



Compartment Review Presentation

Gaylord Forest Management Unit

Compartment 52153

Entry Year 2021

Acreage: 1,422

County Cheboygan

Management Area: Cheboygan Lake Plain

Revision Date: 2019-04-17

Stand Examiner: Tricia St. Pierre

Legal Description:

T34N R03W

Section 1: NE, N1/2SW

Section 2: W1/2, N1/2NE, SWNE

Section 11: W1/2; all that part of the N1/2 NE1/4 lying E'ly of the Sturgeon River, that part of NE1/4 lying W'ly of Sturgeon River within described boundaries; all that part of the SE1/4 NE1/4 lying E'ly of Sturgeon River

Section 14: NWNE, North 55 feet of that part of NE1/4 of NE1/4 lying W'ly of Highway US 27, NW, W1/2SW, SESW

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. To promote native species whenever and wherever appropriate and reasonable to coincide with multiple uses and management objectives across the landscape.

Soil and topography:

Topography across this compartment is generally flat, a result of sand deposits on lake plains with few terraces. There are some gentle morainal hills in the south and eastern portions of this compartment.

Soils are composed primarily of excessively drained sandy soils on flat to gently sloping terrain. Exceptions are in the far east and southern portions of this compartment and along the Berry Creek corridor.

Rubicon and Grayling sands are the most prominent soil types, both excessively drained and supporting pine (red and jack, but white also) and, to a lesser extent, oak and aspen. Where soils improve in quality, higher quality hardwood, red pine, white pine, and aspen are the dominant covertypes, supported by loamy sands. These loamy sands tend to be hillier, though lacking significant changes in elevation.

There are various mucks along the Berry Creek corridor, poorly drained and prone to flooding. These mucks generally support lowland conifer and aspen with mixed oak and red maple. There are also some sands along the creek corridor that are currently flooded from beaver activity.

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

Ownership is consolidated within one major block of State ownership with three outlying blocks, all three contiguous within themselves but largely surrounded by private. There are many developed residential properties adjacent to this compartment. Further fragmentation of private ownership is unlikely.

Land use within this compartment is largely recreational, with motorized vehicles dominating. Private property is largely residential. There is very little "working forest" or agriculture on the private side of the line. Most parcels host permanent residences, though there are scattered seasonal homes.

Unique Natural Features:

The Sturgeon River is a Natural Feature requiring consideration when managing the surrounding natural resources.

There are known occurrences of Red Shouldered Hawk and Bald Eagle within the compartment. Adjacent to and having potential for occurrences are Hill's Thistle, Alleghany (Sloe) Plum, Ram's Head Lady Slipper, and Dusted Skipper.

The recurring flooding following beaver damming of Berry Creek is a somewhat cyclical and naturalized feature for this compartment. There have been some salvage efforts in the past to retrieve a dying resource, but in general, the stands most affected by the periodic flooding have died and subsequently regenerated by local seed sources, primarily white pine, balsam fir, and red maple. It seems as though wildlife has helped scatter acorns for the occasional oak, as well.

Archeological, Historical, and Cultural Features:

There are some atrophied rail beds, but no known historical or cultural features or artifacts exist. There is potential for historical features in adjacent compartments.

Special Management Designations or Considerations:

An automated weather data collection station is located in section 2 and is designated as stand 23.

Proposed SCA to recognize localized area of relic pine.

Oak wilt should be a major consideration for all treatments in this compartment, whether commercial or not.

Watershed and Fisheries Considerations:

Sturgeon River
Berry Creek - active beaver flooding

Wildlife Habitat Considerations:

Observed deer, fox, bear, coyote, hare, grouse, turkey, bobcat, owls (barred, great horned), eagle, hawks (red shouldered, goshawk, beaver, and various small mammals utilizing the habitats in this compartment.

Mineral Resource and Development Concerns and/or Restrictions

Sections 1-2, 11, & 14-15, T34N-R3W and Section 6, T34N-R2W, Cheboygan County
The nearest active sand/gravel pit is located two miles to the southeast, and there is good sand potential within the compartment. The compartment is several 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. There is no known metallic mineral potential in this part of the state.

Vehicle Access:

There are a lot of roads and trails throughout this compartment allowing for excellent access during snow-off conditions. However accessible, the majority of these roads are extremely sandy and generally require extensive fill and/or reshaping for anything heavier than a passenger vehicle. Two designated snowmobile trails limit wheeled vehicle access during the snowmobile season.

Survey Needs:

It would be beneficial to have the southwest-quarter of Section 14 surveyed. The center-section corner is in. There is evidence of "corners", but nothing definitive could be found.

Recreational Facilities and Opportunities:

ORVs, ATVs, dirtbikes, and snowmobiles are prolific year-round in the appropriate seasons. A recreational trail parking lot is located in this compartment also, providing access to Snowmobile Trail 767, a 50" ATV trail, an ORV Route, and the MCCCT (Motorcycle Trail). The North Central State Trail also passes through this compartment, offering non-motorized recreation from April through November and snowmobiling from December through March. Hunting pressure is also very high in this compartment given its proximity to the community. In addition to trails and hunting, access to the Sturgeon River gives this compartment additional recreational opportunities. The Sturgeon is a very popular river for floating, rafting/kayaking (year-round), and fishing.

Fire Protection:

Sandy, xeric, pine-dominated ecosystems dominate the north half of this compartment. There are varied densities of residential and seasonal homes, but the urban interface is present just about everywhere in which this compartment abuts private property. The even-aged jack pine ecosystem poses an increased fire risk to personal property. There is good access to water with Berry Creek along the west boundary of this compartment, the Sturgeon River to the east, and easy access to Burt Lake through Burt Lake State Park, to the north.

Additional Compartment Information:

This compartment receives a huge amount of recreational pressure, mostly in the form of recreational vehicles through all seasons. The proximity to Indian River makes it especially frequented by hunters for deer and birds. Quality habitat management with considerations for travel/recreational influences require special attention.

The following reports from the Inventory are attached:

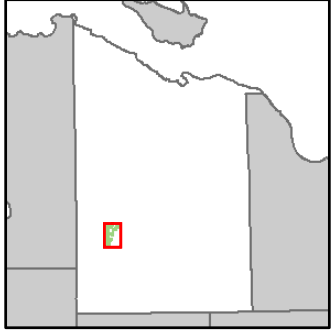
Total Acres by Cover Type and Age Class
Cover Type by Harvest Method
Proposed Treatments – No Limiting Factors
Proposed Treatments – With Limiting Factors
Stand Details (Forested and Nonforested)
Dedicated and Proposed Special Conservation Areas
Site Condition Details

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

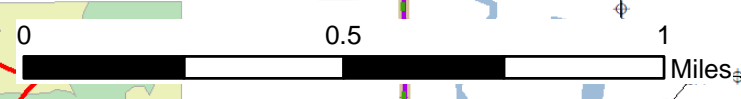
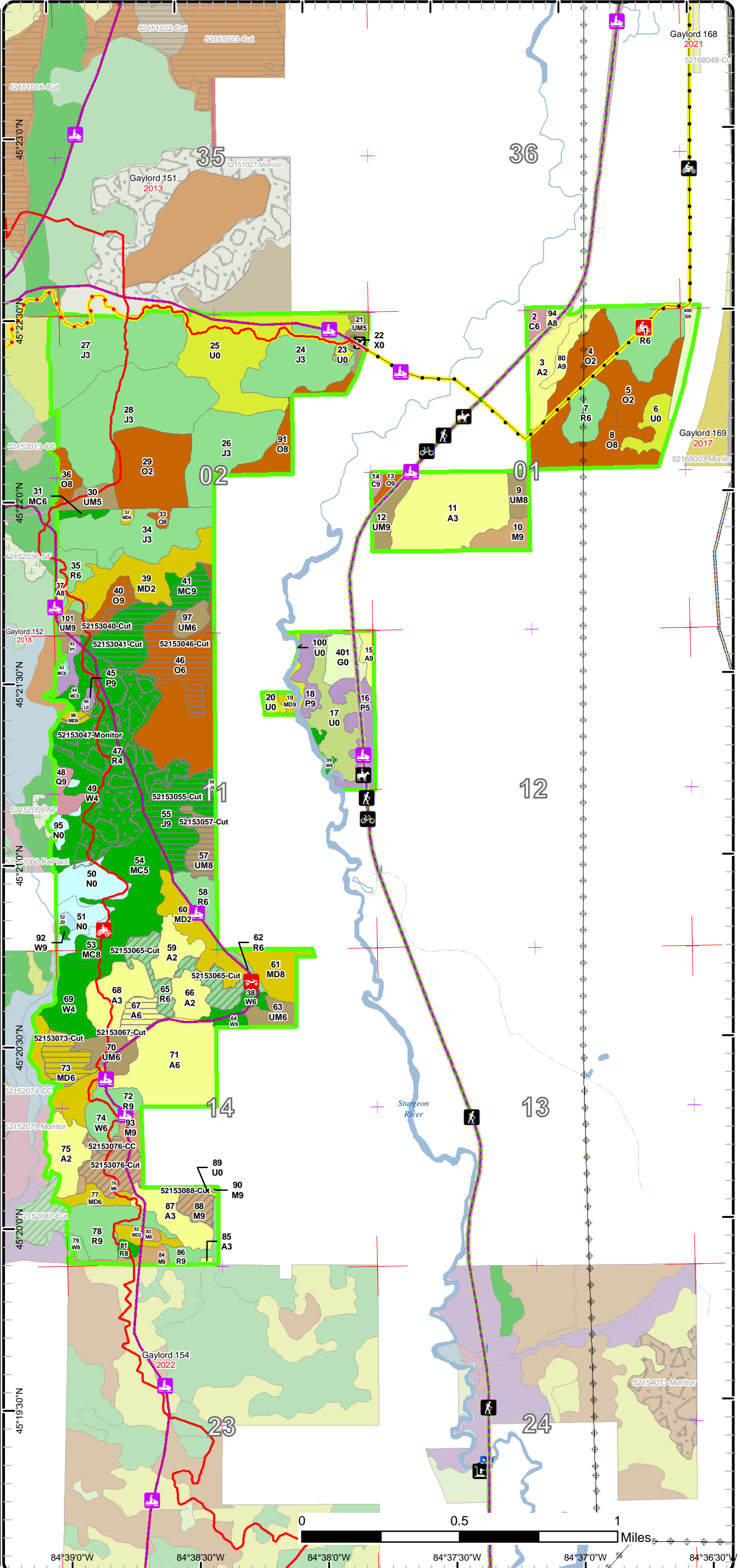
Base feature information, stand boundaries, cover types, and numbers
Proposed treatments
Site condition boundaries
Details on the road access system

Cover Type & Treatments Map

Compartment: 153
 T34N, R03W, Sec. 1-3, 10, 11, 14, 15
 County: Cheboygan
 Unit: Gaylord
 Mgmt Area: Cheboygan Lake Plain
 YOE: 2021
 Acres: 1,422 GIS Calculated
 Examiner: Tricia St. Pierre
 Map Revised: 10/8/2019
 Map Phase: Post-Review



- Miris Corners
- Remonumented Section Corners
- Counties
- Hiking Trails
- Bike Trails
- Horse Trails
- MCCCT Trails
- ORV Trails
- ORV Routes
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- Lakes and Rivers All
- Culvert
- Parking Lot
- Pipeline
- Powerline
- Compartment Boundary
- Pesticide
- Clearcut (w/Reserves)
- Thinning (Crown, Low, Systematic)
- Regeneration Survey
- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- Lakes



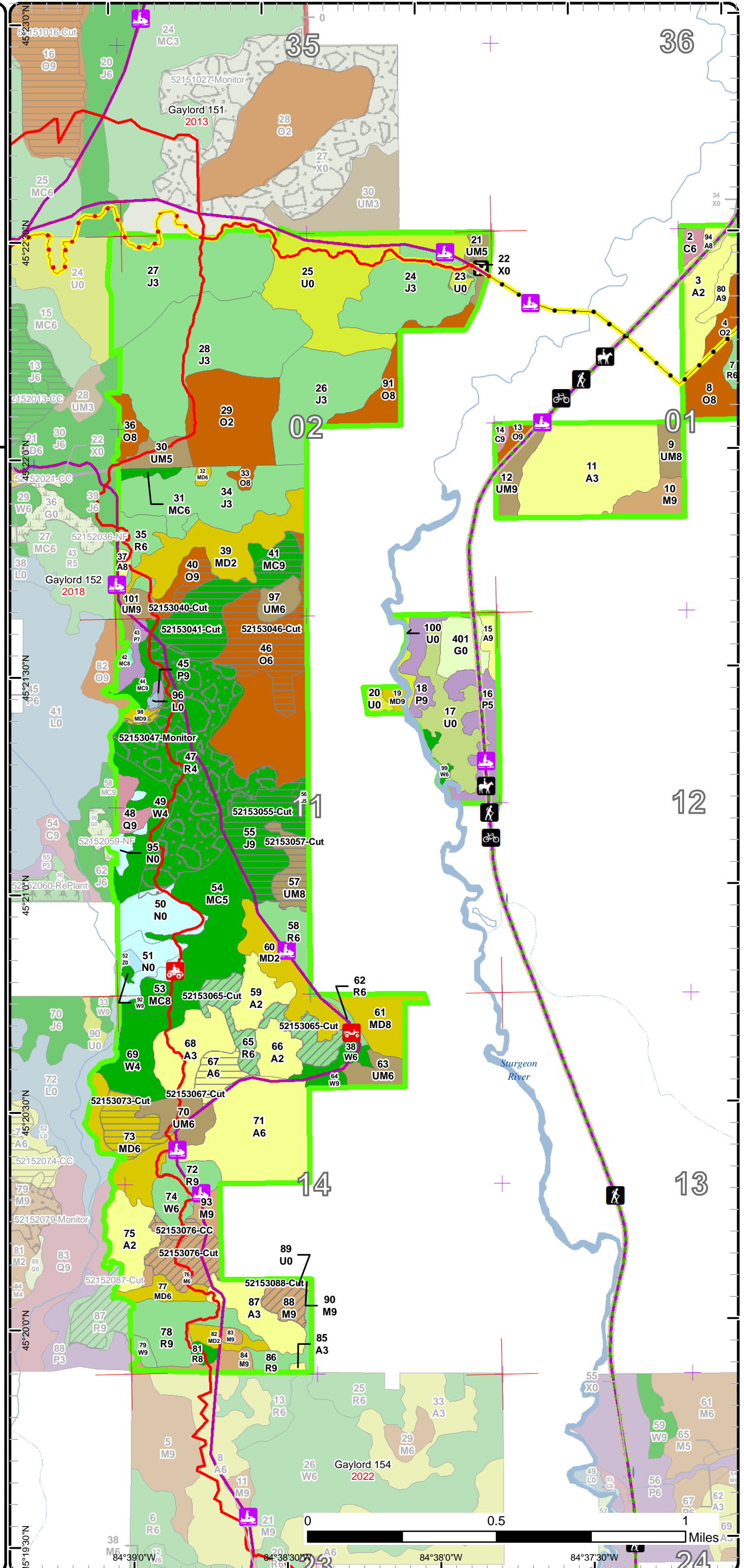
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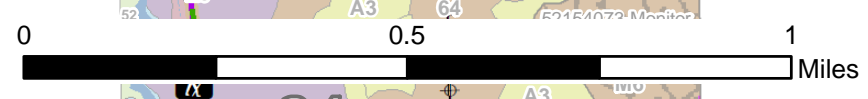
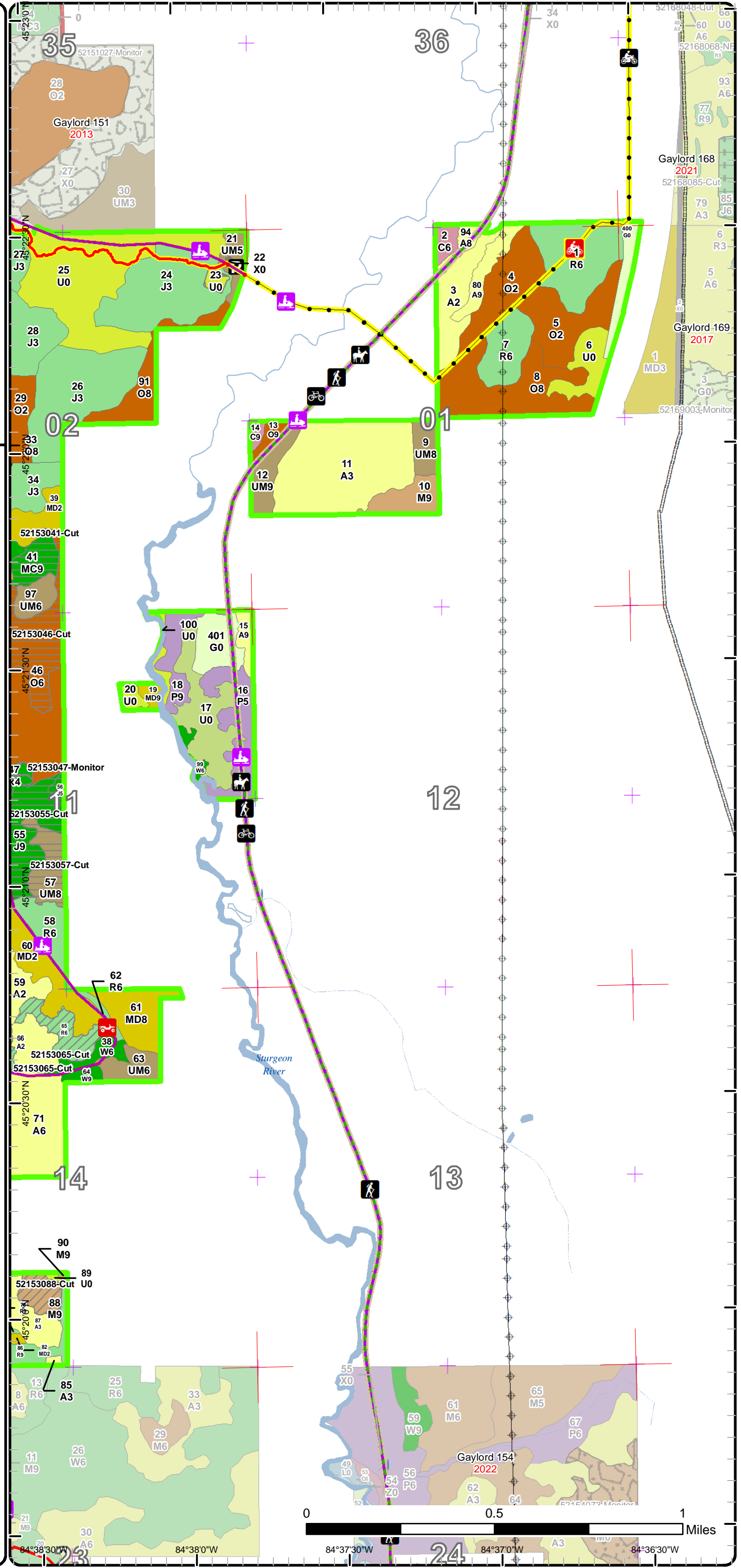


