



Compartment Review Presentation

Newberry Forest Management Unit

Compartment 42093

Entry Year 2022

Acreage: 3,096

County Luce

Management Area: Danaher Kingston Outwash

Revision Date: 2020-08-05

Stand Examiner: Jennifer Burnham

Legal Description:

T46N R12W Sections 20, 21, 28, 29, 32, 33, and 34.

Identified Planning Goals:

This compartment is located within the Danaher/Kingston Outwash Management Area. Management goals for the compartment is to maintain forest health, diversity, and sustainability while considering wildlife, fisheries, recreation, and environmental needs and concerns. This compartment is located within the Danaher/Kingston Outwash Management Area.

Soil and topography:

The compartment is predominately sandy outwash plains where the topography is level to slightly rolling. There are some steep sand banks along the Tahquamenon River.

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

The compartment is entirely State owned land as well as the adjacent land to the south and west. The land the north and east is a privately owned with a majority of that being commercial forest land. Many of the individually owned private land parcels have cabins on them and are primarily used for recreation. The State land in this area has been historically managed for timber production as well as providing habitat for wildlife. It has also provided opportunities for recreational activities such as hunting, fishing, snowmobiling, ORV riding, wildlife viewing and berry picking.

Unique Natural Features:

Michigan Natural Features Inventory lists the potential for sharp-tailed grouse, eagle, goshawk, great blue heron rookery and osprey. Also listed is the potential for moose and wolf. In addition MNFI lists the potential for sweet coltsfoot, Wiegand's sedge, northern prostrate clubmoss, fir, clubmoss, English sundew, meadow beauty, round-leaved orchis, black crowberry, yellow pitcher-plant, and panicked screwstem in bogs and open wetlands.

Archeological, Historical, and Cultural Features:

None known.

Special Management Designations or Considerations:

This compartment contains a portion of the Tahquamenon River corridor. Follow BMP guidelines if treatments are adjacent to the river corridor.

Watershed and Fisheries Considerations:

Splitting this compartment is the Tahquamenon River. This section of the Tahquamenon River is a designated trout stream and is less than 50 ft in width. In stands where aspen regeneration is likely or a major component, treatments should adhere to a 300 ft buffer in accordance with Best Management Practices.

Wildlife Habitat Considerations:

Compartment 93 The compartment lies in west-central Luce county and is in the Grand Marais Sandy End Moraine and Outwash ecological sub-subsection. It also lies within the Danaher-Kingston Plains Management Area with sharp-tailed grouse, Kirtland's warbler, red crossbill, eastern bluebird, upland sandpiper, and spruce grouse are featured species. The compartment has a mixture of jack pine, aspen and red and white pine stands with more jack pine occurring in the western portion and more aspen in the eastern portion. Stands tend to have limited species diversity. There are several hundred acres of regenerating jack pine plantations in the western half of the compartment. The Tahquamenon river runs through the compartment on the eastern side.

The large, regenerating jack pine stands should be monitored for Kirtland's warbler as the stands become potential suitable habitat. Harvested stands will strive to maximize species diversity post-harvest to be the most beneficial to wildlife values. Legacy trees exist in some harvested stands and will serve to provide necessary roost and den trees and later ample coarse woody debris. Wildlife species using this compartment include, bobcat, black bear, coyote, wolves, Kirtland warbler and sharptailed and ruffed grouse.

Mineral Resource and Development Concerns and/or Restrictions

No known potential exists for commercial oil & gas production in this part of the state, and there is no known potential for metallic minerals in this area. The closest active sand/gravel pit is more than five miles to the southwest. Little information is available on the composition of the surficial sediments within the compartment. There may be potential for sand & gravel, but demand may be low in this area. No current mineral leasing activity exists in the area.

Vehicle Access:

County Roads 421 and 475 are the main roads used to access the compartment. They are seasonally maintained by the County Road Commission and receive routine grading in the snow-free months. The Danaher Plains Road, McLeod Trail, Clarks Trail as well as several other sand two tracks offer further access into the compartment. They receive little to no maintenance.

Survey Needs:

None at this time.

Recreational Facilities and Opportunities:

There is a DNRE designated snowmobile trail traversing across the northern part of the compartment. Other opportunities that exist would be hunting, fishing, ORV riding, wildlife viewing and berry picking.

Fire Protection:

The Seney Field Office is responsible for wildfire response to this area. The compartment is part of the Fox River Major Zone Dispatch Area. Potential for large fire growth would be high because of continuous Pine types. Risk to private properties could be high because of upland fuel types adjacent to private properties.

Additional Compartment Information:

The following reports from the Inventory are attached:

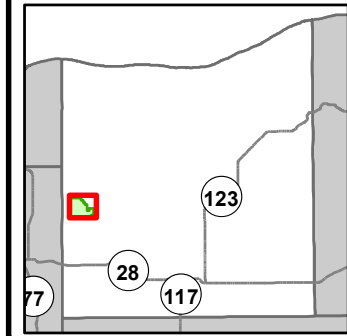
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

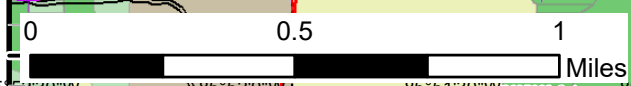
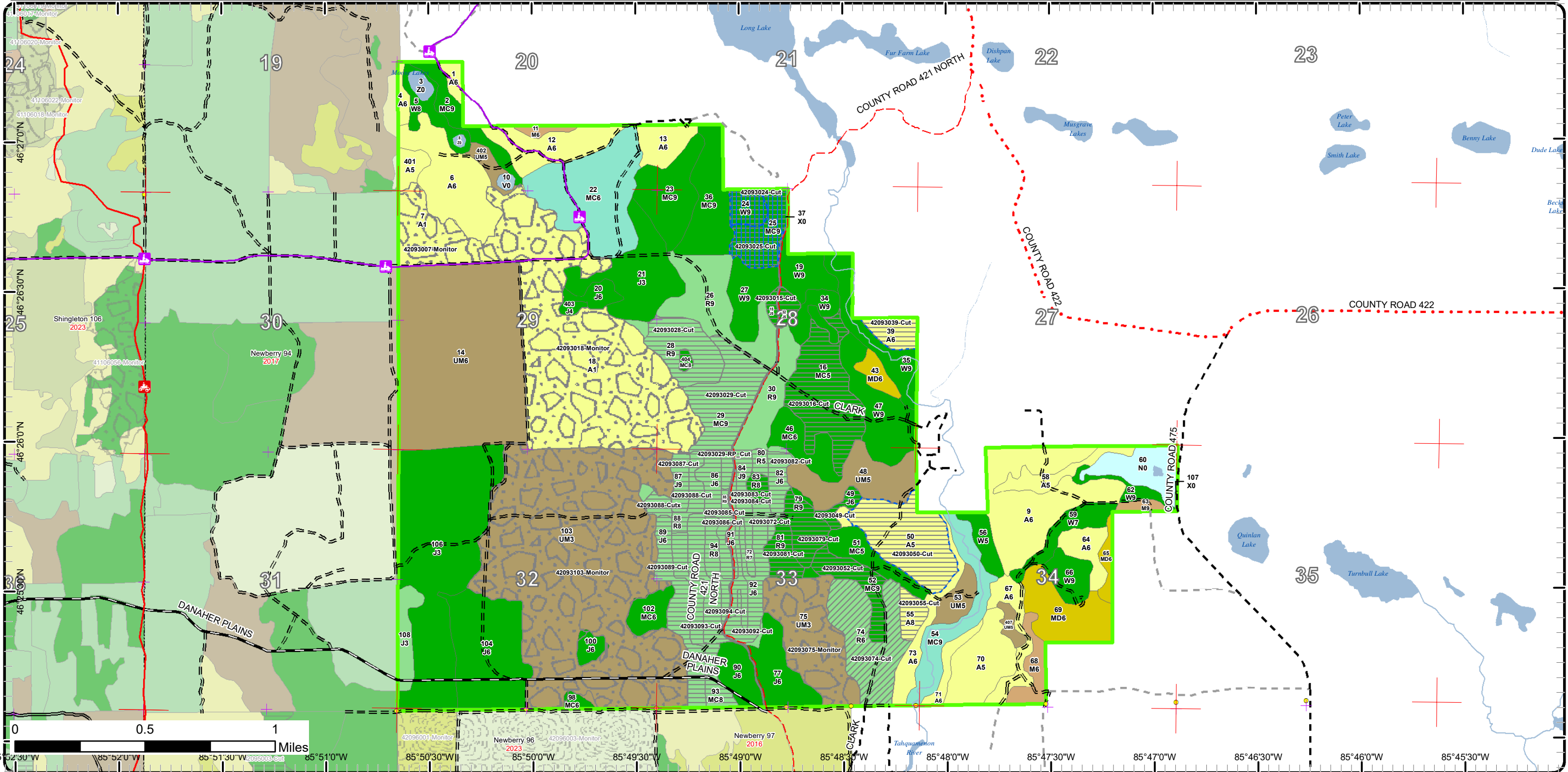
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 93
 T47N, R12W, Sec. 20, 21, 28, 29,
 32-34
 County: Luce
 Unit: Newberry
 Mgmt Area: Danaher Kingston
 Outwash
 YOE: 2022
 Acres: 3095.5 GIS Calculated
 Examiner: Jennifer Burnham
 Map Revised: 1/25/2021
 Map Phase: Post-Review



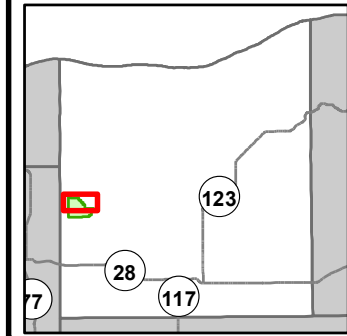
- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
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- Designated Snowmobile Trails
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- Perennial River
- Lakes and Rivers
- Compartment Boundary
- Clearcut (w/Reserves)
- Seed Tree (w/Reserves)
- Thinning (Crown, Low, Systematic)
- Regeneration Survey
- 430 - Upland Mixed Forest
- 122 - Roads/Parking Lot
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 429 - Mixed Upland Conifers



