



Compartment Review Presentation

Newberry Forest Management Unit

Compartment 42132

Entry Year 2020

Acreage: 3,471

County Luce

Management Area: Tahquamenon Basin Wetlands

Revision Date: 2018-08-17

Stand Examiner: Jennifer Burnham

Legal Description:

T45N R08W Sections 1-3,10-12

Identified Planning Goals:

Wildlife habitat along with timber management and recreation are the main uses of this area. The goal is to maintain and improve the forest health and diversity, while subsequently improving wildlife habitat through proper management. Treatments prescribed will help ensure the sustainability of the forest resource and continue to enhance the quality of the wildlife habitat. An increase in the level of timber management (aspen, spruce and northern hardwoods) will promote an array of both age class and structural diversity in the cover types.

Soil and topography:

The compartment is dominated by lowland soil types. Carbondale, Lupton and Tawas mucks along with Dawson, Greenwood and Loxley Peats dominate the landscape. These lowland soils support cover types of cedar, mixed swamp conifer, black spruce, lowland/swamp hardwoods and treed bogs. The southern portion of the compartment consists of a variety of silt loam soils (Rudyard, Pickford, Ontonagon, Millecoquins). Aspen and northern hardwoods are found on these soil types. The terrain throughout the compartment is level to slightly rolling.

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

The Toonerville Trolley is located just north of the compartment. The compartment contains only two areas of private that are located off M-28.

Unique Natural Features:

MNFI doesn't list any occurrences within the compartment. MNFI does list potential for eagle, osprey, great blue heron rookery, red-shouldered hawk, and northern goshawk. Potential for moose and wolf. Potential for incurvate emerald, red-disked alpine, freija fritillary, frigga fritillary, and ebony boghaunter in boggy areas. They also list potential for fir clubmoss. Potential for sweet coltsfoot, Wiegand's sedge, northern prostrate clubmoss, fir clubmoss, English sundew, round-leaved orchis, black crowberry, yellow pitcher plant, and paniced screwstem in treed bogs. Potential for climbing fumitory, goblin moonwort, large toothwort, ginseng, and showy orchis in mature hardwoods. Potential for calypso orchis, lapland buttercup, ram's head lady's slipper, round-leaved orchid and limestone oak fern in cedar swamps.

Archeological, Historical, and Cultural Features:

The Bureau of History does not list any historical features within the compartment.

Special Management Designations or Considerations:

Much of the compartment lies within the Sage River Deeryard and therefore as been designated as a Special Conservation Area (SCA). Being located within the boundaries of the deer yard, management decisions shall be dictated by the promotion and enhancement of the desired characteristics associated with the winter yarding habitat. Conifer canopies should remain undisturbed. Harvesting in these areas will likely take place during winter months.

Watershed and Fisheries Considerations:

Fisheries Values: None

Wildlife Habitat Considerations:

Compartment 132 lies in southwest Luce county and is in the Seney Sand Lake Plain ecological sub-subsection and lies in the Tahquamenon River Basin Wetlands Management Area. Featured species for this management area include white-tailed deer, black bear, snowshoe hare, and gray jay. The compartment lies within the Sage River – Hulbert Deer Wintering Complex which supports high numbers of deer during stressful winter periods. A mix of lowland conifer types, swamp and northern hardwoods, and lowland aspen and birch stands comprise most of the compartment.

Wildlife objectives for this compartment will be met by retaining the cover components of the stands to benefit wintering deer and moose and in general, sales will be harvested during winter to assist wintering cervids using the compartment.

Harvests will be staggered over 5 year periods to stretch out winter food resources being made available. Hardwood stands are likely to contain vernal pools which will be protected during harvest operations to preserve wetland wildlife habitat. White-tailed deer, moose, black bear, bobcat, gray wolf, coyote, fisher, marten, and snowshoe hare are notable wildlife species likely to utilize this compartment

Mineral Resource and Development Concerns and/or Restrictions

An active sand/gravel pit is located one mile to the east, but there appears to be perhaps just minor sand potential within the compartment. Bedrock is relatively shallow here (10-50 feet), and there may be some crushed stone potential. There is no known metallic mineral potential in this area, and there is no potential for economical production oil and gas in the UP. The state does not own all of the mineral rights beneath Section 3. Private mineral rights owners must be allowed reasonable access to the land should they choose to explore and/or develop the minerals.

Vehicle Access:

This compartment is located approximately 14 miles east of Newberry. Highway M-28 borders the compartment on the south and County Road 381 runs north through the center of the compartment, providing the only real vehicle access to the compartment. There are several abandoned/closed roads within the compartment from previous timber sale activity. Canadian National Railroad transects the NE corner of the compartment.

Survey Needs:

Several corners will need to be established and/or private lines confirmed for some of the treatments to occur. The center of sec's 10 and 11, the ¼ corner between sec's 10 & 11, W1/16 of Sec 11. The County Remonumentation project has been through this area.

Recreational Facilities and Opportunities:

There are no established recreational facilities within the compartment. Recreational opportunities would be primarily hunting as well as bird watching.

Fire Protection:

Large fire runs are not likely, because of the swamp conifer and hardwood types. Poor access with wheeled equipment will limit suppression abilities.

Additional Compartment Information:

The following reports from the Inventory are attached:

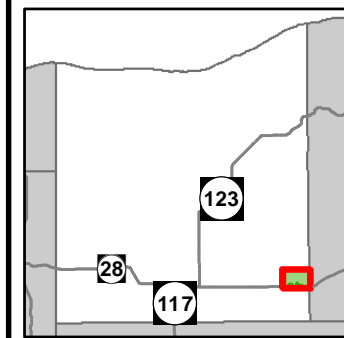
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

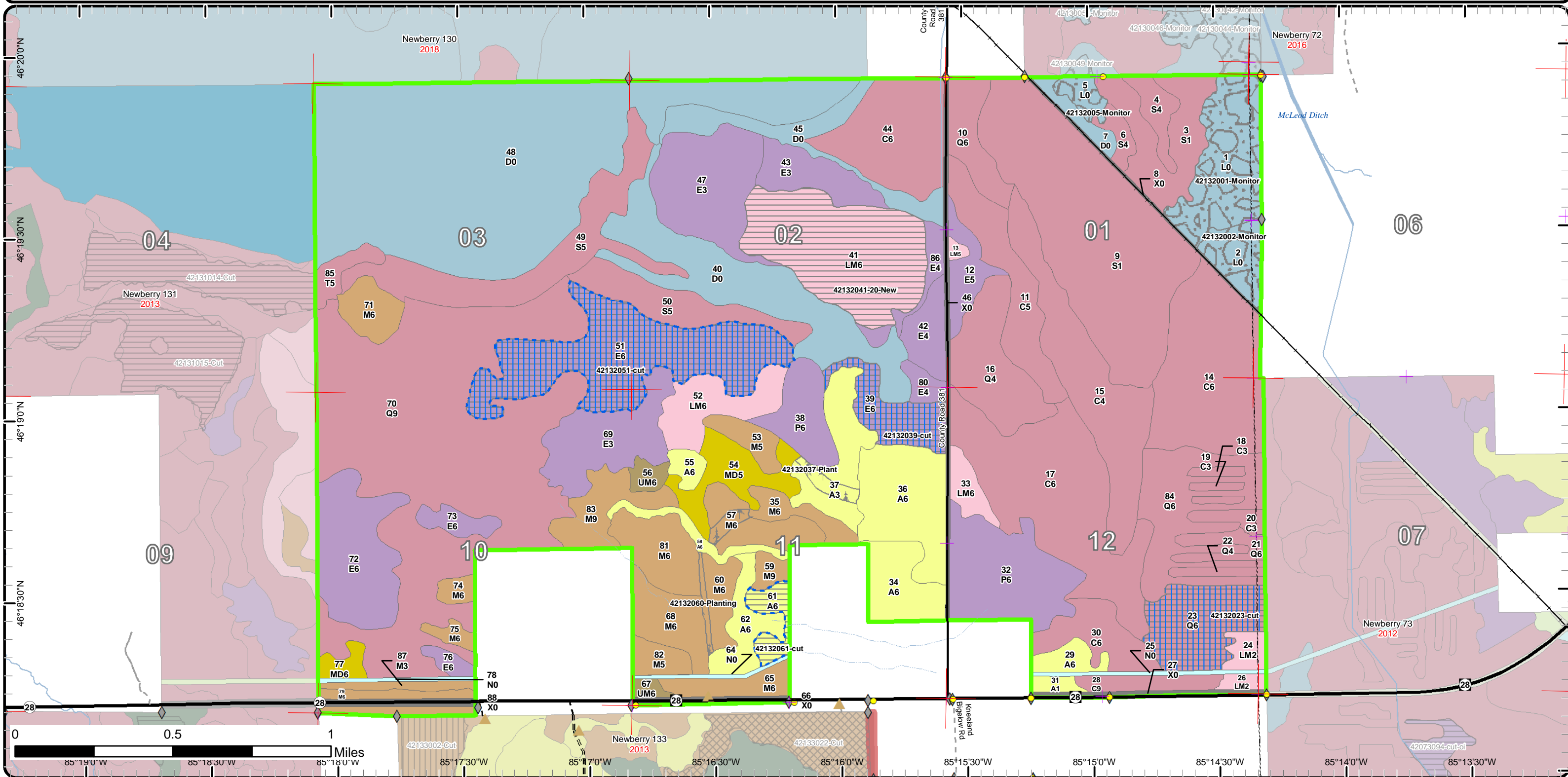
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 132
 T45N, R08W, Sec. 1-3, 10-12
 County: Luce
 Unit: Newberry
 Mgmt Area: Tahquamenon Basin
 Wetlands
 YOE: 2020
 Acres: 3,471 GIS Calculated
 Examiner: Jennifer Burnham
 Map Revised: 4/23/2019
 Map Phase: Post-Review

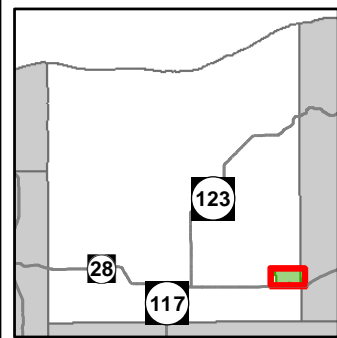


- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- ◆ Field Grade Corners
- Counties
- DNR - Forest Access Route
- Federal / State Highway
- Federal / State - Dirt / Gravel Road
- Private - Dirt / Gravel Road
- Active Railroads
- ▲ Berms
- Intermittent Stream
- Perennial River
- Lakes and Rivers All
- Compartment Boundary
- Treatments with Site Conditions
- Planting (tree species)
- Clearcut (w/Reserves)
- Seed Tree (w/Reserves)
- Regeneration Survey
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 122 - Roads/Parking Lot
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- Lakes

