



Compartment Review Presentation

Gwinn Forest Management Unit

Compartment 32273

Entry Year: 2026

Acreage: 999

County: Marquette

Management Area: Suomi Till and Outwash Plain

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-Ocqueoc 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 1/4 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 subcrops 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 though 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 supression.

Additional Compartment Information:

The following reports from the Inventory are attached:

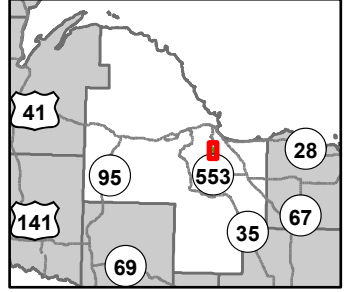
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

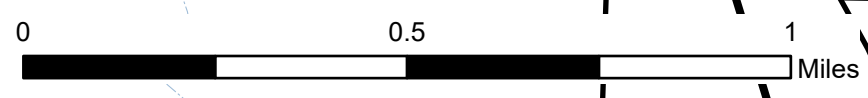
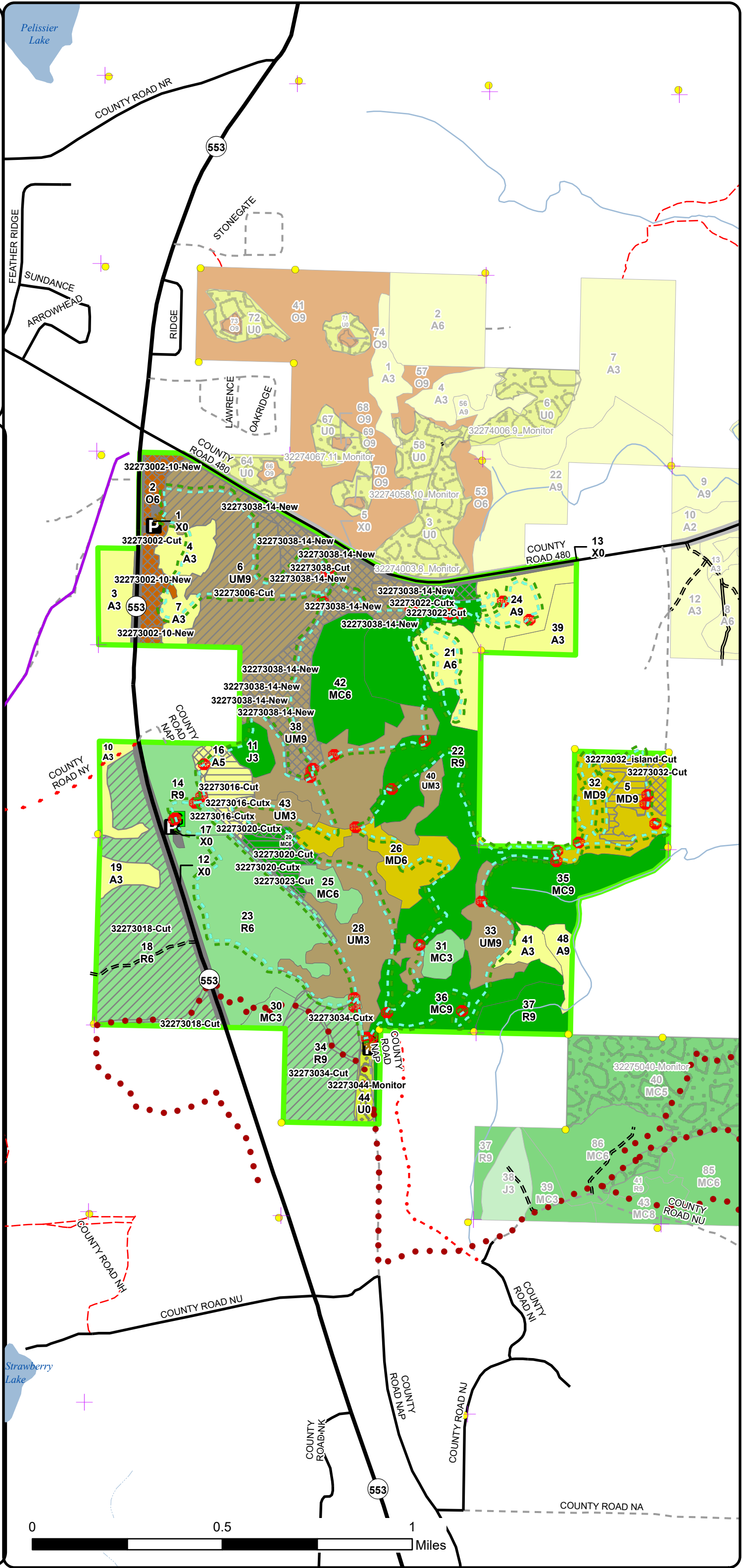
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

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: 10/04/2024
 Map Phase: Post Review

