

Compartment Review Presentation

Newberry Forest Management Unit

Compartment 42088

Entry Year: 2027

Acreage: 1,296

County: Luce

Management Area: Grand Marais Moraine Complex

Stand Examiner: Amy Livermore

Legal Description:

T47N R10W Sections 19, 30 & 31

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. 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, not only within the compartment boundaries but also in relation to the adjacent resource. Harvest treatments will be increased in red pine stand which are silviculturally ready for management. Red pine stands will be harvested, burned and planted back to red pine. Due to a spruce budworm outbreak, spruce plantations in northern reaches of the compartment will be harvested, a number of which will be planted back to red pine. All management activities adjacent to Luce County Lease Lands should take into consideration the current management on those afore mentioned lands.

Soil and topography:

The predominant soil type of the compartment is a Liminga-Alcona complex; a fine sand to sandy loam soil type found on ground moraines or lake plains. Kalkaska sand (burned), an outwash sand, is also found throughout much of the compartment. Small pockets of lower ground consisting of bogs and treed bogs are scattered across the compartment. The overall topography of the compartment is level to slightly rolling.

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

Ownership pattern within and adjacent to this compartment is mixed. State lands are adjacent to the north and west with one private parcel bordering on the western compartment boundary. To the south is a mix of State land and private land. The eastern compartment boundary is bordered primarily by private ownership. Within the compartment the State lands form contiguous blocks with numerous small acreage private parcels adjacent to those blocks. While still under State ownership, some parcels within the compartment are under lease with Luce County. Development is moderate with many permanent residences, along with seasonal camps and cabins throughout the vicinity. Land use of the area is high. The main types of land use include hunting, ORV use and snowmobiling.

Unique Natural Features:

MNFI has not identified any species of concern within the compartment. The potential exists for various threatened and endangered flora and fauna.

Archeological, Historical, and Cultural Features:

Special Management Designations or Considerations:

Approximately 200 acres within the compartment are under a lease agreement with Luce County (coded as Luce County Lease Land). Timber management on those lands is performed by Luce County through Grossman Forestry with approval of the DNR. Management on adjacent State land should take into account possible prescriptions and appropriate timing with harvests on Luce County Lease Land. Compartment 90, also a 2007 YOE compartment, is immediately adjacent to the west. This has been factored into proposed management activities for both compartments.

Watershed and Fisheries Considerations:

Fisheries Concerns: Many of the lakes in and near this compartment are surrounded by private ownership. The ones that are not provide very little in terms of fisheries to the angling public. Outside of some use by amphibians and reptiles the fisheries values here are poor in these waterbodies. Standard BMP's should apply when working near surface water.

Wildlife Habitat Considerations:

Compartment 88- 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 upland hardwoods comprising much of the total area and scattered conifers mixed throughout. Southern portions of the compartment have more ed pine and openings. Mast producing species and a conifer component (hemlock and white pine) 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, black bear, fisher, marten, ruffed grouse and sharp-tailed 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 19 & 29-31, T47N R10W, Luce County

Surface sediments consist of an end moraine of coarse-textured till. 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 8 miles northwest of Newberry. Access to the compartment is very good. County Road 407 runs along the east side of the compartment while County Road 455 and 422 provide east-west access to the compartment. Several woods roads (two track) transect the area providing additional access to the interior of the compartment.

Survey Needs:

For management activities to occur the following survey work is needed: verification of E1/16 on north line of section 19, NE1/16 and E1/16 of Section 19; verification n1/16 and the N1/16 on east section line of section 31.

Recreational Facilities and Opportunities:

Recreational facilities within the compartment include the Silver Creek ORV Trail and the Three Mile Snowmobile Trail. Other recreational opportunities include hunting, hiking, wildlife viewing and fishing on some private lakes in the area. The proximity of the compartment to the town of Newberry lends to a high amount of hunting activity. Numerous camps and permanent residences are located within the compartment boundary. Oswald's Bear Ranch is also located nearby. Interpretive opportunities exist for local school kids through the guidelines of the Luce County Lease Lands located within the compartment.

Fire Protection:

The compartment has good road access for fire suppression activities. Small stands of conifer intermixed with hardwoods and a moderate response time can keep the potential for large fires low in this compartment.

Additional Compartment Information:

Retention within prescribed treatments will not be located near ORV trails. Minimum of one (1) tree length away from the trail for all retention, individual tree and patch retention.

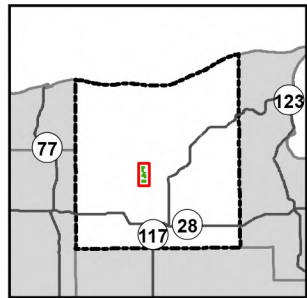
The following reports from the Inventory are attached:



















































- 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**

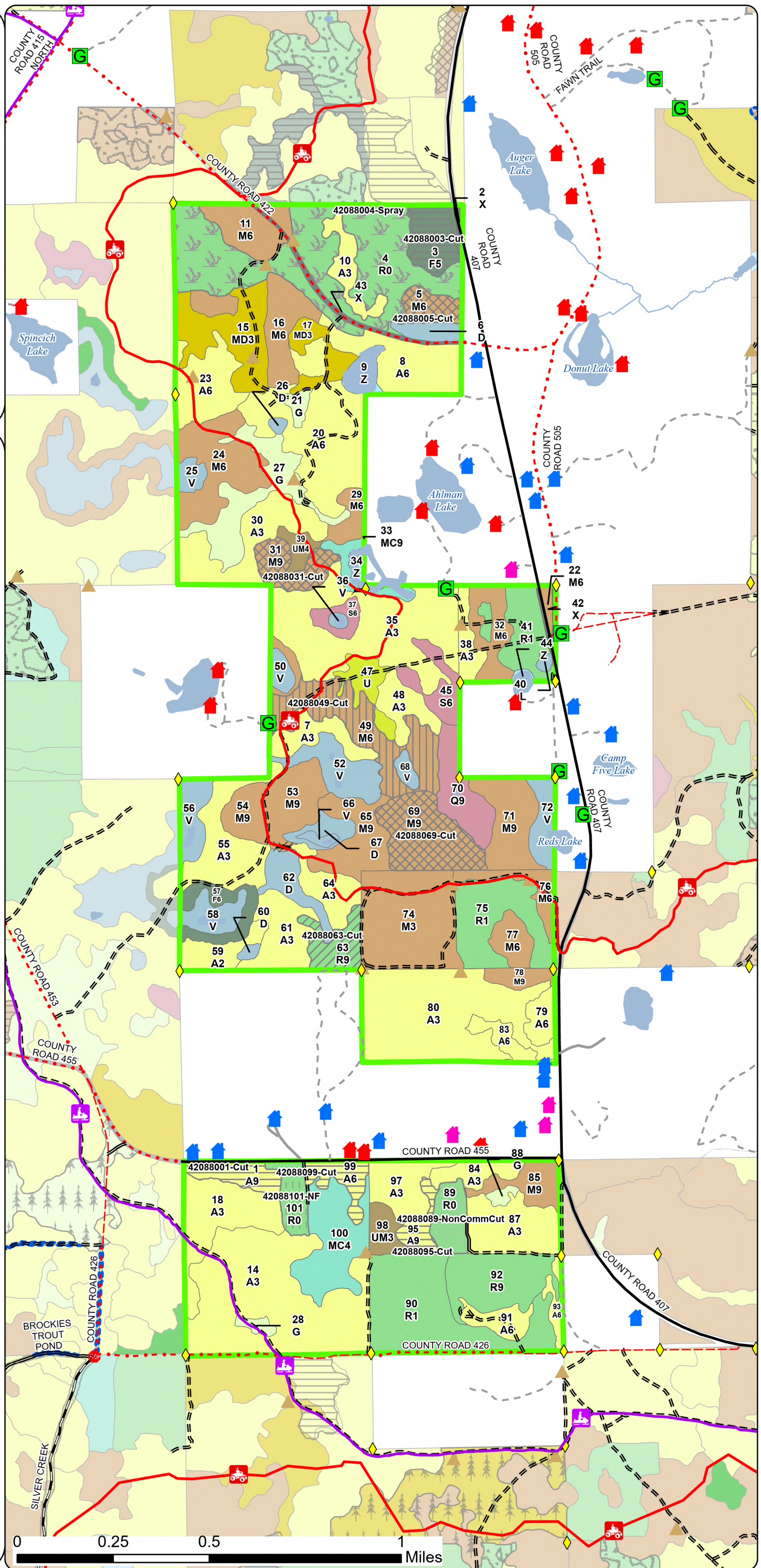
The following information is displayed, where pertinent, on the attached compartment maps:

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

Compartment: 42088
T47N R10W 19, 30, 31
County: Luce
Unit: Newberry
Mgmt. Area: Grand Marais Moraine
Complex
YOE: 2027
Acres: 1,296.15 GIS Calculated
Examiner: Amy Livermore
Date Exported: 08/19/2025
Map Phase: Web Post