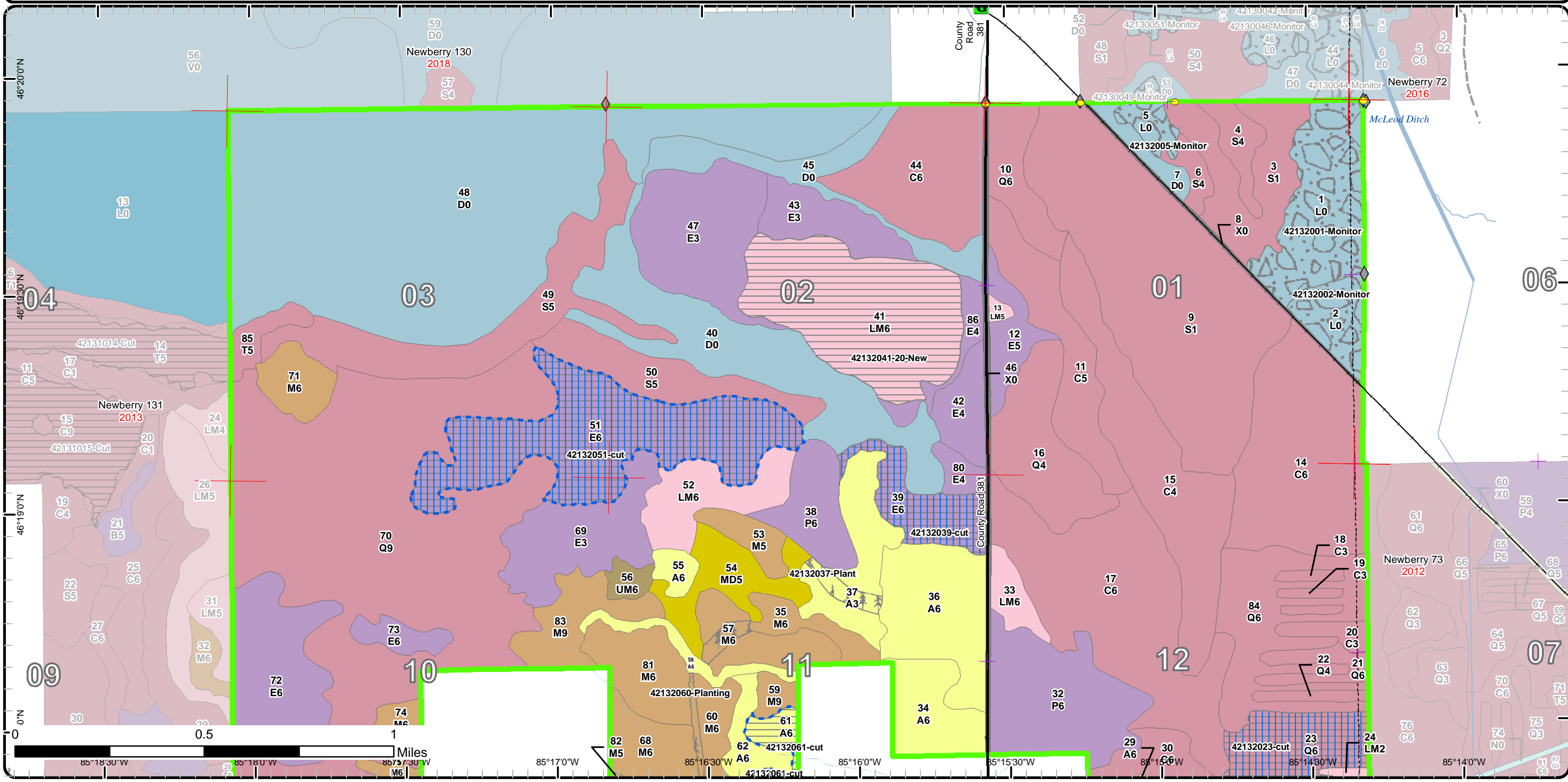


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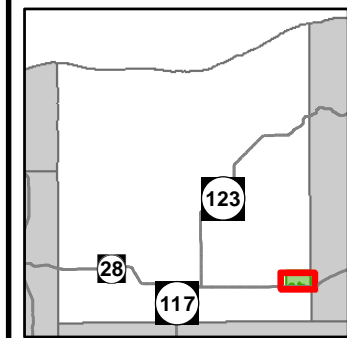


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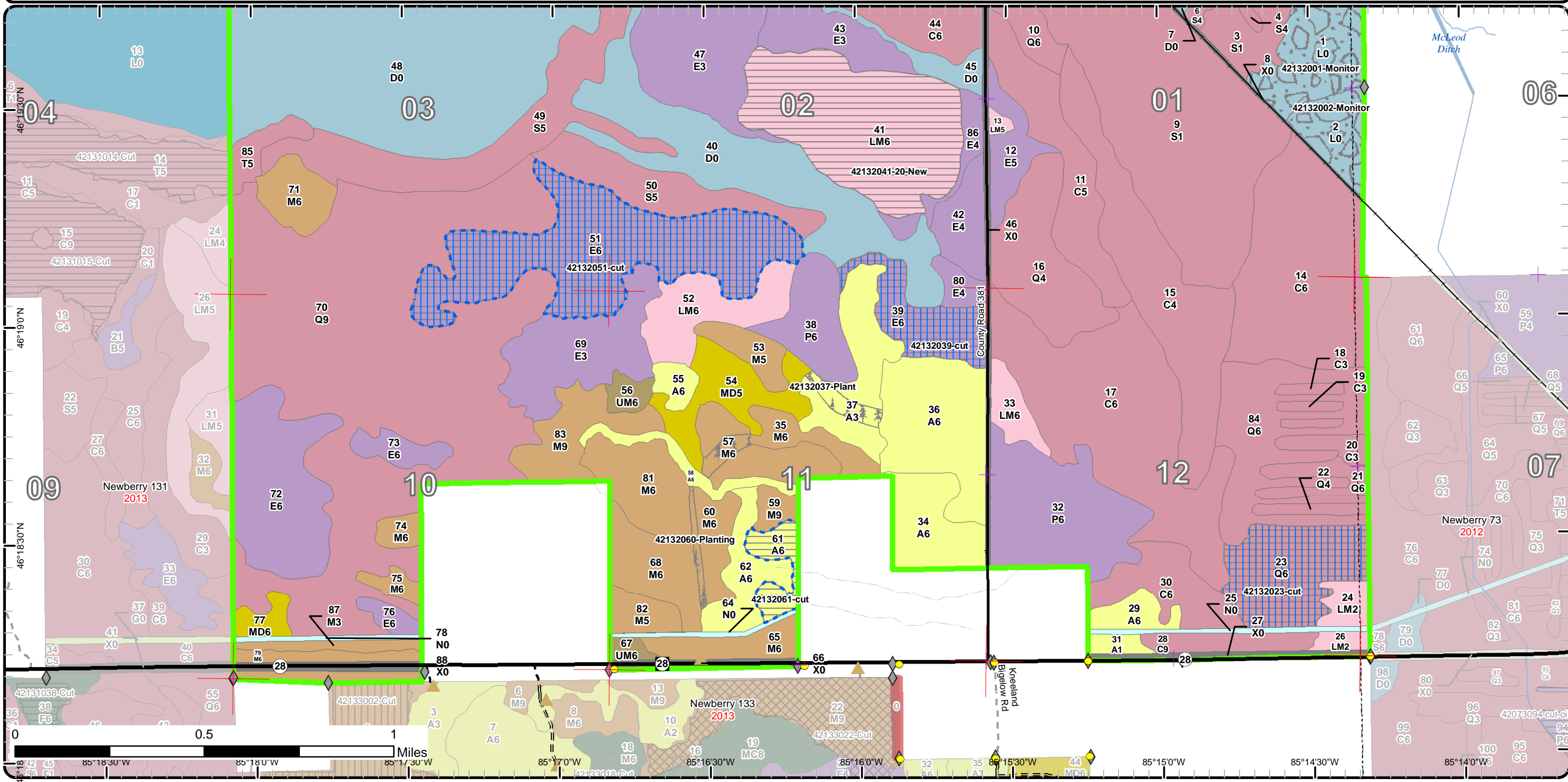


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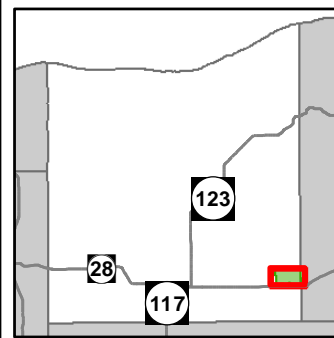


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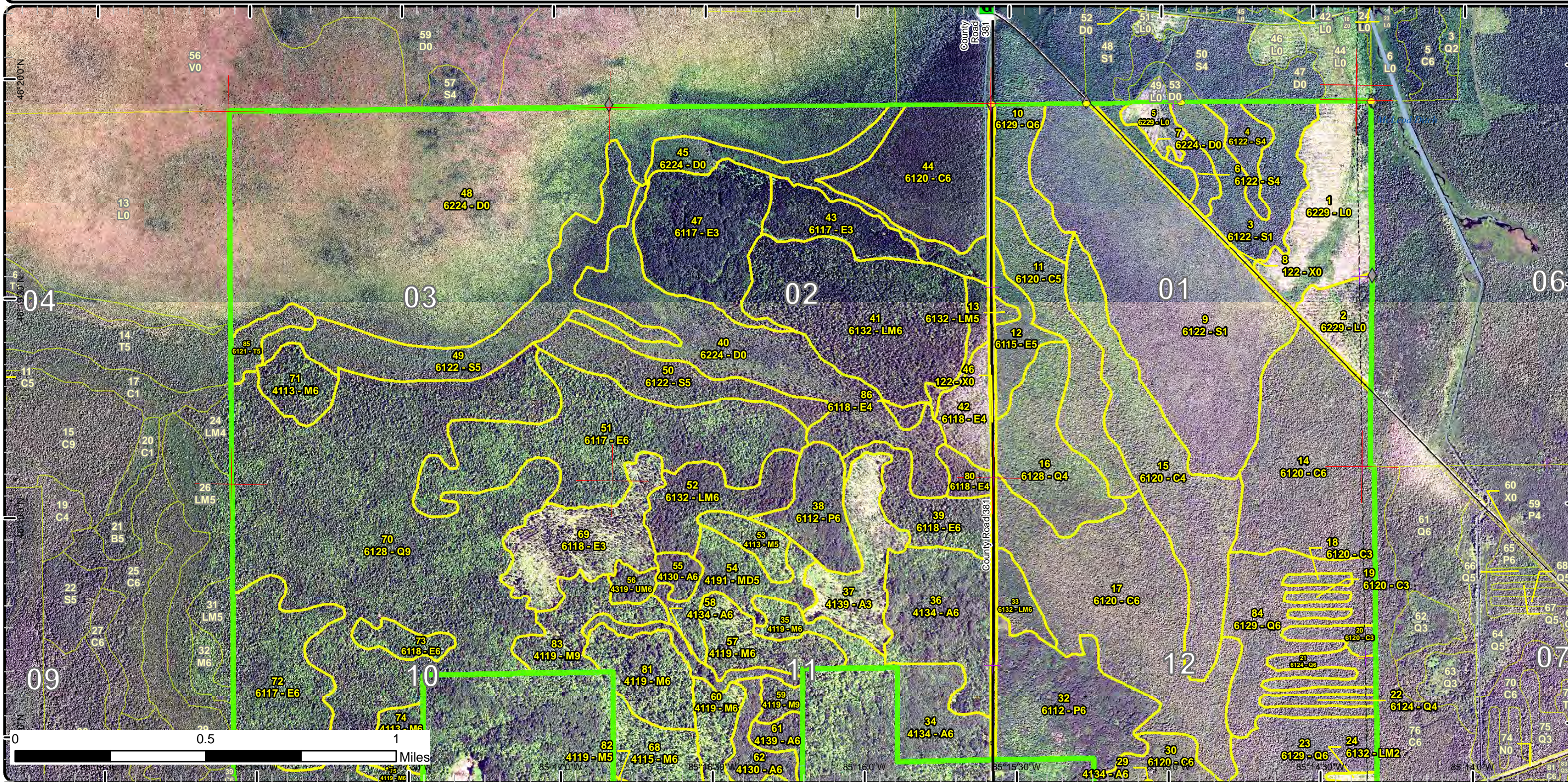


