pine, spruce, jack pine, aspen, and maple comprise the stand. Some regen of aspen, maple, spruce.8/9/2023 - Stand split based on previously modified management objectives. Portion of stand 20 east of the snowmobile trail is now a separate stand. Portion that will be planted with oak/white pine also a separate stand. 9/15/2021 - Portion of the site rollerchopped to accommodate planting red pine. 1/8/2021 - Portion of stand 20 east of the snowmobile trail and within the existing burn lines/two track roads, was agreed to be planted to red pine. This acreage is to replace the red pine not being planted on the purchased lands in stand 42090091, 42091059 and 42085004. 6/5/17 - Burn completed 4/25/2017 FTP W42-662. Assess for future monitoring and mechanical methods of woody reduction. Large opening being maintained by prescribed burns. Weather Station Rx Burn. Forest Treatment Proposal (FTP #) calls for multiple burns over a period of years to successfully kill the encroaching aspen, cherry and white pine, to maintain the opening. Portion of the stand east of Co Rd 453 burned very successfully, knocking back the encroachment. Stump sprouting of cherry and new aspen regeneration is beginning. Another burn is necessary. Portion of the stand west of Co Rd 453 didn't burn as well and has a lot of encroachment still...needs to be burned again.Old Notes: Large grass opening filling in with small aspen and cherry. Prescribed burn to maintain as a large grass opening, reduce the aspen and cherry encroachment. Also reduce the bracken fern and mosses, promoting more grasses and forage. Historically a sharptail grouse area, so try to establish favorable open habitat. Repetitive burning may be needed until the objective is accomplished. Kalkaska sand.																																																
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21	3102 - Grass	None	40.5			No	Grass opening with a high number of open grown, limby white pine. Some areas within the stand could type out as a W4. Separated from stand 66 due to the amount of white pine within the stand.																																																
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22	4211 - Planted Red Pine	Unspecified	38.8	1	Immature		2024 Artificial Regen Linear Survey Report:Forest Resource Services SPP: RPPlanted TPA: 842Survived TPA: 821% mortality: 2.5% free to grow: 86Height: .6Notes: noneStand planted to red pine via initial plant on 5/9/24 to 854 TPA. Average spacing of 8.6 ft. Site sprayed on 7/13/2023 via Helicopter.Site was trenched summer of 2022.Harvested via clearcut; Struggle Bus Red Pine, 42-030-17; Completed 10/21/2019.Large diameter red pine. Scattered aspen throughout the stand. High BA throughout most of the stand with some areas of lower BA and more open. Old plantation (1952, 1959 plantings - notes from adjacent stands). Remnants of furrows N/S direction. Red pine is good quality, diameters are 14 inch and larger on average, up to 20 inches.. White pine is limby and lower quality. Aspen is showing signs of decline and mortality. Liminga-Alcona soil complex.9/15/21 - Site was not burned in 2021. Site was rollerchopped in summer of 2021. Site now ready for trench, spray, and plant sequence (Next steps all on POW).
23	3102 - Grass	None	1.4			No	
24	4133 - Aspen, Mixed Pine	Poletimber Poor	15.9	35	1-50	N/A	Open ground with cherry and scattered aspen clones. Stand is filling in with aspen, maple, cherry saplings as well as slightly older, limby low quality white pine. Aspen is patchy. Liminga-Alcona soil complex.
25	42200 - Natural White Pine	Sawtimber Poor	6.5	100	1-50	N/A	Managed area surrounding the Spincich Lake Weather Station. Grass opening with a high number of open grown, limby white pine. Some areas within the stand could type out as a W4. Separated from stand 425 due to the amount of white pine within the stand. Kalkaska sand.
26	42200 - Natural White Pine	Sawtimber Well	7.5	70	81-110	N/A	Small diameter, young white pine with scattered large diameter (22-28 inch) white pine throughout. Young aspen component. Kalkaska sand.

