



# Compartment Review Presentation

Gwinn Forest Management Unit

Compartment 32273

Entry Year 2026

Acreage: 999

County Marquette

Management Area: Suomi Till and Outwash Plain

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**Stand Examiner:** Rick Hill

**Legal Description:**

T47N R25W Sec's 22, 23, 26, & 27

**Identified Planning Goals:**

Compartment 273 is within the Sands Plains Management Area. Goals for this management area are to provide a variety of timber products; maintain or enhance wildlife habitat; protect areas with unique characteristics; and provide for forest based recreational uses.

**Soil and topography:**

Soils within the compartment are generally sandy in nature, belonging to the Garlic-Alcona-Voelker Association. The dominant soil type is Rubicon sand. The eastern most edge of the compartment, however, is made up of Rousseau-Occqueoc fine sands. Topography is fairly flat to rolling with some steeper ridges and valleys in the eastern portion of the compartment.

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

Ownership around the compartment is primarily private residential with some County land holdings. The Marquette County Fair Grounds are located immediately to the west of the compartment.

**Unique Natural Features:**

No Unique Natural Features known.

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

No Archeological, Historical, or Cultural Features known.

**Special Management Designations or Considerations:**

The Blueberry Ridge Ski Trail is located entirely within this compartment. Consideration has been given to this when developing treatments.

**Watershed and Fisheries Considerations:**

Fisheries Values: Excellent

Fisheries Concerns: Bordering the eastern edge of this compartment is Cedar Creek, a designated trout stream. This stream contains a decent population of brook trout and receives a run of Coho salmon and steelhead. Fisheries surveys have found Cedar Creek to serve as a nursery area for juvenile Coho salmon and steelhead. A premium should be placed on maintaining the integrity of this stream by buffering all aspen clear-cuts a minimum of 300 feet. Stands 32 and 33 are aspen stands with clear-cuts prescribed. Treatments in both stands should buffer the creek at a minimum of 300 feet.

**Wildlife Habitat Considerations:**

This compartment is found within the Suomi Till and Outwash Management Area, on a Disintegration Moraine in Southwestern Marquette County. The dominant Natural Communities are dry mesic northern forests, poor conifer swamps, and mesic northern forests. This management area offers opportunities to increase diversity and perhaps long-term oak sustainability through under planting white and red pine. Another priority is to maintain or increase wildlife corridors especially along riparian corridors. Wildlife management issues in the management area are mast (hard and soft); habitat fragmentation; mature forest conditions; mesic conifer; coarse woody debris; and retention or development of large living and dead standing trees (for cavities). This management area represents approximately ¼ of the oak resource on WUP state forest.

The following have been identified as featured species for the Suomi Till and Outwash Management Area: Blackburnian Warbler, Golden-winged Warbler, Kirtland's Warbler, Red Crossbill, Black-backed Woodpecker, Ruffed Grouse, American Marten, White-tailed Deer, Black Bear.

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

Surface sediments consist of lacustrine (lake) sand and gravel and glacial outwash sand and gravel and postglacial till. The glacial drift thickness varies between 100 to 200 feet. The Precambrian Jacobsville Sandstone subgroups below the glacial

drift. The Jacobsville was previously used as a building stone. Gravel pits are located in the area, and potential appears to be good. The Empire iron mine is located nine miles to the west. This area has not been previously leased for metallic exploration. There is no economic oil and gas production in the UP.

**Vehicle Access:**

There is good vehicle access to the compartment via County Road's 553, 480, and NAP. The compartment itself is closed to any motorized vehicle use.

**Survey Needs:**

Any needed surveys will be requested before sales are prepared.

**Recreational Facilities and Opportunities:**

This area is a developed cross country ski area. it is regularly groomed for skate and traditional skiing. the ski area also features a warming cabin and lighted loop for night skiing. Difficulty rating of the ski trails vary from beginner trails to expert level trails. During snow free times the trails are utilized for hiking, horses and bikes are not allowed on the trails by director's order to reduce erosion and trail damage due to sandy soils. There is an access trail leading to the thunder valley bridal trail that passes through the compartment.

**Fire Protection:**

This compartment falls within the boundary of the Sands Plains Zone Dispatch. There is adequate access to this compartment for fire suppression.

**Additional Compartment Information:**

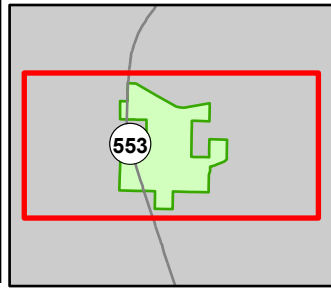
**The following reports from the Inventory are attached:**

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

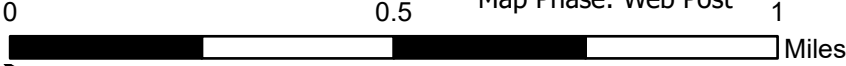
**The following information is displayed, where pertinent, on the attached compartment maps:**

