



# Compartment Review Presentation

Gaylord Forest Management Unit

Compartment 52040

Entry Year 2023

Acreage: 2,353

County Charlevoix

Management Area: Chandler Hills

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**Revision Date:** 2021-04-14

**Stand Examiner:** Trevor Kubitskey

**Legal Description:**

T33N, R04W Sec. 19-21, & 28-30.

**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.

**Soil and topography:**

Most of this compartment falls within the wide flat valley of the Springbrook drainage and is vegetated with wetland coniferous associations. The uplands, which surround the wetlands are covered primarily with hardwoods. Upland terrain varies from rolling hills to steep areas; especially the west slope of Chandler Hills. The lowland areas are underlain with Tawas-Carbondale mucks. The upland areas are dominated by soils of the Kalkaska-Leelanau and Leelanau-Emmet associations. These associations are characterized as nonhydric soils with varying ratios of sand to loam in the surface horizons.

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

Majority of the private property is found adjacent to the compartment is in the west half and one larger private withholding in the southeast. The ownership is roughly 50% state ownership with the other 50% private. There has been little development within and surrounding the compartment

**Unique Natural Features:**

The compartment contains a very diverse range of habitats from large swamp complex's, to upland fir/aspen, to oak and hardwoods all within less than 1 square mile. The Springbrook (North and South Branch) and it's tributaries also flow through the compartment.

**Archeological, Historical, and Cultural Features:**

An old Cobbs and Mitchell Inc. logging era railroad grade cuts through the swamps in sections 19 and 20.

**Special Management Designations or Considerations:**

A Director's Order prohibits the use of motorized vehicles in Section 21 and the north half of Section 28.

**Watershed and Fisheries Considerations:**

This compartment is in the Bear River watershed and contains portions of the North Branch Spring Brook and the South Branch of Spring Brook. The Spring Brook system is a highly productive naturally reproducing brook trout stream with higher-than-normal growth rates, consistently producing large, older age fish. Shade, limiting sediment input and woody debris recruitment are all crucial to maintaining a high quality trout stream system such as Springbrook. Clearcuts directly adjacent to the mainstream corridors should be avoided. The appropriate BMP's will be applied when working in the proximity of surface water.

**Wildlife Habitat Considerations:**

The unique features of this compartment provide very good habitat for various wildlife species. From the thick cover of the swamp, into the upland aspen, oak and hardwood. Utilizing these cover types are white-tailed deer, turkeys, upland birds, black bears, various amphibians, and furbearers. A large component of Northern Red Oak is found in the eastern edges of the compartment, with higher densities in the southeast.

**Mineral Resource and Development Concerns and/or Restrictions**

A State-owned sand/gravel pit (Chandler Hill Road) is located just south of the compartment, in Section 33. It is not currently leased and status is unknown. There is good potential for additional sand & gravel on the upland areas within the compartment. The compartment borders the northernmost extent of current Antrim Shale gas production. There are Antrim wells within one mile, but most are shut in. There may be Antrim potential beneath the compartment, but the formation may be thin in this area, and at current gas prices, there is unlikely to be any new wells drilled in the area in the near future. One parcel in Sec 28 is currently leased for oil & gas development. There is no known potential for metallic minerals in this

part of the state.

**Vehicle Access:**

Access is good throughout the compartment. Most areas are accessible from county roads. Wheeled vehicles are prohibited in sections 21 and the north half of section 28 excluding the east/west road that connects Howard Rd and Harmon Rd (the designated snowmobile, ATV and MCCCT Trail).

**Survey Needs:**

A large majority of the survey work has been completed; however there will be some survey needs in Section 28 due to the proposed management activities.

**Recreational Facilities and Opportunities:**

The compartment provides many opportunities for outdoor recreation. The North Country Trail that traverses through the eastern areas of the compartment provide a good opportunity for hikers. The Tomahawk motocross trail and the Snowmobile trail provide year round trail riding opportunities. Hunters and trappers also use the compartment heavily. There is a trailhead parking lot just to south of the compartment.

**Fire Protection:**

Due to the cover types that dominate the compartment, wildfires may occur but large scale fire events are highly unlikely.

**Additional Compartment Information:**

None.

**The following reports from the Inventory are attached:**

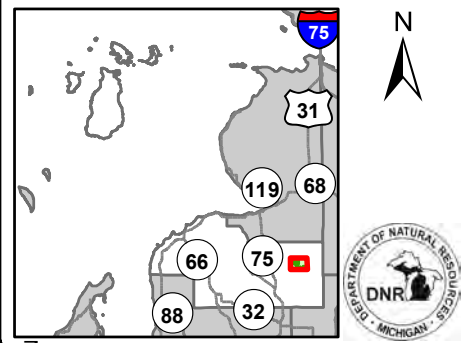
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

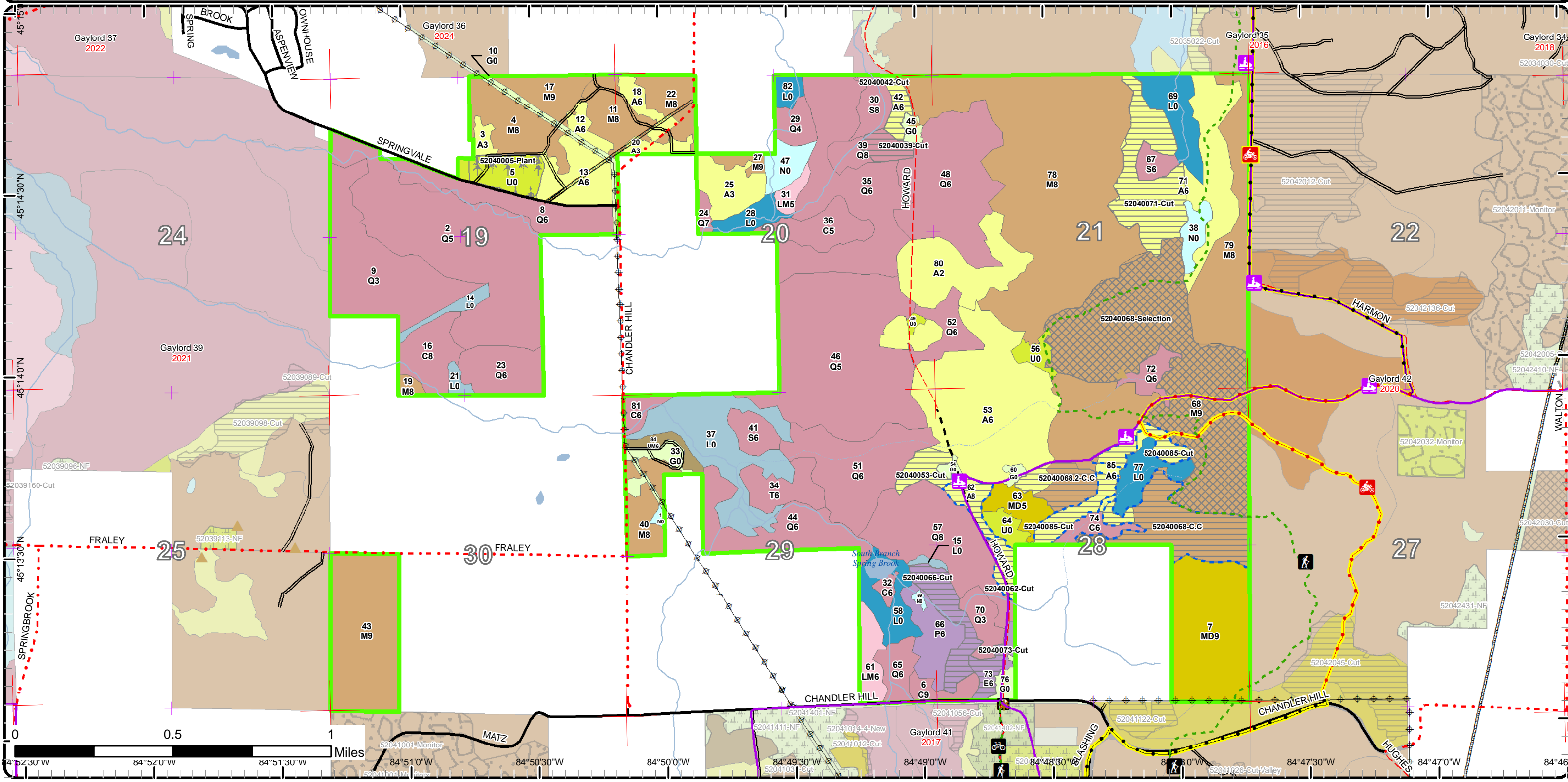
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

# Cover Type & Treatments Map

Compartment: 40  
 T33N, R04W, Sec. 19-21, 28-30  
 County: Charlevoix  
 Unit: Gaylord  
 Mgmt Area: Chandler Hills  
 YOE: 2023  
 Acres: 2353.4 GIS Calculated  
 Examiner: Trevor Kubitskey  
 Map Revised: 10/5/2021  
 Map Phase: Post-Review

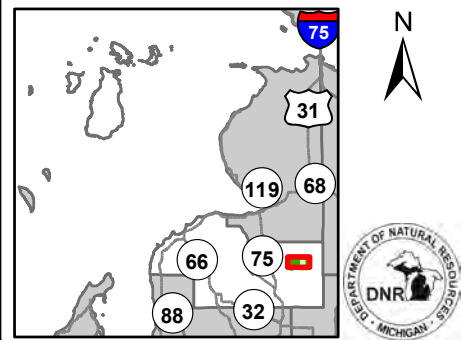


- Miris Corners
- + Remonumented Section Corners
- Counties
- DNR - Secondary Forest Road
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- MCCCT Trails
- Snowmobile Trails
- Designated Hiking Trails
- - Designated Bicycle Trails
- - Designated Ski Trails
- Designated Multi-Use Trails
- ORV License
- ORV License & Trail Permit
- Designated Snowmobile Trails
- Michigan Cross Country Cycle Trail (MCCCT)
- ▲ Berms
- P Parking Lot
- \* Trailhead
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Pipeline
- ⊕ Powerline
- Compartment Boundary
- Treatments with Site Conditions
- Selection (Group, Single Tree)
- Planting (tree species)
- Clearcut (w/Reserves)
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- 629 - Mixed Non-forested Wetland