Stand	Level 4 Cover Type	Size Density			Acres	Stand Age	BA Range	Managed Site	General Comments																																																
27	4130 - Aspen	Sapling Well			12.7	15	Immature	N/A	Stand final harvested as sale #030-07-01, Spincich Lake Aspen. Complete 07/02/10. Regenerating nicely to aspen with maple and cherry. 10+ ft tall regeneration. Scattered large diameter white pine that were left as residual after the harvest.Old notes: Mature aspen showing signs of rot and mortality. Some aspen is large diameter. NE portion of the stand has more white pine. Southern portion of the stand is smaller diameters and more open. Poor quality white pine within the stand. Harvest - Cut all white pine within the stand due to quality and to promote thick aspen regeneration. Management objective is aspen. Alternative MO would be a mixed stand of white pine, aspen and some northern hardwoods. Kalkaska sand.																																																
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28	42200 - Natural White Pine	Sawtimber Medium			17.4	110	1-50	N/A	Stand monitored for natural regeneration 11/1/2023: Adequate stocking of white pine seedlings and saplings with red maple stump sprouts; mixed other regeneration; aspen regen in pockets. Stand was harvested via shelterwood with retention: Blue Line Pine 42-20-17. Cut in winter of 2019/2020. Stand scarified summer of 2020 via contractor. Typical of natural white pine stands in the area. Kalkaska sand.																																																
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29	3102 - Grass	None			1.7			No																																																	
30	4133 - Aspen, Mixed Pine	Sapling Well			25.1	15	1-50	N/A	Stand final harvested as sale #42-030-07-01, Spincich Lake Aspen. Completed 07/02/2010. Good aspen and red maple regeneration. White pine and red pine poles and sawlogs retained after harvest. Areas with higher BA of residual white pine don't have as well stocked aspen regeneration as the more open areas.																																																
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31	42200 - Natural White Pine	Sawtimber Well			22.6	93	81-110	N/A	All age white pine stand. Diameters range from 6 inches to over 22 inches. Much of the stand is very limby. Typical of natural white pine stands in the area. Large diameter white pine is pulp quality (limby). Kalkaska sand. Sale #050-07-02. Completed 9/25/07. Luce County Road Commission widened the Co Rd 415 ROW (approx 10 ft each side of the road) which runs through this stand. Minimal acreage or volume was affected.																																																
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32	6129 - Mixed Coniferous Lowland Forest	Poletimber Well			9.3	93	51-80	N/A	Black spruce with tamarack and white birch. Scattered white pine on higher parts of the stand. Low quality. Wallace-Spot complex.																																																
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																								
33	6225 - Bog	None	1.3			No																																									
34	4130 - Aspen	Poletimber Well	168.5	50	51-80	N/A	Stand recently transitioned from sapling to pole size class. Lots of trees 3-4 inch in diameter in areas still. Understory of cherry and maple. Stand was total tree chipped in 1974. Areas within the stand where merchantable BA is around 70. Silver Creek ORV trail runs through the NE portion of the stand. Old timber sale road entering stand from the SW was bermed.																																								
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35	42200 - Natural White Pine	Sawtimber Well	5.5	150	81-110	N/A	White pine between bog and the young aspen. Kalkaska sand.																																								
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36	6225 - Bog	None	10.9			No	Bog with stunted spruce. Pitcher plants. Dawson, Greenwood and Loxley peats																																								
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37	42200 - Natural White Pine	Sawtimber Well	1.6	120	81-110	N/A	White pine island surrounded by bog. Extends onto the private land. Kalkaska-Okeefe sand.																																								
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38	4119 - Mixed Northern Hardwoods	Poletimber Well	22.1	35	51-80	N/A	Stand was originally part of stand 34 (A6), but due to beaver activity it is now more of an M3 with most of the aspen removed. Zone around the bog with heavy beaver influence. Mostly cherry and maple 4-6 inch dbh. Some large white white holdovers along with some spruce and balsam fir. Kalkaska sand.																																								
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39	6225 - Bog	None	22.8			No	Bog with beaver activity. Dawson, Greenwood and Loxley peats																																								
40	6225 - Bog	None	3.2			No																																									
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
41	4130 - Aspen	Sapling Well	6.4	17	Immature	N/A	Stand harvested as "422 Contract Mix", sale #038-07-01. Complete 10/23/08. Nice aspen regeneration with red maple. Spruce edge left along the bog (stand 40). Kalkaska sand.		
Canopy Species	% Cover	Size Class	DBH	Age					
Red Maple	20	Log	3						
Balsam Fir	5	Log	3						
Black Cherry	10	Log	3						
Quaking Aspen	65	Log	3	17					
42	4130 - Aspen	Sapling Well	97.8	33	Immature	N/A	Stand was cut in 1992, sale #048-91-01. Mainly quaking aspen regeneration with some white birch, red maple, and cherry mixed in. Scattered 6-8 inch aspen and larger "wolfy" white pine that were left after the harvest. Some semi-open areas within the stand are filling in with aspen regeneration. Stand will be transitioning to an aspen pole stand by the next inventory cycle. Kalkaska sand.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Maple	15	Log	3		Black Cherry	Low		5 - 10 feet	5 - 10 feet
Balsam Fir	5	Log	4		Red Maple	High		5 - 10 feet	5 - 10 feet
White Pine	8		8		Balsam Fir	Medium		Variable	Variable
Quaking Aspen	65	Pole	4	33					
Black Cherry	7	Log	3						
43	122 - Road/Parking Lot	None	3.4			No	County Road 415 and cleared Right of Way.		
44	4112 - Maple, Beech, Cherry Association	Poletimber Well	11.3	90	51-80	N/A	Beech is infected with scale (BBD). Even the beech saplings are "coated" with BBD. Maple is in clumps. Understory is primarily beech. Kalkaska sand.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Beech	15		9		Balsam Fir	Low		Variable	Variable
Balsam Fir	5	Sapling	5		Beech	Medium		5 - 10 feet	5 - 10 feet
Paper Birch	10	Sapling	6	40	Red Maple	Medium		5 - 10 feet	5 - 10 feet
Red Maple	70	Seedling	9	90					
45	4130 - Aspen	Sapling Well	66.4	34	Immature	N/A	Stand clearcut in 1991, sale #019-89-01. Nice stand of quaking aspen, 35 ft tall. Some cherry, maple, balsam and spruce mixed in. Understory of maple. Liminga-Alcona soil complex.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Paper Birch	3	Log	2		Black Cherry	Medium		5 - 10 feet	5 - 10 feet
White Pine	7	Sapling	7		Balsam Fir	Low		Variable	Variable
Balsam Fir	5	Pole	4		Red Maple	Medium		5 - 10 feet	5 - 10 feet
Red Maple	15	Log	2						
Quaking Aspen	70	Log	2	34					

Stand	Level 4 Cover Type	Size Density		Acres	Stand Age	BA Range	Managed Site	General Comments																																				
46	42110 - Planted Red Pine	Sapling Medium		64.1	15	Immature	N/A	2025 - Planted red pine stand with substantial amount of volunteer jack pine present. A few larger red pine left after the last harvest.																																				
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Jack Pine</td><td>15</td><td>Log</td><td>1</td><td></td></tr><tr><td>Red Pine</td><td>15</td><td></td><td>10</td><td></td></tr><tr><td>Red Pine</td><td>70</td><td>Log</td><td>1</td><td>15</td></tr></table>									Canopy Species	% Cover	Size Class	DBH	Age	Jack Pine	15	Log	1		Red Pine	15		10		Red Pine	70	Log	1	15																
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06/13/18- Red pine TPA is approximately 508. Strong jack pine regeneration with cherry component.OPIC - FMD: Planted in the spring of 1960. Stand suffered severe wind damage in Oct/Nov 2003. Lots of broken tops and blowdown. Areas with blowdown completely through the strips. Try to prevent budworm problems by salvaging the stand prior to 2007. Salvage stand immediately while the blown down trees are still sound. Follow up the harvest with scarification. Planting may be needed if scarification does not produce the desired jack pine regeneration. Management objective is jack pine. ***Per the request of the Wildlife Ecologist at the Compartment Review, the portion of this stand west of Co Rd 453, now designated as stand 246, will not be regenerated to jack pine following the harvest. The same is true for those portions of stands 47 and 50 that lie west of Co Rd 453, now designated as stands 247and 250 respectively. In return the portion of stand 451 east of Co Rd 453, now designated as stand 452 will be converted to jack pine by trenching and planting. The purpose of the change was to create one large contiguous opening complex rather than have 2 separate openings on opposite sides of a jack pine plantation to better benefit the wildlife using the opening (sharptail) At the same time, the jack pine acreage will be maintained and the wind suseptible strip plantations will be "blocked in". Kalkaska sand. ***Stand harvested as "Weather Station Salvage", sale #035-05-01. Completed 10/18/07. Change in Management Objective: This stand with adjacent stands (47, 49, 50, and 452) will be planted to red pine. This site has a habitat type PArV and is more suited to red pine than Compartment 96, stand 4. This stand with the others listed above will replace C96, St4 which was red pine and will be allowed to regenerate jack pine. The habitat type of C96, St4 is PVE which is more suited to jack pine. C96, St4 is part of the Red Pine Project. Stand planted to red pine in spring 2010 (trenched).FTP 42-656. Aerial release on 9/14/2016.2017: FTP 42-656. Replant low stocking areas, primarily in NE corner of the stand, 5/10/17.																																												
47	42220 - Natural Jack Pine	Poletimber Poor		10.7	35	1-50	N/A	Open stand filling in with jack pine, white pine and aspen. Limby jack pine and white pine. Patchy. Small aspen.																																				
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48	42110 - Planted Red Pine	Poletimber Well		13.4	65	81-110	N/A	Kalkaska sand. ***Stand harvested as "Weather Station Salvage", sale #035-05-01. Completed 10/18/07. This stand was treated by a thinning.																																				
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Red Pine	100		10	65	Red Maple	Low	5 - 10 feet	5 - 10 feet																																				