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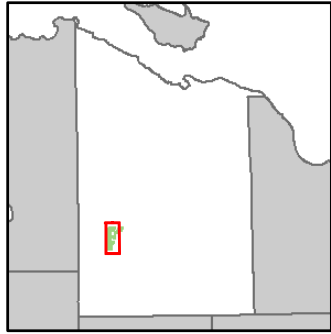
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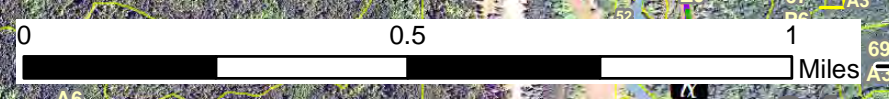
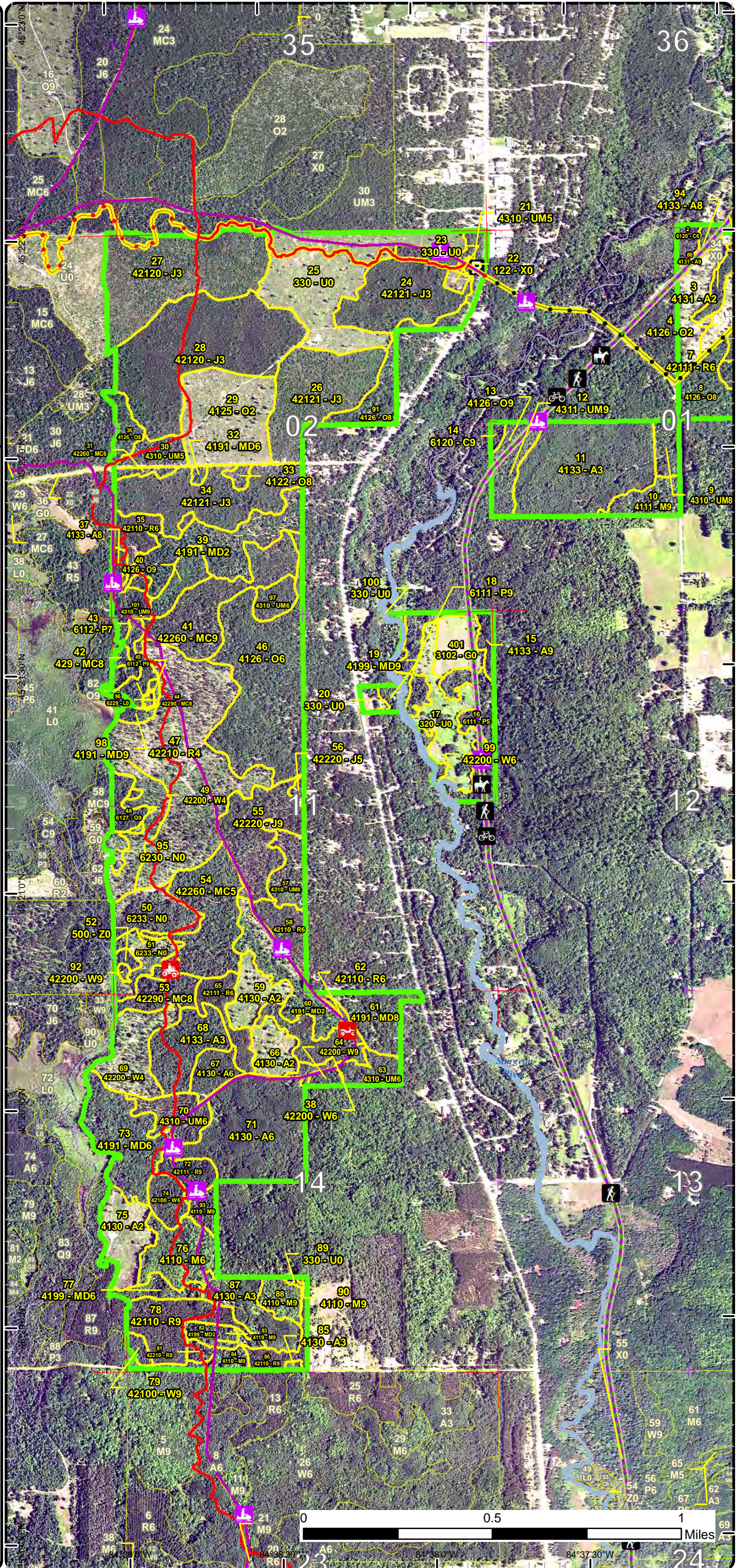
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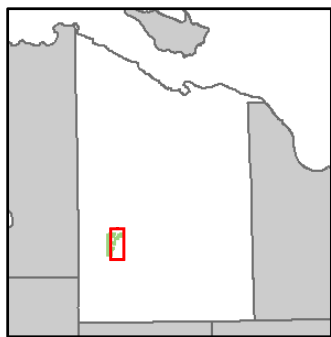
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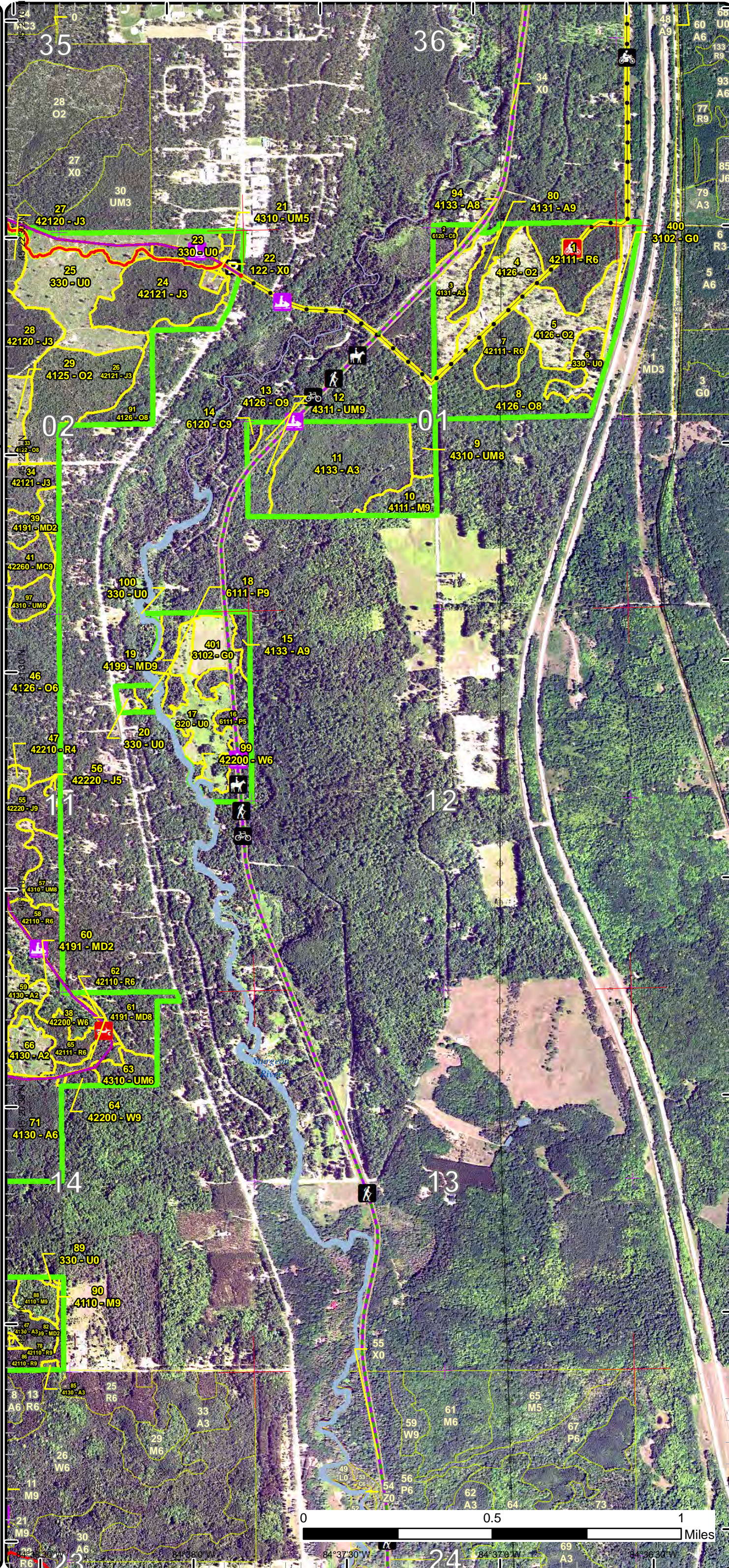
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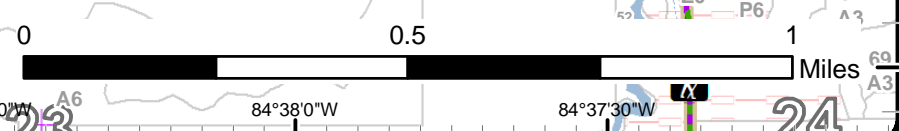
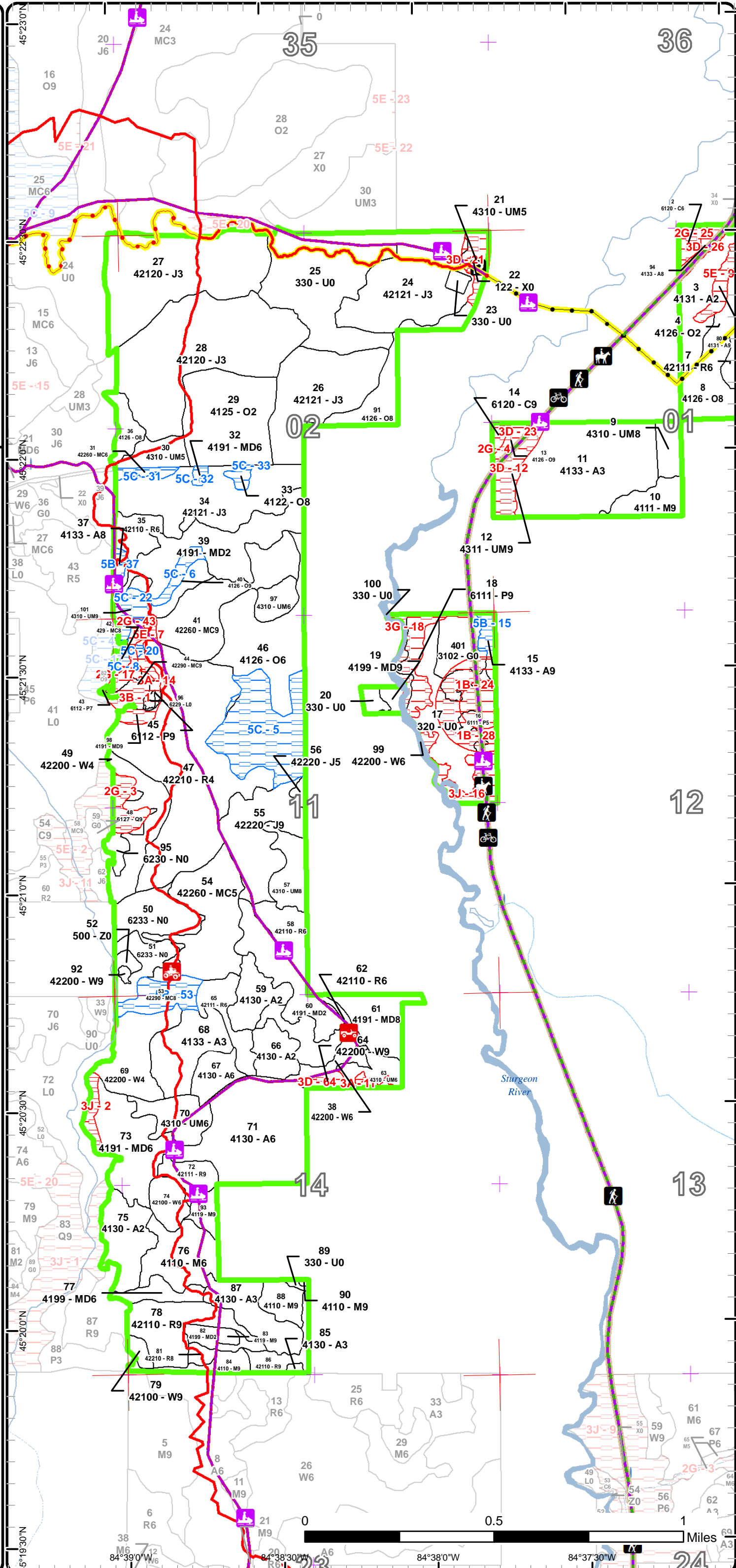


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- Unavailable
- 5B: Maintain for regeneration purposes
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 1B: Non-DNR agency concerns (e.g. USFS)
- 2G: Too wet (sensitive soils, does not include access issues)
- 3A: Conservation Values incompatible with harvest at this time
- 3D: Recreational / Scenic values
- 3G: Other Influence zones - See comments
- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention
- Stand Boundaries
- Cold Water Streams
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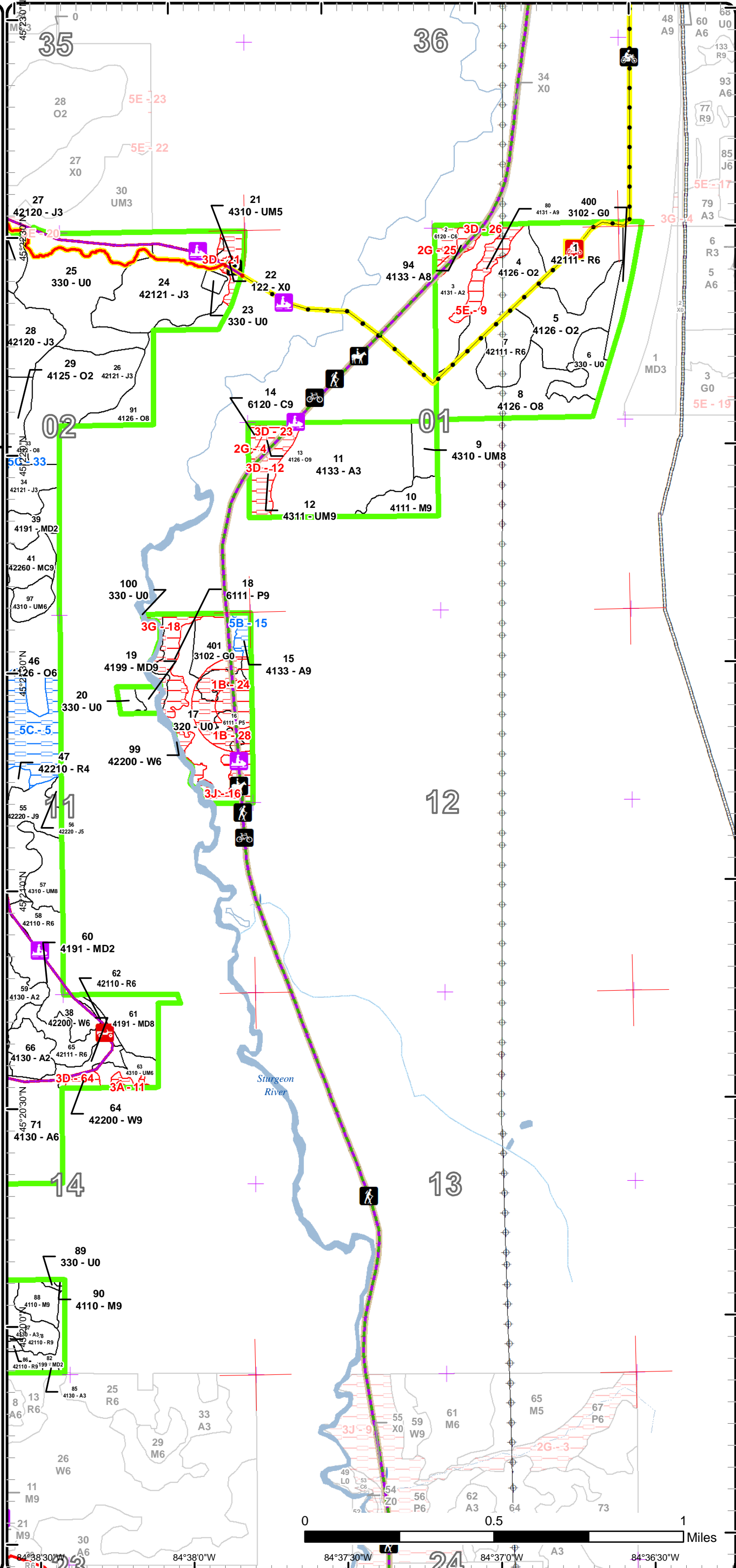


