



Compartment Review Presentation

Gaylord Forest Management Unit

Compartment 52151

Entry Year 2023

Acreage: 1,637

County Cheboygan

Management Area: Cheboygan Lake Plain

Revision Date: 2021-05-04

Stand Examiner: Tricia St. Pierre

Legal Description:

Cheboygan County, Tuscarora Township

T35N R03W

Sections

25: SWSWNW, SENE except westerly of the Sturgeon River, portions of the NENE, portions of the NESE, and the Rail Trail corridor in E1/2SE;

26: SW, W1/2SE

27: SW, S1/2SE

34: all

35: W1/2, NWNE, W1/2SE

36: the Rail Trail corridor in E1/2 except NWNE, SESE

Identified Planning Goals:

To provide for the protection, integrated management, and responsible use of a healthy, productive, and undiminished forest resource base for the social, recreational, environmental, and economic benefit of the State of Michigan and its inhabitants. To promote native species whenever and wherever appropriate and reasonable to coincide with multiple uses and management objectives across the landscape.

Soil and topography:

The vast majority of this compartment is old lake bed, rather flat with slight narrow gorges of sandy glaciofluvial deposits into Burt Lake. The soils are composed of nearly 97% sand and 3% muck (located adjacent to the Sturgeon River and associated features). In general, each soil taxa influences the Kotar typing. Rubicon Sand supports PARVHa habitats (northern third of main compartment); Zimmerman Fine Sand supports PARVVb (middle third of main compartment); Grayling Sand supports PVCd (southern third of main compartment); and saturated mucks along the Sturgeon River corridor are generally unclassified lowland habitat types.

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

This is a multi-part compartment with a lot of interface with private or other public (i.e. Township and County) property. The private parcels are generally residential with some businesses and church property. The majority of the southern and western perimeter of the primary block abuts State land, but all other boundaries are against private or other public ownership. Included within this compartment is the Indian River Field Office.

Unique Natural Features:

The proximity to Burt Lake and frontage along the Sturgeon River (including a floodplain hardwood forest) are notable features for this compartment.

There are a few known Element Occurrences within this compartment and great potential for other undocumented occurrences. Elements currently present or with potential to be present include, but are not limited to, Sloe Plum (*Prunus umbellata*), Hill's Thistle (*Cirsium hillii*), Red Shouldered Hawk (*Buteo lineatus*), and Bald Eagle (*Haliaeetus leucocephalus*). In addition to terrestrial T&E species, there are known and potential aquatic elements relating to Burt Lake and the Sturgeon River, making it essential that management practices consider effects on the watershed.

The composition and ecosystem adaptations within this compartment are highly characteristic of a Dry Northern Forest adapted to regular fire disturbance.

Archeological, Historical, and Cultural Features:

There are numerous HAL features within and around this compartment. Archaeological hits within sections 25 and 26. Known T&E within section 36.

Special Management Designations or Considerations:

Watershed and Fisheries Considerations:

This compartment is within the Burt Lake watershed, which is within the larger Cheboygan River drainage. The

compartment contains a portion of the Sturgeon River. There are no treatments scheduled near waterbodies, so there are no Fisheries concerns at this time.

Wildlife Habitat Considerations:

This compartment has good access for wildlife-related recreation and is just outside the town of Indian River. It also provides a variety of habitat types for numerous wildlife species, making it a popular area for activities related to wildlife.

Mineral Resource and Development Concerns and/or Restrictions

Sections 25-27 & 34-36, T35N-R3W, Cheboygan Co.

Two active sand/gravel pits are located two miles to the west. The compartment appears to have some sand & gravel potential. There was some minor production of hydrocarbons reported from the Collingwood Formation three miles east, but additional development of the Collingwood in northern Michigan is not thought to be economical at this time. There is no known potential for oil & gas from other known producing formations in this area. There is no known potential for metallic minerals in this part of the state. The State does not own all the mineral rights within the compartment. Because the mineral estate is the dominant estate, reasonable access to the surface must be provided to private owners if they choose to explore or develop their mineral rights.

Vehicle Access:

Vehicular access to this compartment is pretty good with an abundance of roads. The only limitation to accessing the interior portions is unplowed seasonal roads, some of which are designated snowmobile trails. Although roads are plentiful, excessively drained sandy soils bring about two issues: first, the instability of roads and the possibility of heavier vehicles getting stuck, and second, pronounced degradation where trails are abused. This kind of irresponsible riding brings with it safety concerns for reckless drivers and any who follow.

Unfortunately, the proximity of this compartment to private residences and the vast network of roads and trails has provided ample opportunity for illegal dumping of household refuse and yard debris. It may be wise to consider proposing closure of superfluous roads. It is important that any new roads or trails created through management activity be adequately blocked and/or obliterated to prevent future abuse.

Survey Needs:

A careful survey might be needed to verify ownership boundaries within section 26.

Recreational Facilities and Opportunities:

This compartment receives a lot of recreational pressure from various activities throughout the year because of its close proximity to Indian River.

There are numerous recreational trails within this compartment, all of which are motorized for all or part of the year. The nearest trailhead is at White Road, immediately adjacent and providing direct access to this compartment. Trails within include:

- The North Central State Trail: Designated non-motorized trail except during snowmobiling season (becomes Snowmobile Trail 720 12/1 through 3/31)
 - Snowmobile Trails 7, 703, and 720 (720 is also a designated Rail Trail)
 - Tomahawk Trail A Loop - Designated ATV Trail
 - Indian River Route - Designated ORV Route
 - Tomahawk to Kalkaska MCCCT - Designated Michigan Cross Country Cycle Trail (MCCCT)
 - Tomahawk to Red Bridge MCCCT - Designated Michigan Cross Country Cycle Trail (MCCCT)
- Nearby recreational opportunities include:
- Cooperation Park (Township Park offering sports fields and courts, roller/ice rink, hiking trails, picnic areas and pavilion, horseshoes, and a skateboard park)
 - Burt Lake State Park with camping, walking trails, water access, and other opportunities
 - The Sturgeon River providing fishing in season and non-motorized boating/floating opportunities year-round

Fire Protection:

There are many volatile fuels within this compartment adapted to regular fire return intervals. These fuel types extend beyond the compartment boundaries and don't contain many fuel breaks except for roads. Both the DNR and Tuscarora Township Fire Department are within very close proximity to this compartment to provide quick response with fire suppression activities if needed. Water is also available through the Fire Department. The nearest opportunities for drafting would be at Burt Lake State Park (preferred for ease of access at boat launch) or from the Sturgeon River off Fisher Woods Road or possibly north White Road.

Additional Compartment Information:

Forest management activities have not been well received in this compartment. There are many local residents who use the trails or hunt who have felt blind-sided by harvesting. Outreach, education, and better awareness of public involvement may help to alleviate the surprise or objection to forest management in the future.

The following reports from the Inventory are attached:

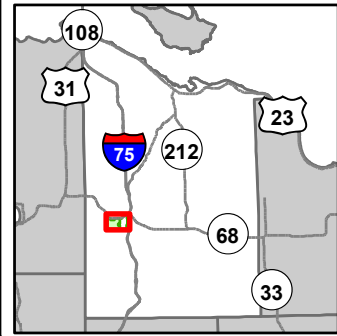
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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**

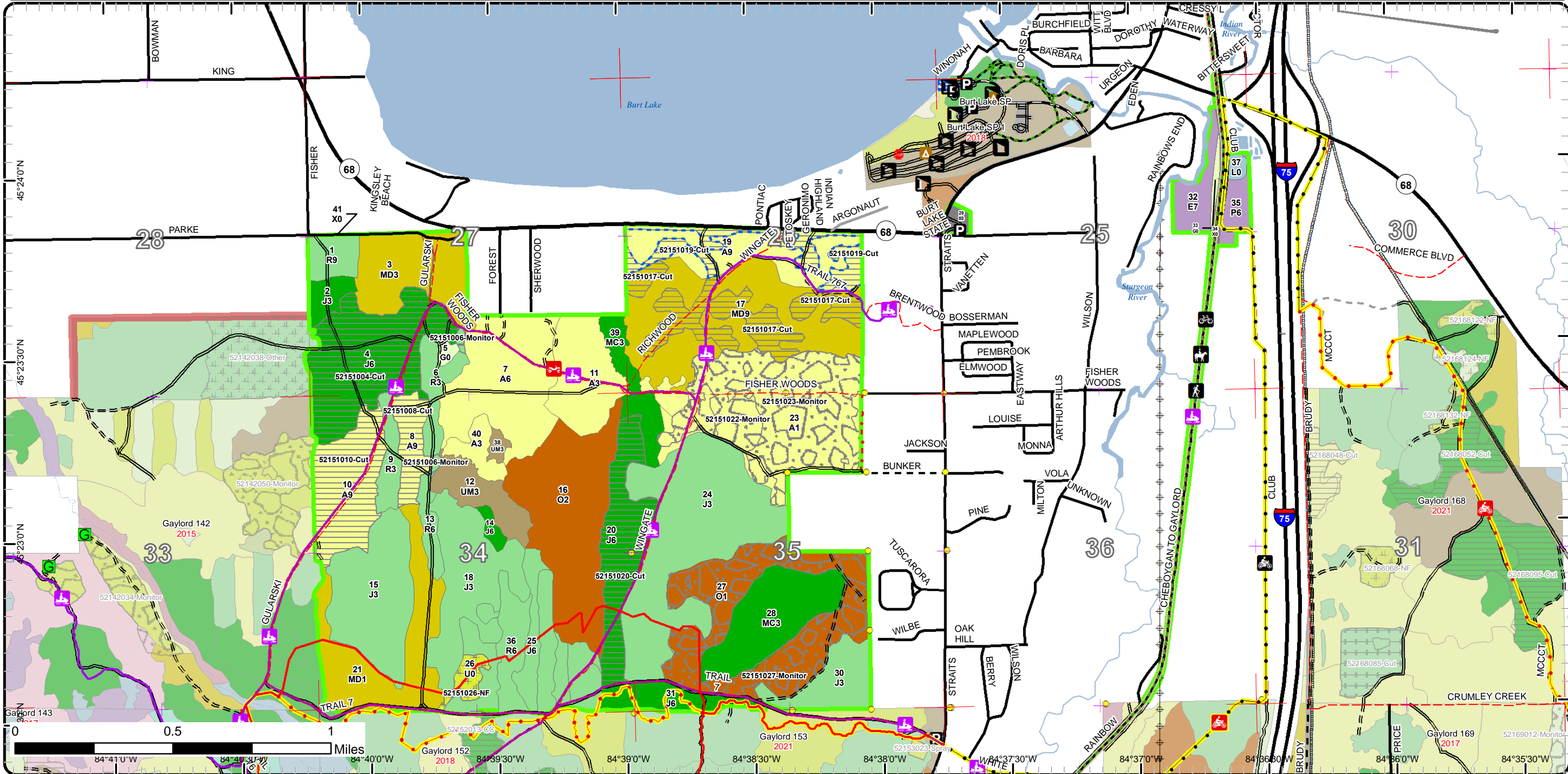
Cover Type & Treatments Map

Compartment: 151
 T35N, R03W, Sec. 25-27, 34-36
 County: Cheboygan
 Unit: Gaylord
 Mgmt Area: Cheboygan Lake Plain
 YOE: 2023
 Acres: 1637.4 GIS Calculated
 Examiner: Tricia St. Pierre
 Map Revised: 10/5/2021
 Map Phase: Post-Review



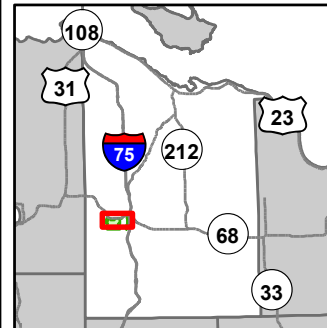
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- + Remonumented Section Corners
- Survey Grade Corners
- Counties
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- DNR - Secondary Forest Road
- DNR - Forest Access Route
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- Boating Access Site
- Culvert
- Campground
- Parking Lot

- Sign
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Powerline
- Compartment Boundary
- Treatments with Site Conditions
- Other Treatment - See Comments
- Clearcut (w/Reserves)
- Regeneration Survey
- 412 - Oak Types
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 622 - Lowland Shrub