Stand Boundary Map

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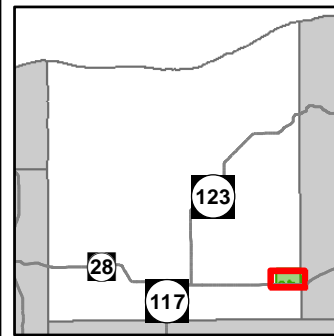


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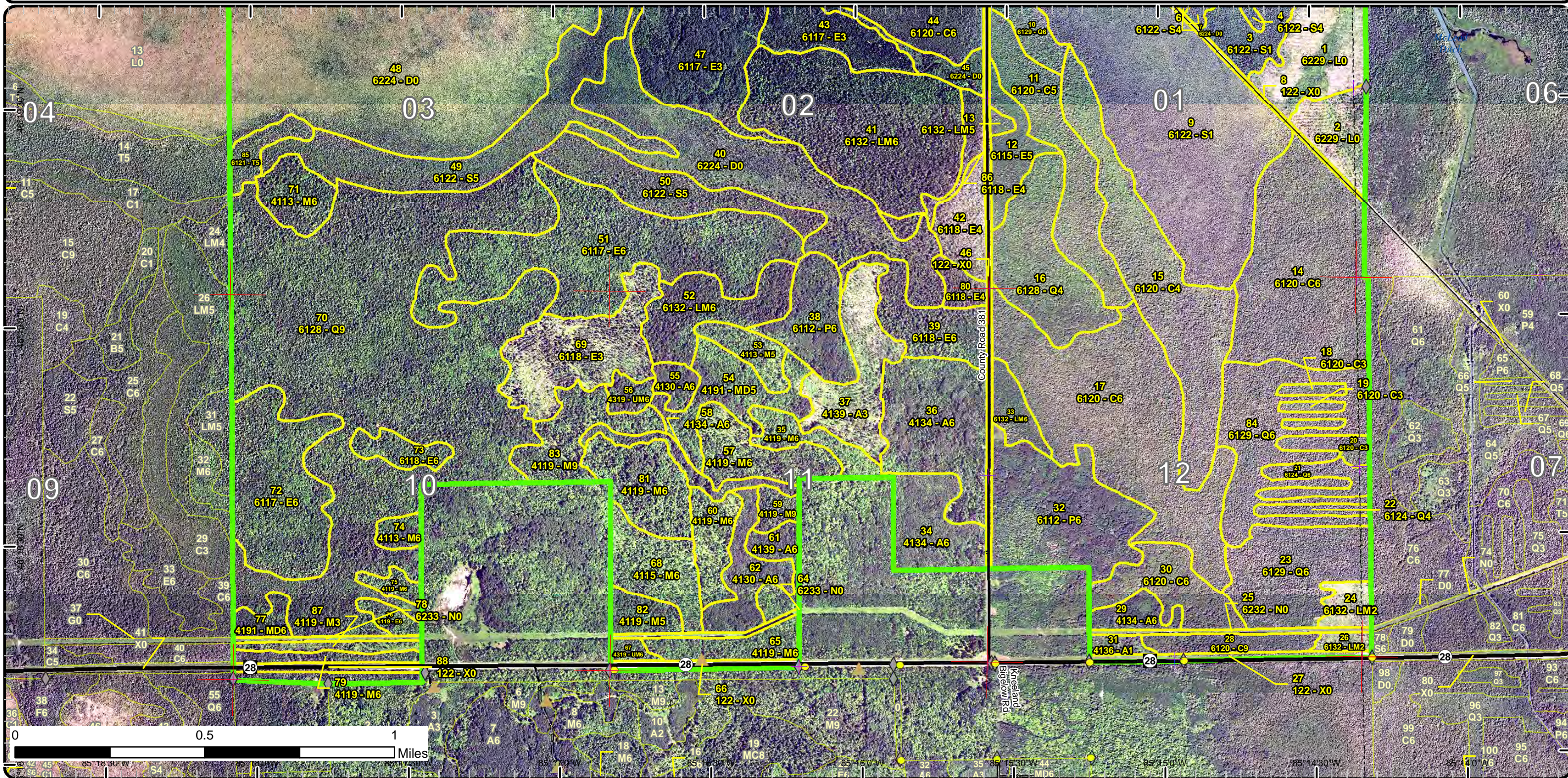


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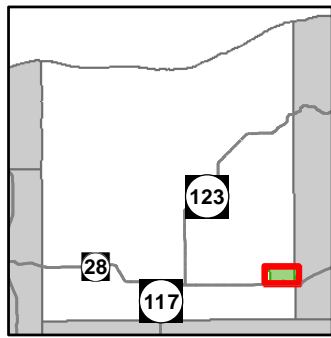


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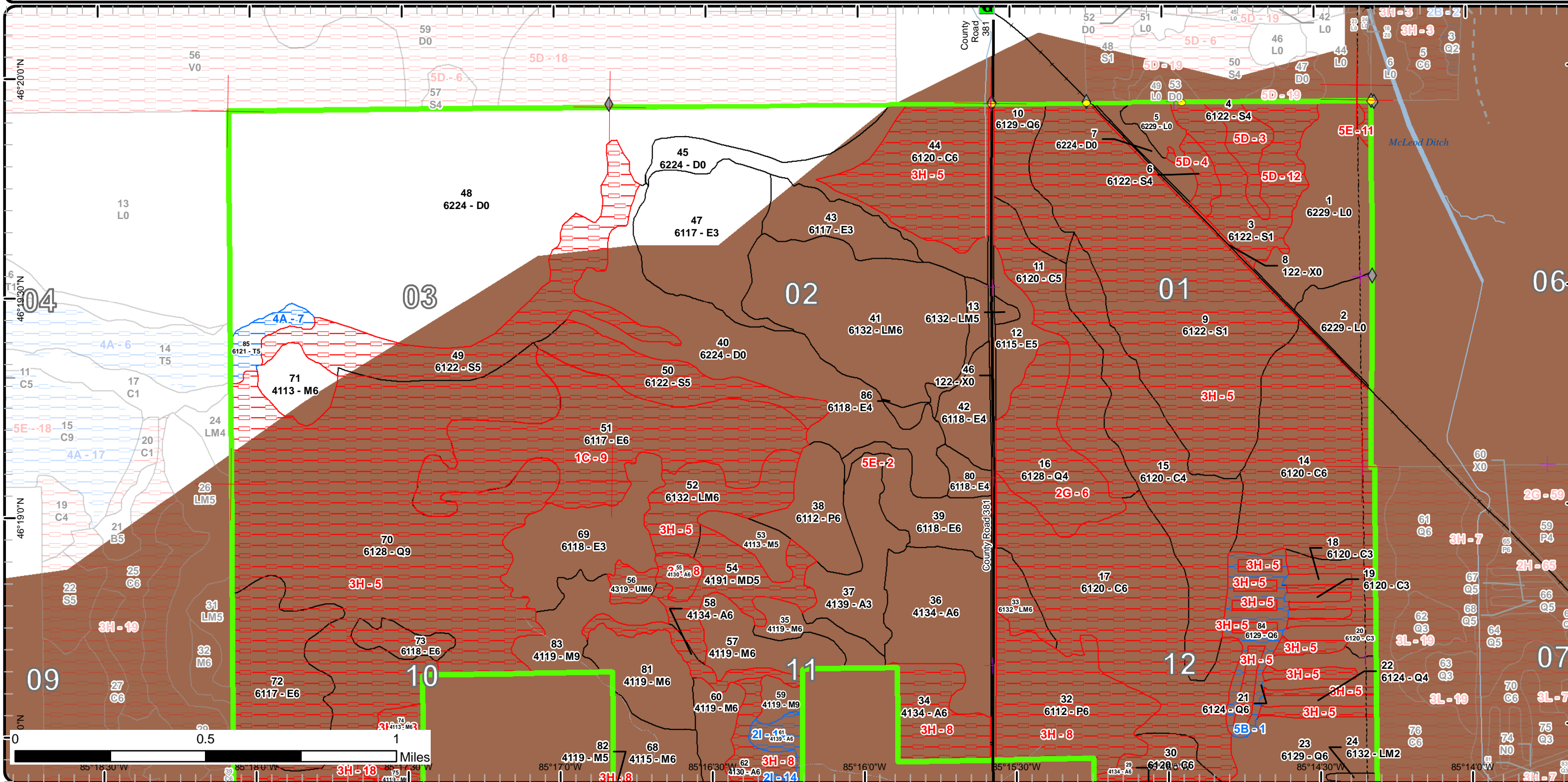


Special Conservation Areas & Site Conditions Map

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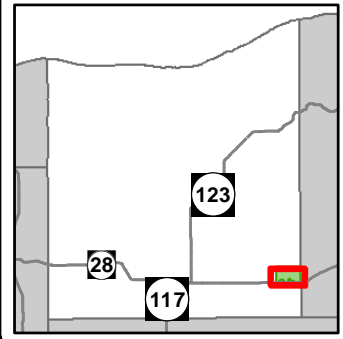


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- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 2I: Survey needed
- 4A: No Markets Available for these Forest Products
- 5B: Maintain for regeneration purposes
- 1C: Other dept or div proc/practices
- 2G: Too wet (sensitive soils, does not include access issues)
- 5D: Unproductive Forest Land
- 5E: Long-Term Retention
- Stand Boundaries
- Cold Water Streams
- Deer Winter Range