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments				
49	4211 - Planted Red Pine	Unspecified	24.9	1	Immature		Artificial regen check autumn 2024, FRS contract. Artificial red pine.				
						Sub-Canopy Species	Density	Avg. Height	Size		
						Red Pine	Full	< 5 feet	< 5 feet		
							Target- 933 TPA avg height 0.6 ftNon-target - 0 TPAStand planted to red pine via unfurrowed plant on 5/9/24 to 934 TPA. Average spacing of 7.9 ft. Site spray completed on 7/13/2023.10/29/21 - Decision was made to flat plant this site keeping the original timeline for spraying and planting. Stand split based on different covertime objectives after site prep spray is completed.9/15/2021 - Portion of the site rollerchopped to accommodate planting red pine. Next steps in place and on POW. Stand should be split and MO changed upon completion of trenching. Areas of the stand not trenched will continue as managed opening MO. 1/8/2021 - Portion of this stand was agreed to be planted to red pine. This acreage is to replace the red pine not being planted on the purchased lands in stand 42090091, and red pine acres being converted to other species in 42091059 and 42085004. Large opening with scattered bushy white pine and scattered individual cherry and aspen. Bracken fern and reindeer moss. Kalkaska sand.				
50	4133 - Aspen, Mixed Pine	Poletimber Poor	6.9	30	51-80	N/A	Opening with open grown white pine , jack pine and scattered A2/A3 throughout. Possibly clean up these openings if stand 2 (W6) is shelterwood harvested.				
								Sub-Canopy Species	Density	Avg. Height	Size
								Quaking Aspen	Low	10 - 20 feet	10 - 20 feet
51	42290 - Natural Mixed Pine	Poletimber Poor	2.9	60	1-50	N/A	Liminga-Alcona complex				
								Sub-Canopy Species	Density	Avg. Height	Size
								White Pine	Low	>20 feet	>20 feet
52	4116 - Mixed N. Hardwood - Aspen	Poletimber Medium	30.4	37	1-50	N/A	Stand was cut in 1988, sale #002-87-01. This portion of the cut is coming back as more of an M4 with an A3/M2 component. Mix of maple, cherry and aspen. Lower quality in the pole size trees within the stand. Combined this stand with the adjacent stand to the south, formerly a "U" type. Entire area is maple, cherry and aspen with some semi open areas. Dillingham-Kalkaska complex.				
								Sub-Canopy Species	Density	Avg. Height	Size
								Balsam Fir	Low	Variable	Variable

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments					
53	4130 - Aspen	Poletimber Well	5.7	85	81-110	N/A	Small acreage aspen stand along private property. Some cankers on the aspen. Short, lower quality red maple in spots. Leave for 10 years for diversity. Dillingham-Kalkaska complex					
								Canopy Species	% Cover	Size Class	DBH	Age
								White Pine	5		9	
								Red Maple	30	Seedling	8	
								Quaking Aspen	65		10	85
Sub-Canopy Species	Density	Avg. Height	Size									
Red Maple	Low	10 - 20 feet	10 - 20 feet									
Balsam Fir	Medium	Variable	Variable									
54	6225 - Bog	None	3.7			No	Open bog with an edge of spruce poles					
								Sub-Canopy Species	Density	Avg. Height	Size	
								Black Spruce	Medium	>20 feet	>20 feet	
55	4130 - Aspen	Sapling Well	7.3	37	1-50	N/A	Stand cut in 1988, sale #002-87-01. This portion of the cut is coming back as more of an A3 with an M3 understory. Majority of the regeneration is aspen. Deilingham-Kalkaska complex.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Red Maple	25	Pole	3	
								Quaking Aspen	65	Pole	4	37
								Black Cherry	10	Log	3	
Sub-Canopy Species	Density	Avg. Height	Size									
Red Maple	Medium	5 - 10 feet	5 - 10 feet									
Black Cherry	Medium	5 - 10 feet	5 - 10 feet									
Balsam Fir	Low	Variable	Variable									
56	3102 - Grass	None	69.5			Yes	2025 - Large opening filling in with hardwoods and jack pine. Consider leaving stand or potentially planting to red pine. 6/5/17 - Burn completed 4/25/17 W42-662. Continue monitoring woody competition and potential future mechanical methods to help reduce them. Large grass opening filling in with small aspen and cherry. Kalkaska sand. Per the request of the Wildlife Ecologist at the 2005 Compartment Review, the portion of this stand east of Co Rd 453 (now designated as stand 57) will now be converted to red pine via planting in return for stands 246, 247, and 250 (originally parts of stands 46, 47, and 50 respectively) being maintained as an opening. See notes on stand 452.					

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																				
57	42111 - Planted Red Pine, Mixed Deciduous	Sapling Medium	53.1	15	Immature	N/A	06/13/18- Redpine TPA is approximately 609. Cherry and aspen component.OPIC - FMD: Large grass opening filling in with small aspen and cherry. Old plow lines around the edges of the stand (N,E, & W). Possible old fire or RX burn?? No records found to support either. This stand was created from the portion of the original stand 451 lying east of Co Rd 453 as a result of discussion at the Compartment Review. Per the request of the Wildlife Ecologist, this stand will be converted to jack pine through trenching and planting in return for stands 246, 247, and 250 (originally parts of stands 46, 47, and 50 respectively) being maintained as a grass opening complex. The purpose of the change was to create one large contiguous opening complex rather than 2 separate openings on opposite sides of the jack pine plantation while still blocking in and maintaining the same acreage of jack pine. The stand will be trenched and planted in conjunction with the planting of stand 47 and 49 and the scarification of stands 46 and 50. Management Objective is jack pine. Kalkaska sand. ***Change in Management Objective: This stand with adjacent stands (46, 47, 49, and 50) will be planted to red pine. This site has a habitat type PARv and is more suited to red pine than Compartment 96, stand 4. This stand with the others listed above will replace C96, St4 which was red pine and will be allowed to regenerate jack pine. The habitat type of C96, St4 is PVE which is more suited to jack pine. C96, St4 is part of the Red Pine Project.FTP 42-656. Aerial release on 9/14/2016. Skipped several small maple ridge inclusions.2017: FTP 42-656. Replant low stocking areas, primarily on eastern half of the stand, 5/10/17.																				
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58	4130 - Aspen	Sapling Well	48.1	37	1-50	N/A	Sale #002-87-01. Completed June 1988. Nice aspen regeneration. Very thick. Stand beginning to transition to a pole size stand, 10-30 BA in pole size. Good component of maple. Kalkaska sand.																				
<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>70</td><td>Pole</td><td>4</td><td>37</td></tr><tr><td>Red Maple</td><td>20</td><td>Log</td><td>4</td><td></td></tr><tr><td>Black Cherry</td><td>10</td><td>Log</td><td>4</td><td></td></tr></table>								Canopy Species	% Cover	Size Class	DBH	Age	Quaking Aspen	70	Pole	4	37	Red Maple	20	Log	4		Black Cherry	10	Log	4	
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59	6225 - Bog	None	2.4			No	Small bog with spruce edge surrounded by aspen																				
60	4112 - Maple, Beech, Cherry Association	Poletimber Well	14.9	95	51-80	N/A	Mix of red and sugar maple. Thick F3 understory and more of an M5 along the eastern edge. Component of aspen, especially near stand edge as well as some white pine. Kalkaska sand. Harvested via Selection cut in 2017. Kelly Lake MWR #007-17. Occasional WP and A left.																				
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61	3102 - Grass	None	4.8			No	Openings with aspen encroachment. Kalkaska sand.																				