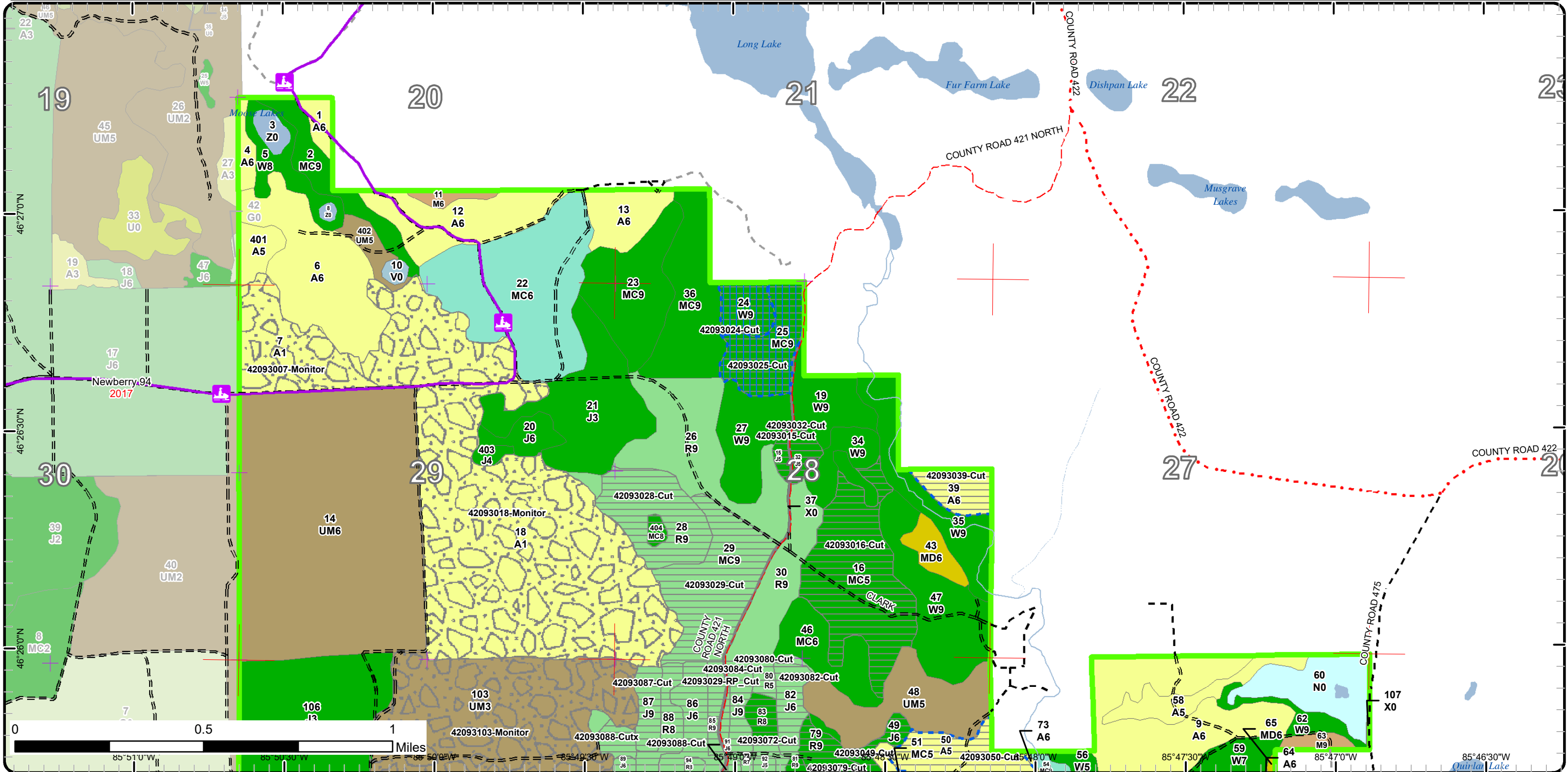
0 0.5 1 Miles
 85°52'30"W 85°52'0"W 85°51'30"W 85°51'0"W 85°50'30"W 85°50'0"W 85°49'30"W 85°49'0"W 85°48'30"W 85°48'0"W 85°47'30"W 85°47'0"W 85°46'30"W 85°46'0"W 85°45'30"W

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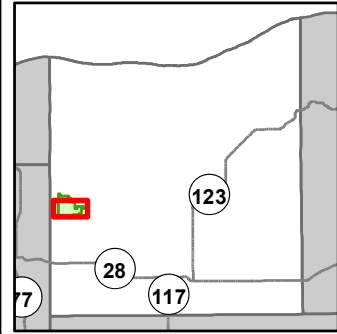


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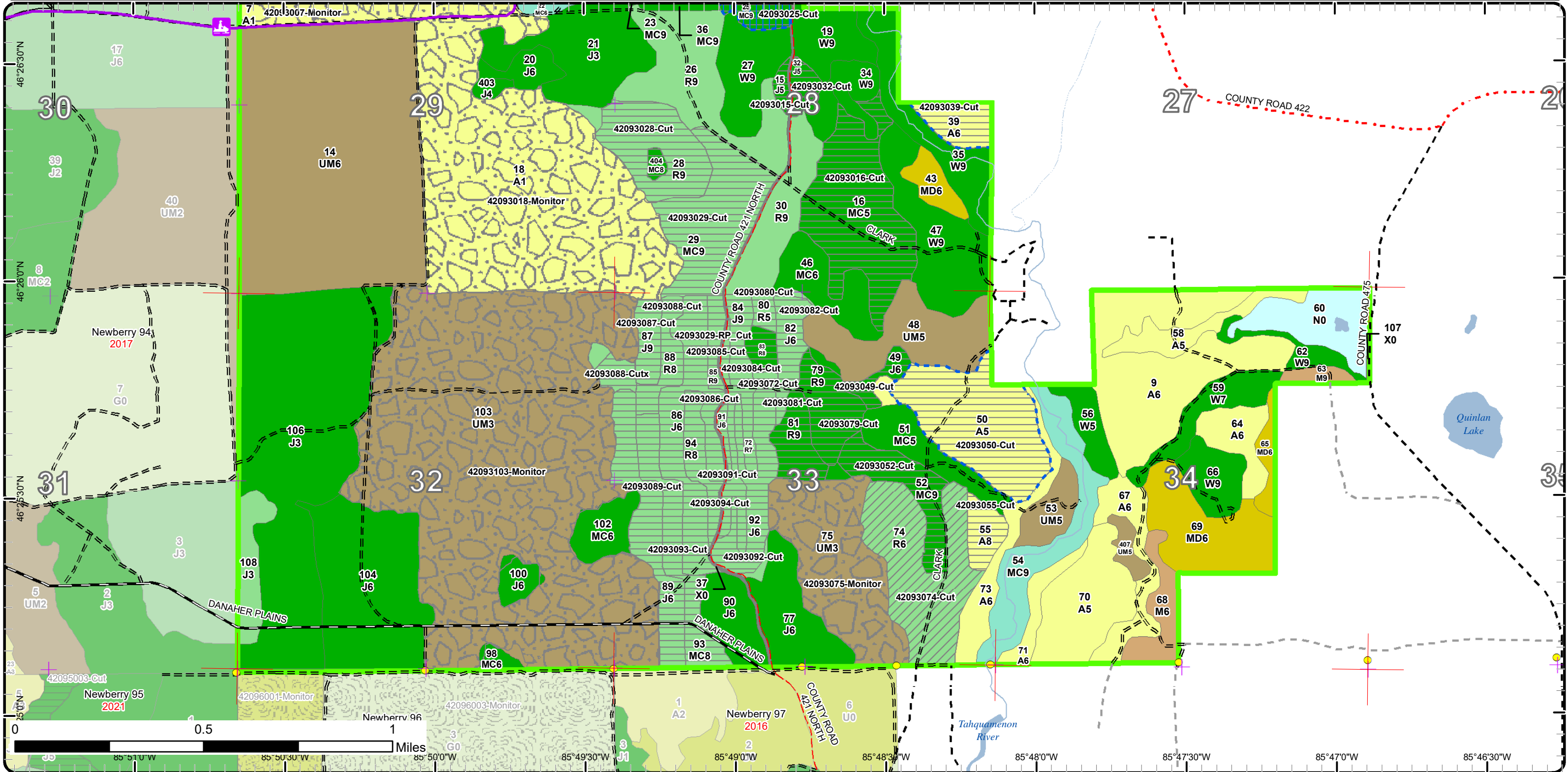


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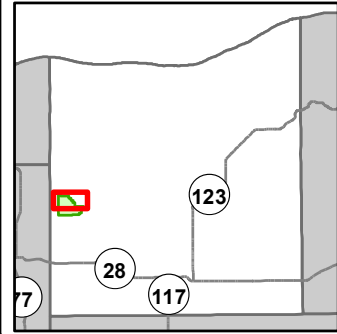


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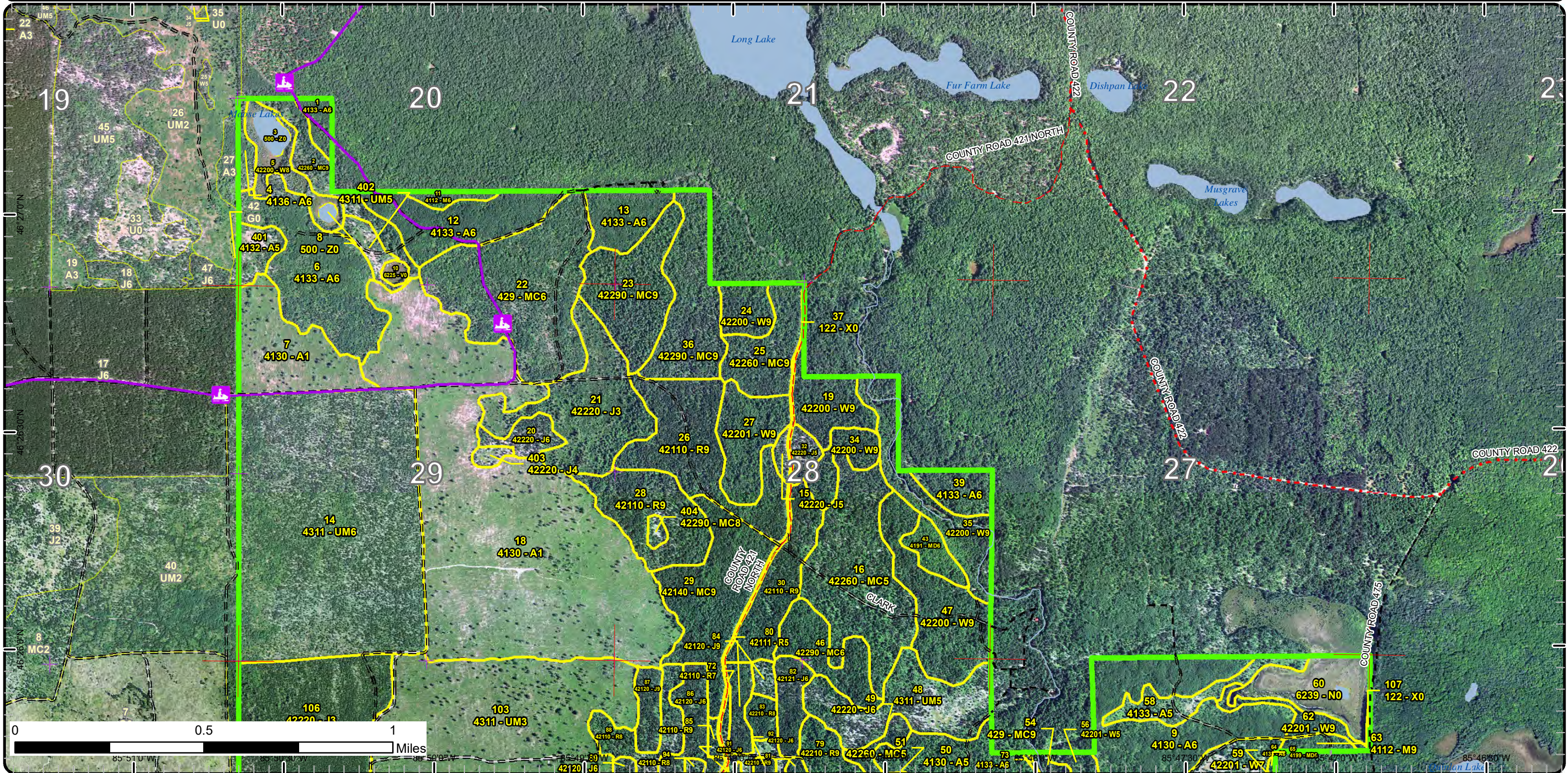