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

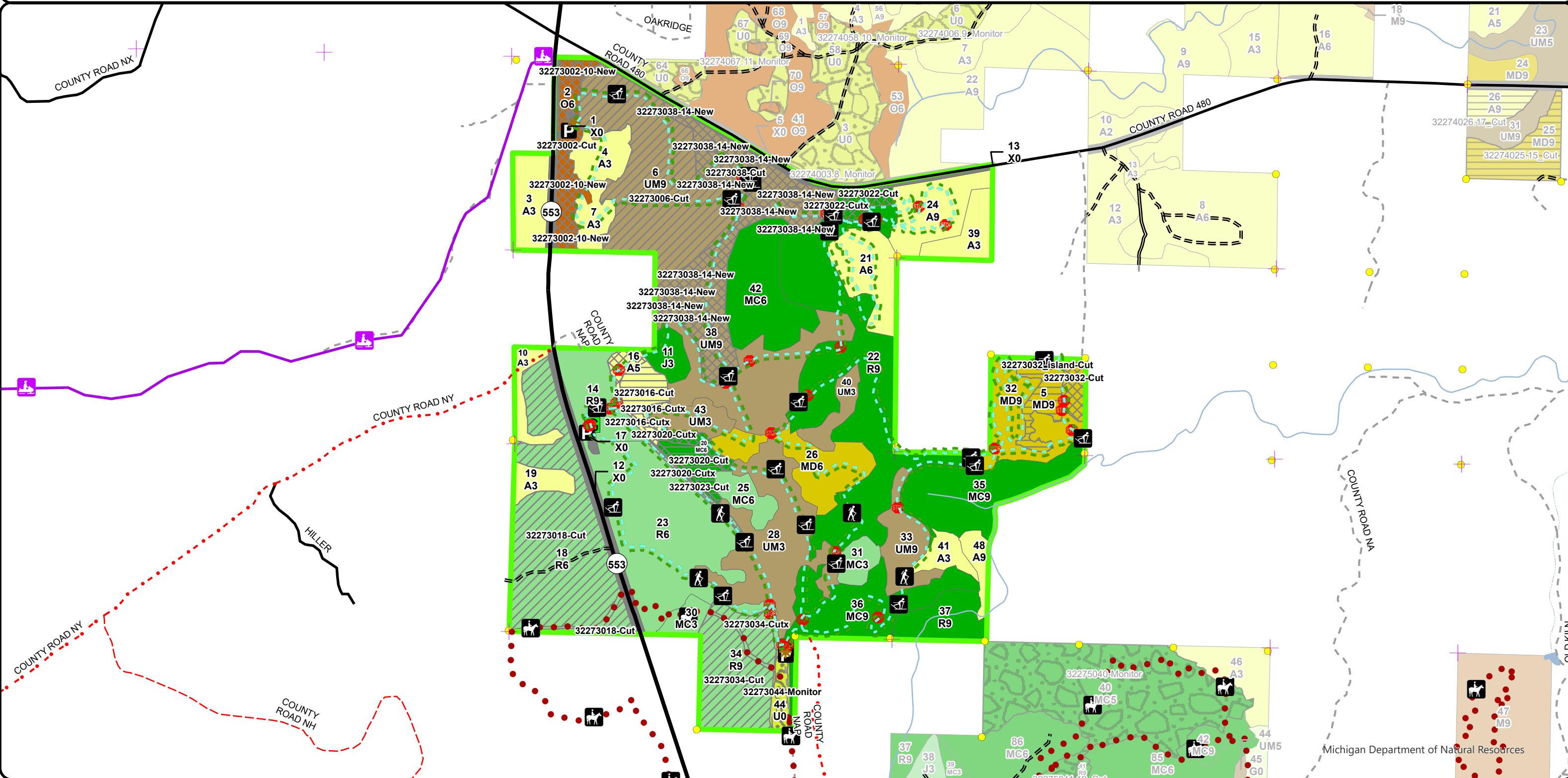
Cover Type & Treatments Map



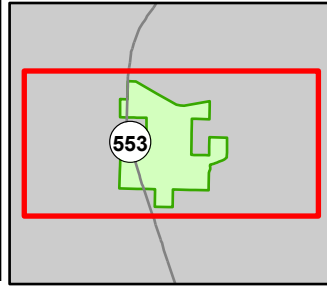
Compartment: 32273  
 T47N, R25N, Sec: 22, 23, 26, 27  
 County: Marquette  
 Unit: Gwinn  
 Mgmt Area: Suomi Till and Outwash Plain  
 YOE: 2026  
 Acres: 999.4 GIS Calculated  
 Examiner: Rick Hill  
 Map Revised: 08/13/2024  
 Map Phase: Web Post



- |                              |                              |                                       |                                   |                              |
|------------------------------|------------------------------|---------------------------------------|-----------------------------------|------------------------------|
| Gate                         | Horse Trails                 | DNR - Forest Access Route             | Perennial River                   | 412 - Oak Types              |
| Parking Lot                  | Ski Trails                   | Federal / State Highway               | Lakes and Rivers                  | 413 - Aspen Types            |
| Sign                         | Snowmobile Trails            | Federal / State / County - Paved Road | Compartment Boundary              | 419 - Mixed Upland Deciduous |
| Trailhead                    | Designated Equestrian Trails | County - Gravel Road                  | Counties                          | 421 - Planted Pines          |
| Survey Grade Corners         | Designated Hiking Pathways   | County - Dirt Road (Seasonal)         | Selection (Group, Single Tree)    | 422 - Natural Pines          |
| Remonumented Section Corners | Designated Snowmobile Trails | Private - Dirt / Gravel Road          | Clearcut (w/Reserves)             | 430 - Upland Mixed Forest    |
| Hiking Trails                | DNR - Secondary Forest Road  | Intermittent Stream                   | Thinning (Crown, Low, Systematic) | 122 - Roads/Parking Lot      |
|                              |                              | Lake/Pond                             | Regeneration Survey               | 330 - Low Density Trees      |



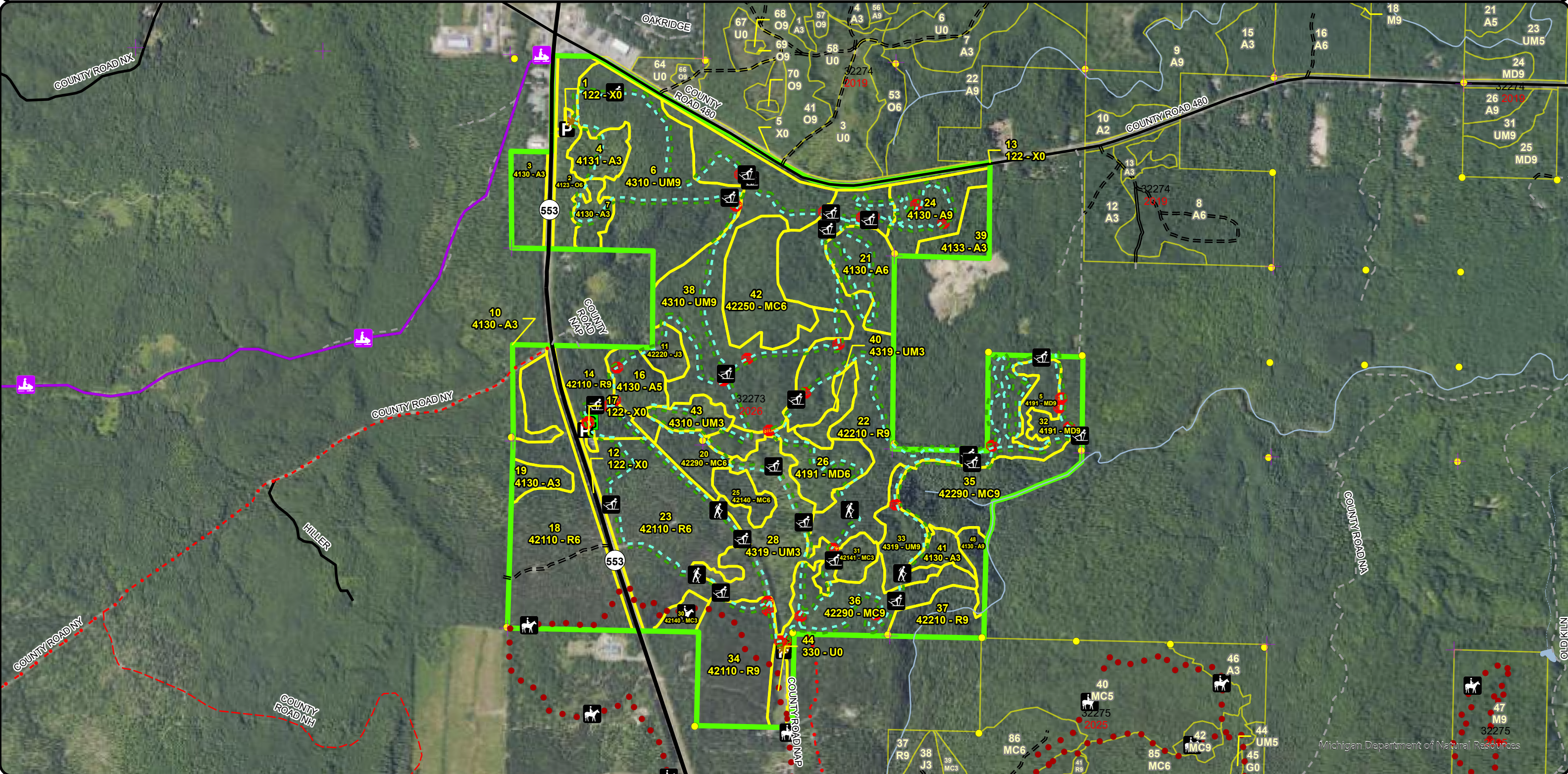
Stand Boundary Map



Compartment: 32273  
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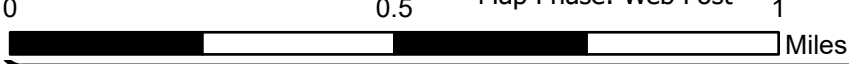
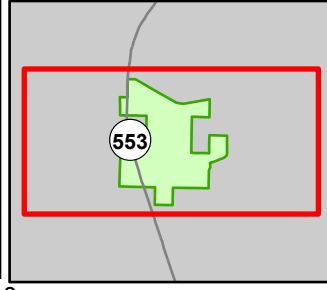
- Gate
- Parking Lot
- Sign
- Trailhead
- Survey Grade Corners
- Remonumented Section Corners
- Hiking Trails
- Horse Trails
- Ski Trails
- Snowmobile Trails
- Designated Equestrian Trails
- Designated Hiking Pathways
- Designated Snowmobile Trails
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State Highway
- Federal / State / County - Paved Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Compartment Boundary
- Counties
- Stand Boundaries
- 412 - Oak Types
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 430 - Upland Mixed Forest
- 122 - Roads/Parking Lot
- 330 - Low Density Trees
- State Forests

