



Compartment Review Presentation

Gwinn Forest Management Unit

Compartment 32216

Entry Year 2022

Acreage: 989

County Marquette

Management Area: Peshekee Highlands

Revision Date: 2020-07-23

Stand Examiner: Jason Caron

Legal Description:

T48N R30W, Sections 4, 8, 10, 16, and 17.

Identified Planning Goals:

Goals for this compartment are mixed use. The primary goal would be timber production combined with wildlife management. Timber production primarily consists of pulpwood due to the poorer quality soils. Both early and late successional habitat management exists within the compartment which provide for an even flow of timber products and optimum wildlife habitat. The stands within Section 8 of this compartment will continue to provide late successional habitat as some of these areas were identified as Ecological Reference Areas (ERA'S).

Soil and topography:

Soils in this compartment fall into the Keewaydin-Michigamme Rock Outcrop Association. These soils are moderately to very deep over bedrock. On the surface they are cobbly fine sandy loams. Minor soil components within this association include Carbondale, Cathro, Net and Witbeck in the depressions and drainages, and Champion, Dishnow, Peshekee, and Sundog soils in the remainder of the landscape positions. These soils lend concerns with erosion and equipment limitations because of the terrain, and windthrow hazards as well. Topography is generally very hilly to nearly level. Terrain becomes very steep in areas of the rock outcrop.

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

Ownership within this compartment and immediate landscape is State, private industrial, and 2 large landowners (Brown Bay Properties & O'Dovero Properties). Some smaller non-industrial private parcels do exist. Land use is primarily timber production and recreation.

Unique Natural Features:

Areas of rock outcrops and brushy drainages.

Archeological, Historical, and Cultural Features:

None known.

Special Management Designations or Considerations:

Certain areas within Section 8 are considered an Ecological Reference Area (ERA). An ERA document will be written describing these areas in further detail.

Watershed and Fisheries Considerations:

This compartment contains the West Branch of the Peshekee River, an unnamed tributary that flows into the WB Peshekee and an unnamed stream that flows into Lake Michigamme. 100' buffers are recommended for these waterbodies.

Wildlife Habitat Considerations:

Compartment 216 is found within the Peshekee Highlands Management Area; on a Bedrock Controlled Ground Moraine in east central Baraga and northwestern Marquette County. The dominant Natural Communities are mesic northern forest, poor conifer swamps, and boreal forests. This management area receives significant snowfall and does not offer wintering habitat for deer. As a result, many tree species that do not reliably recruit across the Ecoregion are found in numerous age classes across this management area. Additionally, three of the largest tracts of mature forest in the Great Lakes (e.g. McCormick Tract, Craig's Lake Wilderness State Park, and the Huron Mountain Club) occur within or adjacent to this management area, the best example of a dry mesic northern forest (Rocking Chair Lakes) in the state and two of the top eight examples of Mesic Northern Forest statewide occur here. The current condition and spatial arrangement of these areas provide some of the best opportunities within the WUP, state, and Great Lakes for area sensitive wildlife requiring large tracts of mature forest, mesic conifer or corridors between such areas. Wildlife management issues in this management area are: habitat fragmentation; course woody debris; retain or develop large living and dead standing trees (for cavities); mesic conifer; mature forest; within-stand diversity; early successional forest (hardwood browse adjacent to closed canopy lowland conifer swamps); and course woody debris.

The following have been identified as featured species for the Peshekee Highlands Management area: American marten, blackburnian warbler, gray jay, moose, northern goshawk, and pileated woodpecker.

Mineral Resource and Development Concerns and/or Restrictions

No known potential exists for commercial oil & gas production in this part of the state. Active sand/gravel pits do not exist in the area, and potential within the compartment is low. Glacial drift is primarily absent in this area. The bedrock in this area (granite and gneiss) typically does not have commercial value. Abandoned, historic iron mines of the Marquette iron district are located to the southeast and southwest, but there is no known metallic mineral potential beneath the compartment. There has been no documented past metallic mineral exploration within the compartment, and there is no current state mineral leasing activity in the area.

Vehicle Access:

Vehicle access into this compartment is very difficult. Three road systems exist in this portion of the landscape that are passable during snow free months. Most other side roads are very rough and predominantly winter roads.

Survey Needs:

No survey needs for this YOE.

Recreational Facilities and Opportunities:

No recreational facilities currently exist. Craig Lake State Park is to the east by approximately one mile.

Fire Protection:

Most fires that occur within this area are started via lightening strikes. Access to these fires will most likely be on foot. Fire suppression equipment would most likely be hand tools and portable pumps. Vegetation within this compartment is not prone to large scale fires but rather creeping understory fires. More intense fire activity may occur within the spruce-fir cover types.

