



Compartment Review Presentation

Gaylord Forest Management Unit

Compartment 52126

Entry Year 2022

Acreage: 2,359

County Emmet

Management Area: Chandler Hills

Revision Date: 2020-05-15

Stand Examiner: Tricia St. Pierre

Legal Description:

T34N R04W

Section 7: W1/2, N1/2NE, N1/2N1/2S1/2NE;

Section 16: N1/2 except SWNW;

Section 17: W1/2;

Section 19: all except NENE;

Section 20: NW except NWNWNW, NWSW, NWNE;

Section 21: all except NW.

T34N R05W

Section 12: E1/2E1/2NE;

Section 24: NESE, SESE except SESESE (still owned by the State of Michigan, but not managed through FRD)

Identified Planning Goals:

To provide for the protection, integrated management, and responsible use of a healthy, productive, and undiminished forest resource base for the social, recreational, environmental, and economic benefit of the State of Michigan and its inhabitants. Promote native species and diversity through forest management with careful consideration to social and environmental impacts. Identify and control invasive species through partnerships and funding if/when feasible and able to do so.

Soil and topography:

Topography in this compartment is typically hilly, occasionally very steep, having deep and well drained soils formed in sandy and loamy deposits on moraines. These dry, sandy soils and variable terrain present challenges for erosion control. This compartment is dominated by loamy sands with less than 2% sands and muck. Leelanau Loamy Sand occupies 68% of the compartment, historically supporting beech/maple forests with scattered white pine. Kalkaska Loamy Sand occupies 20% of the compartment and is capable of supporting more varied forest types, including mixed hardwood, aspen, and red and white pine. Within this compartment, red pine plantations dominate the Kalkaska series on the flattest terrain. At 8%, Blue Lake Loamy Sand tends to be a bit more moist and supports maple, beech, yellow birch, quaking aspen, white pine, and hemlock. Elsewhere, poorly drained mucks support balsam fir, cedar, red maple, and quaking aspen.

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

Ownership around this compartment is largely residential. There are larger tracts of private ownership and well as Conservancy and Trust properties, many of which are working forests. The compartment itself offers various recreational opportunities from trails to hunting. Most management has been geared towards traditional hardwood management, though there are opportunities to maintain or perhaps expand early successional habitat.

Unique Natural Features:

There is great potential for unique natural features within this compartment but no known occurrences. Potential exists for the following:

-Blunt-lobed Woodsia potential - not likely present given habitat of Woodsia vs this compartment

-Myotis lucifugus (Little Brown Bat) - potential exists, especially with the southwest aspects on some hillsides and an increase in habitat (wood piles) in the wake of EAB and BBD.

-EO potential overlap for English Sundew in the northwest, but very unlikely given its preferred habitat. Slight potential in northwest swamp. Drosera anglica enjoys calcareous habitats, peat swamps, and flarks (none of which are present in this compartment).

-The northeast portion of this compartment is adjacent to a Mesic Northern Forest community. These characteristics continue into this compartment though there are no special designations.

-Potential for Buteo lineatus (RSH), but no known occurrence.

Archeological, Historical, and Cultural Features:

There are no known Historical or Archaeological sites within this compartment.

Special Management Designations or Considerations:

There are no designated HCVAs or SCAs (current 02/2020).

Minnehaha Creek and associated water features should be protected when considering management activities.

Observed adjacent painted blue lines on two trees in what could be a research plot or study of some kind. Responsible party still unknown.

Watershed and Fisheries Considerations:

This compartment contains portions of West Branch Minnehaha Creek and Minnehaha Creek, both of which are designated trout streams within the Cheboygan River watershed. Both streams are classified as coldwater streams. No treatments are planned near these streams. Stand 51 appears to have a small stream/drainage running through the southwest corner of a proposed treatment. Standard BMPs should be followed, and a winter-only cut or other steps to minimize erosion should be followed.

Wildlife Habitat Considerations:

Management within this compartment should be conducted in a manner consistent with providing habitats for a variety of wildlife species. Opportunities to manage oak for future mast resources, which provides an important food source for many species, should be considered.

Mineral Resource and Development Concerns and/or Restrictions

An active sand/gravel pit is located just north of the compartment, in Section 6, and another pit is about one mile northeast, in Section 3. There is good sand & gravel potential within the compartment. The compartment is many miles from the nearest current or past oil and gas production. There is no known oil and gas potential in the area, and there is no active mineral leasing in the vicinity (aside from some "legacy" leases near Petoskey). There is no known metallic mineral potential in this part of the state.

Vehicle Access:

Vehicle access is generally good, at least to the perimeter of this compartment, though many access routes are seasonal and some double as recreational trails. Access to the interior of this compartment is more restricted with terrain being the biggest limiting factor. Highly erodible sandy soils also prove challenging.

Survey Needs:

There have been a lot of county remonumentations within this compartment. Sections 16 and 21 have some inconsistent corners, shifted east of where they might be expected.

Recreational Facilities and Opportunities:

This compartment receives a lot of recreational pressure from motorized trails and hunting. While there are no designated non-motorized trails, local residents have created their own winter ski and snowshoe routes, no doubt using the same areas in the summer months for hiking.

The following trails are present and heavily travelled:

-Snowmobile trail 765

-Tomahawk B Loop (designated motorcycle trail)

Fire Protection:

There are very few fire prone cover types, the majority of which are in section 17 as red pine plantations. The soils and therefore natural vegetation coming up under the red pine are not highly volatile and the threat of wildfire is minimal in normal climatic conditions. Springvale Township VFD is located a couple miles to the north of this compartment, providing fast response times in the event of a fire. The Minnehaha Creek and associated branches are the nearest source for water, though drafting might prove challenging at some locations.

Additional Compartment Information:

There are a few areas where resource degradation has occurred from ORV pressures. Therefore, management actions should be cognizant of these pressures and minimize opportunities for future or further degradation.

Japanese Barberry has been identified in this compartment and reported to MISIN. Efforts to remove and control this colony, aiming for eradication, should be made when feasible/practical to do so. Management activity should be cognizant not to further spread this and other invasive species.

The name "Minnehaha" literally translated is Dakota for "curling water" (referencing waterfalls), though has taken the meaning of "laughing water" from a poem by Longfellow, (Indian Names in Michigan, V. Vogel).

The following reports from the Inventory are attached:

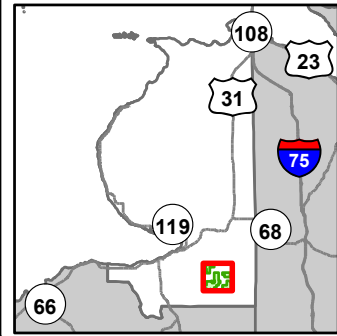
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

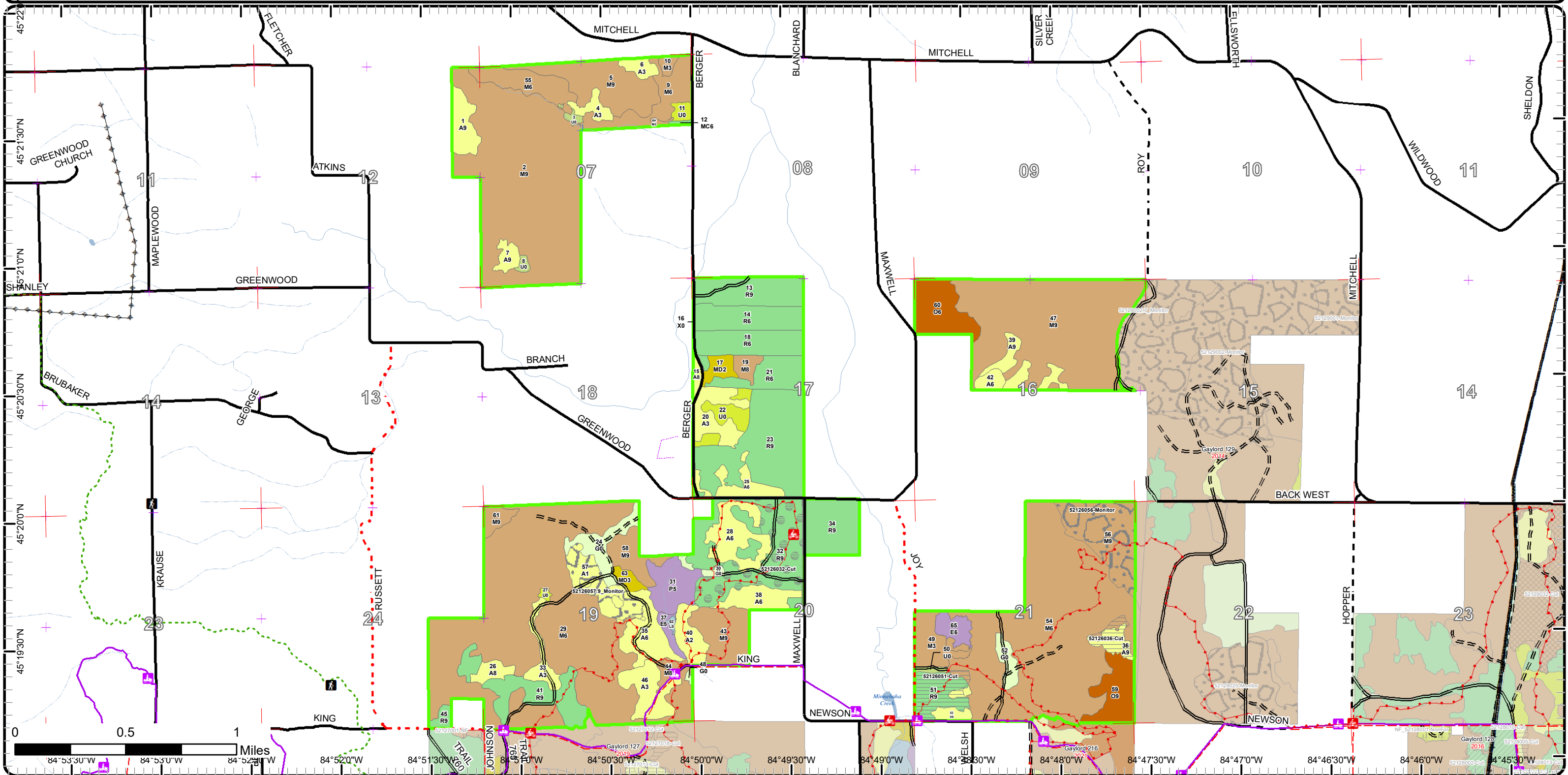
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 126
 T34N, R05W, Sec. 12, 24
 T34N, R04W, Sec. 7, 16, 17, 19-21
 County: Emmet
 Unit: Gaylord
 Mgmt Area: Chandler Hills
 YOY: 2022
 Acres: 2,359 GIS Calculated
 Examiner: Tricia St. Pierre
 Map Revised: 11/20/2020
 Map Phase: Post-Review

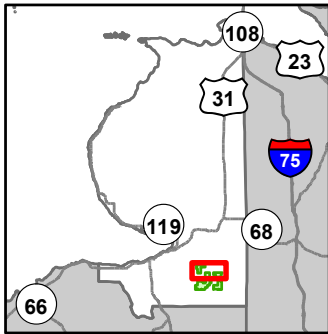


- Miris Corners
- + Remonumented Section Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- 🏍 Motorcycle Trails (DNR License)
- 🏍 Snowmobile Trails
- ORV License & Trail Permit
- Designated Snowmobile Trails
- Culvert
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Non-Designated Recreational Trail
- Compartment Boundary
- Clearcut (w/Reserves)
- Patch/Strip Cut (Femelschlag)
- Regeneration Survey
- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 611 - Lowland Deciduous Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 330 - Low Density Trees
- 622 - Lowland Shrub