0 0.5 1 Miles



Special Conservation Areas  
& Site Conditions Map

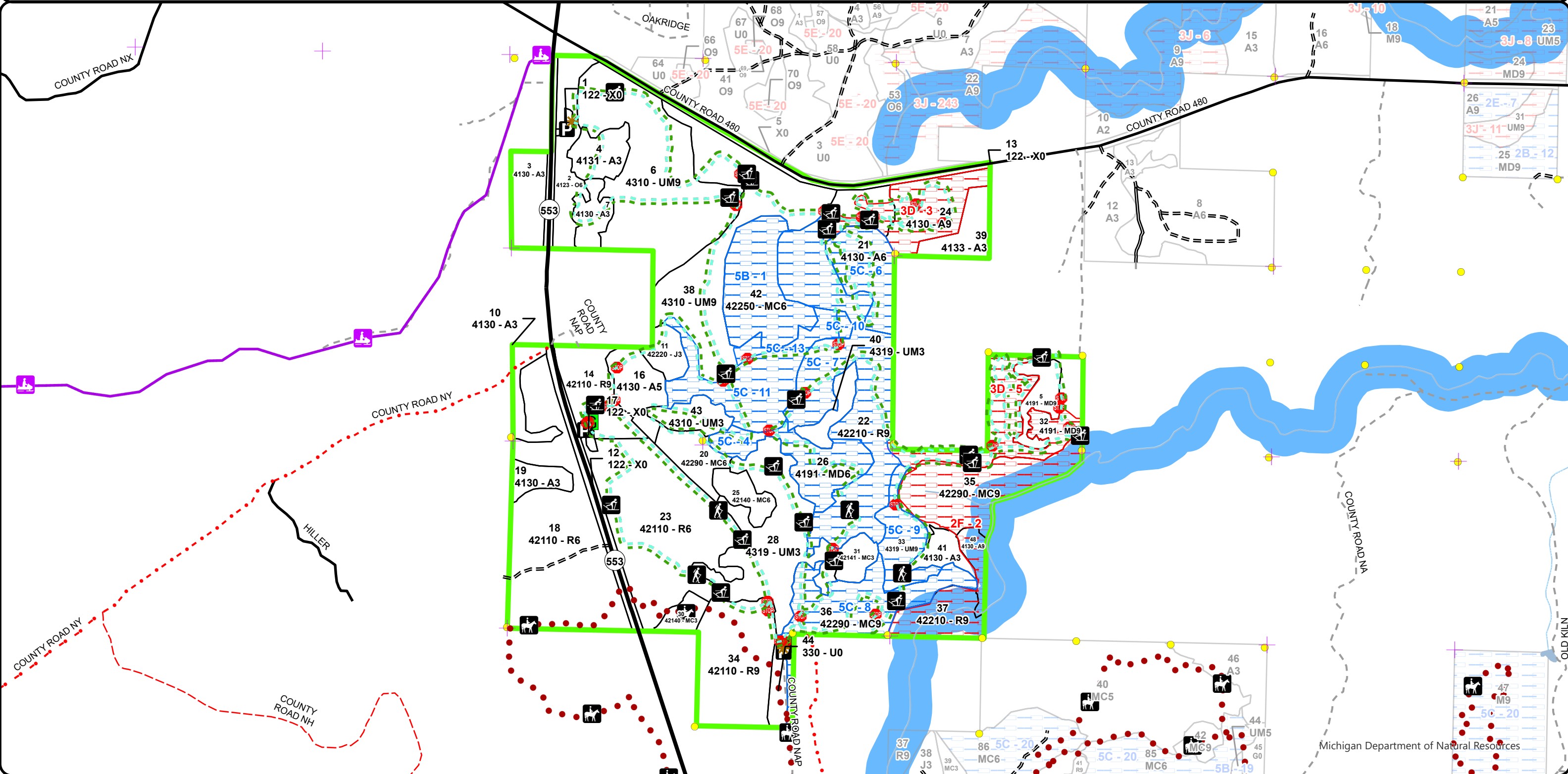
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- Gate
- Parking Lot
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- Trailhead
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- Designated Equestrian Trails
- Designated Hiking Pathways
- Designated Snowmobile Trails
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State Highway
- Federal / State / County - Paved Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Intermittent Stream
- Lake/Pond
- Perennial River

- Lakes and Rivers
- Compartment Boundary
- Counties
- Available w/ Constraints
- Unavailable
- 5B: Maintain for regeneration purposes
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 2F: Too steep
- 3D: Recreational / Scenic values
- Stand Boundaries
- Cold Water Streams
- High Priority Trout Stream Buffer



Report 1 – Total Acres by Cover Type and Age Class



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Unnever-Aged	Total
Aspen	0	7	47	15	0	0	21	0	0	0	0	44	0	0	0	0	0	0	133
Jack Pine	0	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Low-Density Trees	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	0	0	0	67	0	0	0	0	0	0	67
Natural Mixed Pines	0	0	0	0	0	0	0	0	0	0	0	122	0	0	0	0	0	0	122
Oak	0	0	0	0	0	0	0	0	0	0	0	19	0	0	0	0	0	0	18
Planted Mixed Pines	0	0	0	12	8	0	0	0	0	0	0	0	0	0	0	0	0	0	20
Red Pine	0	0	0	0	0	0	0	218	0	0	0	114	0	0	0	0	0	0	332
Upland Mixed Forest	0	59	8	0	0	0	78	0	0	0	0	118	0	0	0	0	0	0	263
Urban	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30
<b>Total</b>	<b>37</b>	<b>66</b>	<b>55</b>	<b>35</b>	<b>8</b>	<b>0</b>	<b>99</b>	<b>218</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>484</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>999</b>



## Report 2 – Treatment Summary

Gwinn Mgt. Unit

Year of Entry: 2026

Acres of Harvest

Compartment 273

Total Compartment Acres: 999

Commercial Harvest - 316  
 Harvests with Site Condition - 0  
 Next Step Harvest - 0  
 Habitat Cut - 8

### Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Aspen	9	6	0	0	0	0	0	0	0	15
Mixed Upland Deciduous	10	6	0	0	0	0	0	0	0	16
Natural Mixed Pines	7	5	0	0	0	0	0	0	0	12
Oak	2	17	0	0	0	0	0	0	0	18
Red Pine	0	8	0	0	0	116	0	0	0	124
Upland Mixed Forest	7	56	0	0	0	77	0	0	0	140
<b>Total</b>	<b>34</b>	<b>98</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>193</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>325</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	325	0	0	0	0	0	4	0	0	329
Next Step	0	15	15	0	0	8	216	0	0	254
<b>Total</b>	<b>325</b>	<b>15</b>	<b>15</b>	<b>0</b>	<b>0</b>	<b>8</b>	<b>220</b>	<b>0</b>	<b>0</b>	<b>583</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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**Proposed Treatments:**