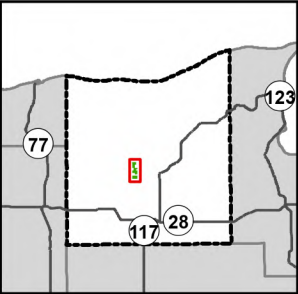


- | | |
|---|---------------------------------------|
|  | Survey Grade Corners |
|  | Cabin |
|  | House |
|  | Structure, Seasonal Dwelling |
|  | Berms |
|  | Gate |
|  | Bridges |
|  | Sign |
|  | Designated Snowmobile Trails |
|  | Designated ATV Trails |
|  | DNR - Primary Forest Road |
|  | DNR - Secondary Forest Road |
|  | DNR - Forest Access Route |
|  | Federal / State / County - Paved Road |
|  | County - Gravel Road |
|  | County - Dirt Road (Seasonal) |
|  | Private - Paved Road |
|  | Private - Dirt / Gravel Road |
|  | Intermittent Stream |
|  | Perennial River |
|  | Lakes and Rivers |
|  | Counties |
|  | Compartment Boundary |
|  | Treatments with Site Conditions |
|  | Clearcut |
|  | Selection |
|  | Shelterwood |
|  | Thinning |
|  | Pesticide |
|  | Non-Comm. Tree Cutting |
|  | Openings Mgmt. |
|  | Clearcut |
|  | Selection |
|  | Planting (tree species) |
|  | Pesticide |
|  | Openings Mgmt. |
|  | Monitoring - Regeneration |
|  | 411 - Northern Hardwood |
|  | 413 - Aspen |
|  | 419 - Mixed Upland Deciduous |
|  | 421 - Planted Pines |
|  | 423 - Other Upland Conifers |
|  | 429 - Mixed Upland Conifers |
|  | 430 - Upland Mixed Forest |
|  | 500 - Water |
|  | 612 - Lowland Coniferous Forest |
|  | 122 - Road/Parking Lot |
|  | 310 - Herbaceous Openland |
|  | 330 - Low Density Trees |
|  | 622 - Lowland Shrub |

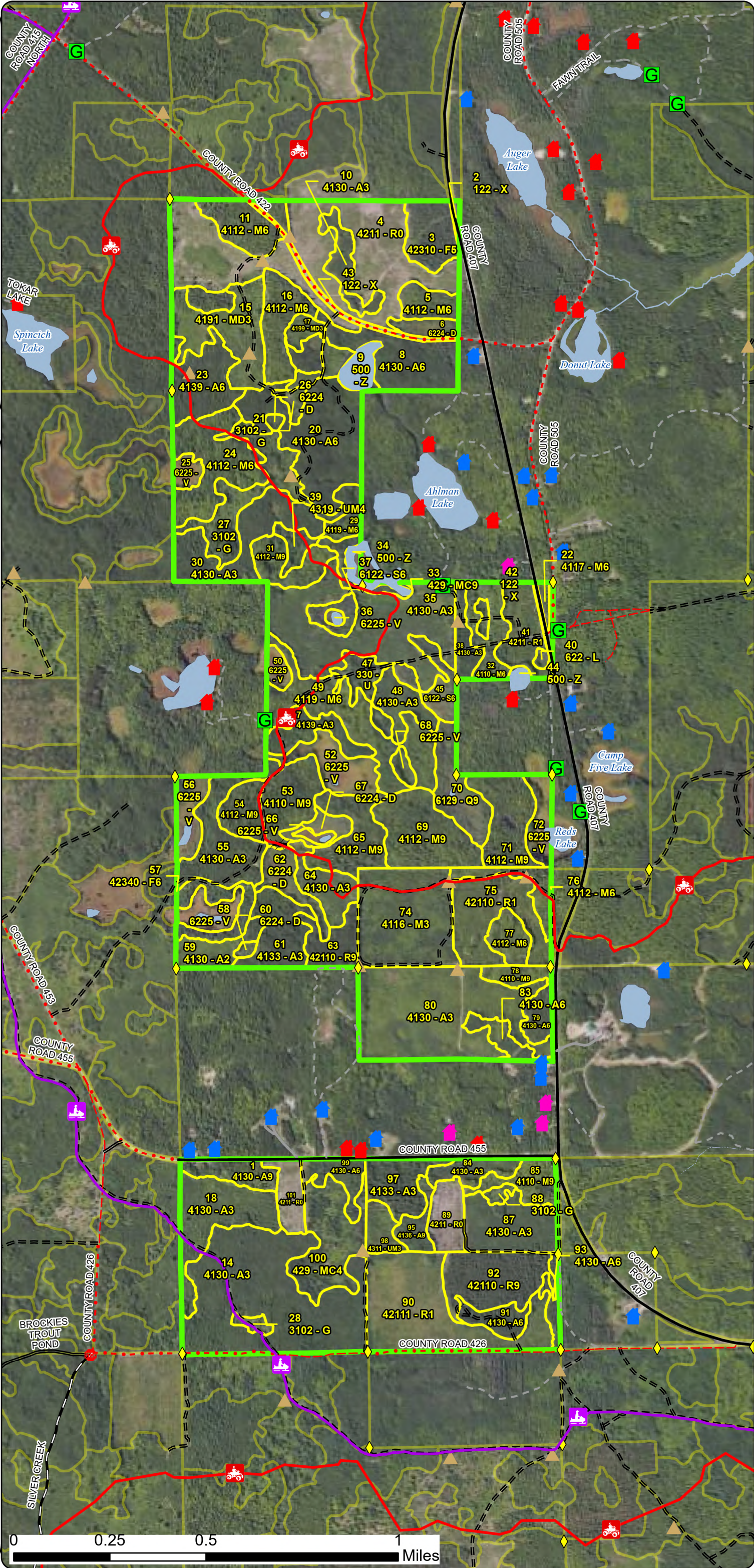


Stand Boundary
Map

Compartment: 42088
T47N R10W 19, 30, 31
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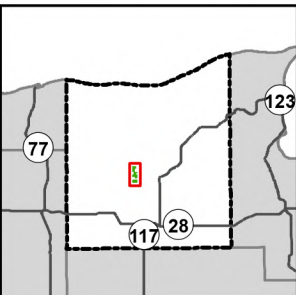


- Survey Grade Corners
- Cabin
- House
- Structure, Seasonal Dwelling
- Berms
- Gate
- Bridges
- Sign
- Designated Snowmobile Trails
- Designated ATV Trails
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Paved Road
- Private - Dirt / Gravel Road
- Intermittent Stream
- Perennial River
- Lakes and Rivers
- Counties
- Compartment Boundary
- Stand Outline
- 411 - Northern Hardwood
- 413 - Aspen
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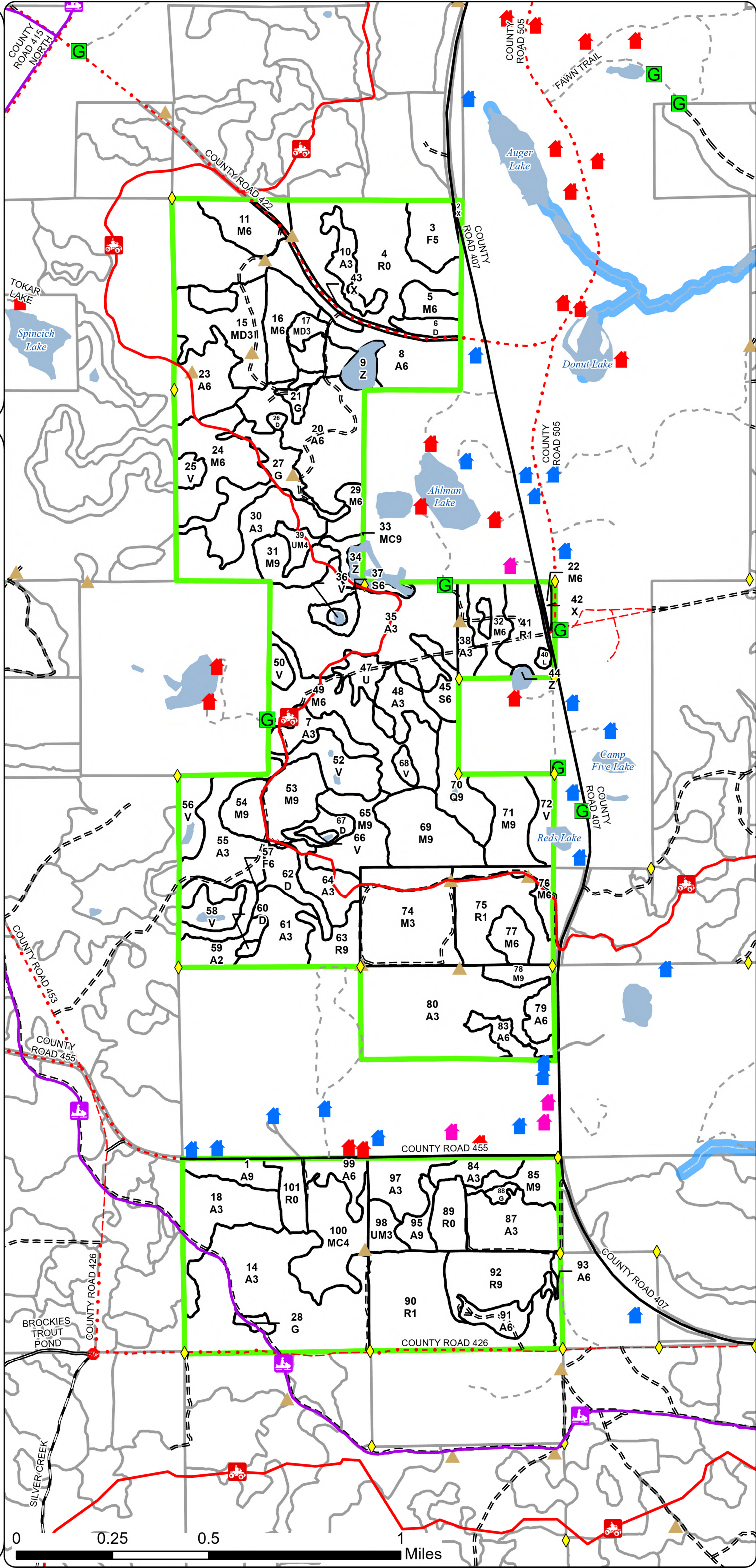