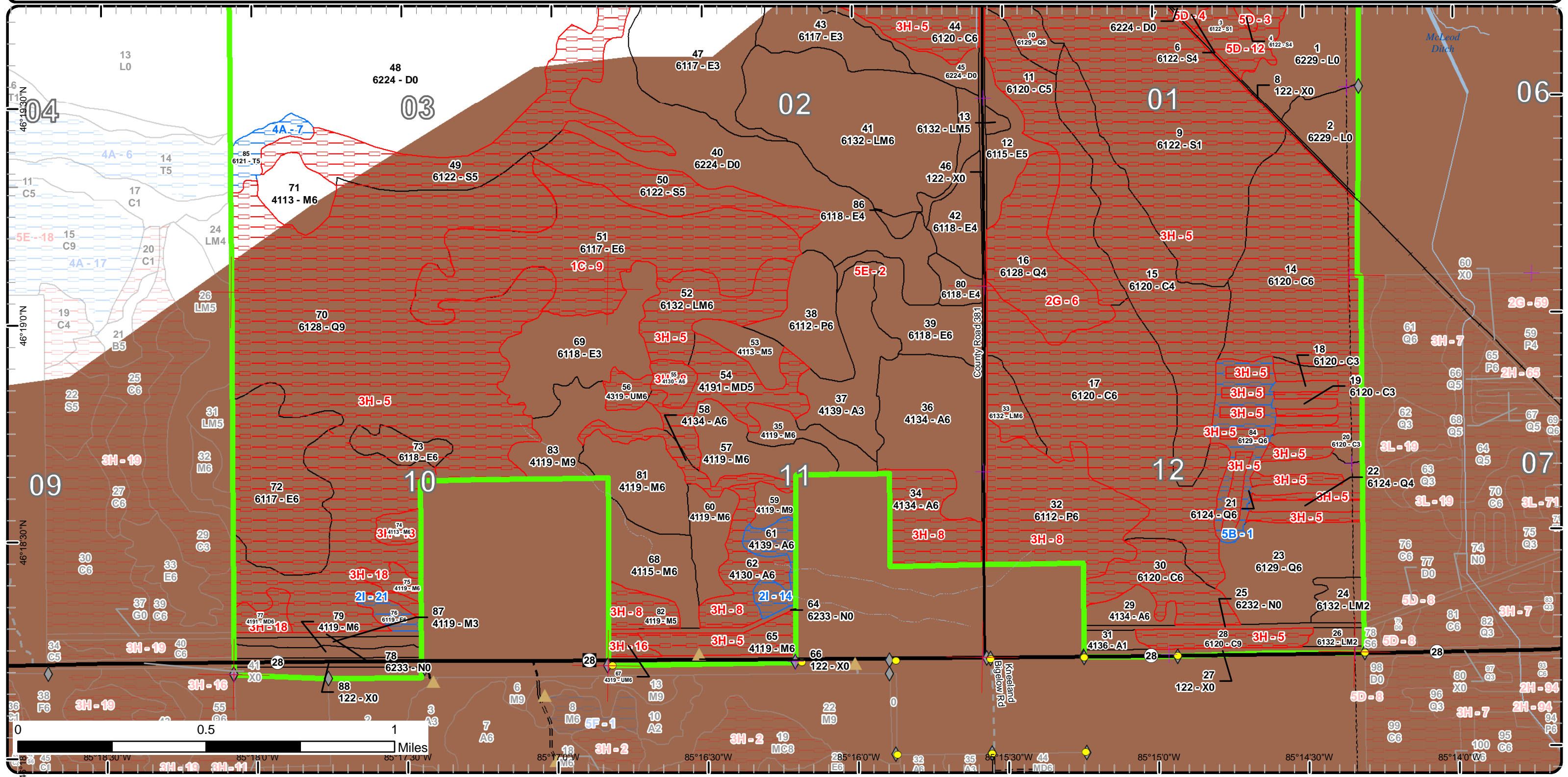


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Report 1 – Total Acres by Cover Type and Age Class

Newberry Mgt. Unit

Compartment 132 Year of Entry 2020

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	46	0	0	75	60	25	0	0	0	0	0	0	0	0	0	0	0	206
Cedar	0	0	0	0	0	16	0	0	0	0	109	143	250	0	0	0	0	0	518
Lowland Aspen/Balsam Poplar	0	0	0	0	103	0	0	0	0	0	0	0	0	0	0	0	0	0	102
Lowland Conifers	0	0	0	0	0	19	0	0	0	80	72	55	377	0	0	0	0	0	601
Lowland Deciduous	0	54	0	29	70	39	0	19	0	157	79	0	0	0	0	0	0	6	452
Lowland Mixed Forest	0	14	0	0	0	0	0	0	0	111	2	48	0	0	0	0	0	0	175
Lowland Shrub	96	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	96
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	0	0	394	0	0	0	0	0	0	0	393
Marsh	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14
Mixed Upland Deciduous	0	0	0	0	8	34	0	0	0	0	0	0	0	0	0	0	0	0	42
Northern Hardwood	0	8	0	0	0	0	0	0	0	0	70	30	0	0	0	0	0	152	260
Tamarack	0	0	0	0	0	0	0	0	0	0	0	0	11	0	0	0	0	0	11
Treed Bog	541	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	540
Upland Mixed Forest	0	0	0	0	0	0	0	0	0	0	4	7	0	0	0	0	0	0	11
Urban	46	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	46
Total	697	122	0	29	256	168	25	19	0	348	730	283	638	0	0	0	0	158	3467



Report 2 – Treatment Summary

Newberry Mgt. Unit

Year of Entry: 2020

Acres of Harvest

Compartment 132

Total Compartment Acres: 3,471

Commercial Harvest - 195
 Harvests with Site Condition - 139
 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	13	0	0	0	0	0	0	0	0	13
Lowland Conifers	0	0	0	53	0	0	0	0	0	53
Lowland Deciduous	0	0	0	157	0	0	0	0	0	157
Lowland Mixed Forest	111	0	0	0	0	0	0	0	0	111
Total	125	0	0	209	0	0	0	0	0	334

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	334	0	13	0	0	0	95	0	0	442
Next Step	0	0	0	0	0	0	347	0	0	347
Total	334	0	13	0	0	0	442	0	0	788



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
1	42132001- Monitor	63.1	6229 - Mixed lowland shrub	Nonstocked	0	Unspec ified	Monitoring	Natural Regen (Re-Inventory)	6122 - Black Spruce	Even-Aged	Draft Field Boundary

Habitat Cut: No**Site Condition:**

Prescription Monitor regeneration in next inventory cycle.

Specs:

Next Step

Treatments:

Acceptable Black Spruce and other associated lowland conifers.

Regen:

Other Percent to Treat = 100%

Comment:

Proposed Start Date: 10/1 /2019

2	42132002- Monitor	22.1	6229 - Mixed lowland shrub	Nonstocked	0	Unspec ified	Monitoring	Natural Regen (Re-Inventory)	6121 - Tamarack	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Monitor regeneration in next inventory cycle.

Specs:

Next Step

Treatments:

Acceptable Tamarack and other associated lowland conifers.

Regen:

Other Percent to Treat = 100%

Comment:

Proposed Start Date: 10/1 /2019

5	42132005- Monitor	9.5	6229 - Mixed lowland shrub	Nonstocked	0	Unspec ified	Monitoring	Natural Regen (Re-Inventory)	6122 - Black Spruce	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Monitor regeneration in next inventory cycle.

Specs:

Next Step

Treatments:

Acceptable Black spruce and other associated lowland conifers.

Regen:

Other Percent to Treat = 100%

Comment:

Proposed Start Date: 10/1 /2019

23	42132023-cut	52.5	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	87	51-80	Harvest	Seed Tree with Retention	612 - Lowland Coniferous Forest	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Final harvest leaving cedar. No cutting hemlock or white pine if present. Leave all cedar on the landscape, and where cedar density precludes cutting of other species, leave as a retention pocket. Also leave all sub-merchantable pockets of balsam fir.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Regeneration will be the same species that are present now.

Regen:

Other Winter harvest. No chipping.

Comment:

Proposed Start Date: 10/1 /2019



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
37	42132037- Plant	6.0	4139 - Aspen, Mixed Deciduous	Sapling Well	5	1-50	Planting	Interplant	413 - Aspen	Even-Aged	Draft Field Boundary

Habitat Cut: No**Site Condition:**

Prescription Plant red osier seedlings along trail road in suitable areas.

Specs:

Next Step Monitoring, Artificial Regen(3yr)

Treatments:

Acceptable Aspen with some seedling survival.

Regen:

Other

Comment:

Proposed Start Date: 4 /18/2018

39	42132039-cut	31.0	6118 - Lowland Deciduous with Cedar	Poletimber Well	86	81-110	Harvest	Seed Tree with Retention	611 - Lowland Deciduous Forest	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Final harvest. Remove all species except for cedar and any hemlock or large white pine that may be present. Leave all cedar on the landscape,

Specs: and where cedar density precludes cutting of other species, leave as a retention pocket. Also leave all sub-merchantable pockets of balsam fir.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Regeneration will be of those species that are present in the stand now.

Regen:

Other

Harvest during winter and/or frozen conditions. No chipping.

Comment:

Proposed Start Date: 10/1 /2019

41	42132041-20- New	111.3	6132 - Mixed Lowland Forest with Cedar	Poletimber Well	86	81-110	Harvest	Clearcut with Retention	6132 - Mixed Lowland Forest with Cedar	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Cut all species except for cedar, hemlock and any white pine that are present. Leave all cedar on the landscape, and where cedar density

Specs: precludes cutting of other species, leave as a retention pocket. Also leave all sub-merchantable pockets of balsam fir.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Regeneration will be those species that are present now.

Regen:

Other

Winter harvest for deer yard and soil protection. No chipping.

Comment:

Proposed Start Date: 10/1 /2019

51	42132051-cut	125.5	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	86	51-80	Harvest	Seed Tree with Retention	611 - Lowland Deciduous Forest	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition: Other Dept./Div. Processes**

Prescription Final harvest. No harvesting of cedar or hemlock or large white pine if found. Leave all cedar on the landscape, and where cedar density

Specs: precludes cutting of other species, leave as a retention pocket.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Regeneration will be those species that are present now.

Regen:

Other

Winter harvest for deer yard. There are some areas with high BA of cedar. These areas could be marked out as retention areas. No chipping.

Comment:

The Assistant Chiefs of FRD and WLD will be conducting a field visit to the site, and will reach resolution on the proposed harvest by September 1, 2019 (roughly 6 months from now). This site condition will not be changed until a decision is reached.

Proposed Start Date: 10/1 /2019



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
57	42132057-Plant	4.1	4119 - Mixed Northern Hardwoods	Poletimber Well	87	81-110	Planting	Interplant	411 - Northern Hardwood	Uneven-Aged	Draft Field Boundary

Habitat Cut: No **Site Condition:**

Prescription Plant red osier seedlings

Specs:

Next Step Monitoring, Artificial Regen(3yr)

Treatments:

Acceptable Hardwood with some seedling survival.

Regen:

Other

Comment:

Proposed Start Date: 4 /18/2018

60	42132060-Planting	3.1	4119 - Mixed Northern Hardwoods	Poletimber Well	87	81-110	Planting	Interplant	4319 - Mixed Upland Forest	Even-Aged	Draft Field Boundary
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Habitat Cut: No **Site Condition:**

Prescription plant red osier seedlings along the trail road in suitable locations.