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Age Class

	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	52	16	71	47	4	0	12	0	2	8	0	0	0	0	0	0	0	212
Cedar	0	0	0	0	0	0	0	0	0	0	2	0	3	0	0	0	0	0	5
Herbaceous Openland	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18
Jack Pine	0	0	90	140	0	0	0	0	27	0	0	0	0	0	0	0	0	1	258
Low-Density Trees	72	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	72
Lowland Aspen/Balsam Poplar	0	0	0	0	0	0	0	27	6	0	0	0	0	0	0	0	0	0	33
Lowland Conifers	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0	0	6
Lowland Shrub	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Marsh	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30
Mixed Upland Deciduous	0	0	49	5	6	0	0	0	45	0	0	1	0	0	0	0	0	2	107
Natural Mixed Pines	0	0	0	31	0	0	0	0	2	30	0	0	0	0	10	0	5	0	78
Northern Hardwood	0	0	0	0	0	0	0	0	0	6	36	0	5	0	0	0	0	0	47
Oak	0	78	0	0	0	0	0	6	47	8	66	0	2	0	0	0	0	0	207
Red Pine	0	0	0	0	0	0	117	0	81	0	0	0	0	0	0	0	0	0	198
Upland Conifers	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1
Upland Mixed Forest	0	0	0	0	0	0	20	21	0	17	0	0	5	0	0	0	0	0	63
Upland Shrub	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22
Urban	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Water	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
White Pine	0	0	0	0	0	19	15	0	19	0	0	0	0	0	2	0	0	1	56
Total	146	130	155	247	53	23	152	66	227	63	112	1	15	0	19	0	5	4	1416



Report 2 – Treatment Summary

Gaylord Mgt. Unit

Year of Entry: 2021

Acres of Harvest

Compartment 153

Total Compartment Acres: 1,422

Commercial Harvest - 166
 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	8	0	0	0	0	0	0	0	0	8
Jack Pine	28	0	0	0	0	0	0	0	0	28
Mixed Upland Deciduous	13	0	0	0	0	0	0	0	0	13
Natural Mixed Pines	27	0	0	0	0	0	0	0	0	27
Northern Hardwood	2	0	0	0	0	22	0	0	0	24
Oak	35	0	0	0	0	0	0	0	0	35
Red Pine	0	0	0	0	0	20	0	0	0	20
Upland Mixed Forest	11	0	0	0	0	0	0	0	0	11
Total	124	0	0	0	0	42	0	0	0	166

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	166	0	0	0	0	2	80	0	0	248
Next Step	0	38	38	0	0	79	162	0	0	317
Total	166	38	38	0	0	80	242	0	0	565



Standa	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
23	52153023-Spray	1.8	330 - Low-Density Trees	Nonstocked	0	Unspecified	Pesticide	ERROR	790 - Other Bare/Sparsely Vegetated		Field Boundary

Habitat Cut: No**Site Condition:**

Prescription THIS IS THE SITE OF OUR AUTOMATED FIRE WEATHER STATION. AN FTP (C52-373) HAS BEEN APPROVED TO MAINTAIN THE OPEN CHARACTER OF THIS STAND THROUGH THE USE OF PERIODIC PRESCRIBED BURNS. IT HAS BEEN BURNED TWICE ALREADY BUT THE OAK JUST KEEPS COMING BACK. PLAN IS TO TRY AND CONTROL VEGETATION THROUGH SPRAYING.

Next Step Pesticide, Skidder - Site Prep

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2018

40	52153040-Cut	4.6	4126 - White, Black, N. Pin Oak	Sawtimber Well	80	81-110	Harvest	Clearcut	412 - Oak Types	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Final harvest; sale boundary not to cross dirtbike trail. Require oak wilt spec. Summer harvest to scarify soil.

Specs: Mark to leave no more than 2 trees per acre which are > 18" dbh. No area long term retention due to small stand size. Sign and protect snowmobile and dirtbike trails during harvesting/hauling activities.

Next Step Monitoring, Natural Regen (Re-Inventary)

Treatments:

Acceptable Acceptable regeneration will meet minimum stocking requirements for oak. The inclusion of conifer at any stocking level will be acceptable.

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2020

41	52153041-Cut	27.4	42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	80	81-110	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Final harvest, using dirtbike and snowmobile trails as westernmost boundary. Require oak wilt spec. Summer harvest to scarify soil.

Specs: Mark to leave no more than 2 trees per acre that are > 18" dbh. Sign and protect snowmobile and dirtbike trails during harvesting/hauling activities.

Next Step Monitoring, Natural Regen (Re-Inventary)

Treatments:

Acceptable Acceptable regeneration will meet minimum stocking requirements for mixed deciduous species. The inclusion of conifer at any stocking level will be acceptable. An O- or A- type will be acceptable.

Other

Comment: Long term retention has been identified as a portion of the parent stand in the far west, adjacent to and across the snowmobile trail. Retention may be adjusted and/or moved if more appropriate placement is found during timber preparation.

Proposed Start Date: 10/1 /2020

46	52153046-Cut	30.3	4126 - White, Black, N. Pin Oak	Poletimber Well	90	51-80	Harvest	Clearcut with Retention	4121 - Oak, Aspen	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Final harvest. Require oak wilt spec. Summer harvest to scarify soil. Create variable southern boundary. Long term retention should be placed with careful consideration of visual management along private property; hillside may also be an appropriate place for retention.

Specs: Mark to leave no more than 2 trees per acre which are >18" dbh. Sign and protect snowmobile and dirtbike trails during harvesting/hauling activities.

Next Step Monitoring, Natural Regen (Re-Inventary)

Treatments:

Acceptable Acceptable regeneration will meet minimum stocking requirements for oak. The inclusion of conifer at any stocking level will be acceptable. It will also be acceptable if this stand becomes an A- type.

Other

Comment:

Proposed Start Date: 10/1 /2020



Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
47	52153047-Monitor	80.2	42210 - Natural Red Pine	Poletimber Poor	77	1-50	Monitoring	Natural Regen (Re-Inventory)	42201 - Natural White Pine, Mixed Deciduous	Even-Aged	Draft Field Boundary

Habitat Cut: No**Site Condition:**

Prescription Monitor for successful regeneration during the next inventory cycle.

Specs:

Next Step

Treatments:

Acceptable Regen: Adequate regeneration will meet minimum stocking levels of white pine. Aspen and other deciduous species will be present but should not dominate the stand.

Other Comment: Percent to Treat = 100%

Comment:

Proposed Start Date: 5 /9 /2016

55	52153055-Cut	26.3	42220 - Natural Jack Pine	Sawtimber Well	70	51-80	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Final harvest, using snowmobile trail as westernmost boundary. Place boundary-excluded retention along snowmobile trail, possibly the northwest around higher stocking of oak, and/or an interior retention pocket around any desirable white oak which are >18" dbh.

Specs: Require oak wilt spec. Require 6" stump height to facilitate future planting operations. Sign and protect snowmobile trail during harvesting/hauling operations.

Next Step Pesticide, Skidder - Site Prep; SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Pesticide, Skidder - Release;

Treatments: Monitoring, Artificial Regen(3yr)

Acceptable Regen: Acceptable regeneration will meet requirements for well stocked planted red pine.

Regen:

Other Comment: Retention may also be along the north edge, squaring up the treatment boundary.

Comment:

Proposed Start Date: 10/1 /2020

56	52153056-Cut	1.3	42220 - Natural Jack Pine	Poletimber Medium	43	1-50	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Final harvest. Require oak wilt spec. Require 6" stump height to facilitate future planting operations.

Specs: Sign and protect snowmobile trail during harvesting/hauling operations.

Next Step Pesticide, Skidder - Site Prep; SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Pesticide, Skidder - Release;

Treatments: Monitoring, Artificial Regen(3yr)

Acceptable Regen: Acceptable regeneration will meet requirements for well stocked planted red pine.

Regen:

Other Comment: No retention due to small stand size and reforestation objectives.

Comment:

Proposed Start Date: 10/1 /2020

57	52153057-Cut	10.8	4310 - Pine, Oak Mix	Sawtimber Medium	88	51-80	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Final harvest.. Place boundary-excluded retention along south end of stand, squaring up treatment and/or an interior retention pocket around any desirable white oak which are >18" dbh.

Specs: Require oak wilt spec. Require 6" stump height to facilitate future planting operations. Sign and protect snowmobile trail during harvesting/hauling operations.

Next Step Pesticide, Skidder - Site Prep; SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Pesticide, Skidder - Release;

Treatments: Monitoring, Artificial Regen(3yr)

Acceptable Regen: Acceptable regeneration will meet requirements for well stocked planted red pine.

Regen:

Other Comment:

Comment:

Proposed Start Date: 10/1 /2020



Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
65	52153065-Cut	20.1	42111 - Planted Red Pine, Mixed Deciduous	Poletimber Well	59	141-170	Harvest	Systematic Thinning	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary

Habitat Cut: No**Site Condition:**

Prescription First entry, third row thinning of red pine. In general, this will require the marking of confidence rows and, in some cases, a method of "take-two, leave-three" where rows are tight. Do not cut any species other than pine except where necessary for operations. Scale separately.

Specs: Areas of very high canopy oak and/or aspen stocking may be excluded from the harvest. Require oak wilt spec. Sign and protect snowmobile and dirtbike trail (consider reroute, if still being utilized) during harvesting/hauling operations.

Next Step
Treatments:

Acceptable
Regen:

Other Recommend utilizing the landing from the aspen clearcut, stand 66. This would be a centralized landing location and minimize further impact of establishing a new landing.

Proposed Start Date: 10/1 /2020

67	52153067-Cut	7.9	4130 - Aspen	Poletimber Well	65	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Final harvest. Obvious den trees should be retained. Require oak wilt spec.

Specs: Follow retention guidelines. Sign and protect snowmobile trail during all harvesting and hauling operations.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Acceptable regeneration will meet minimum stocking requirements for aspen. The inclusion of conifer and oak at any level will be acceptable.

Regen:

Other
Comment:

Proposed Start Date: 10/1 /2020

73	52153073-Cut	12.6	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	74	81-110	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Final harvest. Sign and protect snowmobile and dirtbike trails during harvesting and hauling operations. Require oak wilt spec. Observe a 300' SMZ along Berry Creek per Fisheries Division. Retention will be included in acreage excluded from Berry Creek BMPs.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Acceptable regeneration will meet minimum stocking requirements for mixed deciduous species. An A- or O- type will be acceptable, as will conifer at any stocking.

Regen:

Other Treatment is to be kept to the north of Astor Road during this entry.

Comment:

Proposed Start Date: 10/1 /2020



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
76	52153076-CC	2.3	4110 - Sugar Maple Association	Poletimber Well	96	111- 140	Harvest	Clearcut	4119 - Mixed Northern Hardwoods	Even-Aged	Draft Field Boundary

Habitat Cut: No

Site Condition:

Prescription Final harvest a 1-2 chain strip along the north edge of stand 76, tapering the width (less than 1 chain) around trails. Do not cut any oak greater than 18" dbh. Incidental species, such as elm, may be excluded from harvest if found during timber sale preparation.
Specs: Sign and protect snowmobile and dirtbike trails during all harvesting operations.
 Summer harvest only to avoid conflict with snowmobile trail and to allow for soil scarification.
 Require oak wilt spec.

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

Acceptable Regen: Acceptable regeneration will meet minimum stocking requirements for mixed northern hardwood, not to exceed 30% beech. The inclusion of aspen and/or conifer at any stocking level will be acceptable.

Other Comment: This is an effort to regenerate basswood, oak, and paper birch (locally prevalent), accepting white pine volunteers and other hardwood/aspen species.

Proposed Start Date: 10/1 /2020

76	52153076-Cut	15.3	4110 - Sugar Maple Association	Poletimber Well	96	111- 140	Harvest	Crown Thinning	4119 - Mixed Northern Hardwoods	Even-Aged	Draft Field Boundary
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Habitat Cut: No

Site Condition:

Prescription Thin to 80 BA, not creating canopy gaps this entry. Favor underrepresented species and be mindful of desirable regeneration if present, avoiding making trees where regen will get damaged.
Specs: Exclude southwest hill from harvest (small red maple pole dominated).
 Summer harvest only to avoid conflict with snowmobile trail.
 Sign and protect snowmobile/ORV and dirtbike trails during all harvesting operations.
 Require oak wilt spec.

Next Step
Treatments:

Acceptable Regen:

Other Could not locate southeast corner.

Comment: The intent is to put better growth on residual stems. Gaps may be implemented during the next entry to begin a a regeneration regime.

Proposed Start Date: 10/1 /2020

88	52153088-Cut	6.7	4110 - Sugar Maple Association	Sawtimber Well	91	111- 140	Harvest	Crown Thinning	411 - Northern Hardwood	Even-Aged	Draft Field Boundary
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Habitat Cut: No

Site Condition:

Prescription Marked thinning to 80BA or to 2/3 existing BA. Residual BAs may be higher in areas where current BAs are 140+, provided stand is marked for operability. Do not cut oak, elm, or paper birch. No canopy gaps during this entry. Leave tops intact and scattered. Require oak wilt spec.
Specs: Sign and protect snowmobile/ORV trail if utilized for hauling. Snowmobile trail may not be used from December 1 through March 31 for hauling.

Next Step
Treatments:

Acceptable Regen:

Other Cautious of barbed wire in trees along north private line.

Comment:

Proposed Start Date: 10/1 /2020

**Total Treatment
 Acreage Proposed: 247.6**

Report 4 – Site Conditions

Gaylord Mgt. Unit

Compartment: 153

Tricia St. Pierre : Examiner

Year of Entry: 2021

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions										
		With Condition	Not Available		5B	5C	1B	2G	3A	3B	3D	3G	3J	5E	
210	193	5	12	Aspen	5		1				4				7
5	0	0	5	Cedar				5							
18	17	0	2	Herbaceous Openland			2								
258	257	0	1	Jack Pine		0					0				1
72	68	0	4	Low-Density Trees							0	3			0
33	0	0	33	Lowland Aspen/Balsam Poplar		0	11	3		3		9	8		
6	0	0	6	Lowland Conifers				6							0
1	0	0	1	Lowland Shrub						1					
30	30	0	0	Marsh											
108	100	1	6	Mixed Upland Deciduous		1				2				4	
78	60	13	6	Natural Mixed Pines	10	3			1	3					1
47	47	0	0	Northern Hardwood											
206	165	38	3	Oak		38					3				
198	197	0	0	Red Pine		0				0					
1	0	1	0	Upland Conifers		1									
70	49	6	15	Upland Mixed Forest		6			1		14				
22	14	0	8	Upland Shrub			8								
0	0	0	0	Urban							0				
2	2	0	0	Water											
56	51	0	5	White Pine							2			3	
1,422	1,251	64	107	Total Forested Acres	15	49	21	14	2	9	24	12	14	10	
	88%	5%	8%	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	3B: Threatened, endangered, and special concern species	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
This area is designated for special management restrictions. See locked comments. Stand 44 has been nominated for SCA.							