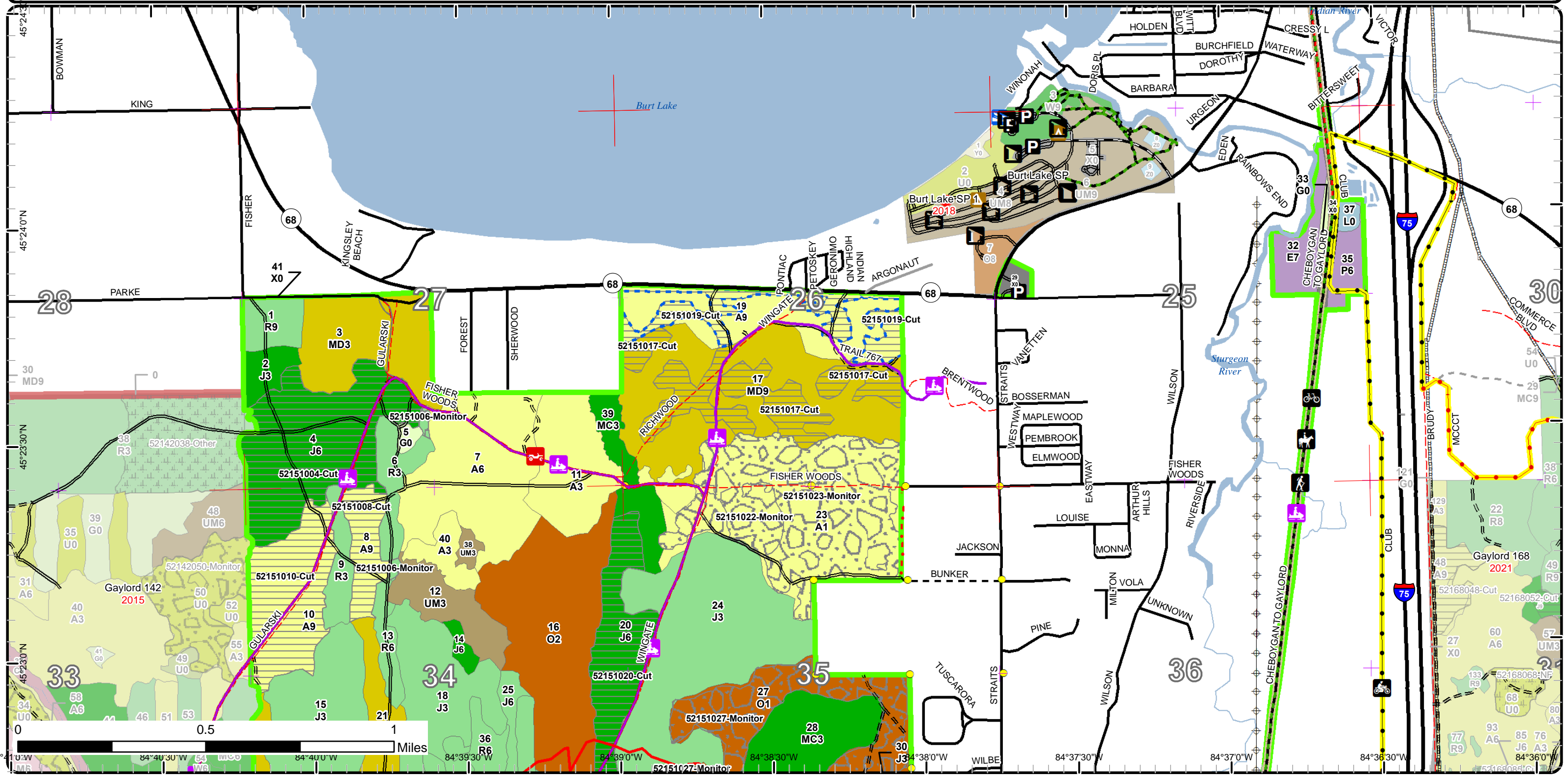


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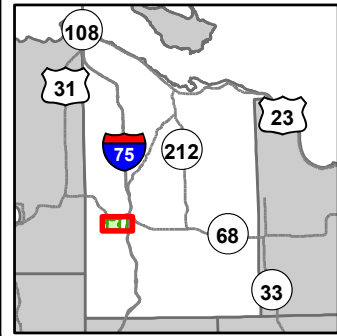


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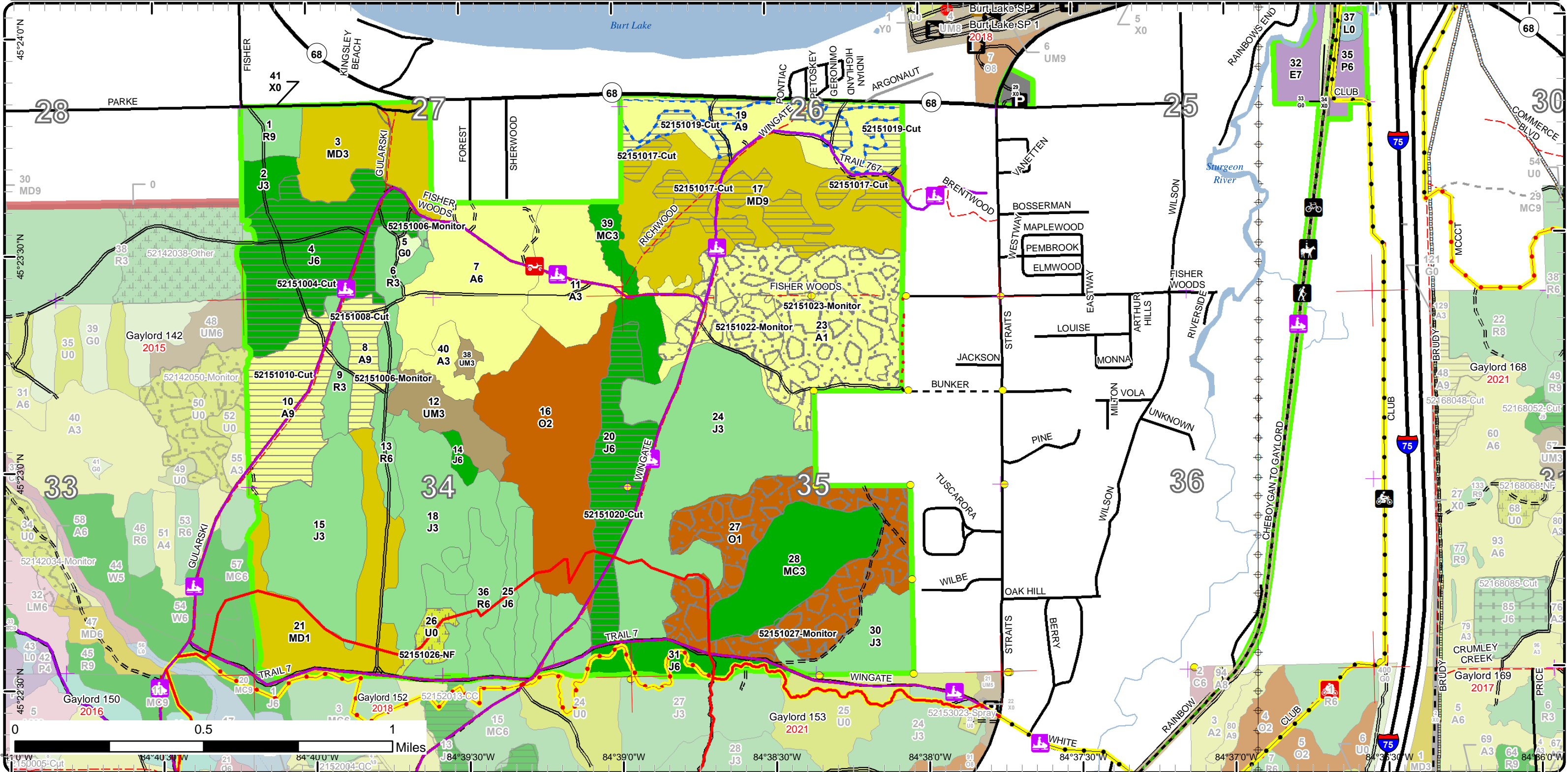


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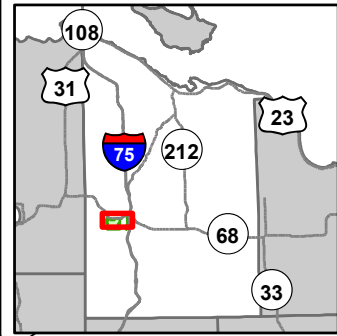


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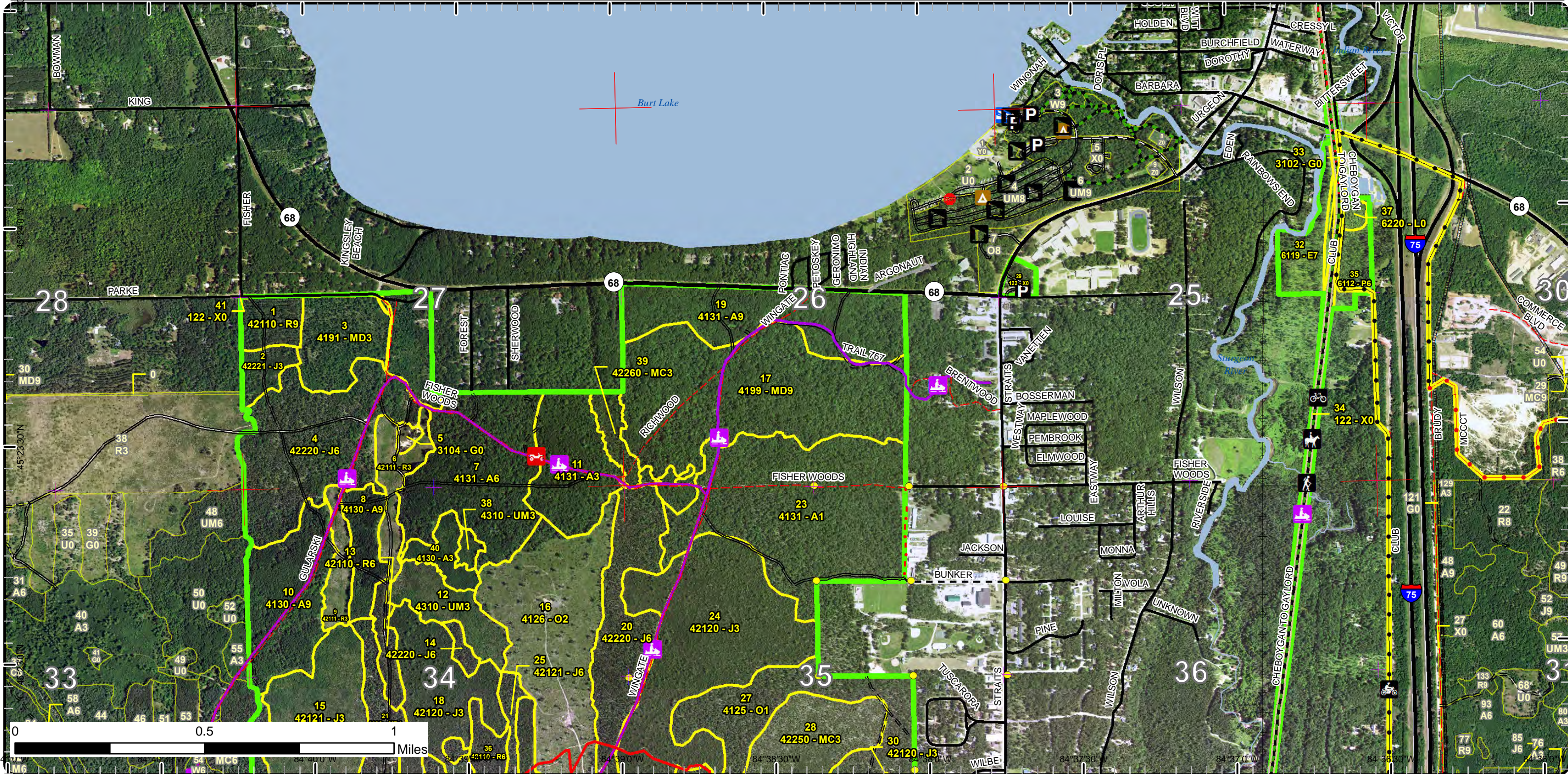


Stand Boundary Map

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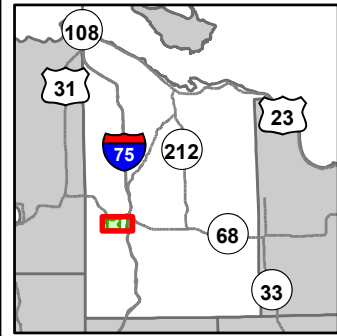