Special Conservation Areas
& Site Conditions Map

Compartment: 42088
T47N R10W 19, 30, 31
County: Luce
Unit: Newberry
Mgmt. Area: Grand Marais Moraine
Complex
YOE: 2027
Acres: 1,296.15 GIS Calculated
Examiner: Amy Livermore
Date Exported: 08/19/2025
Map Phase: Web Post



- Survey Grade Corners
- Cabin
- House
- Structure, Seasonal Dwelling
- Berms
- Gate
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- Designated Snowmobile Trails
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- DNR - Forest Access Route
- Federal / State / County - Paved Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Paved Road
- Private - Dirt / Gravel Road
- Intermittent Stream
- Perennial River
- Lakes and Rivers
- Counties
- 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	203	175	26	68	24	0	9	6	0	0	0	0	0	0	0	0	8	519
Bog	53	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	53
Herbaceous Openland	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30
Low-Density Trees	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Lowland Conifers	0	0	0	0	0	0	0	0	0	0	16	0	0	0	0	0	0	0	16
Lowland Shrub	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	0	0	14	0	0	0	0	0	0	0	14
Mixed Upland Deciduous	0	34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	34
Northern Hardwood	0	0	41	0	0	0	0	0	0	8	57	35	0	0	0	0	0	154	295
Red Pine	97	0	88	0	0	0	0	11	24	0	0	0	0	0	0	0	0	0	220
Treed Bog	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22
Upland Conifers	0	0	0	0	0	26	0	0	0	0	5	0	0	0	0	0	0	0	31
Upland Mixed Forest	0	0	7	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	10
Upland Spruce/Fir	0	0	0	0	0	0	0	14	0	10	0	0	0	0	0	0	0	0	24
Urban	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Water	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
Total	230	237	311	26	68	50	4	34	30	18	92	35	0	0	0	0	0	162	1295

Report 2 – Treatment Summary

Newberry Mgt. Unit
Year of Entry: 2027

Acres of Harvest

Compartment 88
Total Compartment Acres: 1,296

Commercial Harvest - 345
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	Overshoot Removal	Salvage	Other	Total Acres
Aspen	24	0	0	0	0	0	0	0	0	24
Northern Hardwood	0	45	0	0	31	0	0	0	0	76
Red Pine	0	0	0	0	0	11	0	0	0	11
Upland Spruce/Fir	12	0	0	0	0	0	0	0	0	12
Total	36	45	0	0	31	11	0	0	0	122

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	122	0	0	0	0	78	10	0	9	219
Next Step	0	24	100	0	0	22	270	0	0	504
Total	122	24	100	0	0	100	280	0	9	723

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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:

1	42088001-Cut	9.2	4130 - Aspen	9	68	81-110	Harvest	Clearcut	413 - Aspen	Planting Record	No
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Prescription Clearcut. No retention due to small size. Leave mature and sub-merchantable conifer in the red pine. Leave one drumming log for the grouse on the south side.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable aspen, red maple, white pine, paper birch

Regen:

Other

Comment:

Site Condition:

Proposed Start Date: 10/01/2026

4	42088004-Spray	78.2	4211 - Planted Red Pine	0	4	Immature	Pesticide	Pesticide	4211 - Planted Red Pine	Planting Record	No
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Prescription

Specs: Release spray to eliminate competition 10/01/2025

Next Step Monitoring, Herbicide Use; Planting, Replant; NonCommCut, Brush Saw Release

Treatments:

Acceptable Red pine with areas of natural aspen, maple and cherry regeneration.

Regen:

Other

Percent to Treat = 100%

Comment:

Site Condition:

Proposed Start Date: 10/01/2025

5	42088005-Cut	7.6	4112 - Maple, Beech, Cherry Association	6	80	111-140	Harvest	Selection	411 - Northern Hardwood	Planting Record	No
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Prescription Thin stand by selection. Residual BA of 70-80 average. Remove multi stem red maple and favor better quality sugar maple and red maple poles. Retain cherry and white pine.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable northern hardwoods

Regen:

Other

Previously set up, but will need to be remarked and lines freshened up.

Comment:

Site Condition:

Proposed Start Date: 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
31 42088031-Cut	11.5	4112 - Maple, Beech, Cherry Association	9	90	111-140	Harvest	Selection	411 - Northern Hardwood	Current	No
<u>Prescription Specs:</u> Follow gap guidance memo. Create small gaps between 50-85 feet in diameter. In total 1-2 acres should be harvested as gaps. Thin the remainder of the stand to 70-80 BA. <u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory); Monitoring, Natural Regen (Re-Inventory) <u>Acceptable Regen:</u> northern hardwoods <u>Other Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026										
49 42088049-Cut	31.2	4119 - Mixed Northern Hardwoods	6	92	111-140	Harvest	Shelterwood	411 - Northern Hardwood	Planting Record	No
<u>Prescription Specs:</u> Shelterwood with retention. Leave a residual of 40-50 BA. Focus on leaving trees without top dieback when possible. Retain birch, hemlock, and white pine. In the boundary line, leave aspen. <u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory) <u>Acceptable Regen:</u> northern hardwoods, aspen <u>Other Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026										
63 42088063-Cut	10.6	42110 - Planted Red Pine	9	65	111-140	Harvest	Thinning	4211 - Planted Red Pine	Planting Record	No
<u>Prescription Specs:</u> Thin to 70-80 BA. Focus on taking poor quality trees and trees growing out of size class. <u>Next Step Treatments:</u> <u>Acceptable Regen:</u> <u>Other Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026										
69 42088069-Cut	25.9	4112 - Maple, Beech, Cherry Association	9	95	111-140	Harvest	Selection	411 - Northern Hardwood	Current	No
<u>Prescription Specs:</u> Follow gap guidance memo. Create small gaps between 50-85 feet in diameter. 2-4 acres should be harvested as gaps. Thin the remainder of the stand to 70-80 BA. Focus first on removing low quality red maple and beech that is still alive. Keep gaps out of h <u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory); Monitoring, Natural Regen (Re-Inventory) <u>Acceptable Regen:</u> northern hardwoods <u>Other 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
95 42088095-Cut	6.1	4136 - Aspen, Mixed Conifer	9	75	111-140	Harvest	Clearcut	4136 - Aspen, Mixed Conifer	Planting Record	No
<u>Prescription</u> Clearcut w/out retention due to small size. In the boundary line, leave mature aspen and conifer. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> aspen, red maple balsam fir, paper birch, spruce <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026										
99 42088099-Cut	8.4	4130 - Aspen	6	57	51-80	Harvest	Clearcut	413 - Aspen	Planting Record	No
<u>Prescription</u> Clearcut without retention due to small size. In the boundary line, leave mature aspen, white pine and cherry. Create 1 drumming log for grouse on the south side. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> aspen, spruce, white pine, red maple <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026										
101 42088101-NF	8.6	4211 - Planted Red Pine	0	4	Immature	NonForestMgt	Openings Mgmt.	42110 - Planted Red Pine	Planting Record	No
<u>Prescription</u> Cut all non-pine species 5' and taller <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Intermediate) <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2025										

Approved Treatments:

3 42088003-Cut	11.9	42310 - Planted Spruce	5	64	1-50	Harvest	Clearcut	4211 - Planted Red Pine	Planting Record	No
<u>Prescription</u> Clearcut. Leave 3-5% retention along the road. <u>Specs:</u> <u>Next Step</u> SitePrep, Roller Chopping; SitePrep, Trenching; Pesticide, Aerial - Site Prep; Planting, Initial Plant; Monitoring, Artificial Regen; <u>Treatments:</u> Monitoring, Herbicide Use; Monitoring, Artificial Regen (3yr) <u>Acceptable</u> red pine <u>Regen:</u> <u>Other</u> Early start date to coincide with cult activities for treatment 42085080-cut to the north. <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2024										