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																														
62	4130 - Aspen	Sapling Well	5.7	37	1-50	N/A	Young aspen filling in the opening between two timber sales.																																														
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63	4130 - Aspen	Sapling Well	6.8	24	Immature	N/A	Sale #028-97-01, "Speckled Aspen". 4 different patches (includes stand 62). Quaking aspen . Nice regeneration. Kalkaska sand.																																														
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64	4130 - Aspen	Sapling Well	11.4	24	Immature	N/A	Sale #028-97-01, "Speckled Aspen". 4 different patches (includes stand 63 - 3 patches). Quaking aspen . Nice regeneration. Kalkaska sand.																																														
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65	4112 - Maple, Beech, Cherry Association	Poletimber Well	25.2	95	81-110	N/A	Stand cut via selection harvest as "455 Contract Hardwoods", sale #039-07-01. Complete 5/08/09. Regeneration check needed in 2013. Conifer patches were not harvested. Component of large spruce and occasional hemlock.																																														
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66	3102 - Grass	None	41.8			No	Open, rolling hills. Scattered cherry, white pine and aspen. Snowmobile trail runs through stand.																																														
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67	4130 - Aspen	Sapling Well	33.4	34	Immature	N/A	Clearcut in 1990. Nice thick regeneration. Quaking aspen with some maple and cherry. Kalkaska sand.																																														
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
68	122 - Road/Parking Lot	None	11.1			No	County Road 455 Right-of-Way		
69	122 - Road/Parking Lot	None	1.9			No	County Road 455 Right-of-Way		
70	42200 - Natural White Pine	Poletimber Well	7.6	93	51-80	N/A	Limby white pine, clones of aspen. Some white birch. Kalkaska sand (burned).		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
White Pine	85		9	93	Red Maple	Low		5 - 10 feet	5 - 10 feet
Quaking Aspen	13	Seedling	7	50	White Pine	Low		Variable	Variable
Paper Birch	2	Seedling	8						
71	4311 - Pine, Aspen Mix	Sapling Medium	16.5	30	Immature	N/A	Open area filling in with small aspen jack pine with some small open grown white pine and scattered cherry. Pockets of pole size aspen. Semi open stand. Kalkaska sand (burned).		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Jack Pine	40	Pole	4		Cherry (spp.)	Low		5 - 10 feet	5 - 10 feet
Quaking Aspen	45	Pole	4	30	Quaking Aspen	Medium		5 - 10 feet	5 - 10 feet
White Pine	15	Sapling	5						
72	3102 - Grass	None	13.0			No	2025 - Opening filling in with white pine and aspen, cherry, and red maple. Kalkaska sand		
73	4133 - Aspen, Mixed Pine	Poletimber Medium	26.8	35	1-50	N/A	Short, low quality aspen. Clones starting to fill in the open areas. Aspen, with white pine, jack pine and some cherry and maple. Pockets of short, pole size aspen throughout. Limby white pine poles. Semi open stand still but beginning to fill in nicely. A4/A3/W4 Kalkaska sand.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Quaking Aspen	55	Sapling	5	35	Balsam Fir	Low		Variable	Variable
White Pine	25	Sapling	6		Cherry (spp.)	Low		Variable	Variable
Jack Pine	15	Pole	4		Quaking Aspen	Medium		5 - 10 feet	5 - 10 feet
Red Maple	5	Log	3						
74	122 - Road/Parking Lot	None	4.7			No	County Road 415 and cleared Right of Way		
75	4133 - Aspen, Mixed Pine	Sawtimber Well	9.4	65	81-110	N/A	Clones of mature aspen and open areas along a north/south ridge. White pine and jack pine along the edges of the ridge. 110 BA average in the aspen clones. Hold stand for 10 years, aspen is fairly healthy. Kalkaska sand.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
White Pine	25		10		Maple (spp.)	Low		5 - 10 feet	5 - 10 feet
Jack Pine	15		9		White Pine	Low		Variable	Variable
Quaking Aspen	60		11	65					
76	3102 - Grass	None	3.8			No	Opening with small aspen patches and individual limby white pine. Kalkaska sand (burned).		
77	3102 - Grass	None	12.1			No	Opening filling in with concentration of trees on the south end. White pine, spruce, aspen, and maple.		

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
78	4130 - Aspen	Sapling Well	6.3	26	Immature	N/A	Final harvest in 1999. "Silver Creek Aspen" timbe sale (25-97-01). 15-20 ft aspen with scattered residual white pine and spruce. Occasional residual red maple poles.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
White Pine	10	Seedling	8		Red Maple	Medium		5 - 10 feet	5 - 10 feet
White Spruce	5	Seedling	8		Balsam Fir	Low		Variable	Variable
Quaking Aspen	65	Log	2	26					
Red Maple	20	Pole	2						
79	3102 - Grass	None	14.9			No	Large grass opening with some old white pie stumps. Rolling hills. Kalkaska sand.		
80	4136 - Aspen, Mixed Conifer	Sapling Well	12.9	26	Immature	N/A	Cut in 1999, "Silver Creek Aspen" timber sale, #25-97-01. Mainly quaking aspen 15-20 ft tall, some good white pine regeneration. Kalkaska sand.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Maple	10	Log	4		Balsam Fir	Low		Variable	Variable
Balsam Fir	10	Sapling	6						
Quaking Aspen	65	Log	4	26					
White Pine	10	Pole	4						
White Spruce	5	Log	3						
81	6225 - Bog	None	1.4			No			
82	500 - Water	None	18.8			No	Silver Creek Trout Pond.		
83	42320 - Upland Spruce	Poletimber Well	31.0	85	51-80	N/A	Upland spruce with white pine. Borders the upper portions of the Silver Creek Trout Pond.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
White Spruce	65		9	85	Maple (spp.)	Low		10 - 20 feet	10 - 20 feet
White Pine	20		11		Balsam Fir	Low		Variable	Variable
Balsam Fir	15	Seedling	8						
84	4130 - Aspen	Sapling Well	13.0	26	Immature	N/A	Cut in 1999, "Silver Creek Aspen" sale #25-97-01. Nice quality, thick aspen regeneration 15-20 ft tall. Some residual balsam in pole size. Kalkaska sand.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Balsam Fir	10	Pole	4		Red Maple	Medium		5 - 10 feet	5 - 10 feet
White Pine	5	Sapling	6						
Red Maple	15	Log	3						
Quaking Aspen	70	Log	3	26					
85	42110 - Planted Red Pine	Sawtimber Well	8.4	66	81-110	N/A	Red pine plantation with high component of aspen. Planted in 1959. Stand has not been managed yet. Good aspen component in areas. Porcupine damage in the red pine along the aspen pockets. Kalkaska sand. 2019: Thinned in 2018 as part of Feathered Mirage Red Pine #021-17. Thinned to approximately 140 BA. TCR 2/5/19.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Maple	1	Seedling	8		Balsam Fir	Low		Variable	Variable
White Spruce	1	Seedling	8		Maple (spp.)	Medium		5 - 10 feet	5 - 10 feet
Quaking Aspen	8	Seedling	9						
Red Pine	90		12	66					