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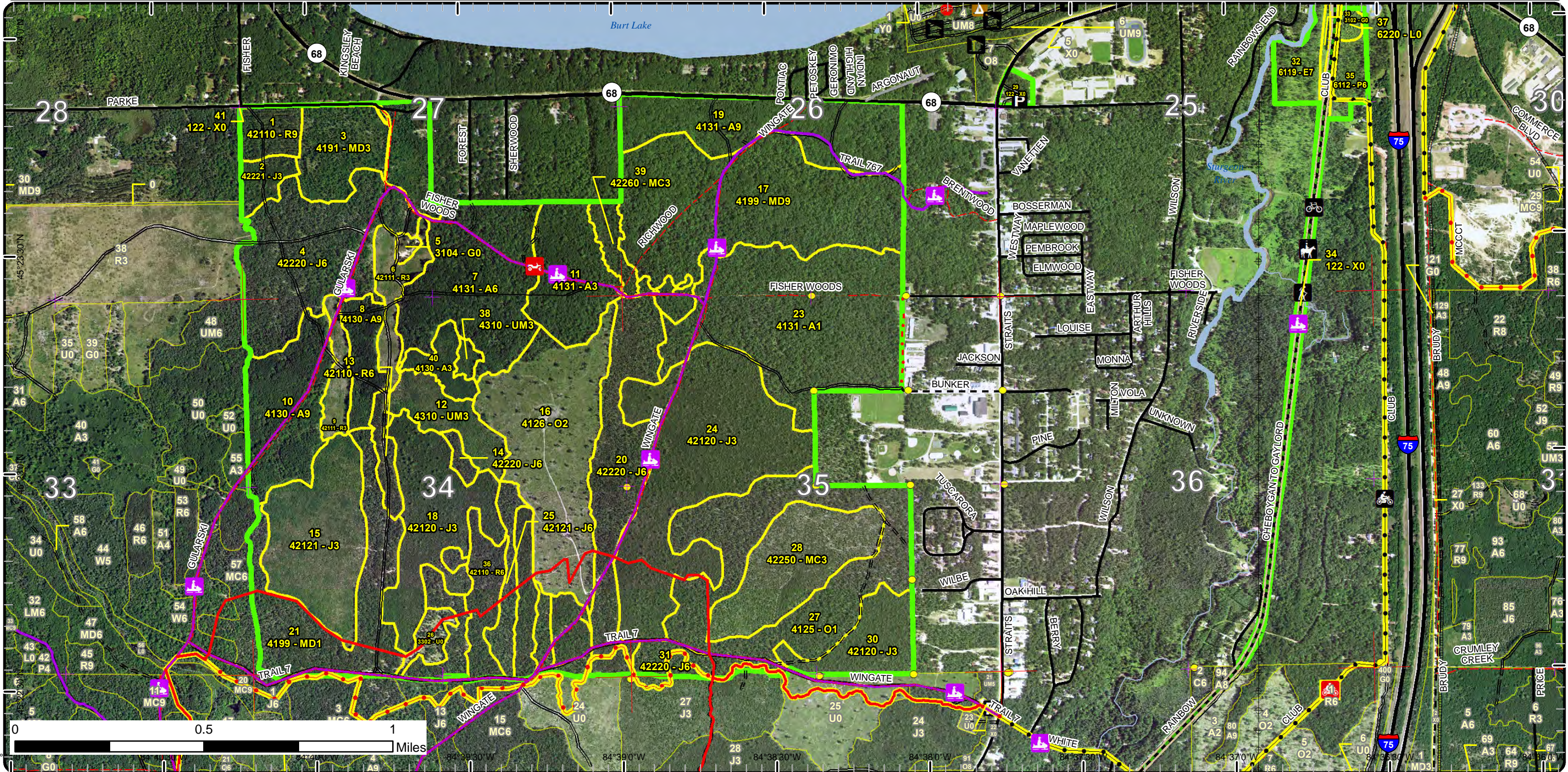


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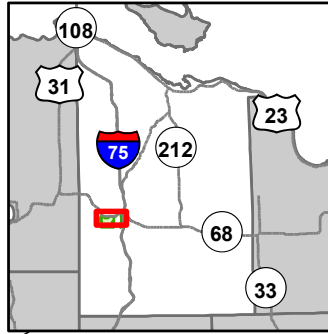


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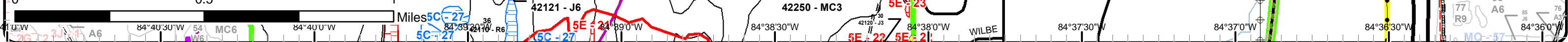
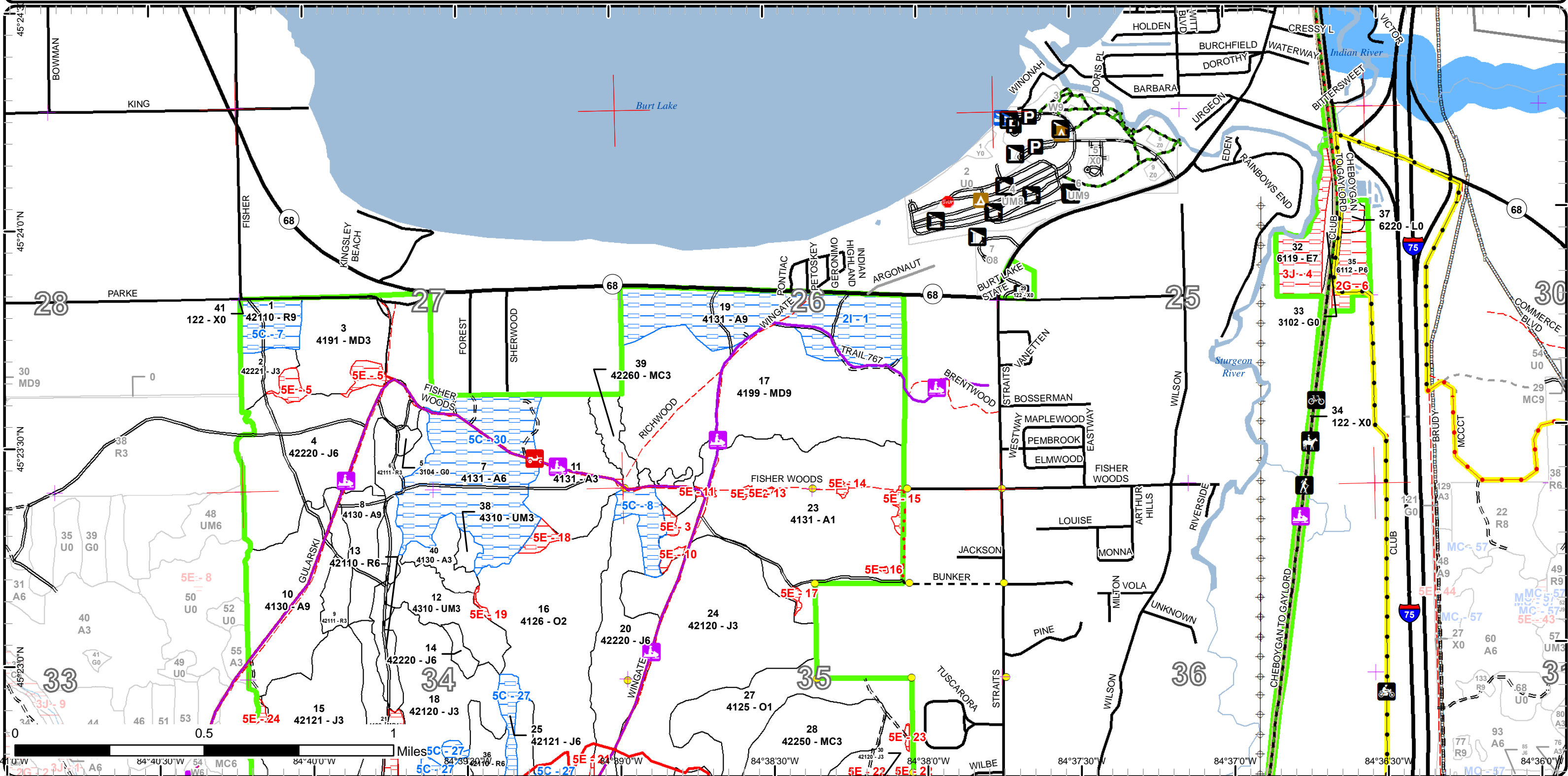


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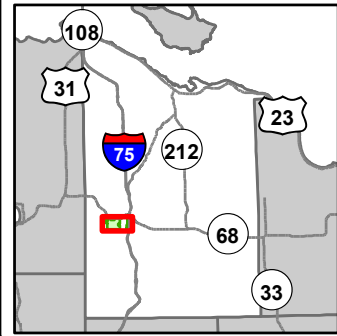


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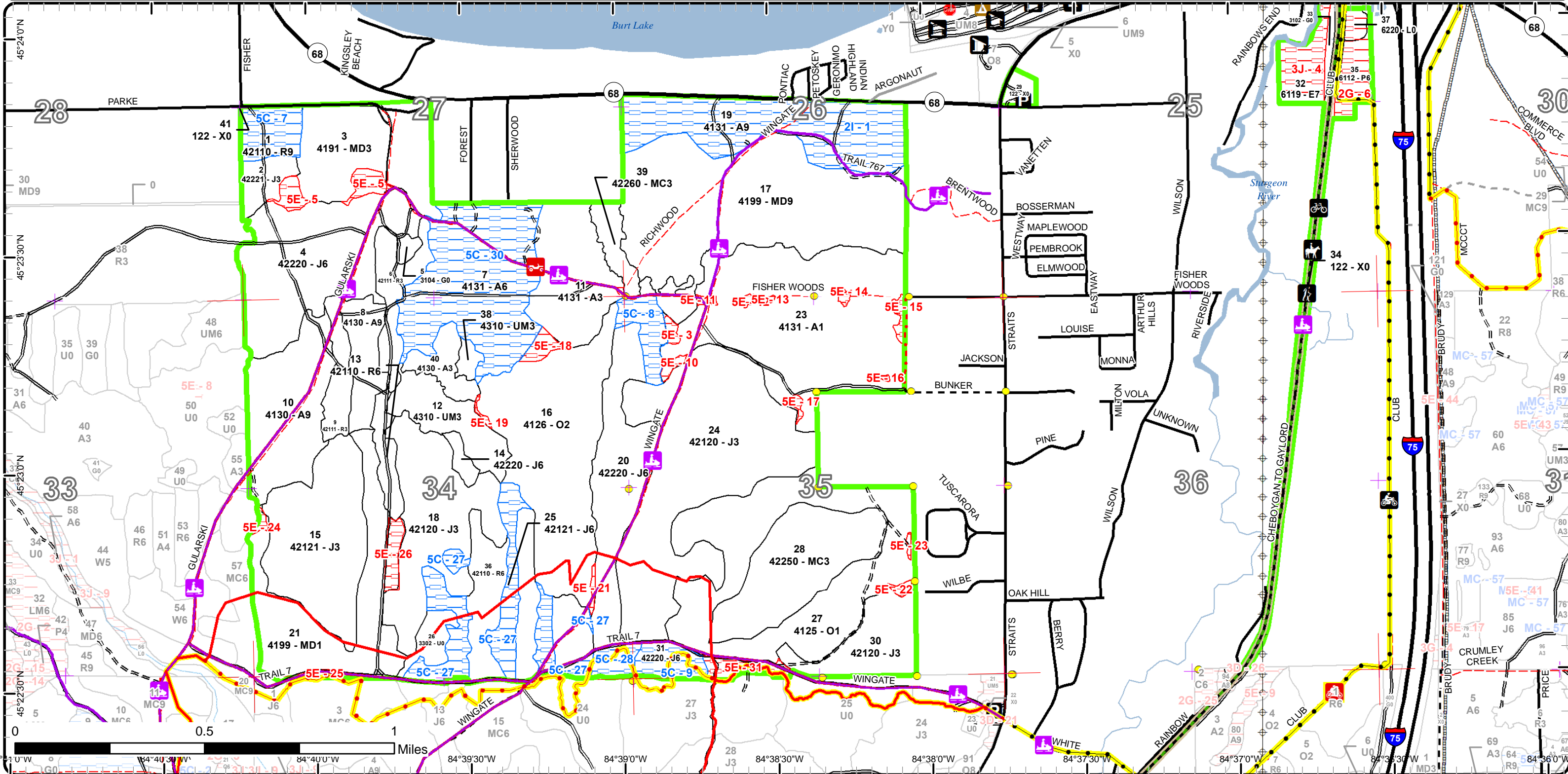


