



Compartment Review Presentation

Gladwin Forest Management Unit

Compartment 73065

Entry Year 2024

Acreage: 3,535

County: Gladwin

Management Area: Gladwin Lake Plain

Stand Examiner: Steve Nyhoff

Legal Description:

T18N, R01E, Section 13, 14, 24

T18N, R02E, Sections 7-9, 16-20

Identified Planning Goals:

Vegetation management in the Gladwin Lake Plain management area (MA) (Figure 4.32.1) will provide forest products; maintain or enhance wildlife habitat; protect areas of unique character including the Rifle River, a designated natural river; the Lame Duck Foot Access Area, a high conservation value area; several wildlife area floodings; threatened, endangered and special concern species; and provide for forest-based recreational uses. Timber management for this 10-year planning period will focus on balancing the age-class distributions for aspen and red pine. Wildlife habitat management objectives include perpetuating early-successional communities for species adapted to young forests for hunting and other wildlife-related recreation opportunity. Expected trends in this 10-year planning period will be the continued need to address illegal off-road vehicle use, trash dumping and increased recreational pressure.

Soil and topography:

The soils are about 25% moderate to well drained, 50% somewhat poorly drained, and 25% poorly to very poorly drained. Most of the somewhat poorly to well-drained soil associations have components of poorly drained to very poorly drained inclusions. Therefore, many stands are some combination of uplands and lowlands.

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

The State Land is in one contiguous block. There is one portion along M-61 that is surrounded by private land on 3 sides. This area is accessible from M-61.

The private land is in larger blocks around much of the compartment. However, the east side has some smaller parcels and small tracks. The private land is a mix of recreational properties, permanent, and seasonal residences.

Unique Natural Features:

There are records of wood turtle, Big Water Crayfish, and Ellipse Mussel in or near this compartment.

Archeological, Historical, and Cultural Features:

There is a known historical site near the compartment.

Special Management Designations or Considerations:

None

Watershed and Fisheries Considerations:

The compartment is part of the Tittabawassee River water shed. Fish Creek, the Little Molasses, and the Molasses River flow through the compartment. These are warm water fisheries.

Wildlife Habitat Considerations:

Wildlife Habitat Considerations: Compartment #65 contains a variety of habitat types suitable for many wildlife species. The upland stands in this compartment represent over 75% of the cover type. The combination of older and younger forest age classes provides year-round habitat for many wildlife species that require various conditions throughout the year. Some upland game species that use this compartment include white-tailed deer, black bear, ruffed grouse, wild turkey, and American woodcock. The compartment also includes the Molasses River drainage and associated lowlands. These lowlands support various waterfowl, reptiles, amphibians, and their predators including raccoon, bobcat, mink, and Great Blue Heron. Furbearers including beaver, mink, muskrat, black bear, bobcat, and coyote use the lowlands as corridors as well as year-round habitat. Many bird species stand to benefit from the juxtaposition of lowland and upland habitats present in the compartment. These include common yellowthroat, yellow-rumped warbler, gray catbird, redbreasted vireo, white-throated sparrow, hermit thrush, red-breasted nuthatch, ruffed grouse, and American woodcock. The compartment can be accessed via M-61.

Mineral Resource and Development Concerns and/or Restrictions

No active sand/gravel pits occur within five miles, but there is evidence of some small former pits. There may be some potential for sand & gravel within the compartment, but development potential may be inhibited by wetlands. There is no evidence of past oil & gas drilling within the compartment, and there has been no recent well permit activity in the vicinity. However, there has been recent leasing activity, and State-owned mineral rights in portions of the compartment are currently leased for oil & gas exploration and development. The Buckeye North oil field is about one mile west. Most of the fields in this region are old and relatively few producing wells remain, but there has been renewed interest in the Dundee Limestone in recent years in this area. With advances in technology, the trend has been toward fewer wells and larger drilling units. No known metallic mineral potential exists in this part of the state. The State does not own all the mineral rights within the compartment. Because the mineral estate is the dominant estate, reasonable access to the surface must be provided to private owners if they choose to explore or develop their mineral rights.

Vehicle Access:

The access is good. Birch Ridge Road, Maple Point Road, Fournier Road, Deer Road, and M-61 are county roads that provide access to the compartment. In addition, there is an extensive two-track road system that provides access to the interior of the compartment. The two-tracks are generally in fair shape.

Survey Needs:

The compartment has been heavily surveyed by both private and state surveyors. The only area that may need some survey work is the NENW and NWNE of section 18, T18N, R02E.

Recreational Facilities and Opportunities:

The Midland to Mackinac Hiking Trail run through the compartment. The tread is not well established, and it is difficult to follow. The current confidence markings are faded and difficult to see. Any harvest along the trail will need to be set up to protect the hiking trail or the current tread will be lost.

The compartment is heavily used by hunters and disperse campers. The Gladwin ORV trail is a little east of the compartment.

Fire Protection:

The fire danger is moderate in the compartment. The access is good to most of the compartment from county road, state highways and two-tracks.

Additional Compartment Information:

The following reports from the Inventory are attached:

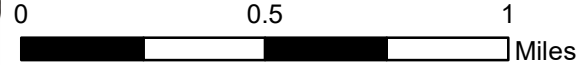
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

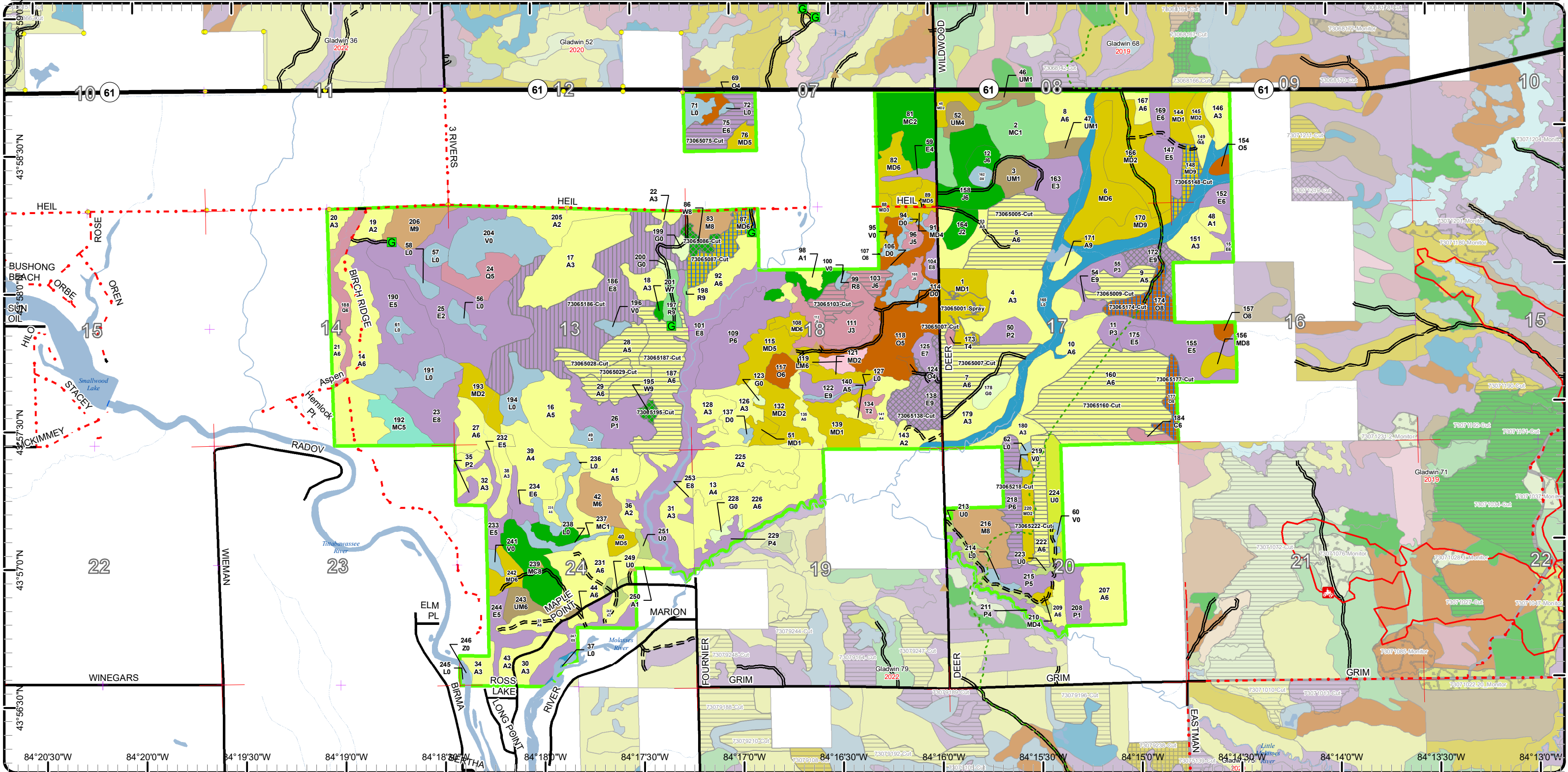
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 65
 T18N - R01E Sec. 13,14,24
 T18N - R02E Sec. 07-09, 16-20
 County: Gladwin
 Unit: Gladwin
 Mgmt Area: Gladwin Lake Plain
 YOE: 2024
 Acres: 3535.1 GIS Calculated
 Examiner: Steve Nyhoff
 Map Revised: 6/2/2022
 Map Phase: Web-Post

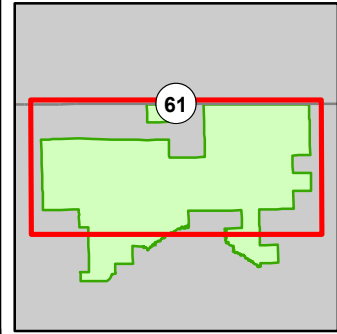
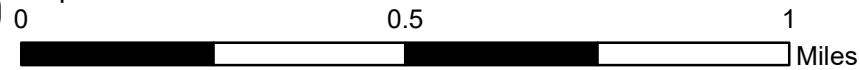


- Miris Corners
- Remonumented Section Corners
- Survey Grade Corners
- Counties
- == DNR - Secondary Forest Road
- == DNR - Forest Access Route
- == Federal / State Highway
- == Federal / State / County - Paved Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Designated Hiking Trails
- ▲ Berms
- Ⓜ Gate
- Intermittent Stream
- Island in Lake or River
- Lake/Pond
- Perennial River
- Lakes and Rivers
- ▭ Compartment Boundary
- ▨ Pesticide
- ▨ Selection (Group, Single Tree)
- ▨ Clearcut (w/Reserves)
- ▨ Seed Tree (w/Reserves)
- ▨ Shelter Wood (w/Reserves)
- ▨ 411 - Northern Hardwood
- ▨ 412 - Oak Types
- ▨ 413 - Aspen
- ▨ 419 - Mixed Upland Deciduous
- ▨ 421 - Planted Pines
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- ▨ 429 - Mixed Upland Conifers
- ▨ 430 - Upland Mixed Forest
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- ▨ 613 - Lowland Mixed Forest
- ▨ 310 - Herbaceous Openland
- ▨ 320 - Upland Shrub
- ▨ 330 - Low Density Trees
- ▨ 500 - Water
- ▨ 622 - Lowland Shrub
- ▨ 629 - Mixed Non-forested Wetland

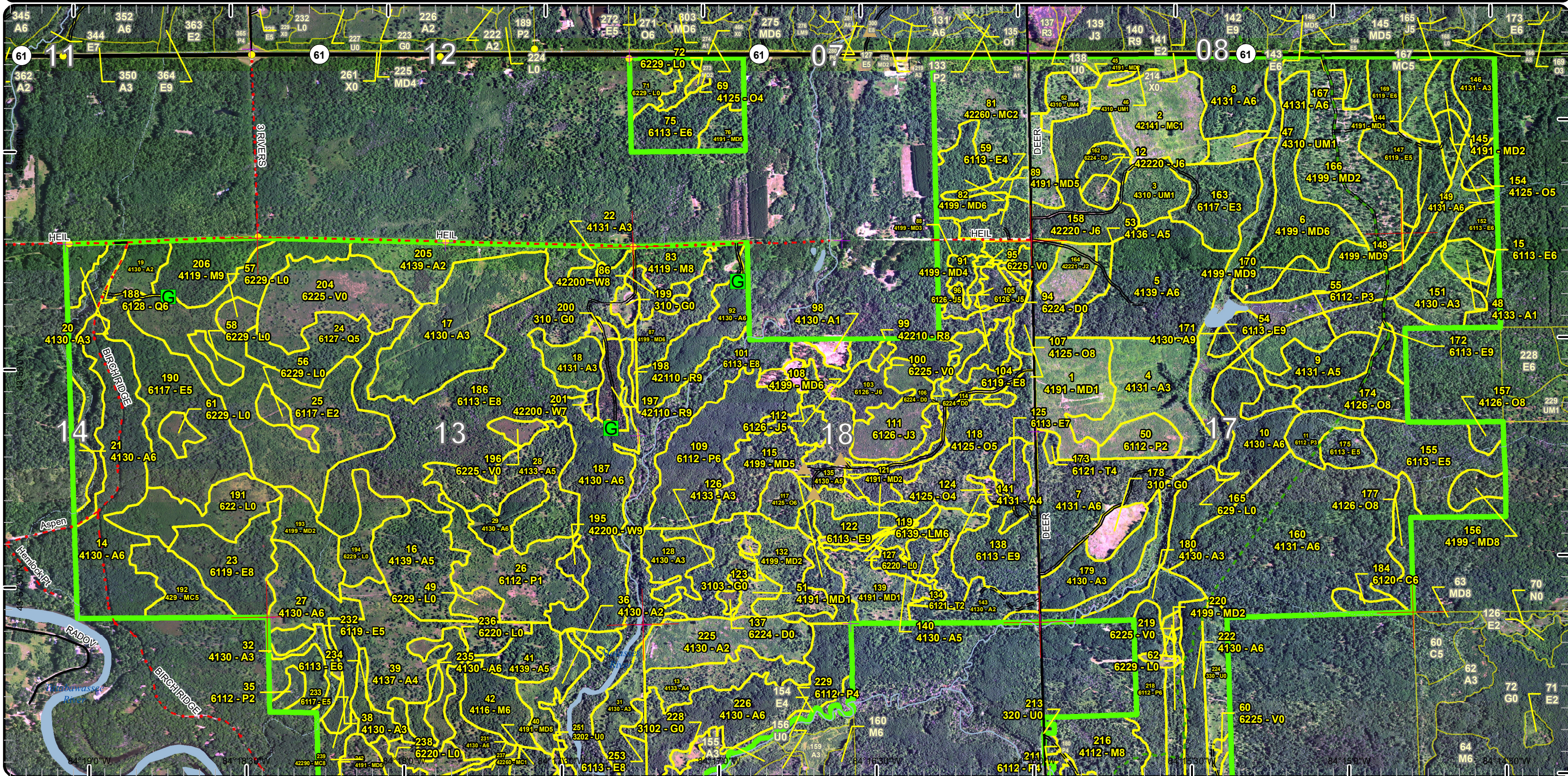


Stand Boundary Map

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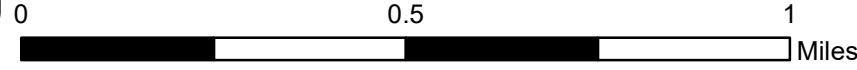