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**

Report 1 – Total Acres by Cover Type and Age Class

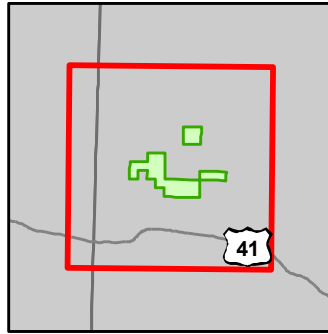


Age Class

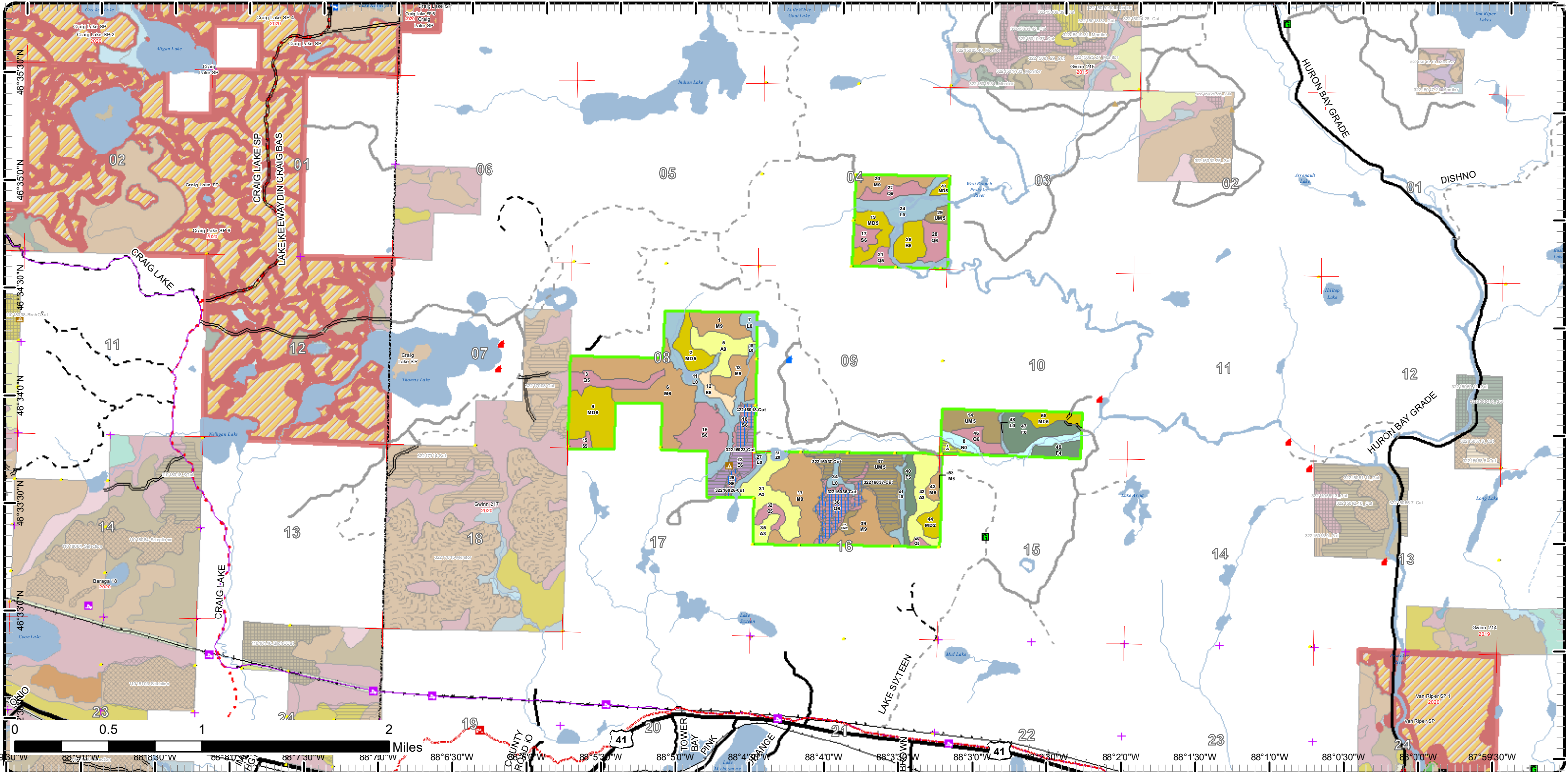
	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	0	45	30	0	0	0	0	0	0	0	27	0	0	0	0	0	0	102
Low-Density Trees	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Lowland Conifers	0	0	0	0	0	0	0	0	0	11	44	56	0	0	0	0	0	0	111
Lowland Deciduous	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0	0	0	0	24
Lowland Shrub	125	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	125
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	0	0	52	13	0	0	0	0	0	0	64
Marsh	19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19
Mixed Upland Deciduous	0	0	0	9	0	0	0	0	0	0	13	43	0	0	0	0	0	46	110
Northern Hardwood	0	0	0	0	0	0	0	0	0	0	0	74	0	0	0	0	0	175	249
Paper Birch	0	0	0	0	0	0	0	0	0	0	9	20	0	0	0	0	0	0	29
Upland Mixed Forest	0	0	4	0	0	0	0	25	0	0	0	6	60	0	0	0	0	0	95
Upland Spruce/Fir	0	0	0	0	0	0	13	30	0	0	0	13	0	0	0	0	0	0	55
Water	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Total	150	0	49	39	0	0	13	55	0	11	142	252	60	0	0	0	0	221	989

Overview Map

Compartment: 216
 T48N,R30W, Sec. 4,8,10,16,17
 County: Marquette
 Unit: Gwinn
 Mgmt Area: Peshekee Highlands
 YOE: 2022
 Acres: 989.3 GIS Calculated
 Examiner: Jason Caron
 Map Revised: 3/3/2021
 Map Phase: Post-Review

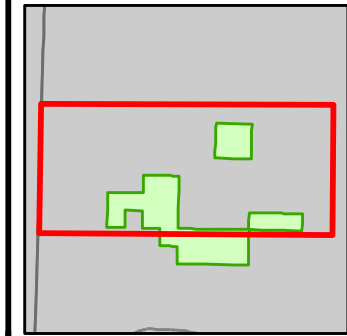


- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State Highway
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- Private - Paved Road
- Private - Dirt / Gravel Road
- Active Railroads
- ORV Routes
- Snowmobile Trails
- Designated ORV Route
- Designated Snowmobile Trails
- Cabin
- House
- Toilet
- ▲ Berms
- Gate
- Boating Access Site
- Bridges
- ▲ Campground
- Intermittent Stream
- Island in Lake or River
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Powerline
- Compartment Boundary
- Clearcut (w/Reserves)
- Seed Tree (w/Reserves)
- 411 - Northern Hardwood
- 413 - Aspen
- 414 - Other Upland Deciduous
- 419 - Mixed Upland Deciduous
- 423 - Other Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland