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- Compartment Boundary
- Available w/ Constraints
- 2I: Survey needed
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Unavailable
- 2G: Too wet (sensitive soils, does not include access issues)
- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention
- Stand Boundaries
- SCA





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	131	12	49	0	0	79	71	0	0	69	0	0	0	0	0	0	0	411
Herbaceous Openland	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Jack Pine	0	0	66	200	29	0	0	86	125	0	0	0	0	0	0	0	0	0	506
Low-Density Trees	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Lowland Aspen/Balsam Poplar	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	12
Lowland Deciduous	0	0	0	0	0	0	0	0	0	0	17	0	0	0	0	0	0	0	17
Lowland Shrub	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Mixed Upland Deciduous	0	66	52	0	0	0	0	0	0	0	134	0	0	0	0	0	0	0	252
Natural Mixed Pines	0	0	55	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65
Oak	0	201	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	201
Red Pine	0	31	0	0	0	0	0	10	45	0	14	0	0	0	0	0	0	0	100
Upland Mixed Forest	0	0	27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	27
Urban	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31
Total	47	429	212	259	29	0	79	167	170	0	246	0	0	0	0	0	0	0	1638



Report 2 – Treatment Summary

Gaylord Mgt. Unit

Year of Entry: 2023

Acres of Harvest

Compartment 151

Total Compartment Acres: 1,637

Commercial Harvest - 256
 Harvests with Site Condition - 28
 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	98	0	0	0	0	0	0	0	0	98
Jack Pine	135	0	0	0	0	0	0	0	0	135
Mixed Upland Deciduous	51	0	0	0	0	0	0	0	0	51
Total	284	0	0	0	0	0	0	0	0	284

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Pruning	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	284	0	0	0	0	216	0	8		508
Next Step	0	135	135	0	0	50	503	157	0	979
Total	284	135	135	0	0	50	719	157	8	1487



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

4	52151004-Cut	84.8	42220 - Natural Jack Pine	Poetimber Well	71	81-110	Harvest	Clearcut with Retention	4191 - Mixed Upland Deciduous with Conifer	Even-Aged	No
<p><u>Prescription</u> Final harvest requiring whole tree skidding in snow-off conditions. Do not cut any white oak, red pine, or white pine. Mark to leave red oak</p> <p><u>Specs:</u> >24" dbh at a density of two per acre as available. Sign and protect recreational trail and mark to leave high stumps (minimum 4') at 30-50' increments along the edges of the trail. Add long term retention around relic red pine in southwest.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory); SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring,</p> <p><u>Treatments:</u> Artificial Regen(3yr)</p> <p><u>Acceptable Regen:</u> Acceptable regeneration will meet minimum stocking requirements for deciduous species, primarily oak and aspen. The inclusion of pine at any stocking level will be acceptable. Understocked areas may be planted to jack pine to meet minimum stocking requirements for planted jack pine. Alternative methods of planting may be considered.</p> <p><u>Other Comment:</u> Paint from last YOE will need to be refreshed and adjusted as necessary.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											
6	52151006-Monitor	2.0	42111 - Planted Red Pine, Mixed Deciduous	Sapling Well	8	Immature	Monitoring	Natural Regen (Re-Inventory)	412 - Oak Types	Even-Aged	No
<p><u>Prescription</u></p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Acceptable regeneration includes a moderate stocked amount of Red Oak for future mast production.</p> <p><u>Other Comment:</u> Percent to Treat = 100%</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											
8	52151008-Cut	18.6	4130 - Aspen	Sawtimber Well	64	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Final harvest leaving retention in north to alleviate green-up concerns from adjacent harvest. Retention or exclusions may also be placed elsewhere in the stand if unique features or desirable advanced regeneration exist. Do not harvest any red pine, white pine, or white oak. Do not cut any oak >24" dbh. Require oak wilt spec, Sign and protect all trails affected by harvesting activity.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Acceptable regeneration will meet minimum stocking requirements for aspen. The inclusion of oak and pine at any level will be acceptable. MD covertime will also be acceptable if oak regeneration is significant.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
10 52151010-Cut	51.8	4130 - Aspen	Sawtimber Well	65	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription Specs:</u> Final harvest leaving long term retention in north to alleviate green-up issues with adjacent clearcut. Retention or exclusions may be placed elsewhere in the stand if unique features or advanced desirable regeneration is/are present. Do not cut any white oak, white pine, or red pine. Do not cut any oak >20" dbh. Require oak wilt spec. Sign and protect all trails affected by harvesting activity.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Acceptable regeneration will meet minimum stocking requirements for aspen. The inclusion of oak and pine at any stocking level will be acceptable. Will also accept MD covertime if oak is significant.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										
17 52151017-Cut	50.7	4199 - Other Mixed Upland Deciduous	Sawtimber Well	96	51-80	Harvest	Clearcut with Retention	4131 - Aspen, Oak	Even-Aged	No
<p><u>Prescription Specs:</u> Final harvest in irregular shapes and variable sizes, targeting approximately 40% of the stand acreage during this year of entry. Focus treatments on areas with declining aspen and/or oak, avoiding areas with dense desirable advanced regeneration. Do not cut any hemlock; protect any hemlock within treatment area from scorch by marking leave trees around their crown(s). White and/or red pine may be marked to leave at a density of one tree per acre if high quality phenotypes are present within the treatment area. In addition, leave all trees meeting legacy criteria if present in treatment area. Leave all obvious hollow/den trees. Evaluate for active raptor nests and include appropriate specs. Evaluate for and leave trees meeting legacy tree criteria.</p> <p>Actual treatment boundaries may vary greatly from prescribed locations based on field observations. Sign and protect any recreational trails affected by treatments. Require oak wilt spec.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory); Other, ; Other,</p> <p><u>Acceptable Regen:</u> Acceptable regeneration will meet minimum stocking requirements for aspen with the inclusion of oak (acceptable at any level). Pine volunteers are acceptable at any level.</p> <p><u>Other Comment:</u> Unharvested portion of stand 17 might type out as an MD/O-8 after treatments are prepared.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										
19 52151019-Cut	27.9	4131 - Aspen, Oak	Sawtimber Well	96	111-140	Harvest	Clearcut with Retention	4131 - Aspen, Oak	Even-Aged	No
<p><u>Prescription Specs:</u> Final harvest in irregular shapes and variable sizes, targeting approximately 40% of the stand acreage during this year of entry. Focus treatments on areas with declining aspen and/or oak, avoiding areas with dense desirable advanced regeneration. Harvest a strip along M-68, half to one chain wide. Do not cut any hemlock; protect any hemlock within treatment area from scorch by marking leave trees around their crown(s). White and/or red pine may be marked to leave at a density of one tree per acre if high quality phenotypes are present within the treatment area. In addition, leave all trees meeting legacy criteria if present in treatment area. Leave all obvious hollow/den trees. Evaluate for and leave trees meeting legacy tree criteria.</p> <p>Actual treatment boundaries may vary greatly from prescribed locations based on field observations. Sign and protect any recreational trails affected by treatments. Require oak wilt spec.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory); Other, ; Other,</p> <p><u>Acceptable Regen:</u> Acceptable regeneration will meet minimum stocking requirements for aspen with the inclusion of oak (acceptable at any level). Pine volunteers are acceptable at any level.</p> <p><u>Other Comment:</u> Make visual management considerations along M-68. Locate West 1/2 corner for Section 26 prior to timber prep. Map attached to stand data.</p> <p><u>Site Condition</u> Survey Needed</p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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20	52151020-Cut	49.8	42220 - Natural Jack Pine	Poletimber Well	63	51-80	Harvest	Clearcut with Retention	4191 - Mixed Upland Deciduous with Conifer	Even-Aged	No
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Prescription Final harvest. Do not cut any balsam fir, white pine, or white oak. Require tree-length skidding in snow-off conditions to encourage natural pine regeneration. Utilize long term retention as visual management where appropriate.
Specs: Sign and protect all recreational trails during operations.
 Stand to be prepped in FY2022 and combined with stand 4 treatment.

Next Step Monitoring, Natural Regen (Re-Inventary); SitePrep, Trenching; Pesticide, Skidder - Site Prep; Planting, Initial Plant; Monitoring,
Treatments: Artificial Regen(1yr)

Acceptable Regen: Acceptable regeneration will meet minimum stocking requirements for a mixed upland stand with the inclusion of conifer at any level.

Other Exclude northernmost tip (higher oak, xlog red pine) from harvest.
Comment: Inadequately stocked regeneration should be planted to jack pine.

Site Condition

Proposed Start Date: 10/1 /2021

23	52151022-Monitor	14.7	4131 - Aspen, Oak	Sapling Poor	1	Immature	Monitoring	Natural Regen (Re-Inventary)	42221 - Natural Jack Pine, Mixed Deciduous	Even-Aged	No
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Prescription Acceptable regeneration includes a moderate to well stocked mix of Jack Pine and mixed deciduous species.
Specs:

Next Step
Treatments:

Acceptable Regen: Acceptable regeneration includes a moderate to well stocked mix of Jack Pine and mixed deciduous species.

Other Percent to Treat = 100%
Comment:

Site Condition

Proposed Start Date: 1 /28/2021

23	52151023-Monitor	105.5	4131 - Aspen, Oak	Sapling Poor	1	Immature	Monitoring	Natural Regen (Re-Inventary)	4129 - Mixed Oak	Even-Aged	No
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Prescription Acceptable regeneration includes a moderate to well stocked mix of oak species.
Specs:

Next Step
Treatments:

Acceptable Regen: Acceptable regeneration includes a moderate to well stocked mix of oak species.

Other Percent to Treat = 100%
Comment:

Site Condition

Proposed Start Date: 1 /28/2021



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
26 52151026-NF	8.1	3302 - Low Density Conifer Trees	Nonstocked		Unspecified	NonForestMgt	Other - Specify	3302 - Low Density Conifer Trees		No
<p><u>Prescription</u> Brush, mow, plant, burn, and/or herbicide to maintain opening. Planting of hard and soft mast.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										
27 52151027-Monitor	93.8	4125 - Black, N. Pin Oak	Sapling Poor	1	Immature	Monitoring	Natural Regen (Re-Inventory)	42250 - Pine, Oak	Even-Aged	No
<p><u>Prescription</u> Monitor regeneration during next inventory.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Acceptable regeneration includes a moderate to well stocked mix of pine and oak.</p> <p><u>Regen:</u></p> <p><u>Other</u> Percent to Treat = 100%</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 7 /15/2019</p>										

Total Treatment Acreage Proposed: 507.7

Report 4 – Site Conditions

Gaylord Mgt. Unit

Tricia St. Pierre : Examiner

Compartment: 151

Year of Entry: 2023

Availability for Management

Total Acres	Acres Available	Acres Avail		Acres Not Available	Dominant Site Conditions					
		With Condition			2I	5C	2G	3J	5E	
410	255	148		7	Aspen	69	79			7
5	5	0		0	Herbaceous Openland					
507	427	67		13	Jack Pine		67			13
8	8	0		0	Low-Density Trees					
12	0	0		12	Lowland Aspen/Balsam Poplar			12		
17	0	0		17	Lowland Deciduous				17	
3	0	0		3	Lowland Shrub			3		
251	244	0		7	Mixed Upland Deciduous					7
65	65	0		0	Natural Mixed Pines					
201	195	0		6	Oak					6
100	86	14		0	Red Pine		14			0
27	27	0		0	Upland Mixed Forest					0
32	32	0		0	Urban					
1,638	1,344	229		65	Total Forested Acres	69	160	15	17	33
	82%	14%		4%	Relative Percent					

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

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Available	2I: Survey needed	69	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
3	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	17	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Gaylord Mgt. Unit

Tricia St. Pierre : Examiner

Compartment: 151

Year of Entry: 2023

5	Unavailable	5E: Long-Term Retention	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	15	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	14	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Postpone treatment to combine with red pine thinnings (or final harvest(s)) in the south. Acreage and volume are too small to sell on their own.							
8	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Site condition to be reshaped resulting from timber prep. Portions may be reclassified as long term retention for adjacent stand 20 (final harvest) during timber sale preparation. Area is heavy to oak with the inclusion of Xlog red pine.							
9	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
10	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Gaylord Mgt. Unit
Tricia St. Pierre : Examiner

Compartment: 151
Year of Entry: 2023

11	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
12	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
13	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
14	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
15	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
16	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
17	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
18	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Gaylord Mgt. Unit
Tricia St. Pierre : Examiner

Compartment: 151
Year of Entry: 2023

19	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
21	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
22	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
23	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
24	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
25	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
26	Unavailable	5E: Long-Term Retention	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Gaylord Mgt. Unit

Tricia St. Pierre : Examiner

Compartment: 151

Year of Entry: 2023

27	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	40	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
28	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Postpone treatment until next entry.							
30	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	79	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Smaller diameter aspen. Delay treatment for continued growth.							
31	Unavailable	5E: Long-Term Retention	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Long term retention for stand 27 (current inventory O1 as of winter 2020/2021).							