<b>2</b>	<b>32273002-10-New</b>	1.5	4123 - Red Oak	Poletimber Well	109	111- 140	Harvest	Clearcut	411 - Northern Hardwood	Even-Aged	Yes
<p><u>Prescription</u> Clearcut patches of the parent stand focusing on releasing advanced regeneration or oak and white pine areas where regen can be expected. if areas without advanced regeneration are selected scarification, herbicide as well as planting of oak, white pine and red pine are available next steps to assist in regeneration of gaps. Consider marking a few large, crowned trees for tops over 8 inches to be left to protect regeneration from browsing. Maintain a patch size of 1/4 to 1 acre. Total size should be around 10% of the stand.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> SitePrep, Scarification; Planting, Unfurrowed; Pesticide, Skidder - Site Prep; Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Oak, red pine, white pine, paper birch small percentages of aspen, red maple and jack pine are acceptable.</p> <p><u>Regen:</u></p> <p><u>Other</u> Position gaps in areas with minimal aesthetic, and operational effect on the ski trail. ensure any gaps installed in stand to do not increase drifting on trail. any use of the trail for hauling cannot damage the trail ensure trail is fully rehabbed and seeded before the next ski season. Work with PRD and user groups to mitigate any potential conflict with harvest.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>											
<b>2</b>	<b>32273002-Cut</b>	16.6	4123 - Red Oak	Poletimber Well	109	111- 140	Harvest	Group Selection	412 - Oak Types	Even-Aged	No
<p><u>Prescription</u> Cut stand using a selection system by marking trees for removal to a residual basal area of 70 SQ FT. focus removal on aspen, birch, and jack pine as well as trees that threaten to fall into the ski trail. Mark to improve growing conditions of white and red pine present within the stand as well as healthy looking oak.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Intermediate)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Oak, red pine, white pine, paper birch small percentages of aspen, red maple and jack pine are acceptable.</p> <p><u>Regen:</u></p> <p><u>Other</u> Ensure harvest has minimal aesthetic, and operational effect on the ski trail. ensure tree selection does not increase drifting on trail. any use of the trail for hauling cannot damage the trail ensure trail is fully rehabbed and seeded before the next ski season. Work with PRD and User Groups to mitigate any potential conflict with harvest.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>											
<b>6</b>	<b>32273006-Cut</b>	77.4	4310 - Pine, Oak Mix	Sawtimber Well	58	141- 170	Harvest	Crown Thinning	4319 - Mixed Upland Forest	Even-Aged	No
<p><u>Prescription</u> Cut stand using a selection system by marking trees for removal to a residual basal area of 90 SQ FT. focus removal on aspen, birch, and jack pine as well as trees that threaten to fall into the ski trail. Mark to improve growing conditions of white and red pine present within the stand as well as healthy looking oak. Ensure some big tooth aspen is retained though marking to maintain large, forked trees for nesting sites and potential cavity trees.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Oak, red pine, white pine</p> <p><u>Regen:</u></p> <p><u>Other</u> Ensure harvest has minimal aesthetic, and operational effect on the ski trail. ensure tree selection does not increase drifting on trail. any use of the trail for hauling cannot damage the trail ensure trail is fully rehabbed and seeded before the next ski season. Work with PRD and User Groups to mitigate any potential conflict with harvest.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</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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16	32273016-Cut	8.8	4130 - Aspen	Poletimber Medium	103	51-80	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
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Prescription Cut all trees over 2 inches leaving oak, red pine, white pine, and paper birch.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable aspen, oak, pine

Regen:

Other Ensure harvest has minimal aesthetic, and operational effect on the ski trail. position sale in such a way that it does not increase drifting on trial. any use of the trail for hauling cannot damage the trail ensure trail is fully rehabbed and seeded before the next ski season. Work with PRD and User Groups to mitigate any potential conflict with harvest.

Site Condition

Proposed Start Date: 10/1 /2025

16	32273016-Cutx	6.0	4130 - Aspen	Poletimber Medium	103	51-80	Harvest	Group Selection	4319 - Mixed Upland Forest	Even-Aged	No
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Prescription cut stand using a selection system by marking trees for removal to a residual basal area of 70 SQ FT. focus removal on aspen, birch and jack pine as well as trees that threaten to fall into the ski trail. Mark to improve growing conditions of white and red pine present within the stand as well as healthy looking oak.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable White pine, oak, red maple, red pine, aspen

Regen:

Other Ensure harvest has minimal aesthetic, and operational effect on the ski trail. ensure tree selection does not increase drifting on trial. any use of the trail for hauling cannot damage the trail ensure trail is fully rehabbed and seeded before the next ski season. Work with PRD and User Groups to mitigate any potential conflict with harvest.

Site Condition

Proposed Start Date: 10/1 /2025

18	32273018-Cut	78.4	42110 - Planted Red Pine	Poletimber Well	61	81-110	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
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Prescription Red pine second thinning mark stand to approximately 100 SQ FT marking trees for removal. Mark to improve overall stand quality and spacing. Avoid marking any oak during harvest.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2025



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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>20</b>	<b>32273020-Cut</b>	6.5	42290 - Natural Mixed Pine	Poletimber Well	103	81-110	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	No
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Prescription Cut all trees below 2 inches in diameter leaving white pine, oak, birch and red pine over 24 inches at DBH.

Specs:

Next Step SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)

Treatments:

Acceptable red pine

Regen:

Other Ensure harvest has minimal aesthetic, and operational effect on the ski trail. position sale in such a way that it does not increase drifting on trial. any use of the trail for hauling cannot damage the trail ensure trail is fully rehabbed and seeded before the next ski season. Work with PRD and User Groups to mitigate any potential conflict with harvest.

Site Condition

Proposed Start Date: 10/1 /2025

<b>20</b>	<b>32273020-Cutx</b>	5.3	42290 - Natural Mixed Pine	Poletimber Well	103	81-110	Harvest	Single Tree Selection	429 - Mixed Upland Conifers	Even-Aged	No
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Prescription Cut stand using a selection system by marking trees for removal to a residual basal area of 70 SQ FT. focus removal on aspen, birch, and jack pine as well as trees that threaten to fall into the ski trail. Mark to improve growing conditions of white and red pine present within the stand as well as healthy looking oak.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Oak, red pine, white pine, paper birch, aspen, red maple and jack pine are acceptable.

Regen:

Other Ensure harvest has minimal aesthetic, and operational effect on the ski trail. ensure tree selection does not increase drifting on trial. any use of the trail for hauling cannot damage the trail ensure trail is fully rehabbed and seeded before the next ski season. Work with PRD and User Groups to mitigate any potential conflict with harvest.

Site Condition

Proposed Start Date: 10/1 /2025

<b>22</b>	<b>32273022-Cut</b>	5.0	42210 - Natural Red Pine	Sawtimber Well	101	111-140	Harvest	Group Selection	4221 - Natural Red Pine	Even-Aged	No
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Prescription Cut stand using a selection system by marking trees for removal to a residual basal area of 80 SQ FT. focus removal on aspen, birch, and jack pine as well as trees that threaten to fall into the ski trail. Favor retention and reproduction of oak when marking. Mark to improve growing conditions of white and red pine present within the stand as well as healthy looking oak.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Oak, red pine, white pine, small percentages of aspen, red maple and jack pine are acceptable.

Regen:

Other Ensure harvest has minimal aesthetic, and operational effect on the ski trail. ensure tree selection does not increase drifting on trial. any use of the trail for hauling cannot damage the trail ensure trail is fully rehabbed and seeded before the next ski season. Work with PRD and User Groups to mitigate any potential conflict with harvest.