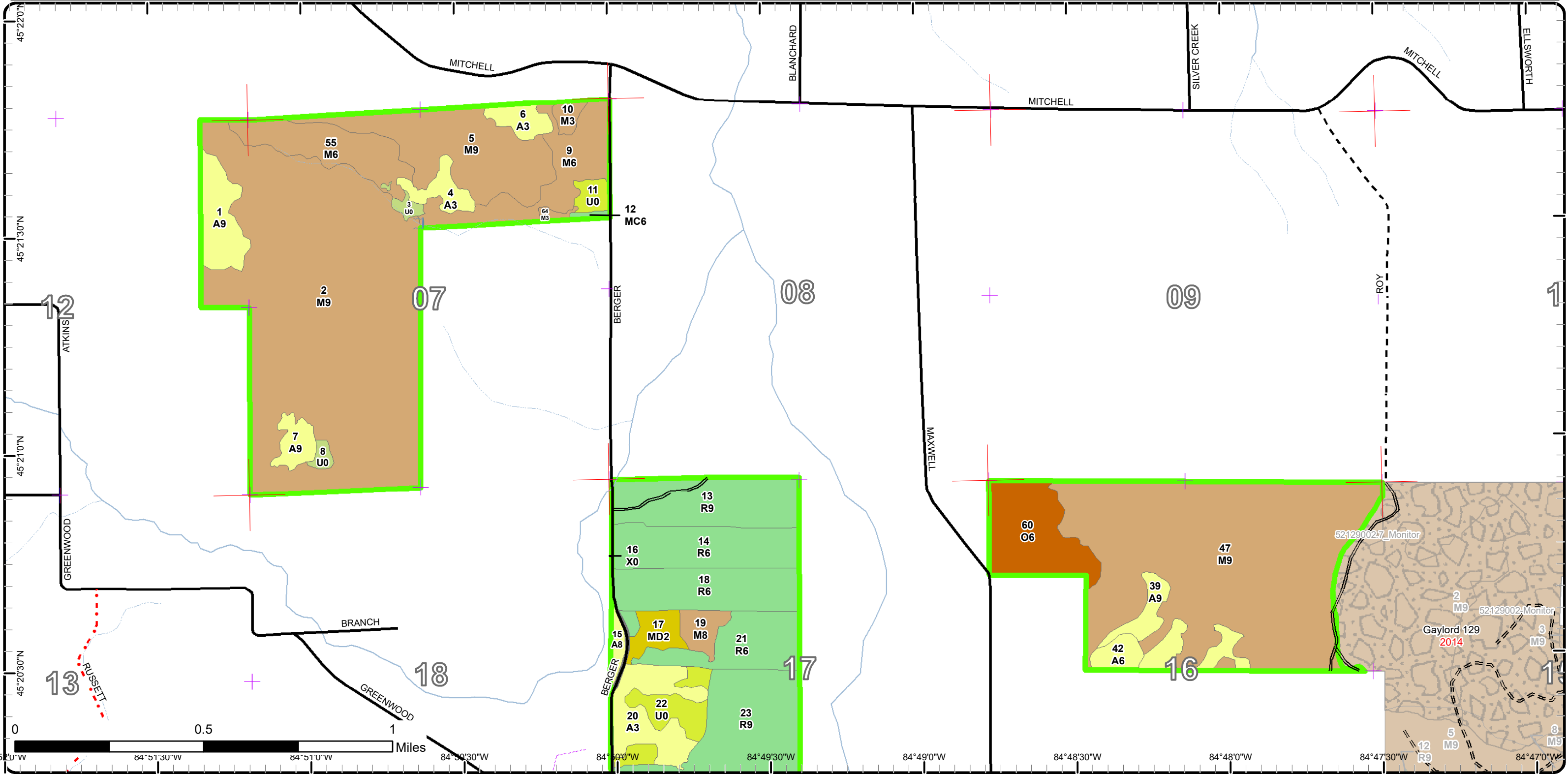


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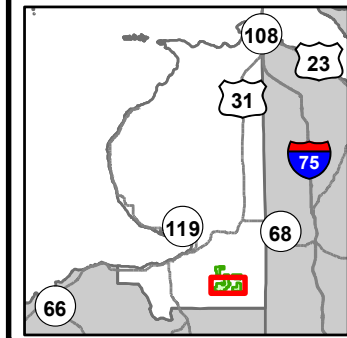


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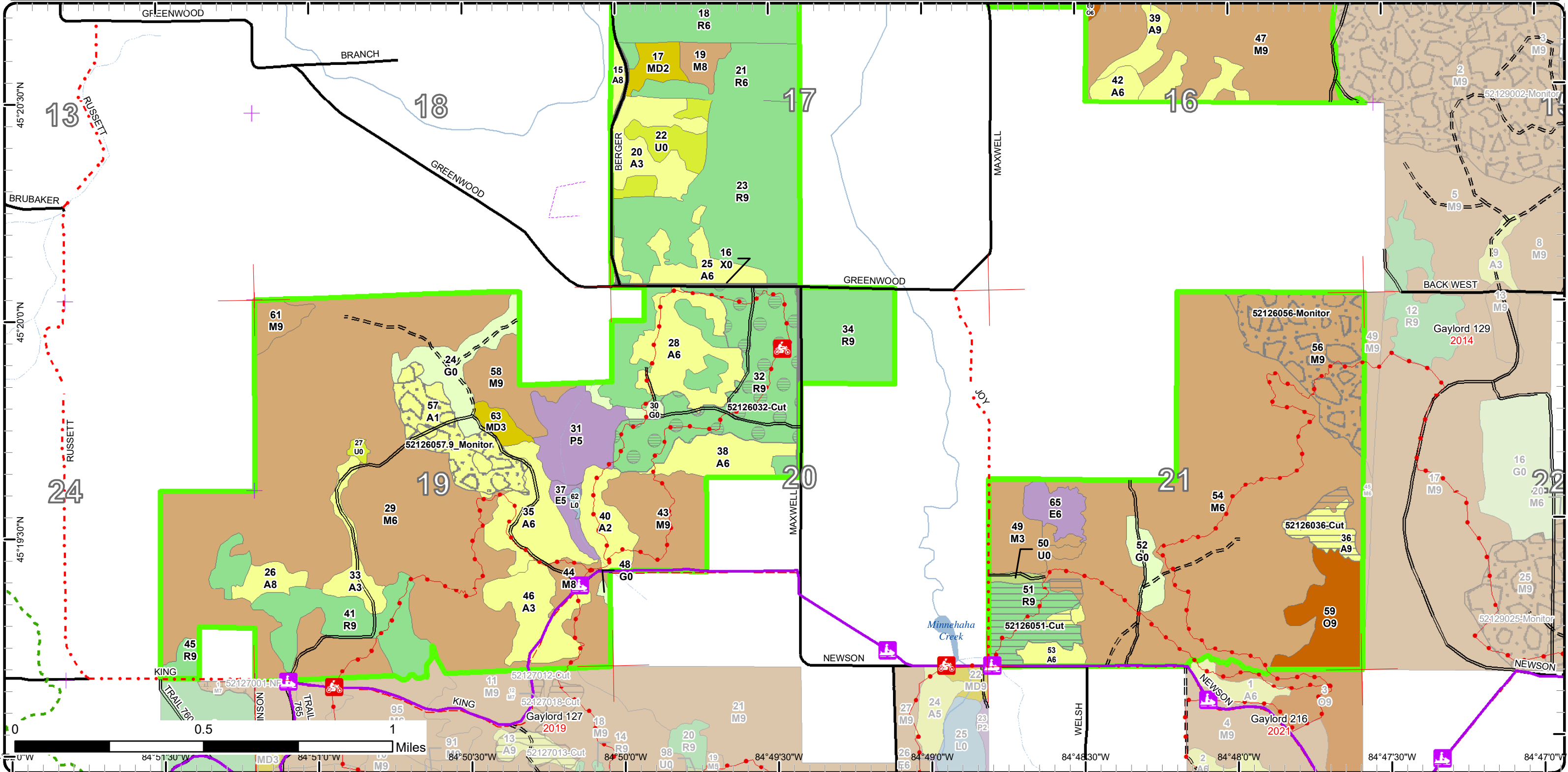


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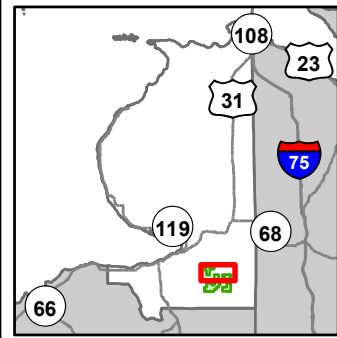


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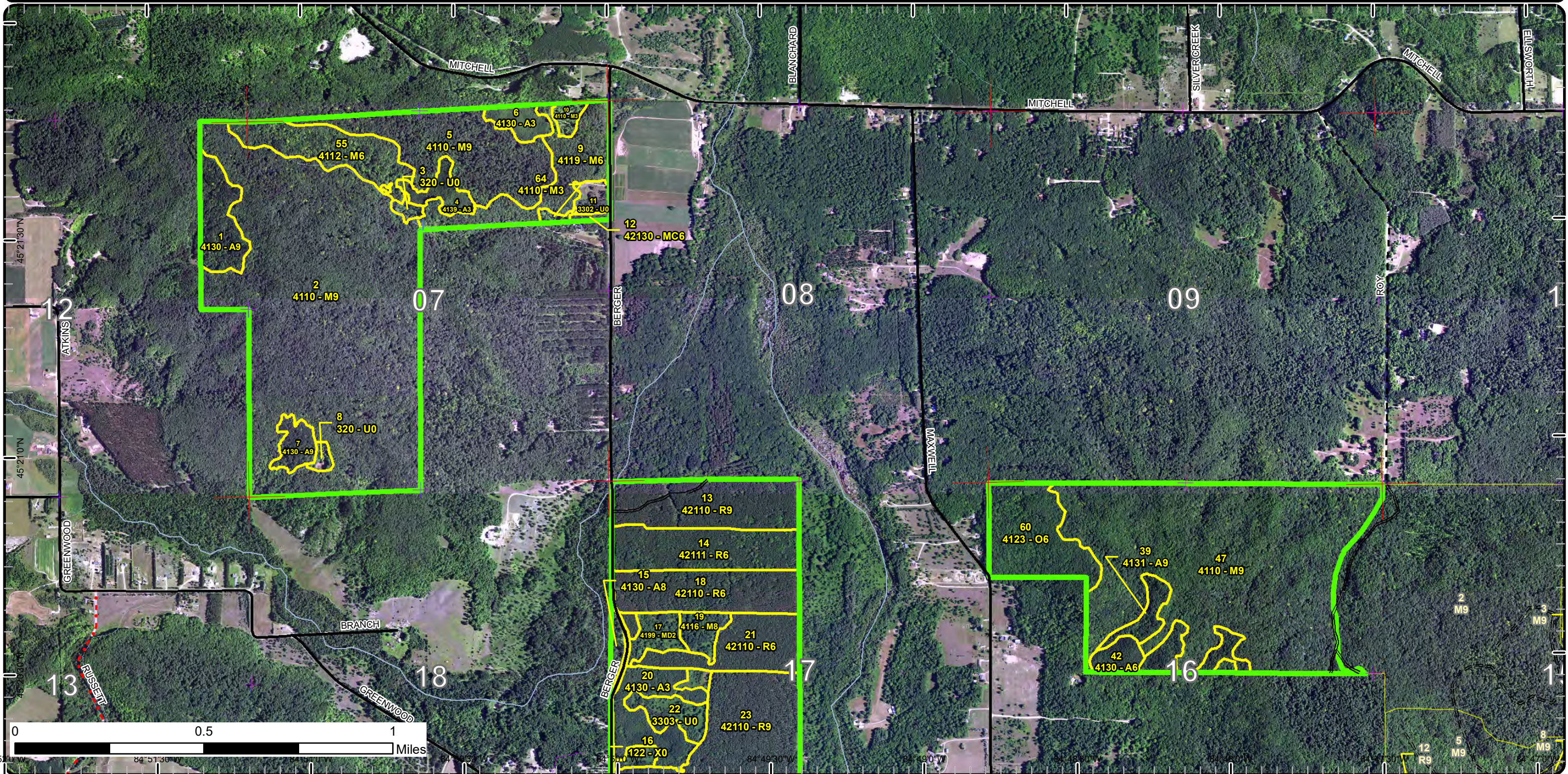


Stand Boundary Map

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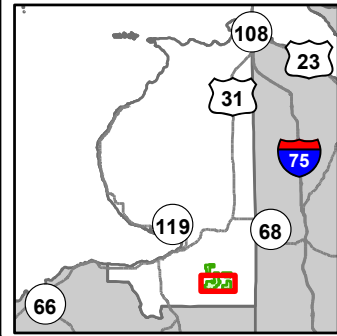


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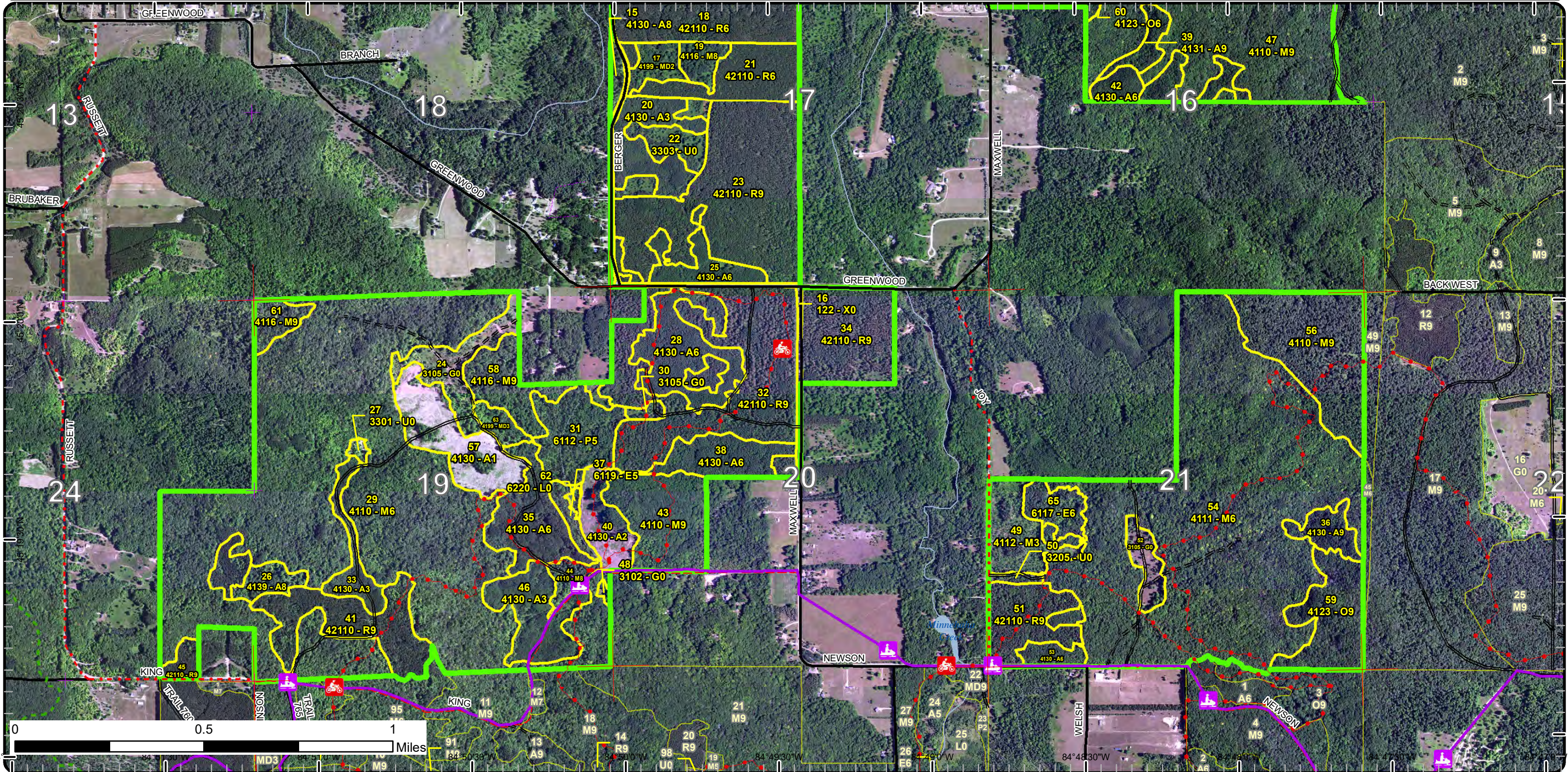