Mgt. Unit

Compartment: #Type!

Year of Entry:



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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
Comments				



Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

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

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

Conservation Area	Type	Description
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in which the terrestrial ecosystem influences the aquatic ecosystem and vice-versa. Because of the unique conditions adjacent to lakes, streams and open water wetlands, riparian areas harbor a high diversity of plants and wildlife. Riparian communities are ecologically and socially significant in their effects on water quality and quantity, as well as aesthetics, habitat, bank stability, timber production, and their contribution to overall biodiversity.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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1	42110 - Planted Red Pine	Sawtimber Well	13.7	91	81-110	N/A	Thinned in 1993, Four R's Pine, 52-019-93. Basal areas range from 50 to 230, generally 80-150. Rare to find a white pine in the canopy, <1%. Bigtooth aspen and a few jack pine are becoming mid-canopy species. Rare honeysuckle, striped maple, and sweet fern in the subcanopy. A few scattered pole balsam fir as well (most saplings are >20').
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Oak	1	XLog/Log	20		Red Oak	Low	Variable	Sapling
Red Pine	97	Log/Pole	12	91	Bigtooth Aspen	Medium	>20 feet	Sapling
White Oak	2	Log/XLog	14		White Pine	Medium	Variable	Sapling
					Red Pine	Low	< 5 feet	Sapling
					Jack Pine	Low	Variable	Sapling
					White Oak	Low	Variable	Sapling
					Red Maple	Medium	Variable	Sapling
					Balsam Fir	Low	Variable	Sapling
					Juniper	Trace	< 5 feet	Tall Shrub
					Black Cherry	Low	5 - 10 feet	Sapling
					Common Lowbush Blueberry	Low	< 5 feet	Tall Shrub
					Bracken Fern	Trace	5 - 10 feet	Non-Wood

2	42221 - Natural Jack Pine, Mixed Deciduous	Sapling Well	10.0	27	1-50	N/A	Cut in 1993, Four R's Pine (52-019-93). Under the contract, the crew felled all jack pine, white pine, red oak, and aspen, reserving white oak and any red oak or white pine with yellow paint. Evenly distributed residual log red pine and red oak in the overstory. Northwest portion of stand is dominated by bigtooth with red maple, oak, and jack pine. The rest of the stand is dominated by jack pine with varying densities of mixed oak, pine, and aspen. Southeast protrusion is also dominated by aspen. Expect this stand to be solidly into pole class in the next inventory cycle. Trace white and red pine saps present also. Rarely a balsam fir, red maple in the subcanopy. Spotted knapweed and bluestem also present.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Oak	2	Log/Pole/XLog	12		Black Cherry	Low	Variable	Sapling
Bigtooth Aspen	21	Sapling/Pole	4	27	Black/Red (Hybrid) Oak	Medium	Variable	Sapling
Red Pine	3	Log/Pole/XLog	12		White Oak	Low	Variable	Sapling
Jack Pine	64	Sapling/Pole	4	27	Bracken Fern	Medium	Unspecified	Non-Wood
Black Cherry	2	Sapling/Pole	4		Red Pine	Low	Variable	Sapling
Red Maple	2	Sapling/Pole	2		Honeysuckle (spp.)	Trace	5 - 10 feet	Tall Shrub
White Oak	3	Sapling	2		Common Lowbush Blueberry	Medium	< 5 feet	Tall Shrub
White Oak	3	Log	12		White Pine	Trace	5 - 10 feet	Sapling
					Juniper	Trace	< 5 feet	Tall Shrub



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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3 4191 - Mixed Upland Deciduous with Conifer Sapling Well 51.8 18 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	2	Sapling	2	18
Red Oak	15	Sapling/Pole/Log	1	18
White Oak	8	Pole/Sap/Log	8	
Bigtooth Aspen	35	Sapling	2	18
White Pine	15	Log/Pole/Sap	10	
Red Pine	5	Log/Pole/Sap	12	81
Jack Pine	20	Sapling/Pole	2	18

Sub-Canopy Species	Density	Avg. Height	Size
White Pine	Low	Variable	Sapling
Red Maple	Low	Variable	Sapling
Black Cherry	Trace	5 - 10 feet	Sapling
Black/Red (Hybrid) Oak	Medium	Variable	Sapling
Sweet Fern	Medium	< 5 feet	Tall Shrub
Blueberry/Bilberry/Cranberry	Medium	< 5 feet	Tall Shrub
Red Pine	Trace	< 5 feet	Sapling
White Oak	Low	Variable	Sapling
Balsam Fir	Trace	10 - 20 feet	Sapling
Juniper	Trace	< 5 feet	Tall Shrub

Evenly scattered mature residual white pine, red pine, white oak, and red oak. Trace scattered Xlog red pine and white oak. Trace canopy balsam fir (pole/sap). Rare beech in subcanopy. The residual canopy on the east side of the main road through the stand is dominated by white pine with scattered white oak and trace red pine. The west side has higher residual BA with a more diverse mix of red and white pine, white oak, and the occasional hybrid/red oak. Heavy browsing pressure on regeneration. Pleasant diversity in species composition. There's a swath in the northeast between the old road bed and M-68 dominated by pole/log red and white pine with oak. Jack pine and aspen also present. Subcanopy contains balsam fir, buffalo berry (only place I've seen buffalo berry in this area), black cherry, honeysuckle, juniper, red maple, and pine. Immediately south of the old road bed and adjacent to private property is plantation red pine (<1ac), and immediately south of that is an old borrow pit (<1ac) with pole/sap/log balsam poplar, sapling jack pine, trace red and white pine (saps), sweet fern, bracken fern, bluestem, and spotted knapweed. Harvested in 2003 as PU1 of Compartment 151 Jack Pine, 52-122-03.

4 42220 - Natural Jack Pine Poletimber Well 84.8 71 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Black/Red (Hybrid) Oak	7	Log/Pole/XLog	12	
Jack Pine	76	Pole/Log	8	71
Bigtooth Aspen	12	Pole/Log/Sap	7	
Red Maple	1	Pole	6	
Red Pine	1	Log/XLog/Pole	14	
White Pine	1	Log/Pole	12	
White Oak	2	Log/Pole	14	

Sub-Canopy Species	Density	Avg. Height	Size
Black/Red (Hybrid) Oak	Medium	Variable	Sapling
Red Maple	Trace	Variable	Sapling
White Pine	Low	Variable	Sapling
Bracken Fern	Medium	Unspecified	Non-Wood
Common Lowbush Blueberry	Medium	< 5 feet	Tall Shrub
Sweet Fern	Trace	< 5 feet	Tall Shrub
White Oak	Trace	Variable	Sapling
Huckleberry	Trace	< 5 feet	Tall Shrub
Balsam Fir	Trace	>20 feet	Sapling
Wintergreen	Trace	< 5 feet	Tall Shrub
Black Cherry	Trace	Variable	Tall Shrub
Bearberry	Low	< 5 feet	Tall Shrub
Jack Pine	Trace	Variable	Sapling
Juniper	Trace	< 5 feet	Tall Shrub
Serviceberry (Juneberry)	Trace	10 - 20 feet	Tall Shrub

East half of stand and southwest include a good mix of oak and aspen with scattered white and/or red pine amongst jack pine. Relic red pine in southwest. The western half, excluding the northwest, is pretty solidly jack pine with scattered oak and might require artificial regeneration when harvested if good scarification doesn't happen. A lot of moss in the subcanopy that can impede jack pine regeneration if not broken up. A strange opening along the main E-W road, perhaps an old dump for yard debris; hummocky with rotting stumps, household debris; trace elm, honeysuckle, bam, balsam fir, mullein, and cherry; boulders. Jack pine is starting to snag out, especially at the 10" dbh mark. White oak is superior across the site.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																	
5	3104 - Degraded	Nonstocked	2.4		Unspecified	No	Scramble area created by ORVs. Trace mullein. Clump of mature jack pine, pin cherry, and hybrid oak. Clump of planted red pine. Degraded non-forested opening. Jack pine present in pole/log/sap. Cherry (pin and black) present in sap/pole/log. X-oak present in sap/pole/log. Bigtooth present in sap/log.																	
								Sub-Canopy Species	Density	Avg. Height	Size													
								Jack Pine	Medium	>20 feet	Pole													
								Pin Cherry	Low	Variable	Sapling													
								Black Cherry	Trace	>20 feet	Log													
								Sweet Fern	Low	< 5 feet	Tall Shrub													
								Black/Red (Hybrid) Oak	Medium	Variable	Sapling													
								Red Pine	Trace	>20 feet	Log													
								Red Pine	Medium	Variable	Sapling													
								Bigtooth Aspen	Trace	Variable	Sapling													
								Balsam Poplar	Trace	5 - 10 feet	Sapling													
								Red Maple	Trace	Variable	Sapling													
								White Oak	Trace	Variable	Sapling													
								Little Bluestem	Trace	Unspecified	Non-Wood													
Spotted Knapweed	Low	Unspecified	Non-Wood																					
Honeysuckle (spp.)	Trace	5 - 10 feet	Tall Shrub																					
6	42111 - Planted Red Pine, Mixed Deciduous	Sapling Well	18.4	8	Immature	N/A	Stand was planted on 5/14/2013. This stand had been updated from a field evaluation for a project on free to grow red pine. FTP C52-350. Field inventory made minor adjustments to canopy data. Added full subcanopy report. Trace raspberry <5'; trace residual sapling/pole red pine >10'. Extreme northeast is understocked jack pine with oak and aspen. Far south is all jack pine, only 50% canopy coverage.																	
								Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size								
								Red Pine	60	Sapling	1	8	Red Maple	Low	< 5 feet	Sapling								
								Red Maple	10	Sapling	1		Pin Cherry	Low	Variable	Tall Shrub								
								Black Cherry	7	Sapling	2		Black/Red (Hybrid) Oak	Medium	Variable	Tall Shrub								
								Black/Red (Hybrid) Oak	10	Sapling	1		Wintergreen	Low	< 5 feet	Tall Shrub								
								Jack Pine	10	Sapling	1		White Oak	Trace	Variable	Sapling								
								Bigtooth Aspen	2	Sapling	1		Sweet Fern	Low	< 5 feet	Tall Shrub								
								White Oak	1	Sapling	1		Bracken Fern	Medium	Unspecified	Non-Wood								
													Common Lowbush Blueberry	Low	< 5 feet	Tall Shrub								
													Sedges	Full	Unspecified	Non-Wood								
								7	4131 - Aspen, Oak	Poletimber Well	79.4	51	81-110	N/A	Scattered jack pine snags (pole/log). Rare to find red pine, sweet fern, pin cherry, and balsam fir in the subcanopy. More jack pine in northwest. Regeneration decreases where vaccinium is very dense. Strip of pole red pine along west central edge of stand. Southwest is very heavy to aspen with a slight increase in white pine and scattered oak; slight increase in cherry. There's a pocket in the southwest of pole/log jack pine with full sedge (<1/4 acre). Far southwest tip is more of an O8 with scattered pine, bigtooth (and illegal ORV trails). More jack pine in the southeast. There are a couple Xlog bigtooth in this area. Very few true northern red oak. Mostly pin or hybrid. Some areas fully stocked with oak saplings, few escaping browse height.									
																Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
																Red Maple	3	Pole/Sap/Log	7		Black/Red (Hybrid) Oak	Medium	Variable	Sapling
Black/Red (Hybrid) Oak	20	Log/XLog/Pole	14	76	White Oak	Low	Variable									Sapling								
Bigtooth Aspen	59	Pole/Log/Sap	8	51	Common Lowbush Blueberry	Medium	< 5 feet									Tall Shrub								
Jack Pine	5	Pole/Log	8		Bracken Fern	Low	Unspecified									Non-Wood								
White Pine	2	Log/Pole	10		White Pine	Low	Variable									Sapling								
Red Pine	1	Pole/Log	8		Wintergreen	Trace	< 5 feet									Tall Shrub								
White Oak	10	Log/Pole/XLog	14		Red Maple	Trace	Variable									Sapling								