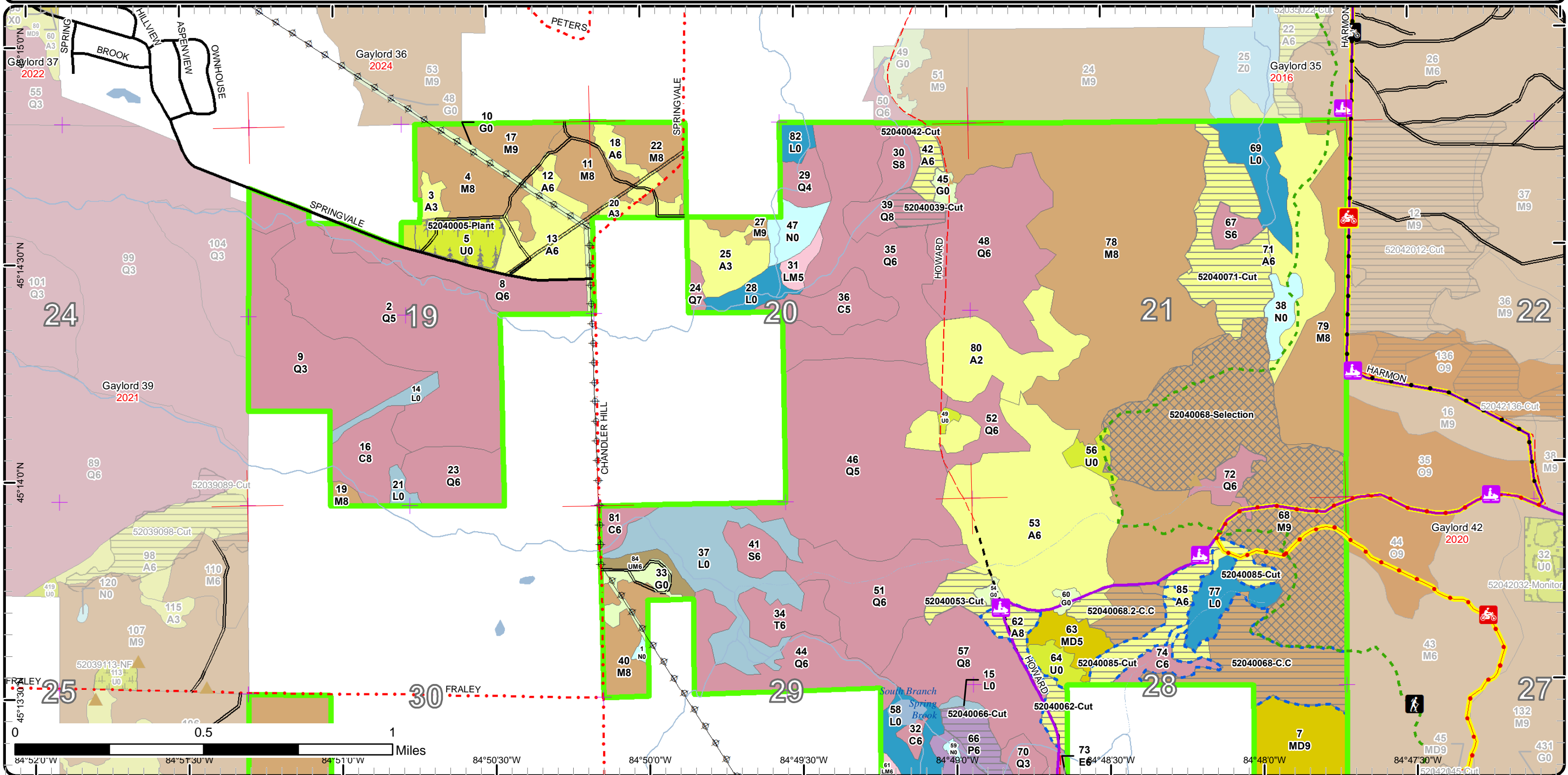


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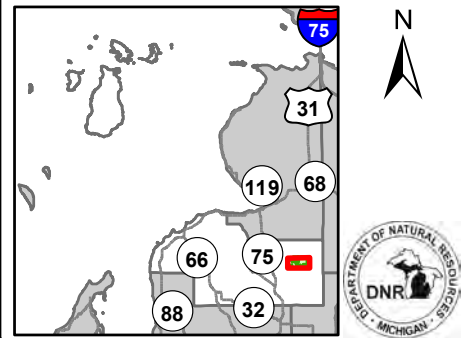


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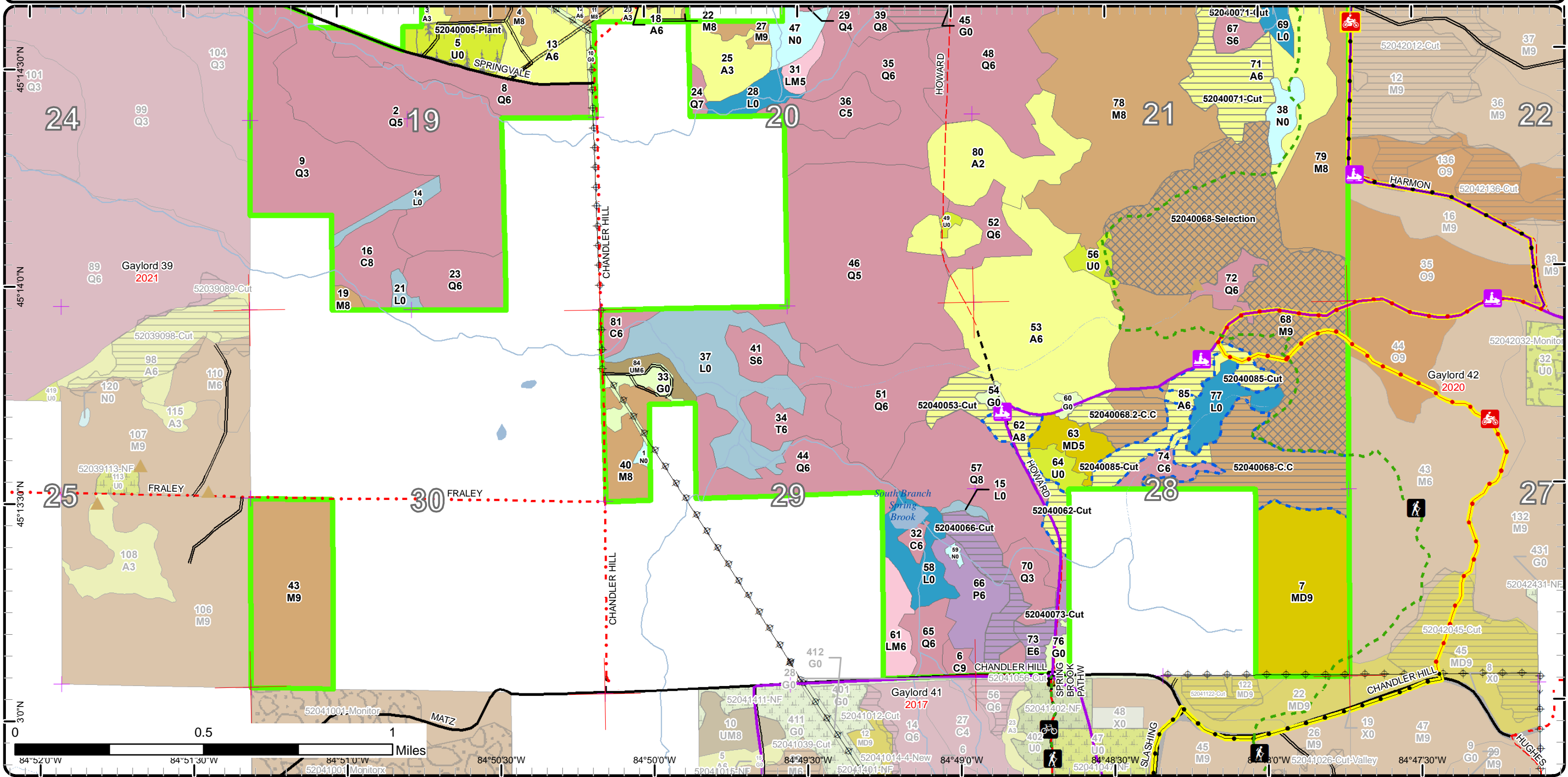


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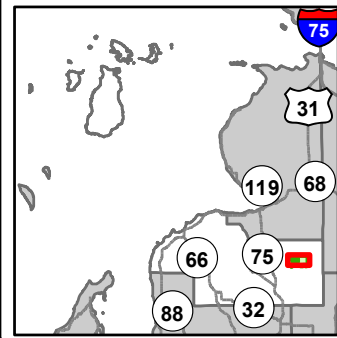


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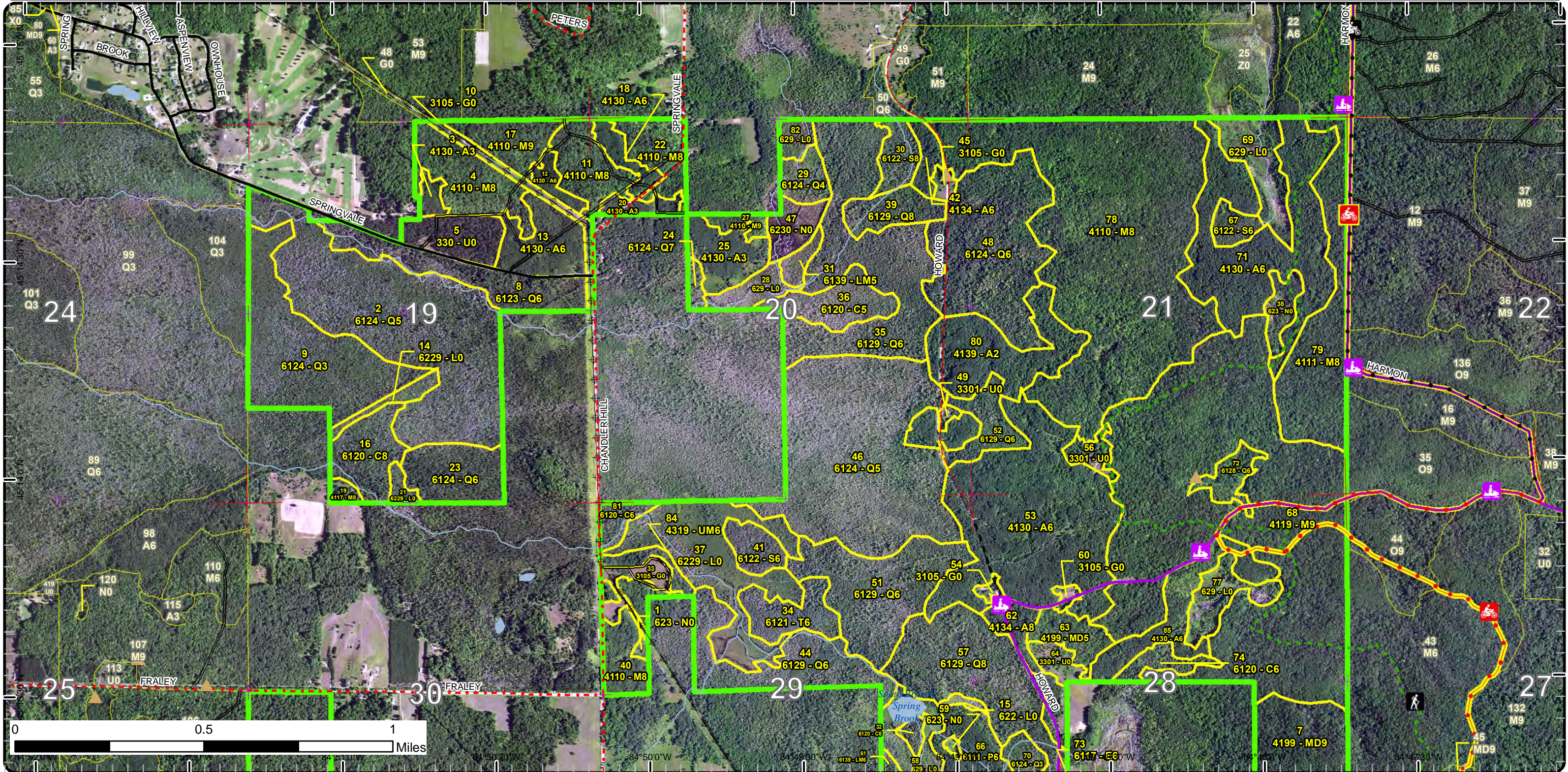


# Stand Boundary Map

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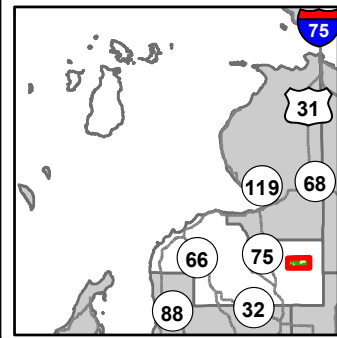