Stand Boundary Map

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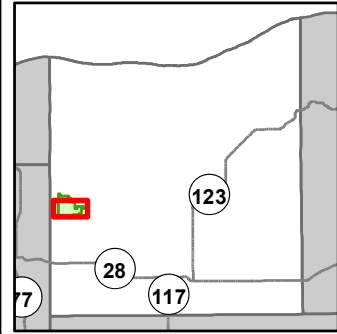


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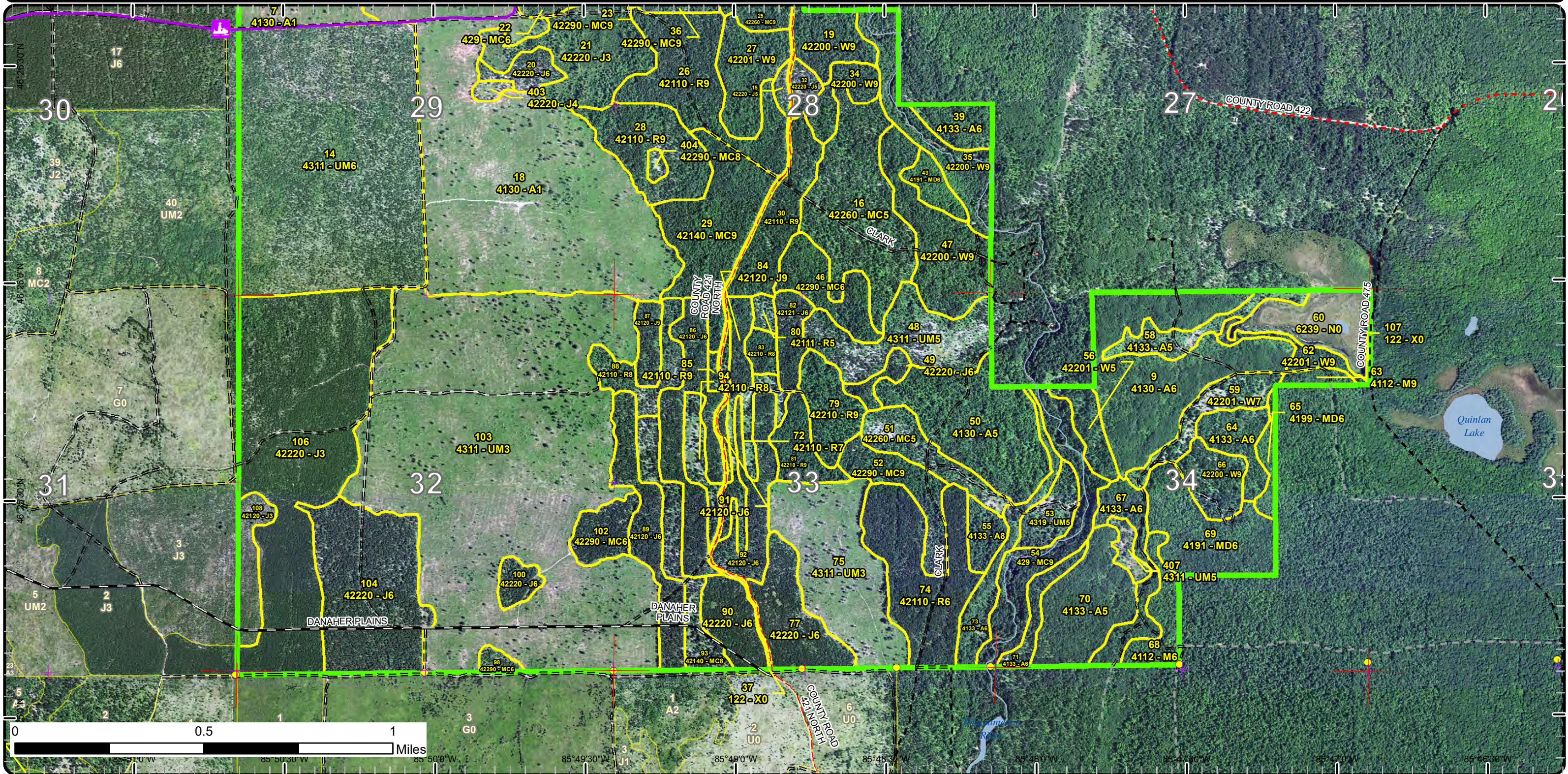


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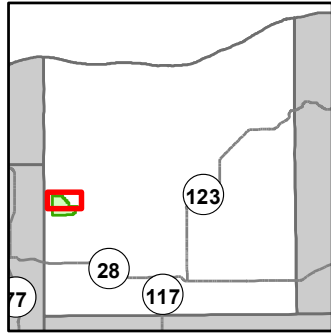


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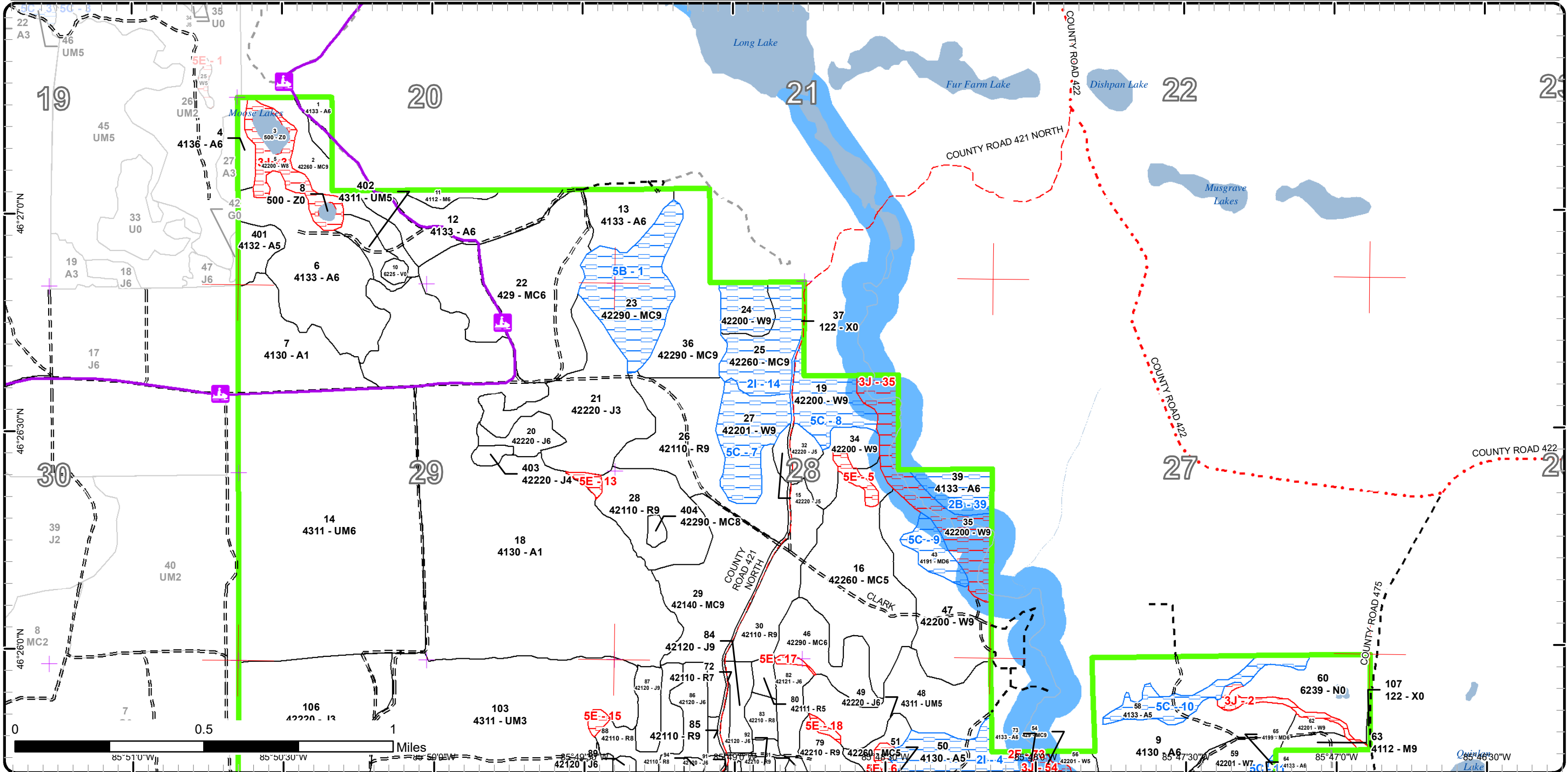


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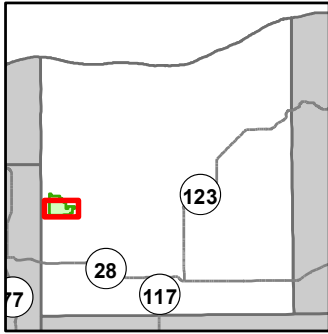


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- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 2I: Survey needed
- 5B: Maintain for regeneration purposes
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 2F: Too steep
- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention
- Stand Boundaries
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer