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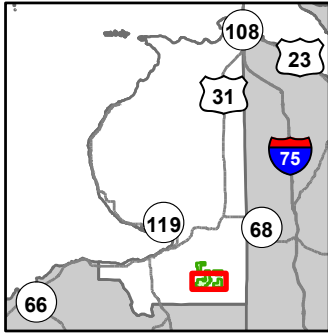


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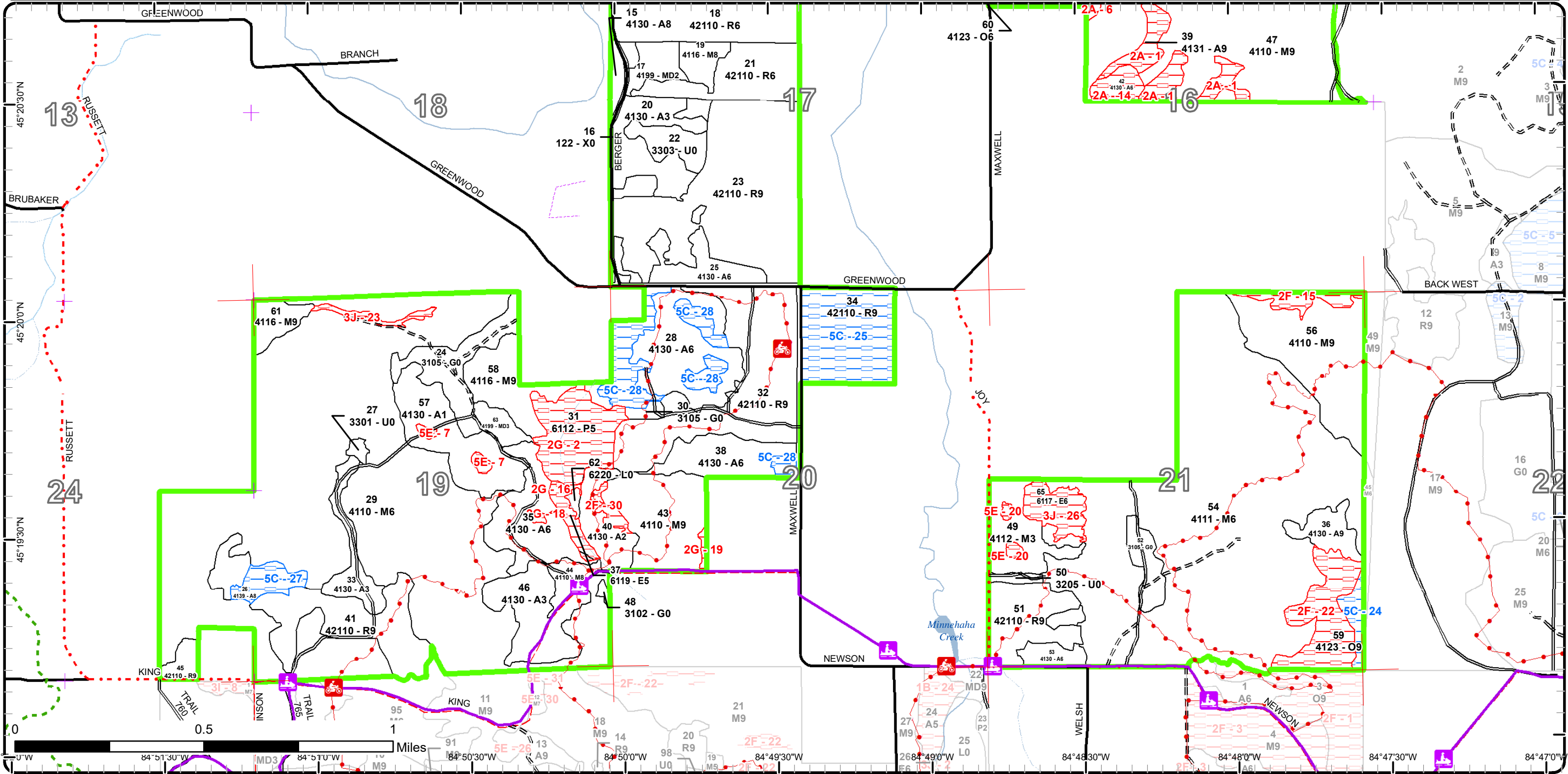


Special Conservation Areas

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- Lake/Pond
- Perennial River
- Lakes and Rivers
- Non-Designated Recreational Trail
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention
- Stand Boundaries
- Cold Water Streams
- Cold Water Lakes
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 2A: Adjacent landowner denied access
- 2F: Too steep
- 2G: Too wet (sensitive soils, does not include access issues)



Report 1 – Total Acres by Cover Type and Age Class

Gaylord Mgt. Unit

Compartment 126 Year of Entry 2022

Tricia St. Pierre : Examiner



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	51	43	41	104	7	8	4	0	44	10	0	0	0	0	0	0	0	312
Herbaceous Openland	36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	36
Low-Density Trees	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22
Lowland Aspen/Balsam Poplar	0	0	0	0	0	0	0	0	0	28	0	0	0	0	0	0	0	0	28
Lowland Deciduous	0	0	0	0	0	0	0	6	0	0	12	0	0	0	0	0	0	0	18
Lowland Shrub	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Mixed Upland Deciduous	0	0	0	9	6	0	0	0	0	0	0	0	0	0	0	0	0	0	15
Northern Hardwood	0	22	0	5	0	0	28	364	0	274	450	257	0	0	0	0	0	0	1400
Oak	0	0	0	0	0	0	0	0	0	36	31	0	0	0	0	0	0	0	67
Planted Mixed Pines	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
Red Pine	0	0	0	0	63	0	41	180	0	160	0	0	0	0	0	0	0	0	444
Upland Shrub	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
Urban	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11
Total	77	73	43	55	173	7	77	555	0	542	503	257	0	0	0	0	0	0	2362



Report 2 – Treatment Summary

Gaylord Mgt. Unit

Year of Entry: 2022

Acres of Harvest

Compartment 126

Total Compartment Acres: 2,359

Commercial Harvest - 111
 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	13	0	0	0	0	0	0	0	0	13
Red Pine	29	0	69	0	0	0	0	0	0	98
Total	42	0	69	0	0	0	0	0	0	111

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	111	0	0	0	0	89	0	0	0	199
Next Step	0	29	57	0	0	57	139	0	0	282
Total	111	29	57	0	0	57	228	0	0	481



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

32	52126032-Cut	68.9	42110 - Planted Red Pine	Sawtimber Well	85	81-110	Harvest	Strip/Patch/Gap Cut (Femelschlag)	4211 - Planted Red Pine	Two-Aged	No
<p><u>Prescription</u> Strip cut approximately 1-2 chain width rows, leaving 2-3 chain widths between rows to achieve 40% removal (+/-5%). Rows should be oriented north-south to maximize sunlight penetration to regeneration and adjacent subcanopy. Do not harvest any oak. Do not cut any pine greater than or equal to 24" dbh. Sign and protect dirtbike trail during all operations. Consider a temporary re-route to avoid recreational conflicts during harvest.</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> Stand will maintain red pine coverytype. Acceptable regeneration within the strip cuts will meet minimum stocking requirements for mixed deciduous with any inclusion of aspen. A coniferous component will be acceptable in any stocking level.</p> <p><u>Other</u> Try to protect any pockets of regenerating pine by red lining them out or other effective methods.</p> <p><u>Comment:</u> Management is intended to move towards an uneven-aged structure. It will become two-aged, or even three-aged in some cases, following this treatment.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											
36	52126036-Cut	13.1	4130 - Aspen	Sawtimber Well	94	111- 140	Harvest	Clearcut	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Final harvest. Do not cut any oak; include oak wilt spec. Make topographical considerations for BMPs and operational feasibility. Harvest boundary may vary in shape and area (+/- 25%) for the aforementioned reasons. Landing will likely need to be identified outside of sale boundary due to topography. Protect trail crossings along access route.</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> Acceptable regeneration will meet minimum stocking requirements for aspen. The inclusion of hardwood in any density will be acceptable, as will classification as a MD or M(A) type.</p> <p><u>Other</u> G0 (stand 52) is degraded (full spotted knapweed) and should be considered an appropriate place for a landing, avoiding the take of oak, juniper, and sumac.</p> <p><u>Comment:</u> Water bar skid trails, access as needed during/post harvest.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											
51	52126051-Cut	28.6	42110 - Planted Red Pine	Sawtimber Well	80	81-110	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Final harvest. Do not cut any oak. Require 6" stump height. Expand treatment to east and northeast into adjacent aspen and hardwood to square up the edges for future planting considerations. Sign and protect the dirtbike trail during all operations. Retention should be placed in the southwest observing BMPs along the tributary to the Minnehaha Creek, also around any sensitive soils. Recommended winter harvest to prevent sedimentation from entering the stream.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Pesticide, Skidder - Site Prep; SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Pesticide, Skidder -</p> <p><u>Treatments:</u> Release; Planting, Interplant; Monitoring, Artificial Regen(3yr)</p> <p><u>Acceptable Regen:</u> Acceptable regeneration will meet minimum stocking requirements for planted red pine, free to grow.</p> <p><u>Other</u> Consider temporary re-route of dirtbike trail along Newson Road and up existing two-track during operations.</p> <p><u>Comment:</u> Be mindful of likely drainage along edge of stand 53 and implement BMPs if drainage extends into the red pine stand.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
56 52126056-Monitor	57.5	4110 - Sugar Maple Association	Sawtimber Well	90	51-80	Monitoring	Natural Regen (Re-Inventory)	411 - Northern Hardwood	Two-Aged	No
<p><u>Prescription</u> inventory for adequate stocking of desirable northern hardwood. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> northern hwd <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2021</p>										
57 52126057.9_Monitor	31.0	4130 - Aspen	Sapling Poor	4	Immature	Monitoring	Natural Regen (Re-Inventory)	4139 - Aspen, Mixed Deciduous	Even-Aged	No
<p><u>Prescription</u> Monitor aspen/northern hardwood regen. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> A mix of aspen and northern hardwood species. <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2019</p>										

Total Treatment Acreage Proposed: 199.1

Report 4 – Site Conditions

Gaylord Mgt. Unit
Tricia St. Pierre : Examiner

Compartment: 126
Year of Entry: 2022



Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions						
		With Condition	Not Available		5C	2A	2F	2G	3J	5E	ed
310	245	8	56	Aspen	8	50	3	1		2	
36	36	0	0	Herbaceous Openland				0			
22	22	0	0	Low-Density Trees							
28	0	0	28	Lowland Aspen/Balsam Poplar				28			
17	0	0	17	Lowland Deciduous				6	12		
1	1	0	0	Lowland Shrub							
15	15	0	0	Mixed Upland Deciduous				0			
1401	1269	0	131	Northern Hardwood			115	11	3	2	0
67	0	6	62	Oak	6	36	25				
1	1	0	0	Planted Mixed Pines							
444	378	66	0	Red Pine	66			0			
7	7	0	0	Upland Shrub							
11	11	0	0	Urban							
2,359	1,985	80	294	Total Forested Acres	80	86	144	45	15	4	0
	84%	3%	12%	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	2A: Adjacent landowner denied access	18	2F: Too steep	Unspecified	Unspecified	Unspecified
Comments: Portions of this multi-part stand might be too steep for equipment to effectively operate.							
2	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	28	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Gaylord Mgt. Unit
Tricia St. Pierre : Examiner

Compartment: 126
Year of Entry: 2022



3	Unavailable	2A: Adjacent landowner denied access	18	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Wet draws with flowing water pooling in the southwest in a small cedar/hemlock stand and alder opening.							
5	Unavailable	2A: Adjacent landowner denied access	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	2A: Adjacent landowner denied access	36	2F: Too steep	Unspecified	Unspecified	Unspecified
Comments: There is no way to access this stand except through private. In addition, the east half is a very steep hillside which may prove to be inoperable.							
7	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Saturated soils, extremely fragile, supporting sapling/pole yellow birch, red & sugar maple, ash.							

Report 4 – Site Conditions

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9	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Defined channel with flowing water, likely perennial.							
10	Unavailable	2F: Too steep	108	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Many slopes are too steep for traditional selection management. There are also many wet draws where equipment should not operate. The ridgeline and southern plateaus are operable but will require coordination from multiple landowners to access.							
11	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Very wet draw with sensitive soils.							
12	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Flowing intermittent stream with defined banks, sensitive soils.							
13	Unspecified	Unspecified	0				
Comments:							
14	Unavailable	2A: Adjacent landowner denied access	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

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15	Unavailable	2F: Too steep	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Timber sale boundary pushed the edge of operable terrain. Private ownership on north edge limits accessibility as well.							
16	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Perpetually understocked lowland stand with a significant drainage running through it. Both east and west sides have been harvested to the edge of operable ground. This is too wet and not economically viable.							
17	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	2	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments: Stream corridor with sensitive soils							
18	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Lowland pocket remaining largely unvegetated.							
19	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Lowland hardwood with cedar, hemlock, cattails. Very sensitive soils, drains onto private.							
20	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Long term retention for Hazel's Red Pine, 52-110-12-01.							