Report 4 – Site Conditions

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Tricia St. Pierre : Examiner

Compartment: 153

Year of Entry: 2021

2	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments: 300' SMZ per Fisheries Division recommendation adjacent to Berry Creek.							
3	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	6	3A: Conservation Values incompatible with harvest at this time	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	33	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Final harvest north half in 2021 YOE. Final harvest south half in 2031 YOE.							
6	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Identified as long term retention from parent stand 41.							

Report 4 – Site Conditions

Gaylord Mgt. Unit

Compartment: 153

Tricia St. Pierre : Examiner

Year of Entry: 2021

8	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: This stand is designated for special management restrictions. See locked comments. Treat with adjacent O0 and follow Woodland Raptor guidelines.							
9	Unavailable	5E: Long-Term Retention	8	3D: Recreational / Scenic values	Unspecified	Unspecified	Unspecified
Comments: Stand was identified for retention and visual management when surrounding stands were harvested in 2016.							
11	Unavailable	3A: Conservation Values incompatible with harvest at this time	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Area encompasses high concentration of XLog pine meeting legacy standards.							
12	Unavailable	3D: Recreational / Scenic values	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
14	Unavailable	3A: Conservation Values incompatible with harvest at this time	1	3B: Threatened, endangered, and special concern species	Unspecified	Unspecified	Unspecified
Comments: This area is designated for special management restrictions. See locked comments.							
15	Available	5B: Maintain for regeneration purposes	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Stand is converting to white pine with oak.							

Report 4 – Site Conditions

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Year of Entry: 2021

16	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
17	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	1	3B: Threatened, endangered, and special concern species	Unspecified	Unspecified	Unspecified
Comments: Designated for special management restrictions. See locked comments.							
18	Unavailable	3G: Other Influence zones - See comments	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
20	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments: This area is designated for special management restrictions. See locked comments.							
21	Unavailable	3D: Recreational / Scenic values	6	3G: Other Influence zones - See comments	Unspecified	Unspecified	Unspecified
Comments:							
22	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

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Tricia St. Pierre : Examiner

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Year of Entry: 2021

23	Unavailable	3D: Recreational / Scenic values	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
24	Unavailable	1B: Non-DNR agency concerns (e.g. USFS)	7	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments: Intrusive activities (timber management, motorized use, etc.) limited during the period of January 1 to June 1.							
25	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
26	Unavailable	3D: Recreational / Scenic values	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
28	Unavailable	1B: Non-DNR agency concerns (e.g. USFS)	15	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Intrusive activities (timber management, motorized use, etc.) limited during the period of January 1 to June 1.							
31	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Designated as visual management when stand to the south was harvested. Long term retention can be designated/decided upon when this stand is harvested next.							

Report 4 – Site Conditions

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Year of Entry: 2021

32	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Designated as visual management when stand to the south was harvested. Long term retention can be designated/decided upon when this stand is harvested next.							
33	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Designated as visual management when stand to the south was harvested. Long term retention can be designated/decided upon when this stand is harvested next.							
37	Available	5B: Maintain for regeneration purposes	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
43	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	2	3K: Rare or unique landforms	Unspecified	Unspecified	Unspecified
Comments: Designated for special management restrictions. See locked comments.							
53	Available	5B: Maintain for regeneration purposes	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Gaylord Mgt. Unit

Compartment: 153

Tricia St. Pierre : Examiner

Year of Entry: 2021

64	Unavailable	3D: Recreational / Scenic values	2	4A: No Markets Available for these Forest Products	Unspecified	Unspecified	Unspecified
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Comments:

Snags forming, large fallen limbs, platey bark on many Xlog trees; some ages could be estimated >140 years. Trees are nearing legacy standards, if not already there.



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
C153 OGT1	Type 1 or Type 2 Old Growth	Possible Type 1 Old Growth Area	Error	4
Comments				
Field Observation - appears to meet Type 1 criteria				



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	42111 - Planted Red Pine, Mixed Deciduous	Poletimber Well	26.1	59	111-140	N/A	Red pine diameters are 6-8". Some areas are decent, but rows are somewhat tight. Jack pine mixed in fairly consistently; occasional white pine (mostly in north). Otherwise, there's a pretty significant inclusion of oak and aspen in the canopy. Crowns are crowded, especially around deciduous trees. Some areas lacking pine are a bit more open. Trace red pine, balsam fir in subcanopy. One black cherry in canopy (10"). Planted in 1960.																																																
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Red Pine</td> <td>65</td> <td>Pole/Log</td> <td>8</td> <td>59</td> </tr> <tr> <td>Jack Pine</td> <td>8</td> <td>Pole/Log</td> <td>8</td> <td></td> </tr> <tr> <td>Bigtooth Aspen</td> <td>10</td> <td>Log/Pole</td> <td>10</td> <td></td> </tr> <tr> <td>Black/Red (Hybrid) Oak</td> <td>8</td> <td>Log/XLog/Pole</td> <td>16</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Red Pine	65	Pole/Log	8	59	Jack Pine	8	Pole/Log	8		Bigtooth Aspen	10	Log/Pole	10		Black/Red (Hybrid) Oak	8	Log/XLog/Pole	16		<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>White Oak</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Black/Red (Hybrid) Oak</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Red Maple</td> <td>Trace</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>White Spruce</td> <td>Trace</td> <td>10 - 20 feet</td> <td>Sapling</td> </tr> <tr> <td>White Pine</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> </tbody> </table>		Canopy Species	Density	Avg. Height	Size	White Oak	Medium	Variable	Sapling	Black/Red (Hybrid) Oak	Medium	Variable	Sapling	Red Maple	Trace	Variable	Sapling	White Spruce	Trace	10 - 20 feet	Sapling	White Pine	Low	Variable	Sapling			
Canopy Species	% Cover	Size Class	DBH	Age																																																			
Red Pine	65	Pole/Log	8	59																																																			
Jack Pine	8	Pole/Log	8																																																				
Bigtooth Aspen	10	Log/Pole	10																																																				
Black/Red (Hybrid) Oak	8	Log/XLog/Pole	16																																																				
Canopy Species	Density	Avg. Height	Size																																																				
White Oak	Medium	Variable	Sapling																																																				
Black/Red (Hybrid) Oak	Medium	Variable	Sapling																																																				
Red Maple	Trace	Variable	Sapling																																																				
White Spruce	Trace	10 - 20 feet	Sapling																																																				
White Pine	Low	Variable	Sapling																																																				
2	6120 - Lowland Cedar	Poletimber Well	3.4	118	111-140	N/A	Stand is very representative of a rich conifer swamp, dominated by cedar with black spruce. Deer browsing has eliminated most understory diversity (herbaceous layer unknown under snow). Trace paper birch and balsam fir in canopy. Stream meanders through stand. Powerline corridor runs along the west boundary of this stand. Dense pole/sap black spruce along powerline edge. Cedar is slowly declining. Trace dead black ash in north. Larger diameter and less canopy closure in the north half of the stand - becomes more log/pole. Increase in larch.																																																
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3	4131 - Aspen, Oak	Sapling Medium	15.2	3	Immature	N/A	Harvest complete in 2016, Club Road Mix 52-129-11-01. West perimeter strays slightly from private line. Small inclusion, residual parent stand. MiFI limitations make it difficult to accurately represent the stand. There's a distinct sapling layer with residual pole/sap/log/XL trees. Scattered log/Xlog oak, red pine. Lots of ages represented in the standing timber: 68 year old 5" white oak; 124 year old 20" x oak. Two tiers in the south dropping in elevation to the north. Similar to stand 4, but more bigtooth regen and white pine residual. Quite a bit of the oak is still below browse height, but the snow depth could be deceiving. North half of stand is 75-100% closure (lots more aspen), south half is 50-75% closure. Inventory features sapling/pole class above browse height. Less than 20 BA of residual logs. Far north abuts a private parcel carved out of state land to resolve a trespass.																																																
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4	4126 - White, Black, N. Pin Oak	Sapling Medium	19.8	3	Immature	N/A	Cannot accurately represent stand with MiFI limitations: stand exists as a distinct sapling stand (2016 origin) with residual sapling/pole/log/xlog "supercanopy". White and hybrid oak log/xlog (aged at 96 in 2019) less than 5% canopy; a good mix of residual pole timber (oak, trace aspen, red maple, mixed pine). Harvest complete in 2016, Club Road Mix 52-129-11-01. <10 BA residual. Browsing pressure evident on oak. Multistemmed residual red maple, oak. Closure could be 75% in snow-off conditions. .																																																
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5	4126 - White, Black, N. Pin Oak	Sapling Medium	21.3	3	Immature	N/A	Just as for stands 3 and 4, cannot accurately represent stand with MiFI limitations: stand exists as a distinct sapling stand (2016 origin) with residual sapling/pole/log/xlog "supercanopy" of XO, JP, WO, BTA, RM. 5" hybrid oak aged at 52, 3" red maple aged at 48, 18" oak aged at 117 (ages current 2019). Residual XLog oak is Log/Xlog. Harvest complete in 2016, Club Road Mix 52-129-11-01. Looks very nice. Planting form for the interplanting of red pine at random spacing over a 75 acre area. Planted in 1960 at 430 tpa.																																																							
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6	330 - Low-Density Trees	Nonstocked	9.9	0	Unspecified	No	Oak present in S/P/L; pine in P/S/L; BTA in P/L/S, RM in S/P/L. This could very easily be called a forested stand. Highly variable vegetation distribution, density, composition. Patchy semi-forested stand. Best guess at ground cover with snow conditions.																																																							
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7	42111 - Planted Red Pine, Mixed Deciduous	Poletimber Well	13.1	59	81-110	N/A	Red pine interplanted in 1960. 1 acre opening in center of stand dominated by oak, white pine. Many more stems per acre of red pine across stand, but white oak occupies a lot of the canopy. Locally higher BAs in tight red pine rows, but variable 80-150. Very few log red pine.																																																							
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8	4126 - White, Black, N. Pin Oak	Sawtimber Medium	32.0	77	51-80	N/A	Aspen removal in 1985 in the southwestern portion of the stand. Variable ages in the dominant oak, 75-100 (current 2019). Stump sprout red maple; multi-stemmed oak, too. Highly variable diameters. Low vigor, high browsing pressure. A lot of pole timber. Quite a few nests in the jack pine in the northeast. Interplanting of red pine in 1960 at 430 tpa. AT&T cable runs E-W along southern boundary of compartment/stand.																																																							
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9	4310 - Pine, Oak Mix	Sawtimber Medium	6.2	62	51-80	N/A	White Road Aspen (52-129-01-01), complete 2003. Few dead white ash. Trace white spruce, balsam fir. Fully stocked sapling subcanopy, but still enough "super" canopy to feature it. Pretty dense white pine, red pine regen in northwest. Far south is definitely an A3, less than 2 acres. More oak in canopy (residual) in north. Red/white pine dominate supercanopy with red maple, oak. Trace pole/log bigtooth asepn in canopy along the edge of White Road. One paper birch, 5", in southwest. More oak regen in north. Ironwood regen picks up in southeast with an increase in white ash, too (especially along road edge). This stand will likely transition to an MD3 in the next inventory cycle with much higher amounts of aspen mixing in with canopy. Trace witch hazel in southwest; trace MLV in southeast. RP regen in northwest only.																																																																																							
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10	4111 - S.Maple, Hard Mast Association	Sawtimber Well	9.4	92	81-110	N/A	Thinning complete in 1992 (52-039-91-01). Dead white ash scattered in the east half. BBD on beech. Some very impressive oak along the north and west portions of stand, mostly on the north-facing aspect of a gentle slope. Impressive hemlock as well. Significant ironwood regen in east, 10-20', variable elsewhere. Couple steep drainages, one has a seep. Medium sugar maple regen in areas, otherwise low. Decent advanced SM in spots.																																																																																							
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11	4133 - Aspen, Mixed Pine	Sapling Well	50.5	27	Immature	N/A	Harvested 1992, Don't Ask Aspen, 52-033-91-01. One hemlock pole in southeast. Couple pockets with 60+/- BA residual pine, but otherwise residual BA is 0-30. Some bonsai oak. 'Hybrid' oak includes some very nice red oak. Some cankers on aspen - aspen appears a bit off site in parts of the stand. Some pockets heavier to mixed oak than aspen. Balsam fir/white spruce pick up in southwest on hillside. Trace scotch pine, jack pine in canopy; striped maple, white ash in subcanopy. OPIC - FMD: OAK, RED PINE AND WHITE PINE WERE LEFT WHEN THIS STAND WAS HARVESTED BUT IN REALITY THERE WAS VERY LITTLE RESIDUAL LEFT. SOME POCKETS OF HEAVY WHITE PINE REGENERATION.																																																																																							
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12	4311 - Pine, Aspen Mix	Sawtimber Well	9.0	65	81-110	N/A	A lot of deer traffic through this stand. Stand transitions from red and white pine dominated in the south to oak and bigtooth in the north. Travel influence along snowmobile trail.																																																																
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13	4126 - White, Black, N. Pin Oak	Sawtimber Well	3.2	90	81-110	N/A	West edge of stand drops down into lowland. There's a little drop from the rail trail into this stand making equipment and hauling operations infeasible for such a small area. Relatively low volume and low timber value, having more importance as part of a larger wildlife tract (along with undeveloped private to the north and west) and visual management along a well travelled trail.																																																																
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14	6120 - Lowland Cedar	Sawtimber Well	1.6	92	141-170	N/A	Heavy browsing, even on balsam fir. Deer yard. Lot of woody debris. NW corner is in. Most paper birch are dead, snags. OPIC - FMD: THICK STAND OF CEDAR GROWING AT THE BASE OF AN OAK RIDGE. NOT REALLY A WET SWAMP STAND BUT IT CERTAINLY IS MOIST.																																																																
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15	4133 - Aspen, Mixed Pine	Sawtimber Well	3.9	69	81-110	N/A	West-facing slope, increasing slope (rather steep) in north. Northeast 1/2-ac flattens out on top of a hill dominated by red and white pine. NE corner is in. Trace white oak in canopy. Trace pole beech. One dead apple tree. OPIC - FMD: STAND LIES ON A FAIRLY STEEP WEST FACING SIDE HILL. THERE ARE NICE QUALITY RED AND WHITE PINE MIXED IN ALONG THE UPPER SLOPES. WITH NO TREATMENT THIS STAND WILL SLOWLY CONVERT TO PINE. THE ADJACENT PRIVATE LAND WAS JUST TREATED SO THERE WOULD BE LITTLE HOPE TO CUT THIS STAND ANYTIME SOON IN CONJUNCTION WITH A PRIVATE HARVEST.																																																																
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16	6111 - Lowland Balsam Poplar	Poletimber Medium	18.2	64	51-80	N/A	<p>Significant amount of coarse woody debris, mostly boxelder and aspen. White willow on stream edge with ninebark, alder. A lot of nettle poking up through the snow. Some mullein, virgin's bower. One pole cedar in northeast. Trace pin oak, paper birch, white oak, blue spruce, balsam fir in canopy.</p> <p>Some maple very characteristic of silver maple, which would not be surprising in a floodplain. Listed as red maple, but buds were out of reach and a spring site visit could verify.</p> <p>Southeast corner is in.</p> <p>OPIC - FMD: THIS STAND IS OFTEN SEASONALLY FLOODED. THE SOUTHWEST PORTION ALONG THE STURGEON RIVER INCLUDES AN OLD OXBOW.</p>																																																																																			
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17	320 - Upland Shrub	Nonstocked	22.1		Unspecified	No	<p>Scattered aspen clones, occasional pine, fairly even black cherry. Few aspen clones. Full snow, so ground cover calls are best guess. Cattails and horsetail were present during the 2009 inventory cycle, but were not observed in 2019. Could be under the snow. This is likely a very damp stand.</p> <p>1999 FTP to burn to regenerate grass; stimulate brush and berries. Unknown if FTP actually happened.</p>																																																																																			
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18	6111 - Lowland Balsam Poplar	Sawtimber Well	9.0	64	51-80	N/A	<p>North third of stand is dominated by northern pin oak; south half is dominated by BAM; transitional area in between with BAM, cherry, and boxelder with dense grape. Trace blue spruce, quaking aspen, jack pine, paper birch, elm, and white oak.</p> <p>1999 FTP to burn to regenerate grass; stimulate brush and berries. Unknown if FTP actually happened.</p>																																																																																			
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19	4199 - Other Mixed Upland Deciduous	Sawtimber Well	2.4	75	81-110	N/A	Small acreage encompassing multiple forest types: stand occupies a steep embankment with a east facing slope down to a floodplain. Floodplain supports cedar, birch, and lowland shrubs; couple seeps at bottom of hill. Hillside supports oak, maple, pine. Top of hill, west edge of stand, is dominated by oak, aspen, and pine.																																																																		
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20	330 - Low-Density Trees	Nonstocked	2.4		Unspecified	No	Gentle east-facing slope with mature oak, scattered pine, cherry, apple. Two distinct man-made depressions - one is undoubtedly a foundation (still somewhat intact), the other is to the north and smaller. Observed fox den, active in 2018.																																																																		
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21	4310 - Pine, Oak Mix	Poletimber Medium	5.2	111	1-50	N/A	Jack pine are snagging out. Stand surrounds the trailhead for the snowmobile/ORV and dritbike trails. Heavy browsing pressure on subcanopy. More balsam fir saplings in south; beech fades out in south. BA is consistently around 50, but ranges 30-80. OPIC - FMD: THIS STAND OF MATURE JACK PINE LIES ADJACENT TO THE ORV PARKING LOT. FOR THAT REASON I WOULD PREFER NOT TO TREAT THIS STAND.																																																																		
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22	122 - Road/Parking Lot	Nonstocked	0.5		Unspecified	No	THIS IS THE TOMAHAWK TRAIL ORV PARKING LOT. Used by snowmobiles, ORVs, dirtbikes. Includes Trailhead Information board (map) and vault toilet.																																																																		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments								
23	330 - Low-Density Trees	Nonstocked	1.8	0	Unspecified	Managed Opening	OPIC - FMD: THIS IS THE SITE OF OUR AUTOMATED FIRE WEATHER STATION. AN FTP HAS BEEN APPROVED TO MAINTAIN THE OPEN CHARACTER OF THIS STAND THROUGH THE USE OF PERIODIC PRESCRIBED BURNS. IT HAS BEEN BURNED TWICE ALREADY BUT THE OAK JUST KEEPS COMING BACK. Mullein in stand.								
								Canopy Species	Density	Avg. Height	Size				
								Black/Red (Hybrid) Oak	High	< 5 feet	Sapling				
								Red Pine	Low	>20 feet	Log				
								Balsam Fir	Trace	>20 feet	Pole				
								White Oak	Low	>20 feet	Log				
								White Oak	Low	< 5 feet	Sapling				
								Black Cherry	Low	< 5 feet	Sapling				
								Jack Pine	Trace	< 5 feet	Sapling				
24	42121 - Planted Jack Pine, Mixed Deciduous	Sapling Well	33.7	25	Immature	N/A	A handful of pole jack pine. Couple scattered pockets of mature timber left scattered, typically mature pine with oak, though the south-central portion of this stand has a 1-2 acre swath of mature white oak residual with trace balsam fir in the subcanopy. OPIC - FMD: WIDELY SCATTERED RED PINE, WHITE PINE AND OAK RESIDUAL WERE LEFT. MOST OF THIS RESIDUAL TENDS TO BE CLOSE TO THE NORTHERN BOUNDARY OF THE STAND NEAR THE ROAD. A SMALL RESIDUAL ISLAND WAS ALSO LEFT NEAR THE SOUTHERN PORTION OF THE SALE AREA. 1994 FTP C510418 to plant jack pine. Originally harvested in 1992 as Trailhead Jack Pine, 52-035-91-01: cut all trees except red pine, white pine, and trees marked with orange.								
								Canopy Species	% Cover	Size Class	DBH	Age			
								Jack Pine	75	Sapling	3	25			
								Black/Red (Hybrid) Oak	10	Sapling/Pole	2				
								Canopy Species	Density	Avg. Height	Size				
								Black/Red (Hybrid) Oak	Medium	Variable	Sapling				
								White Pine	Low	Variable	Sapling				
								Red Pine	Trace	Variable	Sapling				
								White Oak	Trace	Variable	Sapling				
Balsam Fir	Trace	10 - 20 feet	Sapling												
25	330 - Low-Density Trees	Nonstocked	53.5	0	Unspecified	412 - Oak Types	Stand was clearcut in winter 2014/2015. 1-3 tpa left for mast and representative trees. Witchesbroom Pine/Oak 52-114-11-01. Stand is regenerating well.								
								Canopy Species	Density	Avg. Height	Size				
								Black/Red (Hybrid) Oak	Trace	>20 feet	Log				
								Jack Pine	Trace	>20 feet	Pole				
								White Pine	Trace	>20 feet	Pole				
								Black/Red (Hybrid) Oak	High	< 5 feet	Sapling				
								Jack Pine	Medium	< 5 feet	Sapling				
								White Pine	Trace	< 5 feet	Sapling				
								Red Pine	Trace	< 5 feet	Sapling				
								Black Cherry	Low	< 5 feet	Sapling				
								White Oak	Trace	< 5 feet	Sapling				
								26	42121 - Planted Jack Pine, Mixed Deciduous	Sapling Well	35.8	15	Immature	N/A	A couple of aspen clones, a few scattered aspen. I expect oak will occupy more of the canopy in the next entry. Very dense jack pine in the south. Planted 9/2004. FTP #C52-246.
Jack Pine	79	Sapling	2	15											
Northern Pin Oak	15	Sapling/Pole	2												
Canopy Species	Density	Avg. Height	Size												
Northern Pin Oak	High	Variable	Sapling												
White Oak	Low	Variable	Sapling												
Black Cherry	Low	5 - 10 feet	Tall Shrub												