Site Condition

Proposed Start Date: 10/1 /2025



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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>22 32273022-Cutx</b>	0.4	42210 - Natural Red Pine	Sawtimber Well	101	111-140	Harvest	Clearcut	4221 - Natural Red Pine	Even-Aged	No
<p><u>Prescription Specs:</u> Clearcut patches of the parent stand focusing on releasing advanced regeneration or oak and white pine areas where regen can be expected. if areas without advanced regeneration are selected scarification, herbicide as well as planting of oak, white pine and red pine are available next steps to assist in regeneration of gaps. Maintain a patch size of 1/4 to 1 acre. Total size should be around 10% of the treatment.</p> <p><u>Next Step Treatments:</u> Planting, Unfurrowed; SitePrep, Scarification; Pesticide, Skidder - Site Prep; Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Oak, red pine, white pine, small percentages of aspen, red maple and jack pine are acceptable.</p> <p><u>Other Comment:</u> Position gaps in areas with minimal aesthetic, and operational effect on the ski trail. ensure any gaps installed in stand to do not increase drifting on trail. any use of the trail for hauling cannot damage the trail ensure trail is fully rehabbed and seeded before the next ski season. Work with PRD and User Groups to mitigate any potential conflict with harvest.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>										
<b>23 32273023-Cut</b>	2.7	42110 - Planted Red Pine	Poletimber Well	61	81-110	Harvest	Group Selection	4211 - Planted Red Pine	Uneven-Aged	No
<p><u>Prescription Specs:</u> Cut stand using a selection system by marking trees for removal to a residual basal area of 70 SQ FT. focus removal on aspen, birch, and jack pine as well as trees that threaten to fall into the ski trail. Mark to improve growing conditions of white and red pine present within the stand as well as healthy looking oak.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Oak, red pine, white pine, paper birch, aspen, red maple and jack pine are acceptable.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>										
<b>32 32273032-Cut</b>	6.3	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	103	81-110	Harvest	Group Selection	411 - Northern Hardwood	Even-Aged	No
<p><u>Prescription Specs:</u> Cut stand using a selection system by marking trees for removal to a residual basal area of 80 SQ FT. focus removal on aspen, birch, and jack pine as well as trees that threaten to fall into the ski trail. Mark to improve growing conditions of white pine and maple present within the stand as well as healthy looking oak. Retain all hemlock unless needed for operations. Create Gaps of no less then 1/4 acre to no more than an acre. totaling no more than 1.25 acres</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Mixed northern hardwood, aspen, mixed spruce, fir, white pine.</p> <p><u>Other Comment:</u> Ensure harvest has minimal aesthetic, and operational effect on the ski trail. ensure tree selection does not increase drifting on trail. any use of the trail for hauling cannot damage the trail ensure trail is fully rehabbed and seeded before the next ski season. Work with PRD and User Groups to mitigate any potential conflict with harvest. Access into stand will be limited to going though Gary Heidtman's property.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</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>34</b>	<b>32273034-Cut</b>	29.3	42110 - Planted Red Pine	Sawtimber Well	61	81-110	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
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Prescription Red pine second thinning mark stand to approximately 100 SQ FT marking trees for removal. Mark to improve overall stand quality and spacing.  
Specs:

Next Step  
Treatments:

Acceptable  
Regen:

Other  
Comment:

Site Condition

Proposed Start Date: 10/1 /2025

<b>34</b>	<b>32273034-Cutx</b>	7.8	42110 - Planted Red Pine	Sawtimber Well	61	81-110	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
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Prescription Red pine second thinning mark stand to approximately 100 SQ FT marking trees for removal. Mark to improve overall stand quality and spacing.  
Specs:

Next Step  
Treatments:

Acceptable  
Regen:

Other  
Comment:

Site Condition

Proposed Start Date: 10/1 /2025

<b>38</b>	<b>32273038-14-New</b>	6.5	4310 - Pine, Oak Mix	Sawtimber Well	109	111-140	Harvest	Clearcut	429 - Mixed Upland Conifers	Even-Aged	Yes
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Prescription Clearcut patches of the parent stand focusing on releasing advanced regeneration or oak and white pine areas where regen can be expected. if areas without advanced regeneration are selected scarification, herbicide as well as planting of oak, white pine and red pine are available next steps to assist in regeneration of gaps. Maintain a patch size of 1/4 to 1 acre. Avoid hemlock when selecting patch locations. if oak is desired regeneration in gap consider marking a few large, crowned trees for tops over 8 inches to be left to protect regeneration from browsing. Total size should be around 10% of the stand.  
Specs:

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

Acceptable Oak, red pine, white pine, small percentages of aspen, red maple and jack pine are acceptable.  
Regen:

Other Position gaps in areas with minimal aesthetic, and operational effect on the ski trail. ensure any gaps installed in stand to do not increase drifting on trail. any use of the trail for hauling cannot damage the trail ensure trail is fully rehabbed and seeded before the next ski season.  
Comment: Work with PRD and User Groups to mitigate any potential conflict with harvest.

Site Condition

Proposed Start Date: 10/1 /2025



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
38	32273038-Cut	55.9	4310 - Pine, Oak Mix	Sawtimber Well	109	111- 140	Harvest	Group Selection	4319 - Mixed Upland Forest	Uneven- Aged	No
<p><u>Prescription</u> Cut stand using a selection system by marking trees for removal to a residual basal area of 90 SQ FT. focus removal on aspen, birch, and jack pine as well as trees that threaten to fall into the ski trail. Retain all hemlock unless needed for operations or if they threaten to fall into the trail. while marking look for large forked big tooth aspen to retain for nesting and cavity tree habitat. Mark to improve growing conditions of white and red pine present within the stand as well as healthy looking oak.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Oak, white pine, red pine</p> <p><u>Regen:</u></p> <p><u>Other</u> Ensure harvest has minimal aesthetic, and operational effect on the ski trail. ensure tree selection does not increase drifting on trail. any use of the trail for hauling cannot damage the trail ensure trail is fully rehabbed and seeded before the next ski season. Work with PRD and User Groups to mitigate any potential conflict with harvest.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>											

**Approved Treatments:**

5	32273032_island-Cut	10.1	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	103	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Clearcut this stand reserving any white pine, hemlock, and cedar that may be present as well as all maple and any yellow birch.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Aspen, maple, white pine.</p> <p><u>Regen:</u></p> <p><u>Other</u> No trail buffer should be used for the treatment. Use the trail as the treatment boundary. Wood MUST be trucked out to the north through private. Using the ski trails is not an option. Old next step comments: Followup regen survey as per work instructions.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2019</p>											
44	32273044-Monitor	4.3	330 - Low-Density Trees	Nonstocked	0	Unspec ified	Monitoring	Natural Regen (Intermediate)	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> count</p> <p><u>Specs:</u></p> <p><u>Next Step</u></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 /2023</p>											

**Total Treatment** 328.8  
**Acreage Proposed:**

## Report 4 – Site Conditions

Gwinn Mgt. Unit  
Rick Hill : Examiner

Compartment: 273  
Year of Entry: 2026

### Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions			
		With Condition	Not Available		5B	5C	2F	3D
133	83	21	28	Aspen		21	6	23
8	8	0	0	Jack Pine				
6	6	0	0	Low-Density Trees				
67	16	25	26	Mixed Upland Deciduous		25	0	26
122	13	72	37	Natural Mixed Pines	34	38	37	
18	18	0	0	Oak				
21	21	0	0	Planted Mixed Pines				
332	224	82	26	Red Pine		82	15	11
262	207	56	0	Upland Mixed Forest		56	0	
30	30	0	0	Urban				
999	626	255	117	Total Forested Acres	34	221	58	59
	63%	26%	12%	Relative Percent				

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

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Available	5B: Maintain for regeneration purposes	34	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
2	Unavailable	2F: Too steep	58	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Stand is in old forest condition, has a cold water trout stream that runs through it and the majority of it is very steep hillsides.							
3	Unavailable	3D: Recreational / Scenic values	29	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Gwinn Mgt. Unit  
Rick Hill : Examiner

Compartment: 273  
Year of Entry: 2026

4	<b>Available</b>	5C: Delay treatment for age/size class diversity or exceptional site quality	25	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
5	<b>Unavailable</b>	3D: Recreational / Scenic values	31	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
6	<b>Available</b>	5C: Delay treatment for age/size class diversity or exceptional site quality	21	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
7	<b>Available</b>	5C: Delay treatment for age/size class diversity or exceptional site quality	82	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
8	<b>Available</b>	5C: Delay treatment for age/size class diversity or exceptional site quality	38	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
9	<b>Available</b>	5C: Delay treatment for age/size class diversity or exceptional site quality	16	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

**Report 4 – Site Conditions**

**Gwinn Mgt. Unit**  
**Rick Hill : Examiner**

**Compartment: 273**  
**Year of Entry: 2026**

10	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
11	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	31	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
13	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	7	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							



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 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** 122 - Road/Parking Lot Nonstocked 1.1 Unspecified No North parking lot for BBR.