Specs:

Next Step Monitoring, Artificial Regen(3yr)

Treatments:

Acceptable Hardwood with some seedling survival.

Regen:

Other

Carry over from previous inventory.

Comment:

Proposed Start Date: 4 /18/2018

61	42132061-cut	13.3	4139 - Aspen, Mixed Deciduous	Poletimber Well	59	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Draft Field Boundary
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Habitat Cut: No **Site Condition: Survey Needed**

Prescription Final harvest. No cutting of hemlock or cedar if found.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Regeneration will be species that are present now.

Regen:

Other

Winter harvest

Comment:

Proposed Start Date: 10/1 /2019

Total Treatment Acreage Proposed: 441.5

Report 4 – Site Conditions

Newberry Mgt. Unit
Jennifer Burnham : Examiner

Compartment: 132
Year of Entry: 2020

Availability for Management

Total Acres	Acres Available	Acres Avail		Acres Not Available	Dominant Site Conditions									
		With Condition			2I	4A	5B	1C	2G	3H	5D	5E		
206	116	13		76	Aspen	13					76			0
519	16	0		502	Cedar			0		0	502			
103	31	0		72	Lowland Aspen/Balsam Poplar						72			
602	71	23		507	Lowland Conifers	0	0	23		55	453			
453	242	6		205	Lowland Deciduous	6			125	0	80			
176	127	0		48	Lowland Mixed Forest						48			
96	94	0		2	Lowland Shrub									2
394	0	0		394	Lowland Spruce/Fir		0				322	72		
14	14	0		0	Marsh	0					0			
42	0	0		42	Mixed Upland Deciduous						42			
260	218	0		41	Northern Hardwood		0				41			
11	0	11		0	Tamarack		11							
540	540	0		0	Treed Bog		0					0		
11	0	0		11	Upland Mixed Forest						11			
46	46	0		0	Urban					0	0	0		
3,471	1,518	54		1,900	Total Forested Acres	19	11	23	125	55	1,645	72		2
	44%	2%		55%	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	23	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
2	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Newberry Mgt. Unit
Jennifer Burnham : Examiner

Compartment: 132
Year of Entry: 2020

3	Unavailable	5D: Unproductive Forest Land	14	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Poor quality, small dbh and low BA. High water table will keep it from getting better.							
4	Unavailable	5D: Unproductive Forest Land	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Poor quality, small dbh and low BA. High water table will keep it from getting better. Area to the north was harvested in 2015- boundary line was drawn where the timber wasn't very good.							
5	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	1,475	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Obligate deer yard. Majority of acres are on purchased lands. Past discussions include no harvesting in these stands.							
6	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	55	4A: No Markets Available for these Forest Products	Unspecified	Unspecified	Unspecified
Comments: Poor quality, small dbh and low BA. High water table will keep it from getting better. East edge gets a little better and if stand 11 gets a treatment maybe some of the edge trees could be removed.							
7	Available	4A: No Markets Available for these Forest Products	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Part of a timber sale in compartment to the west. Sale was given back after harvesting attempts did not work.							
8	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	147	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Obligate deer yard. Acres are on purchased lands. Past discussions indicate no harvesting.							

Report 4 – Site Conditions

Newberry Mgt. Unit
Jennifer Burnham : Examiner

Compartment: 132
Year of Entry: 2020

9	Unavailable	1C: Other dept or div proc/practices	125	Unspecified	Unspecified	Unspecified	Unspecified
Comments: The Assistant Chiefs of FRD and WLD will be conducting a field visit to the site, and will reach resolution on the proposed harvest by September 1, 2019 (roughly 6 months from now). This site condition will not be changed until a decision is reached.							
11	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
12	Unavailable	5D: Unproductive Forest Land	50	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
14	Available	2I: Survey needed	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
16	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	4	3L: Other wildlife concerns	Unspecified	Unspecified	Unspecified
Comments: Treatment removed per WLD, 10/30/2018.							
18	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	20	3L: Other wildlife concerns	Unspecified	Unspecified	Unspecified
Comments: Treatment removed per WLD, 10/30/2018.							

Report 4 – Site Conditions

Newberry Mgt. Unit

Compartment: 132

Jennifer Burnham : Examiner

Year of Entry: 2020

21	Available	2I: Survey needed	6	5C: Delay treatment for age/size class diversity or exceptional site quality	Unspecified	Unspecified	Unspecified
Comments: Survey is needed before harvesting. Waiting 10 years will increase the BA to a more merchantable cut.							

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



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 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	Habitat Area	An area that provide some specific need for the life cycle of wildlife species, including State Wildlife Areas and Waterfowl Production Areas, deer wintering complexes in lowland conifer communities, grassland openings and savannas. Habitat areas are distinct from critical habitat designated for recovery of endangered or threatened species (such as Kirtland's warbler or piping plover areas) in that they are more general in nature, are not primarily associated with threatened or endangered species, and are not covered by species recovery plans that are developed in cooperation with Federal agencies.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
3	6122 - Black Spruce	Sapling Poor	50.4	97	1-50	OPIC - FMD: Treed bog of spruce under 18 feet tall and 2-3 inch dbh.
4	6122 - Black Spruce	Poletimber Poor	13.8	92	1-50	OPIC - FMD: Stand is black spruce. Small diameters, short. Fairly open throughout the stand.
6	6122 - Black Spruce	Poletimber Poor	7.9	92	1-50	Wet ground and poor quality. Stands would need to be harvested with other acreage for better operability. OPIC - FMD: Stand is black spruce. Small diameters, short. Fairly open throughout.
9	6122 - Black Spruce	Sapling Poor	200.4	97	1-50	OPIC - FMD: Treed bog of spruce under 18 feet tall and 2-3 inch dbh.
10	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	27.1	88	51-80	Strip cuts still filling in. High water table keeping quality and BA low. OPIC - FMD: Low quality tamarack, black spruce and cedar. Thick understory. Old strip cuts, sale #39-78.
11	6120 - Lowland Cedar	Poletimber Medium	51.1	101	1-50	There is some cedar regeneration in the more open areas. All species but cedar is dying out. OPIC - FMD: Low quality Q type. More of a C4/C5 near the road. Mix of cedar with tamarack, spruce and red maple. Lots of dead tops. Very open in spots. Thick understory.
12	6115 - Lowland Ash	Poletimber Medium	18.9	61	1-50	Blow down where trees are present. High water table will keep this stand from becoming merchantable. OPIC - FMD: Lowland brush. L0/C2/Q2
13	6132 - Mixed Lowland Forest with Cedar	Poletimber Medium	2.1	99	51-80	The stand will need to have more acreage to make merchantable. Harvest should occur. OPIC - FMD: Very small acreage, low quality stand along Co Rd. Notes from previous entry year; "older soft maple will, could, and should make for good den, nesting and perch trees". Hold this stand for at least 10 years for W/L values.
14	6120 - Lowland Cedar	Poletimber Well	109.1	98	81-110	Around 90% of the tamarack is already dead. Cedar us poor to fair quality and short. Not a tight canopy. This stand was also part of stand 84 but was split out because of lower BA and shorter trees. OPIC - FMD: Mainly spruce, tamarack and some cedar. Occasional WB and aspen. Lower quality cedar, spruce and tamarack in northern portion of the stand. Very wet near RR tracks.
15	6120 - Lowland Cedar	Poletimber Poor	91.6	109	51-80	Poor quality stand. Not a tight canopy with short, stunted trees. OPIC - FMD: OI Stand Year Origin was 1910
16	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Poor	54.5	109	51-80	Old stumps from past harvests. Thicker stand than some of the surrounding ones. Some of the areas of mature timber are poor quality and would require a true winter to harvest. East edge of the stand is better than the west. OPIC - FMD: OI Stand Year Origin was 1910



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
17	6120 - Lowland Cedar	Poletimber Well	136.4	111	81-110	There is a trace amount of white birch and red maple. Would not be able to harvest without cutting cedar. All species are of poor quality. OPIC - FMD: Primarily cedar with good component of spruce and tamarack. Thick in spots and fairly open in others. Very thick "Q" understory throughout. Deer migration trails.
18	6120 - Lowland Cedar	Sapling Well	3.3	47	1-50	Trace amounts of white birch and red maple. Too thick to easily walk through. 10-30 feet tall depending on where you are at. OPIC - FMD: "Strip cuts" from early 1970's (1972). Stand is transitioning from a Q3 to a Q6. A portion of the trees are merchantable size. Mainly balsam, spruce and tamarack with scattered white birch and aspen. Occasional elm. Stand varies from a Q3 to a Q5.
19	6120 - Lowland Cedar	Sapling Well	2.9	47	1-50	Trace amounts of white birch and red maple. Too thick to easily walk through. 10-30 feet tall depending on where you are at. OPIC - FMD: "Strip cuts" from early 1970's (1972). Stand is transitioning from a Q3 to a Q6. A portion of the trees are merchantable size. Mainly balsam, spruce and tamarack with scattered white birch and aspen. Occasional elm. Stand varies from a Q3 to a Q5.
20	6120 - Lowland Cedar	Sapling Well	10.2	47	1-50	Trace amounts of white birch and red maple. Too thick to easily walk through. 10-30 feet tall depending on where you are at. OPIC - FMD: "Strip cuts" from early 1970's (1972). Stand is transitioning from a Q3 to a Q6. A portion of the trees are merchantable size. Mainly balsam, spruce and tamarack with scattered white birch and aspen. Occasional elm. Stand varies from a Q3 to a Q5.
21	6124 - Lowland Spruce- Fir	Poletimber Well	12.5	47	81-110	Left more residual cedar in the overstory than the northern strip cuts. OPIC - FMD: "Strip cuts" from early 1970's (1972). Stand is transitioning from a Q3 to a Q6. A portion of the trees are merchantable size. Mainly balsam, spruce and tamarack with scattered white birch and aspen. Occasional elm. Stand varies from a Q3 to a Q5.
22	6124 - Lowland Spruce- Fir	Poletimber Poor	5.8	47	81-110	More residual was left than the strip cuts to the north. OPIC - FMD: "Strip cuts" from early 1970's (1972). Stand is transitioning from a Q3 to a Q6. A portion of the trees are merchantable size. Mainly balsam, spruce and tamarack with scattered white birch and aspen. Occasional elm. Stand varies from a Q3 to a Q5.
23	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	52.5	87	51-80	Tamarack is dying out and should be treated. In 10 years the fir and spruce may have more dbh but the tamarack will be dead. OPIC - FMD: "Strip cuts" from early 1970's (1972). Stand is transitioning from a Q3 to a Q6. A portion of the trees are merchantable size. Mainly balsam, spruce and tamarack with scattered white birch and aspen. Occasional elm. Stand varies from a Q3 to a Q5.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
24	6132 - Mixed Lowland Forest with Cedar	Sapling Medium	9.3	5	Immature	<p>Stand filling in well. Conifer is mainly on the edges but is starting to come into the center part of the stand more. Good diversity. OPIC - FMD: Good quality black spruce with tamarack and cedar. Small acreage. Possible access from M-28 using old grown in road.</p> <p>Stand harvested as sale #022-10-01, "Compartment 132 Roadside". Completed 08/07/2014. Regeneration check needed per work instructions.</p>
26	6132 - Mixed Lowland Forest with Cedar	Sapling Medium	4.6	5	Immature	<p>Good diversity. More conifer on the edges but starting to fill in the center of the stand. OPIC - FMD: Good quality black spruce with tamarack and cedar. Small acreage. Possible access from M-28 using old grown in road. More tamarack near the highway. Some dead tamarack.</p> <p>Stand harvested as sale #022-10-01, "Compartment 132 Roadside". Completed 08/07/2014. Regeneration check needed per work instructions.</p>
28	6120 - Lowland Cedar	Sawtimber Well	14.2	114	81-110	<p>Couple open areas and old stumps where cedar was harvested in the past. All species but cedar are over mature. Would not be able to harvest without cutting cedar. Blow down holes have white birch coming in. Too much snow to know if there is also conifer present in these gaps.</p> <p>OPIC - FMD: Nice, thick canopy cedar stand. Good snow intercept values. Lots of deer activity (January). Blowdown cedar is heavily browsed.</p>
29	4134 - Aspen, Spruce/Fir	Poletimber Well	10.8	38	51-80	<p>Fair quality - cut in 10 years.</p> <p>OPIC - FMD: Young stand of aspen and balsam poplar. Thick F3 understory throughout. Stand edges and near swamps are more of an A4/P4 - more open and smaller dbh. Lots of red maple 15 ft tall in understory. Scattered residual WP. Transitioning from an A3/P3 to A6/P6.</p>
30	6120 - Lowland Cedar	Poletimber Well	31.1	114	81-110	<p>Old stumps from when cedar was picked through. Lots of pockets of blowdown regen in these gaps is mainly white birch. Some layer of cedar in these spots also.</p> <p>OPIC - FMD: Nice, thick canopy cedar stand. Good snow intercept values. Lots of deer activity (January). Blowdown cedar is heavily browsed.</p>
31	4136 - Aspen, Mixed Conifer	Sapling Poor	4.9	5	1-50	<p>Good regeneration.</p> <p>OPIC - FMD: Overmature, large diameter aspen with low quality red maple, cedar and spruce. Scattered WB, hemlock and ash. Aspen is declining. Small acreage stand.</p> <p>Stand harvested as sale #022-10-01, "Compartment 132 Roadside". Completed 08/07/2014. Regeneration check needed per work instructions.</p>