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																		
27	42120 - Planted Jack Pine	Sapling Well	54.2	14	Immature	N/A	OPIC - FMD: THE SALE AREA FOR THIS CUTTING UNIT ACTUALLY EXTENDS BOTH NORTH AND SOUTH OF THE COMPARTMENT BOUNDARIES. THE SECTION CORNER IS WELL WITHIN THE CUT AREA. Planted 9/2004. FTP #C52-246. West half of stand is a bit more open. The far west lacks the consistent canopy oak found throughout the rest of the stand. Variable 2000 stems per acre, averaging around 1200 for jack pine, 750 for oak (multi-stemmed, sapling).																																																																		
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28	42120 - Planted Jack Pine	Sapling Well	68.3	25	Immature	N/A	Planted in 1994. Jack pine should be represented as S/P/L to capture scattered mature jack pine from the parent stand. One island of mature L/P jack pine situated in the center of the stand. Small open pocket of cherry (shrub form) just to the east. Another pocket of L/P jack pine and oak on the east edge. Significant amount of residual white oak in the far west. Trace "supercanopy" red and white pine, <1%. OPIC - FMD: RESIDUAL WHITE OAK AND RED PINE WERE LEFT WHEN THIS STAND WAS CUT. MOST OF THE RESIDUAL TREES ARE SITUATED ALONG THE EDGE OF STAND #30. THERE IS ALSO A SMALL RESIDUAL ISLAND THAT WAS LEFT WITHIN THE CENTRAL PORTION OF THIS SALE AREA.																																																																		
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29	4125 - Black, N. Pin Oak	Sapling Medium	36.4	4	Immature	N/A	Stand was cut in winter 2014/2015, Witchesbroom Pine/Oak, 52-114-11-01. Approximately 3 tpa (varied oak, pine) left on the landscape as indicated in prescription. Trace residual red pine and jack pine scattered as well. Jack pine was removed in a previous harvest, and, as compared to the clearcut to the north, it is obvious in the jack pine regeneration density that this was the case. There is far better jack pine regeneration in the north stand, while it is present but in much lower stocking here. Stand is developing into a lower quality, multi-stemmed oak stand with mixed pine. There are trace bigtooth and red maple present. Less stocking in the northeast.																																																																		
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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30	4310 - Pine, Oak Mix	Poletimber Medium	7.6	57	51-80	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age
Jack Pine	42	Pole/Log	8	57
White Pine	10	Pole/Log	8	
Black/Red (Hybrid) Oak	15	Pole/Log	8	
White Oak	10	Log/Pole	12	
Bigtooth Aspen	20	Log/Pole	12	

Canopy Species	Density	Avg. Height	Size
Black/Red (Hybrid) Oak	High	Variable	Sapling
Red Pine	Low	Variable	Sapling
White Oak	Medium	Variable	Sapling
Black Cherry	High	5 - 10 feet	Tall Shrub
White Pine	Low	Variable	Sapling
Balsam Fir	Low	Variable	Sapling
Hawthorn (spp.)	Trace	5 - 10 feet	Tall Shrub
Red Maple	Low	Variable	Sapling
Jack Pine	Trace	Variable	Sapling
Juniper	Trace	< 5 feet	Tall Shrub

East 1/4 of stand is somewhat unique for this area. There's a significant bowl in the east 1/4 with XL red pine, variable white and jack pine, quaking and bigtooth aspen, and red maple with trace hawthorn in the subcanopy (just observed one shrub). This could potentially hold a little bit of water during wet years (though doubtful with the sandy soil). Stand, however small, still varies from east to west. Aspen is off site; white oak and pine are better suited. Very poor form hybrid oak. Bad black knot on subcanopy cherry. Dirtbike trail runs through this stand. Far west and about 1-chain deep along road is occupied by jack pine much smaller diameter pole timber than throughout the rest of the stand. Northwest is dominated by small pole oak, white pine. 1.5 acre area (encompassing west/northwest) is the result of a wildfire in 1961.

31	42260 - Natural Pine, Mixed Deciduous	Poletimber Well	2.3	78	51-80	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age
Jack Pine	45	Pole/Sap/Log	8	78
Bigtooth Aspen	25	Log/Pole	12	
White Pine	15	Pole/Log/Sap	6	
Black/Red (Hybrid) Oak	10	Log/Pole	10	

Canopy Species	Density	Avg. Height	Size
White Pine	Low	Variable	Sapling
Red Pine	Trace	Variable	Sapling
Black/Red (Hybrid) Oak	Medium	Variable	Sapling
Jack Pine	Low	Variable	Sapling
Choke Cherry	High	Variable	Sapling
Balsam Fir	Trace	10 - 20 feet	Sapling
White Oak	Low	Variable	Sapling
Serviceberry (Juneberry)	Low	Variable	Tall Shrub
Bigtooth Aspen	Trace	Variable	Sapling
Red Maple	Low	Variable	Sapling
White Spruce	Trace	10 - 20 feet	Sapling
Bearberry	High	< 5 feet	Tall Shrub
Juniper	Trace	< 5 feet	Tall Shrub

Trace balsam fir in canopy. More conifer subcanopy in west. More red maple in west, too. THIS STAND WAS INTENTIONALLY LEFT FOR VISUAL MANAGEMENT REASONS WHEN STAND #34 (J3 to the south) WAS CUT.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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32 4191 - Mixed Upland Deciduous with Conifer Poletimber Well 1.1 108 51-80 N/A

Trace white pine and red maple in canopy. OPIC - FMD: THIS STAND WAS INTENTIONALLY LEFT FOR VISUAL MANAGEMENT REASONS WHEN STAND #34 WAS CUT.

Canopy Species	% Cover	Size Class	DBH	Age
Jack Pine	30	Pole/Log	8	
Bigtooth Aspen	35	Log/Pole	10	108
Black/Red (Hybrid) Oak	19	Pole/Log	8	
White Oak	15	Log/Pole	12	

Canopy Species	Density	Avg. Height	Size
White Oak	Medium	Variable	Sapling
Jack Pine	Trace	Variable	Sapling
Black/Red (Hybrid) Oak	High	Variable	Sapling
White Pine	Low	Variable	Sapling
Red Maple	Medium	Variable	Sapling
Balsam Fir	Trace	Variable	Sapling
Black Cherry	Medium	5 - 10 feet	Sapling
Red Pine	Trace	< 5 feet	Sapling
White Pine	Trace	>20 feet	Pole
Choke Cherry	Medium	Variable	Sapling
Bearberry	Medium	< 5 feet	Tall Shrub
Juniper	Trace	< 5 feet	Tall Shrub

33 4122 - Oak, Pine Sawtimber Medium 1.9 113 51-80 N/A

OPIC - FMD: THIS STAND WAS INTENTIONALLY LEFT FOR VISUAL MANAGEMENT REASONS WHEN STAND #34 WAS CUT.

Canopy Species	% Cover	Size Class	DBH	Age
Black/Red (Hybrid) Oak	46	Log/Pole	10	113
Jack Pine	30	Pole/Log	8	
White Oak	15	Pole/Log/XLog	8	

Canopy Species	Density	Avg. Height	Size
Red Pine	Trace	5 - 10 feet	Sapling
Jack Pine	Medium	Variable	Sapling
Red Maple	Low	Variable	Sapling
Black/Red (Hybrid) Oak	High	Variable	Sapling
White Oak	Low	Variable	Sapling
White Pine	Low	Variable	Sapling
Choke Cherry	Low	Variable	Sapling
Balsam Fir	Trace	Variable	Sapling

34 42121 - Planted Jack Pine, Mixed Deciduous Sapling Well 37.8 25 Immature N/A

OPIC - FMD: NO RED PINE, WHITE PINE OR WHITE OAK WERE TO BE CUT WHEN THIS SALE WAS HARVESTED. VERY LITTLE RESIDUAL THOUGH WAS ACTUALLY LEFT. A NARROW BUFFER STRIP WAS LEFT ALONG THE PRIVATE LAND ALONG THE EAST BOUNDARY OF THE SALE. Clearcut in 1991. FTP to hand plant JP in 1993. Recommendation to chagne MO to red pine. No evidence that this went through. FTP completion report C51-0423 shows planted JP in 1994. 993 tpa. Harvested in 1993, Southside Jack Pine, 52-041-91-01.

Canopy Species	% Cover	Size Class	DBH	Age
Jack Pine	62	Sapling	3	25
Black/Red (Hybrid) Oak	10	Sapling/Pole	2	
Bigtooth Aspen	15	Sapling	2	

Canopy Species	Density	Avg. Height	Size
Black/Red (Hybrid) Oak	Medium	Variable	Sapling
White Oak	Low	Variable	Sapling
Black Cherry	Low	Variable	Sapling
Balsam Fir	Trace	< 5 feet	Sapling
White Pine	Trace	< 5 feet	Sapling
Red Pine	Trace	< 5 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																				
35	42110 - Planted Red Pine	Poletimber Well	10.6	59	81-110	N/A	Trace white pine and balsam fir in canopy; one beech in subcanopy. Trace Xlog red pine in northeast (natural). Few open pockets in eash half of stand - old landing for adjacent stand in south. Trace white pine in canopy in south leg. Main body of stand is red pine with jack pine and oak, a couple scattered aspen. South leg is 50/50 red pine and oak, aspen (trace white pine). Isolated RP stands to south and east were added Planted in 1960, Form 169.																																																				
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36	4126 - White, Black, N. Pin Oak	Sawtimber Medium	6.2	63	51-80	N/A	Western third of stand occupies a small crescent shaped ridge with mature jack pine and oak. BA spikes on occasion, but is otherwise 60-70.																																																				
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37	4133 - Aspen, Mixed Pine	Sawtimber Medium	1.7	88	81-110	N/A	There are some plantation rows that make it into this stand in the east. Aspen is deteriorating, poor form, off site. Oak and pine are a good future for this stand.																																																				
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38	42200 - Natural White Pine	Poletimber Well	5.5	59	81-110	N/A	Dominated by white pine with an increasing amount of jack pine in the east. Few quaking aspen in the west, otherwise scattered bigtooth throughout. Trace red pine, red maple in canopy. Areas of lower BA have larger diameters.																																																				
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39	4191 - Mixed Upland Deciduous with Conifer	Sapling Medium	29.5	17	Immature	N/A	Harvested in 2002 as Wildwood Aspen, 52-123-01-01. Cut all trees 2" dbh and greater except no red or white pine, white oak, or oak less than 2" dbh. Compared to the last inventory notes, this stand seems to have filled in, especially with aspen. Very nice regeneration. Pine/oak residual overstory is much higher in the west half of this stand. Multiple tree/ladder stands present in this stand.																																																									
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40	4126 - White, Black, N. Pin Oak	Sawtimber Well	8.1	80	81-110	N/A	West edge of stand occupies a small spine: a little hill of slow growing but generally good looking white oak with scattered red and jack pine. Southern 1-2 acres are a nice mix of aspen, pine, and oak. Jack pine is a little more prevalent along the east edge and a bit in the north. Trace Xlog red pine on ridgeline. Two porcupine den trees, occupied, observed in winter 2019. X oak and aspen aren't as nice of quality as white oak and jack pine.																																																									
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41	42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	30.4	80	81-110	N/A	Scattered natural red pine with some Xlog. Scattered red maple in canopy. Oak is fairly consistent throughout stand at 20-40 BA. Jack pine dominates, except in regions where red pine and aspen and/or oak are prevalent. More red pine along the southeastern edge. Narrow center portion of stand has much more oak, aspen, red pine. Far northwest tip of east half is an inclusion, almost entirely oak. East half of stand in general is still pole sized. Red pine interplanted in far west; planted in 1960, Form 169.																																																									
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42	429 - Mixed Upland Conifers	Sawtimber Medium	1.2	133	81-110	N/A	East half is very dense balsam fir understory pole/sap with quaking aspen, red maple. Transitions westward to include white spruce, white pine, trace oak, then red pine. Lots of pole red maple, balsam fir - dense subcanopy, but somewhat open canopy still. Former comments are very applicable: THIS IS A SMALL ISOLATED STAND OF BIG PINE MIXED WITH MISCELLANEOUS PULPWOOD SPECIES. THIS IS GROWING ON SLIGHTLY WETTER GROUND NEXT TO A WET DEPRESSIONAL AREA. IT IS A WELCOME DIVERSION TO THE DRY XERIC TYPES FOUND ALL THROUGHOUT THIS COMPARTMENT.																																																									
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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43 6112 - Lowland Aspen Sawtimber Poor 4.7 79 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	75	Log/Pole	10	79
Balsam Poplar	20	Pole/Log	8	

Canopy Species	Density	Avg. Height	Size
Gray Dogwood	High	5 - 10 feet	Tall Shrub
Serviceberry (Juneberry)	Trace	5 - 10 feet	Tall Shrub
Black Cherry	Trace	Variable	Tall Shrub
Hawthorn (spp.)	Trace	5 - 10 feet	Tall Shrub
Quaking Aspen	Low	Variable	Sapling
Grape Vine	Trace	Unspecified	Vine
White Pine	Low	Variable	Sapling
American Elm	Trace	>20 feet	Sapling
White Oak	Trace	Variable	Sapling
Balsam Poplar	Medium	Variable	Sapling
Black/Red (Hybrid) Oak	Trace	Variable	Sapling
Alder	High	10 - 20 feet	Tall Shrub
Jack Pine	Trace	Variable	Sapling
Red Osier Dogwood	Trace	< 5 feet	Tall Shrub
Balsam Fir	Medium	Variable	Sapling
Paper Birch	Trace	>20 feet	Sapling
White Spruce	Low	Variable	Sapling
Black Ash	Trace	>20 feet	Sapling
Red Maple	Trace	Variable	Sapling
Cattail spp.	Trace	Unspecified	Non-Wood

Snags and a lot of to-be snags. Transitioning towards a lowland mixed deciduous/coniferous stand, self-perpetuating with low stocking. Dense shrubs throughout - nearly exclusively gray dogwood in the north half, transitioning to a mix of dogwood and alder, eventually all alder with mixed saplings and some red osier dogwood in the south. South is very wet with flowing water. Trace red pine on the perimeter; much denser balsam fir in south. Couple occurrences of hawthorn in the north. A SMALL WET STAND GROWING IN A SLIGHT ELONGATED DEPRESSIONAL AREA. THE EDGES HAVE SOME FIR AND MAPLE MIXED IN. THERE IS AN OLD UNOCCUPIED STICK NEST IN THIS STAND. THIS IS A UNIQUE STAND FOR THIS COMPARTMENT.