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
8	4130 - Aspen	Sawtimber Well	18.6	64	81-110	N/A	Multistemmed red maple. Trace white pine in canopy. Rare balsam fir in subcanopy. Consistent jack pine snags scattered throughout the stand. A lot of regeneration in 5-10' range, also 10-20'. The oak take up more crown space than basal area might indicate. BAs range 40-150, steadily 80-110, averaging 93.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Oak		10	XLog/Log/Pole	18	89	Red Oak		Medium	Variable	Sapling
Bigtooth Aspen		73	Log/Pole	12	64	White Pine		Low	Variable	Sapling
Jack Pine		4	Log/Pole	10		Red Pine		Low	Variable	Sapling
White Oak		7	Log/Pole	14		Red Maple		High	Variable	Sapling
Red Maple		5	Pole/Log	8		White Oak		Low	Variable	Sapling
Red Pine		1	Log/XLog	16		Wintergreen		Low	< 5 feet	Tall Shrub
						Bracken Fern		Medium	Unspecified	Non-Wood
						White Pine		Low	>20 feet	Pole
						Red Pine		Trace	>20 feet	Pole
						Jack Pine		Trace	10 - 20 feet	Pole
						Common Lowbush Blueberry		Trace	< 5 feet	Tall Shrub
9	42111 - Planted Red Pine, Mixed Deciduous	Sapling Well	12.7	8	Immature	N/A	Planted 5/14/2013. This stand has been updated from a field evaluation for a project on free to grow red pine. FTP C52-350. Really good growth on red pine, 6-10'. Some concern over being free to grow, especially in the south half among deciduous competition. Heavy browsing pressure on deciduous species. Trace mullein present.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Pine		63	Sapling	1	8	Common Lowbush Blueberry		Low	< 5 feet	Tall Shrub
Red Maple		20	Sapling	1		Sweet Fern		Low	< 5 feet	Tall Shrub
Black Cherry		3	Sapling	1		Black/Red (Hybrid) Oak		Medium	Variable	Sapling
Black/Red (Hybrid) Oak		10	Sapling	1		White Oak		Low	5 - 10 feet	Sapling
Bigtooth Aspen		2	Sapling	1						
Jack Pine		1	Sapling	1						
10	4130 - Aspen	Sawtimber Well	51.8	65	81-110	N/A	Trace balsam fir in canopy. Jack pine snagging out over 8" dbh. Old railroad grade through stand with legacy red pine along a portion of the grade. Basal areas 60, 140, 90, 110, 100, 70, 60.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Oak		10	Log/XLog/Pole	16		Red Maple		High	Variable	Sapling
White Oak		3	Log/XLog	14		Red Oak		Medium	Variable	Sapling
Bigtooth Aspen		75	Log/Pole	10	65	White Oak		Trace	Variable	Sapling
Red Pine		1	Log/XLog/Pole	14		Wintergreen		Medium	< 5 feet	Tall Shrub
Jack Pine		2	Log/Pole	12		Common Lowbush Blueberry		Low	< 5 feet	Tall Shrub
Red Maple		5	Log/Pole	10		Bracken Fern		Low	Unspecified	Non-Wood
Quaking Aspen		2	Log/Pole	10		Red Pine		Trace	< 5 feet	Sapling
White Pine		2	Log/Pole/XLog	14		White Pine		Low	Variable	Sapling
						Black Cherry		Trace	Variable	Sapling
						Balsam Fir		Trace	< 5 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
11	4131 - Aspen, Oak	Sapling Well	49.1	27	1-50	N/A	Last timber sale was Back Yard Pulp (52-021-93), completed in 1994. Evenly distributed residual mature white oak, red oak, and red pine. Confines of MiFI make it difficult to accurately represent the stand through data alone: canopy is dominated by sapling/pole aspen and oak (S/P) with a "supercanopy" (residual) of hybrid oak (L/P), white oak (L/P/X), white pine, red pine, and trace balsam fir. Residual trees occupy around 8% of total canopy. Areas of aspen regen coming fully into pole class. Higher density of jack pine in the south. (Rare red pine saplings in subcanopy.) BA overall is between 10-30 with aspen coming into pole class + residual mature trees.			
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size	
Red Oak	3	Pole/Sapling	6		White Oak	Medium		Variable	Sapling	
White Oak	5	Log/XLog	14	86	Black/Red (Hybrid) Oak	Medium		Variable	Sapling	
Bigtooth Aspen	53	Sapling/Pole	4	27	Sweet Fern	Trace		< 5 feet	Tall Shrub	
Red Pine	1	Log/Pole	12		Common Lowbush Blueberry	Medium		< 5 feet	Tall Shrub	
Jack Pine	2	Sapling/Pole	4		Wintergreen	Low		< 5 feet	Tall Shrub	
Black/Red (Hybrid) Oak	10	Sapling	4		Bracken Fern	Low		Unspecified	Non-Wood	
Red Maple	3	Sapling	3		Jack Pine	Trace		Variable	Sapling	
White Oak	20	Sapling	3		Pin Cherry	Trace		< 5 feet	Sapling	
White Pine	1	Log/Pole	14		White Pine	Trace		Variable	Sapling	
Black/Red (Hybrid) Oak	2	Log	10		Red Maple	Low		Variable	Sapling	
12	4310 - Pine, Oak Mix	Sapling Well	24.1	17	Immature	N/A		This stand originally contained the A3 (stand 40) to the north, but the jack pine has failed to recruit beneath the dense aspen resulting in two separate stands. Trace red maple in canopy. One red pine volunteer. Very few scattered residual red and white pine (pole/log). More consistent jack pine stocking in north. Dense aspen clone along south edge in the west; band of aspen in central portion of stand (north to south). More oak in the south half. Harvested in 2004 as PU2 of Compartment 151 Jack Pine, 52-122-03.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density			Avg. Height	Size
Black/Red (Hybrid) Oak	25	Sapling	1	17	Black/Red (Hybrid) Oak	High			Variable	Sapling
White Oak	2	Sapling	1	17	White Oak	Low	Variable		Sapling	
Bigtooth Aspen	17	Sapling	2	17	Sweet Fern	Trace	< 5 feet		Tall Shrub	
Jack Pine	55	Sapling	2	17	Common Lowbush Blueberry	Trace	< 5 feet		Tall Shrub	
Pin Cherry	1	Sapling	1		Red Maple	Trace	< 5 feet		Sapling	
					Bracken Fern	Trace	Unspecified		Non-Wood	
					Bearberry	Trace	< 5 feet		Tall Shrub	
					Wintergreen	Trace	< 5 feet		Tall Shrub	
13	42110 - Planted Red Pine	Poletimber Well	9.7	61	81-110	N/A	One acre inclusion towards the north on the east side of the road (JP 6" PLS; trace XO 14" LX, WO 14" L). Poor quality oak. Trace bigtooth aspen and red maple in the northwest. Bluestem along road. Rare occurrence of red maple in subcanopy. 3-0 RP planted in 1961.			
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size	
Black/Red (Hybrid) Oak	4	Log/Pole/XLog	12		Black/Red (Hybrid) Oak	Medium		Variable	Sapling	
Red Pine	75	Pole/Log/Sap	8	61	Jack Pine	Trace		< 5 feet	Sapling	
Jack Pine	20	Pole/Log/Sap	6		Red Pine	Trace		Variable	Sapling	
White Oak	1	Log/Pole	14		Common Lowbush Blueberry	Low		< 5 feet	Tall Shrub	
					Sweet Fern	Low		< 5 feet	Tall Shrub	
					White Pine	Trace		Variable	Sapling	
					Bracken Fern	Low		Unspecified	Non-Wood	
					Black Cherry	Trace		10 - 20 feet	Sapling	
					White Oak	Trace	< 5 feet	Sapling		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																																					
14	42220 - Natural Jack Pine	Poletimber Well	3.8	63	51-80	N/A	Lesser quality oak. Decline and some mortality in the jack pine. BAs 70, 40, 70. A couple pockets more densely stocked in the southern half. Two white oak and one red pine in the canopy. Rare occurrence of bearberry and pin cherry in the subcanopy.																																																																																					
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15	42121 - Planted Jack Pine, Mixed Deciduous	Sapling Well	66.3	17	Immature	N/A	Trace red maple and white oak in the canopy. Jack pine is already producing cones. Ground flora is a little patchy between blueberry, sedge, and bracken, but hybrid oak is fairly consistent throughout. Rare occurrence of red maple and white pine in the subcanopy. Bluestem associated with reindeer moss; sedge and moss present. Increase in deciduous competition in the north third of the stand associated with lower density/survival of jack pine. Also an increase in white oak in the north, about 1% canopy occupancy. (Stand becomes 47% jp, 30% xo, 20% bta, 2% pc, 1% wo.) Harvested in 2004 as PU3 of Compartment 151 Jack Pine, 52-122-03.																																																																																					
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16	4126 - White, Black, N. Pin Oak	Sapling Medium	99.8	5	Immature	N/A	White oak regen exists as sapling; "supercanopy" white oak exists as log/xlog/pole/sap. Rare balsam fir, white pine, red pine in canopy. Rare white pine, red pine, pin cherry in subcanopy. Expect >75% canopy closure in the next cycle. Couple small aspen clones, mostly confined to the west. Jack pine is likely to increase in prominence over the next inventory cycle. Browsing on deciduous regen. Sedge high-fully stocked; blue cladonia and reindeer moss present. Cut in 2016, PUs 1&2 of Schmelting Oak (52-121-13).																																																																																					
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
17	4199 - Other Mixed Upland Deciduous	Sawtimber Well	133.6	96	51-80	N/A	Came across two log-sized hemlock within the stand. Very unusual.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		3	Pole/Sap/Log	8		White Pine	Medium	Variable	Sapling
Red Oak		28	Log/Pole/XLog	14		Red Oak	High	Variable	Sapling
White Oak		20	Log/Pole/XLog	12		Red Maple	Low	Variable	Sapling
Bigtooth Aspen		31	Log/Pole/XLog	14	96	Common Lowbush Blueberry	Medium	< 5 feet	Tall Shrub
White Pine		5	Log/Pole	10		White Oak	Low	Variable	Sapling
Red Pine		5	Log/Pole/XLog	12		Red Pine	Trace	Variable	Sapling
Jack Pine		3	Log/Pole	10		Bracken Fern	Low	Unspecified	Non-Wood
Northern Pin Oak		5	Log/XLog/Pole	14		Balsam Fir	Low	Variable	Sapling
						Sweet Fern	Low	< 5 feet	Tall Shrub
						Huckleberry	Low	< 5 feet	Tall Shrub
18	42120 - Planted Jack Pine	Sapling Well	61.4	25	Immature	N/A	Trace amounts of white oak, red pine, and white pine in the canopy. Rare occurrence of bearberry, red pine, and balsam fir in the subcanopy. Wintergreen, moss, lichen present. Sapling main canopy with supercanopy (residual) red pine, white oak, white pine, hybrid oak. Jack pine stocking slightly declines in southwest associated with increase in cherry; less subcanopy, more moss, lichen, graminoids. Areas has the feel of barrens; larger diameters on the jack pine. Harvested 1995, Red Ant Jack Pine (52-049-93). Planted in June of 1996 @ 1225 tpa, FTP C51-0439.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black/Red (Hybrid) Oak		5	Sapling	3		Bracken Fern	Low	Unspecified	Non-Wood
White Oak		1	Log/Pole	12		Black/Red (Hybrid) Oak	Medium	Variable	Sapling
Bigtooth Aspen		3	Sapling	2	27	Sweet Fern	Low	< 5 feet	Tall Shrub
Jack Pine		88	Sapling/Pole	3	25	Common Lowbush Blueberry	Medium	< 5 feet	Tall Shrub
Black/Red (Hybrid) Oak		2	XLog/Log	18		Pin Cherry	Trace	Variable	Sapling
Red Maple		1	Sapling	2		White Oak	Low	Variable	Sapling
						White Pine	Trace	Variable	Sapling
19	4131 - Aspen, Oak	Sawtimber Well	68.8	96	111-140	N/A	Trace red, white, and jack pine in canopy (generally pole/log), <2% combined, but increases in density in the canopy in the east third of the stand, approx. 2% total canopy occupancy. Scattered jack pine and aspen snags, trace oak snags. Trace Xlog red pine along road. One hemlock (pole) on the north side of the old pit; one hemlock in north along road, one in east. Relic red pine and increased jack pine along the southwest edge. Rare occurrences of beech, jack pine, juniper, cherry, white spruce, and witch hazel in subcanopy. Some true northern red oak mixed with pin and/or hybrids. Nice quality pole oak and pine mingling with canopy, still in the subcanopy. White pine saplings have medium to high stocking in pockets scattered throughout the stand, but otherwise the density is on the high side of low.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		5	Pole/Log	8		Wintergreen	Medium	< 5 feet	Tall Shrub
Red Oak		40	Log/Pole/XLog	14		Pipsissewa	Low	< 5 feet	Tall Shrub
White Oak		14	Log/Pole/XLog	10		Red Oak	Medium	Variable	Sapling
Bigtooth Aspen		40	Log/XLog	14	96	White Oak	Low	Variable	Sapling
White Pine		1	Log/XLog/Pole	14		White Oak	Low	>20 feet	Pole
						Common Lowbush Blueberry	Medium	< 5 feet	Tall Shrub
						White Pine	Low	Variable	Sapling
						Balsam Fir	Low	Variable	Sapling
						Red Maple	Medium	Variable	Sapling
						Red Pine	Trace	Variable	Sapling
						Red Pine	Trace	>20 feet	Pole
						White Pine	Low	>20 feet	Pole
						Huckleberry	Low	< 5 feet	Tall Shrub
						Hemlock	Trace	>20 feet	Log