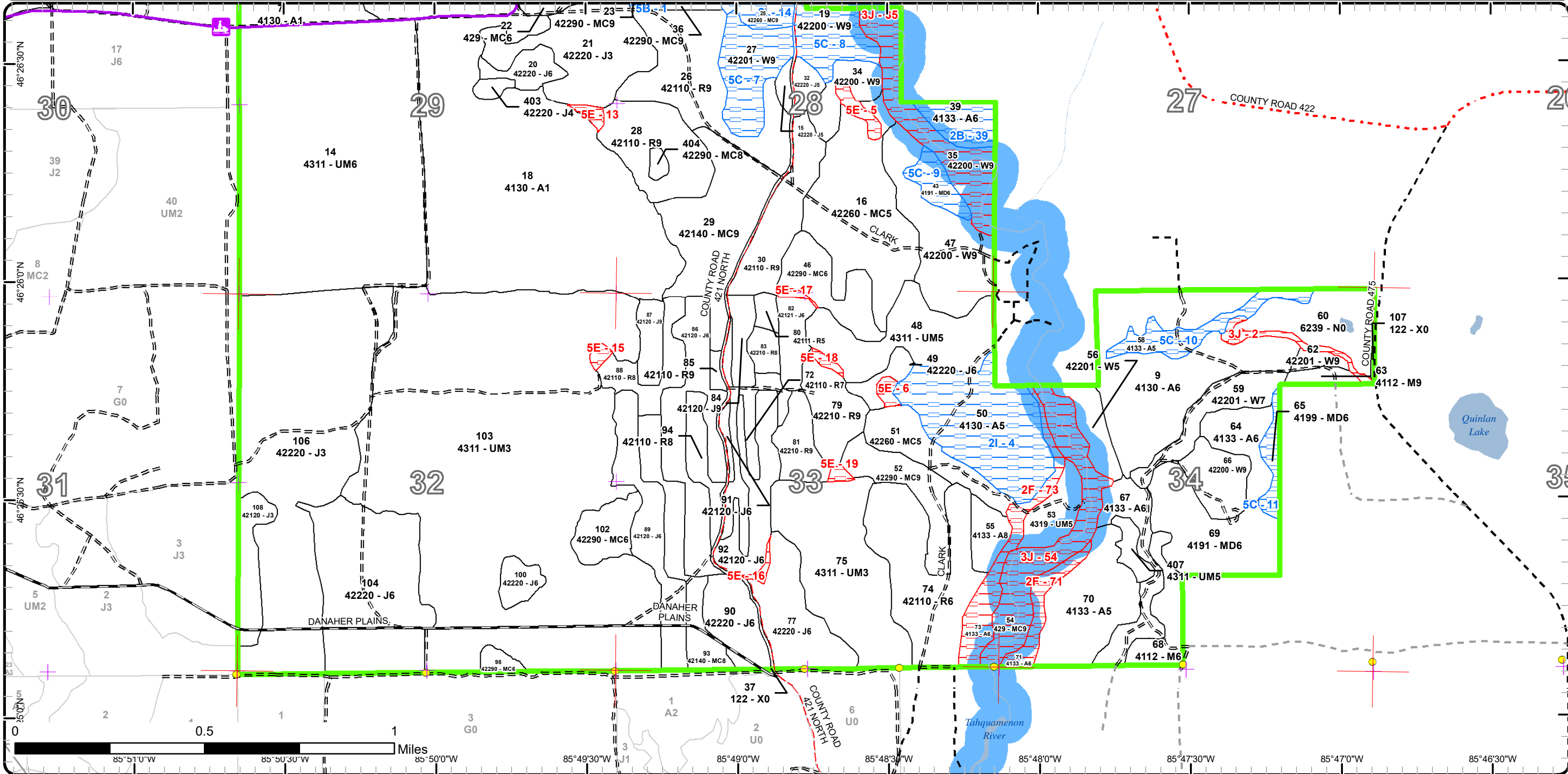


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Report 1 – Total Acres by Cover Type and Age Class

Newberry Mgt. Unit

Compartment 93

Year of Entry 2022

Jennifer Burnham : Examiner



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	304	0	200	47	46	16	70	29	13	0	0	0	0	0	0	0	0	725
Bog	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Jack Pine	0	0	55	236	10	86	0	137	8	0	0	0	0	0	0	0	0	0	531
Marsh	29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	29
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	0	9	7	0	0	0	0	0	0	41	57
Natural Mixed Pines	0	0	0	0	18	2	0	130	0	91	0	41	0	0	0	0	0	0	281
Northern Hardwood	0	0	0	0	4	16	0	0	0	0	0	0	0	0	0	0	0	5	25
Planted Mixed Pines	0	0	0	0	0	0	0	77	0	0	0	0	0	0	0	0	0	0	77
Red Pine	0	0	0	0	0	0	0	250	0	0	21	0	0	0	0	0	0	0	270
Upland Conifers	0	0	0	84	0	0	0	0	0	0	39	0	0	0	0	0	0	0	123
Upland Mixed Forest	0	452	0	0	262	13	0	14	0	0	0	0	0	0	0	0	0	0	741
Urban	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
Water	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
White Pine	0	0	0	0	0	0	0	26	12	0	103	0	0	0	0	0	0	77	217
Total	46	756	55	520	341	163	16	704	49	113	170	41	0	0	0	0	0	123	3093



Report 2 – Treatment Summary

Newberry Mgt. Unit

Year of Entry: 2022

Acres of Harvest

Compartment 93

Total Compartment Acres: 3,096

Commercial Harvest - 500
 Harvests with Site Condition - 109
 Next Step Harvest - 0
 Habitat Cut - 0

Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Aspen	81	0	0	0	0	0	0	0	0	81
Jack Pine	142	0	0	0	0	0	0	0	0	142
Natural Mixed Pines	88	0	0	26	0	0	0	0	0	114
Planted Mixed Pines	77	0	0	0	0	0	0	0	0	77
Red Pine	125	0	0	0	0	58	0	0	0	183
White Pine	0	0	0	12	0	0	0	0	0	12
Total	513	0	0	38	0	58	0	0	0	609

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	609	0	0	0	0	0	755	0	0	1365
Next Step	0	470	410	0	0	1160	1717	0	0	3757
Total	609	470	410	0	0	1160	2472	0	0	5121



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

7	42093007-Monitor	40.9	4130 - Aspen	Sapling Poor	6	Immature	Monitoring	Artificial Regen(3yr)	42120 - Planted Jack Pine	Even-Aged	No
<p><u>Prescription</u> Take a look at the aspen over topping the jack pine to determine if a release is needed. <u>Specs:</u> <u>Next Step</u> Monitoring, Artificial Regen(3yr); Pesticide, Aerial - Site Prep <u>Treatments:</u> <u>Acceptable</u> Jack Pine <u>Regen:</u> <u>Other</u> Percent to Treat = 100% <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2020</p>											
15	42093015-Cut	2.9	42220 - Natural Jack Pine	Poletimber Medium	73	1-50	Harvest	Clearcut	4212 - Planted Jack Pine	Even-Aged	No
<p><u>Prescription</u> No retention due to small acreage. <u>Specs:</u> <u>Next Step</u> Pesticide, Aerial - Site Prep; SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr) <u>Treatments:</u> <u>Acceptable</u> Jack pine <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2021</p>											
16	42093016-Cut	64.1	42260 - Natural Pine, Mixed Deciduous	Poletimber Medium	84	51-80	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Final harvest stand leaving retention in the area delineated out. Leave varied species in the red line. <u>Specs:</u> <u>Next Step</u> Pesticide, Aerial - Site Prep; SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr) <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> 10/1 /2021</p>											



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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18	42093018-Monitor	263.6	4130 - Aspen	Sapling Poor	6	Immature	Monitoring	Artificial Regen(3yr)	42120 - Planted Jack Pine	Even-Aged	No
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Prescription Take a look at the aspen over topping the jack pine to determine if a release is needed.

Specs:

1/11/21 - JAT - Possibly spray to release jack pine, depending on what is found with 2021 regen survey. Spray acreage would be up to 150 acres between stand 18 and 103.

Next Step Monitoring, Artificial Regen(3yr); Pesticide, Aerial - Release

Treatments:

Acceptable jack pine

Regen:

Other Percent to Treat = 100%

Comment:

Site Condition

Proposed Start Date: 10/1 /2020

24	42093024-Cut	11.9	42200 - Natural White Pine	Sawtimber Well	96	51-80	Harvest	Seed Tree with Retention	429 - Mixed Upland Conifers	Even-Aged	No
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Prescription Remove all species except 30 BA of the larger and wind firm red and white pine through the stand. Leave some larger aspen in the red line.

Specs:

Next Step SitePrep, Scarification; Monitoring, Natural Regen (Intermediate)

Treatments:

Acceptable White pine, aspen, some red pine, and other conifer and deciduous species that are currently present.

Regen:

Other

Comment:

Site Condition Survey Needed

Proposed Start Date: 10/1 /2021

25	42093025-Cut	25.6	42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	69	81-110	Harvest	Seed Tree with Retention	429 - Mixed Upland Conifers	Even-Aged	No
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Prescription Remove all species except for 30 BA of the larger and wind firm red and white pine through the stand. Leave some larger aspen in the red line.

Specs:

Next Step SitePrep, Scarification; Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable White pine, aspen and some red pine with other conifer and deciduous species that are currently present.

Regen:

Other

Comment:

Site Condition Survey Needed

Proposed Start Date: 10/1 /2021

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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
28 42093028-Cut	33.3	42110 - Planted Red Pine	Sawtimber Well	62	51-80	Harvest	Clearcut with Retention	42110 - Planted Red Pine	Even-Aged	No
<u>Prescription</u> Final harvest and replant to red pine. 3% retention along the north or west edge of the stand to help with aerial spraying.										
<u>Specs:</u>										
<u>Next Step Treatments:</u> Pesticide, Aerial - Site Prep; SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)										
<u>Acceptable Regen:</u> Red pine										
<u>Other Comment:</u>										
<u>Site Condition</u>										
<u>Proposed Start Date:</u> 10/1 /2021										
29 42093029-Cut	47.2	42140 - Planted Mixed Pine	Sawtimber Well	62	81-110	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	No
<u>Prescription</u> Final harvest and replant to red pine. 3% retention along the north or east edge of the stand to help with aerial spraying.										
<u>Specs:</u>										
<u>Next Step Treatments:</u> Pesticide, Aerial - Site Prep; SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)										
<u>Acceptable Regen:</u> Red pine										
<u>Other Comment:</u>										
<u>Site Condition</u>										
<u>Proposed Start Date:</u> 10/1 /2021										
29 42093029-RP_Cut	3.9	42140 - Planted Mixed Pine	Sawtimber Well	62	81-110	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	No
<u>Prescription</u> Final harvest with a replant to red pine. No retention for this part of the stand. Retention will be pockets designated in stands 82,88, and 92.										
<u>Specs:</u>										
<u>Next Step Treatments:</u> Pesticide, Aerial - Site Prep; SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)										
<u>Acceptable Regen:</u> Red pine										
<u>Other Comment:</u>										
<u>Site Condition</u>										
<u>Proposed Start Date:</u> 10/1 /2021										
32 42093032-Cut	5.5	42220 - Natural Jack Pine	Poletimber Medium	73	1-50	Harvest	Clearcut	4212 - Planted Jack Pine	Even-Aged	No
<u>Prescription</u> No retention due to small acreage.										
<u>Specs:</u>										
<u>Next Step Treatments:</u> Pesticide, Aerial - Site Prep; SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)										
<u>Acceptable Regen:</u> Jack pine										
<u>Other Comment:</u>										
<u>Site Condition</u>										
<u>Proposed Start Date:</u> 10/1 /2021										