Report 4 – Site Conditions

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21	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Perpetually flooded area at base of a seep. Natural flow impeded by road resulting in inundated cedar, yellow birch, hardwood.							
22	Unavailable	2F: Too steep	25	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Operable ground may be considered and site condition adjusted when adjacent M6 is thinned.							
23	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Stream corridor							
24	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Small portion of stand, operable from east and should be managed in conjunction with adjacent compartment. Not accessible from west.							
25	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	40	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Stand received a thinning in 2013. Delay any further treatment for subcanopy development.							
26	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments: There are seeps and perennial streams throughout this stand. Stand needs examination in snow-off conditions.							

Report 4 – Site Conditions

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Tricia St. Pierre : Examiner

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27	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	8	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: Inconsistent mix of aspen and hardwood with variable diameters and densities. Maintain this stand until adjacent red pine is harvested for access and saleability.</p>							
28	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	26	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: Delay treatment on this portion until understory becomes merchantable and adjacent aspen is treated.</p>							
30	Unavailable	2F: Too steep	3	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments:</p>							

Mgt. Unit

Compartment: #Type!

Year of Entry:



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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
Comments				



Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

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

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

Conservation Area	Type	Description
SCA	Cold Water Lake	A coldwater lake has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species to persist from year to year. Suitable conditions for coldwater fishes may occur in Michigan lakes if they are relatively deep, have substantial groundwater inflows, or are located in colder (northern) areas of the state. Such lakes are established by Director's action and designated as trout resources by Fisheries Order 200.
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																														
1	4130 - Aspen	Sawtimber Well	18.3	80	111-140	N/A	Variable west facing slope with a flat bottom and an old trail arcing from private onto state land. Red pine along west perimeter. Trace basswood, white ash, yellow birch, and white pine also present. A lot of pole hardwood, could have called red/sugar maple pole. One black cherry along east perimeter. Small opening in southwest with dense pole/sapling aspen, red maple, beech, and ironwood adjacent.																																																																														
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2	4110 - Sugar Maple Association	Sawtimber Well	257.1	100	81-110	N/A	Decent quality hardwood on hilly and occasionally steep terrain. Trace elm and ironwood in canopy. Average BA has dropped to about 100 (from 110 previously) in the wake of EAB and BBD. Higher basal areas in the least accessible areas, also a slightly higher prevalence of elm (probably having escaped salvage efforts). There is a lingering component of white ash. Beech is still present but deteriorating. Black cherry component generally confined to northernmost acreage. Red maple, bigtooth aspen, and striped maple are commonly associated with higher stocking of beech. Beech and ash regeneration are clumpy, generally dense where present but low elsewhere. Tiny lowland inclusion in the southwest with cedar, hemlock, alder. Draws converge here with flowing, pooling water. One walnut on an upland hill on the edge of private in this area. Elsewhere, there are defined perennial streams towards the bottom of draws with an increase in yellow birch.																																																																														
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3	320 - Upland Shrub	Nonstocked	2.3	Unspecified	No		Planted red pine along perimeter of south opening. North opening is a little more open than south. Very dense sapling/pole timber with XLog sugar maple between the two islands.																																																																														
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4	4139 - Aspen, Mixed Deciduous	Sapling Well	8.1	15	Unspecified	N/A	Payment Unit 3, Mixed Berger, 52-129-02-01, complete 2004/2005. There are a few scattered bigtooth barely making it into a merchantable class. Sugar maple is struggling to keep up and maintain canopy position. Enormous amount of pin cherry east of the main skid trail with some snow damage. I expect a lot of pin cherry to thin out over the next 10-20 years, giving way to aspen and mixed hardwood. Trace juniper and red pine in the subcanopy, typically in old skid trails in east.																																																																										
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5	4110 - Sugar Maple Association	Sawtimber Well	55.0	95	51-80	N/A	Payment Unit 2, Mixed Berger, 52-129-02-01, complete October 2004. Fairly high quality northern hardwood stand, a mix of sawtimber and poletimber. Stand received a selection harvest in 2004. Rolling hills with some steep slopes. Heavy browsing on regen, particularly white ash and sugar maple. Some sugar maple has made it above browse height. More pole timber and heavier stocking on steeper slopes. Few scattered living ash, mostly dead standing though. Some mortality in beech. Overwhelming ironwood regeneration, but significant successful sugar maple, too. The far western wedge of this stand was not included in the timber sale, but sits on top of a plateau and is similar in composition and basal area. BAs range 50-80 with occasional spike >100, averaging 73.																																																																										
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6	4130 - Aspen	Sapling Well	7.4	16	Immature	N/A	Payment Unit 1, Mixed Berger, 52-129-02-01, complete 2004. Young aspen regen on rolling hills, some steep slopes. Nice response from sugar maple, but it won't keep up with bta; cherry and sugar maple are likely to fall out of the canopy composition over the next cycle. Came across one red pine sap, one juniper, couple striped maple. None enough to warrant listing in the subcanopy.																																																																										
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7	4130 - Aspen	Sawtimber Well	7.4	80	81-110	N/A	Log bigtooth with pole hardwood on sloping terrain, variable west/southwest aspect generally. Log red maple on perimeter (multi-stemmed); beech component picks up in northwest. Current BA is 70-130, averaging 100. Fairly heavy beech and red maple component to the north of this stand which might be desirable for salvage if this stand is harvested.																																																																										
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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8 320 - Upland Shrub Nonstocked 2.1 Unspecified No

Pole/log planted red pine around the perimeter of this stand with dense sugar maple saplings 10-20' underneath. Observe for potential HAL significance if considering use or management.

Sub-Canopy Species	Density	Avg. Height	Size
Juniper	Medium	< 5 feet	Tall Shrub
White Pine	Low	Variable	Pole
Scotch Pine	Trace	5 - 10 feet	Sapling
Spotted Knapweed	Low	Unspecified	Non-Wood
Balsam Fir	Trace	< 5 feet	Sapling
Ironwood	Trace	< 5 feet	Sapling
Red Maple	Low	>20 feet	Pole
Bracken Fern	Medium	Unspecified	Non-Wood
Blackberry/Raspberry	Low	< 5 feet	Tall Shrub
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Sugar Maple	Trace	< 5 feet	Sapling
Sugar Maple	Medium	>20 feet	Pole
Beech	Low	Variable	Sapling
Black Cherry	Trace	>20 feet	Pole

9 4119 - Mixed Northern Hardwoods Poletimber Well 33.8 80 81-110 N/A

Average BA around 85, commonly 70-90. West leg of stand is dominated by pole red maple, slowly transitioning to pole sugar maple in the center, becoming dominated by more log-sized sugar maple (some very platey phenotypes) and basswood in the far northeast. The transition between species and from pole dominated to log is very gradual, almost imperceptible, but the difference in composition between the extreme southwest to extreme northeast is significant. Trace yellow birch, elm, and ash in canopy. Trace white pine, balsam fir in subcanopy. Far northeast contains a seep whose flow is blocked by Berger Road, resulting in a perpetually flooded 1/4-ac pocket containing cedar, yellow birch, and lowland hardwood. There's a small drainage in the southwest, a stream corridor with cattails, burdock, thistle, and blowdown along a stream edge, supported peripherally by sap/pole/log sugar maple, white ash, black ash, red maple, black cherry, beech, yellow birch, balsam fir, cedar, and hemlock in varying densities and composition. There seems to be an impressive cover of sugar maple seedlings (<1') in parts of this stand as observed through the snow.

Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	48	Pole/Log	8	80
Basswood	15	Log/Pole	10	
Red Maple	28	Pole/Log/Sap	7	
Black Cherry	1	Pole/Log	8	
Beech	2	Pole/Log/Sap	6	
Quaking Aspen	1	Log	12	
Bigtooth Aspen	5	Log	12	

Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	Medium	10 - 20 feet	Sapling
Striped Maple	Trace	5 - 10 feet	Sapling
Beech	Medium	Variable	Sapling
Hemlock	Low	Variable	Sapling
Ironwood	Low	Variable	Sapling
Sugar Maple	Medium	< 5 feet	Seeding
White Ash	Medium	< 5 feet	Seeding



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																
10	4110 - Sugar Maple Association	Sapling Well	3.6	26	1-50	N/A	Previously typed as a U0 but is 75% stocked with sugar maple saplings and scattered pole/log cherry, red maple, red pine. Scattered log sugar maple, unable to represent in canopy.																																																																
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11	3302 - Low Density Conifer Trees	Nonstocked	4.8		Unspecified	No	The southern half of this stand is fully stocked with scotch pine sap/pole/log. The north half is about 40% scotch pine. Trace beech, white ash, sugar maple saplings in southeast near road. Increased balsam fir in southeast as well.																																																																
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12	42130 - Planted Scotch Pine	Poletimber Well	1.2	60	81-110	N/A	Scotch pine plantation and further encroaching pole/saps. Plantation originated from adjacent private property; exact property lines are unknown.																																																																
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13	42110 - Planted Red Pine	Sawtimber Well	40.7	57	111-140	N/A	<p>Grazed in the early 1960s then planted to red pine in 1963. Current BA sits in the 120-150 range, 130 average. Stand received a marked thinning in 2003, Hoocky Koochy Red Pine, 52-122-02-01; third row thinned in 1995, 52-021-92-01 Berger Tire Red, also cut all merchantable aspen and hardwood.</p> <p>Black knot in cherry. Some dead cherry in canopy. Clumpy subcanopy: small beech thickets and clumps of red maple; cherry is somewhat consistent throughout but still a little clumpy. Couple pockets of deciduous in the canopy, mostly in the east (bta, rm, bc).</p> <p>Small linear non-forested opening through stand consists of raspberry, red pine saps, trace juniper, trace honeysuckle, knapweed, red maple (sap/pole), and black cherry (sap/pole).</p>																																																																																	
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14	42111 - Planted Red Pine, Mixed Deciduous	Poletimber Well	35.2	35	81-110	N/A	<p>Planted in 1984. Bigtooth clones present in pole/log/sap/xlog, generally. Scattered residual log/xlog black cherry throughout stand. To break it down further, approximately 3% xlog black cherry and 2% xlog red maple in the canopy.</p> <p>The quality of red pine varies but is decent where committed to red pine; still somewhat limby. Bracken understory under consistent red pine canopy.</p> <p>One pole juniper >20'.</p> <p>Larger pockets of deciduous species are Log/Pole/Xlog but shift to pole/sap with scattered Xlog when amongst more contiguous red pine. Far east has a small inclusion of quaking aspen, red maple, black cherry log/xlog/pole with red maple subcanopy.</p> <p>Observed trace jack pine (one living, two dead) and white pine. Trace beech saplings on edge of stand.</p>																																																																																	
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15	4130 - Aspen	Sawtimber Medium	3.7	66	51-80	N/A	<p>Trace black cherry, paper birch, sugar maple, elm in canopy. This is an upland ridge bowing along a lowland corridor with the west branch of the Minnehaha Creek. Upland portions are dominated by aspen and red maple with scattered white pine, balsam fir. Lowland and hillsides start transitioning to maple, yellow birch, and finally cedar on the bottom. Alder and dead black ash in bottom as well.</p> <p>A lot of mid-canopy red maple. Very south tip of stand is dominated by sap/pole white pine.</p> <p>BAs range 40-80, averaging 60.</p>																																																																																	
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16	122 - Road/Parking Lot	Nonstocked	10.6		Unspecified	No	Paved/maintained/lowed county roads (Berger, Greenwood, and Maxwell).																																																																																	



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17	4199 - Other Mixed Upland Deciduous	Sapling Medium	8.7	25	1-50	N/A	Mixed hardwood and aspen regen from 1995 final harvest. 52-026-92-01: clearcut aspen, hardwood except no conifers, juneberry, or trees marked with yellow. This was a difficult stand to represent numerically in MiFI. There are many species present in Sap/Pole/Log size classes, but it's overall a sapling stand - though MiFI won't accept that criteria. While overall sapling (dominated by QA, RM, and BC), there are scattered clumps of residual cherry, red and white pine, some QA (log/pole), and red maple. BTA clone north of two track, otherwise it's all QA. Appears as though the southwest was either excluded from harvest or had a lot of yellow-marked (leave) trees. Black knot in cherry.																																																																																											
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19	4116 - Mixed N. Hardwood - Aspen	Sawtimber Medium	7.4	80	51-80	N/A	Sparse stand of lesser quality hardwood and aspen. Could have been part of 1995 harvest: 52-026-92-01: clearcut aspen, hardwood except no conifers, juneberry, or trees marked with yellow. A rather unique stand. Stand is two-aged at the very least. Black cherry is consistent throughout the stand; red maple is also consistently present, but varies in density and size class. Sugar maple is a little clumpy. One white pine in canopy.																																																																																											
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																													
20	4130 - Aspen	Sapling Well	23.8	28	Immature	N/A	Black knot. A few weevilled white pine. North landing is an opening with shrubby black cherry, white pine, trace juniper, honeysuckle, and bracken. Some aspen edging into pole class, especially in the southwest; more honeysuckle in the southwest, too. Small pocket of multi-stemmed log/pole red maple, black cherry in southwest. More red maple and white pine regen in the north, replaced by cherry in the south.																																																																													
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21	42110 - Planted Red Pine	Poletimber Well	27.8	38	111-140	N/A	Planted in 1984. BAs range 100-160, averaging 125. Trace white pine, red maple, bigtooth aspen (aspen in SW leg only) in canopy. Red pine have 50% crowns and a nearly closed canopy. There are a couple scattered red pine already entering log-class with a few lingering in sapling. Increase in white pine saplings in southwest leg; trace red maple saps, too. Slight increase in balsam fir saplings in northwest island.																																																																													
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22	3303 - Mixed Low Density Trees	Nonstocked	15.7		Unspecified	No	Three very similar non-forested openings composed of cherry (pole/sap/log) and white pine (s/p/l) with scattered QA, RM, BF. There are a few rows of planted red pine in the center opening. Trace pin cherry, red pine, beech - not enough to list.																																																																													
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Stand **Level 4 Cover Type** **Size Density** **Acres** **Stand Age** **BA Range** **Managed Site** **General Comments**

23 42110 - Planted Red Pine Sawtimber Well 96.4 62 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Pine	85	Log/Pole	10	62
Black Cherry	7	Log/Pole	10	
Quaking Aspen	2	Log/Pole	10	
Red Maple	4	Pole/Log/Sap	7	
White Pine	1	Log/Pole	10	
Bigtooth Aspen	1	Log/Pole	10	

Sub-Canopy Species	Density	Avg. Height	Size
Witch Hazel	Trace	5 - 10 feet	Tall Shrub
Black Cherry	Medium	Variable	Sapling
Beech	Medium	5 - 10 feet	Sapling
Red Maple	Medium	Variable	Sapling
Ironwood	Trace	< 5 feet	Sapling
Bracken Fern	Medium	Unspecified	Non-Wood
Balsam Fir	Trace	Variable	Sapling
Red Pine	Trace	>20 feet	Sapling
Striped Maple	Trace	5 - 10 feet	Sapling

Stand is consistently red pine, barely sawlog class, with fairly evenly distributed cherry. BAs hover around 110. Cherry becomes more pole sized and increases in density in the southern half. Scattered stumps, some charred, in south half of stand also. Few pockets with aspen, especially in the west: one dense bta clone with an adjacent mixed red maple/quaking aspen/black cherry clump. Trace blueberry (perhaps more under the snow) and red oak seedlings in the south. Southeast corner is currently lesser stocked. Payment Units 2 & 3 of Burbot Red Pine, 52-107-12-01. Complete in February 2013. Northeast third of stand thinned in 2003 as Goat Food Red Pine, 52-110-02-01.