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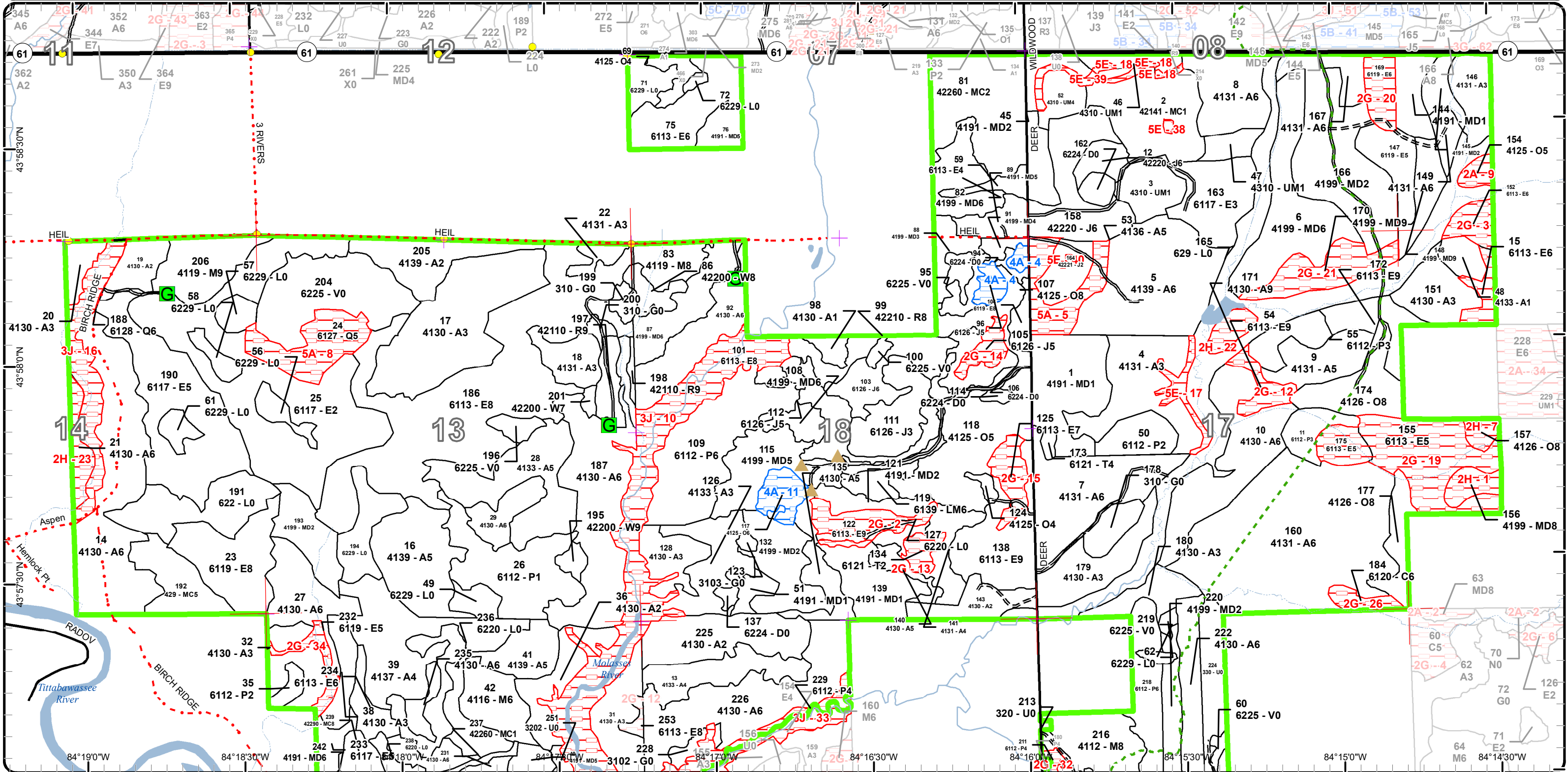


Special Conservation Areas

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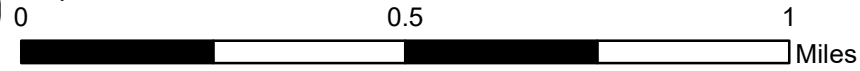


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- Available w/ Constraints
- Unavailable
- 5A: Not able to obtain desirable regeneration
- 5E: Long-Term Retention
- Stand Boundaries

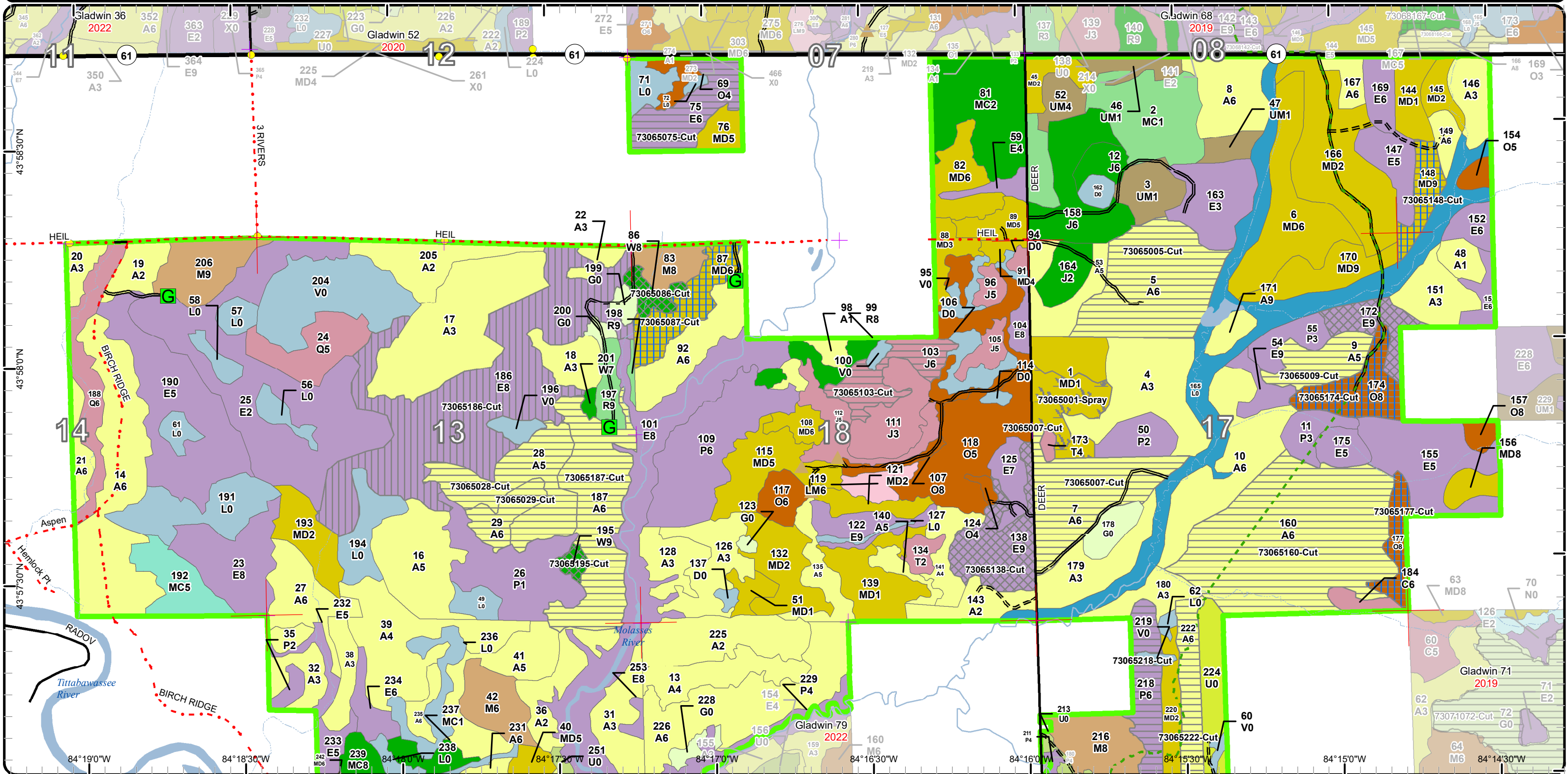


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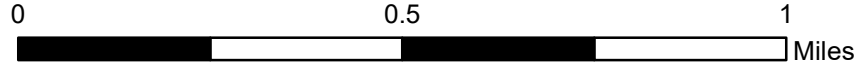


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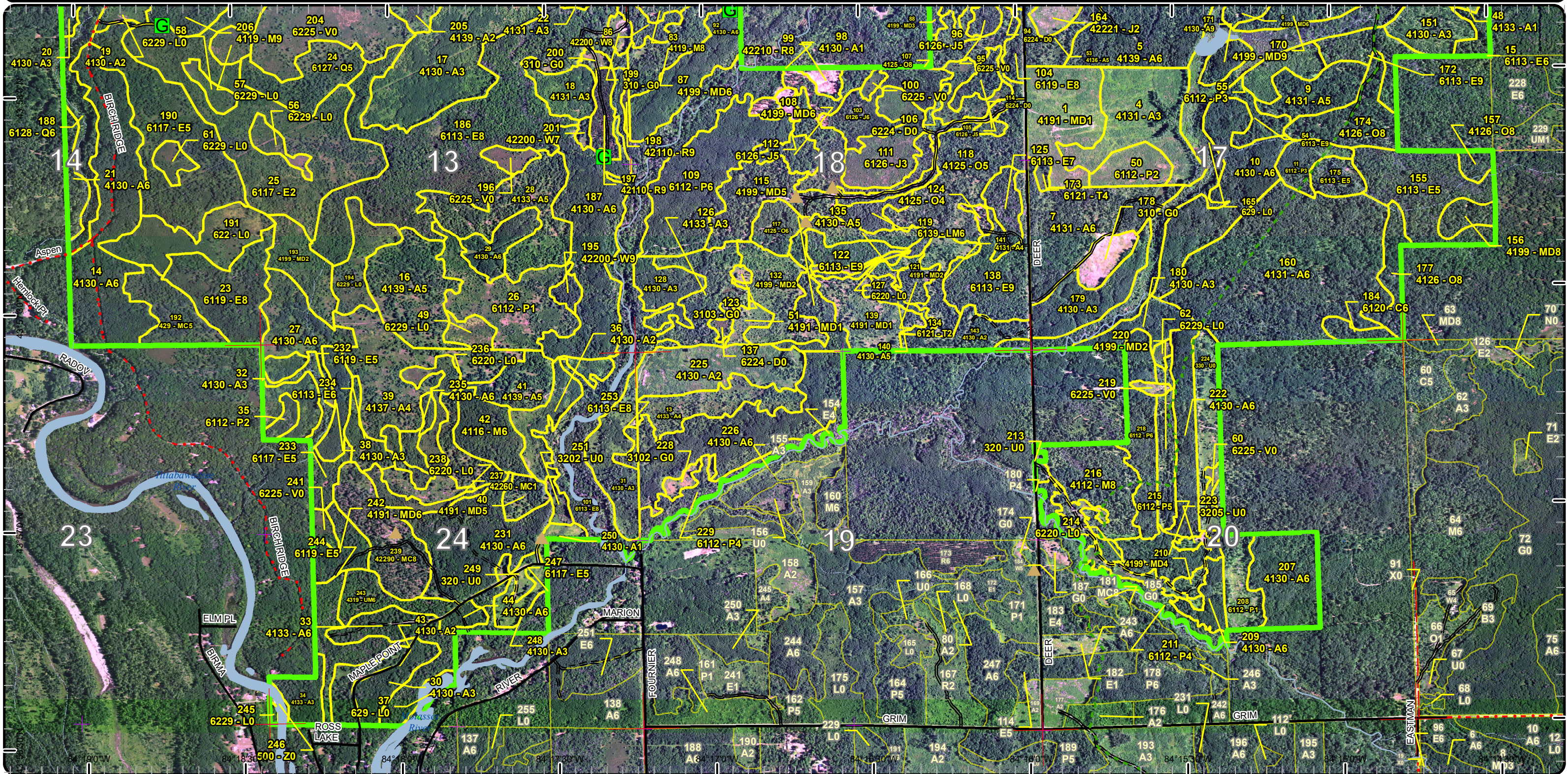


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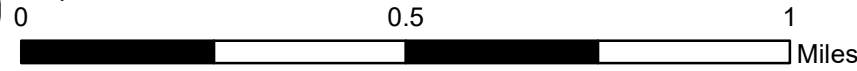


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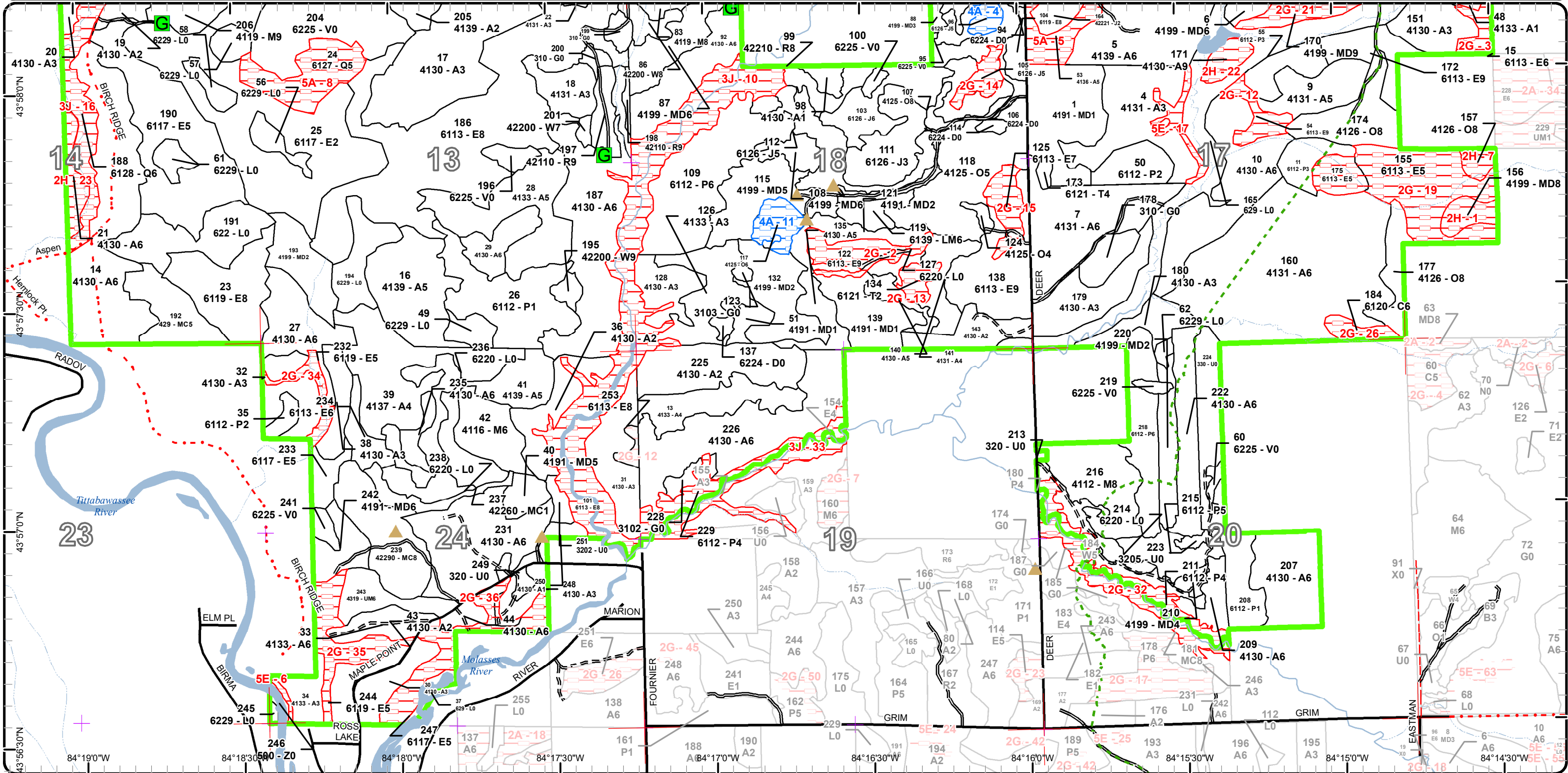


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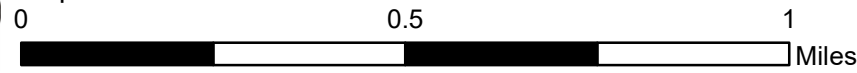