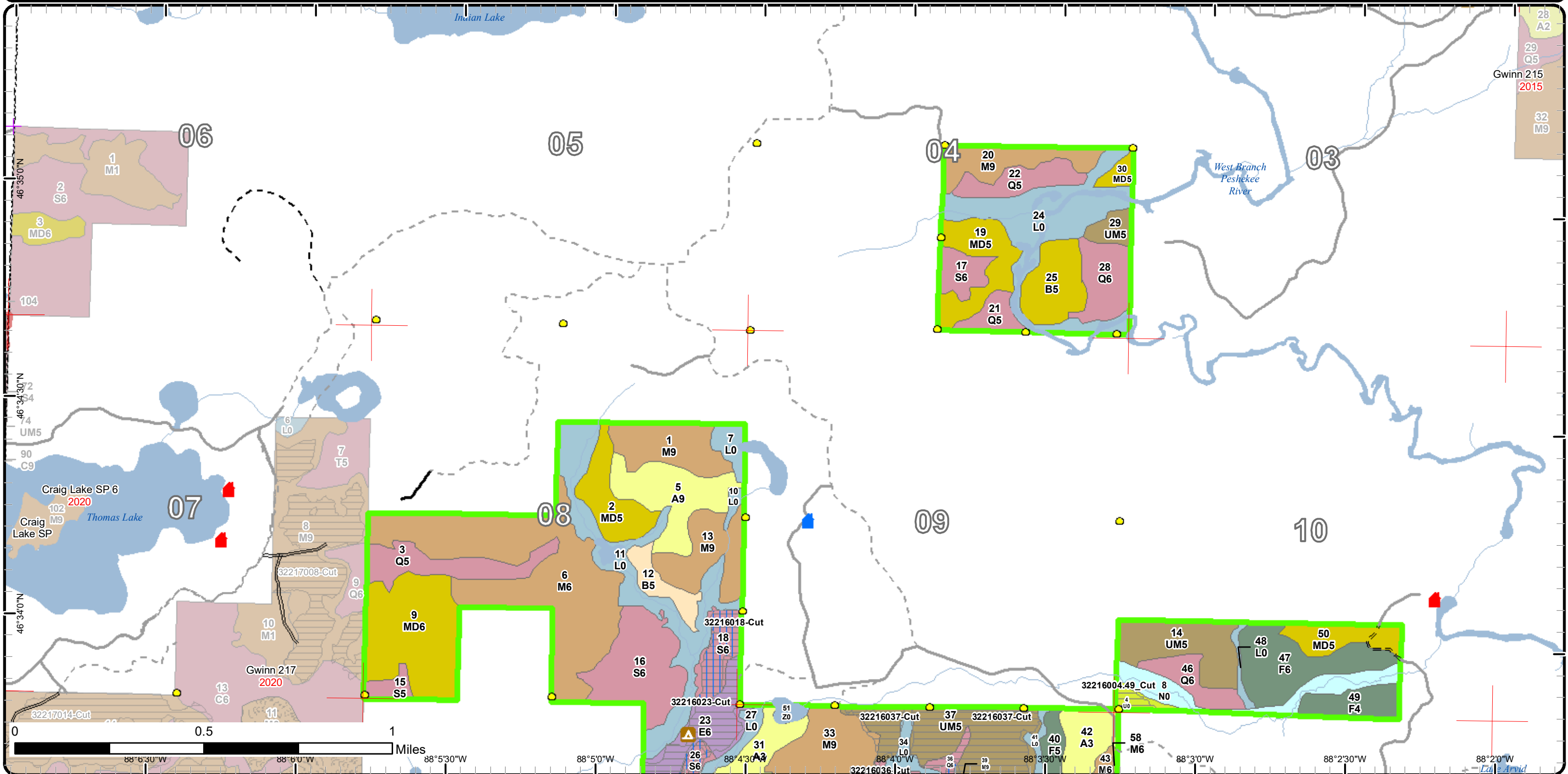


Cover Type & Treatments Map

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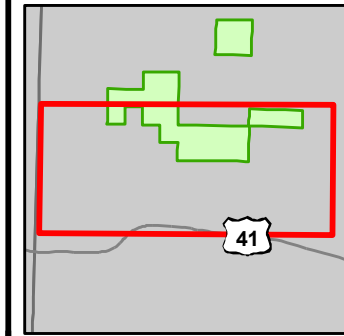


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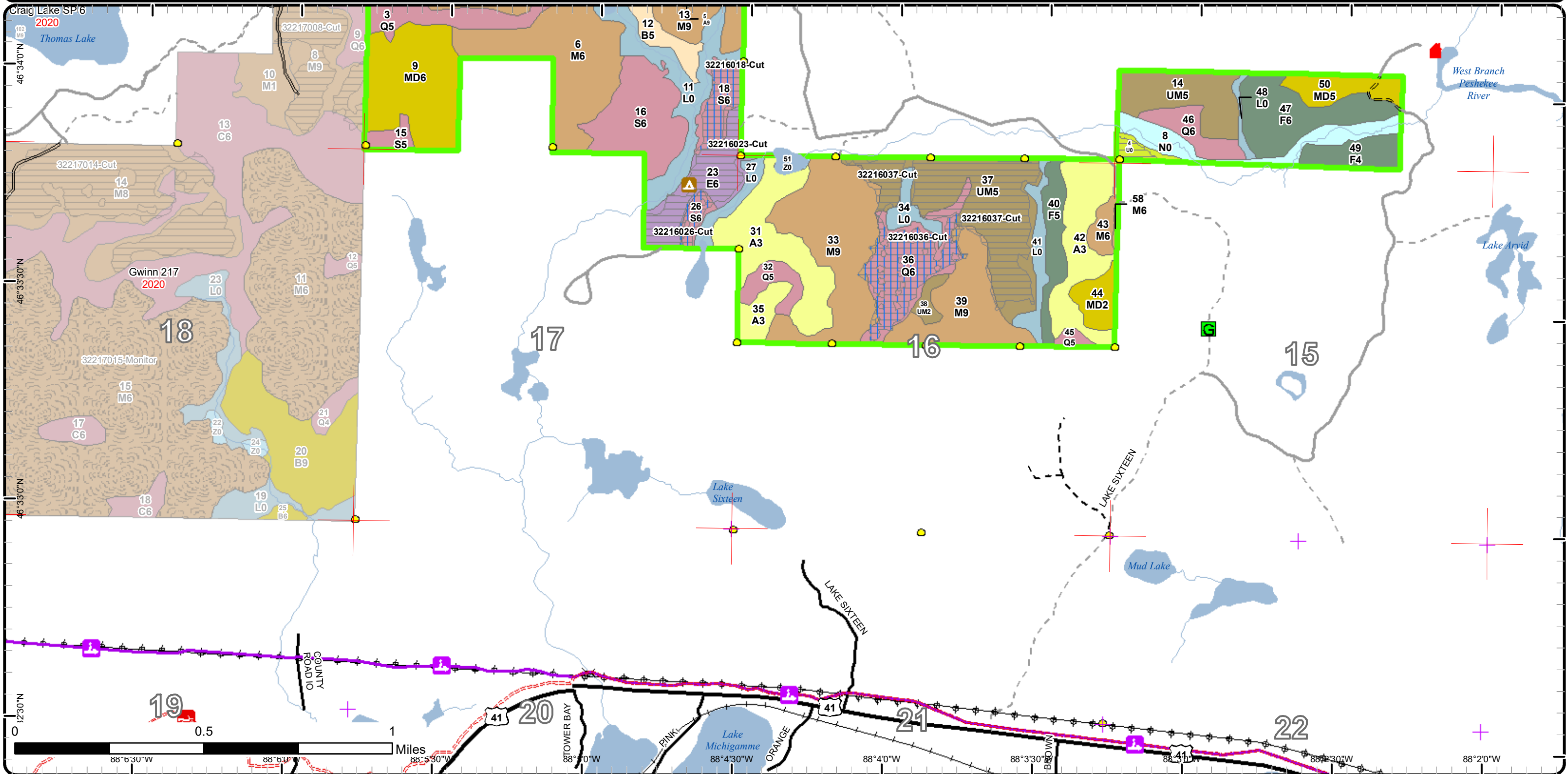


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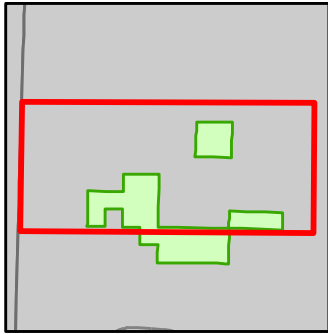