Standard

Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
89 42088089-Monitor	10.0	4211 - Planted Red Pine	0	3	Immature	Monitoring	Monitoring - Regeneration	4211 - Planted Red Pine	Planting Record	No
<u>Prescription</u> Monitor regen.										
<u>Specs:</u>										
<u>Next Step</u> Pesticide, (Inactive)Aerial; Planting, Replant; Monitoring, Herbicide Use; NonCommCut, Brush Saw Release										
<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										

Total Treatment
Acreage Proposed: 219.2

Report 4 – Site Conditions

Newberry Mgt. Unit
Amy Livermore: Examiner

Compartment: 88
Year of Entry: 2027



Availability for Management

Total Acres	Acres Available	Acres Available With Condition	Acres Not Available	Dominant Site Conditions			
Acres	Available	With Condition	Not Available	3E	3J	5E	
485	464	0	22	Aspen	18	1	2
53	53	0	0	Bog			
30	30	0	0	Herbaceous Openland			
8	9	0	0	Low-Density Trees			
16	16	0	0	Lowland Conifers			
1	0	0	1	Lowland Shrub	1		
14	14	0	0	Lowland Spruce/Fir			
26	25	0	1	Mixed Upland Deciduous		1	
294	224	0	70	Northern Hardwood	70		
220	108	0	112	Red Pine	112		
22	22	0	0	Treed Bog			
31	26	0	5	Upland Conifers		5	
11	11	0	0	Upland Mixed Forest			
11	0	0	11	Upland Spruce/Fir		10	1
8	8	0	0	Urban			
10	9	0	1	Water	1		
1,241	1,019		223	Total Forested Acres	203	17	3
	82%		18%	Relative Percent			

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

Site No.	Dominant Site Cond	Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable		3J: Water quality/BMPs (stream, river, or lake)	10	5E: Long-Term Retention	5F: Evaluated for Forest Health Considerations	Unspecified	Unspecified
Comments: Evaluated for SBW								
2	Unavailable		5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:								

Report 4 – Site Conditions

Newberry Mgt. Unit
Amy Livermore: Examiner

Compartment: 88
Year of Entry: 2027



11	Unavailable	3E: Easement/lease, non-military (e.g. Consumers Power red pine, etc.)	203	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Luce County Lease Land							
12	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
14	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	3	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
Comments:							
15	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
16	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
17	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
18	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions



19	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
20	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
21	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
22	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
23	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
24	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
26	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	5	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	Sawtimber Well	9.2	68	81-110	N/A		Mature aspen stand. Area with mortality and blowdown. Some white pine is dying out. Component of maple, white birch, balsam, spruce and cherry. Sub canopy of maple is thick. Open areas within the stand. Some clones showing some rot. Travel influence and residence across county road. Snowmobile trail transects stand.2019: originally part of stand 18, but left for visual buffer.																																																															
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Red Maple</td><td>11</td><td></td><td>9</td><td></td><td>Maple (spp.)</td><td>Full</td><td>Variable</td><td>Variable</td></tr><tr><td>Paper Birch</td><td>2</td><td>Seedling</td><td>8</td><td></td><td>Balsam Fir</td><td>Medium</td><td>Variable</td><td>Variable</td></tr><tr><td>White Pine</td><td>5</td><td></td><td>10</td><td></td><td>White Spruce</td><td>Low</td><td>Variable</td><td>Variable</td></tr><tr><td>Quaking Aspen</td><td>75</td><td></td><td>10</td><td>68</td><td></td><td></td><td></td><td></td></tr><tr><td>Black Cherry</td><td>5</td><td>Seedling</td><td>8</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>Balsam Fir</td><td>2</td><td>Seedling</td><td>8</td><td></td><td></td><td></td><td></td><td></td></tr></table>									Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	Red Maple	11		9		Maple (spp.)	Full	Variable	Variable	Paper Birch	2	Seedling	8		Balsam Fir	Medium	Variable	Variable	White Pine	5		10		White Spruce	Low	Variable	Variable	Quaking Aspen	75		10	68					Black Cherry	5	Seedling	8						Balsam Fir	2	Seedling	8					
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Balsam Fir	2	Seedling	8																																																																				
2	122 - Road/Parking Lot	None	1.2				No	County Road 407 and right of way																																																															
3	42310 - Planted Spruce	Poletimber Medium	13.6	64	1-50	N/A		Stand planted in 1961, Hardwoods, aspen, birch and balsam all removed in 2000-2001 (sale #053-97). Released the spruce. Open areas are more of an A3/M3. Pockets of thicker spruce. Stand has been hit by budworm. 2/3-3/4 of trees affected. Stand has good regeneration of aspen, maple, birch and some cherry from the previous harvest. Kalkaska sand.																																																															
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>White Spruce</td><td>90</td><td>Seedling</td><td>8</td><td>64</td><td>Red Maple</td><td>Medium</td><td>10 - 20 feet</td><td>10 - 20 feet</td></tr><tr><td>White Pine</td><td>10</td><td></td><td>9</td><td></td><td>Paper Birch</td><td>Low</td><td>10 - 20 feet</td><td>10 - 20 feet</td></tr><tr><td></td><td></td><td></td><td></td><td></td><td>Quaking Aspen</td><td>Medium</td><td>10 - 20 feet</td><td>10 - 20 feet</td></tr></table>									Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	White Spruce	90	Seedling	8	64	Red Maple	Medium	10 - 20 feet	10 - 20 feet	White Pine	10		9		Paper Birch	Low	10 - 20 feet	10 - 20 feet						Quaking Aspen	Medium	10 - 20 feet	10 - 20 feet																											
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4	4211 - Planted Red Pine	Unspecifed	78.6	4	Immature			Artificial regen check autumn 2024, FRS contract. Artificial red pine.																																																															
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Target- 756 TPA avg height 2.3 ftNon-target - 1092 TPARelease recommended. Site planted with 815 TPA red pine on 5/9/2022. First year regen survey: RP 779 TPA. Stand is being considered for a release spray per TMS recommendations; TBT.9/10/21 - Site site prep sprayed. Report attached.2020- stand, roller chopped and trench in fall 2020.12/17/2020 - Plow lines will need to be planted even though they were not trenched. Accounts for a considerable acreage difference against the seedling order if not. TMS will work with the planting crew to see what can be done. - JATFormerly a spruce plantation. Cut in 2017 as part of County Road 422 SBW (# 002-16).RX burn was never conducted. Cultivation treatments changed to trench and plant***Cultivation treatment sequence changed. Stand will be trenched in 2020, site prep sprayed in 2021, and planted in 2022. This will follow newly implemented statewide sequence for red pine cultivation treatments.																																																																							
5	4112 - Maple, Beech, Cherry Association	Poletimber Well	7.6	80	111-140	N/A		Timber Chicken Attack sale went uncut and returned. Primarily lesser quality red maple with some better quality single stem hard maple. Most of the stand is multiple stem red maple. Component of black cherry. Pockets of advanced white pine in the understory (west end). Kalkaska sand.																																																															
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6	6224 - Treed Bog	None	4.9				No	small bog bordering Co Rd 422. Spruce along the edges. Dawson, Greenwood and Loxley peats.																																																															