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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20	42220 - Natural Jack Pine	Poletimber Well	66.9	63	51-80	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age
Northern Pin Oak	14	Log/Pole	10	
White Oak	1	Log/Pole	12	
Red Pine	10	Pole/Log/XLog	8	
Jack Pine	75	Pole/Log/Sap	8	63

Sub-Canopy Species	Density	Avg. Height	Size
Northern Pin Oak	High	Variable	Sapling
Red Pine	Trace	Variable	Sapling
Common Lowbush Blueberry	Low	< 5 feet	Tall Shrub
Bearberry	Low	< 5 feet	Tall Shrub
Bracken Fern	Low	Unspecified	Non-Wood
White Pine	Trace	Variable	Sapling
White Oak	Low	Variable	Sapling
Balsam Fir	Trace	>20 feet	Sapling
Wintergreen	Trace	< 5 feet	Tall Shrub

Pockets of plantation red pine surrounded by natural jack pine. Plantation red pine BAs are consistently 100-120. 10-20 BA of dead jack pine also consistent throughout the stand. Jack pine BAs range 20-70, average 40+/. Rare sweetfern, pin cherry, and trailing arbutus in subcanopy. One Xlog white and pin/hybrid oak each. A handful of Xlog red pine in the north, though there's hardly any other red pine in the northernmost acreage. This area has a much different feel to it. White oak is present in the subcanopy and the overstory stocking is much less dense, heavier to oak and smaller diameter jack pine. Variable density oak subcanopy ranging from medium to full stocking. Trace jack pine volunteers in subcanopy in disturbed areas. A small pocket of jack pine saplings just south of the main road through the stand.

21	4199 - Other Mixed Upland Deciduous	Sapling Poor	65.8	3	Immature	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age
Black/Red (Hybrid) Oak	50	Sapling	1	3
Pin Cherry	5	Sapling	1	
Bigtooth Aspen	35	Sapling	1	
White Oak	5	Sapling	1	
Black/Red (Hybrid) Oak	2	Log	14	65
White Oak	3	Log/XLog	14	

Sub-Canopy Species	Density	Avg. Height	Size
Black/Red (Hybrid) Oak	Medium	< 5 feet	Sapling
Jack Pine	Medium	< 5 feet	Sapling
Pin Cherry	Low	Variable	Sapling
Bracken Fern	Low	Unspecified	Non-Wood
Sweet Fern	Low	< 5 feet	Tall Shrub
Red Maple	Trace	< 5 feet	Tall Shrub
Common Lowbush Blueberry	Low	< 5 feet	Tall Shrub
Wintergreen	Trace	< 5 feet	Tall Shrub
Bearberry	Trace	< 5 feet	Tall Shrub

Final harvest complete August 2017, Chilly Goose Mix (52-115-13). Regeneration survey 9/23/20, 479 JP and 1200 oak TPA. Accepting natural regeneration and not planting. 25% forested (>3') during field inventory. A lot of barren ground yet. Aspen clones are doing well where present (northwest and along northern edge). Oak is heavily browsed with a few stems reaching breast height. Jack pine is somewhat consistent but sort of sparse, especially in the southern main portion of the stand. East leg is oak dominated. Bluestem and sedge are the prominent groundcover. Rare quaking aspen, red maple, red pine, and white pine regenerating. Rare red pine, jack pine, white pine, bigtooth aspen residual in the canopy, <2% combined. Northwest long term retention consists of 8" P/L jack pine with scattered red maple (log), bta (pole), and trace red and white pine. Subcanopy of oak, white pine, sweetfern, bracken, trace balsam fir. South long term retention consists of red pine (log/pole) and jack pine (log/pole) with trace bigtooth, oak, red maple, and white pine in the canopy. Subcanopy of red pine oak, white pine, and red maple. East long term retention is plantation red pine (log/pole) with jack pine and oak subcanopy, trace serviceberry.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
23	4131 - Aspen, Oak	Sapling Poor	130.9	1	Immature	N/A	Stand cut 6/2020. 52-121-13-01 Schmelting Oak. Residual trees exist as log/pole/Xlog. As a whole, oak is much more prevalent than aspen but is not above 3', where as the aspen is >3' and therefore has a higher presence in the canopy. Ground cover is 70/30 oak/aspen, but over 3' it's 60/40 aspen/oak. Trace quaking aspen, jack pine, white pine, black cherry, balsam fir saplings present. Heavy browse pressure. There's a good amount of slash present; scattered snags (jack pine, trace oak). A lack of jack pine during this first year after harvest; may be present as seedlings under sedge. Trace mullein in landing. Yard debris dumped along road. Inventory absorbed stand 22 into stand 23. There was a slight but insignificant increase in cherry and white oak saplings in stand 22; covertype and MO are the same. Witness trees present. Long-Term Retention pockets vary in composition but generally include log/pole jack pine, red pine, pin oak, white oak; trace white pine.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Bigtooth Aspen	50	Sapling	1	1	Bracken Fern	Low		Unspecified	Non-Wood
Northern Pin Oak	35	Sapling	1		Sweet Fern	Low		< 5 feet	Tall Shrub
White Oak	5	Sapling	1		Pin Cherry	Low		Variable	Sapling
Red Maple	2	Sapling	1		Northern Pin Oak	High		Variable	Sapling
White Oak	3	Log/XLog	14		White Oak	Medium		Variable	Sapling
Northern Pin Oak	1	Log	12		Sedges	Full		Unspecified	Non-Wood
White Pine	1	Log/Pole/XLog	16		Common Lowbush Blueberry	Medium		< 5 feet	Tall Shrub
Red Pine	2	Log/XLog	16	81	Wintergreen	Low		< 5 feet	Tall Shrub
Pin Cherry	1	Sapling	1		Red Maple	Low		< 5 feet	Sapling
					White Pine	Trace		< 5 feet	Sapling
					Bigtooth Aspen	Trace		Variable	Sapling
					Bearberry	Trace		< 5 feet	Tall Shrub
24	42120 - Planted Jack Pine	Sapling Well	129.0	25	Immature	N/A	XO is present in the sapling layer as sap/pole and in the supercanopy (residual) as log/pole/Xlog. Trace red pine (log/xlog/pole) present and clumpy in north central portion of stand. Red pine seedlings are not evenly distributed. North half of the stand is 90% jack pine with 5% oak, 2% red pine saps, 3% residual (white oak, X oak, red/white pine). South half has more oak in the sapling canopy (15% overall, 25% in the east bubble) and a trace presence of white pine. Slight increase in white oak saplings west of the road, otherwise rare. Indian Pipe in southeast near white pine. Harvested in 1993 as Stolen Oak Jack Pine, 52-051-93.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Black/Red (Hybrid) Oak	8	Sapling	4		Black/Red (Hybrid) Oak	High		Variable	Sapling
White Oak	2	Log/XLog	14		Common Lowbush Blueberry	Medium		< 5 feet	Tall Shrub
Red Pine	3	Sapling	2	24	Bearberry	Trace		< 5 feet	Tall Shrub
Jack Pine	85	Sapling	3	25	Red Pine	Trace		Variable	Sapling
White Pine	1	Log/Pole/XLog	12		Pin Cherry	Trace		5 - 10 feet	Sapling
Black/Red (Hybrid) Oak	1	Log/XLog	16		White Oak	Trace		5 - 10 feet	Sapling
					Bracken Fern	Low		Unspecified	Non-Wood
25	42121 - Planted Jack Pine, Mixed Deciduous	Poletimber Well	40.0	71	51-80	N/A	Rare occurrence of white oak, red pine, balsam fir, and pin cherry in subcanopy. Trace bigtooth aspen in canopy. Low end PVCd Kotar typing. Mixed plantation red pine amongst jack pine. Red pine is mostly confined to the westernmost island of this multi-part stand Bigtooth in south on edge of this far west portion; trace white pine and balsam fir associated with bigtooth in the subcanopy. Middle and eastern islands contain more oak, especially the north half of the middle island.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Black/Red (Hybrid) Oak	20	Log/Pole	10		Black/Red (Hybrid) Oak	High		Variable	Sapling
Jack Pine	77	Pole/Log/Sap	8	71	Jack Pine	Low		Variable	Sapling
Red Pine	3	Pole/Log	8	71	Bearberry	Trace		< 5 feet	Tall Shrub
					Bracken Fern	Low		Unspecified	Non-Wood
					Common Lowbush Blueberry	High		< 5 feet	Tall Shrub



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments					
26	3302 - Low Density Conifer Trees	Nonstocked	8.1		Unspecified	No	Nonforested opening needing maintenance to keep covertype. 35% forested at this time. Scattered jack pine snags. 50" rec trail through stand. Very sandy.					
								Sub-Canopy Species	Density	Avg. Height	Size	
								Jack Pine	High	>20 feet	Log	
								Red Pine	Low	>20 feet	Log	
								Bracken Fern	Trace	Unspecified	Non-Wood	
								Sweet Fern	Low	< 5 feet	Tall Shrub	
								Black Cherry	Trace	>20 feet	Pole	
								Black/Red (Hybrid) Oak	Low	Variable	Sapling	
								Jack Pine	Medium	Variable	Sapling	
								Black/Red (Hybrid) Oak	Trace	>20 feet	Log	
			Big Bluestem	Low	Unspecified	Non-Wood						
27	4125 - Black, N. Pin Oak	Sapling Poor	101.0	1	Immature	N/A	Oak present in sapling regen with residual log/pole. Rare occurrence of bigtooth and red pine in the canopy (sapling); rare red pine and white pine in the subcanopy. Heavily browsed, multi-stemmed stocking of sapling oak with jack pine regenerating, still in the subcanopy waiting to recruit. White pine in subcanopy is, unsurprisingly, confined to areas around residual log/pole white pine seed source. Scattered residual sapling oak and jack pine. North/northwest/west has much more residual advanced regeneration (oak dominated). Pin cherry will decrease in the canopy percentage as oak and pine recruit. Expecting 50-75% closure during the next inventory cycle. Overall ground cover is 65% oak, 30% jack pine, 5% residual leave trees and trace white pine, pin cherry.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Northern Pin Oak	89	Sapling	1	1
								Pin Cherry	5	Sapling	1	
								White Oak	1	Sapling	1	
								White Pine	2	Log/Pole/Sap	14	
								Jack Pine	1	Pole/Sap/Log	8	
								Northern Pin Oak	2	Log	10	
								Sub-Canopy Species	Density	Avg. Height	Size	
								Sweet Fern	Trace	< 5 feet	Tall Shrub	
Bracken Fern	Low	Unspecified	Non-Wood									
Sedges	Full	Unspecified	Non-Wood									
Common Lowbush Blueberry	Medium	< 5 feet	Tall Shrub									
Northern Pin Oak	Medium	Variable	Sapling									
Jack Pine	Medium	Variable	Sapling									
White Oak	Trace	< 5 feet	Sapling									
Bearberry	Medium	< 5 feet	Tall Shrub									
Pin Cherry	Trace	< 5 feet	Sapling									
28	42250 - Pine, Oak	Sapling Well	55.0	16	Immature	N/A	Trace pin cherry, white oak, white pine (residual pole/log), red pine (residual pole/log), and bigtooth in canopy; trace white pine, pin cherry, sweetfern, red pine, trailing arbutus in subcanopy. Areas of very heavily browsed oak regeneration, preventing any from recruiting into the canopy. More white oak subcanopy in the north. A dozen bigtooth stems in one spot in the east-northeast. Harvested in 2004 as PU4 of Compartment 151 Jack Pine, 52-122-03.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Northern Pin Oak	30	Sapling/Pole	2	16
								Jack Pine	70	Sapling	2	16
								Sub-Canopy Species	Density	Avg. Height	Size	
								Common Lowbush Blueberry	Medium	< 5 feet	Tall Shrub	
								Bracken Fern	Low	Unspecified	Non-Wood	
								Northern Pin Oak	Medium	Variable	Sapling	
								Wintergreen	Trace	< 5 feet	Tall Shrub	
								White Oak	Low	Variable	Sapling	
Bearberry	Low	< 5 feet	Tall Shrub									



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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29 122 - Road/Parking Lot Nonstocked 4.7 Unspecified No Indian River Field Office, out buildings, dumpster, parking lot.