**2** 4123 - Red Oak Poletimber Well 18.5 109 111-140 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	2	Log/Pole	10	86	White Pine	Low	5 - 10 feet	Sapling
Jack Pine	3	Pole/Log	8		Red Maple	Low	5 - 10 feet	Sapling
Paper Birch	2	Pole	6		Red Oak	Low	5 - 10 feet	Sapling
Red Oak	93	Pole/Log/Sap	8	109				

Stand borders Co Rd 553 and also surrounds the north parking lot. Trees in the stand are at or are approaching maturity. This stand is acting as a buffer for the ski trail from 553 at the present time.

**3** 4130 - Aspen Sapling Well 14.7 16 Unspecified N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Oak	15	Log/Pole	10	
Red Maple	20	Sapling	1	
Quaking Aspen	65	Sapling	1	16

Stand harvested in spring of 2008 by Roy Nelson, Jr. & Son's, #32-319-07-01, BBR Trail Sale. All oak was left. The southern part of the stand was scarified with a Brakke patch scarifier and planted with red and jack pine at a rate of approx. 600 tpa.(FTP 32-718).

**4** 4131 - Aspen, Oak Sapling Well 11.3 16 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	35	Sapling	1	
Bigtooth Aspen	40	Sapling	1	16
Red Oak	25	Pole	8	92

Stand harvested in spring of 2008 by Roy Nelson, Jr. & Son's, #32-319-07-01 (BBR Trail Sale). All oak were left. Stand was patch scarified in spring of 2009 with a Brakke patch scarifier and planted at a rate of approx. 600 tpa with 2-0 jack and red pine. The red pine was planted along the trail, the jack pine in the remainder. Aspen and red maple sprouts are scattered throughout the stand. A survival survey completed in May 2010 found 228 live seedlings per acre of the planted pine. Stand is now primarily aspen.

**5** 4191 - Mixed Upland Deciduous with Conifer Sawtimber Well 10.2 103 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	15	Pole/Log	8	103	Hazelnut (Beaked)	Low	< 5 feet	Tall Shrub
Bigtooth Aspen	15	Log/Pole	12		Balsam Fir	Medium	5 - 10 feet	Sapling
Paper Birch	10	Pole/Log	8		Red Maple	Medium	10 - 20 feet	Sapling
Red Pine	15	XLog/Log	18		White Pine	Low	< 5 feet	Sapling
White Pine	10	XLog/Log	18	111				
Red Maple	15	Pole	7					
Sugar Maple	12	Pole	8					