Stand	Level 4 Cover Type	Size Density			Acres	Stand Age	BA Range	Managed Site	General Comments		
7	4139 - Aspen, Mixed Deciduous	Sapling Well			10.7	15	Immature	N/A	Stand harvested via final harvest as sale #040-07-01, Red's Lake Mix. all yb left. Completed 05/13/10. Good aspen, maple, cherry regeneration 10-15 ft tall. Borders a bog with beaver activity to the south. ORV trail runs through the stand. Liminga-Alcona soil complex.		
Canopy Species		% Cover	Size Class	DBH	Age						
Black Cherry		25	Log	2							
White Pine		2	Seedling	8							
Balsam Fir		5	Log	2							
White Spruce		2	Seedling	7							
Red Maple		18	Log	2							
Quaking Aspen		48	Log	3	15						
8	4130 - Aspen	Poletimber Well			27.5	34	51-80	N/A	Stand cut as sale #029-89-01. Completed 10/18/1991. Nice, thick aspen regeneration. Averaging 40-60 BA in pole size areas. Liminga-Alcona complex.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density		Avg. Height	Size
Black Cherry		8	Sapling	5		Cherry (spp.)		Medium		10 - 20 feet	10 - 20 feet
Quaking Aspen		70	Sapling	7	34	Maple (spp.)		High		10 - 20 feet	10 - 20 feet
White Spruce		2	Seedling	8		Balsam Fir		Low		Variable	Variable
Balsam Fir		5	Sapling	5							
Red Maple		15	Sapling	6							
9	500 - Water	None			5.7			No	Small pond with a lot of beaver activity.		
10	4130 - Aspen	Sapling Well			9.2	17	Immature	N/A	Stand harvested as "422 Contract Mix", sale #038-07-01. Completed 10/23/08. Nice aspen regeneration with component of maple and cherry. 10-15 ft tall regen. Thick. Minor component of balsam and spruce as well. A few scattered large diameter white pine retained after harvest. Kalkaska sand.		
Canopy Species		% Cover	Size Class	DBH	Age						
Balsam Fir		2	Log	1							
Black Cherry		9	Log	2							
Red Maple		20	Log	2							
Quaking Aspen		65	Log	2	17						
White Pine		2		14							
White Spruce		2	Log	1							
11	4112 - Maple, Beech, Cherry Association	Poletimber Well			15.3	101	81-110	N/A	Stand harvested via selection as "422 Contract Mix", sale #038-07-01. Complete 10/23/08. Mostly red maple with some hard maple and black cherry. A few small sawlog diameter trees. Some good quality staight boles. Less quality along Co Rd 422 (both sides). Stand was non-commercially thinned in the past. Kalkaska sand.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density		Avg. Height	Size
Balsam Fir		10	Seedling	8		Balsam Fir		Medium		Variable	Variable
Red Maple		70		9	101	Maple (spp.)		Medium		Variable	Variable
Black Cherry		5	Seedling	9							
Sugar Maple		15		9							
14	4130 - Aspen	Sapling Well			75.8	17	Immature	N/A	Stand harvested as "426 Aspen", sale #031-08-01. All white pine left as residual. Complete 12/12/08. Summer 2012: Aspen Fully Stocked. Nice thick regeneration. Snowmobile trail runs through the stand. Some residual log sized white pine scattered.		
Canopy Species		% Cover	Size Class	DBH	Age						
Quaking Aspen		75	Log	3	17						
White Pine		5		8							
Red Maple		10	Log	2							
Paper Birch		10	Seedling	7							

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
15	4191 - Mixed Upland Deciduous with Conifer	Sapling Well	25.3	9	Immature	N/A	Previously a spruce plantation. Cut in 2017 as part of County Road 422 SBW (# 002-16). Based on regeneration in portions of the stand from previous harvest as well as in stand 13 from the previous harvest, maple, aspen and white pine should regenerate well. Regen Check - 11/5/2019: Moderate of red maple and aspen saplings throughout with cherry, spruce, balsam and white pine in association. Optional next steps (backup plan) was to trench and plant areas with inadequate stocking; Areas not found in survey. Southernmost portion of site lowest stocking levels.
		Canopy Species	% Cover	Size Class	DBH	Age	
		White Spruce	10	Log	2		
		Quaking Aspen	20	Log	2	9	
		Balsam Fir	5	Pole	3		
		White Pine	8	Log	2		
		Pin Cherry	12	Log	2		
16	4112 - Maple, Beech, Cherry Association	Poletimber Well	19.3	101	81-110	N/A	Stand harvested via selection as "422 Contract Mix", sale #038-07-01. Some good quality in the stand. Straight boles in both red maple and hard maple. Tall trees. Rolling hills. Pockets with a thicker balsam understory. Decent quality throughout. Some dieback in red maple tops. Liminga-Alcona soil complex.
		Canopy Species	% Cover	Size Class	DBH	Age	
		Sugar Maple	20		9		
		Red Maple	60		9	101	
		Black Cherry	5	Seedling	8		
		White Pine	5		11		
		Balsam Fir	10	Seedling	8		
Sub-Canopy Species	Density	Avg. Height	Size				
Maple (spp.)	High	Variable	Variable				
White Pine	Low	Variable	Variable				
Cherry (spp.)	Low	5 - 10 feet	5 - 10 feet				
Balsam Fir	Medium	Variable	Variable				
17	4199 - Other Mixed Upland Deciduous	Sapling Well	8.8	9	Immature	N/A	Previously a spruce plantation. Cut in 2017 as part of County Road 422 SBW (# 002-16). Regen Check - 11/5/2019: Moderate stocking of red maple and aspen saplings throughout with cherry, spruce, balsam and white pine in association. Optional next steps (back up plan) was to trench and plant areas with inadequate stocking; Areas not found in survey.
		Canopy Species	% Cover	Size Class	DBH	Age	
		Red Maple	50	Log	2	9	
		White Spruce	10	Log	2		
		Pin Cherry	10	Log	2	9	
		Quaking Aspen	25	Log	2	9	
		Balsam Fir	5	Log	2		
Sub-Canopy Species	Density	Avg. Height	Size				
Red Maple	Medium	< 5 feet	< 5 feet				
18	4130 - Aspen	Sapling Well	25.5	7	Immature	N/A	Clearcut in 2018 as part of Missing Fingers Aspen, #026-17.
		Canopy Species	% Cover	Size Class	DBH	Age	
		Black Cherry	10	Log	1		
		Quaking Aspen	75	Log	1	7	
		White Pine	1		20		
		Paper Birch	2	Log	1		
		Red Maple	12	Log	1		
20	4130 - Aspen	Poletimber Well	40.7	34	1-50	N/A	Stand cut as sale #029-89-01. Completed 10/18/1991. Nice, thick aspen regeneration. Averaging 40-60 BA in pole size areas. Liminga-Alcona complex.
		Canopy Species	% Cover	Size Class	DBH	Age	
		Quaking Aspen	65	Sapling	6	34	
		Balsam Fir	5	Pole	4		
		Black Cherry	8	Log	3		
		Paper Birch	5	Sapling	6		
		Black Spruce	2	Seedling	8		
Red Maple	15	Pole	4				
Sub-Canopy Species	Density	Avg. Height	Size				
Balsam Fir	Low	Variable	Variable				
Cherry (spp.)	Medium	Variable	Variable				
Maple (spp.)	High	10 - 20 feet	10 - 20 feet				

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																			
21	3102 - Grass	None	2.8			No	Some aspen, white pine and cherry encorachment from adjacent stands. Grass and reindeer moss. Liminga-Alcona soil complex.																																																			
22	4117 - Mixed N. Hardwood - Pine	Poletimber Well	1.6	90	81-110	N/A	LUCE COUNTY LEASE LAND. Small stand in between Co Rd 407 and Co Rd 505. Some red pine from the 1949 planting along Co Rd 407. Hard maple and beech.																																																			
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23	4139 - Aspen, Mixed Deciduous	Poletimber Well	19.1	24	Immature	N/A	Stand was cut as sale #053-97. Converted to aspen. Stand was originally poor quality hardwoods with scattered large overmature aspen throughout. Some nice M3 regeneration mixed in. Large ravine through the stand. Liminga-Alcona soil complex.																																																			
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24	4112 - Maple, Beech, Cherry Association	Poletimber Well	26.7	92	81-110	N/A	Semi-open stand in spots. Multiple stems, shorter heights. Some quality in single stem sugar maple. Scattered pockets of large diameter aspen. More red maple with aspen along the bog. Component of beech and cherry, thought most beech is dying out. ORV trail runs through the stand. Liminga-Alcona soil complex.																																																			
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Balsam Fir	Medium	Variable	Variable																																																							
25	6225 - Bog	None	3.8			No	Bog with substantial beaver activity.																																																			
26	6224 - Treed Bog	None	1.0			No																																																				
27	3102 - Grass	None	23.7			No	Large opening with lots of "fingers". Scattered bushy white pine and spruce. Some aspen and cherry encorachment from adjacent stands. Grass and reindeer moss. Liminga-Alcona soil complex.																																																			
		<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Cherry (spp.)</td><td>Low</td><td>Variable</td><td>Variable</td></tr><tr><td>Quaking Aspen</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	Cherry (spp.)	Low	Variable	Variable	Quaking Aspen	Low	Variable	Variable	White Pine	Low	Variable	Variable																																			
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28	3102 - Grass	None	2.1			No	Snowmobile trail runs through the stand. Liminga-Alcona soil complex. Skinny opening, starting to fill in with cherry, rm, pb, qa																																																			

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																									
29	4119 - Mixed Northern Hardwoods	Poletimber Well	6.1	90	81-110	N/A	Red maple with hard maple, balsam and some aspen along the edges. Lower quality, multiple stems. Aspen and balsam along the private property. F2/M2 understory (beech, balsam, maple). Liminga-Alcona soil complex.																																									
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30	4130 - Aspen	Sapling Well	25.3	17	Immature	N/A	Stand harvested as "422 Contract Mix", sale #038-07-01. Completed 10/23/08. Stand continues into Compartment 90. Aspen with maple, cherry and some white birch 10-20 ft tall on average. Residual maple and cherry poles retained after harvest. Also some large diameter white pine retained. Small bog included in the stand. Liminga-Alcona soil complex.																																									
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31	4112 - Maple, Beech, Cherry Association	Sawtimber Well	11.5	90	111-140	N/A	Maple stand with some good quality, straight clear boles in sugar maple. Scattered large beech and an occasional aspen. Most of the beech is dead or dying out. Stand quality decreases along the edges. ORV trail runs through the stand. Small opening included in western portion of the stand. Liminga-Alcona soil complex.																																									
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32	4110 - Sugar Maple Association	Poletimber Well	11.9	95	51-80	N/A	LUCE COUNTY LEASE LAND. Stand was thinned by selection harvest in 2009-2010.																																									
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33	429 - Mixed Upland Conifers	Sawtimber Well	5.1	90	81-110	N/A	Large, limby white pine, balsam with spruce and poor quality red maple bordering a small pond and private land. Mature balsam is healthy and of good quality. Some beaver activity on the hardwoods within the stand. Eastern portion of the stand is more white pine, western portion is more balsam and spruce. ORV trail runs through the majority of the stand. Liminga-Alcona soil complex.																																									
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34	500 - Water	None	3.2			No	Small pond with a bog in the center. Appears to be fairly deep.																																									