24 3105 - Mixed Upland Herbaceous Nonstocked 21.3 Unspecified No

Sub-Canopy Species	Density	Avg. Height	Size
Juniper	High	Variable	Tall Shrub
White Pine	Low	Variable	Sapling
Red Pine	Low	Variable	Pole
Spotted Knapweed	High	Unspecified	Non-Wood
Scotch Pine	Low	Variable	Sapling
Blackberry/Raspberry	Low	< 5 feet	Tall Shrub
Sugar Maple	Low	Variable	Sapling
Honeysuckle (spp.)	Trace	5 - 10 feet	Tall Shrub
Hazelnut (American)	Trace	5 - 10 feet	Tall Shrub
Black Cherry	Low	5 - 10 feet	Sapling
White Ash	Trace	< 5 feet	Sapling
Apple (spp.)	Trace	>20 feet	Log
Quaking Aspen	Trace	10 - 20 feet	Sapling
Balsam Poplar	Trace	10 - 20 feet	Sapling
Staghorn Sumac	Trace	5 - 10 feet	Tall Shrub
Basswood	Trace	>20 feet	Log
Beech	Trace	5 - 10 feet	Sapling
Bracken Fern	Low	Unspecified	Non-Wood
Ironwood	Trace	Variable	Sapling

Many trees are present in sapling/pole/log classes, not just sapling as indicated in the species list. There are pockets of dense hardwood regeneration, mostly confined to the northwest and south. "Super"canopy sugar maple and trace red maple overtopping an M2 in far northwest with juniper understory. Bit more black cherry in south and east; more sugar maple in north and west. One small red oak sapling in south.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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25	4130 - Aspen	Poletimber Well	17.0	28	Unspecified	N/A	<p>Far north island was exempt from harvest and consists of log BTA (60%) and QA (40%) with a fully stocked advanced red maple subcanopy with cherry.</p> <p>Significant red and white pine understory in north-central bubble.</p> <p>Trace jack pine, red maple, red oak, red pine, balsam fir in canopy. Few red oak saplings on south edge of stand. Far southwest 1/4-ac west of Berger Road is a small inclusion of mature timber that just needed a home.</p> <p>Aspen stand in transition from saplings to small poletimber from 1992 final harvest.</p> <p>Two Roads, 52-025-91-01, completed October 1992: clearcut aspen and hardwood, except no conifers, oak, black cherry, or juneberry. Small landing in east along north edge, about 1/2-ac, consisting of raspberry, bracken, jack pine, red pine, black cherry, and red maple.</p>		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Quaking Aspen	2	Sapling/Pole	4	28	White Pine	Medium		Variable	Sapling
Bigtooth Aspen	90	Pole/Sap/Log	6	28	Wild Raisin	Trace		5 - 10 feet	Tall Shrub
Black Cherry	3	Log/Pole	10		Maple Leaved Viburnum	Trace		< 5 feet	Tall Shrub
White Pine	5	XLog/Log/Pole	18		Black Cherry	Medium		Variable	Sapling
					Red Maple	High		Variable	Sapling
					Ironwood	Trace		5 - 10 feet	Sapling
					Serviceberry (Juneberry)	Low		>20 feet	Sapling
					Beech	Trace		5 - 10 feet	Sapling
					Blueberry/Bilberry/Cranberry	Trace		< 5 feet	Tall Shrub
					Red Pine	Trace		Variable	Sapling
					Red Oak	Trace		10 - 20 feet	Sapling
					Balsam Fir	Trace		Variable	Sapling

26	4139 - Aspen, Mixed Deciduous	Sawtimber Medium	8.1	52	1-50	N/A	<p>Stand consists of a grouping of non-forested openings filling in gradually with hardwood and pine. Log/Xlog hardwood (multi-stemmed) and aspen clones fill up the canopy with trace amounts of white pine, black cherry, and basswood. Very poor quality aspen.</p> <p>Southwest is full of hardwood saps.</p> <p>Wolfy, multi-stemmed hardwood character continues north out of this stand and into the adjacent M6.</p>		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Sugar Maple	47	Log/Pole/XLog	12	94	Sugar Maple	Medium		5 - 10 feet	Sapling
Red Maple	2	Pole/Log	8		Red Maple	Low		10 - 20 feet	Sapling
Quaking Aspen	1	Pole	8		Beech	Medium		Variable	Sapling
Bigtooth Aspen	48	Log/Pole	10	52	Ironwood	Low		Variable	Sapling
Balsam Fir	1	Log/Pole	12		Juniper	Trace		Variable	Tall Shrub
Ironwood	1	Pole	5		White Pine	Trace		10 - 20 feet	Sapling
					Serviceberry (Juneberry)	Low		Variable	Sapling
					Red Pine	Low		Variable	Sapling
					Striped Maple	Trace		Variable	Sapling
					Balsam Fir	Low		Variable	Sapling
					Bracken Fern	High		Unspecified	Non-Wood
					White Ash	Trace		< 5 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments									
27	3301 - Low Density Deciduous Trees	Nonstocked	1.6		Unspecified	No	Very high, steep hillside that has become a scramble area for ORV's and snowmobiles. Fair amount of exposed soil/sand with significant erosion occurring. Clumpy hardwood in the west half, not really represented in the species list.									
								Sub-Canopy Species	Density	Avg. Height	Size					
								Sugar Maple	Medium	>20 feet	Sapling					
								Elderberry	Trace	5 - 10 feet	Tall Shrub					
								Ironwood	Low	Variable	Sapling					
								Beech	Low	5 - 10 feet	Sapling					
								Blackberry/Raspberry	Low	5 - 10 feet	Tall Shrub					
								Bracken Fern	Low	Unspecified	Non-Wood					
								White Pine	Low	10 - 20 feet	Sapling					
								Red Maple	Trace	>20 feet	Sapling					
								Striped Maple	Trace	< 5 feet	Sapling					
								Juniper	Trace	< 5 feet	Tall Shrub					
28	4130 - Aspen	Poletimber Well	33.7	39	81-110	N/A	Red, white, and jack pine planted in 1938. Subsequent thinnings and a final harvest in 1979 have resulted in a mixed aspen and hardwood stand of nice quality. Nice natural pine regeneration within openings. Trace elm. Medium density leatherwood in the middle of the stand. Hawthorn, white ash, and balsam fir present in negligible amounts.									
								Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
								Sugar Maple	2	Pole	7		Red Pine	Low	Variable	Sapling
								Red Maple	1	Pole/Sapling	6		Honeysuckle (spp.)	Low	< 5 feet	Tall Shrub
								Bigtooth Aspen	55	Pole/Sap/Log	7	39	Black Cherry	Low	Variable	Tall Shrub
								Red Pine	5	Log/XLog	16	82	Beech	Trace	5 - 10 feet	Sapling
								Jack Pine	1	Log/Pole	10		Jack Pine	Trace	Variable	Sapling
								Black Cherry	2	Pole	6		White Pine	Trace	5 - 10 feet	Sapling
								Quaking Aspen	34	Pole/Sapling	6		Ironwood	Medium	Variable	Sapling
													Hazelnut (American)	Low	5 - 10 feet	Tall Shrub
													Leatherwood	Low	< 5 feet	Tall Shrub
													Red Maple	Medium	Variable	Sapling
29	4110 - Sugar Maple Association	Poletimber Well	364.1	63	51-80	N/A	Many areas were leased to grazing in the late '50s and early '60s, which is rather evident with distinct break between log class (92 years old) and pole (40-65 years old). 30 ac wildfire in 1959, evident in cohort of hardwood poletimber south of the red pine plantation. Small portion of east-central acreage with recorded treatment, likely salvage, in 1989. East half of stand is on somewhat steep terrain with variable aspects; some yellow birch in what could be moist draws. Stream corridor in north with little extraneous soil saturation; trace cedar and hemlock along stream (conifer picks up further west along stream). Trace elm, black cherry, balsam fir, BAM, red pine in canopy. Rare maple leaved viburnum, white pine, gooseberry, red pine, hemlock, black cherry in subcanopy. Stand consists of northern hardwoods, decent quality poles, lesser quality logs; areas of steep terrain. Lower BA found throughout most of the stand, 50-90, averaging 75. Interesting composition in far northeast: approx. 2 acres on west-facing slope dominated by paper birch with BW, QA, AB, RM, SM. Paper birch sparse but scattered elsewhere. BBD is progressing through the stand and, with it, areas of full beech regeneration. EAB came and went leaving only a few scattered surviving ash.									
								Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
								Sugar Maple	50	Pole/Log/XLog	8	63	Sugar Maple	Medium	Variable	Sapling
								Red Maple	2	Pole/Log	8		Balsam Fir	Trace	Variable	Sapling
								Yellow Birch	1	Pole/Sap/Log	6		Basswood	Trace	Variable	Sapling
								Basswood	29	Log/Pole	10		Beech	Medium	Variable	Sapling
								White Ash	2	Log/Pole	10		Ironwood	High	Variable	Sapling
								Beech	5	Log/Pole	12		Sugar Maple	Trace	< 5 feet	Seeding
								Quaking Aspen	4	Log/Pole	14		White Ash	Low	< 5 feet	Sapling
								Bigtooth Aspen	5	Log/XLog/Pole	14	92	Quaking Aspen	Trace	< 5 feet	Seeding
								Ironwood	1	Pole/Sapling	6		Striped Maple	Low	Variable	Sapling
								Paper Birch	1	Log/Pole/Sap	10		Serviceberry (Juneberry)	Trace	>20 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments									
30	3105 - Mixed Upland Herbaceous	Nonstocked	4.0		Unspecified	No	A mix of upland and lowland. Western opening is all upland dominated by bracken and juniper with some red pine and black cherry. Eastern opening is wet on the west side and filling in with pine in the east. Most tree species are present in pole, sapling, and log classes. Queen Ann's Lace; one basswood pole, trace beech, red oak, balsam fir saplings.									
								Sub-Canopy Species	Density	Avg. Height	Size					
								White Pine	Medium	Variable	Pole					
								Bracken Fern	Medium	Unspecified	Non-Wood					
								Red Pine	Medium	Variable	Pole					
								Juniper	Trace	< 5 feet	Tall Shrub					
								Spotted Knapweed	Low	Unspecified	Non-Wood					
								Blackberry/Raspberry	Low	< 5 feet	Tall Shrub					
								Boxelder	Trace	10 - 20 feet	Sapling					
								Black Cherry	Medium	Variable	Pole					
								American Elm	Low	>20 feet	Sapling					
								Hazelnut (American)	Low	5 - 10 feet	Tall Shrub					
								Honeysuckle (spp.)	Low	< 5 feet	Tall Shrub					
								Jack Pine	Trace	10 - 20 feet	Sapling					
								White Ash	Trace	< 5 feet	Sapling					
								Sugar Maple	Medium	Variable	Sapling					
								Quaking Aspen	Low	Variable	Sapling					
Paper Birch	Trace	>20 feet	Pole													
Balsam Poplar	Low	10 - 20 feet	Sapling													
31	6112 - Lowland Aspen	Poletimber Medium	27.7	85	51-80	N/A	Water feature shown in baselayers is sort of accurate but does not show all drainages. There's a prominent stream flowing through the center of the stand. A very wet stand; saturated soils. Areas with high sugar maple seedlings. Trace elm, trace pole balsam fir in canopy. Higher amount of balsam fir in southeast quarter of stand. Some blow down in sensitive soils. Grazing permits in the late '50s and early '60s.									
								Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
								Sugar Maple	6	Pole/Log	8		Sugar Maple	Low	>20 feet	Sapling
								Red Maple	15	Pole/Log/XLog	8		Red Osier Dogwood	Trace	< 5 feet	Tall Shrub
								Yellow Birch	5	Pole/Log	8		Ironwood	Medium	Variable	Sapling
								Quaking Aspen	60	Log/Pole/XLog	14	85	Sugar Maple	Low	< 5 feet	Seeding
								Balsam Poplar	1	Pole/Log/Sap	6		Beech	Low	5 - 10 feet	Sapling
								White Ash	3	Pole/Log	8		Yellow Birch	Trace	>20 feet	Sapling
								Northern White Cedar	1	Log/Pole	12		Northern White Cedar	Low	>20 feet	Pole
								Black Cherry	5	Pole/Log/Sap	6		Leatherwood	Trace	< 5 feet	Tall Shrub
								Basswood	2	Pole/Log	8		Serviceberry (Juneberry)	Trace	10 - 20 feet	Sapling
								American Elm	1	Log/Pole	10		Basswood	Trace	< 5 feet	Sapling
								Paper Birch	1	Pole	8		Witch Hazel	Trace	5 - 10 feet	Tall Shrub
													Hawthorn (spp.)	Trace	10 - 20 feet	Tall Shrub
													Blackberry/Raspberry	Low	< 5 feet	Tall Shrub
													Barberry	Trace	< 5 feet	Tall Shrub
													Hazelnut (American)	Medium	5 - 10 feet	Tall Shrub
					White Ash	Low	< 5 feet	Sapling								
					Black Cherry	Trace	5 - 10 feet	Sapling								
					Balsam Fir	Low	Variable	Sapling								
					Honeysuckle (spp.)	Trace	< 5 feet	Tall Shrub								