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																					
86	4133 - Aspen, Mixed Pine	Poletimber Medium	8.5	40	51-80	N/A	Short, low quality, open grown aspen.																																					
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87	429 - Mixed Upland Conifers	Sawtimber Well	37.8	120	81-110	N/A	White pine, hemlock, and spruce along the bank of the Silver Creek and Silver Creek Trout Pond. Steep slope.																																					
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Black Spruce</td><td>20</td><td>Seedling</td><td>9</td><td></td></tr><tr><td>Hemlock</td><td>20</td><td></td><td>12</td><td></td></tr><tr><td>White Pine</td><td>55</td><td></td><td>12</td><td>120</td></tr><tr><td>Red Maple</td><td>5</td><td></td><td>9</td><td></td></tr></table>			Canopy Species	% Cover	Size Class	DBH	Age	Black Spruce	20	Seedling	9		Hemlock	20		12		White Pine	55		12	120	Red Maple	5		9		<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Balsam Fir</td><td>Medium</td><td>Variable</td><td>Variable</td></tr><tr><td>Maple (spp.)</td><td>Low</td><td>10 - 20 feet</td><td>10 - 20 feet</td></tr></table>			Sub-Canopy Species	Density	Avg. Height	Size	Balsam Fir	Medium	Variable	Variable	Maple (spp.)	Low	10 - 20 feet	10 - 20 feet		
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88	42110 - Planted Red Pine	Sawtimber Well	19.2	66	81-110	N/A	Planted in 1959. Semi open red pine stand with aspen. Shorter, limby red pine, 3-4 sticks tall. Fair amount of porcupine damage to pine along stand edge. Kalkaska sands.																																					
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Jack Pine</td><td>5</td><td>Seedling</td><td>8</td><td></td></tr><tr><td>Quaking Aspen</td><td>15</td><td>Seedling</td><td>9</td><td></td></tr><tr><td>Red Pine</td><td>80</td><td></td><td>10</td><td>66</td></tr></table>			Canopy Species	% Cover	Size Class	DBH	Age	Jack Pine	5	Seedling	8		Quaking Aspen	15	Seedling	9		Red Pine	80		10	66	<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Balsam Fir</td><td>Low</td><td>Variable</td><td>Variable</td></tr><tr><td>Red Maple</td><td>Medium</td><td>10 - 20 feet</td><td>10 - 20 feet</td></tr></table>			Sub-Canopy Species	Density	Avg. Height	Size	Balsam Fir	Low	Variable	Variable	Red Maple	Medium	10 - 20 feet	10 - 20 feet							
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89	42120 - Planted Jack Pine	Poletimber Well	55.6	51	81-110	N/A	Stand was planted with red pine in 1959 and then replanted with jack pine in 1974. Young Jack pine pole stand now. Still some jack pine below merchantable diameter. Better quality in the south end, larger diameter. A fire on May 24, 2000 entered into the western edge of the stand, 1-2 acres. Control line around the bruned area is now an abandoned road. Red pine throughout the stand from the planting in 1959.																																					
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90	3102 - Grass	None	21.7			No	Opening filling in with white pine, red pine, aspen, jack pine, and some maple.																																					
91	4319 - Mixed Upland Forest	Unspecified	69.0	4	Immature		After sale was cut in 2018 red and white pine were left scattered within stand as well as WLD planting red oak throughout the stand.																																					
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																														
92	42201 - Natural White Pine, Mixed Deciduous	Sawtimber Well	92.0	87	81-110	N/A	Mixed stand, multiple ages of white pine in multiple size classes. large white pine is limby and low quality (weeviled). Lots of smaller, 6-10 inch white pine. Pockets of aspen. Maple poles mixed in. Outer portions of the stand contain more mature aspen clones and clumpy red maple. Center portion of the stand is smaller, thicker white pine. Kalkaska sand (burned).																																														
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93	4112 - Maple, Beech, Cherry Association	Poletimber Well	14.8	95	81-110	N/A	Stand cut via selection harvest as "455 Contract Hardwoods", sale #039-07-01. Complete 5/08/09. Current BA average 80-90. Some good quality through the stand. Tall red maple. Some maple with tops broken off and dieback in some crowns. Scattered yellow birch and areas of larger diameter red maple. Occasional beech and hemlock. Wallace sands.																																														
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94	3102 - Grass	None	3.4			No	Parking area and grass opening at the Silver Creek Trout Pond dam.																																														
95	6124 - Lowland Spruce-Fir	Poletimber Well	6.9	104	81-110	N/A	Stand borders the south edge of Silver Creek Trout Pond parking lot and along Silver Creek.																																														
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96	6122 - Black Spruce	Poletimber Well	7.0	104	81-110	N/A	Mainly black spruce with tamarack, white birch, red maple and white pine. Along Silver Creek. Paquin sand																																														
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97	622 - Lowland Shrub	None	14.3			No	Lowland brush corridor around Silver Creek.																																														

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
98	4122 - Oak, Pine	Unspecified	17.9	1	Immature		<p>Stand planted to red OAK and white pine on 5/16/24 to 934TPA. Average spacing of 7.8ft. 8/9/2023 - Stand split based on previously modified management objectives. Portion of stand 20 east of the snowmobile trail is now a separate stand. Portion that will be planted with oak/white pine also a separate stand. 9/15/2021 - Portion of the site roller chopped to accommodate planting red pine.</p> <p>1/8/2021 - Portion of stand 20 east of the snowmobile trail and within the existing burn lines/two track roads, was agreed to be planted to red pine. This acreage is to replace the red pine not being planted on the purchased lands in stand 42090091, 42091059 and 42085004.</p> <p>6/5/17 - Burn completed 4/25/2017 FTP W42-662. Assess for future monitoring and mechanical methods of woody reduction. Large opening being maintained by prescribed burns. Weather Station Rx Burn. Forest Treatment Proposal (FTP #) calls for multiple burns over a period of years to successfully kill the encroaching aspen, cherry and white pine, to maintain the opening. Portion of the stand east of Co Rd 453 burned very successfully, knocking back the encroachment. Stump sprouting of cherry and new aspen regeneration is beginning. Another burn is necessary. Portion of the stand west of Co Rd 453 didn't burn as well and has a lot of encroachment still...needs to be burned again. Old Notes: Large grass opening filling in with small aspen and cherry. Prescribed burn to maintain as a large grass opening, reduce the aspen and cherry encroachment. Also reduce the bracken fern and mosses, promoting more grasses and forage. Historically a sharptail grouse area, so try to establish favorable open habitat. Repetitive burning may be needed until the objective is accomplished. Kalkaska sand.</p>
99	3102 - Grass	None	3.2			No	Grassy opening with a few white pine and aspen filling in.
100	4112 - Maple, Beech, Cherry Association	Poletimber Well	5.9	95	81-110	N/A	<p>Stand is an extension of the larger hardwood stand in Compartment 102 (stand 64). Poor quality red maple with scattered hemlock. Beech in the stand has beech scale. Stand was to be treated with adjacent stand to south in Comp 102 but didn't get treated. Small stand. Hold for 10 years. Kalkaska sand.</p>
101	4112 - Maple, Beech, Cherry Association	Poletimber Medium	4.7	80	1-50	N/A	<p>Semi open cherry and maple. Scattered merchantable cherry. Aspen and white pine. Kalkaska sand</p>