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- Available w/ Constraints
- 4A: No Markets Available for these Forest Products
- Unavailable
- 2G: Too wet (sensitive soils, does not include access issues)
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 3J: Water quality / BMPs (stream, river, or lake)
- 5A: Not able to obtain desirable regeneration
- 5E: Long-Term Retention
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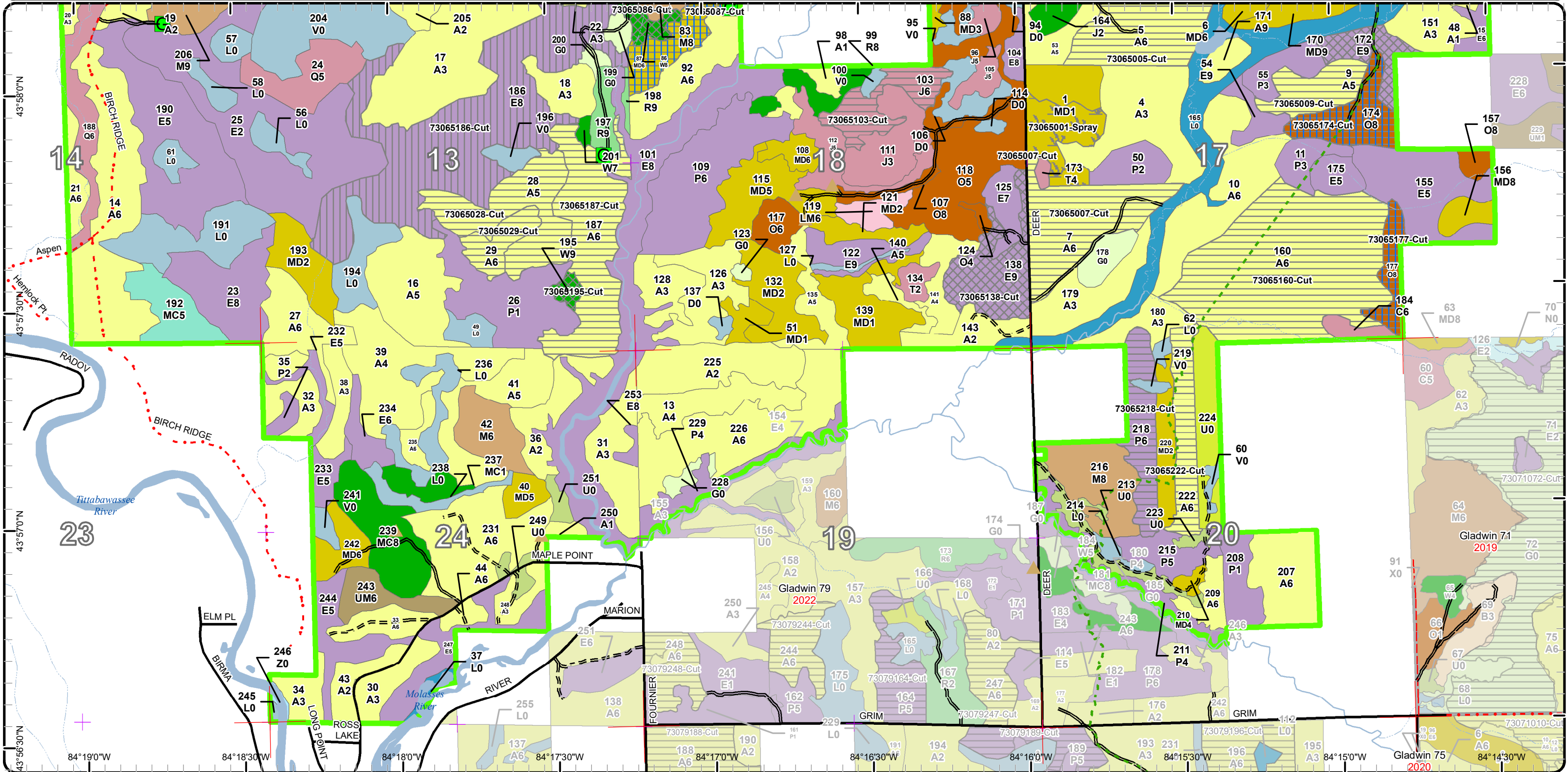


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Report 1 – Total Acres by Cover Type and Age Class



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	71	239	184	474	71	248	0	6	0	0	8	0	0	0	0	0	0	1300
Bog	60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	60
Cedar	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	5
Herbaceous Openland	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20
Jack Pine	0	11	22	0	27	49	0	13	0	0	0	0	0	0	0	0	0	0	122
Low-Density Trees	19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19
Lowland Aspen/Balsam Poplar	0	14	27	47	60	23	0	0	0	0	0	0	0	0	0	0	0	27	198
Lowland Conifers	0	0	0	0	0	0	0	0	0	0	22	0	0	0	0	0	0	23	45
Lowland Deciduous	0	0	0	138	61	0	14	5	20	17	190	0	0	0	0	0	0	235	679
Lowland Mixed Forest	0	0	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	7
Lowland Shrub	198	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	198
Mixed Upland Deciduous	0	85	19	95	138	24	0	7	12	0	26	0	0	0	0	0	0	0	406
Natural Mixed Pines	0	8	43	0	0	0	0	0	0	0	0	0	0	0	0	0	0	29	80
Northern Hardwood	0	0	0	0	18	0	0	0	0	0	12	0	0	0	0	0	0	50	80
Oak	0	0	0	4	46	0	0	0	9	12	50	0	0	0	0	0	0	2	123
Planted Mixed Pines	0	46	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	46
Red Pine	0	0	0	0	0	0	0	10	10	0	0	0	0	0	0	0	0	0	20
Tamarack	0	0	0	0	5	0	2	0	0	0	0	0	0	0	0	0	0	0	7
Treed Bog	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18
Upland Conifers	0	0	0	0	19	0	0	0	0	0	0	0	0	0	0	0	0	0	19
Upland Mixed Forest	0	15	0	22	0	0	0	0	0	0	0	0	0	0	0	0	0	13	50
Upland Shrub	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21
Water	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
White Pine	0	0	0	0	0	0	0	3	0	0	7	0	0	0	0	0	0	2	12
Total	339	250	350	490	855	167	264	38	57	29	307	8	0	5	0	0	0	381	3537



Report 2 – Treatment Summary

Gladwin Mgt. Unit

Year of Entry: 2024

Acres of Harvest

Compartment 65

Total Compartment Acres: 3,535

Commercial Harvest - 670
 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
Aspen	356	0	0	0	0	0	0	0	0	356
Jack Pine	19	0	0	0	0	0	0	0	0	19
Lowland Aspen/Balsam Poplar	23	0	0	0	0	0	0	0	0	23
Lowland Deciduous	25	42	0	0	129	0	0	0	0	197
Mixed Upland Deciduous	0	0	0	33	0	0	0	0	0	33
Oak	0	0	0	33	0	0	0	0	0	33
White Pine	0	10	0	0	0	0	0	0	0	10
Total	423	52	0	66	129	0	0	0	0	670

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	670	0	0	0	0	20	0	0	0	690
Next Step	0	0	78	0	0	120	775	0	0	973
Total	670	0	78	0	0	140	775	0	0	1663



Stand a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat
											Cut

Proposed Treatments:

5	73065005-Cut	56.7	4139 - Aspen, Mixed Deciduous	Poletimber Well	54	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Harvest as a clearcut with retention. The retention should be along some of the wetter drainages. The harvest will need to be done in late summer through early spring. The stand has a high-water table and soils will be too wet to harvest in the spring through early summer. Apply Gladwin grouse habitat specifications.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory); Pesticide, Skidder - Site Prep; Planting, Initial Plant</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Medium or better stocking of aspen mixed with some maple, oak, and conifers.</p> <p><u>Regen:</u></p> <p><u>Other</u> If the stand has a regeneration failure site prep with pesticide and flat plant red pine.</p> <p><u>Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											
7	73065007-Cut	42.3	4131 - Aspen, Oak	Poletimber Well	53	51-80	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Harvest the stand as a clearcut with retention. The retention should be in pockets. When harvesting leave all the jack pine tops. The harvest will need to be done during the dormancy period to promote regeneration. Apply Gladwin grouse habitat specifications.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Pesticide, Skidder - Site Prep; Monitoring, Natural Regen (Intermediate); Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Medium or better stocking of aspen mixed with pine and oak.</p> <p><u>Regen:</u></p> <p><u>Other</u> The stand may need to be site prep with pesticide then planted. The water table is high in much of the stand. The upland areas could be trenched and planted to red pine but 50% of the stand is too wet to have a successful planting of red pine. Therefore, flat plant the red pine.</p> <p><u>Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											
9	73065009-Cut	17.6	4131 - Aspen, Oak	Poletimber Medium	53	1-50	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Harvest the stand as a clearcut with retention. The retention should be placed around the wet area in the center of the stand. This will significantly reduce the harvest acres from the inventory acres. Apply Gladwin grouse habitat specifications.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Medium or better stocking of aspen, maple, and oak.</p> <p><u>Regen:</u></p> <p><u>Other</u> The access goes over Fish Creek. The crossing will need gravel to make it passable for logging trucks.</p> <p><u>Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</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
28	73065028-Cut	37.7	4133 - Aspen, Mixed Pine	Poletimber Medium	39	51-80	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription Specs:</u> Harvest as a clearcut with retention. The retention should be in pockets and situated to be counted by stand 29 and 28. Apply Gladwin grouse habitat specifications.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Medium stocking of aspen mixed with other species.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											
29	73065029-Cut	11.6	4130 - Aspen	Poletimber Well	39	51-80	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription Specs:</u> Harvest as a clearcut with retention. The retention should be in pocket and situated to apply to both stand 28 and 29. Apply Gladwin grouse habitat specifications.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Medium or better stocking of aspen.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											
75	73065075-Cut	25.0	6113 - Lowland Maple	Poletimber Well	88	51-80	Harvest	Clearcut with Retention	611 - Lowland Deciduous Forest	Even-Aged	No
<p><u>Prescription Specs:</u> Harvest the stand as a clearcut with retention. The stand does have areas that are too wet to harvest so the harvest acres will be significantly less than the inventory acres. The harvest will need to be done in dry or frozen conditions.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Medium or better stocking of mixed hardwood.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											
86	73065086-Cut	6.6	42200 - Natural White Pine	Sawtimber Medium	91	51-80	Harvest	Single Tree Selection	4220 - Natural White Pine	Uneven-Aged	No
<p><u>Prescription Specs:</u> Harvest the stand as a selection taking the density down to 70 sq. ft. The stand is bisected by a cedar/hemlock drain and not trees should be marked in the drain.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> regeneration of white pine and some hardwoods to around a medium stocking.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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87	73065087-Cut	21.1	4199 - Other Mixed Upland Deciduous	Poletimber Well	47	51-80	Harvest	Seed Tree with Retention	4199 - Other Mixed Upland Deciduous	Two-Aged	No
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Prescription Harvest the stand retaining around 30 sq. ft. of mixed tree favoring oak and white pine. in addition retain oak less than 4 inches DBH.
Specs:

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

Acceptable Medium or better stocking of oak and pine mixed with some other species.
Regen:

Other
Comment:

Site Condition:

Proposed Start Date: 10/1 /2023

103	73065103-Cut	19.3	6126 - Lowland Jack Pine	Poletimber Well	35	111-140	Harvest	Clearcut with Retention	6126 - Lowland Jack Pine	Even-Aged	No
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Prescription Harvest as a clearcut with retentions. The retention should be located protecting the wettest areas. The tops are to be left for seed. The
Specs: harvest will need to be done during dry or frozen conditions.

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

Acceptable Medium stocking of jack pine with variable density.
Regen:

Other
Comment:

Site Condition:

Proposed Start Date: 10/1 /2023

138	73065138-Cut	28.5	6113 - Lowland Maple	Sawtimber Well	71	81-110	Harvest	Group Selection	611 - Lowland Deciduous Forest	Uneven-Aged	No
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Prescription Harvest the stand as a selection by removing the aspen and marking the stand down to 80 BA. The harvest will need to be done during
Specs: frozen or dry conditions. The stand has areas that will need to be painted out because of wetness. The harvest acres will be significantly less than inventory acres.

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

Acceptable Medium stocking of lowland hardwood.
Regen:

Other
Comment:

Site Condition:

Proposed Start Date: 10/1 /2023



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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148	73065148-Cut	11.6	4199 - Other Mixed Upland Deciduous	Sawtimber Well	77	81-110	Harvest	Seed Tree with Retention	4199 - Other Mixed Upland Deciduous	Two-Aged	No
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Prescription Harvest the stand as a seed tree retaining 10-20 BA of oak and pine. The retention should be along Fish Creek as a buffer.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Medium or better stocking of oak, maple, aspen and some conifer.

Regen:

Other

Comment:

Site Condition:

Proposed Start Date: 10/1 /2023

160	73065160-Cut	115.2	4131 - Aspen, Oak	Poletimber Well	53	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
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Prescription Harvest as a clear cut with retention. The retention should be placed to protect the wetter areas. The harvest will need to be done in summer through early spring. The stand has a high-water table and will be too wet through most of the spring. Apply Gladwin grouse habitat specifications.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Medium or better stocking of aspen and oak with some maple and conifer.

Regen:

Other

Comment: The access goes over Fish Creek. The crossing will need gravel to make it passable for logging trucks.

Site Condition:

Proposed Start Date: 10/1 /2023

172	73065172-Cut	13.8	6113 - Lowland Maple	Sawtimber Well	97	81-110	Harvest	Single Tree Selection	611 - Lowland Deciduous Forest	Uneven-Aged	No
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Prescription Harvest the stand as a selection retaining 80 BA. There are portions of the stand that will need to be painted out because they are too wet.

Specs:

The harvest acres will be significantly less than the inventory acres.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Medium or better stocking of oak mixed with some maple and aspen.

Regen:

Other

Comment: The access goes over Fish Creek. The crossing will need gravel to make it passable for logging trucks. The harvest should have the Hiking trail spec.

Site Condition:

Proposed Start Date: 10/1 /2023



Stand Name	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
174	73065174-Cut	21.3	4126 - White, Black, N. Pin Oak	Sawtimber Medium	94	51-80	Harvest	Seed Tree with Retention	412 - Oak Types	Even-Aged	No
<p><u>Prescription</u> Harvest the stand as a seed tree retaining some of the healthier oak and oak less than 6" DBH.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Medium or better stocking of oak mixed with some maple and aspen.</p> <p><u>Other Comment:</u> The access goes over Fish Creek. The crossing will need gravel to make it passable for logging trucks. The stand was salvaged in the past and there is considerable advance regeneration from that harvest. The harvest should have the Hiking trail spec.</p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											
177	73065177-Cut	11.5	4126 - White, Black, N. Pin Oak	Sawtimber Medium	89	51-80	Harvest	Seed Tree with Retention	412 - Oak Types	Two-Aged	No
<p><u>Prescription</u> Harvest as a seed tree retaining 10-20 BA of oak and the oak less than 4" DBH.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Medium or better stocking of oak mixed with aspen, maple, and conifer.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											
186	73065186-Cut	129.4	6113 - Lowland Maple	Sawtimber Medium	92	51-80	Harvest	Shelterwood	611 - Lowland Deciduous Forest	Uneven-Aged	No
<p><u>Prescription</u> There are areas in the stand that will need to be painted out because they are too wet. This will significantly reduce the harvest area compared to the inventory acres. Then marking the stand reduce the density to 50 sq. ft. on the upland portions of the stand and keep the density around 80 sq. ft. on the manageable lowlands. the harvest will need to be done during dry or frozen conditions.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Medium or better stocking of hardwoods and pine.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											
187	73065187-Cut	53.5	4130 - Aspen	Poletimber Well	39	51-80	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Harvest as a clearcut with retention. The retention should be in pockets and not exceed 5% of the acres.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> medium or better stocking of aspen mixed with some oak and maple</p> <p><u>Other Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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195	73065195-Cut	3.3	42200 - Natural White Pine	Sawtimber Well	69	51-80	Harvest	Group Selection	4220 - Natural White Pine	Uneven-Aged	No
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Prescription Harvest by removing the aspen and other hardwood and mark to retain 70 BA of pine.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Medium stocking of understory of pine and hardwood.

Regen:

Other

Comment:

Site Condition:

Proposed Start Date: 10/1 /2023

218	73065218-Cut	23.4	6112 - Lowland Aspen	Poletimber Well	49	81-110	Harvest	Clearcut with Retention	6112 - Lowland Aspen	Even-Aged	No
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Prescription Harvest the stand as a clearcut with retention. The retention should be in pockets and used to protect the hiking trail. The trail protection spec is needed. In addition, the harvest should be done during dry or frozen conditions.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable medium or better stocking of lowland aspen mixed lowland deciduous.

Regen:

Other

Comment:

Site Condition:

Proposed Start Date: 10/1 /2023

222	73065222-Cut	21.0	4130 - Aspen	Poletimber Well	48	111-140	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
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Prescription Harvest as a clearcut with retention. The retention should be in pockets protecting the wetter areas and the hiking trail. Apply Gladwin grouse habitat specifications. In addition, harvest should be done during dormancy period facilitate good regeneration

Specs:

Next Step Pesticide, Skidder - Site Prep; Planting, Unfurrowed; Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Medium or better stocking of aspen mixed with some maple and oak.