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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32 42110 - Planted Red Pine Sawtimber Well 95.0 85 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Pine	82	XLog/Log	18	85
White Pine	5	Pole/Log	8	
Sugar Maple	1	Pole/Log/Sap	8	
Red Maple	2	Sapling/Pole/Log	4	
Bigtooth Aspen	5	Pole	8	
Jack Pine	1	Pole	6	
Quaking Aspen	2	Pole/Sapling	7	
Black Cherry	2	Sapling/Pole	4	

Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	Medium	Variable	Sapling
Beech	Low	5 - 10 feet	Sapling
Bigtooth Aspen	Low	>20 feet	Sapling
White Pine	Medium	Variable	Sapling
Jack Pine	Low	Variable	Sapling
Red Maple	Medium	Variable	Sapling
Ironwood	Low	< 5 feet	Sapling
Balsam Fir	Trace	Variable	Sapling
Witch Hazel	Trace	5 - 10 feet	Tall Shrub
White Ash	Trace	Variable	Sapling
Red Pine	Trace	Variable	Sapling
Hazelnut (American)	Low	5 - 10 feet	Tall Shrub
Black Cherry	Low	5 - 10 feet	Sapling
Quaking Aspen	Trace	Variable	Sapling

Red, white, and jack pine planted in 1938 @ 700tpa. Large and very large diameter red pine sawtimber adjacent to county roads on the north and east sides. Most, if not all, of the red pine is very large and limby. Not utility pole quality. Advanced aspen and hardwood regen in understory. RP BAs range 40-90, consistently around 60; WP averages <10BA (with spikes), BTA and RM are clumpy with variable BAs. Overall average of 75. 2010 comments are honorable: "At this point, it doesn't make sense to damage or set back this understory to harvest lesser quality red pine sawtimber. Other red pine stands in this compartment [were recently] thinned, including the stand adjacent to the east of this stand. Some or all this red pine could be harvested when aspen/hardwood component is harvested in about 30 years."

33 4130 - Aspen Sapling Well 12.6 30 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Bigtooth Aspen	60	Pole/Sapling	5	30
Pin Cherry	6	Sapling/Pole	4	
Ironwood	2	Sapling/Pole	3	
Beech	2	Sapling/Pole/Log	4	
Red Maple	5	Pole/Sapling	6	
Quaking Aspen	15	Sapling/Pole	4	
White Ash	2	Sapling/Pole	4	
Black Cherry	3	Pole/Sapling	6	
Sugar Maple	5	Sapling/Pole/Log	3	

Sub-Canopy Species	Density	Avg. Height	Size
Pin Cherry	Low	>20 feet	Sapling
Balsam Fir	Trace	Variable	Sapling
Sugar Maple	High	Variable	Sapling
Serviceberry (Juneberry)	Trace	10 - 20 feet	Sapling
Beech	Low	Variable	Sapling
Ironwood	Trace	< 5 feet	Sapling
Red Pine	Trace	< 5 feet	Sapling
Striped Maple	Trace	Variable	Sapling
Basswood	Trace	< 5 feet	Sapling
Autumn Olive	Trace	5 - 10 feet	Tall Shrub
Juniper	Trace	< 5 feet	Tall Shrub
Prickly Or Wild Gooseberry	Trace	< 5 feet	Tall Shrub

Sugar maple is struggling to compete with aspen. Steeper hillsides are lesser stocked and heavier to hardwood. Hillsides in southeast are more open with beech, bracken, juniper. One pole red pine in canopy in southeast. Black cherry has better longevity than pin cherry and will likely remain a component of this stand longer than pin. Trace balsam fir in southwest. Trace raspberry still along two-track. Residual beech, sugar maple, and red maple scattered. Another couple of years and this will be solidly into a pole class, but it's not there just yet. Many areas are pole, but it's still overwhelmingly sapling.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																										
34	42110 - Planted Red Pine	Sawtimber Well	40.2	80	51-80	N/A	Red and jack pine planted in 1940 @ 800tpa. 40 acre stand of mostly red pine sawtimber, some of which are 18 -20 inch DBH in size, adjacent to private residences on three sides. Sparse amounts of jack pine poletimber, white pine, and aspen clones also present. Stand is adjacent to county roads on the north and west sides. Marked thinning in 2013 to remove larger diameter red pine and utility pole size class trees, releasing smaller diameter red pine. Protect emerging white pine in understory. Payment Unit 4 of Burbot Red Pine, 52-107-12-01. Complete in February 2013. Stand is developing into a multi-aged mixed stand. Trace black cherry in canopy. Trace amounts of white ash, ironwood, white spruce, sugar maple, quaking aspen, serviceberry, and witch hazel in subcanopy, none enough to make the list. Witness trees within stand. White pine and jack pine are more mid-canopy than canopy. More basal area of white pine than expected given its canopy occupation. Fairly consistent 10-20 BA of white pine crowded under the canopy of red pine. Southeast is more similar to barrens; more open with increased black cherry.																																																																										
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35	4130 - Aspen	Poletimber Well	28.8	30	Unspecified	N/A	Final harvest took place in 1990. Recently self-thinned (bigtooth and pin cherry have fallen out). Trace amounts of beech, basswood, red oak, paper birch, yellow birch, and white ash in the canopy. The sugar maple remaining in the canopy is mostly pole which must have been residual (and therefore advanced regen) after the 1990 harvest. Sugar maple resulting from the clearcut is largely suppressed now having been outcompeted. Drainage in the east including willow, honeysuckle, elm, red maple, and yellow birch. Trace scattered serviceberry, witch hazel in the understory as well.																																																																										
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37	6119 - Mixed Lowland Deciduous Forest	Poletimber Medium	5.5	68	1-50	N/A	Clumpy forested/non-forested stand with self-perpetuating yellow birch, aspen, red maple. There are a couple clumps of cedar and hemlock. Trace white pine on east perimeter of stand.																																																																																																			
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38	4130 - Aspen	Poletimber Well	20.1	39	51-80	N/A	Soil types converge in this stand: mancelona loamy sand, kalkaska sand, and blue lake loamy sand. Draining capacities and extent of slopes being the only difference (Kotar covertypes are extremely similar). Red, white, and jack pine planted in 1938 with subsequent thinnings so that only red pine remains from that original plantation. A 1981 final harvest resulted in regenerating aspen with hardwood; much of the hardwood has been outcompeted. There remain some scattered large diameter red pine and occasional clumps of log/Xlog hardwood (sugar maple and basswood) from the parent stand. Not enough to call it two-aged, however. Trace elm, red maple, paper birch, and red oak also present.																																																																																																			
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39	4131 - Aspen, Oak	Sawtimber Well	18.1	87	111-140	N/A	The original stand has been re-delineated to capture higher densities of aspen amongst red oak and mixed hardwood poletimber, all portions with high beech subcanopy (with varying amounts of striped maple and ironwood). Western portion of stand contains 60% BTA, 30% RO, and 10% RM/SM/BE. Central portion contains 55% RO, 40% BTA, and 5% SM/RM/BE. The eastern portion dominated by oak (55%) with 30% RM/BE/SM, and 15% BTA. BAs 100-130, except the eastern portion has slightly lower BAs (80-110). Trace basswood, typically on the perimeter as the stand transitions to more traditional hardwood. Stand occupies steep slopes and has very difficult access.																																																																																																			
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40	4130 - Aspen	Sapling Medium	16.7	5	Immature	N/A	Bigtooth and quaking aspen regen from 2015 harvest, on side of steep, west-facing slope. Payment Unit 1 of Llewellyn Aspen, 52-112-12-01, complete in June 2016. Northeast slopes were too steep to operate and were left unharvested. Dirtbike trail runs through stand. County Remonumented Corner in the north. Heavy browsing pressure on regeneration, especially maple. Occasionally residual sapling/pole sugar maple, beech, red oak. Saplings are mostly 5-10' at the time of inventory except for areas most affected by browsing. Not a lot besides raspberry and mullein in the west skid trails. West edge gets low, wet with some bulrush. Trace scotch pine, red pine on west perimeter.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Bigtooth Aspen		63	Sapling	1	5	Blackberry/Raspberry		Full	5 - 10 feet	Tall Shrub	
Beech		2	Sapling	1		Bracken Fern		Low	Unspecified	Non-Wood	
Pin Cherry		3	Sapling	1		Red Oak		Trace	< 5 feet	Seeding	
Red Maple		10	Sapling	1		Hazelnut (American)		Trace	< 5 feet	Tall Shrub	
Black Cherry		5	Sapling	1							
Quaking Aspen		10	Sapling	1							
Sugar Maple		5	Sapling	1							
Red Maple		1	Log/XLog	14							
Red Oak		1	Sapling	1							
41	42110 - Planted Red Pine	Sawtimber Well	43.5	60	111-140	N/A		Scattered northern hardwood poletimber (SM, BW, RM, BC) and sawlog trees (SM, BW, BTA) found within stand. East third of stand has slightly larger average diameters than rest of stand, maybe 12" dbh average vs 10 or 11. Stand was row-thinned in 2005. BAs range 60-140, averaging 110. ORV trail runs through stand. Porcupine present. Trace white spruce, red oak, basswood saplings also present in insignificant amounts. Far west island is very similar in density, though slightly smaller diameters on the red pine. Hardwood understory (a lot of beech and maple). Stand was thinned in 2005 as King Rd Red Pine, 52-108-02-01. Planted in 1960, 3-0 stock from Chittenden nursery.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species			Density	Avg. Height	Size
Sugar Maple		5	Log/Pole/XLog	14		Sugar Maple			High	10 - 20 feet	Sapling
Red Maple		2	Pole/Log/Sap	6		Prickly Or Wild Gooseberry			Trace	< 5 feet	Tall Shrub
Basswood		3	Log/XLog	14		Red Pine			Trace	< 5 feet	Sapling
Red Pine		90	Log/Pole	11	60	Beech			High	Variable	Sapling
						Quaking Aspen			Trace	>20 feet	Sapling
						Balsam Fir			Trace	Variable	Sapling
						Paper Birch			Trace	>20 feet	Pole
						Striped Maple			Medium	5 - 10 feet	Sapling
						Pin Cherry			Trace	5 - 10 feet	Sapling
						Serviceberry (Juneberry)			Trace	10 - 20 feet	Sapling
						Ironwood			Low	5 - 10 feet	Sapling
						White Ash			Low	Variable	Sapling
42	4130 - Aspen	Poletimber Well	6.6	43	51-80	N/A	Young aspen poletimber on steep, visible west-facing sideslope, from 1976 final harvest. A couple lingering ash in canopy, affected by EAB but have survived. Fairly consistent BTA overstory with oak. Trace red maple. Understory is a little varied depending on aspect, but it's generally occupied by sugar maple with varying densities of beech, striped maple. Rarely a red maple or pin cherry in the subcanopy.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Bigtooth Aspen		90	Pole/Log/Sap	7	43	Red Oak		Low	>20 feet	Sapling	
Red Oak		7	Pole/Sapling	6		Sugar Maple		High	Variable	Sapling	
White Ash		1	Pole/Sapling	6		Beech		Medium	Variable	Sapling	
Sugar Maple		2	Sapling/Pole	4		Striped Maple		Low	Variable	Sapling	
						Ironwood		Low	Variable	Sapling	
						White Ash		Low	>20 feet	Sapling	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
43	4110 - Sugar Maple Association	Sawtimber Well	36.9	90	81-110	N/A	Majority of the stand sits at 70-90 BA. Average of 78. Dead log/Xlog white ash contribute to the lower stocking. Trace elderberry and honeysuckle on top of hill. Trace understory/subcanopy red maple, serviceberry, hazelnut, gooseberry, leatherwood, and witch hazel - none present in any amount to list in the subcanopy. Trace red pine sapling (just one) and juniper in the southwest amongst Xlog/Log sugar maple. Poor quality P/S/L hardwood on steep west-facing slope with quite a bit of decent oak. 20 acres received a thinning in 1992, 52-021-89-01. By all appearances, this would have included the flatter ground and excluded the lowland in the southeast and the more severe terrain in the west and northwest especially. Lowland includes trace cedar, hemlock, cattails; increase in yellow birch in southeast associated with moist(er) soils. Paper birch confined to northwest on steep north-facing slope.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Sugar Maple	69	Log/Pole/XLog	10	90	Maple Leaved Viburnum	Low		Variable	Tall Shrub
Basswood	17	Log/Pole/XLog	12		Ironwood	Medium		Variable	Sapling
Red Oak	2	Pole/Log	8		Beech	Medium		Variable	Sapling
Beech	2	Log/Pole/XLog	12		Red Oak	Trace		< 5 feet	Sapling
Bigtooth Aspen	2	Log/XLog	14		White Ash	Low		< 5 feet	Sapling
Yellow Birch	1	Pole/Log	8		Balsam Fir	Trace		< 5 feet	Sapling
Quaking Aspen	3	Log	12		Striped Maple	Trace		5 - 10 feet	Sapling
Black Cherry	2	Log/Pole	10		Sugar Maple	Low		>20 feet	Sapling
Paper Birch	2	Log/Pole	10						
44	4110 - Sugar Maple Association	Sawtimber Medium	6.2	98	51-80	N/A		Small stand of mostly sugar maple sawtimber adjacent to county road/snowmobile trail. Stand was thinned in 2003 along with adjacent aspen stand. Subcanopy is well developed; a lot of aspen and mixed hardwood. BAs are variable, 10-70, averaging around 50.	
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density			Avg. Height
Sugar Maple	87	Log/Pole/XLog	12	98	White Ash	Medium	Variable		Sapling
Red Maple	2	Log/Pole	12		Red Maple	Trace	10 - 20 feet		Sapling
Bigtooth Aspen	1	Log	14		Bigtooth Aspen	Medium	>20 feet		Sapling
Basswood	10	Log/Pole	12		Ironwood	High	Variable		Sapling
					Yellow Birch	Low	>20 feet		Sapling
					Hazelnut (American)	Trace	5 - 10 feet		Tall Shrub
					Blackberry/Raspberry	Medium	< 5 feet		Tall Shrub
					Beech	Medium	Variable		Sapling
					Striped Maple	Trace	5 - 10 feet		Sapling
					Basswood	Low	Variable		Sapling
					Honeysuckle (spp.)	Medium	< 5 feet		Tall Shrub
					Red Oak	Trace	< 5 feet		Sapling
					Hemlock	Trace	10 - 20 feet		Sapling
					Balsam Fir	Trace	10 - 20 feet	Sapling	
45	42110 - Planted Red Pine	Sawtimber Well	4.9	63	111-140	N/A	Maple are multi-stemmed. Couple balsam fir and one white spruce observed in subcanopy. Little bit of wetness to southwest corner: hosts trace boxelder (10-20'). Standing water to south of road in adjacent compartment and onto private. Stand was row-thinned in 1995. Part of stand is now under lease with adjacent tower site. Stand was marked and thinned in 2013. Planted in 1960, 3-0 red pine @ 750 tpa. Payment Unit 5 of Burbot Red Pine, 52-107-12-01. Complete in March 2013.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Pine	98	Log/Pole	10	63	Sugar Maple	Low		Variable	Sapling
Sugar Maple	1	XLog/Log	18		Beech	High		Variable	Sapling
Red Maple	1	Pole/Log	8		White Ash	Low		< 5 feet	Sapling
					Maple Leaved Viburnum	Trace		< 5 feet	Tall Shrub
					Red Maple	Low		5 - 10 feet	Sapling
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					Ironwood	Low		Variable	Sapling
					White Pine	Trace		< 5 feet	Sapling
					Red Oak	Trace		< 5 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
46	4130 - Aspen	Sapling Well	27.1	17	Unspecified	N/A	High quality aspen regen from 2003 final harvest, Big Bird Red Pine, 52-103-02-01. Fairly solid aspen canopy with scattered hardwood. Trace yellow birch, pin cherry, white ash, elm in canopy; trace balsam fir, white pine, red oak residual from harvest. Landing in central east has trace amount of red pine saplings and juniper. White pine regen confined to east within close proximity to log white pine.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Bigtooth Aspen	89	Sapling/Pole	4	17	White Pine	Trace		Variable	Sapling
Ironwood	2	Sapling	2		Maple Leaved Viburnum	Trace		< 5 feet	Tall Shrub
Red Maple	1	Sapling	3		Sugar Maple	High		Variable	Sapling
Sugar Maple	4	Sapling	2		Prickly Or Wild Gooseberry	Trace		< 5 feet	Tall Shrub
Red Oak	1	Pole/Log/Sap	6		Ironwood	Low		Variable	Sapling
Quaking Aspen	1	Sapling	3		Balsam Fir	Trace		Variable	Sapling
Paper Birch	1	Sapling/Pole	3		Beech	Low		5 - 10 feet	Sapling
Black Cherry	1	Sapling/Pole	3		Blackberry/Raspberry	Low		5 - 10 feet	Tall Shrub
					Pin Cherry	Trace		10 - 20 feet	Sapling
					Striped Maple	Trace		10 - 20 feet	Sapling
					White Ash	Trace		Variable	Sapling
					Red Maple	Trace		5 - 10 feet	Sapling
47	4110 - Sugar Maple Association	Sawtimber Well	203.3	85	81-110	N/A		Stand consists of northern hardwood poletimber/sawtimber on many extremely high, steep slopes posing operational challenges. Slightly lower BA at present. A few of the lower accessible valleys were thinned in the late 1970s and again in 1980 with an elm salvage. Average BA = 96, though highly variable throughout stand. Mortality from EAB and BBD. Much more elderberry in south on plateau; more elm, too (probably couldn't get to it in '80 salvage). Valleys in northeast hold all the hemlock. Trace sapling hemlock in stand, too. Trace cherry: saw one black cherry (dead) and one pin cherry (pole, live). Red oak confined to extreme west and southwest. A lot of poles throughout stand, especially in the center and west.	
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height		Size
Sugar Maple	60	Log/Pole	10	85	Sugar Maple	Low	>20 feet		Sapling
Basswood	26	Log/Pole	10		Basswood	Trace	5 - 10 feet		Sapling
White Ash	2	Log/Pole	12		White Ash	Low	< 5 feet		Sapling
Beech	5	Log/Pole/XLog	14		Beech	Medium	Variable		Sapling
Red Oak	1	Log/XLog	14		Ironwood	High	Variable		Sapling
Bigtooth Aspen	2	XLog/Log	18		Prickly Or Wild Gooseberry	Trace	< 5 feet		Tall Shrub
Ironwood	2	Pole/Sapling	6		Striped Maple	Trace	5 - 10 feet		Sapling
American Elm	1	Log/Pole/XLog	14		Elderberry	Low	< 5 feet		Tall Shrub
Hemlock	1	Log/XLog	15		Maple Leaved Viburnum	Low	< 5 feet		Tall Shrub
					Hemlock	Trace	>20 feet		Pole
48	3102 - Grass	Nonstocked	0.9		Unspecified	No	Accessible from north. Edges filling in with hardwood. Scattered pine and juniper throughout opening.		
Sub-Canopy Species	Density	Avg. Height	Size						
Sugar Maple	Medium	Variable	Sapling						
Bracken Fern	Low	Unspecified	Non-Wood						
Blackberry/Raspberry	Low	< 5 feet	Tall Shrub						
Red Pine	Low	Variable	Sapling						
Ironwood	Low	Variable	Sapling						
Spotted Knapweed	High	Unspecified	Non-Wood						
Juniper	Trace	Variable	Tall Shrub						
White Pine	Low	5 - 10 feet	Sapling						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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49 4112 - Maple, Beech, Cherry Association Sapling Well 21.9 7 Immature N/A