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
102	42110 - Planted Red Pine	Sawtimber Well	96.8	66	111-140	N/A	2019: Thinned in 2018 as part of Feathered Mirage Red Pine #021-17. Thinned to approximately 100-120 BA. TCR 2/5/19. Left all non-pine for wildlife diversity.Planted in 1959. Stand thinned as "Silver Creek Red Pine" sale #42-029-07-01. Completed 6/19/08. 3rd row thinning. Some areas had 2 rows removed where rows were tightly spaced. Red pine is averaging 9-11 inch diameter. Still more of an R6 with areas of R9.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Pine	100		10	66	Red Maple	Low		5 - 10 feet	5 - 10 feet
					Balsam Fir	Low		Variable	Variable
103	42140 - Planted Mixed Pine	Sawtimber Well	18.8	66	81-110	N/A	2025 - Larger red pine stand with some white mixed throughout. Smaller pole size deciduous trees within stand. Planted in 1959. Stand was thinned as sale #42-029-07-01, Silver Creek Red Pine. Completed 06/19/2008. Open in areas. Larger diameters near the open areas. Stand is more open than stand 102. Larger diameters, more open grown in many areas. BA of 100-120 average. Check for management in 10 years.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Maple	5	Sapling	5		Balsam Fir	Low		Variable	Variable
White Pine	15		14		Maple (spp.)	Medium		Variable	Variable
Quaking Aspen	5	Sapling	5						
Paper Birch	2	Seedling	9						
Red Pine	58		10	66					
Balsam Fir	5	Sapling	5						
White Spruce	10		10						
104	4133 - Aspen, Mixed Pine	Poletimber Well	4.0	53	81-110	N/A	Edge of the adjacent red pine stand. Mix of aspen with red pine and white pine. Kalkaska sand.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Quaking Aspen	60		9	53	Maple (spp.)	Medium		5 - 10 feet	5 - 10 feet
White Pine	25		9		Balsam Fir	Low		Variable	Variable
Red Maple	15	Seedling	8		Quaking Aspen	Medium	5 - 10 feet	5 - 10 feet	
105	42200 - Natural White Pine	Poletimber Medium	9.7	100	1-50	N/A	Open areas with scrubby, limby white pine (cabbage pine). Pockets of larger white pine with higher BA. Clumps of merchantable aspen. Kalkaska sand.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Quaking Aspen	20	Seedling	9		Red Maple	Low		Variable	Variable
White Pine	80		8	100	White Pine	Medium	Variable	Variable	
106	4112 - Maple, Beech, Cherry Association	Poletimber Well	25.7	95	51-80	N/A	Stand thinned as sale #036-97-01. Hard maple with red maple and small components of cherry, beech, spruce. Occasional hemlock. Good quality in the hard maple 8-10 inch poles. Quality decreases and BA is lower in the northern portion of the stand near county road 455. Scattered large diameter spruce. Beech in the stand is dying out. Good maple regeneration from the previous harvest. Kalkaska sand. 11/26/18: Harvested via Selection cut in 2017. Kelly Lake MWR #007-17. 5-11-19 ten oak trees planted by wildlife in the turn around loop		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Sugar Maple	75		8	95	Maple (spp.)	High		10 - 20 feet	10 - 20 feet
Red Maple	21		9		Balsam Fir	Medium		Variable	Variable
White Spruce	2		12		Beech	Medium		10 - 20 feet	10 - 20 feet
Black Cherry	2	Seedling	9	50					
107	3102 - Grass	None	21.6			No	Opening with pockets of A2/A4. Rolling hills. Kalkaska sand (burned).		