Standard

Standard	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
	39 42093039-Cut	12.9	4133 - Aspen, Mixed Pine	Poletimber Well	83	51-80	Harvest	Clearcut	413 - Aspen	Even-Aged	No
	<u>Prescription</u> Final harvest. No retention due to small acreage.										
	<u>Specs:</u>										
	<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)										
	<u>Treatments:</u>										
	<u>Acceptable</u> Aspen and other species that are currently present.										
	<u>Regen:</u>										
	<u>Other</u> The 3J is for the river buffer. There is also a decent slope and any area left out of the treatment due to this could become retention areas.										
	<u>Comment:</u>										
	<u>Site Condition</u> Unknown Access										
	<u>Proposed Start Date:</u> 10/1 /2021										
	49 42093049-Cut	6.2	42220 - Natural Jack Pine	Poletimber Well	63	51-80	Harvest	Clearcut	4212 - Planted Jack Pine	Even-Aged	No
	<u>Prescription</u> Final harvest with no retention due to small acreage.										
	<u>Specs:</u>										
	<u>Next Step</u> ; SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)										
	<u>Treatments:</u>										
	<u>Acceptable</u> Jack pine.										
	<u>Regen:</u>										
	<u>Other</u>										
	<u>Comment:</u>										
	<u>Site Condition</u>										
	<u>Proposed Start Date:</u> 10/1 /2021										
	50 42093050-Cut	58.3	4130 - Aspen	Poletimber Medium	68	51-80	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
	<u>Prescription</u> Final harvest leaving a retention pocket and some of the larger white and red pine.										
	<u>Specs:</u>										
	<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)										
	<u>Treatments:</u>										
	<u>Acceptable</u> Aspen with a mix of other species that are currently present in the stand.										
	<u>Regen:</u>										
	<u>Other</u>										
	<u>Comment:</u>										
	<u>Site Condition</u> Survey Needed										
	<u>Proposed Start Date:</u> 10/1 /2021										
	52 42093052-Cut	22.1	42290 - Natural Mixed Pine	Sawtimber Well	68	51-80	Harvest	Clearcut with Retention	429 - Mixed Upland Conifers	Even-Aged	No
	<u>Prescription</u> Final harvest leaving the larger and wind firm red and white pine, preferably where they are already clumped. Include mature aspen in red line where possible.										
	<u>Specs:</u>										
	<u>Next Step</u> SitePrep, Scarification; Monitoring, Natural Regen (Re-Inventory)										
	<u>Treatments:</u>										
	<u>Acceptable</u> Regeneration will be the species that are currently present.										
	<u>Regen:</u>										
	<u>Other</u>										
	<u>Comment:</u>										
	<u>Site Condition</u>										
	<u>Proposed Start Date:</u> 10/1 /2021										



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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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55	42093055-Cut	9.6	4133 - Aspen, Mixed Pine	Sawtimber Medium	68	51-80	Harvest	Clearcut	413 - Aspen	Even-Aged	No
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Prescription Final harvest no retention to due small acreage. However stand 73 is a very steep slope and has adjacent acreage that will work as retention
Specs: for the stand. There may be additional acreage removed from the treatment due to the slope and line placement.

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

Acceptable Regeneration will be the species that are currently present.
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2021

72	42093072-Cut	19.1	42110 - Planted Red Pine	Sawtimber Poor	64	1-50	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	No
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Prescription Final harvest and replant to red pine. Retention for these stands will be placed in the retention pocket designated in stand 88.
Specs:

Next Step Pesticide, Aerial - Site Prep; SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)
Treatments:

Acceptable Red pine.
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2021

74	42093074-Cut	58.4	42110 - Planted Red Pine	Poletimber Well	62	81-110	Harvest	Systematic Thinning	4211 - Planted Red Pine	Even-Aged	No
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Prescription Remove every third row.
Specs:

Next Step
Treatments:

Acceptable Not a regeneration harvest.
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2021

75	42093075-Monitor	68.4	4311 - Pine, Aspen Mix	Sapling Well	6	1-50	Monitoring	Artificial Regen(3yr)	4212 - Planted Jack Pine	Even-Aged	No
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Prescription Monitor jack pine for aspen over topping the spp. Potential for release spraying.
Specs:

Next Step Monitoring, Artificial Regen(1yr); Pesticide, Aerial - Release
Treatments:

Acceptable Planted jack pine.
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2020



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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
79 42093079-Cut	19.2	42210 - Natural Red Pine	Sawtimber Well	96	51-80	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Final harvest leaving the larger and wind firm red and white pine. Leave these retention areas along the east edge to accommodate aerial spraying. Replant to red pine.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Pesticide, Aerial - Site Prep; SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Red pine.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										
80 42093080-Cut	3.6	42111 - Planted Red Pine, Mixed Deciduous	Poletimber Medium	62	51-80	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Final harvest and replant to red pine. Retention for these stands will be pockets designated in stands 82,88, and 92.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Pesticide, Aerial - Site Prep; SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Red pine.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										
81 42093081-Cut	14.1	42210 - Natural Red Pine	Sawtimber Well	64	81-110	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Final harvest and replant to red pine. 3% retention in a location that works well for aerial spraying.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Pesticide, Aerial - Site Prep; SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Red pine</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										
82 42093082-Cut	11.2	42121 - Planted Jack Pine, Mixed Deciduous	Poletimber Well	66	81-110	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Final harvest and replant to red pine. Retention for these stands will be pockets designated in stands 82,88, and 92.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Pesticide, Aerial - Site Prep; SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Red pine.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										



Standard

Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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83	42093083-Cut	5.7	42210 - Natural Red Pine	Sawtimber Medium	66	81-110	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	No
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Prescription Final harvest and replant to red pine. Retention for these stands will be pockets designated in stands 82,88, and 92.
Specs:

Next Step Pesticide, Aerial - Site Prep; SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)
Treatments:

Acceptable Red pine.
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2021

84	42093084-Cut	8.7	42120 - Planted Jack Pine	Sawtimber Well	66	51-80	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	No
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Prescription Final harvest and replant to red pine. Retention for these stands will be pockets designated in stands 82,88, and 92.
Specs:

Next Step Pesticide, Aerial - Site Prep; SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)
Treatments:

Acceptable Red pine
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2021

85	42093085-Cut	2.1	42110 - Planted Red Pine	Sawtimber Well	64	81-110	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	No
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Prescription Final harvest and replant to red pine. Retention for these stands will be pockets designated in stands 82,88, and 92.
Specs:

Next Step Pesticide, Aerial - Site Prep; SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)
Treatments:

Acceptable Red pine
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2021

86	42093086-Cut	39.5	42120 - Planted Jack Pine	Poletimber Well	66	51-80	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	No
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Prescription Final harvest and replant to red pine. Retention for these stands will be pockets designated in stands 82,88, and 92.
Specs:

Next Step Pesticide, Aerial - Site Prep; SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)
Treatments:

Acceptable Red pine.
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2021



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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
87 42093087-Cut	9.2	42120 - Planted Jack Pine	Sawtimber Well	66	51-80	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Final harvest and replant to red pine. Retention for these stands will be pockets designated in stands 82,88, and 92. <u>Specs:</u></p> <p><u>Next Step Treatments:</u> Pesticide, Aerial - Site Prep; SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)</p> <p><u>Acceptable Regen:</u> Red pine</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										
88 42093088-Cut	11.0	42110 - Planted Red Pine	Sawtimber Medium	64	51-80	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Final harvest and replant to red pine. Retention for these stands will be pockets designated in stands 82,88, and 92. <u>Specs:</u></p> <p><u>Next Step Treatments:</u> Pesticide, Aerial - Site Prep; SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)</p> <p><u>Acceptable Regen:</u> Red pine</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										
88 42093088-Cutx	5.0	42110 - Planted Red Pine	Sawtimber Medium	64	51-80	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Final harvest and replant to red pine. Retention for these stands will be pockets designated in stands 82,88, and 92. <u>Specs:</u></p> <p><u>Next Step Treatments:</u> SitePrep, Trenching; Planting, Initial Plant; Pesticide, Aerial - Site Prep; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)</p> <p><u>Acceptable Regen:</u> Red pine</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										
89 42093089-Cut	31.7	42120 - Planted Jack Pine	Poletimber Well	66	51-80	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Final harvest and replant to red pine. Retention for these stands will be pockets designated in stands 82,88, and 92. <u>Specs:</u></p> <p><u>Next Step Treatments:</u> Pesticide, Aerial - Site Prep; SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)</p> <p><u>Acceptable Regen:</u> Red pine</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
91 42093091-Cut	2.4	42120 - Planted Jack Pine	Poletimber Well	66	51-80	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Final harvest and replant to red pine. Retention for these stands will be pockets designated in stands 82,88, and 92. <u>Specs:</u></p> <p><u>Next Step Treatments:</u> Pesticide, Aerial - Site Prep; SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)</p> <p><u>Acceptable Regen:</u> Red pine</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										
92 42093092-Cut	24.9	42120 - Planted Jack Pine	Poletimber Well	66	51-80	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Final harvest and replant to red pine. Retention for these stands will be placed in the retention pockets designated in stands 82,88, and 92. <u>Specs:</u></p> <p><u>Next Step Treatments:</u> Pesticide, Aerial - Site Prep; SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)</p> <p><u>Acceptable Regen:</u> Red pine.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										
93 42093093-Cut	26.3	42140 - Planted Mixed Pine	Sawtimber Medium	64	51-80	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Final harvest and replant to red pine. Retention for these stands will be pockets designated in stands 82,88, and 92. <u>Specs:</u></p> <p><u>Next Step Treatments:</u> Pesticide, Aerial - Site Prep; SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)</p> <p><u>Acceptable Regen:</u> Red pine</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										
94 42093094-Cut	11.4	42110 - Planted Red Pine	Sawtimber Medium	64	51-80	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Final harvest and replant to red pine. Retention for these stands will be pockets designated in stands 82,88, and 92. <u>Specs:</u></p> <p><u>Next Step Treatments:</u> Pesticide, Aerial - Site Prep; SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)</p> <p><u>Acceptable Regen:</u> Red pine</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
103 42093103-Monitor	382.5	4311 - Pine, Aspen Mix	Sapling Well	6	Immature	Monitoring	Artificial Regen(3yr)	42120 - Planted Jack Pine	Even-Aged	No
<p><u>Prescription</u> Take a look at the aspen over topping the jack pine to determine if a release is needed.</p> <p><u>Specs:</u> 1/11/21 - JAT - Possibly spray to release jack pine, depending on what is found with 2021 regen survey. Spray acreage would be up to 150 acres between stand 18 and 103.</p> <p><u>Next Step</u> Monitoring, Artificial Regen(3yr); Pesticide, Aerial - Release</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> jack pine</p> <p><u>Regen:</u></p> <p><u>Other</u> Percent to Treat = 100%</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>										
404 42093404-Cut	2.2	42290 - Natural Mixed Pine	Sawtimber Medium	46	1-50	Harvest	Clearcut	42110 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> No retention due to small acreage. Final harvest and replant to red pine.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Pesticide, Aerial - Site Prep; SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Red pine.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										

Total Treatment Acreage Proposed: 1364.6

Report 4 – Site Conditions

Newberry Mgt. Unit
Jennifer Burnham : Examiner

Compartment: 93
Year of Entry: 2022



Availability for Management

Total Acres	Acres Available	Acres Avail		Acres Not Available		Dominant Site Conditions							
		With Condition				2B	2I	5B	5C	2F	3J	5E	
725	607	87		32	Aspen	13	58		15	29			2
2	2	0		0	Bog								
532	529	0		2	Jack Pine								2
29	29	0		0	Marsh								
58	41	16		0	Mixed Upland Deciduous				16				
282	212	66		4	Natural Mixed Pines		26	40					4
25	25	0		0	Northern Hardwood								
77	77	0		0	Planted Mixed Pines								
271	264	0		6	Red Pine								6
123	84	0		39	Upland Conifers							39	
740	740	0		0	Upland Mixed Forest								
10	10	0		0	Urban								
5	5	0		0	Water								
216	106	58		53	White Pine		12		46			53	
3,096	2,733	227		136	Total Forested Acres	13	96	40	78	29		92	15
	88%	7%		4%	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	Available	5B: Maintain for regeneration purposes	41	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
2	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	5	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Newberry Mgt. Unit
Jennifer Burnham : Examiner

Compartment: 93
Year of Entry: 2022



3	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	16	5D: Unproductive Forest Land	Unspecified	Unspecified	Unspecified
Comments:							
4	Available	2I: Survey needed	58	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	5E: Long-Term Retention	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	26	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	20	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Newberry Mgt. Unit
Jennifer Burnham : Examiner

Compartment: 93
Year of Entry: 2022



9	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
10	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	16	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
13	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Retention area left in this area to help with aerial spraying.							
14	Available	2I: Survey needed	38	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
15	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
16	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Retention for strip cuts.							