Canopy Species	% Cover	Size Class	DBH	Age
Pin Cherry	10	Sapling	1	
Red Maple	58	Sapling/Pole	1	7
Beech	17	Sapling/Pole	1	
Sugar Maple	5	Sapling/Pole	1	
Ironwood	2	Sapling	1	
Black Cherry	3	Sapling/Pole	1	
Red Pine	5	Log/Pole	14	80

Sub-Canopy Species	Density	Avg. Height	Size
Blackberry/Raspberry	High	< 5 feet	Tall Shrub
Red Pine	Medium	Variable	Sapling
Maple Leaved Viburnum	Low	< 5 feet	Tall Shrub
Beech	Medium	< 5 feet	Tall Shrub
Jack Pine	Trace	5 - 10 feet	Sapling
Bracken Fern	Low	Unspecified	Non-Wood
Sugar Maple	Low	< 5 feet	Tall Shrub

Northern hardwood regen from 2013 red pine final harvest. Two small unharvested red pine retention islands (origin 1940) are also present within stand, few red pine left along Joy Ln, represented as 5% log RP. 2013 progeny are 1" saplings yet (current 2019), but there are scattered larger saps and small poles that remain, having been an advanced understory component of the parent red pine plantation. There was some decent natural RP regeneration in response to the harvest, but any pine outside of skid trails or the landing are becoming quickly suppressed by hardwood. Few RP and JP saps are in the sapling canopy. Trace RO (pole) scattered throughout stand. 1 small pole YB on north edge against private. Sugar maple is very obviously a preferred browse species as most have been browsed to nothing. South retention island: RP log with trace SM, RM, BE logs; WS, BE, SM, Striped maple subcanopy, 100BA. North retention island: RP log with trace RM log/poles, 1 WP and scattered dead JP, ~90 BA. Honeysuckle, knapweed, bracken, J/RP, cherry occupying landing. Hazel's Red Pine (52-110-12-01), complete in January 2013.

50 3205 - Mixed Upland Shrub Nonstocked 2.3 Unspecified No

Sub-Canopy Species	Density	Avg. Height	Size
Spotted Knapweed	Low	Unspecified	Non-Wood
Hawthorn (spp.)	Trace	5 - 10 feet	Tall Shrub
Red Pine	Medium	Variable	Sapling
White Pine	Trace	10 - 20 feet	Sapling
Bracken Fern	Medium	Unspecified	Non-Wood
Sugar Maple	Trace	>20 feet	Sapling
Pin Cherry	Medium	Variable	Sapling
Red Oak	Trace	>20 feet	Log
Blackberry/Raspberry	Trace	< 5 feet	Tall Shrub
Red Maple	Medium	Variable	Sapling
Honeysuckle (spp.)	High	Variable	Tall Shrub
Serviceberry (Juneberry)	Trace	10 - 20 feet	Sapling
Jack Pine	Low	>20 feet	Sapling
Quaking Aspen	Low	>20 feet	Pole
Beech	Medium	Variable	Sapling
Ironwood	Low	>20 feet	Sapling
Black Cherry	Low	>20 feet	Pole
Red Maple	Medium	>20 feet	Pole

This is becoming a forested stand and should be managed if desiring to keep the non-forested status. This stand has been used as a landing for decked wood in the past and has been filling in with red/jack/white pine, aspen, and hardwood ever since. East end is far more mature, more pole aspen and jack pine.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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51	42110 - Planted Red Pine	Sawtimber Well	25.1	80	81-110	N/A	Trace elm, jack pine in canopy. There are a couple of old road beds through this stand. Paper birch, pin cherry, serviceberry, striped maple, and red oak saplings are rarities. Southwest corner is a small lowland inclusion with pole/sap balsam fir, quaking aspen, red maple, black ash, basswood, white cedar, and elm with an opening (formerly black ash sap/pole) containing alder, cattails. Hardwood/aspen opening in north center containing red maple, sugar maple, quaking aspen, and black cherry. Stand was thinned in 2004, Nomo Red Pine 52-128-02-01. 1940 planting of red and jack pine; received a light thinning in 1980, thinned again in 2004.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Pine	93	Log/Pole	15	80
Black Cherry	1	Log/Pole	12	
Red Oak	1	Pole/Log/Sap	8	
Red Maple	2	Pole/Log	8	
Sugar Maple	2	Log/Pole	10	
Beech	1	Pole	6	

Sub-Canopy Species	Density	Avg. Height	Size
Black Cherry	Low	Variable	Tall Shrub
Beech	High	Variable	Sapling
Red Maple	Low	5 - 10 feet	Sapling
Ironwood	Low	10 - 20 feet	Sapling
Balsam Fir	Low	Variable	Sapling
Sugar Maple	Trace	Variable	Sapling

52	3105 - Mixed Upland Herbaceous	Nonstocked	9.5		Unspecified	No	Fairly consistent juniper, red pine, and black cherry across the opening with clumps of variable diameter hardwood.
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Sub-Canopy Species	Density	Avg. Height	Size
Spotted Knapweed	Full	Unspecified	Non-Wood
Black Cherry	Medium	>20 feet	Pole
Red Maple	Trace	Variable	Sapling
Sugar Maple	Low	Variable	Sapling
Red Pine	Medium	Variable	Sapling
Beech	Trace	Variable	Sapling
Juniper	Low	< 5 feet	Tall Shrub
Staghorn Sumac	Trace	5 - 10 feet	Tall Shrub
Blackberry/Raspberry	Trace	< 5 feet	Tall Shrub
Red Oak	Trace	Variable	Sapling
Quaking Aspen	Trace	>20 feet	Sapling
Ironwood	Trace	Variable	Sapling
Basswood	Trace	>20 feet	Pole
American Elm	Low	>20 feet	Log

53	4130 - Aspen	Poletimber Well	8.6	39	51-80	N/A	Result of 1981 final harvest. A significant amount of log-sized maple, cherry, couple beech along the south perimeter, likely visual management along Newson Road and private residences. Scattered (trace) red oak pole though stand. Drainage through southern island. North island has a bit smaller average diameter and is mostly aspen with cherry and maple, some more beech saplings. East end of north island however is dominated by sap/pole hardwood - RM, BC, PC, SM with some QA.
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Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	5	Log/Pole/Sap	10	
Quaking Aspen	20	Pole/Sapling	6	39
Bigtooth Aspen	60	Pole	7	39
Red Maple	10	Pole/Log	8	
Black Cherry	3	Log/Pole	10	
Red Pine	2	Log/Pole	14	