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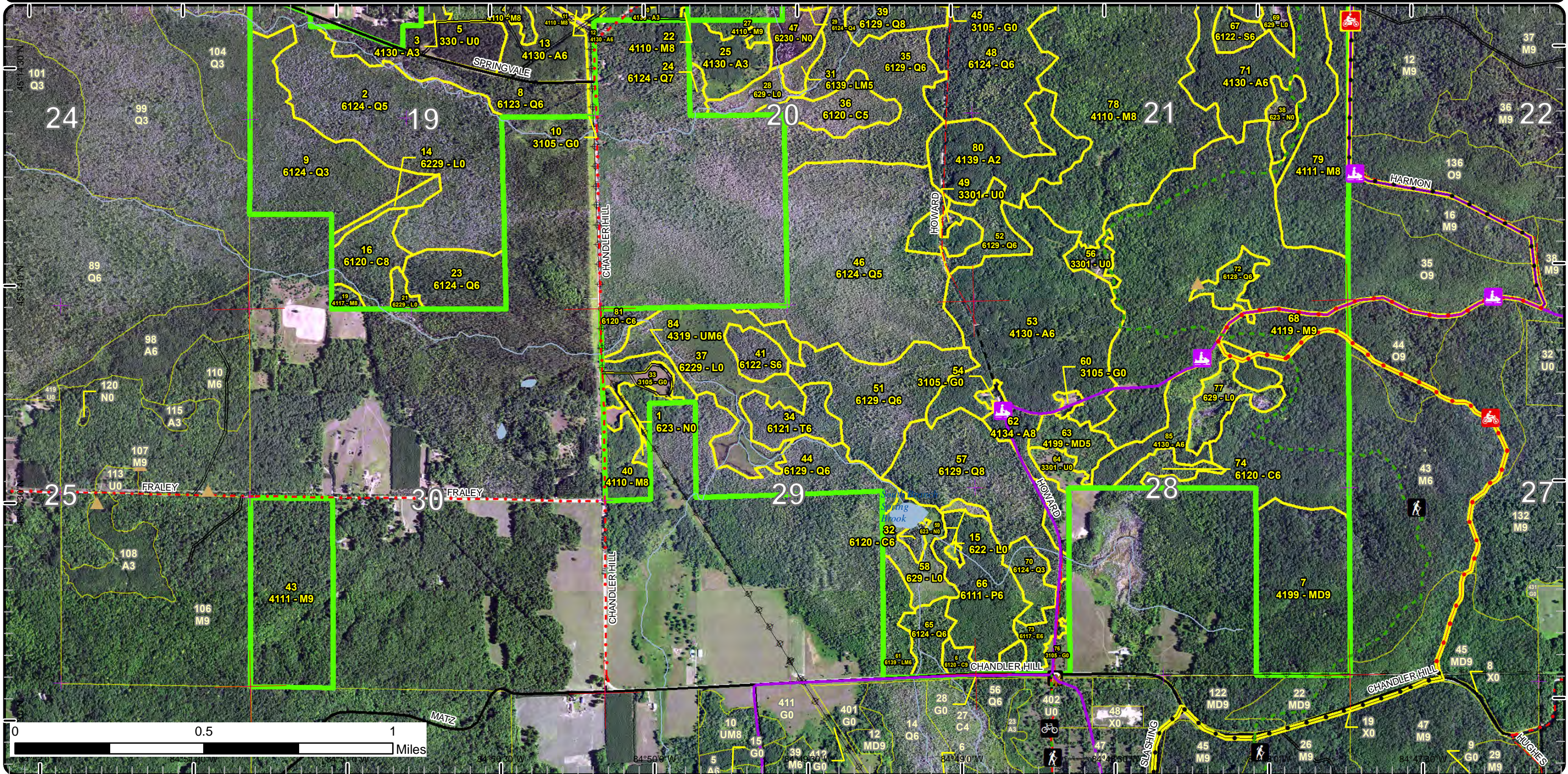
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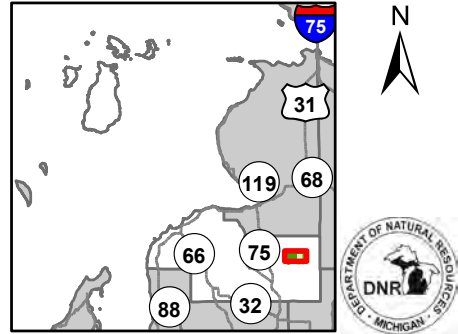
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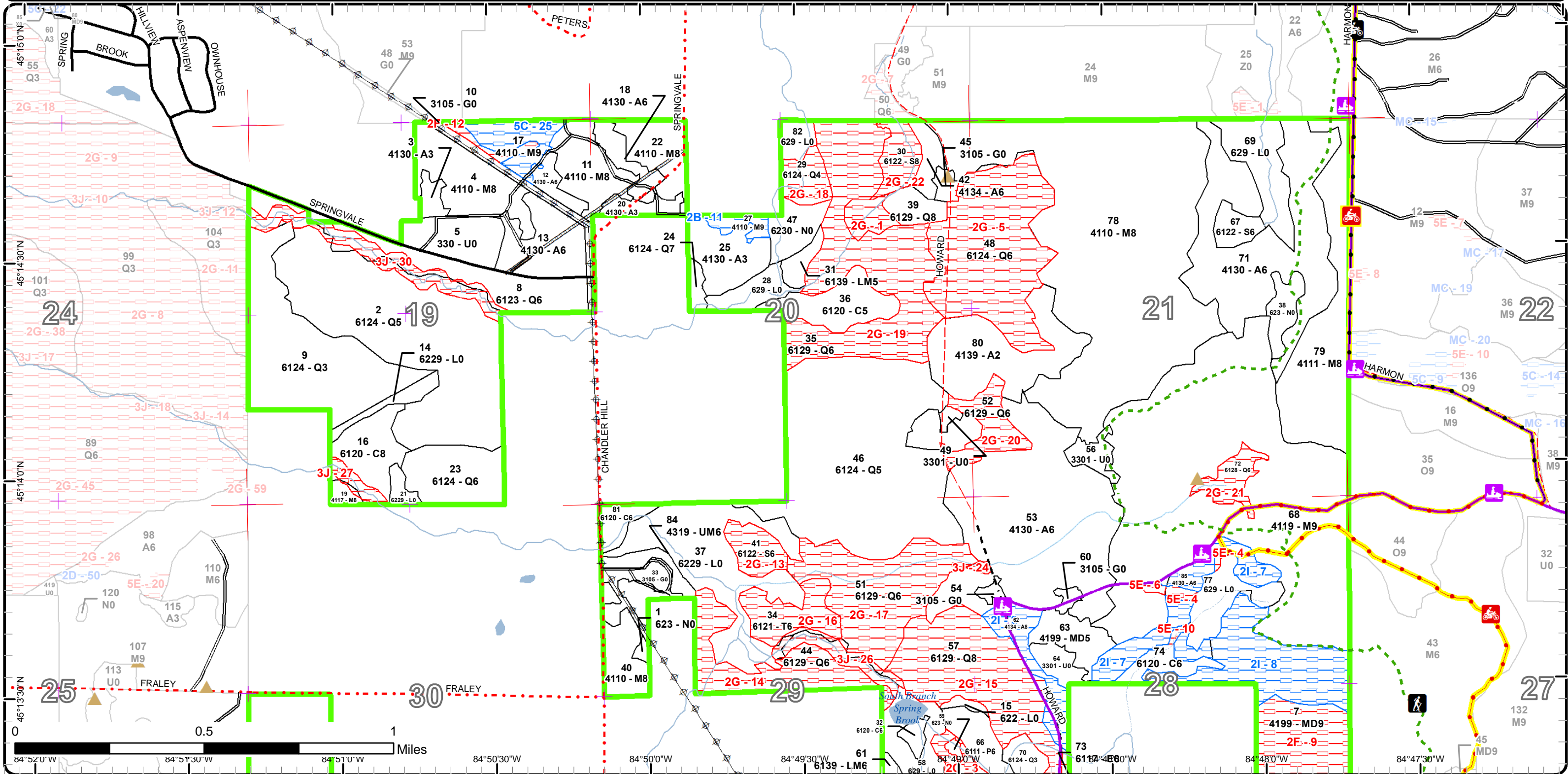


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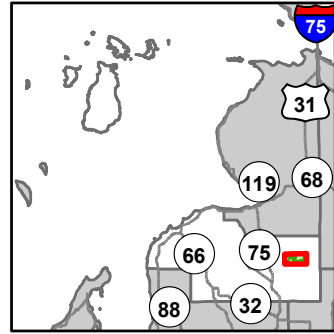
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- Compartment Boundary
- Available w/ Constraints
- 2I: Survey needed
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Unavailable
- 2F: Too steep
- 2G: Too wet (sensitive soils, does not include access issues)
- 3J: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



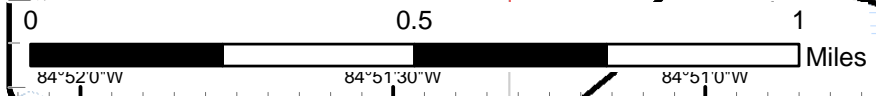
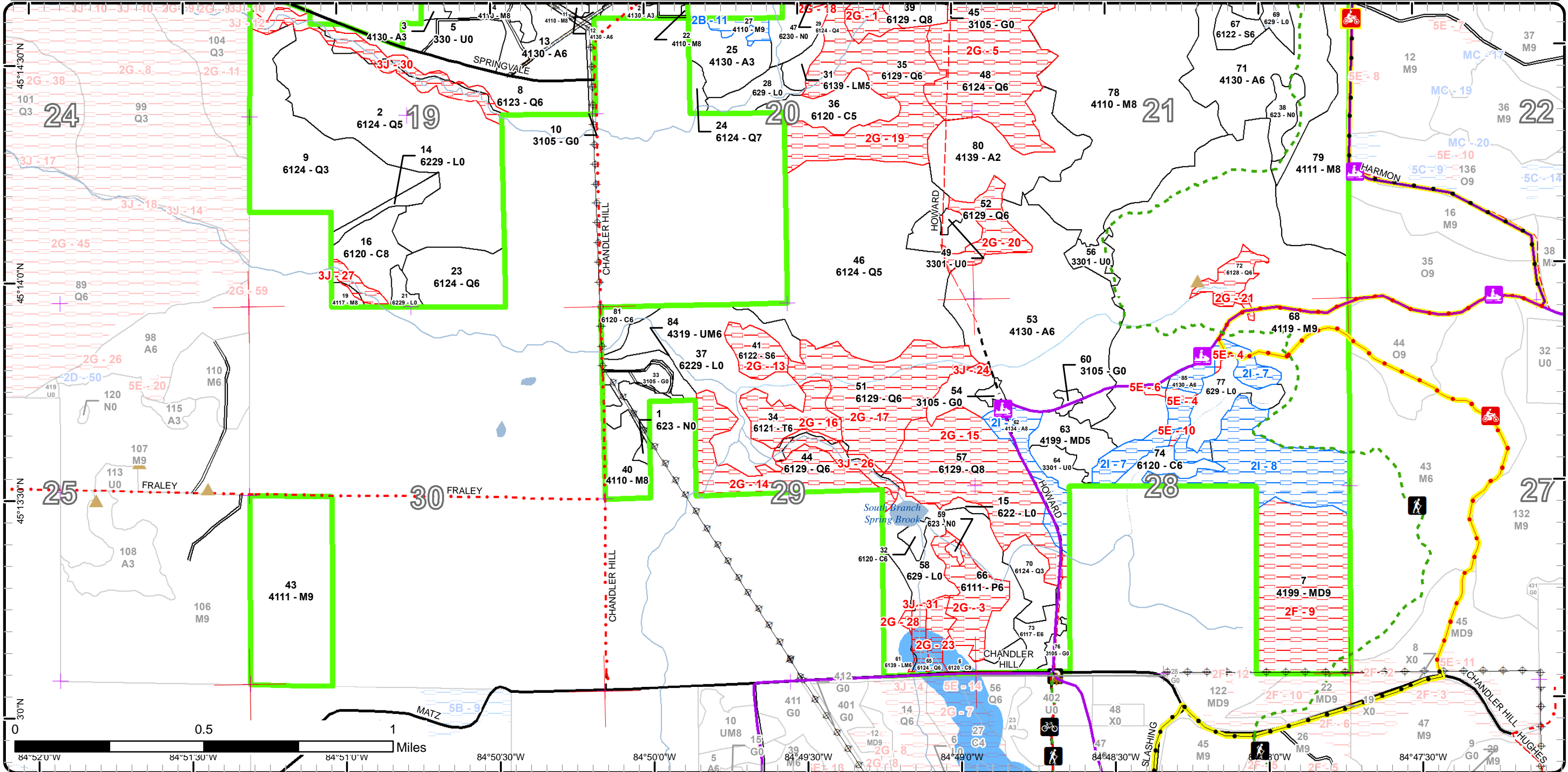