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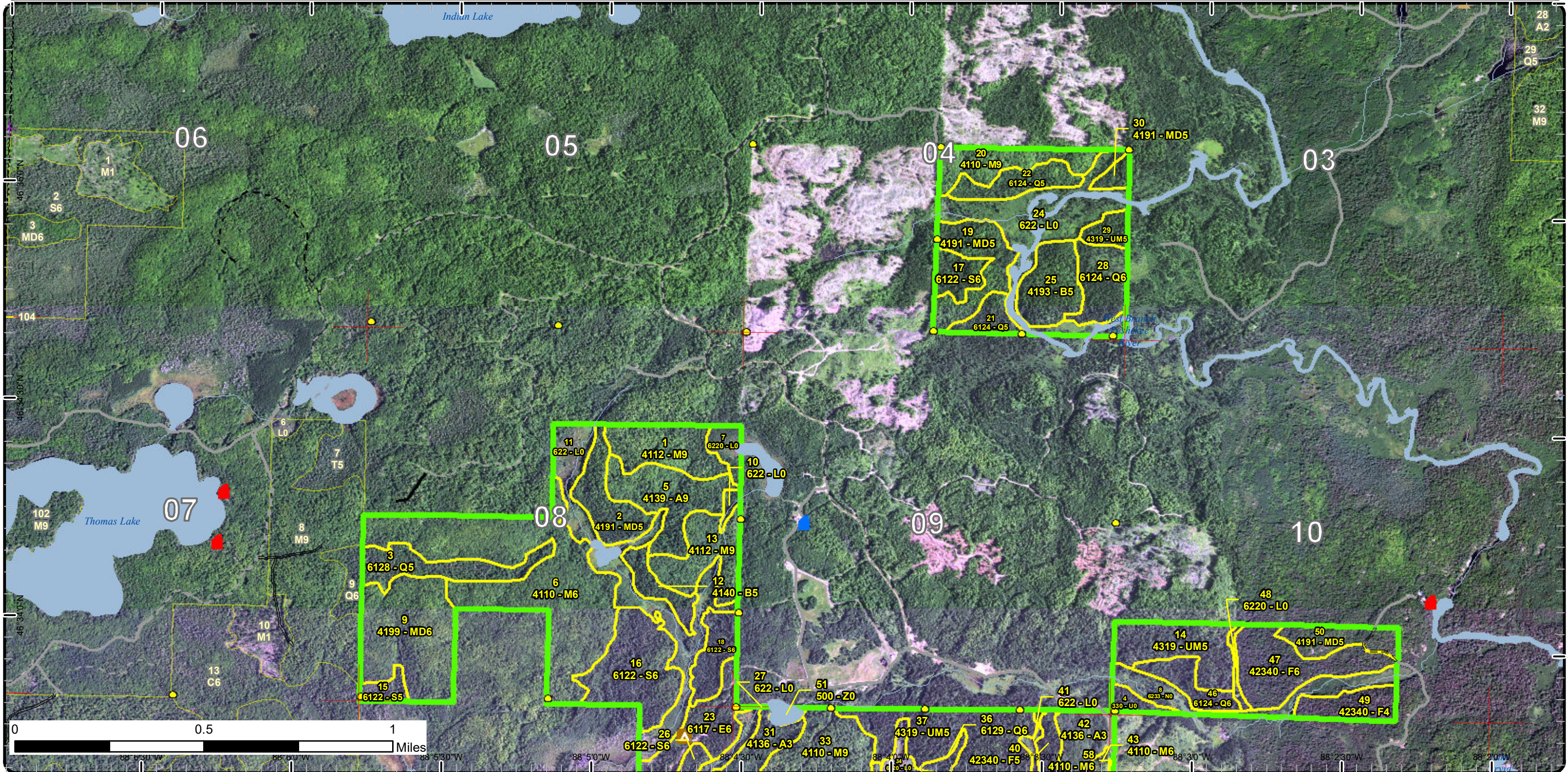


Stand Boundary Map

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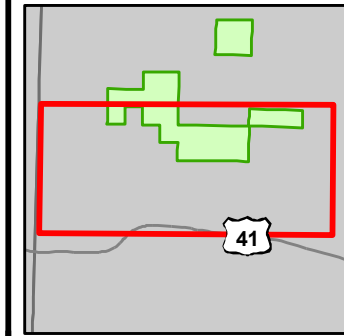


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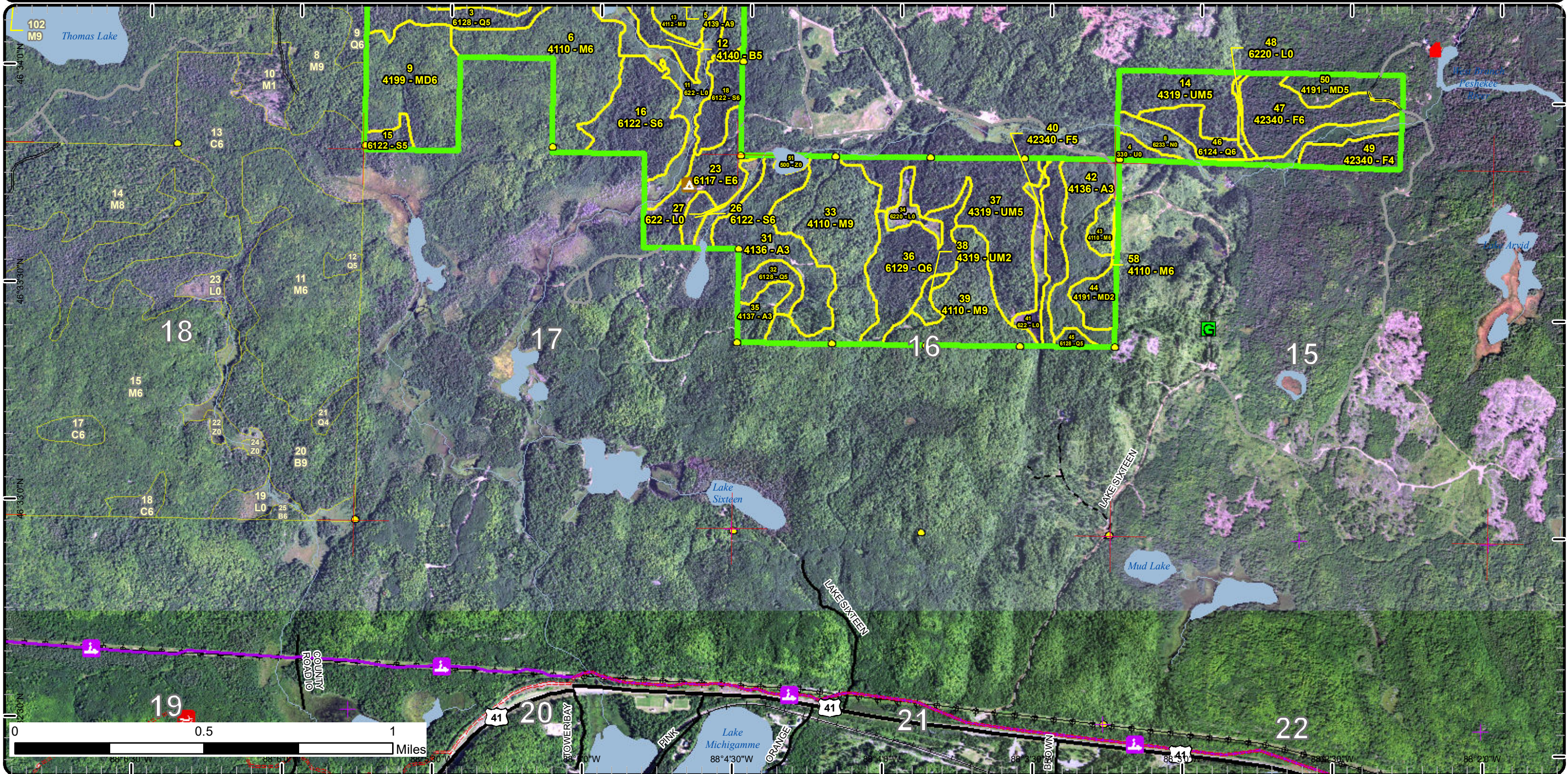


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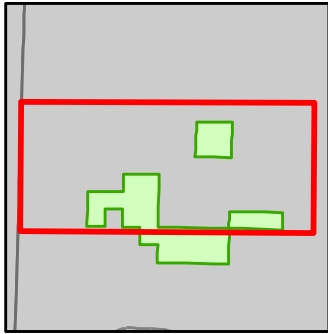