44 42290 - Natural Mixed Pine Sawtimber Well 4.7 150 111-140 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Pine	55	XLog/Log	22	150
White Pine	20	XLog/Log	22	
Black/Red (Hybrid) Oak	8	Log/Pole/XLog	12	
Red Maple	10	Pole/Log	8	

Canopy Species	Density	Avg. Height	Size
White Oak	Low	Variable	Sapling
Beech	Trace	< 5 feet	Sapling
Black/Red (Hybrid) Oak	Trace	Variable	Sapling
Quaking Aspen	Trace	< 5 feet	Sapling
White Spruce	Low	Variable	Sapling
Balsam Fir	Medium	Variable	Sapling
Red Pine	Trace	Variable	Sapling
White Pine	Medium	Variable	Sapling
Black Cherry	Low	5 - 10 feet	Tall Shrub
Red Maple	Medium	Variable	Sapling
Northern White Cedar	Trace	>20 feet	Log
Nannyberry	Trace	< 5 feet	Tall Shrub

White pine average diameters are around 26", Xlog/log. Trace northern white cedar on perimeters. Trace jack pine on north tip, trace white spruce in north. Balsam fir are vying for canopy position, but don't make it. Heavy browse on subcanopy. Burn scars. THIS IS A SMALL ISOLATED STAND OF BIG PINE MIXED WITH MISCELLANEOUS PULPWOOD SPECIES GROWING ON SLIGHTLY WETTER GROUND SITUATED BETWEEN TWO WET DEPRESSIONAL AREAS. IT IS VERY SIMILAR TO STAND #42 JUST TO THE NORTH.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																			
45	6112 - Lowland Aspen	Sawtimber Well	1.0	79	81-110	N/A	All quaking aspen in the north, becoming QA with red maple and oak. Trace red pine on the edges. All pole red maple along the south edge of the LO.																																																																			
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46	4126 - White, Black, N. Pin Oak	Poletimber Well	62.6	90	51-80	N/A	Very scrubby hybrid oak. Aspen is very off site; low quality, very poor vigor. This ground is suited for pine, but putting jack pine in the ground would have its challenges. BAs vary, 50-130, average around 80 (mode 60). Two significant parallel hills (running nw to se). Consider focusing retention along the hillsides. Area of fairly dense white pine (in canopy and subcanopy) in the north-center, about 2 acres. This could also be a retention pocket.																																																																			
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47	42210 - Natural Red Pine	Poletimber Poor	81.1	77	1-50	N/A	Stand was harvested in 2015 as Woodcock Mix, 52-121-11-01. **MO needs to be reconsidered. There is enough red and white pine residual to be featured as the main canopy, however, aspen, oak, and red maple are coming back with rather high stocking.** A lot of oak regen (resulting from harvest) is browsed. Oak above browse height is mostly residual recruits from the original stand. West edges, especially hillside, seem to be slower to regenerate. More white pine residual in the south. Expected white pine regen could be under the snow. I would consider this a fully stocked MD3 stand, except for the R/W4 overstory being featured. Very successful regen of aspen, oak, maple, and some pine.																																																																			
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48	6127 - Lowland Pine	Sawtimber Well	5.8	133	111-140	N/A	<p>Stand is almost completely flooded as a result of recent beaver activity. There has been an increase in mortality in response to the flooding, noticeable especially in balsam fir and white pine. Legacy red pine on north edge. Lower BAs in the north (40-120), higher in the south (120-140). Trace paper birch (just one). Trace white spruce (seedling). Appears to have had a species removal around perimeter of the stand, or perhaps a separate flooding event and subsequent recession about 55 years ago. Scattered dead jack pine, white spruce. Impressive legacy white pine in west. South portion of stand is dominated by red pine. Trace beech in sapling layer; trace paper birch (just one) in canopy.</p>																																																														
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49	42200 - Natural White Pine	Poletimber Poor	16.1	49	1-50	N/A	<p>Scattered red and white pine were left in an attempt to regenerate this stand to natural white pine, mixed deciduous in Woodcock Mix, 52-121-11-01. Completed 2015. Residual overstory is the featured class, as the regeneration is still in a seedling/sapling phase and not the dominant canopy. Beaver flooding has affected portions of this stand on the south and west edges; these portions have been separated and reclassified as non-forested stands (due to mortality following flooding). Heavy browsing on deciduous regeneration. Trace balsam fir, white spruce saps on west lowland edge. Bracken in west. A bit higher aspen regen in the north and more successful red maple (at or above browse height) in the far north.</p>																																																														
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50	6233 - Wet Meadow	Nonstocked	17.2	0	Unspecified	No	<p>This stand has been expanded to include portions from parent stands 53 and 54 as a beaver flooding has resulted in complete mortality. What's left is dead standing fairly dense sap/pole/log (variable) conifer and mixed deciduous. There are very few remaining extremely stressed balsam fir, hybrid and white oak (saplings - because of deep tap root?), red maple. Unless they're perched above the water or the dam is removed, these few trees likely won't survive. The water level cannot be determined with current snow depths (January 2019). Soil are neither sapric nor peat (therefore lacking classification as a Northern Wet Meadow), but this stand has been regularly influenced by flooding. 1979 Salvage of red and white pine.</p>																																																														
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments									
51	6233 - Wet Meadow	Nonstocked	8.8	0	Unspecified	No	This stand has a history of flooding, as influenced by beaver activity. Flooding since 2017 has resulted in high mortality across the majority of the stand. The very southern portion of this stand is saturated (though not completely flooded) and this is the only place with living, albeit very stressed, vegetation (sapling/pole white/red/jack pine, balsam fir, paper birch, oak, cherry, alder, holly). 2009 comments are still important: OPIC - FMD: THIS STAND WAS ONCE FLOODED DUE TO BEAVER ACTIVITY ON THE ADJACENT CREEK. A SALVAGE OPERATION REMOVED MUCH OF THE PINE. NOW THIS STAND IS DRY AND WHITE PINE IS SLOWLY SEEDING BACK IN. THERE IS STILL A HIGH WATER TABLE, THOUGH AS LOTS OF LOWLAND BRUSH IS PRESENT. Salvage in 1979 of red and white pine.									
								Canopy Species	Density	Avg. Height	Size					
								Balsam Fir	Trace	Variable	Sapling					
								White Pine	Trace	Variable	Sapling					
								Red Pine	Trace	Variable	Sapling					
								Jack Pine	Trace	Variable	Sapling					
								Paper Birch	Trace	Variable	Sapling					
								Alder	Trace	5 - 10 feet	Tall Shrub					
								Black/Red (Hybrid) Oak	Trace	Variable	Sapling					
								Pin Cherry	Trace	Variable	Sapling					
Balsam Poplar	Trace	Variable	Sapling													
52	500 - Water	Nonstocked	1.8	0	Unspecified	No	Currently flooded with full mortality. Previous inventory captures dynamics: OPIC - FMD: THIS IS NOT GREAT QUALITY OWING TO THE FACT THAT IT HAS BEEN REPEATEDLY FLOODED DUE TO BEAVER ACTIVITY. RIGHT NOW IT IS PRETTY DRY.									
53	42290 - Natural Mixed Pine	Sawtimber Medium	10.0	133	81-110	N/A	There are some beautiful legacy red and white pine. Jack pine in the southwest, some mortality. L/XLog supercanopy 50-75% with full pole/log/sap understory. Far west leg is L/X natural white pine with scattered jack pine. Serious mortality in northwest from beaver flooding. Snow conditions make it difficult to definitively identify water line. Trace white oak in canopy. Northeast portion of stand was harvested as part of sale to north: 1994 Old Growth Red, 52-043-91-01: shortwood operation, harvest all jack pine, aspen, red oak, and mixed hardwood 2" dbh and greater.									
								Canopy Species	% Cover	Size Class	DBH	Age	Canopy Species	Density	Avg. Height	Size
								White Pine	35	Log/Pole/XLog	12	133	White Pine	High	Variable	Sapling
								Red Pine	35	XLog/Log/Pole	20		Witch Hazel	Trace	5 - 10 feet	Tall Shrub
								Bigtooth Aspen	15	Log/Pole/XLog	14		Balsam Fir	Low	Variable	Sapling
													Beech	Low	Variable	Sapling
													White Oak	Medium	Variable	Sapling
													Black/Red (Hybrid) Oak	Medium	Variable	Sapling
													Red Maple	Low	Variable	Sapling
													Black Cherry	Low	5 - 10 feet	Sapling
54	42260 - Natural Pine, Mixed Deciduous	Poletimber Medium	30.8	25	51-80	N/A	West edge of original stand was flooded and has been redrawn and reclassified. Scattered wolfy supercanopy red pine, white pine, and white oak. North half of stand has less residual BA than south. It would be difficult to separate the north from the south, but from one end to the other, this stand feels very different. North is dominated by sapling/pole oak, aspen, red maple. South has higher residual red and white pine. Hard to accurately represent white pine classes/ages with MiFI restrictions. Stand can be described by supercanopy LPX with S/P regen. Pole overall. White oak occupies more of the crown in a log class, lesser as saplings 4". Harvested in 1994 as Old Growth Red, 52-043-91-01: shortwood operation, harvest all jack pine, aspen, red oak, and mixed hardwood 2" dbh and greater.									
								Canopy Species	% Cover	Size Class	DBH	Age	Canopy Species	Density	Avg. Height	Size
								Red Pine	15	Log/Pole/Sap	14		Black/Red (Hybrid) Oak	High	Variable	Sapling
								Black/Red (Hybrid) Oak	8	Sapling/Pole/Log	4		White Oak	Low	Variable	Sapling
								Bigtooth Aspen	15	Sapling/Pole	4	25	White Pine	Medium	Variable	Sapling
								White Pine	50	Pole/Sap/Log	6	25	Balsam Fir	Trace	Variable	Sapling
													Red Pine	Trace	Variable	Sapling
													Blueberry/Bilberry/Cranberry	Medium	< 5 feet	Tall Shrub



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																												
55	42220 - Natural Jack Pine	Sawtimber Well	26.8	70	51-80	N/A	Very heavy browsing pressure. Areas of more pure jack pine are still pole/log, 8" average. More white pine and oak in north half of stand. North edge has a fair amount of aspen and oak with jack and red pine. Tiny J3 inclusion in far south, about a half-acre.																																																												
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56	42220 - Natural Jack Pine	Poletimber Medium	1.3	43	1-50	N/A	OPIC - FMD: THIS ONCE WAS AN OPEN STAND THAT IS FILLING IN WITH JACK PINE. MOST IS OPEN-GROWN SCRUB.																																																												
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57	4310 - Pine, Oak Mix	Sawtimber Medium	10.8	88	51-80	N/A	Far south has a consistent canopy of oak and aspen overtopping pole plantation red pine. Rest of stand is natural oak, pine, and aspen. Very heavy deer traffic through stand. Heavy browsing pressure on regen. Artificial regen may be needed to have a quality future stand when/if harvested.																																																												
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58	42110 - Planted Red Pine	Poletimber Well	9.9	59	111-140	N/A	Far south tip hosts a small opening with scrub oak, jack pine, black cherry. Private fence along east edge of stand. Little bit of aspen mixing in with the north tip, otherwise sparse throughout the stand. Most jack pine occurs in the north half of the stand. White pine and oak are fairly evenly scattered. Guessing a lot of blueberry and sweet fern under snow. Planted in 1960, form 151.																																																												
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59	4130 - Aspen	Sapling Medium	11.1	4	1-50	N/A	Stand was harvested in 2015, Woodcock Mix 52-121-11-01. Bigtooth and poorly formed multi-stemmed red maple dominate regeneration with a few oak saplings, mostly residuals that made it above browse height before this stand was harvested. Decent stocking of oak (and red maple), but they're heavily browsed and exist <3', not making representation in canopy (and are unlikely to recruit). Western and southern portions of this stand are coming back nicely to aspen; fairly well stocked. Central and eastern portions are understocked. Trace white spruce (just one) and beech saplings. 10-30 BA of residual oak, pine. (RP interplanted in 1960.)																																																			
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60	4191 - Mixed Upland Deciduous with Conifer	Sapling Medium	19.0	16	1-50	N/A	Nice red pine regeneration in landing. Good amount of jack pine, especially in north. More residual oak in south half of stand with maple, white pine, and oak regen underneath. Harvested in 2003 as Wildwood Popple, 52-127-01-01: clearcut, except do not cut any white oak.																																																			
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61	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Medium	14.7	77	51-80	N/A	Pin oak are Xlog, multi-stemmed and occupy a good amount of canopy space, though there are few stems/ac. 32" WP in NE. Scattered Xlog RP. A lot of white pine saps and pole are vying for canopy position. Oak and pine are dominant, except in the northwest where aspen clones are interspersed with white pine. Heavy browsing pressure and a lot of deer trails through this stand. Trace jack pine in canopy. Couple spikes in BA, 100-150 in dense white pine/aspen.																																																			
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62	42110 - Planted Red Pine	Poletimber Well	1.8	59	111-140	N/A	North becomes less consistent red pine with more white pine (except far north, which turns back to homogeneous red pine). Charred bark on red pine in far north. Planted 1960.																																																			
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63	4310 - Pine, Oak Mix	Poletimber Well	7.6	57	81-110	N/A	Significant amount of super-canopy legacy red and white pine west of Astor Road, also some larger diameter bigtooth and oak scattered. White oak prominence increases in the east. Very nice overall diversity: staggered size classes, species diversity, and ages. There is heavy browsing pressure, but there's no lack of successful (and diverse) recruits into the sapling and pole subcanopy. Trace paper birch in south. Trace quaking aspen and beech in canopy. A lot of browsing pressure on oak and maple regen.																																																																									
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64	42200 - Natural White Pine	Sawtimber Well	2.2	133	111-140	N/A	Trace jack pine, paper birch, white oak, and black cherry in canopy. Some brooming in white pine. Many nest formations in brooming, against boles of white pine. Rather unique stand. Bobcat tracks frequently in the spring/summer. Kind of a stretch to say that oak and maple are mingling in the canopy, but they're present. Stand is working on Type 1 Old Growth status - snags forming, large fallen limbs, platey bark on many trees, provides important structural and habitat values. I would estimate some trees to be >150 years old.																																																																									
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65	42111 - Planted Red Pine, Mixed Deciduous	Poletimber Well	20.1	59	141-170	N/A	Scattered live and dead jack pine. Trace black cherry. Galls on white oak regen. Very heavy browsing pressure; few oaks above 5'. East portion of stand has clumpy plantation rows amongst oak, bta, white pine. West is more consistently plantation (less hardwood), with slightly larger diameters. Trace serviceberry, sugar maple in subcanopy. Barred owl present 1/25/2019. Planted 1960, Planting form 152: interplant RP at random spacing.																																																																									
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
66	4130 - Aspen	Sapling Medium	9.6	4	Immature	N/A	Stand was harvested in 2015, Woodcock Mix 52-121-11-01. Multi-stemmed oak, maple. Trace white/red pine saps in canopy. Gall on white oak - gouty oak gall? Affecting many terminal shoots on white oak. Much of the oak isn't above browse height yet, but more than seedling size. Regen (especially oak, red maple) is receiving a lot of browsing pressure. Few residual oak and white pine left standing, <10 BA average across the stand, but residuals are clumpy or multi-stemmed.			
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species		Density	Avg. Height	Size
Bigtooth Aspen		68	Sapling	1	4	White Oak		Medium	Variable	Sapling
Quaking Aspen		10	Sapling	1		Black/Red (Hybrid) Oak		Medium	Variable	Sapling
Red Maple		10	Sapling	1		Beech		Trace	< 5 feet	Sapling
						White Pine		Trace	< 5 feet	Sapling
						Red Maple		Medium	< 5 feet	Sapling
						Witch Hazel		Low	< 5 feet	Tall Shrub
						Red Pine		Trace	5 - 10 feet	Sapling
						Black Cherry		Low	< 5 feet	Sapling
67	4130 - Aspen	Poletimber Well	7.9	65	81-110	N/A		There is no set year of origin for this stand. Aspen colonized with scattered oak and pine over approximately 35 years. Ages are scattered and inconsistent, from 57 to 90 (current 2019). There are trace XL bigtooth as well. BAs vary 60-120. Some galls on white oaks saps. Trace paper birch. Heavy browsing pressure.		
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species	Density		Avg. Height	Size
Quaking Aspen		15	Pole/Log/Sap	6		White Pine	Medium		Variable	Sapling
Bigtooth Aspen		65	Pole/Log/Sap	8	65	Beech	Trace		5 - 10 feet	Sapling
White Pine		7	Log/Pole/XLog	14		Red Maple	Medium		Variable	Sapling
						Balsam Fir	Low		Variable	Sapling
						Black Cherry	Low		Variable	Sapling
						Serviceberry (Juneberry)	Trace		10 - 20 feet	Sapling
						Black/Red (Hybrid) Oak	Low		Variable	Sapling
						White Oak	Low		Variable	Sapling
						Maple Leaved Viburnum	Trace		< 5 feet	Tall Shrub
						Witch Hazel	Low		5 - 10 feet	Tall Shrub
68	4133 - Aspen, Mixed Pine	Sapling Well	19.6	25	51-80	N/A	Significant amount of "supercanopy" red and white pine; some scattered XLog pine. Some decent sapling/pole white oak. 6" pole BTA in areas, but otherwise still sapling dominated. Distinction between log white oak and sapling/pole white oak - they're two different ages and there's an obvious gap between the classes. Red maple has been excluded from the future stand from browsing pressure and being outcompeted by aspen. The majority of it in the subcanopy is <5'. Trace cherry (S/P) in canopy. Trace jack pine PLS on the extreme east edge. West/northwest is dominated by residual white pine. Harvested in 1994 as Old Growth Red, 52-043-91-01: shortwood operation, harvest all jack pine, aspen, red oak, and mixed hardwood 2" dbh and greater. OPIC - FMD: LIKE STAND #54 TO THE NORTH, THIS STAND WAS SHORTWOOD HARVESTED LEAVING THE RED AND WHITE PINE COMPONENT. UNLIKE STAND #54, HOWEVER, THIS STAND IS COMING BACK PRETTY WELL TO ASPEN ALTHOUGH WHITE PINE IS ALSO WELL REPRESENTED.			
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species			Density	Avg. Height
White Pine		29	Log/Pole/XLog	12	69	Black Cherry		Low	Variable	Sapling
Bigtooth Aspen		56	Sapling/Pole	4	25	White Pine		Low	Variable	Sapling
						Red Maple		Low	Variable	Sapling
						Black/Red (Hybrid) Oak		Medium	< 5 feet	Sapling
						White Oak		Low	Variable	Sapling
						Balsam Fir		Low	Variable	Sapling
						Beech		Trace	5 - 10 feet	Sapling
						Witch Hazel		Trace	5 - 10 feet	Tall Shrub