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
32	6112 - Lowland Aspen	Poletimber Well	71.6	38	51-80	There were strip cuts done in the late 70's for deer yard and then TSI work. It's hard to determine where they were on the photos. Some areas have better quality wood than other areas. OPIC - FMD: Young stand of aspen and balsam poplar. Thick F3 understory throughout. Stand edges and near swamps are more of an A4/P4 - more open and smaller dbh. Lots of red maple 15 ft tall in understory. Pockets of lower areas throughout stand. Cut as sale #31-76A. Completed 4/1/81. Transitioning from an A3/P3 to A6/P6.
33	6132 - Mixed Lowland Forest with Cedar	Poletimber Well	12.3	109	51-80	Poor quality, wet stand. Health is okay it might be beneficial to wait 10 years. OPIC - FMD: OI Stand Year Origin was 1910
34	4134 - Aspen, Spruce/Fir	Poletimber Well	32.7	38	81-110	Could be harvested now or wait 10 years depending on harvesting needs. OPIC - FMD: Stand harvested in 1980 as sale #60-79A, TSI work completed. Stand is beginning to transition from an A3 to an A6. Nice tall, thick aspen.
35	4119 - Mixed Northern Hardwoods	Poletimber Well	15.0	97	81-110	Stand should be harvested. OPIC - FMD: Small diameter, short, mainly red maple with hard maple. Pockets of larger W Ash mixed in. Scattered large diameter red maple, basswood and aspen. Lower quality, slightly wetter ground than adjacent stand. More hemlock than adjacent stand. 99 = aspen W ash and Y Birch
36	4134 - Aspen, Spruce/Fir	Poletimber Well	59.7	42	81-110	Fair quality stand. Could harvest now or wait 10 years for dbh growth. OPIC - FMD: Stand was cut in 1977 as sale #26-75A. Pockets of A5/A6. Ranges from an A6 to P5, A3 in spots, P3/Q3 in areas. Lots of balsam (F3). Lots of variability in the stand.
37	4139 - Aspen, Mixed Deciduous	Sapling Well	41.1	5	1-50	Still in the process of regeneration, mostly stump sprouts with good diversity. OPIC - FMD: Originally all part of one stand with adjacent stand 39 (formerly all stand 24). Separated out because this stand has a higher component of aspen, white birch and red maple. More ash, cedar and spruce in adjacent stand. Aspen is overmature, red maple and birch showing rot and decline. Some dead spruce. Stand ranges from a P6-M6/E6 - Q6 (in spots). Scattered white pine. Stand is mature. Prescribe for treatment. Harvest the stand with a final harvest (clearcut w/reserves). Winter cut. Leave white pine and some pockets of cedar for retention pockets. White birch and aspen will regenerate well based on adjacent clearcuts. 98 pulp = black spruce and balsam. Management objective of lowland aspen and birch. Likely will have some hardwood, balsam and spruce regen. Stand harvested as sale #021-10-01, "Mattila's Maple". Completed 06/06/2014. Regeneration check needed per work instructions.
38	6112 - Lowland Aspen	Poletimber Well	30.9	38	51-80	Trace amounts of cedar. Harvest in 10-20 years. OPIC - FMD: Stand was cut in 1981 as sale #03-79. Young aspen and balsam poplar. Pockets of A6/P6 and A5/P5. Stand is transitioning from saplings to pole size. Scattered cedar. Some yellow birch regeneration.
39	6118 - Lowland Deciduous with Cedar	Poletimber Well	31.0	86	81-110	Would be good to harvest the over mature stand, leaving the cedar. Cedar was picked through at some point. OPIC - FMD: OI Stand Year Origin was 1933



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
41	6132 - Mixed Lowland Forest with Cedar	Poletimber Well	111.3	86	81-110	Final harvest leaving any cedar, white pine or hemlock found in the stand. Poor quality and is starting to loose BA. OPIC - FMD: Lots of variability to the stand. Ranges from a Q type to an E type. Pockets of cedar. Overall stand quality is low. WB is dying out. Some dieback in the red maple. Most RM is small dbh. Some large supercanopy WP. North half of stand is more of an E type, south half is more of a Q type.
42	6118 - Lowland Deciduous with Cedar	Poletimber Poor	19.5	41	1-50	Stand is dying out and mainly dead from high water table. OPIC - FMD: Q3/Q2 with black spruce, cedar, balsam, WB and some red maple. Also some elm. 1978 photos show stand to be recently cut - late 1970's.
43	6117 - Lowland Deciduous, Mixed Coniferous	Sapling Well	29.1	29	1-50	The residual that remains is mainly cedar with some trace amounts of XL white pine. There is no need to remove the remaining overstory with the large amount of regeneration that is present. OPIC - FMD: P2/P3 with pockets of residual maple and cedar. Very thick stand with balsam and spruce regeneration. WB, asp, balsam, spruce, RM. Smaller regeneration than adjacent stand to the west. Cut in 1990 as sale #005-90-02, "Soo Junction Extension". 1990 sale specs called this cut a shelterwood.
44	6120 - Lowland Cedar	Poletimber Well	68.7	114	51-80	Poor quality 2-3 sticks in height, stunted by a high water table. Edge along the county road is starting to die out. Old skid road from when the stand was picked through earlier is still very visible on the ground. OPIC - FMD: Lower quality and lots of dead cedar near the Co Rd. Main part of the stand is nice cedar with black spruce.
47	6117 - Lowland Deciduous, Mixed Coniferous	Sapling Well	69.7	33	1-50	Some areas have the start of poles, edges have the most conifer. OPIC - FMD: Higher ground portions of the stand are nice aspen regen 35-40 ft tall - bordering on an A4/P4. Lower areas are more open with balsam poplar, spruce and tag alder. Good component of balsam to the stand. Stand was cut from 1979 - 1986 (sale #002-79-01). Never completed. Closed 3/19/86.
49	6122 - Black Spruce	Poletimber Medium	80.9	98	51-80	OPIC - FMD: Black spruce. Very limited access. Transitions to treed bog, edges are smaller dbh and shorter. BA ranges from 30 - 80 sq ft.
50	6122 - Black Spruce	Poletimber Medium	40.5	98	51-80	Stand has a little more BA and dbh than adjacent stand 49. Soil type will keep the stand of poor quality. OPIC - FMD: Black spruce. Very limited access. Transitions to treed bog, edges are smaller dbh and shorter. BA ranges from 30 - 80 sq ft.
51	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	125.5	86	51-80	Deciduous trees overtop the cedar by 2-3 sticks. Final harvest leaving cedar, hemlock and any white pine that may be present. There are only a few areas where cedar would make operability difficult. Kind of an open canopy. OPIC - FMD: Stand was originally part of the same stand with Stand 69. Stand 69 is being prescribed for treatment. This stand is slightly lower quality and slightly lower ground. Stand ranges from an E type to an M type. Could type as an E6 or an M6. Mostly red maple with some hard maple, ash, spruce and cedar. Areas with a good conifer component. Wet pockets. Possibly manage in 10 years depending on how the adjacent stand regenerates.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
52	6132 - Mixed Lowland Forest with Cedar	Poletimber Well	36.1	109	81-110	Trace amounts of white pine and hemlock on the edges. Not a dense stand with some open pockets. In 20 years the deciduous trees will over top the cedar. OPIC - FMD: Primarily cedar w/pockets of E5 and Q6. Mix of species within the stand. Good amount of deer activity. Lots of browsing on hardwood saplings. Typed as a Q6 last entry year. Large cedar throughout.
53	4113 - R.Maple, Conifer	Poletimber Medium	13.1	87	81-110	Harvested with Mattila's Maple 6/2014, conifer mainly on the edges. Mainly pole sized stand with some large diameter, low quality red maple. A few spruce. Portion of the stand northwest of the road is more red maple, slightly lower quality w/some cedar mixed in. Prescribe the stand for a thinning treatment. Winter cut. Remove low quality trees and favor future crop trees. Avg residual BA of 70-80 (70 in lower quality areas). Stand harvested as sale #021-10-01, "Mattila's Maple". Completed 06/06/2014.
54	4191 - Mixed Upland Deciduous with Conifer	Poletimber Medium	33.7	42	81-110	Final harvest, no cutting of cedar. Winter cut. OPIC - FMD: Mixed stand of young aspen, low quality hardwoods (RM, ash). Good component of cedar, spruce, balsam. Low areas. Stand was somewhat highgraded with past sales (diameter limit on hardwoods). Cut in past as sale #37-73A (closed 2/23/77) and sale #63-79 (complete 1980).
55	4130 - Aspen	Poletimber Well	7.4	39	81-110	Small dbh and BA is on the low end of the scale, but could be harvested now with adjacent stand 56. OPIC - FMD: Small stand of young aspen. Cut sometime between 1977 and 1980. Possibly sale #63-79, completed in 1980. Old notes stated possibly cut in 1977?
56	4319 - Mixed Upland Forest	Poletimber Well	6.7	109	81-110	If not harvested this YOE will loose volume in the stand. Leave cedar and hemlock when cut. OPIC - FMD: Primarily cedar w/pockets of E5 and Q6. Mix of species within the stand. Good amount of deer activity. Lots of browsing on hardwood saplings. Typed as a Q6 last entry year. Large cedar throughout.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
57	4119 - Mixed Northern Hardwoods	Poletimber Well	28.0	87	81-110	<p>West side of stand has less residual BA than east. E side looks more like a regular thinning. No deer browse.</p> <p>OPIC - FMD: Nice quality red maple and hard maple with pockets of White ash. Best quality is in the 8-10 inch maple. NW portion of the stand (north of old road) is half maple and half ash. Middle of the stand is lower quality. Scattered white spruce, hemlock and beech. A few aspen and yellow birch. Prescribe for a selection harvest. Reduce the white ash BA to 10-20 sq ft and thin white ash pockets down to 20 sq ft BA residual (Emerald Ash Borer considerations - EAB). Remove low quality maple. Maintain a component of spruce, leave all hemlock. Canopy gaps to promote maple regeneration. Management objective of northern hardwoods. 6/26/13: Currently under contract #42-021-10-01. Will add "salvage remaining ash" within sale area due to EAB salvage efforts. Post Compartment Review Modification notice sent out on 6/18/13.</p> <p>Stand harvested as sale #021-10-01, "Mattila's Maple". Completed 06/06/2014. Regeneration check needed per work instructions.</p>
58	4134 - Aspen, Spruce/Fir	Poletimber Well	11.8	59	81-110	<p>Overmature stand. Final harvest not cutting any hemlock that maybe in the stand or on the edges. Edges were treated around '68 for deer habitat. There was no evidence of deer use this winter.</p> <p>OPIC - FMD: Aspen with low quality hardwoods. Some over mature aspen but most is younger, healthy aspen. Stand separated out from younger adjacent aspen stand. Long narrow stand (2-3 chains wide), provides an east/west corridor between stand prescribed for treatment. West end of stand has more balsam, red maple and hemlock.</p>
59	4119 - Mixed Northern Hardwoods	Sawtimber Well	6.8	87	51-80	<p>Conifer is on the edges of the stand.</p> <p>OPIC - FMD: Nice stand of mainly hard maple with some red maple pockets and aspen. Good quality hard maple poles. Scattered beech and white ash. Prescribe for a thinning treatment to remove lower quality trees and release good quality pole size trees. Remove aspen. Reduce any pockets of white ash to 20 st ft of BA. Residual BA avg for the stand of 80. Winter cut. 6/26/13: Currently under contract #42-021-10-01. Will add "salvage remaining ash" within sale area due to EAB salvage efforts. Post Compartment Review Modification notice sent out on 6/18/13.</p> <p>Stand harvested as sale #021-10-01, "Mattila's Maple". Completed 06/06/2014.</p>