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
35	4130 - Aspen	Sapling Well	57.3	7	Immature	N/A	Clearcut in 2018 as part of Alhman Lake Aspen, #019-17. Retention pockets located on edges mainly. Old notes state that stand was clearcut and TSI'd in 1975. Liminga-Alcona soil complex and Paquin-Finch sands.			
	Canopy Species	% Cover	Size Class	DBH	Age					
	Red Maple	10	Log	2						
	Quaking Aspen	90	Log	2	7					
36	6225 - Bog	None	1.1			No				
37	6122 - Black Spruce	Poletimber Well	4.7	93	81-110	N/A	Small diameter, short black spruce. Very wet stand. Small bog in the middle of the stand. Dawson, Greenwood and Loxley peats.			
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
	Black Spruce	85	Seedling	8	93	Balsam Fir		Low	Variable	Variable
	White Pine	10		10		Black Spruce		Low	5 - 10 feet	5 - 10 feet
	Tamarack	5	Seedling	8						
38	4130 - Aspen	Sapling Well	6.7	23	Immature	N/A	LUCE COUNTY LEASE LAND. Stand was clearcut in 2001-2002. Regenerating to aspen on the north and south portions and more of an M2/A2 in the middle. Stand was originally part of stand 739 (originally Stand 21).			
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
	Red Maple	30	Log	2		Maple (spp.)		High	5 - 10 feet	5 - 10 feet
	Balsam Fir	2	Log	2		Balsam Fir		Low	Variable	Variable
	Black Cherry	8	Log	2						
	Quaking Aspen	60	Log	2	23					
39	4319 - Mixed Upland Forest	Poletimber Poor	4.4	50	1-50	N/A	Large opening with lots of "fingers". Scattered bushy white pine and spruce. Some aspen and cherry encroachment from adjacent stands. Grass and reindeer moss.			
40	622 - Lowland Shrub	None	1.1			No	LUCE COUNTY LEASE LAND			
41	4211 - Planted Red Pine	Sapling Poor	15.9	14	Immature	N/A	LUCE COUNTY LEASE LAND. Stand was clearcut in 2009. Trenched 09/16/2011. Planted to red pine 10/24/2011. Release (spray) done 09/03/2013, stand was shocked by herbicide and most of red pine died. Replanted 11/17/2014. Release (spray) scheduled for summer 2016. Small western portion of the stand was not sprayed to eliminate the hardwood competition. More of a component of maple and cherry as well as slightly taller red pine (older). Old notes: Stand was thinned between 1999-2001. January 2004 Administrative Update - Luce County Lease Land lists this stand scheduled for harvest again in 2009. The plan of the county is to evaluate for final harvest, followed by site preparation and planting the site back to red pine. Treatment should be within the guidelines established in the management plan of the Luce County Lease.			
42	122 - Road/Parking Lot	None	2.5			No	County Road 407 and County Road 505 and right of ways. Within Luce County Lease Land boundary.			

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
43	122 - Road/Parking Lot	None	4.7	0		No	County Road 422 and cleared right of way			
44	500 - Water	None	1.0			No	LUCE COUNTY LEASE LAND. Small pond.			
45	6122 - Black Spruce	Poletimber Well	9.7	93	81-110	N/A	Small diameter, wet black spruce stand. Spruce average diameter of 7 inch. Tamarack and white pine. Component of small diameter white birch and red maple. Carbondale, Lupton and Tawas mucks.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Black Spruce		70	Seedling	8	93	Maple (spp.)		Low	5 - 10 feet	5 - 10 feet
Tamarack		10	Seedling	9		Black Spruce		Medium	Variable	Variable
White Pine		5		10						
Quaking Aspen		5	Sapling	6						
Red Maple		5	Sapling	6						
Paper Birch		5	Sapling	5						
47	330 - Low-Density Trees	None	8.5			No		Opening filling in with some white birch, aspen and cherry encroachment along the edges. Some small balsam an spruce. Liminga-Alcona soil complex.		
48	4130 - Aspen	Sapling Well	9.9	6	Immature	N/A	Clearcut (no retention) in 2018 as part of Ahlman Lake Aspen, #019-17. Liminga-Alcona soil complex.			
Canopy Species		% Cover	Size Class	DBH	Age					
Red Maple		15	Log	2						
Quaking Aspen		75	Log	2	6					
Black Spruce		5	Log	2						
Balsam Fir		5	Log	2						
49	4119 - Mixed Northern Hardwoods	Poletimber Well	33.8	92	111-140	N/A	Stand is a mix of red maple, hard maple, beech, yellow birch, and balsam. Multiple stem maple, seams. Pockets of aspen and also some individual aspen, all large diameter. Some good quality near the private. Lower BA (M5) around the openings that are filling in. Red maple is starting to show top dieback and also some mortality. Clumpy appearance to the stand. Liminga-Alcona soil complex. ORV trail runs through stand			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Black Cherry		5	Seedling	8		Maple (spp.)		Medium	5 - 10 feet	5 - 10 feet
Balsam Fir		5	Seedling	8		Balsam Fir		High	Variable	Variable
White Pine		2		12		Beech		High	Variable	Variable
Red Maple		55		9	92					
Sugar Maple		18		9						
Quaking Aspen		15		12						
50	6225 - Bog	None	3.6			No				
52	6225 - Bog	None	14.4			No	Open bog. Some tree cover. Clumps of spruce. Dawson, Greenwood and Loxley mix			

Stand	Level 4 Cover Type	Size Density			Acres	Stand Age	BA Range	Managed Site	General Comments																																										
53	4110 - Sugar Maple Association	Sawtimber Well			16.4	95	81-110	N/A	Stand harvested via selection as sale #040-07-01, Red's Lake Mix. Completed 05/13/10. Mix of hard maple and red maple. Good regeneration from the harvest. BA 80-90. Scattered yellow birch. Liminga-Alcona soil complex.																																										
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54	4112 - Maple, Beech, Cherry Association	Sawtimber Well			9.3	95	81-110	N/A	Select cut in 2018 as part of Ahlman Lake Aspen, #019-17. All conifer was retained. Concentrated on marking maple with dieback, beech and larger maple. 2016: Old notes state the stand was "heavily thinned in 1969". Lots of large diameter maple throughout. Primarily an M9 stand with areas of M6. The stand has a "patchy" appearance in areas. Good quality in sawlogs. Beech is dying out and there is some top dieback in the larger maple. ORV trail is the eastern boundary of the stand. Liminga-Alcona soil complex.																																										
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55	4130 - Aspen	Sapling Well			22.9	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.																																										
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56	6225 - Bog	None			9.1			No																																											
57	42340 - Upland Spruce/Fir	Poletimber Well			10.2	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 removed almost all aspen from the stand. Younger aspen trying to regenerate in those open areas. Kalkaska sand with some Liminga-Alcona soil complex.																																										
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Balsam Fir	Medium	Variable	Variable																																																
58	6225 - Bog	None			7.9			No																																											
59	4130 - Aspen	Sapling Medium			9.3	7	Immature	N/A	Clearcut in 2018 as part of Missing Fingers Aspen, #026-17. Retention pockets left within stand (located on the edges).																																										
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Red Maple</td><td>5</td><td>Log</td><td>1</td><td></td></tr><tr><td>White Pine</td><td>5</td><td>Log</td><td>1</td><td></td></tr><tr><td>Quaking Aspen</td><td>10</td><td></td><td>10</td><td></td></tr><tr><td>Quaking Aspen</td><td>80</td><td>Log</td><td>1</td><td>7</td></tr></table>					Canopy Species	% Cover	Size Class	DBH		Age	Red Maple	5	Log	1		White Pine	5	Log	1		Quaking Aspen	10		10		Quaking Aspen	80	Log	1	7																					
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60	6224 - Treed Bog	None			1.2			No	small treed bog																																										