Stand is heavy to aspen (both big tooth and quaking), two pockets of hardwood in the southeast part of the stand. There is a pocket of white pine in the southwest that was it's own stand during previous inventories. The entire Wildcat loop is within this stand and part of the Superior loop is as well.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
6	4310 - Pine, Oak Mix	Sawtimber Well	77.9	58	141-170	N/A	Stand was disked and seeded to red pine between 1964-66 as a pilot project for hardwood to red pine conversion. Stand is a mix of red pine, oak, and big tooth aspen. Jack pine and red maple are present in the stand but are lesser components.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Paper Birch		5	Log/Pole	10		Red Pine		
Jack Pine		5	Log/Pole	10		Red Maple		
Bigtooth Aspen		5	Log/Pole	10		White Pine		
Red Pine		42	Log/Pole	10	58			
White Pine		10	Log/Pole	12				
Red Maple		8	Sapling/Pole	4				
Red Oak		25	Log/Pole	10				
7	4130 - Aspen	Sapling Well	8.7	16	1-50	N/A	Stand harvested in spring of 2008 by Roy Nelson, Jr. & Son's #32-319-07-01 (BBR Trail Sale). All oak were left. Some jack pine were planted in the northern part of this stand as well as red pine along the ski trail.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>			
Bigtooth Aspen		75	Sapling	1	16			
Red Oak		15	Pole	8	92			
Red Maple		10	Sapling	1				
10	4130 - Aspen	Sapling Well	7.7	26	Unspecified	N/A	Stand harvested in 1998, Comp 273, (TS #025-96-02). All trees that would yield one or more 100" pulp stick, except oak, cherry, and red and white pine, were cut. There are now pole size big tooth aspen, oak, and some pine over an aspen understory.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Bigtooth Aspen		60	Sapling/Pole	4	26	Hazelnut (Beaked)		
Red Oak		15	Pole/Sapling	6		Medium		
Red Maple		25	Sapling/Pole	2		< 5 feet		
11	42220 - Natural Jack Pine	Sapling Well	7.5	23	Unspecified	N/A	Stand harvested in 1998, Comp 273, (TS #25-96-02). This stand is essentially a bowl. Only jack pine containing 3 or more 100" pulp sticks were cut. Stand is now a jack pine sapling stand with pockets of poles. The Wolverine loop is within this stand.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>			
Red Pine		2	Sapling	0				
Jack Pine		95	Sapling/Pole	3	23			
Quaking Aspen		3	Sapling	1				
12	122 - Road/Parking Lot	Nonstocked	18.9		Unspecified	No		
13	122 - Road/Parking Lot	Nonstocked	9.1		Unspecified	No		
14	42110 - Planted Red Pine	Sawtimber Well	21.2	61	111-140	N/A	The majority of this stand was planted in 1963. A jack pine removal cut was done it 1998, Comp 273, (TS #25-96-02). There are groves of remnant red and white pine here. The trail head for the lighted loop is located within this stand.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Red Oak		2	Pole/Log	8		Red Pine		
White Pine		3	XLog/Log	18	109	Hazelnut (Beaked)		
Red Pine		90	Log/Pole/XLog	14	61	White Pine		
Jack Pine		5	Pole	8		Low		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
16	4130 - Aspen	Poletimber Medium	14.9	103	51-80	N/A	Small aspen stand. Lighted and Wolverine loops within the stand. Aspen is beginning to fall apart.
<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	8		Red Oak	
Red Pine		10	Log	10		Low	
Red Oak		15	Pole/Log	8		Medium	
Quaking Aspen		15	Log/Pole	10		< 5 feet	
Bigtooth Aspen		50	Log/Pole	10	103	Sapling	
Paper Birch		5	Log	10		Tall Shrub	
17	122 - Road/Parking Lot	Nonstocked	1.4		Unspecified	No	Main Parking lot and warming hut for BBR trails.
18	42110 - Planted Red Pine	Poletimber Well	80.3	61	81-110	N/A	This stand was planted in 1963 and has scattered areas of remnant red pine. The jack pine, aspen, and birch were cut from this stand in 1998, (TS #25-96-01) and 2000 C4 (TS #118-99-01). It appears that an old railroad grade runs east-west through this stand.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Red Pine		96	Pole/Log	9	61	White Pine	
Jack Pine		2	Pole	6		Low	
Red Oak		2	Pole/Log	8		5 - 10 feet	
						Sapling	
						Red Oak	
						Low	
						< 5 feet	
						Sapling	
						Red Maple	
						Low	
						5 - 10 feet	
						Sapling	
19	4130 - Aspen	Sapling Well	7.0	24	Unspecified	N/A	Stand was harvested in 2000 (TS #118-99-01) in which the aspen, birch, and jack pine were harvested to release the red pine that was planted in 1963. There are a few scattered red pine within this stand, but it is predominantly big tooth aspen.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>		
Bigtooth Aspen		97	Sapling	1	24		
Red Pine		3	Pole/Sapling	6	58		
20	42290 - Natural Mixed Pine	Poletimber Well	11.8	103	81-110	N/A	Stand is heavy to jack pine with pockets of big tooth aspen and some larger red pine. Red pine is mainly on north end where the stand's change. The Lighted and Wolverine loop's will be affected by any harvests.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Jack Pine		52	Pole/Log	8	103	White Pine	
Red Pine		25	Log	14		Low	
Red Oak		12	Pole/Log	8		5 - 10 feet	
Bigtooth Aspen		7	Log/Pole	10		Sapling	
Quaking Aspen		2	Pole/Log	8		Tall Shrub	
Paper Birch		2	Pole	6		Red Oak	
						Low	
						< 5 feet	
						Sapling	
						Red Pine	
						Low	
						< 5 feet	
						Sapling	
21	4130 - Aspen	Poletimber Well	21.0	55	Unspecified	N/A	Stand was harvested in 1969 by Unto Makela, permit 26-68. Stand is big tooth aspen with scattered oak poles and logs, remnant red and white pine. Heavy balsam understory on east end, this is also where the white birch is present. White pine understory increases as you move east.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Red Oak		8	Log/Pole	10		Red Oak	
Bigtooth Aspen		80	Pole	8	55	Medium	
White Pine		3	XLog	18		5 - 10 feet	
White Pine		2	Pole	6		Sapling	
Red Pine		4	XLog	22		Low	
Paper Birch		3	Log/Pole	10		5 - 10 feet	
						Sapling	
						Tall Shrub	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
22	42210 - Natural Red Pine	Sawtimber Well	98.0	101	111-140	N/A	The predominant species in this stand is red pine. Red oak, white birch, big tooth aspen and jack pine are mixed in as well (mainly in pockets) with some white pine and red maple present as well. The southern portion of this stand is almost pure red pine. White pine regen is present throughout the stand but stocking is quite variable. Some areas it is only 3 feet tall, in other areas (primarily north) it ranges from 5-15 feet. There is also some white spruce and balsam regen present as well throughout the stand. Oak regen is scattered and is primarily in the north and is 3-5 ft. in height. There are standing dead jack pine throughout the stand. Some large red pine snags are present also.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Paper Birch	2	Pole/Log	8		Balsam Fir	Low		< 5 feet	Sapling
Jack Pine	2	Pole	8		Hazelnut (Beaked)	Low		< 5 feet	Tall Shrub
Red Maple	2	Pole	6		White Pine	Medium		5 - 10 feet	Sapling
Red Oak	5	Pole/Log	9		Red Oak	Low		< 5 feet	Sapling
Bigtooth Aspen	5	Log/Pole	10		White Spruce	Low		< 5 feet	Sapling
Red Pine	82	Log/XLog	16	101	Red Maple	Low		5 - 10 feet	Sapling
White Pine	2	XLog	18						
23	42110 - Planted Red Pine	Poletimber Well	75.4	61	81-110	N/A		Stand was planted in 1963 to red pine. There is a fair amount of jack pine mixed throughout this stand; white birch, red oak, some red maple and white pine are present also. The Lighted loop is within this stand. Stand thinned in 2020-2021 by Minerick Logging under Night Lite pine sale.	
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height		Size
Red Oak	2	Pole	6		Red Oak	Low	< 5 feet		Sapling
Paper Birch	2	Pole	6						
Red Pine	86	Log	10	61					
Jack Pine	10	Log	12						
24	4130 - Aspen	Sawtimber Well	22.7	106	81-110	N/A	Mixed stand of mature log and pole size aspen with red pine, oak, and white birch mixed in. A portion of this stand was treated YOE 2011. Part of the Spartan loop is within this stand.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Paper Birch	5	Pole	8		Balsam Fir	Medium		< 5 feet	Sapling
Red Oak	2	Pole/Log	8		Red Oak	Low		< 5 feet	Sapling
Red Pine	11	Log	14		White Spruce	Low		< 5 feet	Sapling
Bigtooth Aspen	80	Log/Pole	12	106	White Pine	Low		Variable	Sapling
Red Maple	2	Pole	6						
25	42140 - Planted Mixed Pine	Poletimber Well	8.4	33	81-110	N/A	Stand harvested in 1990, permit #035-89-1 and planted in the spring of 1991 to red pine FTP C-31-225 at a rate of 900 tpa. Stand is now a mix of red pine and jack pine. Wolverine loop.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
White Pine	2	Sapling/Pole	2						
Red Pine	48	Pole/Sap/Log	5	33					
Jack Pine	50	Pole/Sap/Log	5	33					
26	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	24.9	106	81-110	N/A	An oak understory is present throughout the entire stand as are white and red pine.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
White Pine	8	Log/Pole	10		White Pine	Low		5 - 10 feet	Sapling
Red Maple	6	Pole	6		Red Oak	Medium		5 - 10 feet	Sapling
Red Pine	20	Log/Pole	12		Red Maple	Medium		< 5 feet	Sapling
Jack Pine	5	Pole/Log	8		Red Pine	Low		5 - 10 feet	Sapling
Red Oak	31	Log/Pole	10	106					
Bigtooth Aspen	15	Pole	8						
Paper Birch	15	Pole/Log	8						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
<b>28</b>	4319 - Mixed Upland Forest	Sapling Well	49.2	7	Immature	N/A	Blueberry pine sale cut by Minerick in 2014. Under FTP 32-868 for jack pine/red pine regen. Planted without trenches, red pine planted as natural regen will bring back jack pine. Check at reinventory to see if any more actions are needed to regenerate stand	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>			
Balsam Fir		5	Sapling	1				
Red Oak		15	Sapling	1				
Red Oak		5	Log/XLog	14				
Jack Pine		5	Sapling	1				
Red Pine		45	Sapling	1	7			
Red Pine		5	Log	16				
Bigtooth Aspen		5	Sapling	1				
Red Maple		15	Sapling	1				
<b>30</b>	42140 - Planted Mixed Pine	Sapling Well	5.7	23	1-50	N/A	Stand was planted to red pine in 2001. FTP was for jack pine. Natural jack pine is present throughout the stand and is somewhat more prevalent than the planted red pine. Lighted loop.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>			
Red Pine		2	Log	12				
Jack Pine		55	Sapling	1	23			
Red Pine		43	Sapling	1	23			
<b>31</b>	42141 - Planted Mixed Pine, Mixed Deciduous	Sapling Well	6.7	23	1-50	N/A	Stand harvested in 2001 #119-01-01. FTP C31-430 called for a jack pine planting, however the stand was planted to red pine. There is moderate survival of the red pine. Natural jack pine makes up the majority of the stand however, with some red oak and red maple regenerating as well. Red and white pine as well as red oak were left in this stand and are scattered throughout.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>			
Red Maple		10	Sapling	1				
Paper Birch		2	Sapling/Pole	3				
White Pine		10	Pole/Sapling	5				
Red Pine		28	Sapling/Pole	3				
Red Oak		10	Sapling/Pole	2				
<b>32</b>	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	32.3	103	81-110	N/A	Stand is heavy to aspen (both big tooth and quaking), two pockets of hardwood in the southeast part of the stand. There is a pocket of white pine in the southwest that was it's own stand during previous inventories. The entire Wildcat loop is within this stand and part of the Superior loop is as well.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>			
Bigtooth Aspen		15	Log/Pole	12				
White Pine		10	XLog/Log	18	111			
Red Pine		15	XLog/Log	18				
Hemlock		8	Log/Pole	10				
Paper Birch		10	Pole/Log	8				
Quaking Aspen		15	Pole/Log	8	103			
Red Maple		15	Pole	7				
<b>Sub-Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>				
White Pine		Low	< 5 feet	Sapling				
Balsam Fir		Medium	5 - 10 feet	Sapling				
Hazelnut (Beaked)		Low	< 5 feet	Tall Shrub				
Red Maple		Medium	10 - 20 feet	Sapling				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
<b>33</b>	4319 - Mixed Upland Forest	Sawtimber Well	16.0	101	141-170	N/A	The Superior loop is within this stand. Hemlock could be promoted in the majority of this stand. Soils are slightly better, and hemlock is present in all size classes, sapling, pole and log. Portions of this stand are fairly steep and will most likely never be treated.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Hemlock		10	Pole/Log	8		Red Maple		
Red Oak		10	Log/Pole	10		White Pine		
Bigtooth Aspen		17	Log/Pole	10	101	Hemlock		
Red Pine		30	Log/XLog	16	101	Balsam Fir		
Jack Pine		3	Pole/Log	8				
Red Maple		10	Pole/Log	8				
Paper Birch		15	Pole	7				
White Pine		5	Log	12				
<b>34</b>	42110 - Planted Red Pine	Sawtimber Well	41.3	61	81-110	N/A	Stand harvested under 32-118-16-01 (Husky Wolverine Sale) by Minerick Logging inc. Stand was clearcut with red pine and white pine being left. Hand plant jack pine.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>			
Red Pine		90	Log/Pole	10	61			
Jack Pine		10	Pole/Sapling	6	58			
<b>35</b>	42290 - Natural Mixed Pine	Sawtimber Well	38.1	109	51-80	N/A	This stand is very steep (>40% slope) and the Cedar Creek is at the bottom. Both the Superior and Wildcat loops are on the boundary of this stand.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Bigtooth Aspen		10	Log/Pole	12		Balsam Fir		
Black Spruce		5	Pole	7		White Pine		
White Pine		40	Log/XLog	16				
Red Pine		40	Log/XLog	16	109			
Hemlock		5	Log	12				
<b>36</b>	42290 - Natural Mixed Pine	Sawtimber Well	37.6	101	81-110	N/A	Mixed stand of red oak and pine. Aspen and white birch are minor components. White pine is in the understory, though its density is quite varied. This stand encompasses portions of both the Wolverine and Superior loops.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Red Maple		2	Pole/Sapling	6		White Pine		
Bigtooth Aspen		3	Log/Pole	12		Red Pine		
Paper Birch		8	Log/Pole	10		Red Maple		
Red Pine		42	Log/Pole	12	101	Red Oak		
Red Oak		10	Log/Pole	12	110			
White Pine		15	Log/Pole	12				
Jack Pine		20	Log/Pole	12				