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																		
108	4130 - Aspen	Poletimber Well	24.0	35	51-80	N/A	Clearcut in 1990. Nice thick regeneration. Quaking aspen with some maple and cherry. Kalkaska sand.																																																		
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109	4130 - Aspen	Sapling Well	2.4	24	Immature	N/A	Stand was cut as part of sale #036-97-01, "Running Bear Hardwoods". Complete 04-11-00. All aspen, hardwoods and balsam were removed. Young aspen regeneration is thick.																																																		
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110	4112 - Maple, Beech, Cherry Association	Poletimber Well	29.7	95	81-110	N/A	Stand thinned as sale #036-97-01. Hard maple with red maple and small components of cherry, beech, spruce. Occasional hemlock. Good quality in the hard maple 8-10 inch poles. Quality decreases and BA is lower in the northern portion of the stand near county road 455. Scattered large diameter spruce. Beech in the stand is dying out. Good maple regeneration from the previous harvest. Kalkaska sand. 11/26/18: Stand is part of MWR research project. Harvested via Selection cut with 13 small clearcut gaps totaling 1.95 acres. These gaps will continue to be within the research project with follow-up activities of herbicide and scarification. FTP 42-920. Site was sprayed/scarified summer/fall 2020. A blanket monitoring treatment applied to all MWR sites on the unit per TMS guidelines.																																																		
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111	3102 - Grass	None	4.9			No	small grass opening.																																																		
112	42110 - Planted Red Pine	Poletimber Well	14.4	66	141-170	N/A	Portion of stand 102 that was not part of the thinning due to proximity to the Silver Creek and the Silver Creek Trout Pond. Planted in 1959. Kalkaska sand.																																																		
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
114	4130 - Aspen	Poletimber Well	137.0	33	1-50	N/A	Sale #019-89-01. Completed fall of 1991. Aspen regeneration with maple mixed in. Stand is beginning to transition to a pole size stand, areas of up to 30 BA of pole size aspen. Still predominantly sapling stand. Kalkaska sand (burned).		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Balsam Fir	8	Sapling	5		Black Cherry	Medium		5 - 10 feet	5 - 10 feet
Paper Birch	3	Sapling	5		Maple (spp.)	High		5 - 10 feet	5 - 10 feet
White Spruce	7	Sapling	5						
Red Maple	15	Pole	4						
Quaking Aspen	65	Sapling	5	33					
White Pine	2	Sapling	5						
115	4319 - Mixed Upland Forest	Poletimber Well	7.0	97	51-80	N/A	Mainly balsam, spruce and aspen with some red maple. Some tamarack near Silver Creek. Very eastern end is more spruce and balsam along steep slope down to the trout pond. Stand extends down into Comp 102 to the south (stand 13). Paquin sand		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Balsam Fir	40	Seedling	8	97	Balsam Fir	Medium		Variable	Variable
Quaking Aspen	30		10		Red Maple	Medium		10 - 20 feet	10 - 20 feet
Paper Birch	5	Sapling	6		White Spruce	Low		10 - 20 feet	10 - 20 feet
White Spruce	15		9		White Pine	Low		10 - 20 feet	10 - 20 feet
Red Maple	10	Seedling	8						
116	500 - Water	None	1.6			No		North end of Brockies Trout Pond	
117	4110 - Sugar Maple Association	Poletimber Well	6.2	95	51-80	N/A	Small patches of hardwoods with young aspen adjacent on all sides. Nice pocket of hard maple, decent quality. A few large aspen. Fair amount of aspen encroachment (edge effect). Harvested via Selection cut in 2017. Kelly Lake MWR #007-17. Aspen component left.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Quaking Aspen	2		12		Sugar Maple	High		5 - 10 feet	5 - 10 feet
Sugar Maple	98		9	95	Balsam Fir	Medium		Variable	Variable
118	4130 - Aspen	Poletimber Medium	3.4	35	1-50	N/A	Pockets/clones of aspen with maple and cherry. Occasional white pine, limby. Hawthorne bushes throughout the area.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Black Cherry	7	Log	4		Hawthorn (spp.)	Low		5 - 10 feet	5 - 10 feet
Red Maple	20	Log	4		Red Maple	Medium		5 - 10 feet	5 - 10 feet
Quaking Aspen	70	Sapling	5	35					
White Pine	3	Sapling	7						
119	4130 - Aspen	Sapling Well	20.3	24	Immature	N/A	Sale #028-97-01, completed 02-01-01. Nice aspen regeneration with red maple. Kalkaska sand (burned).		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Maple	20	Log	3		Balsam Fir	Medium		Variable	Variable
White Spruce	5	Log	4		Maple (spp.)	High		5 - 10 feet	5 - 10 feet
Black Cherry	5	Log	3						
Quaking Aspen	70	Log	3	24					

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
120	4110 - Sugar Maple Association	Poletimber Well	6.1	95	51-80	N/A	Small patches of hardwoods with young aspen adjacent on all sides. Nice pocket of hard maple, decent quality. A few large aspen. Some encroachment of young aspen along the edges (understory). Kalkaska sand. Harvested via Selection cut in 2017. Kelly Lake MWR #007-17. Aspen component left.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Sugar Maple	98		9	95	Sugar Maple	High		5 - 10 feet	5 - 10 feet
Quaking Aspen	2		12		Balsam Fir	Medium		Variable	Variable
121	4117 - Mixed N. Hardwood - Pine	Poletimber Medium	43.0	82	51-80	N/A	Open stand with maple and cherry. Poor quality in sugar maple. Areas with mostly cherry. Kalkaska sand (burned).		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Sugar Maple	35	Seedling	9	82	Maple (spp.)	Medium		5 - 10 feet	5 - 10 feet
White Spruce	10	Seedling	8		Quaking Aspen	Low		5 - 10 feet	5 - 10 feet
Black Cherry	35	Seedling	8		Cherry (spp.)	Medium		5 - 10 feet	5 - 10 feet
White Pine	20		9		Balsam Fir	Low		Variable	Variable
122	42200 - Natural White Pine	Poletimber Medium	21.7	100	1-50	N/A	Open areas with scrubby, limby white pine (cabbage pine). Pockets of larger white pine with higher BA. Clumps of merchantable aspen. Kalkaska sand.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Quaking Aspen	20	Seedling	9		White Pine	Medium		Variable	Variable
White Pine	80		8	100	Red Maple	Low		Variable	Variable
125	3102 - Grass	None	10.4			No	Openings with aspen encroachment. Kalkaska sand.		
126	4130 - Aspen	Poletimber Medium	11.7	37	1-50	N/A	Small aspen. Some merchantable with pockets of hardwoods (mainly cherry). Areas in stand are more of a "U" type. Kalkaska sand (burned).		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Black Cherry	15	Sapling	6		Cherry (spp.)	Low		5 - 10 feet	5 - 10 feet
Red Maple	10	Log	3		Balsam Fir	Low		Variable	Variable
Quaking Aspen	70	Sapling	6	37	Maple (spp.)	Medium		5 - 10 feet	5 - 10 feet
White Pine	5	Seedling	7						
127	4130 - Aspen	Poletimber Well	39.6	38	1-50	N/A	Thick aspen regeneration. Western portion of the stand has more maple and cherry mixed in. Stand is beginning to transition from a sapling to pole size stand. Areas of 30-40 BA of pole size trees, many areas are still sapling size.Old notes (1993): Steep slopes not cut cleanly, scattered hardwood residual left throughout stand. Kalkaska sand.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Quaking Aspen	65	Sapling	5	38	Red Maple	Medium		5 - 10 feet	5 - 10 feet
White Pine	2		11		Balsam Fir	Medium		Variable	Variable
Black Cherry	10	Log	4						
Red Maple	20	Sapling	5						
White Spruce	3		12						
128	6225 - Bog	None	19.0			No	Sphagnum Bog		

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
129	4130 - Aspen	Sapling Well	2.8	15	Immature	N/A	Stand harvested via final harvest as sale #040-07-01, Red's Lake Mix. Completed 05/13/10. Stand is regenerating well. Thick aspen regeneration with maple and cherry, balsam and spruce scattered throughout. Regen is 10+ ft tall.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
White Pine	2		12		Cherry (spp.)	High		5 - 10 feet	5 - 10 feet
Quaking Aspen	73	Log	1	15	Maple (spp.)	High		5 - 10 feet	5 - 10 feet
Black Spruce	10	Sapling	6						
Red Maple	15	Log	1						
130	42340 - Upland Spruce/Fir	Poletimber Well	4.6	80	81-110	N/A	Stand consists of the spruce/balsam edge around the bog as well as the "buffer" left from the adjacent timber sale. Balsam fir, white pine, spruce, maple. Beaver have influenced the composition of this stand. Most of the aspen has been "removed". Remaining stand is all aged with white pine, spruce, balsam, maple and white birch. Liminga-Alcona complex.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Balsam Fir	40	Seedling	8	80	Balsam Fir	Medium		Variable	Variable
White Pine	20		12						
White Spruce	20	Seedling	9						
Red Maple	20	Seedling	9						
131	6225 - Bog	None	0.9			No			
133	4130 - Aspen	Sapling Well	72.6	7	Immature	N/A	2024- Fully stocked aspen stand with mixed deciduous and conifers scattered throughout the stand. Some large overstory white pine remain as well. Clearcut in 2018 as part of Missing Fingers Aspen, #026-17. Retention pockets left - mostly as "fingers" cut off.		
Canopy Species	% Cover	Size Class	DBH	Age					
White Spruce	1		12						
Red Maple	10	Log	1						
Black Cherry	10	Log	1						
Quaking Aspen	68	Log	1	7					
White Pine	1		14						
Quaking Aspen	5		12						
Paper Birch	5		9						
134	3102 - Grass	None	48.1			No	Open, pockets of aspen, cherry, white pine, some spruce, and some hawthorne.		
135	6122 - Black Spruce	Poletimber Well	3.1	93	81-110	N/A	Small pocket of black spruce surrounded by aspen. Low ground. Some tamarack and white pine. Liminga-Alcona complex		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Black Spruce	80	Seedling	8	93	Black Spruce	Low		Variable	Variable
White Pine	10		10		Balsam Fir	Low		Variable	Variable
Tamarack	10	Seedling	8						
136	3102 - Grass	None	2.9			No	Small opening filling in with white pine, maple, and aspen.		