Sub-Canopy Species	Density	Avg. Height	Size
Serviceberry (Juneberry)	Trace	10 - 20 feet	Sapling
Balsam Fir	Low	Variable	Sapling
Beech	Low	Variable	Sapling
Black Cherry	Low	Variable	Tall Shrub
Sugar Maple	Low	Variable	Sapling
Maple Leaved Viburnum	Low	< 5 feet	Tall Shrub
Red Oak	Trace	>20 feet	Sapling
Pin Cherry	Trace	>20 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
54	4111 - S.Maple, Hard Mast Association	Poletimber Well	294.3	90	81-110	N/A	White ash is dead standing; rarely a living ash. Trace black cherry (mostly in south), elm, yellow birch, paper birch (in SE), and white pine (just one in east). All together those species may make up 2% of the canopy. Red pine is confined to the west edge. Could possibly call this a log stand. Surprising consistency to this stand with the exception of a few aspen clones and areas with increased beech densities. There's a tiny non-forested inclusion just to the north of the center section with sapling juneberry (>20') and bracken fern. Oak is generally in the east and on the ridges with a few exceptions in the south. Yellow birch and red pine pick up in southwest and west; bit more balsam fir in southwest too with trace hemlock - present in log and sapling classes. Scattered pockets dominated by 4" ironwood sapling/pole. Clumpy beech brush - full in areas (usually on south facing slopes), low in others. BAs range 50-100, with an 80 average.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Sugar Maple	48	Pole/Log/XLog	8	90	Sugar Maple	Low		>20 feet	Sapling
Basswood	30	Log/Pole	10		Basswood	Trace		< 5 feet	Sapling
Beech	10	Pole/Log/XLog	8		White Ash	Low		< 5 feet	Sapling
Bigtooth Aspen	4	Log/Pole	12		Beech	Medium		Variable	Sapling
Red Pine	1	Log/Pole	12		Ironwood	Medium		Variable	Sapling
Red Oak	1	Pole/Log/XLog	8		Balsam Fir	Trace		Variable	Sapling
Quaking Aspen	1	Log	14		Hazelnut (American)	Trace		< 5 feet	Tall Shrub
Ironwood	3	Pole/Sapling	6		Serviceberry (Juneberry)	Trace		>20 feet	Sapling
Red Maple	2	Log/Pole	10		Maple Leaved Viburnum	Trace		< 5 feet	Tall Shrub
					Yellow Birch	Trace		>20 feet	Sapling
					Red Oak	Trace		Variable	Sapling
					Striped Maple	Low		Variable	Sapling
55	4112 - Maple, Beech, Cherry Association	Poletimber Well	28.3	55	51-80	N/A	Significant BBD damage - snap and deterioration. Poor quality beech occupying south-facing hillside. One serviceberry in canopy. Lot of deer and turkey activity. Few scattered dead white ash. Bear sign on beech. Far west sits on a little plateau and is dominated by sawlogs. Trace basswood on perimeter of stand. BAs are generally 40-70, but a couple spikes, especially on plateau and stand edges.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Sugar Maple	10	Pole/Log/Sap	6		Sugar Maple	Trace		>20 feet	Sapling
Bigtooth Aspen	10	Log/Pole	14	82	Ironwood	Low		10 - 20 feet	Sapling
Red Maple	25	Pole/Log/XLog	8		Yellow Birch	Trace		>20 feet	Sapling
Beech	50	Pole/Log/Sap	6	55	Beech	Full		Variable	Sapling
56	4110 - Sugar Maple Association	Sawtimber Well	57.5	90	51-80	N/A	Selection harvest complete in June 2014, Eelpout MBF, 52-106-12-01. All ash and beech were also harvested, leaving only maple and basswood. The north end of this stand is a very steep north-facing slope, inoperable and unaccessible. Trace red oak (Xlog) and yellow birch (log) on hillside, <1% of total canopy. One walnut sapling in the northeast in a sea of white ash saplings, courtesy of mature black walnut planted on private property to the north. Some areas with advanced beech regeneration, almost pole, unaffected during harvest. Two classes of sapling regen: those which are browsed (<4') and those which are not (>5'). Few successful basswood sprouts from living basswood; trace elsewhere. Lot of raspberry >5' still. Elm salvage in 1980.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Sugar Maple	80	Log/Pole/XLog	12	90	Sugar Maple	Medium		< 5 feet	Seeding
Basswood	20	Log/Pole	12		Basswood	Trace		10 - 20 feet	Sapling
					White Ash	High		Variable	Sapling
					Beech	Medium		Variable	Sapling
					Ironwood	High		Variable	Sapling
					Striped Maple	Trace		10 - 20 feet	Sapling
					Black Cherry	Trace		5 - 10 feet	Sapling
					Black Walnut	Trace		5 - 10 feet	Sapling
					Prickly Or Wild Gooseberry	Trace		< 5 feet	Tall Shrub
					Elderberry	Trace	< 5 feet	Tall Shrub	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
57	4130 - Aspen	Sapling Poor	33.6	4	Immature	N/A	Payment Units 2 & 3 of Llewelin Aspen, 52-112-12-01, complete in August 2016. Regeneration is poor at best and hurting for diversity. What hardwood is present is heavily browsed and <2'. Thistle, knapweed, and mullein are consistent throughout the stand. Trace upland BAM in the north. There's a little knob between the retention pockets with dense juniper, shrubby beech, and striped maple. One residual white pine (Xlog) in the southeast. Some residual saplings and poletimber in north, mostly sugar maple and some ironwood, left from harvest. North retention pocket consists of SM (l/p), BW (l/p), one log balsam fir, with pole red maple, beech, and ironwood. Subcanopy is WA, SM, BF, BE, BW, striped maple. South retention pocket consists of SM (l/p), BW (log), QA (log), IW (pole) with sapling ironwood, beech, trace white pine.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Quaking Aspen	45	Sapling	1	4	Blackberry/Raspberry	Full		5 - 10 feet	Tall Shrub
Bigtooth Aspen	47	Sapling	1	4	Beech	Medium		< 5 feet	Tall Shrub
Red Maple	2	Sapling	1		Ironwood	Medium		< 5 feet	Tall Shrub
Beech	5	Sapling	1		Juniper	Trace		< 5 feet	Tall Shrub
Sugar Maple	1	Sapling/Pole	3		Sugar Maple	Low		< 5 feet	Tall Shrub
					Bracken Fern	Low		Unspecified	Non-Wood
					Basswood	Trace		< 5 feet	Seeding
					Hawthorn (spp.)	Trace		< 5 feet	Tall Shrub
					Red Maple	Low		< 5 feet	Tall Shrub
58	4116 - Mixed N. Hardwood - Aspen	Sawtimber Well	21.2	85	51-80	N/A		Trace red maple, black cherry, and red pine in canopy. A lot of sugar maple in the upper pole-sized range. More aspen in the north central portion. Trace white pine on edge of stand 24 in the northwest. Observed one small clump of white spruce saplings <5'; one striped maple. BAs range 30-90, 70 average. Small opening in the northwest on a tiny hilltop consists of juniper, raspberry, knapweed, ironwood, and bracken; trace gooseberry.	
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density			Avg. Height
Sugar Maple	44	Log/Pole	12	85	Sugar Maple	Medium	Variable		Sapling
Yellow Birch	3	Pole/Log	8		Maple Leaved Viburnum	Trace	< 5 feet		Tall Shrub
Basswood	30	Log/Pole	10		Basswood	Trace	< 5 feet		Sapling
Beech	2	Log/Pole	12		Beech	Medium	Variable		Sapling
Quaking Aspen	5	Log	12		Ironwood	Medium	Variable		Sapling
Bigtooth Aspen	15	Log/XLog	16		White Ash	Low	< 5 feet		Sapling
Ironwood	1	Pole/Sapling	6		Balsam Fir	Trace	Variable		Sapling
					Juniper	Trace	< 5 feet		Tall Shrub
					Yellow Birch	Trace	>20 feet		Sapling
					Red Pine	Trace	5 - 10 feet		Sapling
					Sugar Maple	Medium	< 5 feet		Seeding
					Hazelnut (American)	Trace	< 5 feet	Tall Shrub	
59	4123 - Red Oak	Sawtimber Well	31.1	94	51-80	N/A	Eastern plateau dominated by basswood and sugar maple with white ash and elm (mortality in both ash and elm). Trace canopy elm, quaking aspen, ironwood, and paper birch, scattered. Hilly terrain, generally holding 50-60% slope, rather steep (>60%) in areas. Moist draws produce decent quality yellow birch. Much of the ash component that used to occupy the canopy is now dead (EAB). Significant browse on preferred subcanopy species, especially oak, sugar maple, basswood, and elderberry. Oak appears two-aged in some areas with a notable Xlog class anywhere from 24" on up. Lower BAs, 40-80 (occasionally 100), averaging 65.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Sugar Maple	20	Pole/Log	8	94	Sugar Maple	Low		Variable	Sapling
Basswood	3	Log/Pole	10		Basswood	Trace		< 5 feet	Sapling
White Ash	2	Log/Pole	12		White Ash	Low		< 5 feet	Sapling
Beech	3	Log/Pole	10		Beech	Low		Variable	Sapling
Bigtooth Aspen	10	Log/Pole/XLog	14		Ironwood	Medium		Variable	Sapling
Red Oak	60	Log/Pole/XLog	14	94	Striped Maple	Low		Variable	Sapling
Yellow Birch	2	Pole/Log	8		Maple Leaved Viburnum	Trace		< 5 feet	Tall Shrub
					Elderberry	Trace		< 5 feet	Tall Shrub
					Red Oak	Trace		< 5 feet	Seeding



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																																
60	4123 - Red Oak	Poletimber Well	36.1	85	81-110	N/A	The east half of this stand is on very steep slopes (40-60% slopes) occupied by stout pole red oak with scattered sugar maple, red maple, basswood, and dead ash. BAs on slope range 50-100, averaging 72. The western half of this stand gets much flatter, likely with increased mineral deposits, and supports more log-sized hardwood, still dominated by oak, but with much higher stocking of sugar maple, basswood, red maple, and beech. BAs here range 80 to 110. Trace elm and ironwood in the canopy. Rarely a pin cherry or serviceberry. There are no records of management in this stand, though it would appear that the western accessible slopes were managed a long time ago, possibly in the mid-1900s.																																																																																
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61	4116 - Mixed N. Hardwood - Aspen	Sawtimber Well	8.5	85	51-80	N/A	Trace basswood, paper birch, beech, and white ash in canopy. Trace white cedar seedlings and hemlock saplings in subcanopy. There is a prominent water course running through this stand. Also an old road bed, possibly railroad. Scattered dead ash and significant down woody debris. Seeps on southern hillside (north facing). The (south)western portion of this stand is a cedar stand with yellow birch; the extreme southwest has a full stocking of hemlock with supercanopy red maple and yellow birch. Elsewhere, cedar and hemlock are consistent and scattered amongst deciduous species, sort of clumpy in their composition.																																																																																
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
63	4199 - Other Mixed Upland Deciduous	Sapling Well	5.9	30	1-50	N/A	Sugar maple is present in sapling/pole sizes, but unable to represent "super" canopy sugar maple if I tried to enter it that way. There's a distinct break between the classes of what was harvested in 1990 and the residual timber. 10-40 BA residual Log/Xlog sugar maple and basswood. Also notable is that there is solid sugar maple regeneration underneath residual basswood. Mortality in white ash. Trace scotch pine, balsam fir, paper birch on southwest perimeter. Trace black cherry, beech present elsewhere. One white pine in the subcanopy.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Sugar Maple	50	Sapling	3	30	Sugar Maple	Medium		Variable	Sapling
Red Maple	1	Pole/Sapling	6		White Ash	Low		Variable	Sapling
Yellow Birch	2	Pole/Sap/Log	6		Basswood	Trace		< 5 feet	Sapling
Basswood	5	Log/XLog/Pole	14		Beech	Medium		10 - 20 feet	Sapling
White Ash	1	Sapling/Pole	4		Ironwood	Low		Variable	Sapling
Paper Birch	1	Log/Pole	10		Juniper	Low		< 5 feet	Tall Shrub
Quaking Aspen	25	Pole/Sap/Log	6		Balsam Fir	Trace		< 5 feet	Sapling
Ironwood	5	Sapling/Pole	3		Maple Leaved Viburnum	Trace		< 5 feet	Tall Shrub
Sugar Maple	10	Log/XLog	14	96	Red Pine	Trace		5 - 10 feet	Sapling
64	4110 - Sugar Maple Association	Sapling Well	1.5	26	Immature	N/A		It's possible that this stand resulted from a salvage in 1976. Exact property lines are unknown. 10-20 BA of log/pole-timber, 2-aged.	
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density			Avg. Height
Scotch Pine	5	Pole/Sapling	6		Sugar Maple	Medium	Variable		Sapling
Ironwood	1	Sapling	3		White Pine	Low	10 - 20 feet		Sapling
Black Cherry	4	Pole	8		Beech	Medium	< 5 feet		Sapling
White Pine	5	Pole/Log	8		Bracken Fern	Trace	Unspecified		Non-Wood
Basswood	1	Log	12	56	Balsam Fir	Trace	< 5 feet		Sapling
Red Maple	2	Pole	6						
Sugar Maple	77	Sapling	2	26					
Sugar Maple	5	Log	10						
65	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	11.6	90	51-80	N/A	Significant seep with white cedar, yellow birch, and cattails in the north. Planted red pine (1940 origin) along the north and east perimeter. Trace beech, white ash, and red oak in the canopy. BAs range 60-90, averaging 78. Two apple trees in the northwest at the bottom of the seep. Areas with fairly dense sugar maple saplings >20'. A very wet stand with seeps and perennial streams except the red pine along the north and east are on high and dry hillsides. Could be upland with lowland - would need to observe in snow-off conditions.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Sugar Maple	35	Pole/Log/Sap	6	90	Sugar Maple	Medium		Variable	Sapling
Basswood	2	Pole/Log/Sap	7		Prickly Or Wild Gooseberry	Trace		< 5 feet	Tall Shrub
Yellow Birch	3	Pole/Sap/Log	6		White Ash	Medium		< 5 feet	Sapling
Quaking Aspen	25	Pole/Log/Sap	8		Beech	Low		Variable	Sapling
Black Cherry	1	Pole/Log/Sap	6		Ironwood	Medium		Variable	Sapling
Red Maple	2	Log/Pole	10		Maple Leaved Viburnum	Trace		< 5 feet	Tall Shrub
Red Pine	25	Log/Pole	14	80	Beech	Trace		>20 feet	Pole
Ironwood	2	Pole/Sapling	5						