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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69	42200 - Natural White Pine	Poletimber Poor	19.3	72	1-50	N/A	Stand was harvested in 2015 as Woodcock Mix, 52-121-11-01. Scattered red and white pine, oak were left. Inventory showcases residual stand; pine and oak left unharvested. Regeneration is present and adequately stocked, but a lot of it is not yet above browse height. Red maple stump sprouts are somewhere around 50 stems/stump, with all but perhaps 3 or 4 stems heavily browsed. Few oak are above browse height. Some very impressive scattered XL white pine. The far west portion of this stand is on the perimeter of the Berry Creek flooding, still fully stocked P/S/L conifer.
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Canopy Species	% Cover	Size Class	DBH	Age
White Pine	85	Pole/Log/XLog	8	72
Black/Red (Hybrid) Oak	10	Log/XLog	16	71

Canopy Species	Density	Avg. Height	Size
White Oak	High	Variable	Sapling
Black/Red (Hybrid) Oak	High	< 5 feet	Sapling
Red Maple	Low	Variable	Sapling
Bigtooth Aspen	Medium	5 - 10 feet	Sapling
White Pine	Medium	Variable	Sapling
Bracken Fern	Medium	Unspecified	Non-Wood
Balsam Fir	Low	Variable	Sapling
Sweet Fern	Low	< 5 feet	Tall Shrub
Beech	Low	Variable	Sapling
Blueberry/Bilberry/Cranberry	Low	< 5 feet	Tall Shrub
Jack Pine	Trace	< 5 feet	Seeding

70	4310 - Pine, Oak Mix	Poletimber Well	11.8	59	111-140	N/A	Stand was thinned in 2015, Woodcock Mix 52-121-11-01. BA is more accurately 60-140, averaging 110, mode of 120. Variable diameters. Red pine was densely stocked prior to thin and harvested in a take two, leave three manner. Row were planted in highly variable directions and this first entry worked to follow the rows as best as possible but straighten them out where able. Heavy browsing on red maple, oak subcanopy. Dirtbike trail runs through stand. Suppressed interplanted red pine, outcompeted by aspen, oak. 6-8" diameters across the stand with scattered log and sapling sized canopy red pine. Planting form 153 dated 1/19/1960.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Pine	55	Pole/Log/Sap	8	59
Black/Red (Hybrid) Oak	15	Log/XLog/Pole	16	
Bigtooth Aspen	20	Log/Pole/XLog	14	

Canopy Species	Density	Avg. Height	Size
Black/Red (Hybrid) Oak	Medium	< 5 feet	Sapling
White Oak	Medium	Variable	Sapling
Balsam Fir	Low	Variable	Sapling
Black Cherry	Low	Variable	Sapling
Beech	Low	5 - 10 feet	Sapling
Red Maple	Medium	Variable	Sapling
Witch Hazel	Trace	5 - 10 feet	Tall Shrub
White Pine	Low	Variable	Sapling
Blueberry/Bilberry/Cranberry	Medium	< 5 feet	Tall Shrub
Bracken Fern	Low	Unspecified	Non-Wood
Quaking Aspen	Trace	< 5 feet	Seeding
Bigtooth Aspen	Low	5 - 10 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
71	4130 - Aspen	Poletimber Well	46.6	37	81-110	N/A	<p>A good amount of diversity in this stand, though it is largely dominated by aspen. Red maple, sugar maple, ironwood, white pine are suppressed for the most part. Gentle drop in elevation to the north and west; undulating and slightly wet terrain in the southeast. Also a slight drainage and wet pocket in the north-center. Trace ash in canopy (mostly dead). Trace red pine and basswood; trace XL oak. Trace white ash saps in southeast in the lower pocket. Paper birch increases in the southwest. Trace jack pine sapings.</p> <p>Harvested in 1982 as 52-051-81A. Rx to fall all trees, and in RP plantation, cut only aspen and mixed hardwood.</p>		
Canopy Species	% Cover	Size Class	DBH	Age	Canopy Species	Density		Avg. Height	Size
Quaking Aspen	13	Pole/Log/Sap	8		White Pine	Low		Variable	Sapling
Bigtooth Aspen	70	Pole/Log/Sap	8	37	Beech	Low		Variable	Sapling
					Serviceberry (Juneberry)	Trace		10 - 20 feet	Sapling
					Red Maple	Trace		Variable	Sapling
					Autumn Olive	Trace		5 - 10 feet	Tall Shrub
					Black Cherry	Medium		Variable	Sapling
					Maple Leaved Viburnum	Trace		< 5 feet	Tall Shrub
					Blueberry/Bilberry/Cranberry	Low		< 5 feet	Tall Shrub
					Red Pine	Trace		< 5 feet	Sapling
					Balsam Fir	Low		Variable	Sapling
					White Spruce	Trace		< 5 feet	Sapling
					Witch Hazel	Low		Variable	Tall Shrub
					Ironwood	Low		Variable	Sapling
					Sugar Maple	Low		Variable	Sapling
					White Ash	Trace		< 5 feet	Sapling
					Black/Red (Hybrid) Oak	Trace		Variable	Sapling
					White Oak	Trace		Variable	Sapling
72	42111 - Planted Red Pine, Mixed Deciduous	Sawtimber Well	6.6	59	141-170	N/A		<p>Good possibility of a slightly damp drainage through southern portion of stand. Trace pole beech, trace black cherry, ironwood in canopy. It would take a lot of maintenance to get this back into a red pine stand judging by the current subcanopy.</p> <p>Thinned in 2003 as Whitered Pine, 52-132-01-01.</p> <p>1960 interplanting of white pine (planting form 154, 1/19/1960) in south tip.</p>	
Canopy Species	% Cover	Size Class	DBH	Age	Canopy Species	Density	Avg. Height		Size
Red Pine	63	Log/Pole	10	59	Balsam Fir	Medium	Variable		Sapling
Basswood	12	Log/Pole	12		Striped Maple	Trace	5 - 10 feet		Sapling
Bigtooth Aspen	10	Log/XLog	16		Sugar Maple	Low	Variable		Sapling
Black/Red (Hybrid) Oak	7	Log/Pole/XLog	12		Witch Hazel	Trace	10 - 20 feet		Tall Shrub
					Beech	Low	Variable		Sapling
					Balsam Fir	Trace	>20 feet		Pole
					Paper Birch	Trace	>20 feet		Sapling
					Maple Leaved Viburnum	Trace	5 - 10 feet		Tall Shrub
					Ironwood	Medium	Variable		Sapling
					Hazelnut (Spp.)	Trace	5 - 10 feet		Tall Shrub
					Black Cherry	Low	Variable		Sapling
					White Pine	Trace	5 - 10 feet		Sapling
					Red Maple	Low	5 - 10 feet		Sapling
					Black/Red (Hybrid) Oak	Trace	5 - 10 feet		Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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73 4191 - Mixed Upland Deciduous with Conifer Poletimber Well 27.9 74 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Pine	15	Pole/Log	8	59
Bigtooth Aspen	25	Log/Pole/XLog	12	
Black/Red (Hybrid) Oak	30	Log/Pole/XLog	12	74
White Oak	20	Log/Pole	10	

Canopy Species	Density	Avg. Height	Size
Witch Hazel	Trace	Variable	Tall Shrub
Balsam Fir	Low	Variable	Sapling
White Pine	Low	Variable	Sapling
Beech	Trace	Variable	Sapling
Ironwood	Trace	Variable	Sapling
Black/Red (Hybrid) Oak	Low	Variable	Sapling
Red Maple	Low	Variable	Sapling
White Oak	Low	Variable	Sapling

Far north/west quarter of stand was added to this compartment from the adjacent compartment. Stand data reflects the southern 3/4 of the stand. Northwest data was RO 40% 14" Log; WP 35%, WO 10%, BTA 10%, RP 5%. Stand appears somewhat homogeneous in all imageries, but varies greatly from north to south on the ground. The north half appears two-aged with log/x-log oak (14" average) surrounded by planted red pine which was suppressed by competing aspen and oak of a very similar age. There's a gradual transition then to the south which is dominated by oak (10" average), generally smaller in diameter than oak in the north, with more red maple, white pine, and paper birch. There are scattered jack pine, quaking aspen, and balsam fir in the canopy as well. AREAS ADJACENT TO STAND #70 WERE UNDERPLANTED WITH RED PINE IN 1960 BUT MOST OF THE RED PINE IS SUPPRESSED. WILDLIFE SUGGESTED HOLDING THIS STAND FOR TEN YEARS IN ORDER TO DIVERSIFY AGE CLASSES IN THE IMMEDIATE VICINITY. 1960 interplanting of white pine (planting form 154, 1/19/1960).

74 42100 - Planted White Pine Poletimber Well 7.3 59 111-140 N/A

Canopy Species	% Cover	Size Class	DBH	Age
White Pine	80	Log/Pole	10	59
Basswood	10	Log/Pole/XLog	12	

Canopy Species	Density	Avg. Height	Size
Beech	Low	5 - 10 feet	Sapling
Balsam Fir	High	Variable	Sapling
White Ash	Low	Variable	Sapling
Ironwood	Medium	Variable	Sapling
White Pine	Trace	Variable	Sapling
Black Cherry	Low	< 5 feet	Sapling
Maple Leaved Viburnum	Trace	< 5 feet	Tall Shrub
White Spruce	Trace	Variable	Sapling
Sugar Maple	Trace	5 - 10 feet	Sapling

A lot of deer tracks through stand, moreso than any other stand in the southern portion of this compartment. A lot of browsing pressure as well. Thinned in 2003 as Whitered Pine, 52-132-01-01. 1960 interplanting of white pine (planting form 154, 1/19/1960). OPIC - FMD: THIS WHITE PINE PLANTATION WAS ESTABLISHED ON A NORTHERN HARDWOOD SITE. IT WAS THINNED IN 2003 WITH A RESULTING FLUSH OF HARDWOOD REGEN. THERE IS ALSO QUITE A LOT OF HARDWOOD REPRESENTED IN THE OVERSTORY.

75 4130 - Aspen Sapling Medium 16.5 4 Immature N/A

Canopy Species	% Cover	Size Class	DBH	Age
Bigtooth Aspen	75	Sapling	1	4
Red Maple	10	Sapling	1	

Canopy Species	Density	Avg. Height	Size
Ironwood	Trace	< 5 feet	Seeding
Balsam Fir	Low	Variable	Sapling
Blackberry/Raspberry	Low	< 5 feet	Tall Shrub
Black/Red (Hybrid) Oak	Low	< 5 feet	Seeding
White Oak	Trace	< 5 feet	Seeding
Witch Hazel	Low	Variable	Tall Shrub
Maple Leaved Viburnum	Trace	< 5 feet	Tall Shrub
White Spruce	Trace	< 5 feet	Seeding
Beech	Trace	5 - 10 feet	Sapling

Stand was harvested in 2015, Woodcock Mix 52-121-11-01. Significant browsing pressure. Aspen, red maple (multistemmed), and cherry have escaped browse, with trace oak making it above browse height. Surprising amount of witch hazel in northeast (and some in south). Thistle present. Trace paper birch in northwest. Snow conditions made it difficult to fully assess regeneration (density and composition), but aspen regen is successful and meets minimum stocking standards. Might be 75-100% stocked. West edge of stand begins to drop down toward Berry Creek corridor. Hillside in southeast appears understocked - aspect is north/northwest and it does not receive a lot of sunlight. I'd expect higher stocking of balsam fir and some shade-tolerant species to begin occupying this slope. Trace red pine volunteers (seeding in from adjacent plantation). Stand was final harvested, completed in 11/2015. Residual XO (log) were marked to leave for mast production.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																	
76	4110 - Sugar Maple Association	Poletimber Well	18.5	96	111-140	N/A	Trace bigtooth, ironwood in canopy. One dead black cherry. Paper birch associated with oak. More oak (white oak picks up) in southwest moving up a ridge. Red maple increases along ridge and dominates the far southwest ridgetop as poles. Stand generally has a north/northeast slope, gradual but a bit steeper in southwest. Trace elm in canopy. Very slight drainage through stand.																																																																	
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77	4199 - Other Mixed Upland Deciduous	Poletimber Well	6.1	37	51-80	N/A	Hare tracks. Sapling/pole stand alternating with log/X aspen and oak. Stand was manually cut in 1982 by Wildlife for deer feeding, but is patchy in nature. Areas that were cut are dominated by oak and red maple. Very successful regen (although not the gretaest form), even if it took time to develop. Rx was to cut all trees EXCEPT oak and red pine.																																																																	
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78	42110 - Planted Red Pine	Sawtimber Well	19.9	59	111-140	N/A	.75ac inclusion in northeast of maple, oak, basswood, and beech. Scattered aspen and black cherry throughout stand. One nice log ironwood in east. Variable regen species distribution. Some areas are oak/beech/red maple/ironwood, other areas are sugar maple/ironwood. Balsam fir densities vary. Smaller pine diameters in northwest with high balsam fir regen. Does the soil change across this stand? Trace hazelnut on south edge of stand. Marked thin in 2003 as Whitered Pine, 52-132-01-01. Third row thinned in 1989, 52-052-88-01. 1960 year of origin. 1979 cut/girdling of all hardwood and aspen within pine plantation. OPIC - FMD: THIS STAND HAS HAD TWO DIFFERENT THINNING OPERATIONS, MOST RECENTLY IN 2003. THIS IS NICE QUALITY RED PINE GROWING ON A NORTHERN HARDWOOD SITE.																																																																	
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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79	42100 - Planted White Pine	Sawtimber Well	2.4	59	111-140	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age
White Pine	83	Log/Pole	12	59
Red Pine	15	Log/Pole	12	