Report 4 – Site Conditions

Newberry Mgt. Unit
Jennifer Burnham : Examiner

Compartment: 93
Year of Entry: 2022



17	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Retention for strip cuts.							
18	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
19	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
35	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	32	2F: Too steep	3D: Recreational / Scenic values	Unspecified	Unspecified
Comments:							
39	Available	2B: Unknown if access through adjacent landowner(s) is possible	13	2I: Survey needed	Unspecified	Unspecified	Unspecified
Comments:							
54	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	39	2F: Too steep	3D: Recreational / Scenic values	Unspecified	Unspecified
Comments:							
71	Unavailable	2F: Too steep	10	3G: Other Influence zones - See comments	3J: Water quality / BMPs (stream, river, or lake)	3D: Recreational / Scenic values	Unspecified
Comments:							

Report 4 – Site Conditions

Newberry Mgt. Unit
Jennifer Burnham : Examiner

Compartment: 93
Year of Entry: 2022



73	Unavailable	2F: Too steep	20	3G: Other Influence zones - See comments	5E: Long-Term Retention	Unspecified	Unspecified
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Comments:

5E is for stands 50 and 55.

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
Comments				



Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

* This is a list of SCA's for this compartment along with a 1/4 mile buffer surrounding the compartment. Refer to the Special Conservation Area Map for locations of the below listed Conservation Areas.

ERA = Ecological Reference Area
 HCVA = High Conservation Value Area
 SCA = Special Conservation Area

Conservation Area	Type	Description
SCA	Cold Water Lake	A coldwater lake has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species to persist from year to year. Suitable conditions for coldwater fishes may occur in Michigan lakes if they are relatively deep, have substantial groundwater inflows, or are located in colder (northern) areas of the state. Such lakes are established by Director's action and designated as trout resources by Fisheries Order 200.
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in which the terrestrial ecosystem influences the aquatic ecosystem and vice-versa. Because of the unique conditions adjacent to lakes, streams and open water wetlands, riparian areas harbor a high diversity of plants and wildlife. Riparian communities are ecologically and socially significant in their effects on water quality and quantity, as well as aesthetics, habitat, bank stability, timber production, and their contribution to overall biodiversity.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																													
1	4133 - Aspen, Mixed Pine	Poletimber Well	6.2	37	1-50	N/A	OPIC - FMD: Aspen is about 30 - 50' tall and decent quality, just coming into pole size. White pine and red maple present throughout, pole and sap sized. Sawlog sized Red Pine scattered throughout.																																													
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2	42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	19.2	66	51-80	N/A	OPIC - FMD: White pine seems to be regenerating well. Also some aspen regeneration present. White pine looks to be taking site over. Jack pine in the south end of stand. 35=32,31.																																													
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3	500 - Water	Nonstocked	4.0			No	OPIC - FMD: Moose Lakes																																													
4	4136 - Aspen, Mixed Conifer	Poletimber Well	5.4	37	51-80	N/A	OPIC - FMD: Scattered red maple/white pine/spruce in overstory. Aspen is 15-20' tall and poor quality. White pine scattered throughout, thick and thin, mostly wolfy. Openings scattered throughout stand. Moose Lake is just to the east of the stand. There was a small timber sale in here in 1984.																																													
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5	42200 - Natural White Pine	Sawtimber Medium	15.8	66	1-50	N/A	Slope and then wet soil to the ponds. OPIC - FMD: Small band of tamarack/spruce/white pine around stand. Ground cover is leatherleaf/labrador tea/sphagnum.																																													
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6	4133 - Aspen, Mixed Pine	Poletimber Well	58.8	29	Immature	N/A	more trees moving into poles. fair quality OPIC - FMD: Scattered red maple, aspen & white pine in overstory. Stand was cut in early 90's - sale #008-92. Bracken fern/grass ground cover. Jack pine regeneration is present also. Aspen is about 10-20' tall. Aspen is poor quality in the southern 2/3 of stand, slightly better in the north 1/3.																																													
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																	
7	4130 - Aspen	Sapling Poor	41.1	6	Immature	N/A	Jack pine planted over topped by aspen, red maple, cherry and some larger canopy trees red pine and white pine, and aspen present.																																	
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Jack Pine	High	< 5 feet	Sapling																																					
8	500 - Water	Nonstocked	1.0			No	OPIC - FMD: Moose Lakes																																	
9	4130 - Aspen	Poletimber Well	83.0	29	1-50	N/A	Starting to move more into a pole stand.																																	
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10	6225 - Bog	Nonstocked	2.4			No	OPIC - FMD: Leatherleaf / Labordor Tea / Bog Rosemary etc. present. Spongy ground.																																	
11	4112 - Maple, Beech, Cherry Association	Poletimber Well	4.4	38	1-50	N/A	Trace amounts of conifer.																																	
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Canopy Species	% Cover	Size Class	DBH	Age																																				
Red Maple	75	Pole/Sapling	6	38																																				
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12	4133 - Aspen, Mixed Pine	Poletimber Well	35.8	38	1-50	N/A	Decent stand with scattered pulp/sap beech and large scattered spruce.																																	
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																							
13	4133 - Aspen, Mixed Pine	Poletimber Well	18.1	29	Immature	N/A	Aspen has not really progressed since last inventory.																																																							
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White Pine	10	Log/Pole	10																																																											
Balsam Fir	10	Pole/Sapling	6																																																											
Red Maple	10	Pole/Sapling	6																																																											
14	4311 - Pine, Aspen Mix	Poletimber Well	217.6	31	Immature	N/A	Mainly healthy with some ice damage from 2020 winter. There is a mix of other species present. Young stand with 1 stick average.																																																							
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15	42220 - Natural Jack Pine	Poletimber Medium	2.9	73	1-50	N/A	Jack pine filing in with various age and size class. Some ice damage from storm in 2020.																																																							
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16	42260 - Natural Pine, Mixed Deciduous	Poletimber Medium	67.9	84	51-80	N/A	Species are declining.																																																							
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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18	4130 - Aspen	Sapling Poor	262.8	6	Immature	N/A	JP looks good, averaging 2' high. Once it's taller stand will easily be a J3. Planted jack pine overtopped with aspen, rm, and snags reducing sun to the JP regen.
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Canopy Species	% Cover	Size Class	DBH	Age
Bigtooth Aspen	60	Sapling	1	6
Quaking Aspen	15	Sapling	1	
Red Maple	10	Sapling	1	
Red Pine	2	Log	10	
Paper Birch	2	Pole	7	
Red Maple	11	Pole	7	

Sub-Canopy Species	Density	Avg. Height	Size
Jack Pine	Full	< 5 feet	Sapling

Check in reinventory and hope the jack pine becomes the dominant species.

2018: 590 TPA JP regen count 6/2018.

OPIC - FMD: Stand is a mix of jack pine, red pine and aspen. Area was once planted to red pine and was essentially a failure, jack pine filled in the open areas. Some larger diameter RP present of natural origin. Aspen in stand is of poor quality. Jack pine in stand has been hit hard by bud worm a few years ago and mortality/damage is now evident. Approx 1/3 of the jack pine in the stand is impacted. Treat stand to harvest the remaining live trees, plant back to jack pine. Alternate MO of RP/WP, aspen or oak would be acceptable.
2016: Sale complete. 42-006-12-01, North Danaher Pine. TCR 08/20/2015. Trenching completed in fall of 2015. Hand planted to JP 5/17/16. FTP 42-798.
Regen check summer 2017: 359 Tress/acre.

19	42200 - Natural White Pine	Sawtimber Well	19.9	99	81-110	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age
White Pine	65	Log/Pole	12	99
Jack Pine	5	Pole	8	
Red Maple	5	Pole/Sapling	7	
Red Pine	20	Log/Pole	10	
Quaking Aspen	5	Pole	7	39

Sub-Canopy Species	Density	Avg. Height	Size
White Pine	Medium	Variable	Sapling
Quaking Aspen	Low	Variable	Sapling
Red Maple	Low	Variable	Sapling

20	42220 - Natural Jack Pine	Poletimber Well	9.4	48	81-110	N/A	Jack pine is filling in open areas. Averages 4 sticks and fairly healthy. Red pine is large and some limby.
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Canopy Species	% Cover	Size Class	DBH	Age
Jack Pine	67	Pole	7	48
Red Pine	30	Log/Pole	12	63
White Pine	1	Log	14	
Red Maple	1	Pole/Sapling	5	
Quaking Aspen	1	Pole	7	

OPIC - FMD: Stand consists of small aspen seeding in around an opening. Aspen is of poor quality.

21	42220 - Natural Jack Pine	Sapling Well	54.7	11	Immature	N/A	There is some ice damage to the jack pine from 2020 ice storm.
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Canopy Species	% Cover	Size Class	DBH	Age
Jack Pine	60	Sapling	3	11
White Pine	15	Log/Pole	12	
Quaking Aspen	10	Sapling	3	
Paper Birch	10	Sapling	3	
Red Maple	5	Sapling	3	