Regen:

Other

Comment:

The harvest should have the Hiking trail spec. If the regeneration fails site prep and flat plant red pine and expand it into stand 224.

Site Condition:

Proposed Start Date: 10/1 /2023

Approved Treatments:

1	73065001-Spray	20.0	4191 - Mixed Upland Deciduous with Conifer	Sapling Poor	5	Immature	Pesticide	ERROR	4211 - Planted Red Pine	Even-Aged	No
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Prescription Release spray to set back hardwood compition.

Specs:

Next Step Monitoring, Artificial Regen(3yr)

Treatments:

Acceptable

Regen:

Other

Comment:

Treatment area has been trenched, rollar chopped, planted to red pine (5/30/18). And had year one regen survey completed. No replant however, needs spray release as recomened at year one regen survey.

Site Condition:



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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Proposed Start Date: 1/1/2022

Total Treatment
Acreage Proposed: 690.4

Report 4 – Site Conditions

Gladwin Mgt. Unit
Steve Nyhoff: Examiner

Compartment: 65
Year of Entry: 2024



Availability for Management

Total Acres	Acres Available	Acres Avail		Acres Not Available		Dominant Site Conditions						
		With Condition				4A	2A	2G	2H	3J	5A	5E
1302	1263	0		39	Aspen	0		1	14	0	17	7
61	61	0		0	Bog	0						
5	0	0		5	Cedar			5				
20	20	0		0	Herbaceous Openland							
121	108	7		7	Jack Pine	7		6				0
19	19	0		0	Low-Density Trees							
197	171	0		27	Lowland Aspen/Balsam Poplar			12		15		
45	0	0		45	Lowland Conifers					23	22	
679	449	0		230	Lowland Deciduous			145		84		
7	7	0		0	Lowland Mixed Forest							
198	197	0		1	Lowland Shrub			1				
404	375	0		29	Mixed Upland Deciduous	0		19	7			3
80	80	0		0	Natural Mixed Pines							
80	80	0		0	Northern Hardwood							
122	106	9		8	Oak	9	4	0	4			
46	46	0		0	Planted Mixed Pines							
20	20	0		0	Red Pine							
7	2	0		5	Tamarack			5				
18	18	0		0	Treed Bog	0		0				
19	19	0		0	Upland Conifers							
50	47	0		3	Upland Mixed Forest							3
22	22	0		0	Upland Shrub			0				
2	2	0		0	Water							
12	12	0		0	White Pine							
3,534	3,122	15		397	Total Forested Acres	15	4	195	25	122	38	13
	88%	0%		11%	Relative Percent							

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

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	7	2A: Adjacent landowner denied access	Unspecified	Unspecified	Unspecified
Comments:							

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2	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
3	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	15	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Available	4A: No Markets Available for these Forest Products	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Westernmost polygon of this stand is tamarack and shall be left for retention and diversity.							
5	Unavailable	5A: Not able to obtain desirable regeneration	17	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	5E: Long-Term Retention	1	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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8	Unavailable	5A: Not able to obtain desirable regeneration	22	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
9	Unavailable	2A: Adjacent landowner denied access	4	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	Unspecified	Unspecified	Unspecified
Comments:							
10	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	84	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments:							
11	Available	4A: No Markets Available for these Forest Products	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
12	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
13	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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14	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
15	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
16	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	23	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments:							
17	Unavailable	5E: Long-Term Retention	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments: this is retention was for the harvest involving stands 1, 4, 50							
18	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
19	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	46	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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20	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
21	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	19	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
22	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
23	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
26	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

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32	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	27	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
33	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	30	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
34	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
35	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	17	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
36	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	22	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
38	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

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39	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
40	Unavailable	5E: Long-Term Retention	1	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

Mgt. Unit

Compartment:

Year of Entry



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
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																														
1	4191 - Mixed Upland Deciduous with Conifer	Sapling Poor	33.1	5	Immature	N/A	The stand has a mixture of uplands and lowlands with undulating terrain. The stand was harvested in 2014 with the C61 Deer sale. The regeneration is moderate to low yielding a density similar to the stand before it was harvested. The stand received treatments of being trenched, roller chopped, planted to red pine (5/30/18). The planted red pine in the northern portion of the stand did not take well. This portion of the stand has a significant amount of volunteer seedlings. To treat the stand, by replanting, is not advisable because the trenches where the red pine did not take flood. It is better to leave the regeneration alone and let the natural regeneration happen in the stand. The southern half is a different story. The survival is greater, and there is competition so spraying the southern half would be beneficial. The dryer trenches have good survival of red pine.																														
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Red Pine	25	Sapling	1	6																																	
2	42141 - Planted Mixed Pine, Mixed Deciduous	Sapling Poor	46.1	4	Immature	N/A	The stand has some wet drains running through it. Overall, it is uplands. The stand was harvested in 2014 as part of C61 Deer. The harvest was a clear cut with retention. It was trenched, planted to red pine in 2018. It had year one regeneration survey done. It was fully stocked at that time. No replant or spray release was recommended. When it was re-inventoried the red pine planting appears to have failed. Many of the trenches have no red pine seedlings especially in the wetter areas. However, it does have a lot of volunteer jack pine, hybrid oak, and some red pine seedlings on the land between the trenches. There are also some pockets of quaking aspen. The overall density is moderate. There are many seedling oaks that are present but not established.																														
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Quaking Aspen	15	Sapling	1	5																																	
Jack Pine	40	Sapling	1	5																																	
3	4310 - Pine, Oak Mix	Sapling Poor	14.1	21	1-50	N/A	The stand was harvested in 2003 in M-61 Access, sale 73-035-00. The terrain is hummocky. Within the stand, there is oak and red pine seeding in and a trace of white pine and paper birch. Overall, the jack pine is at a moderately stocked level.																														
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Jack Pine	40	Sapling/Pole	4	22																																	
4	4131 - Aspen, Oak	Sapling Well	39.6	11	Immature	N/A	The stand was harvested in 2014 with the C61 Deer sale. The regeneration density goes from fully to poorly stocked. This is yielding a stand similar to what was harvested. The crown closure is on the lower end of the 75 to 100% category. The Quaking Aspen is better than in stand 50. It is about 15 to 20 feet tall instead of 6. The southeast edge of the stand is being heavily hit by beaver.																														
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
5	4139 - Aspen, Mixed Deciduous	Poletimber Well	56.7	54	81-110	N/A	The stand has a mixture of uplands and lowlands with undulating terrain. There are inclusions of wet and dry openings. There are also inclusions of swamp hardwoods. The aspen is doing best in the depressions if they're not too wet.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Quaking Aspen		45	Pole	7	54	Red Maple		
Bigtooth Aspen		10	Pole/Log	9	54	Medium		
Paper Birch		7	Sapling/Pole	4		Variable		
Black Cherry		3	Pole	6		Sapling		
Black/Red (Hybrid) Oak		15	Pole/Log	8				
Red Maple		20	Pole/Sapling	7				
6	4199 - Other Mixed Upland Deciduous	Poletimber Well	42.5	37	81-110	N/A	The ground is slightly hummocky. The stand is about 60% uplands 40% lowlands. There are several shallow drainages that flow through it. The aspen in here could be harvested but hold till the maple gets to a diameter where it is merchantable. The stand was harvested in sale 73-085-80 which was cut in 1981.	
Canopy Species		% Cover	Size Class	DBH	Age			
Red Maple		32	Pole/Sapling	6	38			
Quaking Aspen		30	Pole	7	38			
Black/Red (Hybrid) Oak		25	Pole/Sap/Log	6				
Paper Birch		5	Sapling/Pole	4				
White Oak		8	Pole/Sap/Log	6				
7	4131 - Aspen, Oak	Poletimber Well	42.4	53	51-80	N/A	The stand has a mixture of uplands and lowlands with undulating terrain. It has a trace of Tamarack, White Oak, and Red Pine.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Quaking Aspen		55	Pole	6	54	Black/Red (Hybrid) Oak		
Black/Red (Hybrid) Oak		25	Pole/Log/Sap	8		Medium		
Jack Pine		7	Pole	6		5 - 10 feet		
White Pine		5	Pole/Sapling	6		Sapling		
Red Maple		8	Pole/Sapling	6				
8	4131 - Aspen, Oak	Poletimber Well	24.9	39	51-80	N/A	The stand was harvested in 1992 in Molasses River Block, sale 17-052-90. It is a matrix of Uplands and Lowlands with the lowlands being the majority. The trees species go from bigtooth Aspen and oak in the southern portion of the stand to Quaking Aspen, paper birch, and maple near M-61. The pine in the stand is mainly along stand 2. There are inclusions of grassy openings and swamp hardwoods. The ground is hummocky. When this stand was harvested, some residual oaks were left. The site index seems to go from 45 - 65 and the habitat types goes from PVCd, PARVHa, to PARVCo. There are numerous drainages that flow into Fish Creek.	
Canopy Species		% Cover	Size Class	DBH	Age			
Red Maple		10	Pole/Sapling	5				
Paper Birch		15	Sapling/Pole	4				
Red Pine		5	Pole/Sapling	5				
Black/Red (Hybrid) Oak		20	Pole/Sapling	5				
Bigtooth Aspen		25	Pole/Sapling	5	40			
Jack Pine		10	Pole/Sapling	5				
Quaking Aspen		15	Pole/Sapling	5				
9	4131 - Aspen, Oak	Poletimber Medium	17.6	53	1-50	N/A	The stand has inclusions of upland herbaceous, lowland shrubs, and swamp hardwoods. The ground is hummocky. The stand could be treated as a clear cut retaining some oak. There are some drainages that flows into Fish Creek. Some of these will need to be painted out because they are too wet. The site index seems to go from 45 - 65 and the habitat types go from PVCd, PARVHa, to PARVCo.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Quaking Aspen		47	Pole	6	54	Black/Red (Hybrid) Oak		
Black/Red (Hybrid) Oak		30	Pole/Log	8		Medium		
Paper Birch		8	Pole/Sapling	6		5 - 10 feet		
Red Maple		15	Pole/Sapling	6		Tall Shrub		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																													
10	4130 - Aspen	Poletimber Well	41.7	45	81-110	N/A	The stand is slightly undulating and goes from uplands to lowlands.																																													
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11	6112 - Lowland Aspen	Sapling Well	9.5	20	Immature	N/A	The stand was harvested in 2001 in Creek Crossing Clearcut, sale 73-026-93. The stand is a matrix of uplands and lowlands with the lowlands being the majority. The regeneration is mixed. The aspen is consistent throughout the stand except along the north edge. This area is heavier to oak and maple. Overall, the stocking is moderate.																																													
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12	42220 - Natural Jack Pine	Poletimber Well	7.4	35	81-110	N/A	Overall, the stand is upland but there are inclusions of wet ground. The stand has filled in as the crowns have expanded. There are still some canopy gaps and trees are still seeding in. The crown closure is now around 75%. The stand is hummocky. The trees species are a mixture of jack pine, quaking aspen, and oak.																																													
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13	4133 - Aspen, Mixed Pine	Poletimber Poor	20.4	30	1-50	N/A	The terrain is hummocky. The stand gets dryer going west. The uplands to lowlands is about a 50-50 mix when the whole stand is considered.																																													
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14	4130 - Aspen	Poletimber Well	65.1	39	81-110	N/A	Birch Ridge Road runs through the stand. The terrain is slightly hummocky east of the road and undulating west, especially along the creek. The stand could be harvested as a clearcut with retention. However, the stand is vigorous so hold to the next entry year.																																													
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
15	6113 - Lowland Maple	Poletimber Well	6.7	79	81-110	N/A	The stand's topography is slightly rolling. Much of it is still wet. The ground cover is heavy to sensitive fern and cinnamon fern as well as some tag alder. It has areas of well stocked sawlog swamp hardwoods as well as areas of moderately stocked poles depending on the extent of the standing water. The habitat is PARVCo.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Black/Red (Hybrid) Oak		20	Pole/Log	9		White Pine		
White Oak		5	Log/Pole	10		Low		
Northern White Cedar		5	Pole	8		5 - 10 feet		
Bigtooth Aspen		5	Log/Pole	12		Sapling		
Red Maple		65	Pole/Log	9	80	Black/Red (Hybrid) Oak		
						Medium		
						5 - 10 feet		
						Sapling		
16	4139 - Aspen, Mixed Deciduous	Poletimber Medium	34.1	39	1-50	N/A	The stand has several drainages flowing through it. The terrain is hummocky. There are large pockets of lowland shrubs. The crown closure goes from 75% down to 15%.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
White Pine		5	Pole/Sapling	5		Deciduous Shrubs		
Red Maple		30	Pole/Sapling	5		High		
Paper Birch		10	Pole/Sapling	5		5 - 10 feet		
Quaking Aspen		50	Pole	8	39	Tall Shrub		
Black/Red (Hybrid) Oak		5	Sapling/Pole	4				
17	4130 - Aspen	Sapling Well	58.8	16	Immature	N/A	The stand was harvested in 2005. The regeneration is good. The terrain is a mixture of uplands and lowlands with the lowlands making up about 20%. There are some significant openings in the stand. The terrain is hummocky. The crown closure goes from 75% down to 15%.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Bigtooth Aspen		25	Sapling	3	16	Tag Alder		
Red Maple		10	Sapling	2		Medium		
Black/Red (Hybrid) Oak		5	Sapling	2		5 - 10 feet		
White Pine		5	Pole/Sapling	5		Tall Shrub		
Quaking Aspen		45	Sapling	2	16			
Paper Birch		10	Sapling	1				
18	4131 - Aspen, Oak	Sapling Well	12.2	16	Immature	N/A	The stand was harvested in 2005. The crown closure it goes from 50 to 100%. It averages around 90%. The terrain is hummocky. The stand has some wet inclusions.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
White Pine		2	Sapling/Pole	4		Deciduous Shrubs		
Bigtooth Aspen		35	Sapling	2	16	Medium		
Quaking Aspen		30	Sapling	2	16	5 - 10 feet		
Red Maple		8	Sapling	1		Tall Shrub		
Black/Red (Hybrid) Oak		25	Sapling	1				
19	4130 - Aspen	Sapling Medium	10.9	16	Immature	N/A	The stand was harvested in 2005. It has regenerated but there are some large openings. When it was harvested some of the large White pines were left along Heil Road. The terrain is hummocky. It has a mix of uplands and lowlands. The lowlands make up about 20 percent. The crown closure is around 70%.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Paper Birch		15	Sapling	1		Tag Alder		
Bigtooth Aspen		15	Sapling	2	16	Low		
Red Pine		2	Sapling	2		5 - 10 feet		
White Pine		10	Log/Pole/Sap	10		Sapling		
Quaking Aspen		50	Sapling	2	16	Black/Red (Hybrid) Oak		
Red Maple		8	Sapling	1		Medium		
						5 - 10 feet		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																						
20	4130 - Aspen	Sapling Well	6.9	16	Immature	N/A	The stand was harvested in 2005. The regeneration is good.																																						
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21	4130 - Aspen	Poletimber Well	8.0	104	81-110	N/A	The stand is land locked by a creek and its associated flood plain and private land.																																						
22	4131 - Aspen, Oak	Sapling Well	4.9	16	Immature	N/A	The stand was cut in 2005. Overall, the regeneration is good. The south end is sparse and there are openings. The terrain is hummocky. The stand is a mixture of uplands and lowlands with the uplands making up around 75%.																																						
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23	6119 - Mixed Lowland Deciduous Forest	Sawtimber Medium	31.1	92	81-110	N/A	The stand is made up of ridges and swales. The swales make up about 60% of the stand. The crown closure goes from 100% down to non-forested. The depressions are lowland shrubs with a medium to poorly stocked red maple sapling overstory.																																						
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24	6127 - Lowland Pine	Poletimber Medium	21.6	92	1-50	N/A	The stocking level is medium to poor. It is a mixture of uplands and lowlands with about 55% being lowlands. The aspen has a high % of rot, and the white pine is heavily weevilled and extremely limby. They have merchantable DBH. However, they have very few merchantable sticks.																																						
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25	6117 - Lowland Deciduous, Mixed Coniferous	Sapling Medium	97.4	27	Immature	N/A	The stand is a mixture of uplands and lowlands with the lowlands making up around 60%. The terrain is hummocky. The white pine is bushy looks to have been weevilled regularly in the past. There are portions of the stand if that are now lowland shrubs with a crown closure around 15%. They are less than 1 acre in size.																																						
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
26	6112 - Lowland Aspen	Sapling Poor	36.8	27	Immature	N/A	The stand is sparse. It is a mixture of uplands and lowlands with the majority being lowlands. The crown closure goes from 60% down to 10%. It averages around 35%. It appears to have a high-water table. There are also a couple of drainages that go through the stand.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Red Maple		15	Sapling/Pole	3		Deciduous Shrubs		
White Pine		15	Sapling/Pole	4		Medium		
Black/Red (Hybrid) Oak		30	Sapling	3		Low		
Quaking Aspen		40	Sapling/Pole	3	27	5 - 10 feet		
						Tall Shrub		
27	4130 - Aspen	Poletimber Well	22.0	27	Immature	N/A	The stand is a mixture of bigtooth and quaking aspen. It is mostly uplands with some lowlands. The crown closure goes from 100% down to non-forested. There is a drainage along the east side.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Quaking Aspen		85	Pole/Sapling	5	27	Deciduous Shrubs		
Red Maple		5	Sapling	4		High		
White Pine		5	Pole	8		5 - 10 feet		
Black/Red (Hybrid) Oak		5	Sapling/Pole	4		Tall Shrub		
28	4133 - Aspen, Mixed Pine	Poletimber Medium	37.7	39	51-80	N/A	The stand is hummocky with some low wet ground. The density is variable going from well to poorly stocked. The average crown closure is around 60%. The site index appears to be low, probably around 50 to 55. The white pine has been heavily weevilled. If the stand is harvested cut with stand 29. The harvest should be a clearcut with minimal retention.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Quaking Aspen		40	Pole/Sapling	5	39	Deciduous Shrubs		
Red Pine		10	Pole/Sapling	6		High		
Black/Red (Hybrid) Oak		10	Pole/Sapling	5		5 - 10 feet		
Red Maple		20	Pole/Sapling	5		Tall Shrub		
White Pine		20	Pole/Sap/Log	6				
29	4130 - Aspen	Poletimber Well	11.6	39	51-80	N/A	The stand could be harvested. The harvest should be a clearcut with minimal retention. Include stand 28 with the treatment.	
Canopy Species		% Cover	Size Class	DBH	Age			
Bigtooth Aspen		40	Pole	8				
Quaking Aspen		60	Pole	7	39			
30	4130 - Aspen	Sapling Well	12.1	26	Immature	N/A	The stand was harvested in 1995 in Maple Point, sale 73-056-92. Some of the overstory oaks and white pines were retained when the stand was harvested. The understory is heavy to witch hazel in pockets.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Quaking Aspen		70	Sapling/Pole	4	26	Red Maple		
White Pine		15	Log/Pole/Sap	12		High		
Red Maple		5	Sapling	3		High		
Black/Red (Hybrid) Oak		10	Log/Pole/Sap	10		5 - 10 feet		
						Tall Shrub		
31	4130 - Aspen	Sapling Well	21.7	15	Immature	N/A	The stand was harvested in 2006, in Three Way Harvest, sale 73-016-02. It is uplands with inclusions of lowlands. The crown closure is right around 75%. Some white pine sawlogs were retained when it was cut. There is birch and white pine seeding into the open areas.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Quaking Aspen		40	Sapling	2	16	White Pine		
White Pine		10	Log	14		Low		
Bigtooth Aspen		30	Sapling	2	16	Variable		
Paper Birch		15	Sapling	1		5 - 10 feet		
Red Maple		5	Sapling	2		Sapling		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
32	4130 - Aspen	Sapling Well	14.6	15	Immature	N/A	The stand was harvested in 2006, in Three Way Harvest, sale 73-016-02. The balsam popular is in the depressions. Overall, the stand has regenerated well with inclusions of herbaceous openings. The crown closure goes from 100% down to 30%. The terrain is generally level with some micro relief.	
Canopy Species		% Cover	Size Class	DBH	Age			
Red Maple		10	Sapling	2				
Quaking Aspen		55	Sapling	2	15			
Bigtooth Aspen		35	Sapling	3	15			
33	4133 - Aspen, Mixed Pine	Poletimber Well	10.9	34	Immature	N/A	The stand was harvested in 1987 in sale 73-082-83. The stand is a ridge. When it was harvested white pine was retained. The aspen growth among the pine is suppressed.	
Canopy Species		% Cover	Size Class	DBH	Age			
Red Maple		12	Pole/Sap/Log	5				
White Pine		35	Log/Pole/Sap	10				
Black/Red (Hybrid) Oak		5	Sapling/Pole	4				
Sub-Canopy Species		Density	Avg. Height	Size				
Witch Hazel		Medium	5 - 10 feet	Tall Shrub				
White Pine		Medium	5 - 10 feet	Sapling				
Red Pine		3	Log/Pole	12				
Quaking Aspen		45	Pole/Sapling	5	34			
34	4133 - Aspen, Mixed Pine	Sapling Well	9.5	27	1-50	N/A	The stand was harvested in 1995, in Maple Point, sale 73-056-92. The stand has regenerated well. It has become a nice pole stand. There was a narrow buffer left along the ridge top above the river on the west side of the stand. This area is only 1 acre in size.	
Canopy Species		% Cover	Size Class	DBH	Age			
Quaking Aspen		58	Sapling/Pole	4	27			
White Pine		25	Log	15				
Black/Red (Hybrid) Oak		5	Log	14				
Red Pine		2	Log/Pole	12				
Red Maple		10	Sapling/Pole	3				
35	6112 - Lowland Aspen	Sapling Medium	3.7	15	Immature	N/A	The stand was harvested in 2006, in Three Way Harvest, sale 73-016-02. The birch that was left is now dead. There is very little birch regeneration.	
Canopy Species		% Cover	Size Class	DBH	Age			
Red Maple		10	Sapling	2				
Bigtooth Aspen		30	Sapling	3	15			
Quaking Aspen		60	Sapling	3	15			
36	4130 - Aspen	Sapling Medium	18.1	15	Immature	N/A	The stand was harvested in 2006 in Three Way Harvest, sale 73-016-02. The balsam popular is in the depressions. Overall, the stand has regenerated well with inclusion of fern openings. There are several drainages that bisect the stand.	
Canopy Species		% Cover	Size Class	DBH	Age			
Quaking Aspen		20	Sapling	2				
Paper Birch		8	Sapling	2				
Choke Cherry		2	Sapling	2				
Balsam Poplar		5	Sapling	2				
Black/Red (Hybrid) Oak		5	Sapling	2				
Bigtooth Aspen		60	Sapling	3	15			
37	629 - Mixed non-forested wetland	Nonstocked	3.6		Unspecified	No	The stand was flooded before the dam went out father downstream. At the current time is a non-forested lowlands with the river flowing through it.	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																														
38	4130 - Aspen	Sapling Well	10.0	15	Immature	N/A	The balsam popular is in the depressions. Overall, the stand has regenerated well with inclusions of open land. The trail through the stand is very poor.																														
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39	4137 - Aspen, Birch	Poletimber Poor	42.6	37	1-50	N/A	The stand is sparse and has inclusions of lowlands. The lowlands are in small patches often less than 1 acre in size. The terrain is hummocky. The crown closure goes from 50% south to less than 25% north. It has an average around 30%. The stand has a low site index.																														
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Quaking Aspen	48	Pole	6	37																																	
40	4191 - Mixed Upland Deciduous with Conifer	Poletimber Medium	6.8	37	1-50	N/A	The stand has regenerated poorly and what regeneration is present is patchy. The crown closure goes from 100% to 20%. The stand is mainly uplands.																														
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Quaking Aspen	25	Pole	9	37																																	
41	4139 - Aspen, Mixed Deciduous	Poletimber Medium	25.8	37	51-80	N/A	The stand is mainly uplands with some inclusions of lowlands. The crown closure ranges from 25 to 80%. The maple is more common in the west leg and big tooth aspen in the north quarter of the stand. When the stand was harvested scattered oak and white pine were retained. If the stand is harvested cut as a clearcut with retention.																														
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42	4116 - Mixed N. Hardwood - Aspen	Poletimber Well	17.8	37	1-50	N/A	The maple in the stand is in slight depressions. The oak was left when the aspen was harvested. The stand could be harvested. if harvested include stand 41. The harvest should be a clearcut with retention.																														
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments					
43	4130 - Aspen	Sapling Medium	10.1	15	Immature	N/A	The stand was harvested in 2006, in Three Way Harvest, sale 73-016-02. The east half has regenerated well the west half regenerated poorly. Also, when the stand was harvested, all pines were left to buffer Maple Point Rd. In addition, some oak and larger white pine were left in the sale. White and red pine are seeding into the open areas, but the regeneration is low.					
Canopy Species		% Cover	Size Class		DBH	Age		Sub-Canopy Species	Density	Avg. Height	Size	
Black/Red (Hybrid) Oak		13	Log/Pole/Sap		12			White Pine		Medium	5 - 10 feet	Sapling
Quaking Aspen		70	Sapling		3	15						
White Pine		15	Log/Pole/Sap		12							
Red Pine		2	Log		12							
44	4130 - Aspen	Poletimber Well	4.1	36	51-80	N/A	The stand was harvested in 1995, in Maple Point, sale 73-056-92. Some overstory oaks and white pines were left when it was harvested. The terrain is slightly hummocky. There is an easement through the stand to private land.					
Canopy Species		% Cover	Size Class		DBH	Age						
Red Maple		10	Sapling/Pole		4							
Black/Red (Hybrid) Oak		2	Log/Pole/Sap		12							
White Pine		3	Log		12							
Quaking Aspen		85	Pole/Sapling		5	36						
45	4191 - Mixed Upland Deciduous with Conifer	Sapling Medium	9.0	25	1-50	N/A	The stand has some wet drains running through it. Overall, it is uplands. The oak increases going south. It was harvested in 2014 as part of C61 Deer. The harvest was a clear cut with retention retaining trees less than 4" DBH. It is expected to convert to an upland hardwood mixed with oak, maple, and some conifer. The area was not planted.					
Canopy Species		% Cover	Size Class		DBH	Age		Sub-Canopy Species	Density	Avg. Height	Size	
Black/Red (Hybrid) Oak		35	Sapling/Pole		4			Red Pine		Low	5 - 10 feet	Sapling
Quaking Aspen		5	Sapling/Pole		3			White Pine		Low	5 - 10 feet	Sapling
Red Pine		20	Pole/Sapling		5			Black/Red (Hybrid) Oak		Medium	5 - 10 feet	Sapling
46	4310 - Pine, Oak Mix	Sapling Poor	8.5	4	Immature	N/A	The stand was harvested in 2014 as part of C61 Deer. It has some wet drains running through it. The regeneration is variable. The western portion is poorly to moderately stocked. The stand goes to fully stocked going east. It is converting to upland hardwood mixed with conifer, mainly pine.					
Canopy Species		% Cover	Size Class		DBH	Age						
Red Pine		15	Sapling		1							
Red Maple		20	Sapling		1							
Tamarack		3	Sapling		1							
White Pine		12	Sapling		1							
Black/Red (Hybrid) Oak		25	Sapling		1	5						
Jack Pine		25	Sapling		1	5						
47	4310 - Pine, Oak Mix	Sapling Poor	6.2	4	Immature	N/A	The stand was harvested in 2014 as part of C61 Deer. The harvest was a 4" clear cut with retention. The stand is mainly uplands. It has some small pockets that are a little lower and may be wet in the spring and early summer. The regeneration is coming in. Most of the oak regeneration is less than four feet tall, so it is not established. There is also white, red, and jack pine seeding in and there are a couple of aspen clones.					
Canopy Species		% Cover	Size Class		DBH	Age						
White Pine		20	Sapling/Pole		3							
Red Pine		10	Sapling/Pole		3							
Bigtooth Aspen		30	Sapling		2	5						
Jack Pine		15	Sapling/Pole		3							
Black/Red (Hybrid) Oak		25	Sapling/Pole		3							