Sub-Canopy Species	Density	Avg. Height	Size
Northern Pin Oak	Medium	>20 feet	Log
White Oak	Medium	>20 feet	Log
Red Pine	Low	>20 feet	Pole
White Pine	Trace	>20 feet	Pole
Red Maple	Trace	>20 feet	Log
Bigtooth Aspen	Trace	>20 feet	Pole
Northern Pin Oak	Low	Variable	Sapling
Wintergreen	Trace	< 5 feet	Tall Shrub
Pipsissewa	Trace	< 5 feet	Tall Shrub
Common Lowbush Blueberry	Low	< 5 feet	Tall Shrub
White Pine	Medium	Variable	Sapling
Autumn Olive	Medium	Variable	Tall Shrub
Barberry	Low	< 5 feet	Tall Shrub
Red Pine	Trace	Variable	Sapling
Red Maple	Low	Variable	Sapling
Serviceberry (Juneberry)	Low	Variable	Sapling
White Oak	Trace	Variable	Sapling
Bracken Fern	Low	Unspecified	Non-Wood
Juniper	Trace	< 5 feet	Tall Shrub
Black Cherry	Medium	Variable	Tall Shrub
Leafy Spurge	Low	Unspecified	Non-Wood

30 42120 - Planted Jack Pine Sapling Well 28.7 30 Immature N/A

Canopy Species	% Cover	Size Class	DBH	Age
Black/Red (Hybrid) Oak	7	Sapling/Pole	4	
White Oak	2	Pole/Sap/Log	6	
Red Pine	1	Log/Pole	12	
Jack Pine	89	Sapling/Pole	4	30
White Pine	1	Log/Pole/Sap	10	

Sub-Canopy Species	Density	Avg. Height	Size
Black/Red (Hybrid) Oak	Medium	Variable	Sapling
White Oak	Trace	5 - 10 feet	Sapling
Bearberry	Trace	< 5 feet	Tall Shrub
Common Lowbush Blueberry	Medium	< 5 feet	Tall Shrub
Black Cherry	Trace	5 - 10 feet	Sapling
Wintergreen	Trace	< 5 feet	Tall Shrub
Bracken Fern	Low	5 - 10 feet	Non-Wood
Trailing Arbutus	Trace	< 5 feet	Tall Shrub
White Pine	Trace	10 - 20 feet	Sapling

Red maple, white oak, bigtooth aspen, black cherry present in trace amounts in canopy. Scattered residual red pine, jack pine, white oak, white pine. Obvious distinction between regenerating cohort and what was left from the parent stand, but they're starting to mingle in the same size classes. Rare red pine and sweetfern in subcanopy. Harvested 1993: Outback Jack, 52-022-93.FTP C51-436 planted in June 1994 @ 907 tpa.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																																				
31	42220 - Natural Jack Pine	Poletimber Well	15.7	62	1-50	N/A	East half of this stand serves as long term retention for stand 27. Rare red pine, white pine in canopy (log/pole). Rare white oak, red pine, serviceberry in subcanopy. Rather poor quality oak.																																																																																				
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32	6119 - Mixed Lowland Deciduous Forest	Sawtimber Poor	17.1	95	1-50	N/A	Distinction between river's edge and the rest of the stand. Higher density, more diversity along streambank; further away is a formerly ash dominated floodplain, now occupied by somewhat clumpy and scattered basswood, elm, aspen, and birch. A lot of dead ash - mostly blown over, but a good amount of snags remain. Beaver activity in stand. Trace white ash and balsam fir in canopy. Trace alder and downy arrowwood (non-native) in subcanopy.																																																																																				
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33	3102 - Grass	Nonstocked	2.6		Unspecified		Power line Right of Way.																																																																																				
34	122 - Road/Parking Lot	Nonstocked	25.2		Unspecified		Snowmobile Trail/maintained non-motorized rail trail. Multiple size classes present, pole/sap/log. Maintained trail system with encroaching trees, shrubs, grasses. Variable upland and lowland ground adjacent to trail.																																																																																				
		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Willow spp.</td> <td>Medium</td> <td>Variable</td> <td>Tall Shrub</td> </tr> <tr> <td>Quaking Aspen</td> <td>Medium</td> <td>>20 feet</td> <td>Pole</td> </tr> <tr> <td>Balsam Poplar</td> <td>Trace</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>White Spruce</td> <td>Low</td> <td>>20 feet</td> <td>Pole</td> </tr> <tr> <td>Ninebark</td> <td>Low</td> <td>5 - 10 feet</td> <td>Tall Shrub</td> </tr> <tr> <td>Red Osier Dogwood</td> <td>Low</td> <td>< 5 feet</td> <td>Tall Shrub</td> </tr> <tr> <td>Cattail spp.</td> <td>Low</td> <td>Unspecified</td> <td>Non-Wood</td> </tr> <tr> <td>American Highbush Cranberry</td> <td>Trace</td> <td>5 - 10 feet</td> <td>Tall Shrub</td> </tr> <tr> <td>Black Ash</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Willow spp.	Medium	Variable	Tall Shrub	Quaking Aspen	Medium	>20 feet	Pole	Balsam Poplar	Trace	Variable	Sapling	White Spruce	Low	>20 feet	Pole	Ninebark	Low	5 - 10 feet	Tall Shrub	Red Osier Dogwood	Low	< 5 feet	Tall Shrub	Cattail spp.	Low	Unspecified	Non-Wood	American Highbush Cranberry	Trace	5 - 10 feet	Tall Shrub	Black Ash	Low	Variable	Sapling																																																
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
35	6112 - Lowland Aspen	Poletimber Well	11.6	92	1-50	N/A	Formerly dominated by black ash which has since been decimated by EAB, resulting in a lot of coarse woody debris, very difficult to walk through, with minimal canopy stocking and a high sapling ash understory. Maintained powerline corridor through portion of stand south of road.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
American Elm		5	Pole/Sap/Log	6		Balsam Fir		
Quaking Aspen		70	Pole/Sap/Log	8	92	Black Ash		
Balsam Poplar		5	Sapling/Pole	4		Red Osier Dogwood		
Balsam Fir		2	Sapling/Pole	4		Willow spp.		
White Spruce		10	Pole/Log	8		American Highbush Cranberry		
Northern White Cedar		8	Pole	8		White Spruce		
						Density		Avg. Height
								Size
36	42110 - Planted Red Pine	Poletimber Well	45.4	71	81-110	N/A	Stand boundaries redrawn to delineate areas of denser stocking (based on imagery). Originally part of stand 25. Trace white oak in the canopy, <1%. Rare jack pine, white pine, pin cherry, white oak in subcanopy. Kotar typing as PVCd. Stand is pole red pine with declining log jack pine. Red pine in subcanopy are overwhelmingly just suppressed individuals. Trailing arbutus rare in east. Planted May 1960. Open planted RP 7.5x7.5' @ 750 tpa from Chittenden Nursery.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Jack Pine		10	Pole/Log	8		Black/Red (Hybrid) Oak		
Black/Red (Hybrid) Oak		15	Log/Pole/XLog	12		Common Lowbush Blueberry		
Red Pine		75	Pole/Sap/Log	7	71	Red Pine		
						Density	Avg. Height	
							Size	
37	6220 - Alder/willow	Nonstocked	3.0	0	Unspecified	No		
						Sub-Canopy Species		Density
						Willow spp.		High
						Cattail spp.		Low
						Red Osier Dogwood		Medium
						Bulrush		Low
						Quaking Aspen		Low
						Ninebark		Trace
						Black Ash		Trace
						Balsam Poplar		Trace
						White Spruce	Trace	
						Avg. Height	Size	
38	4310 - Pine, Oak Mix	Sapling Well	3.2	17	Immature	N/A	Originally part of stand 12 which was planted to jack pine. This portion, while dominated by jack pine, is heavily stocked by oak and aspen as well. Harvested in 2004 as PU2 of Compartment 151 Jack Pine, 52-122-03.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Black/Red (Hybrid) Oak		29	Sapling	1	17	Common Lowbush Blueberry		
White Oak		2	Sapling	2	17	Black/Red (Hybrid) Oak		
Bigtooth Aspen		10	Sapling	2	17	Pin Cherry		
Jack Pine		55	Sapling	2	17	Red Maple		
Red Maple		2	Sapling	1		Bracken Fern		
Pin Cherry		2	Sapling	1				
						Density		Avg. Height
								Size



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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39	42260 - Natural Pine, Mixed Deciduous	Sapling Well	9.9	27	1-50	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age
Black/Red (Hybrid) Oak	15	Sapling	4	
White Oak	3	Sapling	3	
Bigtooth Aspen	15	Sapling/Pole	3	
Red Pine	5	Log/Pole/XLog	12	83
Jack Pine	54	Sapling/Pole	4	27
Red Maple	2	Sapling/Pole/Log	2	
White Oak	5	Log	10	
White Pine	1	Pole/Sap/Log	6	

Sub-Canopy Species	Density	Avg. Height	Size
Black/Red (Hybrid) Oak	Medium	Variable	Sapling
Red Maple	Trace	Variable	Sapling
Common Lowbush Blueberry	Medium	< 5 feet	Tall Shrub
Bracken Fern	Low	Unspecified	Non-Wood
Sweet Fern	Low	< 5 feet	Tall Shrub
Pin Cherry	Trace	10 - 20 feet	Sapling
Red Pine	Trace	5 - 10 feet	Sapling

Last timber sale was Back Yard Pulp completed in 1994. Small draw, becoming more prominent to the north. Jack pine regen dominates the stand, but the east half is more deciduous saplings overtopped by log/pole/xlog aspen, oak, and pine. Difficult to accurately represent stand in MiFI. Southeast has 25% residual canopy coverage; west half is jack pine with minimal overstory remaining. Pin and black cherry present in trace amounts. Trace red maple logs in canopy.

40	4130 - Aspen	Sapling Well	11.6	17	Immature	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age
Bigtooth Aspen	81	Sapling	3	17
Jack Pine	7	Sapling	2	17
Black/Red (Hybrid) Oak	5	Sapling	2	
Pin Cherry	2	Sapling	2	
Red Maple	5	Sapling	2	

Sub-Canopy Species	Density	Avg. Height	Size
Jack Pine	Low	5 - 10 feet	Sapling
Red Maple	Trace	Variable	Sapling
Pin Cherry	Low	Variable	Sapling
Black/Red (Hybrid) Oak	Medium	Variable	Sapling
Bearberry	Trace	< 5 feet	Tall Shrub
Common Lowbush Blueberry	Low	< 5 feet	Tall Shrub
Bracken Fern	High	Unspecified	Non-Wood
Wintergreen	Low	< 5 feet	Tall Shrub
White Oak	Trace	Variable	Sapling

Failed planted jack pine suppressed by aspen and oak, originally part of stand 12 to the south. Rare canopy white oak. Rare occurrences of white pine and sweetfern in subcanopy. Jack pine is 5-10' under bigtooth aspen, 10-20' where open grown. Harvested in 2004 as PU2 of Compartment 151 Jack Pine, 52-122-03.

41	122 - Road/Parking Lot	Nonstocked	1.5	0	Unspecified	No	County and forest roads.
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