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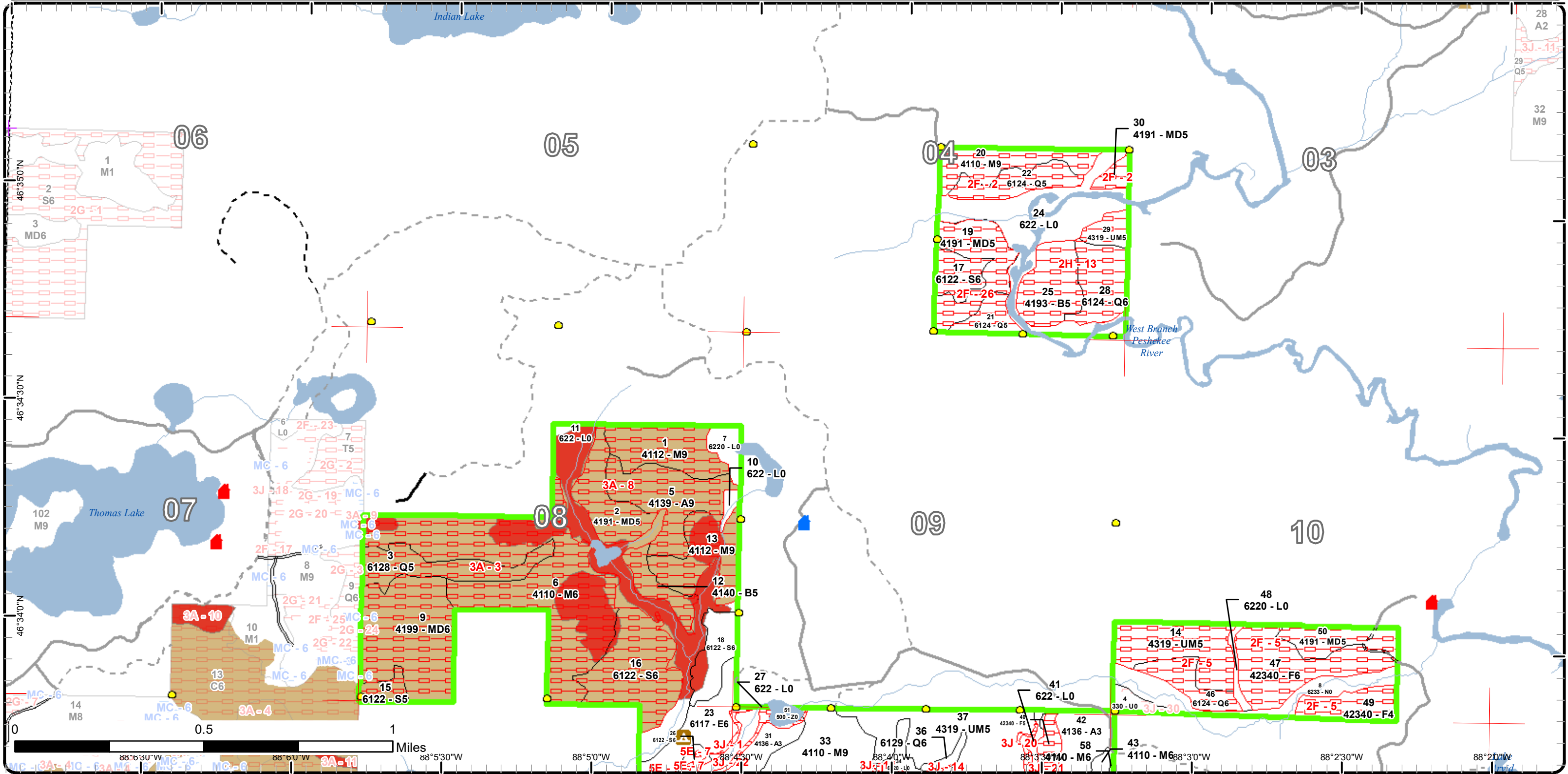


Special Conservation Areas

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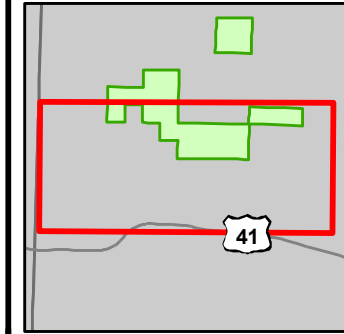


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- Compartment Boundary
- Unavailable
- 2F: Too steep
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 3A: Conservation Values incompatible with harvest at this time
- 3J: Water quality / BMPs (stream, river, or lake)
- Stand Boundaries
- Ecological Reference Areas
- Forest Habitat Core Interior