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																													
48	4133 - Aspen, Mixed Pine	Sapling Poor	6.7	11	Immature	N/A	The stand was final harvested to a 4" spec in 2010. It is a dryer stand. There are some inclusions of lowland. Overall, the stand did not regenerate overly well after the harvest. There are some clones of Aspen mixed with stump sprout oak and the white pine that was left. Portions of the stand are open. The habitat is PARVHa.																																													
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49	6229 - Mixed lowland shrub	Nonstocked	6.0	0		No	This area is a mix of lowland shrubs, leather leaf, and wet grass.																																													
50	6112 - Lowland Aspen	Sapling Medium	12.0	11	Immature	N/A	The stand was harvested in 2014 in C61 Deer sale. The regeneration is moderate to low yielding a density similar to what was in the stand prior to being harvested. The stand is a mixture of uplands and lowlands. The terrain is hummocky. The Aspen in the stand is not very vigorous. It is 11 years old, and it is only about 6' feet tall. The west end has seeded in very well with tamarack and Jack Pine. The rest of the stand is more of an Aspen/oak. The crown closure is closer to 50%.																																													
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51	4191 - Mixed Upland Deciduous with Conifer	Sapling Poor	5.6	21	Immature	N/A	White pine has been weevilled which is common in this compartment. They are more like tall shrubs than trees. There is significant oak regeneration in the stand. The crown closure is just below 50%.																																													
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52	4310 - Pine, Oak Mix	Poletimber Poor	8.3	25	1-50	N/A	This stand was harvested with stand 2. However, it was not planted to red pine. It also had a four-inch spec harvest on all species. The over story is oak and red pine mainly. The understory has a good mix of species of oak, maple, red pine, white pine, jack pine, and some tamarack.																																													
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53	4136 - Aspen, Mixed Conifer	Poletimber Medium	16.8	53	51-80	N/A	The stand has more openings in its crown structure than the stand to the east. It also has more conifer and less Aspen. It could be harvested but hold 10 years while the cut stand regenerate.																																																						
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54	6113 - Lowland Maple	Sawtimber Well	7.5	97	51-80	N/A	The stand is mainly low and wet with variable stocking. It is too wet to harvest near the river. It does get significantly dryer heading southeast. The upland portion could be treated as a clear cut along with stand 10.																																																						
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55	6112 - Lowland Aspen	Sapling Well	10.8	17	Immature	N/A	The stand is mainly low and wet with variable stocking. It appears to have been habitat cut. It has regenerated well. The birch is located near the river as well as the balsam poplar. The quaking aspen and oak are on the slightly dryer ground.																																																						
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56	6229 - Mixed lowland shrub	Nonstocked	5.7	0		No	This stand has some scattered trees, but the crown closure is less than 15%. The southern end is more of a wet grass type. This was one of the areas that did not regenerate with stand 25 was harvested.																																																						
57	6229 - Mixed lowland shrub	Nonstocked	5.4	0		No	This stand has some scattered trees, but the crown closure is less than 15%. This was one of the areas that did not regenerate with stand 25 was harvested.																																																						
58	6229 - Mixed lowland shrub	Nonstocked	4.8	0		No	This stand has some scattered trees, but the crown closure is less than 15%. This was one of the areas that did not regenerate with stand 25 was harvested.																																																						
59	6113 - Lowland Maple	Poletimber Poor	4.9	35	51-80	N/A	The stand was harvested in Sugartown Sale, which was cut in 1987, sale 73-057-83. It is a drainage. There was a component of ash especially near deer road that is now gone. The crown closure goes from 75% down to 25% but averages 40%.																																																						
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																						
60	6225 - Bog	Nonstocked	2.2		Immature	No	The stand is a wet depression that regenerated to lowland shrubs when stand 220 was harvested.																																																						
61	6229 - Mixed lowland shrub	Nonstocked	4.8	0		No	This area is a depression that is heavy to leather leaf. There are some scattered trees, but they have less than 15% crown closure.																																																						
62	6229 - Mixed lowland shrub	Nonstocked	1.6			No	The stand is a depression. The ground cover is leather leaf and blueberries.																																																						
69	4125 - Black, N. Pin Oak	Poletimber Poor	5.5	37	1-50	N/A	The stand has a ground cover of blueberry and bracken fern. The stand is patchy. There is a narrow strip along M-61 with a crown closure closer to 75%.																																																						
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71	6229 - Mixed lowland shrub	Nonstocked	8.2			No	The stand is a matrix of uplands and lowlands with the lowlands being around 60%. The terrain is hummocky. The stand has a high-water table. The trees here are mainly jack pine, white pine, and trembling aspen which all appear to be stunted because of the water table.																																																						
72	6229 - Mixed lowland shrub	Nonstocked	1.2			No	The stand is a slight depression that is a mix of lowland shrubs and leather leaf.																																																						
75	6113 - Lowland Maple	Poletimber Well	25.0	88	51-80	N/A	The stand is a matrix of uplands and lowlands. The uplands can be treated as a clear cut with retention. Mark some of the oversized white pine and oak to be retained. The harvest should be done during dry or frozen conditions. Some of the low areas are very wet and cannot be treated and will need to be painted out.																																																						
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76	4191 - Mixed Upland Deciduous with Conifer	Poletimber Medium	7.4	37	51-80	N/A	The white pine has been weevilled through its entire life in the stand. The terrain is hummocky. There are pockets of wet ground, but they make up less than 15% of the stand. The crown closure is closer to 50%.																																																						
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81	42260 - Natural Pine, Mixed Deciduous	Sapling Medium	43.2	11	Immature	N/A	The stand was thinned in 2006, then it was harvested as a clearcut with retention in 2010, M61 RPP Sale. The retention was red, white and jack pines. The terrain is hummocky. The stand is a matrix of uplands and lowlands, with the uplands being the majority. The crown closure is variable going from 100% down to 20%. It averages around 60%. The oak regeneration is now established. Pines are seeding into the stand.																																																							
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82	4199 - Other Mixed Upland Deciduous	Poletimber Well	17.8	35	51-80	N/A	The stand was harvested in Sugartown Sale, which was cut in 1987, sale 73-057-83. It is a little hummocky. There are pockets of lowland shrubs most are less than 1 acre in size. There is a drain going through the southern portion of the stand. It has some older Aspens which are located along the drain.																																																							
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83	4119 - Mixed Northern Hardwoods	Sawtimber Medium	11.7	90	51-80	N/A	The stand was shelterwood harvested in the summer of 2016, in Outback Mix, sale 73-023-13. The terrain has shallow microrelief and it is dissected by cedar drainage. However, most of the stand is upland. West 1/4 is lower. The drainage runs north to south and continues through stand 86.																																																							
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86	42200 - Natural White Pine	Sawtimber Medium	6.6	91	51-80	N/A	The stand could be harvested as a selection retaining 70 to 80 square feet. The stand is bisected by a Cedar-Hemlock drain. However, it is uplands overall.																																																							
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87	4199 - Other Mixed Upland Deciduous	Poletimber Well	21.1	47	51-80	N/A	The stand could be harvested as a seed tree retaining about 30 square feet. The retention should be oak and white pine. May also want to retain oak less than 4 inches at DBH.																																																							
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88	4199 - Other Mixed Upland Deciduous	Sapling Well	8.3	29	51-80	N/A	The stand was harvested in Sugartown Sale, which was cut in 1987, sale # 73-057-83. It is about 30% lowlands which is concentrated along the east edge and south of Heil Rd. The timber is larger and older here. The stand is mainly regenerating to red maple that is just starting to move into poles. There are a lot of small red maple saplings. The harvest looks like it retained oak less than 4 inches DBH. That residual oak is now pole size.																																														
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89	4191 - Mixed Upland Deciduous with Conifer	Poletimber Medium	9.7	35	1-50	N/A	The stand was harvested in Sugartown Sale, which was cut in 1987, sale 73-057-83. The stand is a mixture of species, and the density is variable.																																														
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91	4199 - Other Mixed Upland Deciduous	Poletimber Poor	3.0	35	1-50	N/A	The terrain is hummocky. The crown closure is around 35%. The stand is barely upland with numerous small wet depressions.																																														
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92	4130 - Aspen	Poletimber Well	25.5	29	51-80	N/A	The terrain is mostly uplands. The stand has a diverse shrub understory. There is a lot of down aspens. The stand looks to be self-thinning. There are several draws that bisect the stand.																																														
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94	6224 - Treed Bog	Nonstocked	1.5			No	The stand is leather leaf with some aspen, jack pine, and tamarack.																																														
95	6225 - Bog	Nonstocked	5.2			No	The stand is mainly lowland shrubs and leather leaf with some oak, aspen, and tamarack.																																														