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- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention
- Stand Boundaries
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer



# Report 1 – Total Acres by Cover Type and Age Class

Gaylord Mgt. Unit

Compartment 40

Year of Entry 2023

Trevor Kubitskey : Examiner



## Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	52	29	0	155	113	7	0	15	0	0	0	0	0	0	0	0	0	371
Cedar	0	0	0	0	0	0	0	20	0	8	22	3	0	7	0	8	0	0	68
Herbaceous Openland	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31
Low-Density Trees	32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	32
Lowland Aspen/Balsam Poplar	0	0	0	0	0	39	0	0	0	0	0	0	0	0	0	0	0	0	39
Lowland Conifers	0	0	0	69	0	143	0	0	58	79	22	69	98	49	61	0	0	126	772
Lowland Deciduous	0	0	0	0	0	0	10	0	0	0	0	0	0	0	0	0	0	0	10
Lowland Mixed Forest	0	0	0	0	0	0	18	0	0	0	0	0	0	0	0	0	0	0	18
Lowland Shrub	140	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	140
Lowland Spruce/Fir	0	0	0	0	0	0	0	7	0	0	0	0	11	11	0	0	0	0	28
Marsh	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22
Mixed Upland Deciduous	0	0	0	0	0	0	0	13	0	0	71	0	0	0	0	0	0	0	84
Northern Hardwood	0	0	0	0	0	0	0	0	0	625	90	0	0	0	0	0	0	0	715
Tamarack	0	0	0	0	0	0	0	0	0	18	0	0	0	0	0	0	0	0	18
Upland Mixed Forest	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	6
<b>Total</b>	<b>225</b>	<b>52</b>	<b>29</b>	<b>69</b>	<b>155</b>	<b>295</b>	<b>41</b>	<b>40</b>	<b>73</b>	<b>730</b>	<b>205</b>	<b>72</b>	<b>109</b>	<b>67</b>	<b>61</b>	<b>8</b>	<b>0</b>	<b>126</b>	<b>2354</b>



## Report 2 – Treatment Summary

Gaylord Mgt. Unit

Year of Entry: 2023

Acres of Harvest

Compartment 40

Total Compartment Acres: 2,353

Commercial Harvest - 278  
 Harvests with Site Condition - 84  
 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	99	0	0	0	0	0	0	0	0	99
Lowland Aspen/Balsam Poplar	19	0	0	0	0	0	0	0	0	19
Lowland Conifers	8	0	0	0	0	0	0	0	0	8
Lowland Deciduous	7	0	0	0	0	0	0	0	0	7
Northern Hardwood	64	166	0	0	0	0	0	0	0	229
<b>Total</b>	<b>196</b>	<b>166</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>362</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	362	0	16	0	0	0	0	0	0	377
Next Step	0	16	0	0	0	393	212	0	0	621
<b>Total</b>	<b>362</b>	<b>16</b>	<b>16</b>	<b>0</b>	<b>0</b>	<b>393</b>	<b>212</b>	<b>0</b>	<b>0</b>	<b>998</b>



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	Habitat Cut
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**Approved Treatments:**

<b>5</b>	<b>52040005-Plant</b>	15.6	330 - Low-Density Trees	Nonstocked	0	Unspec ified	Planting	ERROR	42110 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u></p> <p><u>Specs:</u></p> <p><u>Next Step</u> SitePrep, Trenching; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Red Pine</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> 10/1 /2021</p>											
<b>39</b>	<b>52040039-Cut</b>	7.8	6129 - Mixed Coniferous Lowland Forest	Sawtimber Medium	110	141- 170	Harvest	Clearcut with Retention	613 - Lowland Mixed Forest	Even-Aged	No
<p><u>Prescription</u> Final harvest all trees 2" DBH and up. No retention due to small stand size. Mark birch or fir trees for Dead and Down creation for habitat and</p> <p><u>Specs:</u> potential nurse logs for cedar regeneration. Mark these at 2 per acre. Limit operations to frozen winters or dry summers.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Any combination of cedar, fir, spruce, or deciduous species not including black ash that meets minimum stocking criteria.</p> <p><u>Regen:</u></p> <p><u>Other</u> Evaluate for potential legacy trees during sale prep.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											
<b>42</b>	<b>52040042-Cut</b>	6.9	4134 - Aspen, Spruce/Fir	Poletimber Well	52	81-110	Harvest	Clearcut	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Final harvest 2" DBH and up. No retention due to small stand size. Run red line into stand 30 where possible to grab any additional</p> <p><u>Specs:</u> harvestable areas. Limit operations to frozen winters or dry summers.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Aspen with a minor component of mixed hardwood and conifers.</p> <p><u>Regen:</u></p> <p><u>Other</u> Evaluate for potential legacy trees during sale prep.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											



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Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
53	52040053-Cut	9.5	4130 - Aspen	Poletimber Well	37	81-110	Harvest	Clearcut	413 - Aspen	Even-Aged	No
<p><u>Prescription Specs:</u> Final harvest 2"DBH and up. No retention due to small stand size. This treatment area contains some lower portions, run red line accordingly and use soil protection specs. Do not cut hemlock. Fisheries recommendation for at least a 25-50 ft buffer along the creek in the northern part of the treatment.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Aspen, red maple, birch and mixed conifers that meet minimum stocking criteria.</p> <p><u>Other Comment:</u> This particular area of stand 53 was set up in 2012 but was not sold. There is old paint present. MNFI polygon in southern portion of treatment.</p> <p><u>Site Condition</u></p> <p>Proposed Start Date: 10/1 /2022</p>											
62	52040062-Cut	14.9	4134 - Aspen, Spruce/Fir	Sawtimber Medium	78	81-110	Harvest	Clearcut with Retention	4136 - Aspen, Mixed Conifer	Even-Aged	No
<p><u>Prescription Specs:</u> Final harvest all trees 2" DBH and up. Minimum retention which should be placed in any areas that may be too wet or contain advanced conifer regen. Do NOT cut white pine.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Aspen with a minor component of mixed conifers such as but not limited to spruce, fir, cedar, and pine.</p> <p><u>Other Comment:</u> Add snowmobile trail protection specs. MNFI polygon falls into treatment in the north.</p> <p><u>Site Condition</u> Survey Needed</p> <p>Proposed Start Date: 10/1 /2022</p>											
66	52040066-Cut	19.3	6111 - Lowland Balsam Poplar	Poletimber Well	40	111-140	Harvest	Clearcut with Retention	6112 - Lowland Aspen	Even-Aged	No
<p><u>Prescription Specs:</u> Final Harvest all trees 2" dbh and up. Standard retention. Place retention around advanced fir regen or around any pockets that may be too wet. West treatment edge is approximate so run red line accordingly to avoid wet spots or to try to grab more accessible timber.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Aspen with a component of birch, red maple, and mixed conifers that meet minimum stocking criteria. Aspen will be composed of a mix of quaking, bigtooth and balsam poplar depending on location within treatment.</p> <p><u>Other Comment:</u> Access is possible through stand 73. Crane mats and/or use of tops to create a base will be needed it some spots for access through 73. Northern part of treatment sits on an upland ridge. Evaluate for potential legacy trees during sale prep.</p> <p>*Note that under the streets basemap layer it shows a creek running through the stand. This is not accurate.*</p> <p><u>Site Condition</u></p> <p>Proposed Start Date: 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
<b>68 52040068.2-C.C</b>	17.1	4119 - Mixed Northern Hardwoods	Sawtimber Well	83	81-110	Harvest	Clearcut with Retention	4116 - Mixed N. Hardwood - Aspen	Even-Aged	No
<p><u>Prescription</u> Final harvest all trees 2" dbh and up. Retention has already been identified and placed around a small flowing creek.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Mix of Aspen and desirable northern hardwood species such as sugar/red maple, birch, cherry, basswood, and oak not dominated by beech and/or ironwood.</p> <p><u>Other Comment:</u> Include small portion of stand 53 into treatment areas to help expand aspen clone. Snowmobile trail is present so use appropriate trail protection specs.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										
<b>68 52040068-C.C</b>	46.5	4119 - Mixed Northern Hardwoods	Sawtimber Well	83	81-110	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	No
<p><u>Prescription</u> Final harvest all trees 2" dbh and up. 5-10% retention focused around large crowned healthy oaks and Sugar Maples. Whole tree skid for increased scarification. Oak wilt specs will apply. Protect any pre-merchantable sugar maple. Hilly in areas so run red line to accommodate equipment. Utilize slash and tops where possible during harvest to protect oak stumps from browse pressure post harvest.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory); Other,</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Mix of Aspen and desirable northern hardwood species such as sugar/red maple, birch, cherry, basswood, and oak not dominated by beech and/or ironwood.</p> <p><u>Other Comment:</u> Post harvest regeneration fencing is in next step treatments. Survey will be needed to establish property line. Road work will be needed to access treatment. Add hiking trail protection specifications.</p> <p><u>Site Condition</u> Survey Needed</p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										
<b>68 52040068-Selection</b>	165.5	4119 - Mixed Northern Hardwoods	Sawtimber Well	83	81-110	Harvest	Single Tree Selection	4119 - Mixed Northern Hardwoods	Two-Aged	No
<p><u>Prescription</u> Thin stand down to an average of 80 sq ft. Mark beech and oak where needed. May need to apply oak wilt specs. Expect some areas to be lightly marked. Establish regeneration gaps at a rate of 1 per 5 acres with a minimum size of 100 ft x 100 ft. Try to focus these gaps around overmature aspen, red maple, and/or basswood clumps. Consider placing gaps on ridgetops and southern facing slopes for greater sunlight. If oak are incorporated into regen gaps, consider using post harvest fencing to help protect regen.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Intermediate); Other,</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> A mix of desirable northern hardwood species NOT dominated by beech and/or ironwood.</p> <p><u>Other Comment:</u> Protect seeps and any hemlock inclusions. Some steep hills in the northwest and southeast. Run red line appropriately to accommodate equipment. Evaluate for Red Shoulder Hawk potential and add protection specs if applicable.</p> <p>Hiking Trail, ORV and snowmobile trail go through stand. Apply trail protection specifications to sale.</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
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<b>71</b>	<b>52040071-Cut</b>	44.7	4130 - Aspen	Poletimber Well	44	111-140	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
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Prescription Specs: Final harvest all trees 2" DBH and up. 3-5% retention. Do not cut hemlock. If possible, incorporate retention around oaks or other incidental species. Add drumming log specs into sale.