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																				
61	4133 - Aspen, Mixed Pine	Sapling Well	16.7	16	Immature	N/A	Stand harvested as "Porky Pine", sale #005-07-01. Complete 6/3/09. White pine and red pine left as residual. Aspen, maple and cherry regeneration is thick, 10-20 ft tall average. Less regeneration in areas where red pine and white pine was left as residual.																																																				
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Red Pine	18		10																																																								
62	6224 - Treed Bog	None	9.4			No	treed bog and drainage to the southeast																																																				
63	42110 - Planted Red Pine	Sawtimber Well	10.6	65	111-140	N/A	Stand harvested as "Porky Pine", sale #005-07-01. Complete 6/3/09. Planted 1960. Rows run roughly north and south and are approx. 12ft apart. Current BA averages 110-140 sq ft. Quite a bit of maple and aspen encroachment in the subcanopy from adjacent harvests. Hold for 10 years with amount of adjacent harvests prescribed. Liminga-Alcona soil complex.																																																				
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Red Pine</td><td>95</td><td></td><td>13</td><td>65</td></tr><tr><td>White Pine</td><td>5</td><td></td><td>12</td><td></td></tr></table>						Canopy Species		% Cover	Size Class	DBH	Age	Red Pine	95		13	65	White Pine	5		12		<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Quaking Aspen</td><td>Medium</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr><tr><td>Maple (spp.)</td><td>Medium</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr></table>		Sub-Canopy Species	Density	Avg. Height	Size	Quaking Aspen	Medium	5 - 10 feet	5 - 10 feet	Maple (spp.)	Medium	5 - 10 feet	5 - 10 feet																								
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64	4130 - Aspen	Sapling Well	11.4	7	Immature	N/A	Clearcut (no retention) in 2018 as part of Ahlman Lake Aspen, #019-17. ORV trail runs through the stand. Old notes state "aspen was cut in 1973". The 1973 cut must not have been a clean cut. Liminga-Alcona soil complex.																																																				
<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>90</td><td>Log</td><td>1</td><td>7</td></tr><tr><td>Red Maple</td><td>5</td><td>Log</td><td>1</td><td></td></tr><tr><td>Pin Cherry</td><td>5</td><td>Log</td><td>1</td><td></td></tr></table>						Canopy Species		% Cover	Size Class	DBH	Age	Quaking Aspen	90	Log	1	7	Red Maple	5	Log	1		Pin Cherry	5	Log	1																																		
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65	4112 - Maple, Beech, Cherry Association	Sawtimber Well	18.3	90	81-110	N/A	Select cut in 2018 as part of Ahlman Lake Aspen, #019-17. Left a component of aspen and spruce; released around hemlock and yellow birch. 2016: Sugar maple with red maple, yellow birch and large aspen. Component of hemlock and spruce. Primarily sugar maple. Some decent quality in the sawlog sugar maple. Fairly tall trees. Northern portion of the stand contains more hemlock and spruce (pockets). Most of the aspen is along the edge of the trees bog. Good quality in the understory. Pockets of yellow birch throughout stand. Liminga-Alcona soil complex.																																																				
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66	6225 - Bog	None	1.6			No	small bog with treed edge																																																				
67	6224 - Treed Bog	None	5.1	0		No	Bog type ground. Low quality stand of black spruce. Some dead white pine.																																																				
68	6225 - Bog	None	2.6			No	Dawson, Greenwood and Loxley peats																																																				