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
60	4119 - Mixed Northern Hardwoods	Poletimber Well	18.3	87	81-110	<p>Good regeneration from the canopy openings. No deer browse present on the regeneration.</p> <p>OPIC - FMD: Primarily a hard maple stand with red maple, clumps of basswood, white ash. Some large diameter aspen throughout. Scattered beech. Medium quality. Some good quality hard maple. Prescribe for a selection harvest. Winter cut. Reduce the white ash BA to avg of 10 sq ft (EAB considerations). Remove low quality maple and low quality basswood clumps. Mark aspen for removal (overmature) but leave a component. 99 = white ash, basswood and beech. Management objective of northern hardwoods. Management objective of northern hardwoods. 6/26/13: Currently under contract #42-021-10-01. Will add "salvage remaining ash" within sale area due to EAB salvage efforts. Post Compartment Review Modification notice sent out on 6/18/13.</p> <p>Stand harvested as sale #021-10-01, "Mattila's Maple". Completed 06/06/2014. Regeneration check needed per work instructions.</p>
61	4139 - Aspen, Mixed Deciduous	Poletimber Well	13.3	59	81-110	<p>Beech is present but it is dead or almost dead. There are some pockets of mostly ash and maple but of poor quality. Harvest and leave hemlock and cedar if found.</p> <p>OPIC - FMD: Aspen with low quality hardwoods. Some over mature aspen but most is younger, healthy aspen. Stand separated out from younger adjacent aspen stand. Old sales within the stand #37-73A (1977), #63-79 (1980), and #77-84-01 (1985). Good M5 component in south half of the stand.</p>
62	4130 - Aspen	Poletimber Well	23.7	34	51-80	<p>Harvest in 10 years.</p> <p>OPIC - FMD: Young aspen stand. Stand was cut multiple times in the 1970's and 1980's, sales #37-73A in 1977, #63-79 in 1980, #77-84-01 in 1985. South half is more A5/A4/A3 while the north half is more of a younger A3. Manage now as one stand. M3 = maple, basswood and ash.</p>
65	4119 - Mixed Northern Hardwoods	Poletimber Well	17.7	97	81-110	<p>Ash and beech dying out. Harvest in the winter.</p> <p>OPIC - FMD: Red maple with large overmature aspen along M-28. Lots of maple 4-6 inch dbh. Pockets of hemlock. Good quality 8-10 inch red maple. Basswood and white ash. Overmature red maple within the stand showing decline and dead tops. 99 = white ash, basswood, yellow birch. 98 = white spruce and hemlock.</p>
67	4319 - Mixed Upland Forest	Poletimber Well	3.9	97	111-140	<p>OPIC - FMD: Small stand of hemlock, cedar, red maple. Some yellow birch and scattered white pine and white birch. Some blowdown.</p>
68	4115 - Y.Birch, Hemlock NH	Poletimber Well	29.3	97	81-110	<p>Good regeneration.</p> <p>OPIC - FMD: "Soo Junction Hardwoods" sale #009-01-01. Completed 6/23/06. Good regeneration coming in. Open areas where aspen was removed has aspen regen 6-10 ft tall. Red maple stumps sprouts. Smaller hard maple saplings 2-4 ft tall. Scattered hemlock and yellow birch. Avg BA of 60-90 sq ft.</p> <p>(2014) - Stand was treated again in 2014 with TSale 42-021-10 Mattilas Maple. There was a Chapter 7 circulated to get approval to remove the overstory ash in this stand with the threat of EAB. Monitor stand for regeneration per work instructions.</p>



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
69	6118 - Lowland Deciduous with Cedar	Sapling Well	54.4	5	1-50	<p>Stand filling in well. Not much blow down, conifer still filling in the stand. Trace amounts of large white pine and hemlock. No deer browse or sign of deer this winter.</p> <p>Stand harvested as sale #021-10-01, "Mattila's Maple". Completed 06/06/2014. Regeneration check needed per work instructions.</p> <p>OPIC - FMD: Primarily red maple with hard maple, yellow birch, hemlock and cedar. Some aspen, balsam poplar and white ash. East end has more sugar maple (slightly higher ground). A few pockets of small diameter E5 (RM, ash). Some good maple crop trees in 8-10 inch class. Aspen and Bam is overmature. Prescribe for a shelterwood harvest. Leave all cedar, hemlock and yellow birch. Favor good quality maple and future maple crop trees as residual. Cut aspen, Bam, spruce and low quality maple. Reduce any pockets of ash to 20 sq ft BA (EAB considerations). Small pockets of conifers may be left as retention. Small diameter E5 pockets with thick understory may not need to be marked through. 99 sawtimber is HM, RM and W Ash. 99 pulp is aspen, bam and maple. 98 pulp is cedar and spruce. 6/26/13: Currently under contract #42-021-10-01. Will add "salvage remaining ash" within sale area due to EAB salvage efforts. Post Compartment Review Modification notice sent out on 6/18/13.</p>
70	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well	377.4	114	81-110	<p>Closed canopy in most places but not tight, especially in the more dominated hardwood areas. There is evidence the stand has been picked through but not as strip cuts. BA is on the lower end in most places. Harvesting of some areas should occur to help with regeneration of all species except cedar. Cedar is mostly 4 sticks in height. No deer present this winter.</p> <p>OPIC - FMD: Very mixed stand. Variability - E6/P6/Q6/C6/Q4. Pockets of solid cedar up to 140 BA. Pockets of Hemlock, Cedar, Spruce and R maple mix - real "Q" type. Pockets of a "P" type with RM, Bam and WB. Open areas of Q4/Q5 with thick understory. Lots of deer activity.</p>
71	4113 - R.Maple, Conifer	Poletimber Well	19.0	91	51-80	<p>Access will be difficult because of distance from good road and wet ground.</p> <p>OPIC - FMD: Low quality red maple and white birch with scattered hard maple, cedar and spruce. A few super canopy white pine. Maple is declining w/dead tops - poor quality throughout most of the stand. Very thick F3 understory of mainly balsam and spruce with some ash and white birch. Questionable access. Best quality is in the understory.</p>
72	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	68.3	91	81-110	<p>Final harvest, no cut cedar, yellow, hemlock or white pine. Ash is mainly found in the small canopy openings. Winter harvest. No deer in the area.</p> <p>OPIC - FMD: Low quality red maple and white birch with scattered hard maple, cedar and spruce. A few super canopy white pine. Maple is declining w/dead tops - poor quality throughout most of the stand. Very thick F3 understory of mainly balsam and spruce with some ash and white birch. Questionable access. Best quality is in the understory.</p>