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

Acceptable Regen: Aspen with a mix of desirable hardwood species that meet minimum stocking requirements.

Other Comment: Hauling may impact nearby hiking trail. Work with rec specialist to consider re-routing hiking trail if necessary. May have to forward wood through stand 78 to the west. Evaluate for legacy tree potential during sale prep.

Site Condition

Proposed Start Date: 10/1 /2022

<b>73</b>	<b>52040073-Cut</b>	7.0	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	56	81-110	Harvest	Clearcut	611 - Lowland Deciduous Forest	Even-Aged	No
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Prescription Specs: Final harvest 2" dbh and up. No retention. Do not cut white pine and mark to leave clumps of 5-10 mixed conifers for seed source and water retention at a rate of 1 per acre (7 clumps).

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

Acceptable Regen: A mix of aspen, red maple, birch with a component of fir, spruce and cedar.

Other Comment: Utilize slash to increase surface area on areas that are soft. Limit harvest to dry summer or frozen winter. Evaluate for legacy tree potential during sale prep.

Snowmobile trail is adjacent to stand, Use proper snowmobile protection specifications during harvest.

Site Condition

Proposed Start Date: 10/1 /2022

<b>85</b>	<b>52040085-Cut</b>	22.6	4130 - Aspen	Poletimber Well	47	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
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Prescription Specs: Final harvest trees 2" dbh and up. Retention has already been identified. Add drumming log specs into sale. Do not cut Red Oak.

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

Acceptable Regen: Aspen with a component of mixed hardwood.

Other Comment: Use appropriate recreation trail protection specs during harvest. Some lower ground areas near lowland stands so run red line to accommodate equipment.

Site Condition Survey Needed

Proposed Start Date: 10/1 /2022

**Total Treatment Acreage Proposed: 377.4**

## Report 4 – Site Conditions

Gaylord Mgt. Unit

Trevor Kubitskey : Examiner

Compartment: 40

Year of Entry: 2023

### Availability for Management

Total Acres	Acres Available	Acres Avail With Condition		Acres Not Available	Dominant Site Conditions							
					2B	2I	5C	2F	2G	3J	5E	
371	327	<b>40</b>		4	Aspen		<b>40</b>			0	1	3
68	64	<b>0</b>		4	Cedar						4	
31	31	<b>0</b>		0	Herbaceous Openland							
32	32	<b>0</b>		0	Low-Density Trees							
39	19	<b>0</b>		20	Lowland Aspen/Balsam Poplar					20		
759	389	<b>0</b>		371	Lowland Conifers					352	19	
10	10	<b>0</b>		0	Lowland Deciduous							
18	18	<b>0</b>		0	Lowland Mixed Forest						0	
140	139	<b>0</b>		1	Lowland Shrub						1	
28	7	<b>0</b>		21	Lowland Spruce/Fir					21		
22	22	<b>0</b>		0	Marsh							
83	13	<b>0</b>		71	Mixed Upland Deciduous				71			
715	648	<b>62</b>		5	Northern Hardwood	<b>5</b>	<b>44</b>	<b>14</b>	3		0	1
18	0	<b>0</b>		18	Tamarack					17	1	
6	6	<b>0</b>		0	Upland Mixed Forest							
2,340	1,724	<b>102</b>		514	Total Forested Acres	<b>5</b>	<b>84</b>	<b>14</b>	74	410	26	4
	74%	<b>4%</b>		22%	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	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	7	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
2	Available	<b>2I: Survey needed</b>	15	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							



## Report 4 – Site Conditions

Gaylord Mgt. Unit

Trevor Kubitskey : Examiner

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Year of Entry: 2023

3	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	20	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
4	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	3	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
5	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	74	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
6	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	1	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
7	<b>Available</b>	<b>2I: Survey needed</b>	23	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
8	<b>Available</b>	<b>2I: Survey needed</b>	47	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Gaylord Mgt. Unit  
Trevor Kubitskey : Examiner

Compartment: 40  
Year of Entry: 2023

9	Unavailable	2F: Too steep	71	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
10	Unavailable	5E: Long-Term Retention	1	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
11	Available	2B: Unknown if access through adjacent landowner(s) is possible	5	2I: Survey needed	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
12	Unavailable	2F: Too steep	3	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
13	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	11	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
14	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	33	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Gaylord Mgt. Unit  
Trevor Kubitskey : Examiner

Compartment: 40  
Year of Entry: 2023

15	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	61	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
16	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	17	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
17	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	53	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
18	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	10	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
<b>Comments:</b> North Branch Spring Brook flows through stand.							
19	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	83	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Gaylord Mgt. Unit

Trevor Kubitskey : Examiner

Compartment: 40

Year of Entry: 2023

20	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	15	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
21	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	9	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Small stream flows through stand. Flows into the South Branch Spring Brook.							
22	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	11	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
23	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	7	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
24	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
25	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	14	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Gaylord Mgt. Unit

Compartment: 40

Trevor Kubitskey : Examiner

Year of Entry: 2023

26	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	10	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> South Branch Spring Brook							
27	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	4	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> South Branch Spring Brook							
28	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
30	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	20	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> North Branch Spring Brook							
31	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> South Branch Spring Brook							

Mgt. Unit

Compartment: #Type!

Year of Entry:



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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments

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**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.
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																																						
1	623 - Emergent Wetland	Nonstocked	1.2	0	Unspecified	No	Small drainage for a seep coming out stand 40. Appears wet but no visible standing water. Water most likely continues to drain into the conifer swamp to the east.																																						
				<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>Sedges</td> <td>High</td> <td>Unspecified</td> <td>Non-Wood</td> </tr> <tr> <td>Cattail spp.</td> <td>Low</td> <td>Unspecified</td> <td>Non-Wood</td> </tr> <tr> <td>Northern White Cedar</td> <td>Low</td> <td>&gt;20 feet</td> <td>Pole</td> </tr> <tr> <td>Balsam Fir</td> <td>Medium</td> <td>&gt;20 feet</td> <td>Pole</td> </tr> <tr> <td>Black Ash</td> <td>Low</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Sedges	High	Unspecified	Non-Wood	Cattail spp.	Low	Unspecified	Non-Wood	Northern White Cedar	Low	>20 feet	Pole	Balsam Fir	Medium	>20 feet	Pole	Black Ash	Low	5 - 10 feet	Sapling																
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2	6124 - Lowland Spruce-Fir	Poletimber Medium	126.3	35	51-80	N/A	Large and variable stand. Northern edge contains the North Branch Spring Brook. Most areas appear to have had blowdown events with scattered overstory pockets of spruce, cedar and white pine with thickets of balsam, tag and black ash in the understory. Cedar seems to be falling out with die back occurring. An old Cobb and Mitchell R.R grade cuts through in the eastern portion with most of the cedar regen on the grade. Larger canopy gaps seem to contain more tag and black ash. Appears to contain a lot of wildlife.																																						
				<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>Balsam Fir</td> <td>High</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> <tr> <td>Tag Alder</td> <td>Medium</td> <td>5 - 10 feet</td> <td>Tall Shrub</td> </tr> <tr> <td>Black Spruce</td> <td>Medium</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> <tr> <td>Black Ash</td> <td>Medium</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> <tr> <td>Northern White Cedar</td> <td>Low</td> <td>&lt; 5 feet</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Balsam Fir	High	5 - 10 feet	Sapling	Tag Alder	Medium	5 - 10 feet	Tall Shrub	Black Spruce	Medium	5 - 10 feet	Sapling	Black Ash	Medium	5 - 10 feet	Sapling	Northern White Cedar	Low	< 5 feet	Sapling																
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3	4130 - Aspen	Sapling Well	4.1	14	1-50	N/A	Harvested in 2007. Scattered oak and elm above aspen.																																						
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4	4110 - Sugar Maple Association	Sawtimber Medium	28.8	87	81-110	N/A	Stand thinned winter 2019/2020. No Regeneration gaps were put into the sale. Overall stand looks good. Some steeper slopes in the north and west portions. Some nicer larger maple poles present in areas, along with scattered oak.																																						
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5	330 - Low-Density Trees	Nonstocked	17.8	0	Unspecified	4211 - Planted Red Pine	Harvested in winter of 2019, there are a few scattered, pole sized oak left throughout. Herbicide work completed 07/14/21.																																						