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																					
137	4199 - Other Mixed Upland Deciduous	Sawtimber Well	19.6	72	81-110	N/A	Aspen with some "wolfy" maple. Scattered mature aspen over younger maple. Areas with more white birch. Areas in the stand that are open. Higher component of balsam mixed in along the private property. Pockets of M5/M6, multiple stem sugar maple.. Smaller diameters near the county road. Mixed stand with a high maple component. Held for 10 years for age class diversity. Lost some of the aspen component due to age and condition. Private Land to the east has been cut and is young aspen. Many of the aspen stands in close proximity to this stand are prescribed for harvest or have recently been harvested. Liminga-Alcona loam soil.																																																					
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138	3102 - Grass	None	9.1			No	Open, pockets of aspen, cherry, white pine, spruce and scattered maple.																																																					
139	4139 - Aspen, Mixed Deciduous	Sapling Well	38.6	15	Immature	N/A	Stand harvested via final harvest as sale #027-07-01, 455 Aspen. Completed 07/02/10. White birch left as residual, as well as some cherry, low quality maple and white pine. Good aspen and maple regeneration. There are a couple apple trees in the stand along the county road right of way.																																																					
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140	3102 - Grass	None	3.6			No	Opening with large spruce.																																																					
141	4130 - Aspen	Sapling Well	19.6	27	Immature	N/A	Stand cut as sale #027-97-01, "Three Road Aspen". Aspen regeneration is thick with a mix of red maple. White birch and cherry. Small component of balsam and spruce. Scattered white pine. A few open areas within the stand, filling in. Couple apple trees along western stand edge.																																																					
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142	4130 - Aspen	Sapling Well	25.6	7	Immature	N/A	2024 - 2024- Fully stocked aspen stand with mixed deciduous and conifers scattered throughout the stand. Some large overstory white pine remain as well.																																																					
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143	3102 - Grass	None	6.9			No	Opening with large spruce. Kalkaska sand (burned).																																																					

Stand	Level 4 Cover Type	Size	Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																														
144	3102 - Grass	None		5.2			No	Snowmobile trail runs through the stand.																																														
145	4134 - Aspen, Spruce/Fir	Poletimber	Medium	12.7	60	51-80	N/A	Open with patches of timber. Aspen with spruce, balsam, and maple, limby white pine. Opening is filling in with merchantable timber. Check in 10 years. Good diversity. Kalkaska sand.																																														
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146	4139 - Aspen, Mixed Deciduous	Sapling	Well	8.0	15	Immature	N/A	Stand harvested via final harvest as sale #027-07-01, 455 Aspen. Completed 07/02/10. Good aspen and maple regeneration. Fair amount of pole size trees retained after harvest. Thick stand. Kalkaska sand.																																														
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147	4136 - Aspen, Mixed Conifer	Poletimber	Poor	20.1	42	1-50	N/A	Opening with large spruce, aspen clones and scattered maple. Stand was a larger "G" type but has filled in with sapling and pole size trees. Kalkaska sand (burned).																																														
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149	4110 - Sugar Maple Association	Poletimber	Well	7.6	95	81-110	N/A	Small acreage maple stand. Some good quality sugar maple. Parts of the stand are more open with some aspen. Stand continues across compartment boundary into C. 102. Kalkaska sand.																																														
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150	4139 - Aspen, Mixed Deciduous	Sapling	Well	5.2	15	Immature	N/A	Stand harvested via final harvest as sale #027-07-01, 455 Aspen. Completed 07/02/10. Good aspen and maple regeneration. Fair amount of pole size trees retained after harvest. Thick stand. Kalkaska sand.																																														
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
151	4130 - Aspen	Sapling Well	1.6	30	Immature	N/A	Young aspen, sale #30-93-01. Completed 1995. Stand was harvested at the same time as stand 4 in compartment 102. Liminga-Alcona soil complex.			
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
	Quaking Aspen	85	Log	2	30	Red Maple		Medium	Variable	Variable
	Red Maple	15	Log	2		Balsam Fir		Low	Variable	Variable
						Black Cherry		Medium	5 - 10 feet	5 - 10 feet
152	4130 - Aspen	Sapling Well	5.1	27	Immature	N/A	Stand cut as sale #027-97-01, "Three Road Aspen". Aspen regeneration is thick with a mix of red maple.			
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
	Quaking Aspen	65	Log	2	27	Cherry (spp.)		Medium	5 - 10 feet	5 - 10 feet
	White Pine	5		7		Maple (spp.)		Medium	5 - 10 feet	5 - 10 feet
	Red Maple	25	Log	2						
	Balsam Fir	5	Pole	4						
153	42200 - Natural White Pine	Poletimber Medium	5.4	95	51-80	N/A	Opening filling in with white pine, spruce and balsam. Open grown, limby white pine. Kalkaska sand.			
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
	White Pine	65		9	95	Quaking Aspen		Medium	5 - 10 feet	5 - 10 feet
	White Spruce	15		9		Balsam Fir		Low	Variable	Variable
	Black Cherry	10	Seedling	8						
	Quaking Aspen	10	Seedling	8						
154	4199 - Other Mixed Upland Deciduous	Poletimber Well	5.7	75	81-110	N/A	Mixed stand of low quality red maple, aspen and white pine. Clones of aspen, mature. Pockets of stand are more red maple.			
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
	White Pine	15		9		Maple (spp.)		Medium	Variable	Variable
	Red Maple	55	Seedling	8	75	Balsam Fir		Low	Variable	Variable
	Quaking Aspen	30		10						
155	3102 - Grass	None	39.9			No	Open grass stand with scattered aspen, cherry and limby white pine. Kalkaska sand (burned). 30 apple trees planted around opening by wildlife			
157	6225 - Bog	None	1.1			No				