OPIC - FMD: stand harvested as Danaher Plains Pine (003-02-01). Completed 6/10/03. FTP42-559: scarification completed 7/21/2003. Regeneration check 5/06 = 1,661 t/ac. *** 9/2/10 OI Comments - Stand has regenerated to jack pine and aspen, jack pine is 1-5' tall and aspen is 3-15' tall. Regeneration is thick for the most part. Cherry and red maple regen as well. Overstory of WP and RP scattered throughout stand. 35=30,31.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																													
22	429 - Mixed Upland Conifers	Poletimber Well	84.0	29	Immature	N/A	Jack pine is moving into pole class. Aspen and maple are of poorer quality. There are still some open areas in the stand. Stand was harvested under 42-002-90, treatment completed in 1992. OPIC - FMD: Aspen regeneration is of poor quality. Jack pine regeneration is mixed in along with white pine. More WP regen on the north end, most of it is bushy. Bracken fern/blueberry/rough fescue ground cover.																																													
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23	42290 - Natural Mixed Pine	Sawtimber Well	40.5	101	1-50	N/A	OPIC - FMD: Stand contains some nice sawlog white and red pine. Stand was managed with shelterwood as Danaher Plains Pine (003-02-01). Completed 6/10/03. Stand now has aspen and red maple seedling/saplings in understory with some WP regen.																																													
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24	42200 - Natural White Pine	Sawtimber Well	11.9	96	51-80	N/A																																														
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25	42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	25.6	69	81-110	N/A	Species are in decline. 2010, OPIC - FMD: White pine sawlog scattered throughout stand along with aspen, birch, jack pine. White pine is regenerating nicely. The aspen in stand is of poor quality. White pine is taking stand over. Some small openings scattered throughout along with pockets of jack pine. Some of the JP is dying out.																																													
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26	42110 - Planted Red Pine	Sawtimber Well	52.5	62	81-110	N/A	Pine tops are poor and jack pine has declined. 2010, OPIC - FMD: Stand is variable with a variety of age and sized. Stand is mostly a mix of red pine, white pine & jack pine with poor quality aspen. There is some large WP/RP throughout as well as evidence of planted red pine. Stand was planted in 1959 with red pine and some failure occurred. White pine is regenerating in stand. Some of the JP in stand was killed due to JP budworm outbreak since the last inventory.																																													
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27	42201 - Natural White Pine, Mixed Deciduous	Sawtimber Well	25.9	99	81-110	N/A	OPIC - FMD: Some large white pine in this stand, some with very impressive size. Some of the trees are showing signs of decline.																																													
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28	42110 - Planted Red Pine	Sawtimber Well	35.4	62	51-80	N/A	Appears to be old 10 acre strips similar to that in the south section. 2010, OPIC - FMD: Stand was planted in 1959 which has essentially failed. Stocking is low. Poor quality aspen understory. White pine is regenerating. Some white pine and jack pine present in overstory. Jack pine has some damage/mortality to recent budworm outbreak.																																													
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29	42140 - Planted Mixed Pine	Sawtimber Well	51.2	62	81-110	N/A	Aspen and jack pine are dying out. Red pine is fair quality and will grow out of good diameter class before next inventory. 2010, OPIC - FMD: Stand is a mix of species/size classes and ages. Area was planted in 1959 to red pine which is essentially a failure. There are some decent clumps of original planted RP and WP scattered in stand. There is jack pine of various ages some of which has been impacted by recent budworm outbreak. The white pine ranges from saplings to sawlog size. The sawtimber size is scattered throughout. White pine is regenerating nicely and taking site over. Aspen is poor quality. Portions of this stand were cut in 1983.																																													
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30	42110 - Planted Red Pine	Sawtimber Well	28.7	62	81-110	N/A																																														
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32	42220 - Natural Jack Pine	Poletimber Medium	5.5	73	1-50	N/A	Jack pine filing in with various age and size class. Some ice damage from storm in 2020. There has been some random cutting of single trees in the stand.																																													
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34	42200 - Natural White Pine	Sawtimber Well	13.1	96	51-80	N/A	This stand had a shelterwood treatment in 2004. Regeneration is not coming in well except for white pine due to shading from the high residual left. OPIC - FMD: Stand harvested as "421 Red Pine" (004-02-01). Completed 11/18/04. White pine, aspen and maple stump sprouts in understory.																																				
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35	42200 - Natural White Pine	Sawtimber Well	32.0	99	111-140	N/A	2010, OPIC - FMD: Stand falls on slope leading down to Tahquamenon River. Very steep and inoperable in most places.																																				
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36	42290 - Natural Mixed Pine	Sawtimber Well	42.1	62	51-80	N/A	Species holding. 2010, OPIC - FMD: Mixed pine stand. Jack pine, mostly limby mixed with red and white pine. Sawlog sized WP/RP on the west side of stand. Poor quality aspen throughout. Jack pine in stand was impacted by recent budworm outbreak, some mortality evident.																																				
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37	122 - Road/Parking Lot	Nonstocked	9.1			No	OPIC - FMD: County Road 421 and it's R.O.W.																																				
39	4133 - Aspen, Mixed Pine	Poletimber Well	12.9	83	51-80	N/A	PVT was harvested and there is a good skid road that goes to the State land. OPIC - FMD: Aspen mixed with pine, mostly white pine. Stand would be difficult to treat due to its location. It is in the Tahquamenon River influence zone. In addition it has no road access other than building one across private land. An alternate MO of mixed RP/WP, red maple, birch, jack pine or oak would be acceptable.																																				
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43	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	9.3	83	81-110	N/A	OPIC - FMD: Poor quality maple, some clumpy, some single stem. White pine mixed throughout. Maple, b.fir, white pine in the understory. Some aspen present in stand.																																				
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46	42290 - Natural Mixed Pine	Poletimber Well	22.6	84	51-80	N/A	OPIC - FMD: Stand is a mix of species and age classes. Some old white pine mixed with some young. White pine is regenerating.																																																						
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47	42200 - Natural White Pine	Sawtimber Well	41.7	84	51-80	N/A	DBH is not as large as found in stand 45.																																																						
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48	4311 - Pine, Aspen Mix	Poletimber Medium	43.8	31	1-50	N/A	Large depression with some ice damage from 2020. OPIC - FMD: Ground cover is grass, blueberry, bracken fern. Aspen is of poor quality. Jack pine is seeding in naturally, some pole sized and wolfy.																																																						
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49	42220 - Natural Jack Pine	Poletimber Well	6.2	63	51-80	N/A	Stand is in decline.																																																						
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50	4130 - Aspen	Poletimber Medium	60.5	68	51-80	N/A	Open grown aspen, paper birch is 6 to 8 dbh with not bad quality. Scattered white pine through stand. OPIC - FMD: Aspen in stand is of poor quality, variable in size and density, BA ranges from 20-70. The aspen is submerchantable to non-merchantable in many places. Paper birch and red maple present. Stand may eventually convert to WP.																																																						
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51	42260 - Natural Pine, Mixed Deciduous	Poletimber Medium	21.2	63	1-50	N/A	South area is 2 stick jack pine. Large frost pocket in N surrounded by strip of MC. OPIC - FMD: Aspen is of poor quality and will probably never reach merchantability. Jack pine, white pine and red pine present, most are limby. Cherry present, brushy.																																													
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52	42290 - Natural Mixed Pine	Sawtimber Well	22.1	68	51-80	N/A	Multiple age jack pine and aspen with open grown pine. South end not as much jack pine or other species besides white pine. Ice damage from the 2020 storm present. OPIC - FMD: Stand is a mix of aspen, red pine, white pine, jack pine with an aspen, white pine, jack pine understory. Aspen is of poor quality. Cherry present, brushy. Stand may eventually convert to WP.																																													
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53	4319 - Mixed Upland Forest	Poletimber Medium	13.5	63	1-50	N/A	OPIC - FMD: Stand is sparse, poor quality aspen mixed with white pine, cherry, spruce and jack pine. Aspen in stand may never reach merchantability.																																													
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54	429 - Mixed Upland Conifers	Sawtimber Well	38.9	94	81-110	N/A	OPIC - FMD: Stand falls on slope leading down to Tahquamenon River. Very steep and inoperable in most places.																																													
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55	4133 - Aspen, Mixed Pine	Sawtimber Medium	9.6	68	51-80	N/A	Fair quality stand. 2010, OPIC - FMD: Aspen in stand is of poor quality, variable in size and density, BA ranges from 20-70. The aspen is no- merchantable in many places. Paper birch, red maple and cherry present, also poor quality. Stand may eventually convert to WP.																																													
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																									
56	42201 - Natural White Pine, Mixed Deciduous	Poletimber Medium	12.1	74	51-80	N/A	OPIC - FMD: Aspen in stand is of poor quality for the most part. White pine is taking site over with a lot of regeneration and will likely convert to white pine.																									
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58	4133 - Aspen, Mixed Pine	Poletimber Medium	15.5	59	1-50	N/A	OPIC - FMD: Area is a natural frost pocket that falls within a valley. Aspen is of poor quality and probably will never reach merchantability.																									
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59	42201 - Natural White Pine, Mixed Deciduous	Sawtimber Poor	18.5	94	1-50	N/A	2010, OPIC - FMD: Stand was an old stump field that has begun to fill in with trees. Some areas are somewhat open yet but others are becoming stocked with trees. Mostly bushy white pine and cherry. Some jack pine seedling present along the poor quality aspen. Ground cover is grass with some bracken fern.																									
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60	6239 - Mixed Emergent Wetland	Nonstocked	28.8			No																										
62	42201 - Natural White Pine, Mixed Deciduous	Sawtimber Well	8.8	64	51-80	N/A	2010, OPIC - FMD: Stand is a mix of white pine, aspen, maple, balsam fir. Some mature aspen present in stand, some is decent, some is low quality. Stand has a mix of ages and sizes of white pine. Hazel present in understory also. Stand buffers a marshy area to the north.																									
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63	4112 - Maple, Beech, Cherry Association	Sawtimber Well	4.8	94	81-110	N/A	2010, OPIC - FMD: Small maple stand, not great quality but decent. Some trees are overmature and defective.																									
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																						
64	4133 - Aspen, Mixed Pine	Poletimber Well	16.1	42	51-80	N/A	OPIC - FMD: Stand was cut in 1979. and is now moving into a pole size class. Mix of aspen, red maple & jack pine in overstory. Aspen, maple, white pine, cherry and hazel in understorey.																																																						
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65	4199 - Other Mixed Upland Deciduous	Poletimber Well	7.1	94	51-80	N/A	OPIC - FMD: Stand was shelterwooded in 1979 - (stump diametered). Aspen is regenerating nicely in understorey along with maple, aspen is approx. 3"diameter and 20-40' tall. Pole sized maple and a few larger white pine in overstorey. Some beech in stand, it has BBD and is dying or dead.																																																						
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66	42200 - Natural White Pine	Sawtimber Well	16.9	62	51-80	N/A	2010, OPIC - FMD: Stand is a mixed bag. White pine, maple, aspen, jack pine, balsam, spruce and cherry. There is scattered upland brush mixed throughout the stand. Most trees are limby. White pine looks to be taking site over- seems to be prevelant in understorey. Hazel is also present.																																																						
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67	4133 - Aspen, Mixed Pine	Poletimber Well	21.2	42	51-80	N/A	OPIC - FMD: Openings scattered throughout. Some of aspen is poor quality. White pine is mixed throughout stand. Aspen is 5-8" DBH with some about 3 sticks tall. Some submerchantable/poor quality aspen as well. B.fir, spruce also present in stand.																																																						
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68	4112 - Maple, Beech, Cherry Association	Poletimber Well	16.0	42	51-80	N/A	OPIC - FMD: Stand was shelterwooded in 1979. Abundant maple and balsam fir regeneration. Beech has scale and dying or dead already.																																																						