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																					
96	6126 - Lowland Jack Pine	Poletimber Medium	6.6	60	1-50	N/A	The stand looks like it may dry out by end of summer. It could be clear cut leaving the jack pine tops. The terrain is hummocky. The harvest would have to occur in dry or frozen conditions. The pines are very branchy. Stand 111 is similar. It was successfully harvested, trenched, and seeded to jack pine in 2008.																																																					
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98	4130 - Aspen	Sapling Poor	6.8	5	Immature	N/A	The stand was final harvested in the summer 2016, in Outback Mix, sale 73-023-13-01. There is a trace of choke cherry, jack pine, cedar, hemlock, and white pine in the canopy. The understory is white pine and tag alder. The oak regeneration is not established. The terrain is hummocky and there are some very wet areas.																																																					
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99	42210 - Natural Red Pine	Sawtimber Medium	10.1	74	1-50	N/A	The stand had a shelterwood harvest in the summer 2016, Outback Mix, sale 73-023-13-01. It has an understory of maple in the eastern portion of the stand. There is also oak regeneration. However, much of it is not established.																																																					
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100	6225 - Bog	Nonstocked	1.9			No	The stand is a depression of leather leaf and lowland shrubs. There are scattered trees. The canopy closure is less than 15%.																																																					
101	6113 - Lowland Maple	Sawtimber Medium	87.8	90	51-80	N/A	The stand is the Molasses River and its associated Floodplain. The ash in the stand is gone which has lowered the crown closure to below 75%. There is also a lot of downed wood. The overstory die off and wind throw has converted portions of the stand to lowland shrubs.																																																					
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103	6126 - Lowland Jack Pine	Poletimber Well	19.3	35	111-140	N/A	The stand is wet during much of the year. The terrain is hummocky. There are some upland areas which are located along the private line. The stand could be harvested as a clearcut leaving the tops for seed. The harvest will have to be done during dry or frozen conditions. The crown closure is right around 75%.																																																					
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																											
104	6119 - Mixed Lowland Deciduous Forest	Sawtimber Medium	4.8	60	81-110	N/A	The terrain is hummocky. The stand could be harvested as a clear cut with retention. When harvesting the stand clear cut all trees within one chain of Deer Road. The retention should be marked trees towards the back side of the stand.																																											
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105	6126 - Lowland Jack Pine	Poletimber Medium	6.3	60	51-80	N/A	The stand has a ground cover of blueberry and leather leaf. The stand is hummocky and too wet to treat.																																											
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106	6224 - Treed Bog	Nonstocked	9.0			No	The stand is a treed bog with scattered tamarack, jack pine, oak, red maple, and quaking aspen.																																											
107	4125 - Black, N. Pin Oak	Sawtimber Medium	24.7	99	1-50	N/A	The oak only has around 20 BA. Leave the stand for mast and visual. The stand is seeding in with oak, red pine, and jack pine. The stand will eventually reach full stocking. The overstory is acting as an effective shelterwood.																																											
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108	4199 - Other Mixed Upland Deciduous	Poletimber Well	6.9	60	51-80	N/A	The stand has about 20% lowlands which are hummocky. The feature species is the smaller diameter oak poles. There are a few scattered older oak and white pine sawlogs.																																											
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109	6112 - Lowland Aspen	Poletimber Well	47.2	37	81-110	N/A	The stand grades down to the river from the east edge. The uplands are mainly along the east side. The soils have indicators of a high-water table. The stand could be harvested, but it is a little young (hold 10 years). When it is harvested it will need to be done during dry or frozen conditions.																																											
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																							
111	6126 - Lowland Jack Pine	Sapling Well	21.8	16	Immature	N/A	The stand was final harvested in 2005, in C65 Jack, sale 73-012-04. It was trenched and seeded with Jack Pine in 2008. It has regenerated well to jack pine with scattered red pine, oak, and maple. The terrain is hummocky. Currently the crown closure varies between 30% and 100%, it averages 80%. The amount of pine gall is low to moderate.																																							
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112	6126 - Lowland Jack Pine	Poletimber Medium	17.1	49	51-80	N/A	The stand is low and wet and has been filling in with tamarack and jack pine. The crown closure is around 50%. The terrain is hummocky. The stand is wet, but it may be treatable in late summer through frozen winter. The stand could be harvested as a clearcut leaving the tops for seed.																																							
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114	6224 - Treed Bog	Nonstocked	1.6		Immature	No	The crown closure is below 25% and above 15%. Therefore, it is a treed bog. The species in the bog are jack pine, red pine, quaking aspen, and Tamarack.																																							
115	4199 - Other Mixed Upland Deciduous	Poletimber Medium	26.4	37	51-80	N/A	The stand has a large diversity in diameters and ages. The soils are a mixture of uplands and lowlands with the uplands being the majority. The terrain has extensive micro relief.																																							
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117	4125 - Black, N. Pin Oak	Poletimber Well	9.2	70	81-110	N/A	The stand is mostly uplands consisting of some knobs and ridges along with some swales. The lowlands look like they dry out during the summer. Currently there is no standing water in the low areas. Hold the stand until more of the trees are merchantable.																																							
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118	4125 - Black, N. Pin Oak	Poletimber Medium	40.4	37	51-80	N/A	The stand is a matrix of uplands and lowlands with the uplands being a small majority. The terrain is hummocky. The stand has inclusions of lowland shrubs. Most of them are less than 1 acres. The area has had rotational burns in the past, which have probably helped the oak component but kept aspen basal area low.																																							
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																										
119	6139 - Mixed Lowland Forest	Poletimber Well	7.1	37	81-110	N/A	The soils are about 70% lowlands. However, they appear to be manageable.																																										
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121	4191 - Mixed Upland Deciduous with Conifer	Sapling Medium	11.9	24	Immature	N/A	The stand was harvested in 1996: sale 73-003-94. The terrain is hummocky. The stand is heavily rutted in places. It is also a matrix of uplands and lowlands which are about a 50 to 50 mix.																																										
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122	6113 - Lowland Maple	Sawtimber Well	12.3	95	81-110	N/A	The ash has died out lowering the crown closure and in essence doing a shelterwood treatment. Therefore, no treatment is needed this year of entry. The terrain is hummocky.																																										
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123	3103 - Rubus-Fern	Nonstocked	1.2			No	This stand is a low-density area of stand 132. It is hummocky. The crown closure is less than 15%.																																										
124	4125 - Black, N. Pin Oak	Poletimber Poor	1.9	22	Immature	N/A	The stand has a crown closure of around 25%. It has seeded in with oak and pine in the open areas increasing the crowned closure. There are some mature trees, but they are scattered.																																										
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125	6113 - Lowland Maple	Sawtimber Poor	9.7	71	1-50	N/A	The stand has a drain running through it. The ash in the stand is dead lowering the crown closure. Overall, it is too wet to harvest.																																										
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
126	4133 - Aspen, Mixed Pine	Sapling Well	22.4	21	Immature	N/A	The stand is a mixture of uplands and lowlands with the lowlands making up 30%. The uplands have regenerated to well stocked aspen. The lowlands are variable going from non-stocked to moderately stocked. There is a pocket of white pine sawlogs toward the south end.
Canopy Species		% Cover	Size Class	DBH	Age		
Red Maple		7	Sapling	2			
Quaking Aspen		51	Sapling/Pole	4	22		
Black/Red (Hybrid) Oak		2	Sapling	2			
White Pine		40	Sapling/Pole	4			
127	6220 - Alder/willow	Nonstocked	2.0			No	The stand is part of a drainage. It is heavy to willow shrubs over marsh grass.
128	4130 - Aspen	Sapling Well	13.6	21	Immature	N/A	There are a couple of drainages that flow through the stand. This area has regenerated well.
Canopy Species		% Cover	Size Class	DBH	Age		
Red Maple		6	Sapling/Pole	4			
Black/Red (Hybrid) Oak		2	Sapling/Pole	4			
Bigtooth Aspen		92	Sapling/Pole	3	22		
Sub-Canopy Species		Density	Avg. Height	Size			
Choke Cherry		Low	5 - 10 feet	Sapling			
White Pine		Low	5 - 10 feet	Sapling			
132	4199 - Other Mixed Upland Deciduous	Sapling Medium	22.6	27	Immature	N/A	The crown closure is now closer to 70%. There are areas where the crown closure is 100% and other areas where it is less than 15%. The terrain is hummocky. The white pine has been heavily weevilled. There are wet areas at the northeast and southwest ends. The 1998 imagery shows the stand had been harvested.
Canopy Species		% Cover	Size Class	DBH	Age		
Northern Pin Oak		30	Sapling	2	28		
Quaking Aspen		25	Sapling	3	28		
White Pine		15	Sapling	3			
Red Maple		20	Sapling	2			
Paper Birch		10	Sapling	2			
134	6121 - Tamarack	Sapling Medium	5.0	37	1-50	N/A	The stand is continually seeding in with tamarack. The crown closure is close to 50%. The stand is wet and hummocky.
Canopy Species		% Cover	Size Class	DBH	Age		
Quaking Aspen		8	Pole/Sapling	5			
Northern Pin Oak		6	Sapling/Pole	4			
Red Maple		8	Sapling/Pole	4			
Tamarack		75	Sapling/Pole	4	37		
Paper Birch		3	Sapling	3			
Sub-Canopy Species		Density	Avg. Height	Size			
Deciduous Shrubs		Full	5 - 10 feet	Tall Shrub			
135	4130 - Aspen	Poletimber Medium	12.8	27		N/A	The 1998 imagery shows the stand was harvested the same time as stand 132 and 139. There is a drainage that flows through the stand that consist of swamp hardwoods that were not harvested. The ash along the drainage is gone. The edges of the stand have regenerated well.
Canopy Species		% Cover	Size Class	DBH	Age		
Red Maple		15	Pole/Sap/Log	8	95		
Black/Red (Hybrid) Oak		15	Pole/Sapling	6	28		
Quaking Aspen		70	Pole/Sapling	5	28		
Sub-Canopy Species		Density	Avg. Height	Size			
Tag Alder		Medium	10 - 20 feet	Tall Shrub			
Willow spp.		Low	5 - 10 feet	Tall Shrub			
137	6224 - Treed Bog	Nonstocked	1.7			No	The stand has been filling in with white pine. The crown closure is now right around 15%. The ground cover is blueberry and leather leaf.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
138	6113 - Lowland Maple	Sawtimber Well	28.5	71	81-110	N/A	The stand is a matrix of uplands and lowlands with the lowlands being the majority. The terrain is hummocky and there is standing water. The stand could be treated in a dry or frozen condition by doing a species removal of aspen and birch and trying to keep the BA around 80.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Northern Pin Oak		15	Pole/Log/Sap	9		Red Maple		
Quaking Aspen		10	Log/Pole	13		Density		
Paper Birch		10	Pole/Sapling	6		Avg. Height		
Red Maple		65	Log/Pole	13	72	Size		
						Northern Pin Oak		
						Low		
						10 - 20 feet		
						Sapling		
139	4191 - Mixed Upland Deciduous with Conifer	Sapling Poor	20.2	27	Immature	N/A	The stand is a matrix of uplands and lowlands. The lowlands make up about 35% of the stand. There are large areas where the crown closure is below 15%, and there are areas where it is at 100%. The average is around 30%. The 1998 imagery shows the stand had been harvested.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Red Maple		5	Sapling	2		Deciduous Shrubs		
Quaking Aspen		35	Sapling	3	28	Density		
Black/Red (Hybrid) Oak		35	Sapling/Pole	3	28	Avg. Height		
White Pine		10	Sapling/Pole	3		Size		
Red Pine		10	Sapling/Pole	3		Tall Shrub		
						High		
						5 - 10 feet		
140	4130 - Aspen	Poletimber Medium	5.6	37	51-80	N/A	The stand is on a ridge. It looks like it could be converted to a red pine site in the future when the current stand is harvested.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Bigtooth Aspen		75	Pole	7	38	Witch Hazel		
Black/Red (Hybrid) Oak		15	Pole	8		Density		
Red Maple		7	Pole/Sapling	6		Avg. Height		
Paper Birch		3	Sapling/Pole	4		Size		
						Low		
						10 - 20 feet		
						Tall Shrub		
						Low		
						5 - 10 feet		
						Sapling		
141	4131 - Aspen, Oak	Poletimber Poor	11.9	37	1-50	N/A	The terrain is hummocky. The density is variable going from fully to non-stocked.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Red Maple		5	Sapling/Pole	4				
Quaking Aspen		70	Pole/Sapling	5	38			
Choke Cherry		2	Sapling	3				
Black/Red (Hybrid) Oak		20	Log/Pole/Sap	10				
Tamarack		3	Sapling	4				
143	4130 - Aspen	Sapling Medium	13.6	24	1-50	N/A	The stand was harvested in 1997 in Boundary Line Aspen, sale 73-035-95. It has some steep topography associated with the drainages that run through the stand. The crown closure is near 100% at the east end and drops to between 50 and 75% at the west end. The average crown closure is around 65%.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Choke Cherry		5	Sapling	2				
Red Maple		3	Pole/Sap/Log	6				
Black/Red (Hybrid) Oak		12	Log/Pole	10				
Bigtooth Aspen		80	Sapling/Pole	4	25			