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
6	6120 - Lowland Cedar	Sawtimber Well	8.0	147	141-170	N/A	Stagnant sub-canopy. Very nice looking cedar stand with an upland portion on the east side containing most of the deciduous species. Aspen falling out.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Balsam Fir		10	Pole/Log	9		Black Ash		
Black Spruce		10	Log/Pole	11		Low		
Northern White Cedar		50	Log/Pole	10	147	Variable		
Quaking Aspen		10	Log	12		Sapling		
Red Maple		10	Pole	7		Low		
Paper Birch		10	Pole/Log	8		5 - 10 feet		
						Sapling		
7	4199 - Other Mixed Upland Deciduous	Sawtimber Well	70.6	90	81-110	N/A	Broken out of large hardwood stand (68) due to change in composition/canopy cover. This transitions into a fairly consistent oak canopy with scattered sugar maples, basswood clumps and beech. Most ash that was standing is now fallen over along with a few remaining standing beech. Very hilly. Majority of ridges and hills west/southwest facing slopes. Hemlock inclusions in valleys. Some portions have a nice sub-canopy of sugar maple stems. Small bowl within two ridges in central part of stand contains a significant amount of blowdown.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Sugar Maple		15	Pole/Log/Sap	8		White Ash		
Red Maple		2	Pole/Log	9		Medium		
Basswood		20	Log/Pole	12		Low		
Beech		8	Log/Pole	14		10 - 20 feet		
Red Oak		50	Log/XLog	16	90	Sapling		
Hemlock		5	Log	12		Medium		
						5 - 10 feet		
						Sapling		
8	6123 - Lowland Fir	Poletimber Well	33.5	70	81-110	N/A	Treated in 74 taking out cedar cabin logs and cedar posts. Odd stand with small upland portions contains nice oak and white pine. Central portion heavy to tamarack. Some scattered large diameter white and red pine. Aspen falling out. Old grade going through far east.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Balsam Fir		53	Pole/Log	9	70	Tag Alder		
Northern White Cedar		10	Log/Pole	11	120	Low		
Quaking Aspen		5	Log	12		5 - 10 feet		
Red Maple		10	Pole/Log	9		Tall Shrub		
Hemlock		2	Log/XLog	16		Balsam Fir		
Red Oak		2	Log/XLog	15		Medium		
Tamarack		15	Log	10		10 - 20 feet		
Red Pine		1	XLog	26		Sapling		
White Pine		2	XLog/Log	18		Low		
						5 - 10 feet		
						Sapling		
9	6124 - Lowland Spruce-Fir	Sapling Well	68.8	25	51-80	N/A	Scattered areas of blowdown throughout. Appears to have rising water table with the increased presence of alder within the canopy gaps. THICK Balsam Fir saplings throughout. Standing cedar seems ok, but signs of mortality in the remaining white pine. SE portions along the old railroad grade contain better cedar regen along the grade with larger pockets of blowdown.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Red Maple		5	Sapling/Pole	3		Tag Alder		
Paper Birch		5	Pole/Sapling	6		Low		
Balsam Fir		45	Sapling/Pole	2	25	5 - 10 feet		
Black Spruce		10	Log/Pole	12		Tall Shrub		
Northern White Cedar		15	Pole/Log	10	136	Balsam Fir		
Black Ash		15	Sapling/Pole	3		Medium		
White Pine		5	Log	13		Variable		
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10	3105 - Mixed Upland Herbaceous	Nonstocked	9.2		Unspecified	No	Powerline ROW. Hilly.																																										
11	4110 - Sugar Maple Association	Sawtimber Medium	20.7	82	81-110	N/A	Thinned winter 2019/2020. Residuals look good. Areas of smaller logs/poles. Some hills in central portions. No regeneration gaps were put in during harvest.																																										
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12	4130 - Aspen	Poletimber Well	5.9	38	51-80	N/A	Similar to other clones with intermixed oak and maples. Some pockets of logs but overall stand is pole sized.																																										
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13	4130 - Aspen	Poletimber Well	23.5	38	81-110	N/A	Portions are reaching large pole size class with others still true poles. Scattered fir inclusions within along with scattered oaks. Fair amount of sugar maple coming up with the aspen. Some blown down along west side of stand. underground utility line intersects stand.																																										
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14	6229 - Mixed lowland shrub	Nonstocked	5.8	0	Unspecified	No	Old Cobbs and Mitchell Lumber railroad grade runs along the northern part of the stand. Very wet. Majority of stand is thick alder with intermixed ash with occasional standing cedar, spruce and fir. Definitely "lower ground" compared to adjacent stands. Standing water is present so it may be some sort of drainage between the north and south branches of the spring brook.																																										
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15	622 - Lowland Shrub	Nonstocked	1.8	0	Unspecified	No	River/Creek corridor that contains a tributary flowing into the South Branch. Appears to have been forested at one time. Lots of standing dead in the east portion.																																										
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<b>16</b>	6120 - Lowland Cedar	Sawtimber Medium	21.8	91	141-170	N/A	Canopy density increasing moving towards the South Branch of Spring Brook in the south. Less sub-canopy development and more of a river corridor type appearance with over topping cedar and mixed conifers. Northern portions of stand are very thick of black ash with increased mortality in canopy species. Some larger white pine are declining. Wet. More deciduous species present in the very southern portion of stand across the Spring Brook.																																																				
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<b>17</b>	4110 - Sugar Maple Association	Sawtimber Well	16.9	82	111-140	N/A	Overall good quality. Heavier Oak component moving to the west. Steep south facing slopes along the southern edge. This stand was merged with stand 11 but was untreated.  Should have been treated with adjacent stands.																																																				
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<b>19</b>	4117 - Mixed N. Hardwood - Pine	Sawtimber Medium	2.9	85	51-80	N/A	Most trees are open grown and larger diameters. Pockets of thick conifer regen.																																																				
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<b>20</b>	4130 - Aspen	Sapling Well	6.1	14	1-50	N/A	Harvested 2007. Good, thick aspen regen with scattered maple, fir and oak.																																																				
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments									
21	6229 - Mixed lowland shrub	Nonstocked	3.5	0	Unspecified	No	Edges have the appearance of a mixed lowland sapling stand with interior portions more open with tag alder and black ash. Very wet. Scattered overstory of black spruce, white pine, cedar and fir. Most deciduous species in canopy have declined.									
								Sub-Canopy Species	Density	Avg. Height	Size					
								Black Ash	High	5 - 10 feet	Sapling					
								Tag Alder	High	5 - 10 feet	Tall Shrub					
								Balsam Fir	Medium	10 - 20 feet	Sapling					
								Black Spruce	Medium	>20 feet	Pole					
								Paper Birch	Low	5 - 10 feet	Sapling					
White Pine	Trace	>20 feet	Log													
22	4110 - Sugar Maple Association	Sawtimber Medium	17.9	86	81-110	N/A	Stand thinned winter 2019/2020. Pockets of larger poles, overall small logs. Some uncut areas due to topography. Steeper slopes east of Springvale Rd.									
								Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
								Sugar Maple	50	Log/Pole	10	86	Beech	Low	< 5 feet	Sapling
								Basswood	35	Log/Pole	12		Hemlock	Trace	>20 feet	Pole
								Beech	10	Log	14		White Ash	Low	< 5 feet	Seeding
								American Elm	5	Log/Pole	13					
23	6124 - Lowland Spruce-Fir	Poletimber Well	24.9	75	51-80	N/A	Appears to have been dominated by balsam poplar. Canopy gaps are being created by windthrow and declining aspen. Most gaps contain black ash, and some cattails with scattered fir and spruce throughout. Wetter moving towards the west.									
								Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
								Balsam Poplar	25	Pole/Log	9	75	Black Ash	Medium	Variable	Sapling
								Balsam Fir	25	Pole/Log	8	75	Black Spruce	Low	< 5 feet	Sapling
								Northern White Cedar	15	Pole	8	136	Balsam Fir	Medium	Variable	Sapling
								Black Ash	5	Pole	6		Balsam Poplar	Low	5 - 10 feet	Sapling
								Black Spruce	25	Pole/Log	9					
White Pine	5	Log	12													
24	6124 - Lowland Spruce-Fir	Sawtimber Poor	3.5	80	51-80	N/A	Flowing water in southern corner, beaver activity appeared to have changed hydrology and most aspen and red maple have fallen out of stand. Very nice young cohort of mixed fir and spruce coming up underneath. Blowdown present. Most cedar in canopy are stunted with yellowing needles and have dieback of crowns. Could be coded as a Q7 or Q3.									
								Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
								Black Spruce	45	Log	11	80	Black Spruce	High	Variable	Sapling
								Quaking Aspen	5	Pole	8		Balsam Fir	Medium	5 - 10 feet	Sapling
								White Pine	10	Log/Pole	10		White Pine	Low	5 - 10 feet	Sapling
								Hemlock	10	Log/Pole	12		Paper Birch	Trace	5 - 10 feet	Sapling
								Balsam Fir	10	Pole	8		Black Ash	Low	< 5 feet	Sapling
Northern White Cedar	20	Pole	6													



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
<b>25</b>	4130 - Aspen	Sapling Well	19.0	14	1-50	N/A	Upland aspen with inclusions in the southwest portions. Old Cobbs and Mitchell Railroad grade runs through stand. Appears to have had a heavier conifer component to the south with less aspen and more spruce, pine, and fir mixed with cherry brush. Northern edge of stand a southern facing slope.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Bigtooth Aspen		40	Sapling/Pole	3	14	Balsam Fir		
Quaking Aspen		40	Sapling/Pole	3	14	Black Spruce		
White Pine		1	Log/XLog	16		White Pine		
Sugar Maple		5	Pole/Sap/Log	6		Black Cherry		
Balsam Fir		4	Pole	6		Paper Birch		
Black Spruce		4	Pole	6		Yellow Birch		
Hemlock		1	Log/Pole	12				
Black Cherry		5	Sapling/Pole	3				
<b>27</b>	4110 - Sugar Maple Association	Sawtimber Well	4.7	83	111-140	N/A	Pockets of large diameters intermixed with areas of true pole maples. Majority of stand is in a valley/north facing slope with a ridge on the southern edge. Fair quality, with canker present in maples. The small amount of beech there is doing ok.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Sugar Maple		70	Log/Pole/XLog	12	83	Sugar Maple		
Basswood		25	Log	15		Sugar Maple		
American Elm		2	Log	13		Ironwood		
Beech		3	Log	12				
<b>28</b>	629 - Mixed non-forested wetland	Nonstocked	9.7		Unspecified	No	Heavy beaver activity. Very high mortality within stand of what appears to have been mostly lowland hardwoods. Scattered live trees interior towards the east portion. Wet.	
<b>Sub-Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>				
Cattail spp.		Medium	Unspecified	Non-Wood				
Tag Alder		Medium	5 - 10 feet	Tall Shrub				
Paper Birch		Low	>20 feet	Pole				
Balsam Fir		Low	>20 feet	Pole				
<b>29</b>	6124 - Lowland Spruce-Fir	Poletimber Poor	9.8	92	1-50	N/A	LOTS of blowdown. Most deciduous species have declined. Wet. North Branch of the Spring Brook flows through stand. Beaver activity present.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Balsam Fir		33	Pole/Sapling	6		Tag Alder		
Black Spruce		33	Pole/Sapling	7		Cattail spp.		
Northern White Cedar		34	Pole/Sapling	6	92	Balsam Fir		
						Northern White Cedar		
						Paper Birch		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>30</b>	6122 - Black Spruce	Sawtimber Medium	10.7	120	81-110	N/A	Stand appears to have been treated removing most deciduous species or there was a blowdown even resulting in canopy gaps and heavy sprouting of aspen, red maple and ash. Thick pockets of balsam fir regen. Cedar regen is present and doesn't appear to be browsed. Wet and difficult traversing.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Balsam Fir		10	Pole	7		Quaking Aspen		Low	10 - 20 feet	Sapling	
Black Spruce		50	Pole/Log	9	120	Black Ash		Medium	5 - 10 feet	Sapling	
Northern White Cedar		10	Log/Pole	10		Balsam Fir		High	5 - 10 feet	Sapling	
Tamarack		10	Pole	8		Black Spruce		Low	Variable	Sapling	
Balsam Poplar		5	Log	13		Red Maple		Low	10 - 20 feet	Sapling	
Red Maple		5	Pole/Log	8		Northern White Cedar		Low	< 5 feet	Sapling	
White Pine		5	XLog/Log	18							
Paper Birch		5	Pole	7							

<b>31</b>	6139 - Mixed Lowland Forest	Poletimber Medium	5.0	50	1-50	N/A	Stand appears to have regenerated back from a blowdown event. Scattered pole/log cedars, fir and spruce with a heavy presence of deciduous saplings. Tag alder is very dense in areas. Thick. Old R.R grade is present on the west edge.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Balsam Fir		32	Pole/Sap/Log	5	50	Black Spruce		Medium	5 - 10 feet	Sapling	
Black Spruce		3	Pole	8		Tag Alder		High	5 - 10 feet	Tall Shrub	
Red Maple		15	Sapling/Pole	3	25	Balsam Fir		High	Variable	Sapling	
Tamarack		5	Pole	7		White Pine		Low	< 5 feet	Sapling	
Black Ash		25	Sapling	3							
Northern White Cedar		5	Log	10							
Paper Birch		15	Sapling	2							

<b>32</b>	6120 - Lowland Cedar	Poletimber Well	3.1	107	81-110	N/A	Isolated conifer stand.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Balsam Fir		25	Pole	7		Tag Alder		Low	5 - 10 feet	Tall Shrub	
Black Spruce		25	Pole	8		Balsam Fir		Medium	Variable	Sapling	
Northern White Cedar		50	Pole	9	107	Black Spruce		Low	5 - 10 feet	Sapling	

<b>33</b>	3105 - Mixed Upland Herbaceous	Nonstocked	9.4		Unspecified	No	Opening contains powerline ROW. Scattered bushy, open growing pine with scattered cherry brush. Areas of this stand used to be planted to corn by wildlife (90's).
Sub-Canopy Species		Density	Avg. Height	Size			
White Pine		Low	10 - 20 feet	Sapling			
Black Spruce		Low	5 - 10 feet	Sapling			
Scotch Pine		Trace	10 - 20 feet	Sapling			
Black Cherry		Low	5 - 10 feet	Sapling			
Honeysuckle (spp.)		Low	5 - 10 feet	Tall Shrub			