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**37** 42210 - Natural Red Pine Sawtimber Well 15.8 109 111-140 N/A Stand is fairly steep and inoperable (slopes 35-40%).

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Oak	10	Log/Pole	10		Red Maple	Medium	5 - 10 feet	Sapling
Bigtooth Aspen	5	Log/Pole	12		Balsam Fir	Low	5 - 10 feet	Sapling
Paper Birch	5	Pole	7		White Pine	Low	< 5 feet	Pole
White Pine	5	Log/XLog	16		Hazelnut (Beaked)	Low	< 5 feet	Tall Shrub
Red Pine	75	Log/XLog	16	109	White Spruce	Low	5 - 10 feet	Sapling
					Red Oak	Low	< 5 feet	Sapling

**38** 4310 - Pine, Oak Mix Sawtimber Well 102.2 109 111-140 N/A Stand is a mix of oak red and white pine with other minor components. Crossroads trail and husky trail are present within the stand. Trails must be taken into account when treating this stand.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Oak	35	Log/Pole	12	109	Red Pine	Medium	5 - 10 feet	Sapling
Red Maple	5	Pole	8		White Pine	High	5 - 10 feet	Sapling
Hemlock	2	Log/Pole	10		Red Maple	Medium	5 - 10 feet	Sapling
Quaking Aspen	3	Log/Pole	10					
Bigtooth Aspen	5	Log/Pole	10					
Paper Birch	5	Log/Pole	10					
Red Pine	30	Log/Pole	14					
White Pine	15	Log/Pole	14					

**39** 4133 - Aspen, Mixed Pine Sapling Well 12.3 10 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Bigtooth Aspen	22	Sapling	1	
Red Oak	8	Sapling	1	
Quaking Aspen	40	Sapling	1	10
Red Pine	10	Log/Pole	14	
White Pine	5	Log/Pole	16	
Red Maple	10	Sapling	1	
Jack Pine	5	Sapling	1	

**40** 4319 - Mixed Upland Forest Sapling Well 7.7 10 51-80 N/A Cut by Minerick FP in Fall of 2014 BBR North Sale 32-303-11-01.

Canopy Species	% Cover	Size Class	DBH	Age
Bigtooth Aspen	5	Sapling	1	
Paper Birch	5	Sapling	1	
White Pine	16	Pole/Sap/Log	7	
Red Pine	24	Pole/Log/Sap	7	10
Jack Pine	5	Sapling	1	
Red Oak	22	Pole/Sap/Log	7	
Quaking Aspen	15	Sapling	1	10
Red Maple	8	Sapling	1	10



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
41	4130 - Aspen	Sapling Well	6.8	9	Immature	N/A	Blueberry pine sale cut by Minerick in 2014		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>				
White Pine		10	Pole	6					
Red Pine		4	Log	10					
Red Oak		6	Sapling	1					
Quaking Aspen		25	Sapling	1					
Bigtooth Aspen		50	Sapling	1	9				
Red Maple		5	Sapling	1					
42	42250 - Pine, Oak	Poletimber Well	34.4	109	81-110	N/A	Stand harvested under 32-118-16-01 (Husky Wolverine Sale) by Minerick Logging inc. Stand cut using a selection system. Logging provided adequate scarification and residual is too thick to support any other cult work. White pine is seeding in Gaps currently.		
<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 Oak		35	Log/Pole	10	109	Red Maple	Medium	10 - 20 feet	Sapling
Red Pine		30	Log/XLog	14		Red Oak	Medium	5 - 10 feet	Sapling
White Pine		35	Log/XLog	16		White Pine	Medium	10 - 20 feet	Sapling
						Red Pine	Low	5 - 10 feet	Sapling
43	4310 - Pine, Oak Mix	Sapling Well	9.4	4	Immature	N/A	Stand harvested under 32-118-16-01 (Husky Wolverine Sale) by Minerick Logging inc. due to small size plant without trenches under C32-885.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>				
Red Maple		8	Sapling	1					
Bigtooth Aspen		8	Sapling	1					
White Pine		4	Sapling/Pole	1					
Jack Pine		10	Sapling	1					
Red Oak		30	Sapling/Pole	1					
Red Pine		35	Sapling/Pole	1	4				
Quaking Aspen		5	Sapling	1					
44	330 - Low-Density Trees	Nonstocked	5.8	0	Unspecified	4211 - Planted Red Pine	Stand harvested under 32-118-16-01 (Husky Wolverine Sale) by Minerick Logging inc. Stand was clearcut with red pine and white pine being left. Hand plant red pine.		
48	4130 - Aspen	Sawtimber Well	5.8	101	141-170	N/A	A portion of this stand is currently on proposal to be bid out. Some of this stand is very steep terrain and will likely not be harvested. Hemlock's are scattered throughout this 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>
Red Pine		3	Log/XLog	16		White Pine	Low	10 - 20 feet	Sapling
Jack Pine		3	Pole/Log	8		Hemlock	Medium	< 5 feet	Sapling
Red Maple		4	Pole/Log	8		Red Maple	Medium	>20 feet	Pole
Bigtooth Aspen		78	Log/Pole	10	101	Balsam Fir	Medium	>20 feet	Pole
Paper Birch		10	Pole	7					
Hemlock		2	Pole/Log	8					