Canopy Species	Density	Avg. Height	Size
Balsam Fir	Low	Variable	Sapling
Maple Leaved Viburnum	Trace	< 5 feet	Tall Shrub
Beech	Medium	Variable	Sapling
Black/Red (Hybrid) Oak	Trace	5 - 10 feet	Sapling
Ironwood	Medium	Variable	Sapling
American Elm	Trace	>20 feet	Sapling
Sugar Maple	High	Variable	Sapling
Red Maple	Trace	Variable	Sapling
Striped Maple	Trace	5 - 10 feet	Sapling
Black Cherry	Low	Variable	Sapling
Black Cherry	Trace	>20 feet	Pole
White Pine	Trace	Variable	Sapling
White Oak	Trace	5 - 10 feet	Sapling
Basswood	Trace	>20 feet	Pole
Balsam Fir	Trace	>20 feet	Pole

Not exceptionally high quality, but a nice bit of diversity in covertime. BAs range 120-170. When this stand is final harvested, higher quality white pine should be left to provide structural, composition, and habitat diversity. Heavy browsing and poor form on the subcanopy. Thinned in 2003 as Whitered Pine, 52-132-01-01. 1979 cut/girdling of all hardwood and aspen within pine plantation. 1960 Year of Origin. OPIC - FMD: THIS IS A DECENT QUALITY WHITE PINE STAND THAT HAS BEEN TREATED TWICE MOST RECENTLY IN 2003. THIS WAS DEFINITELY PLANTED ON A NORTHERN HARDWOOD SITE.

80	4131 - Aspen, Oak	Sawtimber Well	7.5	97	111-140	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age
Bigtooth Aspen	55	Log/Pole	12	97
Jack Pine	8	Log/Pole	10	81
Red Pine	6	Log/XLog/Pole	16	135
Red Maple	6	Pole	7	
Black/Red (Hybrid) Oak	15	Log/Pole	12	

Canopy Species	Density	Avg. Height	Size
White Oak	Medium	Variable	Sapling
Black/Red (Hybrid) Oak	Medium	Variable	Sapling
Red Pine	Low	Variable	Sapling
White Pine	Low	Variable	Sapling
Balsam Fir	Trace	Variable	Sapling
Beech	Trace	Variable	Sapling
Blueberry/Bilberry/Cranberry	Medium	< 5 feet	Tall Shrub

Surprising amount of natural red pine regeneration. West facing hillside, steeper in north. Slope was intentionally left as retention when adjacent stand was harvested.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																						
81	42210 - Natural Red Pine	Sawtimber Medium	2.2	56	81-110	N/A	Southwest appears to get damp. One V. cassinoides. Pretty well developed hardwood subcanopy of sugar maple and ironwood with cherry, oak, and aspen. BAs are 70-130. Manage this stand for hardwood, thinning as appropriate with adjacent hardwood.																																																																						
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82	4199 - Other Mixed Upland Deciduous	Sapling Medium	4.7	27	Immature	N/A	East portion of stand is more of an oak/ironwood/pine mix, while the west portion is more aspen/maple/cherry, though there's more oak in the overstory ("supercanopy" position to sapling crowns) in the west. Highly variable stand. Red pine on east perimeter and trace in east half; trace sugar maple, basswood log on east perimeter, too. East portion is rather poor quality, semi-open in nature. Appears that the far east was an old landing. Extreme west edge was involved in 1979 cut/girdling of all hardwood and aspen within pine plantation. OPIC - FMD: THIS APPARENTLY WAS CUT IN 1992. THE PARENT STAND MUST HAVE BEEN HEAVY TO HARDWOODS SINCE THE ASPEN REGENERATION IS NOT REAL VIGOROUS. WIDELY SCATTERED RESIDUAL THROUGHOUT.																																																																						
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83	4119 - Mixed Northern Hardwoods	Sawtimber Well	1.5	92	111-140	N/A	Trace elm, cherry, beech, and birch in canopy. A rather nice little stand of hardwood.																																																																						
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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84 4110 - Sugar Maple Association Sawtimber Well 5.8 82 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	40	Log/Pole/XLog	12	82
Basswood	45	Log/Pole/XLog	12	82

Canopy Species	Density	Avg. Height	Size
Sugar Maple	Low	Variable	Sapling
White Pine	Trace	>20 feet	Pole
Ironwood	Medium	Variable	Sapling
Beech	Low	Variable	Sapling
White Pine	Trace	< 5 feet	Sapling
Maple Leaved Viburnum	Low	Variable	Tall Shrub
White Oak	Trace	< 5 feet	Sapling
Prickly Or Wild Gooseberry	Trace	< 5 feet	Tall Shrub
Black/Red (Hybrid) Oak	Trace	Variable	Sapling
Balsam Fir	Low	Variable	Sapling
Witch Hazel	Trace	5 - 10 feet	Tall Shrub

Harvested in 2003 as Wildwood Popple, 52-127-01-01: cut only orange marked trees in this unit. OPIC - FMD: THIS STAND ESSENTIALLY HAS A GROUP SELECTION HARVEST DONE IN 2003 IN AN ATTEMPT TO CREATE LARGE REGENERATION HOLES. IT IS TOO EARLY TO JUDGE IF THIS TREATMENT WAS EFFECTIVE OR NOT. Infeasible to treat portion west of snowmobile trail alone. Areas that didn't receive gaps in 2003 have BAs in the 110-140 range, but area is too small to reasonably prescribe a selection on the remaining acreage.

85 4130 - Aspen Sapling Well 0.6 27 Immature N/A

Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	10	Sapling/Pole	2	
Pin Cherry	15	Sapling/Pole	4	
Quaking Aspen	65	Sapling/Pole	4	27

Canopy Species	Density	Avg. Height	Size
Pin Cherry	Low	Variable	Sapling
Ironwood	Low	Variable	Sapling
Basswood	Trace	Variable	Sapling
Balsam Fir	Trace	5 - 10 feet	Sapling
Hazelnut (Spp.)	Trace	< 5 feet	Tall Shrub
White Oak	Trace	5 - 10 feet	Sapling
Sugar Maple	Medium	Variable	Sapling
Beech	Trace	10 - 20 feet	Sapling

Buried cable on north side of Berry Creek Rd. THIS WAS A PATCH CLEARCUT DONE WHEN THE ADJACENT RED PINE WAS THINNED IN 1992.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																													
86	42110 - Planted Red Pine	Sawtimber Well	6.6	59	141-170	N/A	<p>Marked Thin in 2003 as Whitered Pine, 52-132-01-01. Third Row Thin in 1993, Turkey Feather Red Pine, 52-032-91-01.</p> <p>Trace black cherry, aspen, and sugar maple in canopy. Dense desirable regen; a lot of advanced sugar maple 20' in southwest, 10-20 throughout rest of stand. Trace hawthorn in northeast leg. One XLog hemlock on west edge of northeast leg.</p> <p>OPIC - FMD: THIS STAND WAS THINNED TWICE SINCE BEING PLANTED IN 1960. THIS IS DEFINITELY GROWING ON A NORTHERN HARDWOOD SITE. GRWOTH RATES ARE VERY IMPRESSIVE BUT SO IS THE HARDWOOD UNDERSTORY.</p>																																																																													
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87	4130 - Aspen	Sapling Well	15.6	16	Immature	N/A	<p>Harvested in 2003 as Wildwood Popple, 52-127-01-01: clearcut, except do not cut any white oak. Some patchiness, especially in northwest and central portions of stand, but I'm comfortable calling this an A3.</p> <p>Heavy browsing on subcanopy species. Paper birch confined to the north. One yellow birch. West of snowmobile trail has a dense pocket of PSL balsam fir. Scattered pockets of scotch pine and autumn olive.</p> <p>Scotch pine is fairly easily identified in aerial imagery. Some occurrences of autumn olive have been GPS'd.</p>																																																																													
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88	4110 - Sugar Maple Association	Sawtimber Well	6.7	91	111-140	N/A	Possible drainage through stand. One 4" yellow birch. More ironwood regen in south half and on west edge. Very nice stand - probably the best hardwood in this compartment. Barbed wire along north edge.																																																	
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89	330 - Low-Density Trees	Nonstocked	0.6		Unspecified	No	Some distinct red oak. Most hardwood present in present in S/P/L. Wire along edge of dump. OPIC - FMD: A FAIRLY LARGE PILE OF SCRAPE METAL LIES WITHIN THIS OPENING.																																						
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90	4110 - Sugar Maple Association	Sawtimber Well	0.3	72	111-140	N/A	Newer lathe in northeast corner, but did not locate actual corner. Very nice little stand.																																													
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91	4126 - White, Black, N. Pin Oak	Sawtimber Medium	14.6	75	51-80	N/A	Trace red maple, bigtooth aspen in canopy. Southwest has more red pine in canopy than rest of stand. Lots more natural red pine regen and red maple, too. Light trails (two-tracks) meander throughout this stand. Some variability in the canopy composition in this long, narrow stand, but generally oak dominated with jack pine.																																																																																
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92	42200 - Natural White Pine	Sawtimber Well	0.7	84	81-110	N/A	This is the remaining portion of stand 52. Rest has been flooded and is no longer forested. This stand has formed over many years of various disturbances. It is the future seed source for the adjacent stands which are currently flooded. Lot of snags, L/Xlog; big coarse woody debris. Pileated activity. Beaver activity. Trace oak, black cherry in canopy.																																																																																
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93	4119 - Mixed Northern Hardwoods	Sawtimber Well	4.9	113	81-110	N/A	Basswood dominated, but a rather diverse stand. Trace BAM, red maple, black cherry, white pine, red pine, white oak, beech, and elm in canopy. Indicators of wetness, potentially sensitive soils. Hillside to south is clay - water likely runs into this stand and sits, as it's the bottom of a small bowl. Some amazing sugar maple regen in southwest and scattered throughout. Advanced balsam fir regen in spots at high to full density. Very nice sugar maple saplings above browse height. Multi-stemmed basswood. One XL sugar maple on east edge. SE climbs a hill, resulting in better quality hardwood.																																																																																
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94	4133 - Aspen, Mixed Pine	Sawtimber Medium	3.9	46	81-110	N/A	Visual break between harvest and travel corridor. South end transitions to pole timber, dominated by jack pine. North is a mix of aspen, red/white pine, oak.																																																				
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95	6230 - Cattail	Nonstocked	3.9	0	Unspecified	No	This multi-part stand is portions of parent stand 49 (W4) which were flooded by beaver activity and have failed to regenerate. Inundated since 2016 (to current 2019). In the sale area, scattered red and white pine were left in an attempt to regenerate this stand to natural white pine, mixed deciduous in Woodcock Mix, 52-121-11-01 (complete 2015). Beaver flooding has affected portions of this stand on the south and west edges; these portions have been separated and reclassified as non-forested stands (due to mortality following flooding). Cattails and bullrush now occupy flooded portions of stand.																																																				
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96	6229 - Mixed lowland shrub	Nonstocked	0.7	0	Unspecified	No	Cedar, fir, and BAM are present in sap/pole. Probably ferns and possibly moss on hummocks.																																																				
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97	4310 - Pine, Oak Mix	Poletimber Well	6.1	69	51-80	N/A	Distinct deviation from jack pine - split into new stand to reflect red pine canopy with oak, aspen. BAs range 40-120, hovering mostly in the 60-90 range. Trace red maple, P/S/L. 1948 year of origin, with the exception of scattered Xlog red pine. Red pine in the canopy is of various ages. Used "age to breast height" table for current RP age, though it most likely established at the same time as the aspen and oak.																																																				
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98	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	2.3	86	81-110	N/A	East third of stand is dominated by Xlog/log pin oak with red pine and red maple. West two-thirds of stand includes much more red pine, smaller overall diameters, scattered jack pine, bigtooth; oak in east is nice quality pin oak, whereas west is much more marginal hybrid oak. Far western portion occupies a slight west-facing slope into flooding, dominated by sap/pole red pine.																																																							
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99	42200 - Natural White Pine	Poletimber Well	2.6	40	51-80	N/A	Upland streamside along the Sturgeon River dominated by white pine with trace amounts of black cherry, red pine, jack pine, white oak, pin oak, and species listed. Cedar is along streambank and especially dominant in the far south.																																																							
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100	330 - Low-Density Trees	Nonstocked	3.3	0	Unspecified	No	Floodplain alongside the Sturgeon River. North half becomes increasingly forested with cherry, BAM, and oak.																																																							
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Canopy Species	Density	Avg. Height	Size																																																											
White Pine	Trace	Variable	Sapling																																																											
Balsam Poplar	High	Variable	Sapling																																																											
Alder	Low	5 - 10 feet	Tall Shrub																																																											
Ninebark	Low	5 - 10 feet	Tall Shrub																																																											
White Spruce	Trace	5 - 10 feet	Sapling																																																											
Black Cherry	Medium	>20 feet	Pole																																																											
Boxelder	Low	Variable	Sapling																																																											
Willow spp.	Trace	5 - 10 feet	Tall Shrub																																																											
Northern White Cedar	Trace	>20 feet	Log																																																											
Paper Birch	Trace	>20 feet	Log																																																											
Apple (spp.)	Trace	10 - 20 feet	Tall Shrub																																																											
Grape Vine	Low	Unspecified	Vine																																																											
Balsam Fir	Trace	>20 feet	Pole																																																											
Northern Pin Oak	Low	>20 feet	Log																																																											



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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101	4310 - Pine, Oak Mix	Sawtimber Well	6.0	80	1-50	N/A	This stand is sort of a "catch all" with converging covertypes. Varies from acre to acre. A good amount of dead jack pine in the north, making for an open area (50-75% closure) converting to oak with white pine, balsam fir, red pine; jack pine/white pine with oak/aspens mix south of snowmobile trail, more densely stocked. East third of stand is red pine and aspen dominated with white pine and oak.			
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species		Density	Avg. Height	Size
Red Pine		25	Log/Pole/XLog	12	80	Black/Red (Hybrid) Oak		Medium	Variable	Sapling
White Pine		13	Log/Pole/XLog	10		White Pine		Medium	Variable	Sapling
Black/Red (Hybrid) Oak		20	Pole/Log/XLog	8		White Oak		Low	Variable	Sapling
Bigtooth Aspen		20	Log/Pole	12		Beech		Trace	< 5 feet	Sapling
Jack Pine		15	Log/Pole	10		Red Maple		Low	Variable	Sapling
						Red Pine		Low	Variable	Sapling
						Black Cherry		Low	5 - 10 feet	Tall Shrub
						Balsam Fir		Trace	Variable	Sapling

400	3102 - Grass	Nonstocked	7.3		Unspecified	No	Two-acre strip along east edge is forested, pine and oak dominated (L/P/S). Scattered jack pine (P/S/L) and oak (P/L/S) with scrub trace scrub brush. Fence through stand along highway R/W. Overhead electric line corridor with a two track and a corner of Club Road.
Canopy Species		Density	Avg. Height	Size			
Red Pine		Medium	Variable	Log			
Jack Pine		Medium	Variable	Pole			
Black/Red (Hybrid) Oak		Medium	Variable	Pole			
White Oak		Medium	Variable	Pole			
Bigtooth Aspen		Low	>20 feet	Pole			
Quaking Aspen		Trace	>20 feet	Pole			
Red Maple		Trace	Variable	Sapling			

401	3102 - Grass	Nonstocked	11.1		Unspecified	No	Snowmobile trail runs through stand. Sensitive feature in adjacent stand may affect treatment options. 1999 FTP to burn to regenerate grass; stimulate brush and berries. Unknown if FTP actually happened.
Canopy Species		Density	Avg. Height	Size			
Black Cherry		Low	Variable	Pole			
Northern Pin Oak		Trace	>20 feet	Tall Shrub			
Honeysuckle (spp.)		Trace	5 - 10 feet	Tall Shrub			
Blackberry/Raspberry		Low	< 5 feet	Tall Shrub			