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<b>34</b>	6121 - Tamarack	Poletimber Well	18.0	82	81-110	N/A	Nice grove of Tamarack. Diameters seem to decrease moving to the south and composition changes to more fir and spruce. Small creeks flow through stand into the South Branch of the Spring Brook.																																																															
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<b>35</b>	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	82.5	117	111-140	N/A	Overall pole sized stand. Southern strip and central areas near old road contain the smaller diameters and greater mixed regen. Southern strip appears to be turning into stand 46 to the south which is a sapling dominated stand. The rest of the stand is fairly consistent containing mixed cedar and spruce with occasional firs, white pine, and tamarack. Most balsam firs appear to be declining. Multiple streams, creeks flow throughout stand eventually dumping into the North Branch of the Spring Brook. Old Cobbs and Mitchell Railroad grade moves along the west edge. Most of the sub-canopy development are within canopy gaps.																																																															
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<b>36</b>	6120 - Lowland Cedar	Poletimber Medium	20.0	60	1-50	N/A	Wet. Most cedar within this stand is 1-5 " DBH, 10-20 ' tall. Fairly easy walking. Increased diameters moving west as density in white pine and black spruce increase. Difficult to get a core to age with a 3-4' DBH cedar. Previous age on the larger cedar (7" dbh) in stand was 86. It does appear that some of the cedar saps are declining or stunted. Dead tops with live branches closer to the ground. Pockets of thick cedar and spruce regen all less than 5 feet tall. Very little deer browse observed on the cedar.																																																															
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<b>37</b>	6229 - Mixed lowland shrub	Nonstocked	56.5		Unspecified	No	South Branch Spring Brook runs though stand. Mostly grass mats, cattails, alder and scattered pockets of conifers.																																																															
<b>38</b>	623 - Emergent Wetland	Nonstocked	8.6	0	Unspecified	No	Recent flooding from increased water table and/or beaver activity. Seeps from adjacent stands flow into this then flow north toward the large lowland stand 69 to the north. Appeared to have mixed aspen and deciduous but most within central portion are dead and falling over. Map shows hiking trail going through stand, there is a re-route on the upland side on the east edge of the stand.																																																															
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<b>39</b>	6129 - Mixed Coniferous Lowland Forest	Sawtimber Medium	14.6	110	141-170	N/A	Appears to have operable portions in the east and central portions. White Pine grove found in the west side of the stand with significant fir and spruce saplings 5-10' tall. Other portions with thicker canopy cover contain less sub-canopy development. Fair amount of deciduous species present. Upland portion is the far east near the opening and the road.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Balsam Poplar		5	Pole	8		Black Ash		Low	< 5 feet	Sapling	
Balsam Fir		15	Pole	7		Balsam Fir		Low	5 - 10 feet	Sapling	
Black Spruce		20	Pole/Log	8	82	Red Maple		Medium	10 - 20 feet	Sapling	
Northern White Cedar		45	Log/Pole	11	110	Black Spruce		Low	5 - 10 feet	Sapling	
Red Maple		8	Pole/Log	9							
Black Cherry		2	Log	11							
White Pine		2	XLog	22							
Paper Birch		3	Pole	7							
<b>40</b>	4110 - Sugar Maple Association	Sawtimber Medium	20.0	90	51-80	N/A	Multi-polygon stand. Thinned 2018. No regeneration gaps were put in. Old fence lines on the west side along with an intermittent stream/wetland in the southeast. Powerline runs through stand.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Sugar Maple		90	Log/Pole	10	90	White Ash		Medium	< 5 feet	Sapling	
Basswood		5	Log	10		Beech		Low	< 5 feet	Sapling	
American Elm		2	Log	10		Sugar Maple		Trace	< 5 feet	Seeding	
Black Cherry		3	Pole	8							
<b>41</b>	6122 - Black Spruce	Poletimber Well	10.5	115	51-80	N/A	Unique "island" of Black Spruce surrounded by tag alder swamp.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Black Spruce		90	Pole	7	115	Tag Alder		Medium	5 - 10 feet	Tall Shrub	
Paper Birch		2	Pole/Sapling	6		Black Spruce		Low	5 - 10 feet	Sapling	
Tamarack		8	Pole	7							
<b>42</b>	4134 - Aspen, Spruce/Fir	Poletimber Well	7.0	52	81-110	N/A	Originally merged with the hardwood stand to the east. Heavy fir component intermixed with good quality quaking aspen. No treatment history. Small hardwood influence along Howard road.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Balsam Poplar		5	Pole	8		Red Maple		Low	5 - 10 feet	Sapling	
Balsam Fir		30	Sapling/Pole	6		Quaking Aspen		Low	5 - 10 feet	Sapling	
Black Spruce		5	Pole	8	82	Balsam Fir		Medium	< 5 feet	Sapling	
Black Cherry		10	Pole/Log	8		Paper Birch		Low	10 - 20 feet	Sapling	
Quaking Aspen		40	Pole/Log	8	52						
Red Maple		8	Pole	7							
Sugar Maple		2	Log	10							





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>43</b>	4111 - S.Maple, Hard Mast Association	Sawtimber Well	69.7	96	81-110	N/A	Thinning completed 2006. Only cut areas that were operable and excluded hills in the southern portions. Larger diameters to the north where thinned, and smaller diameters to the south in areas. Some hills and valleys in the south. Beech is a problem in this stand. Good sugar maple saps in northern portions under larger crowned maples. Heavy to ash blowdown in the south with some areas pure beech brush. BA variable from 40-160 sq ft. Scattered aspen clones. Some very large wolfy beech present that appear to be healthy.																																																							
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<b>44</b>	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	39.8	127	81-110	N/A	Fairly variable throughout. Tag alder dominates subcanopy through majority with scattered areas of spruce logs and overmature aspen. Most Aspen is along the southern boundary. Some 'upland' portions that appear to be drier but wet overall. Blow down is present. Good conifer establishment in canopy gaps.																																																							
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<b>45</b>	3105 - Mixed Upland Herbaceous	Nonstocked	3.0		Unspecified	No	Scattered cherry brush and pines on the edges.
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<b>46</b>	6124 - Lowland Spruce-Fir	Poletimber Medium	131.4	40	51-80	N/A	Highly variable and patchy stocking. Lots of canopy gaps and openings that are giving way to a good young age class of mostly fir, but also spruce and birch. Overall pole. Pockets of log sized cedars and spruce throughout. Moving west diameters decrease as well as canopy cover. Tag alder dominates in spots.																																																							
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<b>47</b>	6230 - Cattail	Nonstocked	11.0		Unspecified	No	Majority of stand is cattails. Edges have some deciduous species present but overall large mortality in any remaining standing timber. Most likely beaver flooding related.												
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<b>48</b>	6124 - Lowland Spruce-Fir	Poletimber Well	74.5	84	111-140	N/A	Stand can be viewed as one big seep with multiple seeps/streams running through it. Blowdown in areas resulting in good conifer regen. Where canopy is closed, understory is non-existent or stagnant. A lot of aspen is declining.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Red Maple		10	Pole	8		Balsam Fir		
Balsam Poplar		10	Log/Pole	15		Black Spruce		
Balsam Fir		30	Pole/Log	9	84	Black Ash		
Black Spruce		20	Pole/Log	8		White Pine		
Northern White Cedar		10	Pole/Log	9		Tag Alder		
White Pine		5	Log	15				
Quaking Aspen		10	Log/Pole	10				
Hemlock		5	Pole	8				
<b>49</b>	3301 - Low Density Deciduous Trees	Nonstocked	1.5		Unspecified	No	Appears to be used as a campsite. Small creek runs along northern edge of opening.	
<b>Sub-Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>				
Black Cherry		Low	10 - 20 feet	Sapling				
Apple (spp.)		Low	10 - 20 feet	Pole				
Honeysuckle (spp.)		Low	5 - 10 feet	Tall Shrub				
White Pine		Trace	10 - 20 feet	Pole				
<b>51</b>	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	54.0	107	141-170	N/A	Easy walking in central portions. Diameters seem to decrease overall moving to the west. Canopy gaps giving way to heavy fir regen. Spruce seems to be establishing ok. Did not see any cedar regeneration while walking through. Pocket towards the east side contains nice hemlock, with large diameter cedars and very mucky soils.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Red Maple		5	Pole	6		Balsam Fir		
Balsam Fir		10	Pole	7		Black Spruce		
Black Spruce		30	Log/Pole	10		Paper Birch		
Northern White Cedar		43	Pole/Log	9	107	Leatherleaf		
White Pine		5	Log	14		White Pine		
Paper Birch		5	Pole/Sapling	7				
Hemlock		2	Log	12				
<b>52</b>	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	14.8	103	81-110	N/A	Stream flows through in the northern portion. Small upland ridge on the edge of the A2 stand then dips back down into wet mucky soils. Saplings dominate the central portion with larger poles and logs in the north and southern strips.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Quaking Aspen		5	Pole/Log	8		Balsam Fir		
Balsam Fir		20	Pole/Sapling	7		White Pine		
Black Spruce		24	Pole	7		Paper Birch		
Northern White Cedar		26	Pole	7	103	Northern White Cedar		
Tamarack		10	Log	11				
Paper Birch		10	Pole/Sapling	7				
White Pine		5	Log	11				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
<b>53</b>	4130 - Aspen	Poletimber Well	117.4	37	81-110	N/A	Old sale notes indicate the majority of the stand was harvested in 1984 and some in 1970. The small portion west of Howard road was harvested in the 70's and was set up to get cut in 2003 but was too wet. Varying diameters throughout. Poor quality hardwood type appearance in the east with rolling topo. Good conifer component throughout. Small creek flows from east to west through middle of stand resulting in a flood plain type appearance with scattered dying elms, grasses, and tag alder. Scattered oaks throughout, some very large diameter.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>			
Sugar Maple		5	Pole	5		Balsam Fir			
Quaking Aspen		40	Pole/Log	9	37	Black Spruce			
Black Cherry		5	Pole/Log	8		Honeysuckle (spp.)			
Bigtooth Aspen		20	Pole/Log	9		Sugar Maple			
Red Maple		8	Pole	9		Hawthorn (spp.)			
Red Oak		8	Log/Pole/XLog	16		Witch Hazel			
Balsam Fir		5	Log/Pole	11		Apple (spp.)			
Black Spruce		2	Log	14					
White Spruce		2	Log	12					
Paper Birch		5	Log/Pole	10					
<b>54</b>	3105 - Mixed Upland Herbaceous	Nonstocked	2.4		Unspecified	No		Grassy opening. Snowmobile trail runs through the SE corner.	
<b>Sub-Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>					
Hawthorn (spp.)		Medium	5 - 10 feet	Tall Shrub					
Black Cherry		Medium	5 - 10 feet	Tall Shrub					
White Pine		Low	10 - 20 feet	Sapling					
Honeysuckle (spp.)		Low	5 - 10 feet	Tall Shrub					
<b>56</b>	3301 - Low Density Deciduous Trees	Nonstocked	6.1		Unspecified	No	Opening with scattered vegetation. Most likely an old landing at one point. Quite a few berms present along NW portion of stand.		
<b>Sub-Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>					
Rock Elm		Low	>20 feet	Pole					
Black Cherry		Low	10 - 20 feet	Sapling					
Honeysuckle (spp.)		Low	5 - 10 feet	Tall Shrub					
<b>57</b>	6129 - Mixed Coniferous Lowland Forest	Sawtimber Medium	61.3	137	141-170	N/A	Overall very similar to stand 51 to the north, but more noticeable canopy gaps as well as larger diameters. Composition is fairly the same with small logs/large poles with gaps containing good conifer regeneration. 51 to the north contains more of a transition into different size classes rather than a distinct appearance of age classes. Small creeks flow through stand into the South Branch. Far East and SE portions contain the majority of the deciduous species.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>			
Red Maple		3	Pole/Log	8		Balsam Fir			
Balsam Fir		10	Pole/Log	9		Black Spruce			
Black Spruce		30	Log/Pole	10		Paper Birch			
Northern White Cedar		46	Log/Pole	10	137	Leatherleaf			
White Pine		3	Log	14		White Pine			
Paper Birch		3	Pole/Sapling	7					
Tamarack		2	Log	10					
Quaking Aspen		3	Pole/Log	9					