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144	4191 - Mixed Upland Deciduous with Conifer	Sapling Poor	11.8	13	Immature	N/A	The stand was final harvested in March 2008. The stand is high and dry. The trees are sparse. There is some young oak that's not established scattered throughout the stand. The terrain is hummocky and there are pockets of leather leaf. The habitat type is PARVHa.																																																															
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145	4191 - Mixed Upland Deciduous with Conifer	Sapling Medium	7.2	13	Immature	N/A	The stand was final harvested in March 2008. It is along Fish Creek. There's a drainage that runs along the east side that is wet. The stand is seeding in with a lot of white pine and birch in the open areas. There is significant oak regeneration, but it is not established. The habitat type is a mix of PARVVb and PARVCo.																																																															
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Black/Red (Hybrid) Oak	40	Sapling	2	14																																																																		
146	4131 - Aspen, Oak	Sapling Well	13.4	24	Immature	N/A	The stand was harvested in 1997. The cut retained the oak 4" DBH and less. The stand has a mix of regeneration. The open areas continue to seed in with white pine. There are areas of well stocked aspen and areas of moderately stocked oak/aspen. Overall, the stand is an aspen type. The habitat type is PARVHa.																																																															
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147	6119 - Mixed Lowland Deciduous Forest	Poletimber Medium	14.1	51	51-80	N/A	There is a drainage through the center of the stand that is mainly lowland shrubs. The edges of the stand are dryer but they're not ready to be harvested at the current time. Currently the stand is an medium stocked lowland hardwood over lowland shrubs. The habitat type is PARVCo.																																																															
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148	4199 - Other Mixed Upland Deciduous	Sawtimber Well	11.6	77	81-110	N/A	The aspen in the stand is declining and needs to be harvested. The harvest should be a seed tree retaining 10-20 BA. The retention should favor white and red oak. The habitat type is PARVHa.																																																															
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
149	4131 - Aspen, Oak	Poletimber Well	5.7	24	Immature	N/A	The stand is a mix of regeneration. It is predominantly aspen but there are areas of jack pine and oak toward the center. The harvest appears to have retained the oak 6" DBH and less. Some of the retained oaks are now becoming logs. The habitat type is PARVHa.	
Canopy Species		% Cover	Size Class	DBH	Age			
Quaking Aspen		60	Pole/Sapling	5	25			
Black/Red (Hybrid) Oak		30	Pole/Sap/Log	7				
Jack Pine		10	Sapling/Pole	4				
151	4130 - Aspen	Sapling Well	17.1	11	Immature	N/A	The stand was clear cut to 4" DBH in 2010. Most of the stand has regenerated to a fully stocked aspen type. However, there is a portion in the center of the stand that is oak/pine and has a crown closure below 75%. Overall, the stand is looking very good. The habitat type is PARVHa.	
Canopy Species		% Cover	Size Class	DBH	Age			
Black/Red (Hybrid) Oak		7	Sapling	1				
Black/Red (Hybrid) Oak		1	Log	16				
Bigtooth Aspen		66	Sapling	2	12			
Quaking Aspen		15	Sapling	2	12			
Red Maple		10	Sapling	2				
White Oak		1	Log	16				
152	6113 - Lowland Maple	Poletimber Well	7.8	79	81-110	N/A	The stand is a matrix of lowlands and uplands with the lowlands being the majority. The uplands are knobs, and the lowlands are swales. It has poor accessibility. The habitat type is PARVCo.	
Canopy Species		% Cover	Size Class	DBH	Age			
White Oak		10	Pole/Log	9				
Black/Red (Hybrid) Oak		20	Pole/Log	9				
Red Maple		70	Log/Pole	10	80			
154	4125 - Black, N. Pin Oak	Poletimber Medium	3.9	24	1-50	N/A	The stand is a poorly stocked oak pole stand. It is a knob that is surrounded by Fish Creek and private land making it inaccessible. The main tree species is hybrid oak. There is a little bit of service berry and some oak regeneration.	
Canopy Species		% Cover	Size Class	DBH	Age			
Black/Red (Hybrid) Oak		80	Pole/Log/Sap	7	25			
White Oak		10	Pole/Log/Sap	7				
Red Maple		10	Log/Pole/Sap	10				
155	6113 - Lowland Maple	Poletimber Medium	38.0	90	81-110	N/A	The stand has some broad base drainages running through it. They have a component of cedar. Overall, the stand appears to be too wet to treat. All the ash is gone. There are some inclusions of uplands, but they make up about 20%. These areas are only marginally uplands. The ground cover is heavy to sensitive and cinnamon ferns. The habitat type is PARVCo.	
Canopy Species		% Cover	Size Class	DBH	Age			
Northern White Cedar		5	Pole	7	185			
Quaking Aspen		5	Log	12				
Red Maple		90	Pole/Log/Sap	9	91			
Sub-Canopy Species		Density	Avg. Height	Size				
Serviceberry (Juneberry)		Trace	10 - 20 feet	Sapling				
Musclewood/Hornbeam		Low	5 - 10 feet	Sapling				
Red Maple		Medium	5 - 10 feet	Sapling				
Green Ash		Medium	10 - 20 feet	Sapling				
156	4199 - Other Mixed Upland Deciduous	Sawtimber Medium	6.8	92	1-50	N/A	The stand is slightly undulating. There is mortality in the oak and aspen. There are also inclusions of lowlands among the knobs and ridges. If access could be gained the stand should be clear-cut retaining 10 BA of oak. The Habitat type is PARVHa.	
Canopy Species		% Cover	Size Class	DBH	Age			
Red Maple		12	Pole/Log	8				
Quaking Aspen		38	Log	12	93			
Black/Red (Hybrid) Oak		40	Log/Pole	12	93			
White Oak		10	Log/Pole	12				
Sub-Canopy Species		Density	Avg. Height	Size				
Serviceberry (Juneberry)		Medium	5 - 10 feet	Sapling				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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157 4126 - White, Black, N. Pin Oak Sawtimber Medium 4.1 92 51-80 N/A The stand is mainly a ridge. Much of the overstory oak is declining. There is a strong component of pole oak and maple in the understory. If access could be gained harvest the stand as a seed tree retaining 10-20 BA of oak. The Habitat is PARVHa.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	35	Pole	6		Serviceberry (Juneberry)	Medium	5 - 10 feet	Sapling
Black/Red (Hybrid) Oak	45	Log/Pole	10	93				
White Oak	20	Log/Pole	10					

158 42220 - Natural Jack Pine Poletimber Well 32.2 41 81-110 N/A The stand was harvested in 1992 in Molasses River Block, sale 17-052-90. The stand has very branchy jack pine, mixed with oak, maple, tamarack, and red pine. There are areas in the stand that have good oak regeneration. The terrain is slightly hummocky. There are several small pockets of lowland which makes up around 15% of the stand.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Jack Pine	60	Pole/Sapling	6	42	Red Pine	Low	10 - 20 feet	Sapling
Red Pine	19	Pole/Sapling	5		Black/Red (Hybrid) Oak	Low	10 - 20 feet	Sapling
Black/Red (Hybrid) Oak	15	Sapling/Pole	4					
Red Maple	3	Sapling/Pole	4					
White Pine	3	Sapling/Pole	4					

160 4131 - Aspen, Oak Poletimber Well 115.2 53 81-110 N/A The crown closure is variable going from 30% up to 100%. The terrain is slightly hummocky. There are low pockets, but they make up only about 15%. The stand can be harvested as a clear cut. There are drainages in the stand that may need to be painted out because they are too wet. The site index seems to go from 45 - 65 and the habitat types go from PVCd, PARVHa, to PARVCo. There are numerous drainages that flow into Fish Creek.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	6	Pole/Sapling	6		White Oak	Medium	Variable	Sapling
Quaking Aspen	45	Pole	7	54	Black/Red (Hybrid) Oak	Medium	Variable	Sapling
Bigtooth Aspen	10	Pole	8	54	White Pine	Medium	Variable	Sapling
Choke Cherry	4	Pole/Sapling	5					
White Oak	15	Pole/Sap/Log	7					
Black/Red (Hybrid) Oak	15	Pole/Sap/Log	6					
White Pine	3	Pole/Sap/Log	5					
Black Cherry	2	Pole/Sap/Log	6					

162 6224 - Treed Bog Nonstocked 4.3 Immature No This is a leather leaf bog in a depression with some jack pine, tamarack, red pine, and maple. Most of the trees are around the perimeter.

163 6117 - Lowland Deciduous, Mixed Coniferous Sapling Well 25.6 29 Immature N/A The stand was harvested in 1992 in Molasses River Block, sale 17-052-90. It is a mixture of Uplands and Lowlands at about a 50/50 mix. The Birch is concentrated in the broad base drains that flow through the stand. There is a drainage in the north 1/2 and low depressions in the south end. Scattered around the stand are nice pockets of aspen and swamp hardwoods.

Canopy Species	% Cover	Size Class	DBH	Age
Jack Pine	15	Pole/Sapling	5	
Red Maple	15	Sapling/Pole	4	
White Pine	3	Pole/Sapling	5	
Black/Red (Hybrid) Oak	29	Sapling/Pole	4	30
Quaking Aspen	15	Pole/Sapling	5	30
Paper Birch	20	Sapling/Pole	3	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																													
164	42221 - Natural Jack Pine, Mixed Deciduous	Sapling Medium	10.9	7	Immature	N/A	The stand was harvested in 2014 as part of C61 Deer. It has come in very well. It grades from high density Jack Pine, Oak down to a moderate density of mixed aspen and hardwoods at the south end.																																													
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Sugar Maple	35	Sapling	1																																																	
165	629 - Mixed non-forested wetland	Nonstocked	86.3			No	This stand is in the river corridor of Fish Creek. It is lowland shrubs, for the most part. There are areas of swamp hardwoods. These go from saplings to sawlogs, but they're scattered and concentrated on the slopes leading down to the flood plain. The soils under the stand are Evert-Winterfield. The creek is in a well-defined valley. There are areas of newer beaver activity present.																																													
166	4199 - Other Mixed Upland Deciduous	Sapling Medium	51.8	7	Immature	N/A	The stand was shelter wood harvested in 1981. It was also harvested in 2013 in 61 -Deer, sale 73-001-10. That was harvested as a 4-inch spec clearcut with 10-20 BA marked to be retained. The stand has regenerated well for an oak type. The crown closure goes from a 100% down to below 50%. Overall, it is a moderately stock stand. There is a lot of small oak that is not established as well as scattered open areas. There is also white pine and red pine seeding in. The north edge of the stand, along M-61, is wetter.																																													
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167	4131 - Aspen, Oak	Poletimber Well	6.8	18	Immature	N/A	The stand was harvested in 2003 in M-61 Access, sale 73-035-00. When it was harvested, the oak and maple were retained. The stand has about 40 BA of oak and maple logs. The terrain is undulating. The aspen is concentrated in the northern half of the stand along with the red maple.																																													
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169	6119 - Mixed Lowland Deciduous Forest	Poletimber Well	9.6	71	81-110	N/A	The stand was harvested in 2003 in M-61 Access, sale 73-035-00. It is low and wet along the base of stand 167 but becomes a mixture of uplands and lowlands going east. Overall, the lowlands make up most of the stand. The stand could be harvested as a seed tree retaining around 20 BA.																																													
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																						
170	4199 - Other Mixed Upland Deciduous	Sawtimber Well	19.1	97	81-110	N/A	The stand was harvested in 2003 in M-61 Access, sale 73-035-00. Portions of the stand are very wet and were not to be harvested. The terrain is hummocky. There is also a ridge along Fish Creek that has a depression behind it. Most of the stand is in the depression.																																						
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171	4130 - Aspen	Sawtimber Well	6.1	78	111-140	N/A	The stand is mature, but it is an island surrounded by Fish Creek and its flood plain. There is also some newer beaver flooding that reduces the access even further. The stand still looks good. There is some decline in the Aspen. The stand should be habitat cut.																																						
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172	6113 - Lowland Maple	Sawtimber Well	13.8	97	81-110	N/A	The stand is somewhat undulating. There are several drainages flowing through it. The stand is manageable. It could be harvested as a selection retaining about 80 BA. It would have to be done during dry or frozen conditions.																																						
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173	6121 - Tamarack	Poletimber Poor	1.7	53	81-110	N/A	This stand is a lowland shrub type with scattered swamp hardwoods, tamarack, and jack pine along the perimeter. The center of the stand is non-forested.																																						
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174	4126 - White, Black, N. Pin Oak	Sawtimber Medium	21.3	94	51-80	N/A	The stand was salvaged in 2002 in sale 73-034-02. It is now a sparse oak sawlog over oak regeneration. Currently the stand needs to be harvested as a seed tree retaining around 20 BA. The retention should favor White Oak and the better-quality hybrid Oak. The cut should remove all Aspen, Birch, Maple, and Oak above 6" or 4" DBH.																																						
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175	6113 - Lowland Maple	Poletimber Medium	8.0	93	51-80	N/A	This area is low and wet, and it would be difficult to regenerate if it was cut. The ash in the stand is gone. The crown closure is now closer to 50%. There are some areas that are manageable but most of the stand is too wet.																																						
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177	4126 - White, Black, N. Pin Oak	Sawtimber Medium	11.5	89	51-80	N/A	The stand is undulating. It has an overstory of oak with good regeneration in the under story. The stand could be harvested as a seed tree retaining 10 to 20 BA of Oak. Retain the oak 4 inches DBH and smaller. The crown closure is closer to 75%.																																										
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178	310 - Herbaceous Openland	Nonstocked	8.8	2021		No	The stand has been trenched, planted to red pine (5/30/18). The soils under the stand go from AuGres to Grayling to Rubicon. The planted red pine is still doing good. 80% is still free to grow so no treatments are needed.																																										
179	4130 - Aspen	Sapling Well	22.1	29	Immature	N/A	The stand was harvested in 1993 in sale 73-020-92, Fish Creek Aspen. The stand is rolling and most of it is above the Fish Creek flood plain. There are several springs in the stand, mainly on the lower slopes. It is a mixture of bigtooth aspen and oak on the upper slopes and areas of maple, quaking aspen, and tamarack on the terraces and on the lower slopes.																																										
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180	4130 - Aspen	Sapling Well	11.7	29	Immature	N/A	The stand was harvested in 1992, in Fish Creek Sale, 73-005-92. It is fully stocked with aspen which is mixed with oak and maple. The stand is on a ridge. There are some inclusions of lowlands as well as some drainages. The north edge has some old beaver activity.																																										
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184	6120 - Lowland Cedar	Poletimber Well	4.9	121	171-200	N/A	The terrain is hummocky, and it gets wetter going east. A creek runs through the stand. There is significant down wood in the stand.																																										
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186	6113 - Lowland Maple	Sawtimber Medium	129.4	92	51-80	N/A	The stand is variable. The crown closure goes from 100% all the way down to 25%. The ash and most of the aspen in the stand is dead and down. In areas where the crown closure is low there is good red maple regeneration. The stand has areas that are too wet to harvest but there are numerous places where a harvest is needed. When harvesting do a selection taking the upland areas down to 50 sq. ft, and the manageable lowlands down to 80 sq. ft.																																										
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187 4130 - Aspen Poletimber Well 53.5 39 51-80 N/A The stand is well stocked. It is a pole size aspen that could be treated. It transitions from near pure aspen at north end to a mixture of Aspen and oak at south end. There are a couple of drains that bisect the stand and one area that is low.