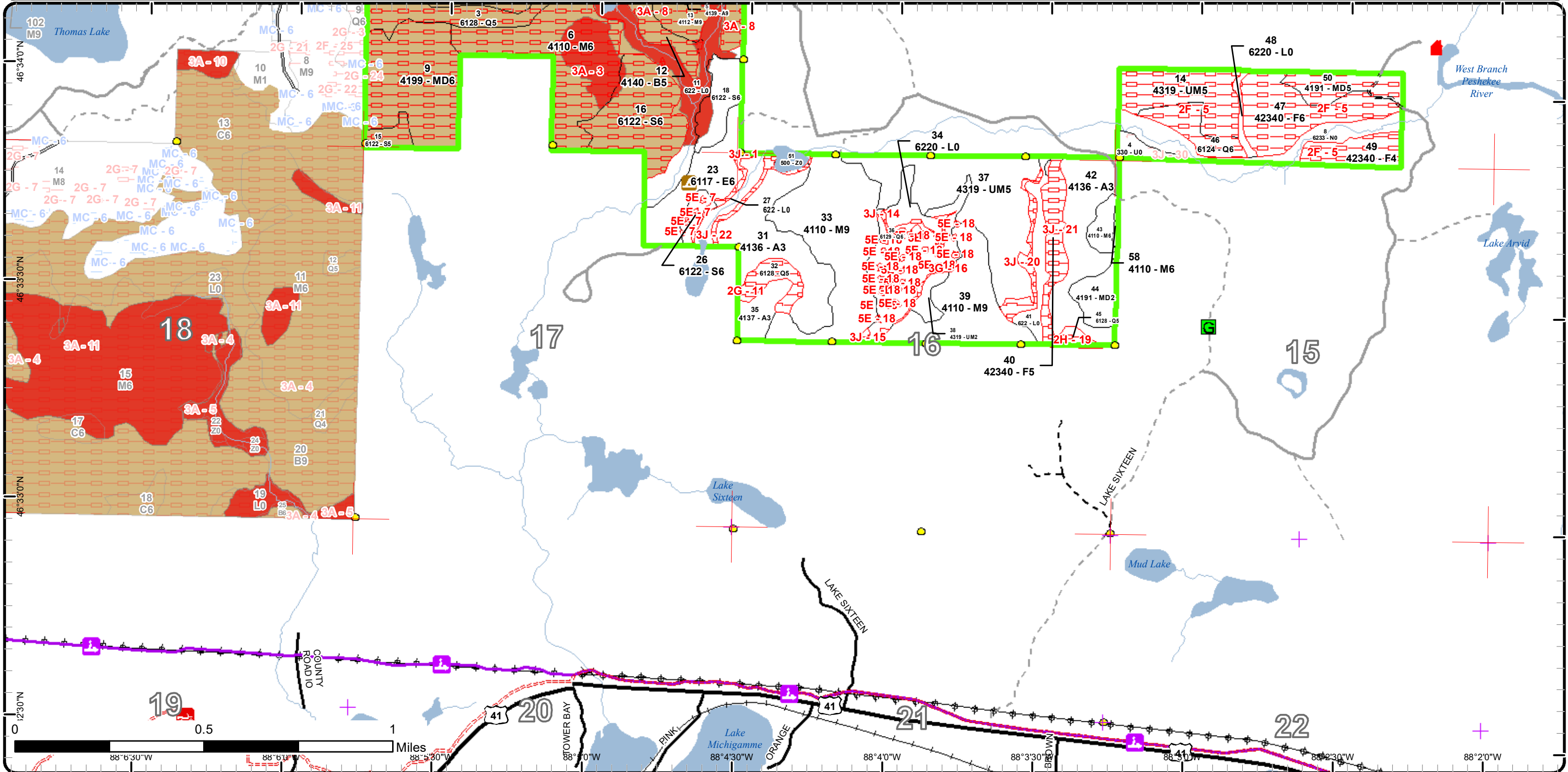


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- Compartment Boundary
- Unavailable
- 2F: Too steep
- 2G: Too wet (sensitive soils, does not include access issues)
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 3A: Conservation Values incompatible with harvest at this time
- 3G: Other Influence zones - See comments
- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention
- Stand Boundaries
- Ecological Reference Areas
- Forest Habitat Core Interior





Report 2 – Treatment Summary

Gwinn Mgt. Unit

Year of Entry: 2022

Acres of Harvest

Compartment 216
Total Compartment Acres: 989

Commercial Harvest - 114
Harvests with Site Condition - 0
Next Step Harvest - 0
Habitat Cut - 0

Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Low-Density Trees	2	0	0	0	0	0	0	0	0	2
Lowland Conifers	0	0	0	24	0	0	0	0	0	24
Lowland Deciduous	21	0	0	0	0	0	0	0	0	21
Lowland Spruce/Fir	0	0	0	14	0	0	0	0	0	14
Upland Mixed Forest	54	0	0	0	0	0	0	0	0	54
Total	77	0	0	37	0	0	0	0	0	114

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	114	0	0	0	0	0	0	0	0	114
Next Step	0	0	0	58	0	0	0	0	0	58
Total	114	0	0	58	0	0	0	0	0	172



Stand Name	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:

4	32216004.49-Cut	2.2	330 - Low-Density Trees	Nonstocked		Immature	Harvest	Clearcut with Retention	42330 - Upland Fir	Even-Aged	No
<p><u>Prescription</u> Clearcut w/reserves leaving aspen, white pine and unmerchantable balsam fir and unmerchantable black spruce.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u> Buffer creek. Stand could hold another entry period. Cut this stand with hardwood stands in adjacent compartment 216 in 2022. Old next step comments: Regen survey as per work instructions.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 6 /14/2016</p>											
18	32216018-Cut	10.0	6122 - Black Spruce	Poletimber Well	101		Harvest	Seed Tree with Retention	6122 - Black Spruce	Two-Aged	No
<p><u>Prescription</u> Treatment=>Seed tree harvest leaving approximately 10 seed trees per acre.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Seeding, Machine Seed</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u> Stand currently listed as SCA-POG. Recommend removing this designation and treating with a harvest. Fairly easy access across private land to east.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2011</p>											
23	32216023-Cut	20.5	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	99	81-110	Harvest	Clearcut with Retention	4191 - Mixed Upland Deciduous with Conifer	Even-Aged	No
<p><u>Prescription</u> Treatment=>Clearcut this stand retaining some birch, aspen, and spruce. This can be accomplished by leaving a buffer strip along west edge along low area.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Seeding, Machine Seed</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u> Fairly easy access to stand from private land to the east. Can also access from south. May possibly have to be winter harvest due to access</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2011</p>											



Stand Name	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
26	32216026-Cut	3.8	6122 - Black Spruce	Poletimber Well	99	111-140	Harvest	Seed Tree with Retention	6122 - Black Spruce	Two-Aged	No
<p><u>Prescription</u> Treatment=>Seed tree harvest using 1/10 acre groups of spruce as a seed source. Create approx. 1 group per acre.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Seeding, Machine Seed</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other</u> Wet site, winter harvest.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2011</p>											
36	32216036-Cut	23.6	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	103	111-140	Harvest	Seed Tree with Retention	6129 - Mixed Coniferous Lowland Forest	Two-Aged	No
<p><u>Prescription</u> Treatment=>Seed tree harvest using groups of seedtrees approx. 1/10 of an acre in size composed of black spruce, tamarack, and cedar.</p> <p><u>Specs:</u> Leave approx. one group per acre. All trees except white pine will be cut outside of these groups.</p> <p><u>Next Step</u> Seeding, Machine Seed</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other</u> A winter harvest may be necessary as stand is fairly wet in some areas.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2011</p>											
37	32216037-Cut	54.0	4319 - Mixed Upland Forest	Poletimber Medium	111	51-80	Harvest	Clearcut with Retention	4191 - Mixed Upland Deciduous with Conifer	Even-Aged	No
<p><u>Prescription</u> Treatment=>Clearcut retaining white pine and if present any cedar or hemlock.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other</u> Very rugged terrain. Not all of stand may be harvestable.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2011</p>											

Total Treatment 114.1
Acreage Proposed:

Report 4 – Site Conditions

Gwinn Mgt. Unit
Jason Caron : Examiner

Compartment: 216
Year of Entry: 2022

Availability for Management

Total	Acres	Acres Avail	Acres
Acres	Available	With Condition	Not Available

Dominant Site Conditions

2F 2G 2H 3A 3G 3J 5E

	Availability for Management			Dominant Site Conditions	Dominant Site Conditions						
	Acres	Available	With Condition		2F	2G	2H	3A	3G	3J	5E
103	73	0	30	Aspen				27		3	
4	3	0	1	Low-Density Trees						1	
110	26	0	85	Lowland Conifers	31	8	19	19	1	3	2
24	23	0	2	Lowland Deciduous						2	0
125	125	0	0	Lowland Shrub	0			0		0	
65	16	0	49	Lowland Spruce/Fir	9			39		1	0
19	19	0	0	Marsh							
110	10	0	100	Mixed Upland Deciduous	37			63			
249	98	0	151	Northern Hardwood	17			134		0	0
29	0	0	29	Paper Birch			19	9			
94	57	0	37	Upland Mixed Forest	25		6			6	0
55	0	0	55	Upland Spruce/Fir	42					13	
2	2	0	0	Water							
989	452		537	Total Forested Acres	160	8	45	292	1	28	3
	46%		54%	Relative Percent							

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

Site No.	Dominant Site Cond	Dominant Site Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	2	Unspecified	Unspecified	Unspecified	Unspecified	Unspecified
Comments:								
2	Unavailable	2F: Too steep	33	3B: Threatened, endangered, and special concern species	Unspecified	Unspecified	Unspecified	Unspecified
Comments: SCA=>Potential Old Growth. Stand is beginning to exhibit old growth characteristics, ie large diameter trees, large woody debris, etc.								