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<b>62</b>	4134 - Aspen, Spruce/Fir	Sawtimber Medium	14.9	78	81-110	N/A	Good quality aspen with pockets in the south declining giving way to conifers. Majority of stand is upland with a small lowland appearance in some areas near the road.																																																																
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<b>63</b>	4199 - Other Mixed Upland Deciduous	Poletimber Medium	12.6	62	1-50	N/A	Variable stand with scattered aspen clones and cherry brush. Wildlife appear to use the stand heavily. Heavy browse on conifer saps.																																																																
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
<b>66</b>	6111 - Lowland Balsam Poplar	Poletimber Well	39.2	40	111-140	N/A	Fairly nice lowland aspen. Based on 98 imagery as well as old sale notes, southern half appears to have been harvested around 1980. Areas of true lowland within stand with standing water. South/SE contains middle ground that appears to be soft but doesn't contain standing water. Upland ridge on the east side that moves up towards the northern portion where it becomes dry and contains nice log bigtooth. West half of stand very wet with high beaver activity. Pockets where aspen didn't regenerate contain mostly fir and paper birch.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Quaking Aspen		15	Pole	8	40	Black Spruce		
Balsam Poplar		40	Log/Pole	10	40	Balsam Fir		
Bigtooth Aspen		10	Log	12		Black Ash		
Red Maple		8	Pole	7		Honeysuckle (spp.)		
Balsam Fir		15	Pole/Sapling	6				
Paper Birch		10	Pole/Sapling	6				
Black Spruce		2	Log	10				
<b>67</b>	6122 - Black Spruce	Poletimber Well	6.8	64	51-80	N/A	Wet.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Balsam Poplar		10	Pole/Log	8		Tag Alder		
Balsam Fir		10	Pole/Log	8		Black Ash		
Black Spruce		50	Pole	6	64			
Northern White Cedar		30	Pole	7				
<b>68</b>	4119 - Mixed Northern Hardwoods	Sawtimber Well	265.6	83	81-110	N/A	Quite variable. Stand appears to have never had Ash or Beech salvage with no on the ground indicators or old Timber Completion Reports. Ash blowdown is common throughout but some are still standing. Portions west of stand 72 seem to contain higher densities of pole sized basswood, red maple and ash with intermixed oak, and sugar maple logs. East of stand 72 contains large diameter oaks, smaller basswood, ash with occasional sm logs and hemlock.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Sugar Maple		30	Log/Pole/XLog	12	83	White Ash		
Red Maple		8	Log/Pole	10		Sugar Maple		
Basswood		26	Log/Pole	12		Beech		
Beech		5	Log/Pole/XLog	13		Ironwood		
Red Oak		25	Log/Pole/XLog	15				
Bigtooth Aspen		5	Log/XLog	14				
Hemlock		1	Log/XLog	16				
<b>69</b>	629 - Mixed non-forested wetland	Nonstocked	21.9		Unspecified	No	Flooded out beaver ponds with common mortality within wetter areas. Wet in central portions with heavier timber on the edges. Small 'upland' pocket in the middle with scattered cherry brush, red maple and even an oak.	
<b>Sub-Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>				
Black Spruce		Medium	>20 feet	Pole				
Balsam Fir		Medium	Variable	Sapling				
Black Cherry		Low	5 - 10 feet	Sapling				
Cattail spp.		Medium	5 - 10 feet	Non-Wood				
Tag Alder		Low	5 - 10 feet	Tall Shrub				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
<b>70</b>	6124 - Lowland Spruce-Fir	Sapling Well	11.5	40	1-50	N/A	Sale note said this was harvested in 1980. Scattered overstory small log/large pole black spruce. Some areas would be a definite small pole stand, but majority is still sap. Appears the water table is increasing due to higher presence of cattails. North east edge contains a tributary of the south branch. Log white pines present on the edges.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Balsam Fir		40	Sapling/Pole	2	40	Black Ash		
Northern White Cedar		10	Sapling/Pole	2		Black Spruce		
Black Spruce		30	Sapling/Pole	4		Balsam Fir		
Red Maple		5	Sapling/Pole	2		Northern White Cedar		
Paper Birch		5	Sapling	1		Cattail spp.		
White Pine		10	Sapling/Pole/Log	2		Density		
						Avg. Height		
						Size		
<b>71</b>	4130 - Aspen	Poletimber Well	84.4	44	111-140	N/A	Mixed aspen stand with a hardwood component throughout. Central portion between lowland stands contains small seeps/creeks with a small conifer component. East portions are more variable and have a significantly more sugar maple and red oak component with areas of larger diameter trees with smaller sap/pole maples underneath ( A consistent aspen clone is broken up into clumps with maples/oaks intermixed.) West and central portions are more consistent with aspen and mixed small log/large pole sm of fair to poor quality.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Sugar Maple		10	Pole/Log/Sap	9		Sugar Maple		
Red Oak		5	Pole/Log/XLog	9		Hawthorn (spp.)		
Bigtooth Aspen		40	Log/Pole	10	44	Ironwood		
Quaking Aspen		40	Log/Pole	10		Density		
Black Cherry		5	Pole	8		Avg. Height		
						Size		
<b>72</b>	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	9.3	125	141-170	N/A	Drainage for seeps from surrounding hardwood stands. Stream flows through stand from east to west. Heavy wildlife use. Scattered hardwood component on "drier" portions.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Sugar Maple		5	Pole	5		Black Ash		
Red Maple		5	Pole/Log	9		Balsam Fir		
Basswood		5	Pole	6		Hemlock		
Paper Birch		5	Pole	8		Density		
Northern White Cedar		45	Log/Pole	10	125	Avg. Height		
Hemlock		35	Pole/Log	9		Size		
<b>73</b>	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	9.8	56	81-110	N/A	Stagnant sub-canopy. Old skid trail cutting through from Howard road into the lowland aspen stand. Aspen falling out. Upland portions closer to road.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Balsam Fir		10	Pole/Log	9		Black Ash		
Black Spruce		5	Log/Pole	11		Balsam Fir		
Northern White Cedar		15	Log/Pole	10	147	Red Maple		
Quaking Aspen		35	Log/Pole	10	56	Black Spruce		
Red Maple		15	Pole	7		Density		
Paper Birch		10	Pole/Log	8		Avg. Height		
Sugar Maple		5	Log/Pole	10		Size		
White Pine		5	Log/XLog	15				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																					
<b>74</b>	6120 - Lowland Cedar	Poletimber Well	8.0	88	141-170	N/A	Small dense conifer stand. Multiple streams are present. One flowing from stand 77 and one originating from a seep in the east portion.																																																					
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<b>76</b>	3105 - Mixed Upland Herbaceous	Nonstocked	4.6		Unspecified	No	Scattered cherry brush, honeysuckle and an old fence line on the east side. Parking lot for trailhead is just to the south.																																																					
<b>77</b>	629 - Mixed non-forested wetland	Nonstocked	15.6	0	Unspecified	No	Appeared to have more lowland deciduous before changes in water table. Pocket in southern finger with Phragmites. Appears to be exotic NOT native. Cedars around flowing portions of water with scattered white pine and some black spruce saps within the interior. Heavy beaver																																																					
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<b>78</b>	4110 - Sugar Maple Association	Sawtimber Medium	212.3	83	81-110	N/A	Stand thinned in 2018; Howard Road HDWDS (52-028-13-01).																																																					
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<b>79</b>	4111 - S.Maple, Hard Mast Association	Sawtimber Medium	55.1	83	81-110	N/A	Stand harvested in 2018, Howard Road Hardwoods (52-028-13-01). Very nice oak component throughout. Overall rolling topo. Scattered white pine and hemlock. No oak was cut during thinning.																																																					
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments				
<b>80</b>	4139 - Aspen, Mixed Deciduous	Sapling Medium	52.1	2	Immature	N/A	Final harvest complete July 2019 apart of Rainbow Dash Aspen (52-023-13). Multi-polygon stand. Some wet pockets were present, some were able to harvest, some were too wet. Southern polygon was cut first and very good regen present. All hemlock were left.				
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>	
Bigtooth Aspen		30	Sapling	1	2	Sugar Maple		Trace	< 5 feet	Seeding	
Quaking Aspen		25	Sapling	1	2	Balsam Fir		Low	< 5 feet	Sapling	
Red Maple		25	Sapling	1	2	Red Maple		Medium	< 5 feet	Sapling	
Black Cherry		5	Sapling	1							
Balsam Fir		5	Sapling	1							
Black Spruce		5	Sapling	1							
Sugar Maple		5	Sapling	1							
<b>81</b>	6120 - Lowland Cedar	Poletimber Well	7.0	127	51-80	N/A		Majority of stand a river corridor containing the South Branch Spring Brook . Cedar dominates along the corridor with scattered tamarack and black spruce logs in the remaining portion of the stand.			
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>			<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Balsam Fir		10	Pole	7		Tag Alder			High	5 - 10 feet	Tall Shrub
Northern White Cedar		50	Pole	8	127	Black Ash			Low	Variable	Sapling
Tamarack		20	Pole/Log	9	127	Balsam Fir			Low	5 - 10 feet	Sapling
Black Spruce		20	Pole/Log	8							
<b>82</b>	629 - Mixed non-forested wetland	Nonstocked	5.5		Unspecified	No	Appears to have been flooded by beaver activity. Most standing timber is dead with areas giving way to alder and cattails.				
<b>Sub-Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>							
Tag Alder		High	5 - 10 feet	Tall Shrub							
Cattail spp.		High	Unspecified	Non-Wood							
<b>84</b>	4319 - Mixed Upland Forest	Poletimber Well	6.2	55	81-110	N/A	Odd transitional stand between upland and lowland. SE corner has a hardwood component of maples intermixed with balsams. Northern strip contains a tag alder inclusion moving into a 'drier' aspen pocket.				
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>	
Balsam Fir		42	Pole/Log	8	55	Tag Alder		Medium	5 - 10 feet	Tall Shrub	
Quaking Aspen		20	Pole/Log	9	48	Balsam Fir		Low	Variable	Sapling	
Red Maple		15	Log/Pole	10		Black Ash		Low	5 - 10 feet	Sapling	
Black Spruce		10	Pole	7		Paper Birch		Low	10 - 20 feet	Sapling	
Paper Birch		10	Pole	7		White Pine		Trace	10 - 20 feet	Sapling	
Sugar Maple		3	Log/Pole	10							
<b>85</b>	4130 - Aspen	Poletimber Well	28.7	47	81-110	N/A		Fair aspen stand with varying quality and density. Intermixed hardwood component. Beaver activity in the eastern portions. Some minor topography. Most quaking in the west portions and lower areas near stand 74. Large pole, small log.			
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>			<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Red Maple		10	Pole	6		Sugar Maple			Low	< 5 feet	Seeding
Quaking Aspen		40	Pole/Log	8	47	Sugar Maple			Low	10 - 20 feet	Sapling
Bigtooth Aspen		40	Pole/Log	8	47	Beech			Low	5 - 10 feet	Sapling
Sugar Maple		5	Log/Pole	13		Balsam Fir			Low	5 - 10 feet	Sapling
Basswood		2	Log	14		Red Oak			Trace	5 - 10 feet	Sapling
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