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																									
69	4112 - Maple, Beech, Cherry Association	Sawtimber Well	25.9	95	111-140	N/A	Thinned as sale #19-97. Completed 12/30/98. Mix of hard maple and red maple. Some good quality in the sugar maple. Slight top dieback on some red maple. Some scattered beech throughout, but most of the beech is dead now. Good regeneration coming in, mix of maple and beech. Skid trails from the harvest are filling in with saplings. Overstory BA ranges from 70-120. Some open areas in canopy still, especially where beech has died out. Liminga-Alcona soil complex.																																									
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70	6129 - Mixed Coniferous Lowland Forest	Sawtimber Well	15.7	93	81-110	N/A	Mix of spruce and tamarack with some hemlock and white pine. More hemlock on the edge of the hardwoods. More tamarack along the edge of the pond within the stand. Dawson, Greenwood and Loxley peats.																																									
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71	4112 - Maple, Beech, Cherry Association	Sawtimber Well	19.0	95	81-110	N/A	Stand harvested via selection as sale #051-08-01, Section 30 Hardwoods. Complete 07/02/10. Tall, straight maple. Some good quality in both the hard maple and red maple. Scattered black cherry. Drainage flowing west to east through the middle of the stand (from bog to west to the pond to the east). Slightly less quality in the north portion of the stand. Liminga-Alcona soil complex.																																									
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72	6225 - Bog	None	8.5			No																																										
74	4116 - Mixed N. Hardwood - Aspen	Sapling Well	40.9	15	Immature	N/A	LUCE COUNTY LEASE LAND. Stand was originally 2 stands. All clearcut (2003, 2007) and proposed to be planted to red pine. Stand had a chemical site prep 09/04/2008. Another chemical site prep in Fall 2011. Prescribed burn (DNR) done in 2011. Not a clean burn, didn't kill/knock back much of the hardwood competition. Trenched in Fall 2012. Planting to red pine didn't happen. Grossman Forestry (on behalf of Luce County) decided to let the stand continue to regenerate to aspen, maple, cherry, etc. Old notes: Stand was originally planted in 1960. Recently final harvested in 2003-2004. Management plan states that the stand is to be re-planted to red pine after final harvest. Grossman Forestry will have a planting plan developed next spring to replant the stand back to red pine. The site will be herbicided, trenched and planted, followed by a release.																																									
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75	42110 - Planted Red Pine	Sapling Poor			26.0	14	Immature	N/A	LUCE COUNTY LEASE LAND. Stand was harvested in 2011. Trenched 09/16/2011. Planted 10/24/2011. Released 09/03/2013. Replanted 11/17/2014. Scheduled for release in 2016 if needed. Stand was set up for sale in 2003, thinned between 2003-2004. January 2004 Administrative Update - Luce County Lease Lands list this stand as precribed for harveste again in 2011. The plan of the county forester is to evaluate the stand for final harvest, followed by site preparation and planting back to red pine, in accordance with the management plan specifications. Treatment should be within the guidelines established in the management plan of the Luce County Lease.																																								
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76	4112 - Maple, Beech, Cherry Association	Poletimber Well			8.3	95	81-110	N/A	LUCE COUNTY LEASE LAND. Open canopy maple stand with M3 understory. Pocket of aspen in the middle of the stand along the road. Some quality in the stand. Some large diameter beech. Liminga-Alcona soil complex.																																								
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77	4112 - Maple, Beech, Cherry Association	Poletimber Well			7.5	95	81-110	N/A	LUCE COUNTY LEASE LAND. Originally prescribed by county for conversion to red pine. Recommend leaving as hardwood stand. Some quality within the stand. Scattered yellow birch. Basal area ranges from 90-110 sq ft on average. Liminga-Alcona soil complex. The most recent information from the county forester is to maintain as a hardwood stand a evaluate for a traditional thinning/selection within the next 10 years, probably in 2011 when stand 75 is harvested. Update 2015: Stand was not thinned as part of the sale when stand 75 harvested.																																								
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78	4110 - Sugar Maple Association	Sawtimber Well			5.2	95	81-110	N/A	Small hardwood stand bordering Co Rd 407 and Luce County Lease Land. Some quality in the hard maple. Both sugar maple and red maple are multiple stems. Stand BA averages 100-130. M6 stand with an M9 component. Occasional aspen. Liminga-Alcona soil complex.																																								
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79	4130 - Aspen	Poletimber Well			6.1	49	51-80	N/A	Young pole size aspen. Areas still sapling size aspen. Good conifer component. Component of white birch along Co Rd 407. Log size red pine throughout the stand. Thick stand. Liminga-Alcona soil complex.																																								
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																				
80	4130 - Aspen	Sapling Well	60.8	9	Immature	N/A	<p>It was to be roller chopped and trenched this summer, 2022, site prep sprayed in 2023 and planted in 2024. A field visit/inspection of this site showed a good portion of the stand stocked with advanced regeneration. The height and diameter of the regeneration in these areas make it much less likely to obtain effective site prep. The acreage that can be effectively site prepped has been reduced considerably from the original treatment acreage. It has been 6 years since the harvest. At this point, cultivation site prep treatments will be ineffective to prepare the site for planting this site and establishing a fully stocked red pine stand.</p> <p>Active treatment of roller chopping will be removed. All subsequent cultivation next step treatments will be removed. Stand will be allowed to regenerate naturally to the species currently regenerating....aspen, maple, cherry and other deciduous species.</p> <p>Final harvest in 2018, Kyle Wendt Crazy Pine (#029-17). FTP 42-960 for Rx burn, trench and plant to red pine. Fingers will be left as natural regeneration due to stand 82 being incorporated into this stand to block up plantation.</p> <p>Stand was thinned as sale #550-07-01. Completed 06/03/2009. Limby trees, large diameters, averaging 14 inches. Lots of porcupine damage throughout the stand, especially in eastern portions near the aspen stands. Quality and heights vary throughout the stand. Tall 7 stick red pine in areas down to 4 sticks in other areas. Stand should be harvested and replanted.</p> <p>Red Pine plantation planted in 1959. East and west rows. Some larger (12-14" dbh) trees that are fairly limby. Low quality logs. More aspen in the east half of the stand. No evidence of the stand ever being thinned. High basal area. Prescribe for a thinning, 3rd row thinning if spacing between rows allows. If tight in areas, go to a method of removing 2 rows and leaving 3 rows. Management objective is to thin the stand and improve the growth and vigor of the residual trees. No alternative MO is needed. Liminga-Alcona soil complex. ***Stand harvested as "Porky Pine", sale #005-07-01. Complete 6/3/09.</p>																																				
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83	4130 - Aspen	Poletimber Well	6.1	49	51-80	N/A	<p>Young pole size aspen. Pocket of sugar maple in the middle of the stand. Component of balsam and spruce. Component of log size red pine. Thick stand. Liminga-Alcona soil complex.</p>																																				
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84	4130 - Aspen	Sapling Well	7.8	7	Immature	N/A	Clearcut in 2018 as part of Missing Fingers Aspen, #026-17.																																				
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85	4110 - Sugar Maple Association	Sawtimber Well	9.9	95	81-110	N/A	Sugar maple stand with aspen and balsam..Multiple stems, doubles and triples. Clumpy appearance to the stand. Some beech. Some better quality in the single stem maple. Stand will provide a nice "visual break" for the adjacent aspen clearcuts. Liminga-Alcona soil complex.																																	
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87	4130 - Aspen	Sapling Well	21.0	7	Immature	N/A	Clearcut in 2018 as part of Missing Fingers Aspen, #026-17. Retentions pockets left along north and south boundary.																																	
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88	3102 - Grass	None	1.7			No	Opening with clumps of cherry and aspen encroachment from adjacent stands. Scattered spruce and balsam. Liminga-Alcona soil complex.																																	
89	4211 - Planted Red Pine	Unspecified	10.2	3	Immature		2024 Artificial Regen Linear Survey Report:Forest Resource Services SPP: RPPlanted TPA: 838Survived TPA: 737% mortality: 12% free to grow: 27Height: 2.4Notes: release requiredSite planted to 720 TPA red pine on 5/6/2022. Planted 745 TPA. 44% FTG.10/13/21 - Site prep sprayed on 9/1/21. 5/26/21 - Site trenched in fall of 2020 as part of POW2021. Site prep and initial plant on POW. Burning of the site dropped based on budget concerns and site was suitable for trenches.2019: Clearcut in 2018 as part of Hornet Nest Red Pine, #023-17. FTP 42-959 for burning, trenching, planting, herbicide.Planted in 1949. Stand was thinned as sale #026-97. Removed all species other than red pine and also marked red pine. Thick M3/A3 understory now present after the harvest. Maple, cherry and beech 10-20 ft tall and thick. Good quality in the residual red pine. Average 14 inch diameter. BA ranges from 60 up to 140. Liminga-Alcona soil complex.																																	
90	42111 - Planted Red Pine, Mixed Deciduous	Sapling Poor	46.4	14	Immature	N/A	LUCE COUNTY LEASE LAND. Stand was clearcut in 2011. Trenched Fall 2012. Planted in Fall 2012. Released (spray) 09/03/2013, a portion of the red pine were killed by the herbicide mix. Re-planted 11/17/2014.																																	
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																						
91	4130 - Aspen	Poletimber Well	7.1	43	1-50	N/A	LUCE COUNTY LEASE LAND.																																																						
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92	42110 - Planted Red Pine	Sawtimber Well	24.2	76	111-140	N/A	LUCE COUNTY LEASE LAND. Stand was partially thinned through in 2011. This stand is a portion of the originally larger R9 stand that was removed from the clearcut prescription. A portion of the stand was thinned and the rest was not managed.																																																						
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93	4130 - Aspen	Poletimber Well	4.3	43	1-50	N/A	LUCE COUNTY LEASE LAND.																																																						
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95	4136 - Aspen, Mixed Conifer	Sawtimber Well	6.1	75	111-140	N/A	Mature aspen. Lots of mortality and blowdown in the aspen. Aspen diameters vary throughout the stand. Pockets of spruce and balsam. White birch component. Lots of small diameter maple, 3-4 inches. Thick pockets with high BA. Spruce around the openings. Liminga-Alcona soil complex.																																																						
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Stand	Level 4 Cover Type	Size Density				Acres	Stand Age	BA Range	Managed Site	General Comments	
97	4133 - Aspen, Mixed Pine	Sapling Well				13.9	17	1-50	N/A	Red pine was planted in 1949. Stand harvested as "455 Pine", sale #032-07-01. Completed 11/12/08. Thinned. Jack Pine removed and Red Pine thinned. Summer 2012: Aspen = 2740. Stand is regenerating to nice aspen and maple regeneration. Thick regeneration with residual red pine. No treatment prescribed. Allow the stand to convert to aspen, maple with a large diameter red pine component.Old Notes: Planted to red pine in fall of 1949. Stand is a mix red pine, jack pine and smaller maple and some aspen. Alternating rows of red pine and jack pine. Pockets of maple and aspen. Jack pine is mature, showing decline and needs to be harvested out of the stand. Harvest the stand by thinning. Remove all jack pine, maple and aspen. Some red pine may be marked in areas for maneuverability if needed. Manage the stand for red pine. Set up for sale with stand 98. Management objective is to thin the stand to improve the growth and vigor of the residual red pine. No alternative management objective is needed. Liminga-Alcona soil complex.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height		Size
Red Maple		25	Log	2		Balsam Fir		Low	Variable		Variable
Quaking Aspen		50	Log	3	17						
Red Pine		25		12	76						
98	4311 - Pine, Aspen Mix	Sapling Well				6.5	17	Immature	N/A	Stand harvested as "455 Pine", sale #032-07-01. Completed 11/12/08. Stand burned spring 2009. Stand planted to jack pine in spring 2010 (trenched). Summer 2012: Aspen = 2740	
Canopy Species		% Cover	Size Class	DBH	Age						
Jack Pine		25	Log	3	17						
Red Pine		30	Log	4	17						
Quaking Aspen		15	Log	1							
Black Cherry		20	Log	1							
Red Maple		10	Log	1							
Stand is a mix of jack pine, red pine, aspen, maple and cherry. Stand looks to have had red pine planted....at same time jack pine was planted? Followup planting? Northern end of the stand has a higher component of jack pine and red pine than the southern portion. More hardwoods competition in the southern end. Jack pine and red pine average about 3-4 ft tall.											
Regen 2013: Planted red pine 525 TPA.											
2018: Red Pine release done by Skyline helicopters Overall, results were excellent. South edge about 30ft was missed, due to drift. 90% mortality in aspen up to 10 ft tall. Very few cherry survived. Overall, release spray was very effective.											
99	4130 - Aspen	Poletimber Well				8.4	57	51-80	N/A	Aspen stand adjacent to Co Rd 455. Aspen overstory with aspen and maple understory. Low quality. Thicker in spots - clones of aspen. Areas of sapling size maple and cherry without much aspen. Some decay/rot in the stand. Scattered spruce. Hold for 10 years for age class diversity until the stand is more mature. Also will serve as a visual buffer along Co Rd 455 with adjacent harvests. Liminga-Alcona soil complex.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height		Size
Red Maple		25	Pole	4		Cherry (spp.)		High	5 - 10 feet		5 - 10 feet
White Pine		2		9		Maple (spp.)		Medium	5 - 10 feet		5 - 10 feet
White Spruce		3	Seedling	8							
Black Cherry		10	Pole	4							
Quaking Aspen		60		8	57						
100	429 - Mixed Upland Conifers	Poletimber Poor				25.9	45	1-50	N/A	Large opening starting to fill in with clumps of cherry and aspen. Scattered spruce and balsam. Liminga-Alcona soil complex.	

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
101	4211 - Planted Red Pine	Unspecified	8.6	4	Immature		2024 Artificial Regen Linear Survey Report:Forest Resource Services SPP: RPPlanted TPA: 763Survived TPA: 701% mortality: 9% free to grow: 46Height: 2.1Notes: needs release
							Site planted with 805 TPA red pine on 5/6/2022. First year regen survey: RP 608 TPA 55% FTG. Potential for release spray in the future if needed.10/13/2021- Site prep sprayed 8/31/2021.5/26/21 - Site trenched fall of 2020. Site prep and initial RP plant now on POW. Burn was dropped due to budget and was suitable to now trench.
							2019: Clearcut in 2018 as part of Hornet Nest Red Pine, #023-17. FTP 42-959 for burning, trenching, planting, herbicide.Stand thinned as "455 Pine", sale #032-07-01. Completed 11/12/08. Stan was planted in 1949, thinned in 1980 and thinned again in 1999 (#026-97). Stand is ready to be final harvested and replanted to red pine. Good diameters, utility pole market size throughout stand. Manage as a red pine plantation.