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
73	6118 - Lowland Deciduous with Cedar	Poletimber Well	11.0	91	81-110	<p>Stand should be treated. Waiting 10 years may help with an increase in fir dbh but the potential for the other species to die out is greater.</p> <p>OPIC - FMD: Low quality red maple and white birch with scattered hard maple, cedar and spruce. A few super canopy white pine. Maple is declining w/dead tops - poor quality throughout most of the stand. Very thick F3 understory of mainly balsam and spruce with some ash and white birch. Questionable access. Best quality is in the understory.</p>
74	4113 - R.Maple, Conifer	Poletimber Well	6.2	97	111-140	<p>OPIC - FMD: Red maple with hard maple. Small acreage stand. Knob of hardwoods. There are trace amounts of yellow birch and aspen. Conifer is found the edges and in clumps. No deer in area.</p> <p>Mostly poor quality wood. Good quality in the center of the stand. Edges of the stand have smaller diameters with more balsam. Scattered hemlock of all sizes. Prescribe the stand for a thinning to remove lower quality trees and promote good quality poles. May need to mark some hemlock for maneuverability. Mark balsam for cut along stand edges where it is a major component. Access is very questionable - limiting factor stand? Wet, drainage to the south. Possible access through PVT?</p>
75	4119 - Mixed Northern Hardwoods	Poletimber Well	5.7	97	51-80	<p>There are trace amounts of yellow birch. Some cedar near the north edge of the stand. No deer use this winter. No browse. Good regeneration.</p> <p>OPIC - FMD: Small acreage red maple stand with some hard maple, white ash and hemlock. Prescribe for a thinning with adjacent hardwood stands. Access is questionable due to drainage to the south of the stand. Possible access through private? Factor limited stand (wet, access).</p> <p>Stand harvested as sale #022-10-01, "Compartment 132 Roadside". Completed 08/07/2014.</p>
76	6119 - Mixed Lowland Deciduous Forest	Poletimber Well	6.0	97	51-80	<p>There are trace amounts of yellow birch. Some cedar near the north edge of the stand. No deer use this winter. No browse. Good regeneration.</p> <p>OPIC - FMD: Medium quality hard maple and red maple with some white ash, ironwood and a few large diameter spruce and aspen. Mainly pole sized 8-10 inch stand. Small drainage through the middle of the stand. Prescribe for a thinning. Winter cut. Access from M-28 via old road. Residual BA of 70 sq ft.</p> <p>Stand harvested as sale #022-10-01, "Compartment 132 Roadside". Completed 08/07/2014.</p>
77	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	7.8	39	51-80	<p>No sign of deer in the area.</p> <p>OPIC - FMD: P3/Q3/F3/P4. Balsam, aspen, balsam poplar and white birch. Tag alder. Some residual cedar, aspen and maple. No records of the old harvest. Gogomain muck soil.</p>



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
79	4119 - Mixed Northern Hardwoods	Poletimber Well	17.9	97	81-110	<p>Area within M-28 ROW.</p> <p>OPIC - FMD: Stand consists mainly of overmature aspen with spruce, white birch, balsam poplar, cedar and red maple. Balsam poplar is dying out of the stand. Aspen is showing rot and mortality in patches. Most of the aspen is still healthy. Prescribe for final harvest (clearcut). Small acreage/narrow stand. No retention needed. Could leave cedar as residual and hemlock if present. Access from M-28 is via old road on east end of the stand. East end has more low quality hardwoods mixed in. Management objective of aspen, with a component of hardwoods and mixed conifers. MDOT owns a wide ROW bordering this stand. Be sure of boundary location when running sale lines.</p> <p>Stand harvested as sale #022-10-01, "Compartment 132 Roadside". Completed 08/07/2014. Regeneration check needed per work instructions.</p>
80	6118 - Lowland Deciduous with Cedar	Poletimber Poor	7.8	41	51-80	<p>Stand is dying out from high water table. This is the area from stand 42 that is still doing okay.</p> <p>OPIC - FMD: Q3/Q2 with black spruce, cedar, balsam, WB and some red maple. Also some elm. 1978 photos show stand to be recently cut - late 1970's.</p>
81	4119 - Mixed Northern Hardwoods	Poletimber Well	32.7	97	51-80	<p>Harvest again in 5-10 years.</p> <p>OPIC - FMD: "Soo Junction Hardwoods" sale #009-01-01. Completed 6/23/06. Good regeneration coming in. Open areas where aspen was removed has aspen regen 6-10 ft tall. Red maple stumps sprouts. Smaller hard maple saplings 2-4 ft tall. Scattered hemlock and yellow birch. Avg BA of 60-90 sq ft.</p>
82	4119 - Mixed Northern Hardwoods	Poletimber Medium	11.5	97	51-80	<p>Good regeneration - no deer or some past browse but none present this year. OPIC - FMD: "Soo Junction Hardwoods" sale #009-01-01. Completed 6/23/06. Good regeneration coming in. Open areas where aspen was removed has aspen regen 6-10 ft tall. Red maple stumps sprouts. Smaller hard maple saplings 2-4 ft tall. Scattered hemlock and yellow birch. Avg BA of 60-90 sq ft.</p>
83	4119 - Mixed Northern Hardwoods	Sawtimber Well	30.1	103	51-80	<p>Stand looks good. Some areas have higher residual BA than others. No deer or browse on the regeneration. OPIC - FMD: Primarily red maple with hard maple, yellow birch, hemlock and cedar. Some aspen, balsam poplar and white ash. East end has more sugar maple (slightly higher ground). A few pockets of small diameter E5 (RM, ash). Some good maple crop trees in 8-10 inch class. Aspen and Bam is overmature. Prescribe for a shelterwood harvest. Leave all cedar, hemlock and yellow birch. Favor good quality maple and future maple crop trees as residual. Cut aspen, Bam, spruce and low quality maple. Reduce any pockets of ash to 20 sq ft BA (EAB considerations). Small pockets of conifers may be left as retention. Small diameter E5 pockets with thick understory may not need to be marked through. 99 sawtimber is HM, RM and W Ash. 99 pulp is aspen, bam and maple. 98 pulp is cedar and spruce. 6/26/13: Currently under contract #42-021-10-01. Will add "salvage remaining ash" within sale area due to EAB salvage efforts. Post Compartment Review Modification notice sent out on 6/18/13. Stand harvested as sale #021-10-01, "Mattila's Maple". Completed 06/06/2014. Regeneration check needed per work instructions.</p>



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
84	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	71.8	98	81-110	<p>Around 30% of the tamarck (found in pockets) is dead or dying. Would be nice to harvest more of this stand especially by the strip cuts. Not a tight canopy. This stand was part of 14 but was split out because the BA and stand quality are slightly higher.</p> <p>OPIC - FMD: Mainly spruce, tamarack and some cedar. Occasional WB and aspen.</p>
85	6121 - Tamarack	Poletimber Medium	11.2	114	51-80	<p>Some mortality in the tamarack. Very poor quality and a very wet stand.</p> <p>This stand was part of TSale# 420071301 - Sinking Snowshoes. This sale was offered on two separate bid offerings and went no bid both times. It was also solicited to several loggers who subsequently looked at it over a several month period. Most loggers were not interested in the amount of road work involved and the lowland nature of the soil types. Also some loggers mentioned not having decent market for the cedar that was on this sale. The proposed treatment was subsequently cancelled.</p>
86	6118 - Lowland Deciduous with Cedar	Poletimber Poor	11.8	41	51-80	<p>Stand is dying out from high water table. This is the area from stand 42 that is still doing okay. OPIC - FMD: Q3/Q2 with black spruce, cedar, balsam, WB and some red maple. Also some elm. 1978 photos show stand to be recently cut - late 1970's.</p>
87	4119 - Mixed Northern Hardwoods	Sapling Well	8.3	5	1-50	<p>Good regeneration. No deer or browse in the area.</p> <p>OPIC - FMD: Stand consists mainly of overmature aspen with spruce, white birch, balsam poplar, cedar and red maple. Balsam poplar is dying out of the stand. Aspen is showing rot and mortality in patches. Most of the aspen is still healthy. Prescribe for final harvest (clearcut). Small acreage/narrow stand. No retention needed. Could leave cedar as residual and hemlock if present. Access from M-28 is via old road on east end of the stand. East end has more low quality hardwoods mixed in. Management objective of aspen, with a component of hardwoods and mixed conifers. MDOT owns a wide ROW bordering this stand. Be sure of boundary location when running sale lines.</p> <p>Stand harvested as sale #022-10-01, "Compartment 132 Roadside". Completed 08/07/2014. Regeneration check needed per work instructions.</p>



Stand	Cover Type	Acres	Managed Site	General Comments:
1	6229 - Mixed lowland shrub	64.7		<p>Harvest completed 4/2015. Regen check will need to take place in 2020 in snow free conditions. Looking at past treatments in the compartment there should not regeneration issues.</p> <p>(2014) - TSale#420110801 Soo Junction Spruce. TCR 4/14/15. There is a pocket of cedar left along the east side of stand. A lot of the spruce retention died after cutting.</p> <p>OPIC - FMD: Stand is currently under contract. Sale #42-011-08-01, "Soo Junction Spruce". Set up with sale/stands from adjacent compartment (C130) due to access issues. Agreed to at the 2008 YOE Comp Review. Stand is black spruce with tamarack and some white birch. Nice runs of spruce throughout with pockets of very small diameters.</p>
2	6229 - Mixed lowland shrub	22.1		<p>Harvest completed 4/2015. Regen check will need to take place in 2020 in snow free conditions. Looking at past treatments in the compartment there should not regeneration issues.</p> <p>(2014) - TSale#420110801 Soo Junction Spruce. TCR 4/14/15. There is a pocket of cedar left along the east side of stand. A lot of the spruce retention died after cutting.</p> <p>OPIC - FMD: Stand is currently under contract. Sale #42-011-08-01, "Soo Junction Spruce". Set up with sale/stands from adjacent compartment (C130) due to access issues. Agreed to at the 2008 YOE Comp Review. Stand is nice tall tamarack with black spruce, white birch and balsam.</p>
5	6229 - Mixed lowland shrub	9.4		<p>Harvest completed 4/2015. Regen check will need to take place in 2019 in snow free conditions. Looking at past treatments in the compartment there should not regeneration issues.</p> <p>(2014) - TSale#420110801 Soo Junction Spruce. TCR 4/14/15. There is a pocket of cedar left along the east side of stand. A lot of the spruce retention died after cutting.</p> <p>OPIC - FMD: Stand is currently under contract. Sale #42-011-08-01, "Soo Junction Spruce". Set up with sale/stands from adjacent compartment (C130) due to access issues. Agreed to at the 2008 YOE Comp Review. Stand is black spruce. Nicer spruce in the center of the stand and smaller diameters near stand edges.</p>
7	6224 - Treed Bog	9.2	No	OPIC - FMD: Treed bog of spruce under 18 feet tall and 2-3 inch dbh.
8	122 - Road/Parking Lot	6.5	No	OPIC - FMD: Canadian National Railroad R.O.W.
25	6232 - Wet Prairie	6.0	No	OPIC - FMD: Cloverland Electric utility R.O.W.
27	122 - Road/Parking Lot	8.4	No	OPIC - FMD: Highway M-28 and MDOT R.O.W.
40	6224 - Treed Bog	105.5	No	OPIC - FMD: tag alder, stunted cedar and some black spruce
45	6224 - Treed Bog	39.2	No	OPIC - FMD: Black spruce. Very limited access. Transitions to treed bog, edges are smaller dbh and shorter. BA ranges from 30 - 80 sq ft.



Stand	Cover Type	Acres	Managed Site	General Comments:
46	122 - Road/Parking Lot	16.0	No	OPIC - FMD: County Road 381 R.O.W.
48	6224 - Treed Bog	386.6	No	OPIC - FMD: OI Stand Year Origin was
64	6233 - Wet Meadow	4.0	No	OPIC - FMD: Cloverland Electric utility R.O.W.
66	122 - Road/Parking Lot	7.2	No	M-28 ROW
78	6233 - Wet Meadow	4.2	No	OPIC - FMD: Cloverland Electric utility R.O.W.
88	122 - Road/Parking Lot	7.9	No	OPIC - FMD: Highway M-28 and MDOT R.O.W.