Canopy Species	% Cover	Size Class	DBH	Age
Black/Red (Hybrid) Oak	8	Pole/Sapling	6	
Quaking Aspen	85	Pole	7	39
White Pine	7	Pole/Log	9	

188 6128 - Lowland Coniferous, Mixed Deciduous Poletimber Well 23.1 92 81-110 N/A The stand is a creek flood plain and the associated slopes. The cedar is more common in the south half. The north end is significantly more open because of ash die off. It is too wet to harvest, and the slopes are too steep.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	5	Pole	6		Tag Alder	High	5 - 10 feet	Tall Shrub
Quaking Aspen	10	Pole/Log	8		Musclewood/Hornbeam	Medium	10 - 20 feet	Sapling
Northern White Cedar	40	Pole/Log	8	92				
Red Maple	20	Pole/Log	9					

190 6117 - Lowland Deciduous, Mixed Coniferous Poletimber Medium 55.5 39 51-80 N/A The stand is a mixture of uplands and lowlands. The lowland makes up about 75 percent. There are some larger trees along the west edge. The tamarack density increases going south. The crown closure is around 60%. The terrain is hummocky.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black/Red (Hybrid) Oak	6	Sapling/Pole	2		Deciduous Shrubs	High	5 - 10 feet	Tall Shrub
Jack Pine	2	Sapling/Pole	3		Black/Red (Hybrid) Oak	Low	5 - 10 feet	Sapling
White Pine	7	Log/Pole/Sap	12		Tag Alder	High	5 - 10 feet	Tall Shrub
Red Maple	25	Pole/Sap/Log	6					
Quaking Aspen	35	Pole/Sapling	5	39				
Tamarack	15	Pole/Sapling	6					

191 622 - Lowland Shrub Nonstocked 27.3 No The stand has some scattered trees, mainly red maple, paper birch, and white pine. The east end has more leather leaf and the west end more lowland shrubs.

192 429 - Mixed Upland Conifers Poletimber Medium 18.8 39 1-50 N/A The stand is a mixture of uplands and lowlands. The uplands are about 55%. There are some larger trees along the west edge. The tamarack density increases going south.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Tamarack	15	Pole/Sapling	6		Deciduous Shrubs	Medium	5 - 10 feet	Tall Shrub
Black/Red (Hybrid) Oak	15	Pole/Sap/Log	7					
Quaking Aspen	25	Pole	8	39				
White Pine	45	Pole/Log/Sap	8	39				

193 4199 - Other Mixed Upland Deciduous Sapling Medium 17.0 27 1-50 N/A The stand is a mixture of uplands and lowlands. The uplands make up about 75%. The north end was planted to jack pine but failed. There are some jack pines still present but not many. Oak has seeded in and has become established. The terrain is hummocky. The crown closure is now close to 75%.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black/Red (Hybrid) Oak	55	Sapling	2	27	Deciduous Shrubs	High	5 - 10 feet	Tall Shrub
Quaking Aspen	5	Sapling	3					
White Pine	3	Pole	8					
Jack Pine	2	Sapling	3					
Red Maple	35	Sapling	3	27				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																				
194	6229 - Mixed lowland shrub	Nonstocked	15.5		Immature	No	The stand has some scattered trees. However, it is quite sparse. The stand is mainly lowland shrubs over leather leaf.																				
195	42200 - Natural White Pine	Sawtimber Well	3.3	69	51-80	N/A	The stand has limby white pines. It looks to have been heavily weevilled. Some of the trees have sawlog diameter but no saw logs. The stand could be harvested by removal of Aspen and thinning it down to 70 BA. The terrain is hummocky and appears to have wet pockets. The harvest may need to be restricted to dry/frozen conditions.																				
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196	6225 - Bog	Nonstocked	4.3			Managed Opening	The stand is a leather leaf bog with only a few trees in it.																				
197	42110 - Planted Red Pine	Sawtimber Well	8.3	61	141-170	N/A	The stand was third Row thinned in 01/2013, per Dewberry Mix sale 73-020-11. It has a decent understory of oak coming in under the pine. The stand could be harvested as a thinning taking it to 110 BA or clearcut and replant.																				
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198	42110 - Planted Red Pine	Sawtimber Well	1.4	62	141-170	N/A	The stand was thinned and could be thinned again. The regeneration of oak and other species is minimal but if thinned. Then waited another 10 years may lose the stand as a red pine stand.																				
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199	310 - Herbaceous Openland	Nonstocked	3.7			Managed Opening	The stand has a significant component of spotted knapweed.																				
200	310 - Herbaceous Openland	Nonstocked	2.4			Managed Opening	The stand is a grassy opening. The western portion of the stand was used as a borrow pit. It now has standing water in it.																				
201	42200 - Natural White Pine	Sawtimber Poor	1.7	89	51-80	N/A	The crown closure is just over 25%. The white pine is heavily weevil and most of the trees are multi-stemmed. The open areas are filling in with white pine, most have multiple leaders.																				
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204	6225 - Bog	Nonstocked	42.1			No	The stand is a mixture of uplands and lowlands with the lowlands making up about 70%. It has a high-water table. The uplands are knobs and low ridges.																				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																											
205	4139 - Aspen, Mixed Deciduous	Sapling Medium	22.3	8	Immature	N/A	The stand was harvested in 2013 in Dewberry Mix sale 73-020-11. The regeneration in the stand was heavily browsed and it's patchy. It goes from well to non-stocked. The retention was trees less than 4" DBH and marked oak. The uplands to lowlands ratio are close to a 50-50 mix. The crown closure goes from 10% to 100%. it has an average around 60%.																																											
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206	4119 - Mixed Northern Hardwoods	Sawtimber Well	21.9	92	51-80	N/A	The stand had a selection harvest in 2005. It is mostly uplands with 30% lowlands. The terrain is hummocky. The pine is concentrated along the road.																																											
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207	4130 - Aspen	Poletimber Well	26.8	31	81-110	N/A	The stand is a mixture of uplands and lowlands with the uplands being the majority. The terrain is hummocky, and portions of the stand are too wet to treat. There is a creek that bisects the stand.																																											
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208	6112 - Lowland Aspen	Sapling Poor	13.7	8	Immature	N/A	The stand was harvested. The regeneration is variable. The crown closure goes from 100% down to non-forested. The average crown closure is around 30%. When the stand was harvested, maple and oak less than 4 inches were retained.																																											
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209	4130 - Aspen	Poletimber Well	8.5	41	81-110	N/A	The stand could be harvested as a clearcut with retention. The retention should be in pockets and protect the wetter ground. Hold 10 years.																																											
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210	4199 - Other Mixed Upland Deciduous	Poletimber Poor	2.7	41	51-80	N/A	The stand has a lower density. It has a crown closure around 40%.																																											
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
211	6112 - Lowland Aspen	Poletimber Poor	11.9	80	1-50	N/A	This stand is the lowland shrub flood plain of the Little Molasses River and the associated slopes. The slope is sparsely treed and steep. The low tree density appears to have been caused by beavers.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Black/Red (Hybrid) Oak		8	Pole/Log	8		Deciduous Shrubs		Full	5 - 10 feet	Tall Shrub
Quaking Aspen		72	Pole	5	80					
Red Maple		20	Pole/Log/Sap	8	80					
213	320 - Upland Shrub	Nonstocked	11.9			No	The stand is a mixture of uplands and lowlands with the uplands being the majority. The stand has a lot of blackberries, raspberries, autumn olive, and lowland shrubs.			
214	6220 - Alder/willow	Nonstocked	3.4			No	The stand is a depression that has some maple and birch. However, the crown closure is less than 15%.			
215	6112 - Lowland Aspen	Poletimber Medium	13.3	34	Immature	N/A	The stand is a mixture of uplands and lowlands with the lowlands being about 70%. The stand is too wet to harvest.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Maple		30	Sapling/Pole	4		Viburnum		Medium	5 - 10 feet	Tall Shrub
Balsam Poplar		5	Sapling	4		Red Oak		Low	5 - 10 feet	Sapling
Paper Birch		10	Sapling	4		Tag Alder		High	10 - 20 feet	Tall Shrub
Quaking Aspen		55	Pole/Sapling	5	34					
216	4112 - Maple, Beech, Cherry Association	Sawtimber Medium	28.3	84	81-110	N/A	The stand was harvested by removing aspen and marked trees. The terrain is hummocky. There is a drainage going through the stand. The harvest occurred around 2014.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Black/Red (Hybrid) Oak		15	Log/Pole	12		Red Maple		Medium	>20 feet	Sapling
Red Maple		85	Log/Pole/Sap	12	84	Paper Birch		Medium	>20 feet	Sapling
						Musclewood/Hornbeam		Low	10 - 20 feet	Sapling
						Tag Alder	Low	5 - 10 feet	Tall Shrub	
218	6112 - Lowland Aspen	Poletimber Well	23.4	49	81-110	N/A	The stand is in matrix of uplands and lowlands with the lowlands being the majority. It could be harvested as a clearcut with retention. The retention should be in pockets and mark some of the oak and pine to be retained.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Maple		42	Pole/Sapling	5		White Pine		Low	5 - 10 feet	Sapling
Paper Birch		2	Sapling/Pole	4		Red Oak		Low	10 - 20 feet	Sapling
Quaking Aspen		51	Pole	7	49	Serviceberry (Juneberry)		Low	10 - 20 feet	Sapling
Bigtooth Aspen		2	Pole	7		Red Maple		Medium	10 - 20 feet	Sapling
Red Oak		3	Log/Pole	12						
219	6225 - Bog	Nonstocked	1.7			No	This stand is a depression that is heavy to leather leaf.			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																															
220	4199 - Other Mixed Upland Deciduous	Sapling Medium	12.7	30	51-80	N/A	The terrain is hummocky. The crown closure is around 55%. The lowlands make up about 40 percent.																																															
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222	4130 - Aspen	Poletimber Well	21.0	48	111-140	N/A	The stand has a wide variation in topography. The soils from wet to dry. The uplands make up around 60%. It appears that the stand has a high-water table. It could be harvested as a clearcut with retention. The retention should be in pockets and mark some of the oaks. The harvest should occur in late summer through spring break up. The Midland to Mackinac trail runs thru the stand.																																															
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223	3205 - Mixed Upland Shrub	Nonstocked	1.9			No	This is an opening that is sparsely treed. It is on a ridge.																																															
224	330 - Low-Density Trees	Nonstocked	19.3			No	The stand is a failed clearcut. The ground cover is heavy to blueberries. The soils appear to have a high-water table. The stand gets wetter going south.																																															
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225	4130 - Aspen	Sapling Medium	31.1	7	Immature	N/A	The stand was harvested as a clear cut in 2014. Regeneration is patchy with a crown closure around 50%. The stand is a matrix of uplands and lowlands. The uplands have regenerated to a fully stocked aspen type. The regeneration in the lowlands is variable going from non-stocked to moderately stocked. The stand has more wet ground toward the east end.																																															
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226	4130 - Aspen	Poletimber Well	51.6	30	51-80	N/A	There are several drainages the bisect the stand along the south edge and at the east end. The crown closure is around 85% in most of the stand. There are some small openings. The terrain is a little undulating.																																															
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228	3102 - Grass	Nonstocked	3.6			No	The stand is mostly grass with pockets of autumn olive, willow shrubs, and white pine.																																															



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229	6112 - Lowland Aspen	Poletimber Poor	14.8	74	1-50	N/A	The stand is a buffer to the Little Molasses River. It is mainly the slope above the floodplain. All the ash is gone. What is left in the stand is white pine, cherry, quaking aspen, and elm. Factor limit the stand for BMP.																																																		
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231	4130 - Aspen	Poletimber Well	42.4	36	81-110	N/A	The stand was harvested in 1987, sale 73-082-83. It is a matrix of uplands and lowlands with the lowlands being about 35%. There are inclusions of upland open herbaceous. The terrain is hummocky to undulating.																																																		
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232	6119 - Mixed Lowland Deciduous Forest	Poletimber Medium	5.9	96	51-80	N/A	There is an intermittent creek that flows through the stand. The ash in the stand is now gone lowering the crown closure.																																																		
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233	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Medium	6.8	25	51-80	N/A	The stand is a mixture of uplands and lowlands with the lowlands being the majority. It has a ridge going E/W at about the center of the stand. The terrain is hummocky along the perimeter.																																																		
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234	6113 - Lowland Maple	Poletimber Well	8.2	26	81-110	N/A	The stand gets wetter going north. Overall, the stand is a matrix of uplands and lowlands with the lowlands being about 60%. The terrain is hummocky. There is also a lot of small red maple saplings that have come down.																																																		
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235	4130 - Aspen	Poletimber Well	5.5	37	81-110	N/A	The stand is a matrix of uplands and lowlands with the uplands being about 75%. The terrain is hummocky. The crown closure is around 75%.																																										
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236	6220 - Alder/willow	Nonstocked	14.4			No	The stand has scattered swamp hardwoods in it, but it is sparse.																																										
237	42260 - Natural Pine, Mixed Deciduous	Sapling Poor	7.9	9	Immature	N/A	The stand was harvested in 2013 in Maple Point N. sale 73-013-12. It is variable in size going from saw logs to saplings. The stand is barely stocked. White and red pine are seeding in. The terrain is hummocky. There is some oak regeneration, but it is not established.																																										
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238	6220 - Alder/willow	Nonstocked	7.1			No	The stand is a drainage. It has trees along the perimeter.																																										
239	42290 - Natural Mixed Pine	Sawtimber Medium	29.2	124	51-80	N/A	The stand was harvested in 2013, in Maple Point N, sale 73-013-12. The harvest was a 4" spec clearcut of hardwood and reduce the BA of the pine to around 70. This stand is a natural red and white pine. There is some regeneration of oak and pine in the understory.																																										
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241	6225 - Bog	Nonstocked	3.3		Unspecified	No	The stand is a leather leaf bog under lowland shrubs.																																										
242	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	11.5	34	51-80	N/A	The stand is a matrix of uplands and lowlands with the uplands being the majority.																																										
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243	4319 - Mixed Upland Forest	Poletimber Well	12.9	99	51-80	N/A	The stand was harvested in 2013, in Maple Point N, sale 73-013-12. The harvest was a selection that reduced the BA to around 80. The removal was to be focused on the larger diameter trees. This stand is somewhat wet but was operable in dry or frozen conditions. The terrain is hummocky.																																															
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244	6119 - Mixed Lowland Deciduous Forest	Poletimber Medium	16.8	89	81-110	N/A	The stand lies along an intermittent drainage. The ash in the stand is gone. The main drainage has a flood plain with a crown closure less than 50%. The rest of the stand has a crown closure around 70%.																																															
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245	6229 - Mixed lowland shrub	Nonstocked	0.7		Unspecified	No	This stand is land locked by private land and the river. It is sparsely treed. It is on the flood plain of the Tittabawassee River.																																															
246	500 - Water	Nonstocked	2.0		Unspecified	No	This is the Tittabawassee River																																															
247	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Medium	21.0	101	81-110	N/A	The stand is lowland because of a high-water table. It sits between a ridge and the river. There are numerous springs present. The ash in the stand is gone.																																															
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248	4130 - Aspen	Sapling Well	7.3	9	Immature	N/A	The stand was harvested in 2013, in Maple Point N, sale 73-013-12. The stand is mainly quaking aspen with some bigtooth aspen, red maple, and mixed oaks. The crown closure is around 75%. There are some openings. The stand has a drainage which goes along the west side.																																															
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249	320 - Upland Shrub	Nonstocked	4.5		Unspecified	No	This is an open area that is a mix of grass, upland shrubs, and scattered seedlings, saplings, and poles.																																															



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																											
250	4130 - Aspen	Sapling Poor	3.7	9	Immature	N/A	The stand was harvested in 2013, in Maple Point N, sale 73-013-12. The stand density is variable going from fully stocked to poorly stocked. The average crown closure is around 40%.																											
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251	3202 - Autumn Olive/Honeysuckle	Nonstocked	3.3			Managed Opening	The stand is mainly autumn olive with some scattered trees.																											
253	6113 - Lowland Maple	Sawtimber Medium	2.2	91	51-80	N/A	This stand is in a depression. The ash is gone, and the crown closure is now closer to 50%.																											
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