Report 4 – Site Conditions

Gwinn Mgt. Unit
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3	Unavailable	3A: Conservation Values incompatible with harvest at this time	194	3B: Threatened, endangered, and special concern species	Unspecified	Unspecified	Unspecified
Comments: ERA's are nested within this complex of stands.							
5	Unavailable	2F: Too steep	91	2E: Road needed	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Unavailable	3A: Conservation Values incompatible with harvest at this time	98	3B: Threatened, endangered, and special concern species	Unspecified	Unspecified	Unspecified
Comments:							
11	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
13	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	42	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Stand listed as POG and access is very difficult. Due to the nature of the access to this stand it would be more beneficial to allow natural succession to take place here rather than manage the stand.							

Report 4 – Site Conditions

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Compartment: 216
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14	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
15	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
16	Unavailable	3G: Other Influence zones - See comments	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
18	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
19	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
20	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
21	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Gwinn Mgt. Unit
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22	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
26	Unavailable	2F: Too steep	36	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Mgt. Unit

Compartment: #Type!

Year of Entry:



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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments



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
ERA	Ecological Reference Areas	Ecological Reference Areas (ERAs) are high quality examples of natural communities that have been identified as Element Occurrences (EOs) by the Michigan Natural Features Inventory (MNFI) within the context of their natural community classification system. Element Occurrences with viability ranks of A (Excellent) or B (Good) and a Global (G) or State (S) element (rarity) ranking of endangered (1), threatened (2), or rare (3) serve as an initial base of ERAs. They may be located upon any ownership in the State. The system is comprised of individual or associations of natural community types that are managed for restoration and maintenance of natural ecological processes and values. The public may submit recommendations for lands as ERAs using the DNR Conservation Area Recommendation Form.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																		
1	4112 - Maple, Beech, Cherry Association	Sawtimber Well	21.3	101	111-140	N/A	Stand is second growth northern hardwoods with some aspen and white birch mixed in.																																																		
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2	4191 - Mixed Upland Deciduous with Conifer	Poletimber Medium	17.8	100	51-80	N/A	A fair amount of the white birch has died due to age. Fir and sugar maple are starting to take over the understory to mid-canopy. Fir is in poorer condition due to budworm.																																																		
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3	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Medium	19.4	96	81-110	N/A																																																			
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4	330 - Low-Density Trees	Nonstocked	4.2		Immature	4139 - Aspen, Mixed Deciduous	Stand was harvested in the fall of 2018. Scattered large diameter white pine exists throughout the stand. With 3' of snow it was hard to discern how much regeneration existed. It looked as though some red maple stump sprouts and aspen was starting to regenerate.																																																		
5	4139 - Aspen, Mixed Deciduous	Sawtimber Well	27.4	101	81-110	N/A	Aspen is beginning to die out and maple is starting to become more abundant. Understory is sugar maple with some scattered balsam.																																																		
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6	4110 - Sugar Maple Association	Poletimber Well	90.7	91	81-110	N/A	Some scattered large white pine, pockets of aspen-birch (mainly on south-southwest slopes). Some areas are pole's others logs. Basal area quite varied. Some ravines exist throughout the stand that hold water during spring and fall runoff.																																																	
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7	6220 - Alder/willow	Nonstocked	6.0			No	Area has been flooded in past.																																																	
8	6233 - Wet Meadow	Nonstocked	19.1		Unspecified	No																																																		
9	4199 - Other Mixed Upland Deciduous	Poletimber Well	45.6	99	81-110	N/A	Stand is a mix of maple, birch and aspen, heavy balsam fir on south-southwest slopes.																																																	
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10	622 - Lowland Shrub	Nonstocked	1.9			No																																																		
11	622 - Lowland Shrub	Nonstocked	46.7			No																																																		
12	4140 - Other Upland Deciduous	Poletimber Medium	9.2	95	51-80	N/A	White birch is dieing out, fir and sugar maple are beginning to take over understory and mid-canopy positions.																																																	
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Balsam Fir	10	Pole/Sapling	6																																																					
Sub-Canopy Species	Density	Avg. Height	Size																																																					
Sugar Maple	Medium	5 - 10 feet	Sapling																																																					
Balsam Fir	High	5 - 10 feet	Sapling																																																					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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13 4112 - Maple, Beech, Cherry Association Sawtimber Well 22.5 101 81-110 N/A Second growth northern hardwood stand.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	60	Log/Pole	14	101	Sugar Maple	Medium	< 5 feet	Sapling
Red Maple	23	Pole/Log	8		Balsam Fir	Medium	< 5 feet	Sapling
Yellow Birch	5	Pole/Log	10					
Paper Birch	5	Log/Pole	10					
White Spruce	5	Log/Pole	12					
White Pine	2	XLog/Log	20					

14 4319 - Mixed Upland Forest Poletimber Medium 24.9 65 51-80 N/A Rugged stand with difficult access. Stand is converting to spruce-fir-red maple. Aspen is falling apart.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	15	Pole	8		Balsam Fir	Low	10 - 20 feet	Sapling
Paper Birch	20	Log/Pole	12		Hazelnut (Beaked)	Low	< 5 feet	Tall Shrub
Quaking Aspen	11	Log/Pole	10					
Balsam Fir	28	Pole	7	65				
White Spruce	10	Pole/Log	8	123				
Black Spruce	3	Pole	6					
Tamarack	3	Log	12					
White Pine	10	XLog/Log	20					

15 6122 - Black Spruce Poletimber Medium 4.8 98 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	5	Pole	6		Red Maple	Low	< 5 feet	Sapling
Black Spruce	90	Pole	8	98	Balsam Fir	Medium	< 5 feet	Sapling
Tamarack	5	Pole	8		Tag Alder	Low	5 - 10 feet	Tall Shrub

16 6122 - Black Spruce Poletimber Well 33.9 98 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	2	Pole	8		Red Maple	Low	< 5 feet	Sapling
Black Spruce	70	Pole	9	98	Balsam Fir	Low	< 5 feet	Sapling
Northern White Cedar	5	Log/Pole	10		Tag Alder	Medium	5 - 10 feet	Tall Shrub
Tamarack	23	Log/Pole	10					

Stand contains some upland knobs that are comprised of white birch, aspen, and red maple. Black spruce is starting to show signs of decline due to age.