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69	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	41.4	42	51-80	N/A	OPIC - FMD: Stand was shelterwooded in 1979 - (stump diametered) including maple, pine, hemlock, spruce, aspen, and fir. Stand is a mix of maple, white pine, aspen, beech, cherry and spruce. Aspen is regenerating nicely in understory along with maple, aspen is approx. 3"diameter and 20-40' tall. Pole sized maple and a few larger white pine in overstory. Some beech in stand, it has BBD and is dying or dead.																																			
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70	4133 - Aspen, Mixed Pine	Poletimber Medium	40.1	29	1-50	N/A	Starting to get poles and basal area. OPIC - FMD: Stand is sale #035-92. Aspen is about 4" DBH but ranges from 1-5" and is 15-30' tall. Aspen, white pine, cherry, maple regeneration present. Scattered maple, white pine and spruce overstory. Some balsam present.																																			
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71	4133 - Aspen, Mixed Pine	Poletimber Well	9.6	78	81-110	N/A	OPIC - FMD: Most of stand falls on a steep slope leading down to the Tahquamenon River.																																			
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72	42110 - Planted Red Pine	Sawtimber Poor	19.1	64	1-50	N/A	OPIC - FMD: Stand is a essentially a failed red pine plantation. The result is a few scattered red pine and bushy cherry trees. Some jack pine, red pine, white pine seeding in naturally. If surrounding jack pine plantations are treated, treat this stand as well and plant.																																			
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73	4133 - Aspen, Mixed Pine	Poletimber Well	19.8	78	51-80	N/A	OPIC - FMD: Most of stand falls on the steep slope and would be difficult to treat. Aspen is mature but not great quality. Stand falls in the influence zone of the Tahquamenon River.																																			
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74	42110 - Planted Red Pine	Poletimber Well	58.4	62	81-110	N/A	2010, OPIC - FMD: Stand has some suppressed red pine. Stand has a mix of aspen, jack pine and red pine. Some of the jack pine was impacted by a recent JP budworm outbreak, mortality evident. BA ranges from 50-150.																																				
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75	4311 - Pine, Aspen Mix	Sapling Well	68.4	6	1-50	N/A	Jack pine is still growing up under the aspen. There are pockets of over topping aspen about 10' tall. 06/12/18- JP TPA= 525, Residual basal area ranges from 10-20 BA. Large Aspen component within plantation. Stand harvested as sale #42-0005-12-01 (Clark Trail Pine). Completed 09/12/2012. Scarification yet to be completed as of 10/15/2012. Regeneration check needed for years after completion. 2017: Trenched in 2015. Hand planted to jack pine in May 2016. C42-797 Regen check summer 2017: 402 Trees/acre. Some pockets of significant aspen regeneration.																																				
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77	42220 - Natural Jack Pine	Poletimber Well	31.5	29	1-50	N/A	Just moving into poles with some ice damage from 2020 storm. OPIC - FMD: Stand was harvested in 1992 - sale #034-91 and was scarified in 1993. Jack Pine is coming in nicely. Currently 10-20' tall 1-4"DBH. Bracken fern/blueberry ground cover.																																				
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79	42210 - Natural Red Pine	Sawtimber Well	20.5	96	51-80	N/A	All pine is growing out of class. Regeneration is poor and not very dense, previous harvest did not open the canopy up enough for better results. OPIC - FMD: Stand harvested as "421 Red Pine" (004-02-01). Completed 11/18/04. Stand now has red maple stump strouts and aspen regen. White pine regen present as well. Regen is thick for the most part.																																				
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80	42111 - Planted Red Pine, Mixed Deciduous	Poletimber Medium	3.6	62	51-80	N/A	2010, OPIC - FMD: Stand has a mix of red pine, white pine, aspen and jack pine. Trees are limby and open grown filling in an opening.																																				
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81	42210 - Natural Red Pine	Sawtimber Well	15.5	64	81-110	N/A	2010, OPIC - FMD: Stand is a mixed bag of red pine and white pine. Sawlogs sized trees in both species. There is abundant white pine regeneration.																																				
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82	42121 - Planted Jack Pine, Mixed Deciduous	Poletimber Well	12.3	66	81-110	N/A	OPIC - FMD: Stand was planted in 1955. Stand has been impacted by recent JP budworm outbreak, some evidence of mortality. Could schedule now or wait another 10 years.																												
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83	42210 - Natural Red Pine	Sawtimber Medium	5.7	66	81-110	N/A	2010, OPIC - FMD: Stand has a mix of red pine, white pine, aspen & red maple. Thick & thin, young and old. Stand is moving towards being a WP stand.																												
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84	42120 - Planted Jack Pine	Sawtimber Well	8.7	66	51-80	N/A	2010, OPIC - FMD: Stand was planted in 1955. Stand has been impacted by recent JP budworm outbreak, some evidence of mortality. Could schedule now or wait another 10 years.																												
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85	42110 - Planted Red Pine	Sawtimber Well	2.1	64	81-110	N/A	2010, OPIC - FMD: Stand is a basically a failed red pine plantation that has gradually filled in with trees. Most of the red pine is limby. There is also white pine in here sawlog to sapling sized.																												
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86	42120 - Planted Jack Pine	Poletimber Well	39.5	66	51-80	N/A	OPIC - FMD: Stand was planted in 1955. Stand has been impacted by recent JP budworm outbreak, some evidence of individual tree mortality, some areas of heavy pocket mortality. Could schedule now or wait another 10 years.																												
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88	42110 - Planted Red Pine	Sawtimber Medium	17.7	64	51-80	N/A	2010, OPIC - FMD: Stand is essentially a failed red pine plantation. The result is a few scattered limby red pine with jack pine that have naturally seeded in. Poor quality aspen here also. If surrounding jack pine plantations are treated, treat this stand as well and plant.																												
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89	42120 - Planted Jack Pine	Poletimber Well	31.8	66	51-80	N/A	2010, OPIC - FMD: Stand was planted in 1955. Stand has been impacted by recent JP budworm outbreak, some evidence of individual tree mortality, some areas of heavy pocket mortality. Could schedule now or wait another 10 years.																																		
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90	42220 - Natural Jack Pine	Poletimber Well	19.2	29	1-50	N/A	Just moving into poles. Some ice damage from 2020 storm.																																		
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		<p>OPIC - FMD: Stand was harvested in 1992 - sale #034-91 and was scarified in 1993. Jack Pine is coming in nicely. Currently 10-20' tall 1-4"DBH. Bracken fern/blueberry ground cover.</p>																																							
91	42120 - Planted Jack Pine	Poletimber Well	2.4	66	51-80	N/A	2010, OPIC - FMD: Stand was planted in 1955. Stand has been impacted by recent JP budworm outbreak, some evidence of mortality. Could schedule now or wait another 10 years.																																		
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92	42120 - Planted Jack Pine	Poletimber Well	26.3	66	51-80	N/A																																			
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93	42140 - Planted Mixed Pine	Sawtimber Medium	26.3	64	51-80	N/A	OPIC - FMD: Stand is a essentially a failed red pine plantation. The result is a few scattered red pine and bushy cherry trees. Some jack pine, red pine, white pine seeding in naturally. If surrounding jack pine plantations are treated, treat this stand as well and plant.																																		
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94	42110 - Planted Red Pine	Sawtimber Medium	11.4	64	51-80	N/A	2010, OPIC - FMD: Stand is a essentially a failed red pine plantation. The result is a few scattered red pine and bushy cherry trees. Some jack pine, red pine, white pine seeding in naturally. If surrounding jack pine plantations are treated, treat this stand as well and plan.																																		
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98	42290 - Natural Mixed Pine	Poletimber Well	3.7	31	1-50	N/A	Acceptable stocking levels and almost to merchantable stems.																																		
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100	42220 - Natural Jack Pine	Poletimber Well	7.4	33	1-50	N/A	Starting to get some merchantable stems.																																											
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102	42290 - Natural Mixed Pine	Poletimber Well	14.5	33	Immature	N/A	This patch was left out. see notes from stand 98. Stand was harvested under TS# 42-002-84. OPIC - FMD: Jack pine regen is thick. It is about 15-30' tall, 3-6"DBH and some is just coming into pole sized class.																																											
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103	4311 - Pine, Aspen Mix	Sapling Well	383.8	6	Immature	N/A	Checked in fall, appears Aspen numbers have gone, JP stocking has gone up. Avg JP height is around 2' and when that increases stand can be moved over to fully stocked stand and J3. Planted jack pine, over topped by aspen. Heavy aspen with overstocked planted jack pine and volunteers. Stand should be ok in a few years when the jack pine gets a little taller it will go back to a jack pine stand. 06/13/18- Jackpine TPA is approximately 500. Red maple regeneration is also prominent within stand. Residual basal area ranges from 10-30 BA. OPIC - FMD: Area was planted in 1955 and is essentially a failure. Lower stocking values. Jack pine has been naturally seeding in and is bushy. Aspen is poor quality. Some jack pine mortality after recent JP budworm outbreak. Treat stand with adjacent jack pine stand and start over. Plant to jack pine after harvest. An alternate MO of mixed red pine, white pine, oak or aspen would be acceptable. 2016: Stand is a combination of previous stands 95, 96, 97, 99, 101 and 103. All harvested as sale 42-007-12-01, Danaher South. TCR 08/20/2015. Stand is currently trenched but not yet planted. Hand planted to JP 5/14/16. FTP 42-799. Regen check summer 2017: 314 Trees/acre Jack pine																																											
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104	42220 - Natural Jack Pine	Poletimber Well	76.7	48	111-140	N/A	There are some pockets of lower BA, over all high. Healthy with the occasional dead or dying JP. JP is averaging 5 sticks. Can hold on another rotation. Other spp mix verr poor quality. Occasional oak. Planted to RP first? replant to RP? OPIC - FMD: Stand was cut in 1978 - sale #026-78. Stand was planted prior to cut in 1974. It is now coming along nicely. Trees are moving from a sapling size into pole size, avg DBH is 4-9", 2-4 sticks tall. There are still some sapling sized trees. Ground cover is a mix of bracken fern/blueberry/grass. There is some JP budworm damage to stand from recent outbreak.																																											
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106	42220 - Natural Jack Pine	Sapling Well	169.2	28	Immature	N/A	Trees are around 25' tall, healthy. 1-4" dbh. OPIC - FMD: Stand was cut in 1992 - sale # 010-92. South 1/2 of the stand was harvested under 030-91-01. Area was scarified in 1993. Stand is regenerating nicely with plenty of stocking. Trees are now 10-15' tall, 1-4" DBH. Ground cover is bracken fern/grass.																																											
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107	122 - Road/Parking Lot	Nonstocked	0.7			No	OPIC - FMD: County Road 475 and it's R.O.W.																																								
108	42120 - Planted Jack Pine	Sapling Well	15.9	21	Immature	N/A	Around 20' tall, stand is healthy. OPIC - FMD: Stand was cut in late 1999 - sale #008-97. Stand was scarified and then planted to fill open areas. Stand is now fully stocked with JP 3-10' tall, 1"DBH.																																								
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401	4132 - Aspen, Jack Pine	Poletimber Medium	8.9	41	1-50	N/A	Opening filling in with a mix of species. Stand contains a frost pocket. OPIC - FMD: Scattered cherry trees in opening. Fringes of stand contain aspen and jack pine. Old "stump field". Some big old stumps in opening.																																								
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402	4311 - Pine, Aspen Mix	Poletimber Medium	7.3	41	1-50	N/A	Opening filling in with poor quality aspen. OPIC - FMD: Scattered cherry trees in opening. Fringes of stand contain aspen and jack pine. Old "stump field". Some big old stumps in opening.																																								
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403	42220 - Natural Jack Pine	Poletimber Poor	2.9	38	1-50	N/A	Area that has old furrows from previous planting that never took. Now seeding in and becoming J4.																																								
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404	42290 - Natural Mixed Pine	Sawtimber Medium	2.2	46	1-50	N/A	2010- OPIC - FMD: Grass, blueberry, rough fescue ground cover. Scattered jack pine/ red pine. Cherry present also, bushy. Opening is gradually filling in. Poor quality aspen present also.																																								
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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407	4311 - Pine, Aspen Mix	Poletimber Medium	5.7	46	1-50	N/A	OPIC - FMD: Scattered cherry present in opening along with poor quality aspen. Old white pine stumps are present in opening.
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Canopy Species	% Cover	Size Class	DBH	Age
Paper Birch	20	Pole	5	
Quaking Aspen	30	Pole	5	46
White Pine	40	Pole	8	46
Jack Pine	10	Pole	7	