17 6122 - Black Spruce Poletimber Well 8.8 99 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	3	Pole	6		Red Maple	Low	< 5 feet	Sapling
Black Spruce	95	Pole	8	99	Balsam Fir	Low	< 5 feet	Sapling
Northern White Cedar	2	Log/Pole	12					

Old, mature spruce that appears to be healthy.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																							
18	6122 - Black Spruce	Poletimber Well	12.5	101		N/A	Stand is currently under contract but has not been harvested. Sale Name: O'Dovero Ranch.																																																							
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19	4191 - Mixed Upland Deciduous with Conifer	Poletimber Medium	21.0	101	51-80	N/A	Rugged terrain, stand mix of maple, birch, spruce-fir.																																																							
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20	4110 - Sugar Maple Association	Sawtimber Well	17.7	101	81-110	N/A	Second growth northern hardwoods.																																																							
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21	6124 - Lowland Spruce-Fir	Poletimber Medium	7.3	99	51-80	N/A	Lowland spruce-fir along the Peshekee River. Stand borders Peshekee River. Some portions of stand are upland (west edge).																																																							
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22	6124 - Lowland Spruce-Fir	Poletimber Medium	12.8	101	Unspecified	N/A	Stand is a mix of upland and lowland. Decided to list as a lowland stand since the majority of it is of that type.																																																							
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																							
23	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	24.2	99	81-110	N/A	Stand consists of a mix of species. Balsam fir is in very tough condition due to budworm damage. Stand is currently under contract but has not been harvested yet.																																							
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24	622 - Lowland Shrub	Nonstocked	45.4		Unspecified	No																																								
25	4193 - Birch, Aspen	Poletimber Medium	19.5	101	Unspecified	N/A																																								
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26	6122 - Black Spruce	Poletimber Well	4.5	99	111-140	N/A	Stand consists of smaller diameter black spruce. Stand is currently under contract but has not been harvested yet.																																							
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27	622 - Lowland Shrub	Nonstocked	6.7			No																																								
28	6124 - Lowland Spruce-Fir	Poletimber Well	16.8	99	Unspecified	N/A	Old growth function and characteristics beginning to take place here. Very difficult access though makes a viable sale unlikely.																																							
29	4319 - Mixed Upland Forest	Poletimber Medium	5.8	101	51-80	N/A																																								
30	4191 - Mixed Upland Deciduous with Conifer	Poletimber Medium	3.7	101	81-110	N/A																																								
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31	4136 - Aspen, Mixed Conifer	Sapling Well	36.8	19		N/A	Stand was harvested in 2002, TS#32-127-02-01. Spruce-fir seed trees left at 3-6 per acre for wildlife. Stand is regenerating to a mix of aspen, white birch, fir, tamarack and red maple. Tamarack is along west edge where it borders the low area.																																																															
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32	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Medium	7.9	101		N/A	Stand is a mix of cedar, yellow birch, balsam fir, red maple and some black spruce. The stand is a horseshoe shape as it lies at the bottom of two hills.																																																															
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33	4110 - Sugar Maple Association	Sawtimber Well	56.3	101	81-110	N/A	Harvested in 2002, T-sale #32-127-02-01. Stand contains poorer quality hardwood. Would like to get a better look at this stand during snow free conditions, if possible.																																																															
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34	6220 - Alder/willow	Nonstocked	6.3			No																																																																
35	4137 - Aspen, Birch	Sapling Well	8.6	19		N/A	Stand harvested in 2002, timbersale #32-125-02-01.																																																															
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36	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	32.7	103	111-140	N/A	Seed tree harvest, cutting some of the cedar where the density is low. Put in group seed tree retention pockets and cut everything, except the white pine, outside of the pockets.																																																				
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37	4319 - Mixed Upland Forest	Poletimber Medium	59.5	111	51-80	N/A	Tough access to this stand but cuttable. White birch and aspen are dieing out, fir and maple are well established in the understory and are beginning to fill in where gaps are being created.																																																				
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39	4110 - Sugar Maple Association	Sawtimber Well	34.2	101	81-110	N/A	Stand harvested in 2002, t-sale #32-127-02-01. Stand consists of poorer quality hardwood. Take a look at this stand once the snow melts, if possible.																																																				
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40	42340 - Upland Spruce/Fir	Poletimber Medium	13.2	101		N/A	Narrow stand left as buffer along adjacent low area and creek.																																																				
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41	622 - Lowland Shrub	Nonstocked	9.3			No																																																					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																											
42	4136 - Aspen, Mixed Conifer	Sapling Well	30.4	26	Immature	N/A	Stand cut summer 1995, permit #23-92 by Holli Forest Products. Oak was left. Stand consists of fully stocked aspen and paper birch.																																											
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43	4110 - Sugar Maple Association	Poletimber Well	5.3	101	51-80	N/A	Harvested fall of 1995, permit #23-92 by Holli Forest Products. Stand is almost all sugar maple, very few other species present. Canopy closure is right around 75%.																																											
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44	4191 - Mixed Upland Deciduous with Conifer	Sapling Medium	9.4	26	Immature	N/A	Stand cut summer of 1995 by Holli Forest Products, permit #23-92. White pine and white birch seed trees were left.																																											
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45	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Medium	2.5	101		N/A																																												
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
46	6124 - Lowland Spruce-Fir	Poletimber Well	10.7	88	Unspecified	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Maple		5	Pole	6		Balsam Fir	
Quaking Aspen		5	Log/Pole	12		Tag Alder	
Balsam Fir		30	Pole	7		Density	
White Spruce		10	Log/Pole	10		Avg. Height	
Black Spruce		30	Pole	7	88	Size	
Northern White Cedar		10	Pole/Log	8			
Tamarack		10	Log	12			
47	42340 - Upland Spruce/Fir	Poletimber Well	29.6	65	Unspecified	N/A	Spruce and fir are in poor condition due to the budworm outbreak. Stand is growing on a very rugged slope.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Maple		5	Pole	6		Balsam Fir	
Paper Birch		10	Pole/Log	8		White Spruce	
Quaking Aspen		10	Log	14		Density	
Balsam Fir		35	Pole	6	65	Avg. Height	
White Spruce		30	Log/Pole	8		Size	
Black Spruce		10	Pole	6			
48	6220 - Alder/willow	Nonstocked	2.4		Unspecified	No	
49	42340 - Upland Spruce/Fir	Poletimber Poor	12.5	58		N/A	Stand is heavy to fir of various ages and diameters. Fir, birch, and aspen are falling out of the stand. Stand is essentially a side hill leading to the lowland brush stand to the north. Fir is heavily infested with budworm and is mostly dead standing. Understory fir is also mostly dead.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Paper Birch		20	Pole/Log	8		Balsam Fir	
Quaking Aspen		10	Log	12		Density	
Balsam Fir		30	Pole	7	58	Avg. Height	
White Spruce		10	Pole	6		Size	
Black Spruce		30	Pole	6			
50	4191 - Mixed Upland Deciduous with Conifer	Poletimber Medium	13.0	90	51-80	N/A	Very rugged stand.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Maple		45	Pole	9	90	Balsam Fir	
Paper Birch		10	Pole/Log	9		Density	
Quaking Aspen		10	Log	16		Avg. Height	
Balsam Fir		20	Pole	6		Size	
White Spruce		15	Pole/Log	8			
51	500 - Water	Nonstocked	2.1			No	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																										
58	4110 - Sugar Maple Association	Poletimber Well	0.8	101	51-80	N/A	Harvested fall of 1995, permit #23-92 by Holli Forest Products. Stand is almost all sugar maple, very few other species present. Canopy closure is right around 75%.																										
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