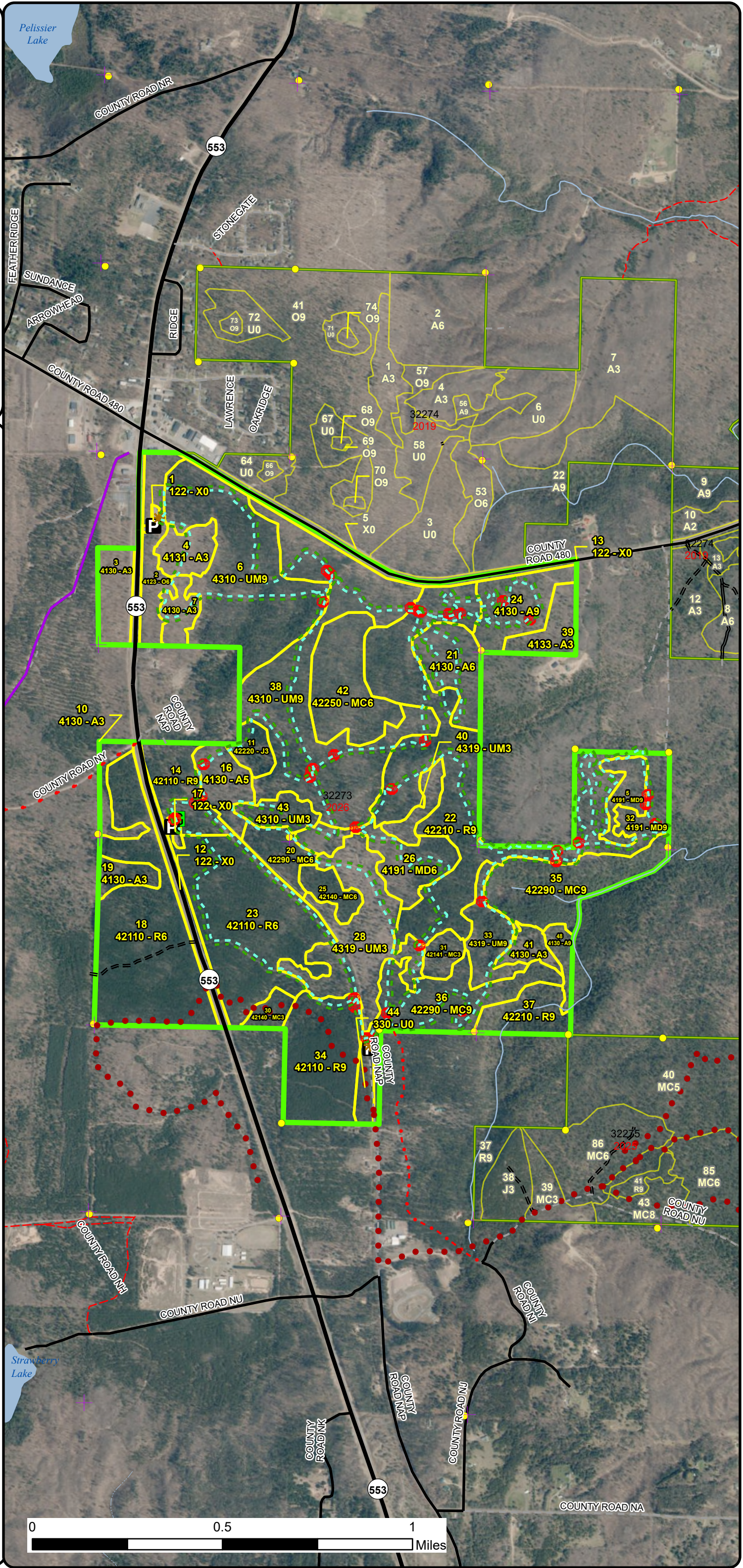
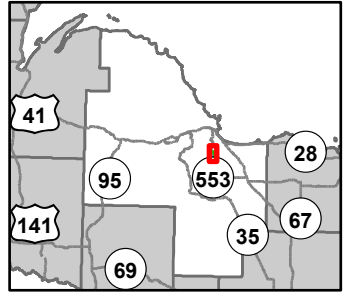


- Designated Equestrian Trails
- Designated Hiking Pathways
- Designated Snowmobile Trails
- ⊕ Remonumented Section Corners
- Survey Grade Corners
- G Gate
- P Parking Lot
- Sign
- * Trailhead
- DNR - Secondary Forest Road
- == DNR - Forest Access Route
- Federal / State Highway
- Federal / State / County - Paved Road
- - - County - Gravel Road
- - - County - Dirt Road (Seasonal)
- - - Private - Dirt / Gravel Road
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Compartment Boundary
- ▨ Selection (Group, Single Tree)
- ▨ Clearcut (w/Reserves)
- ▨ Thinning (Crown, Low, Systematic)
- ▨ Regeneration Survey
- 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

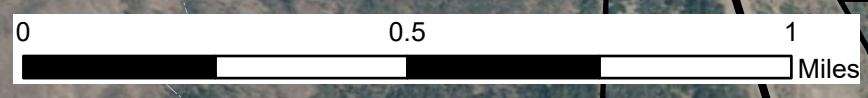


Stand Boundary Map

Compartment: 32273
 T47N, R25N, Sec: 22, 23, 26, 27
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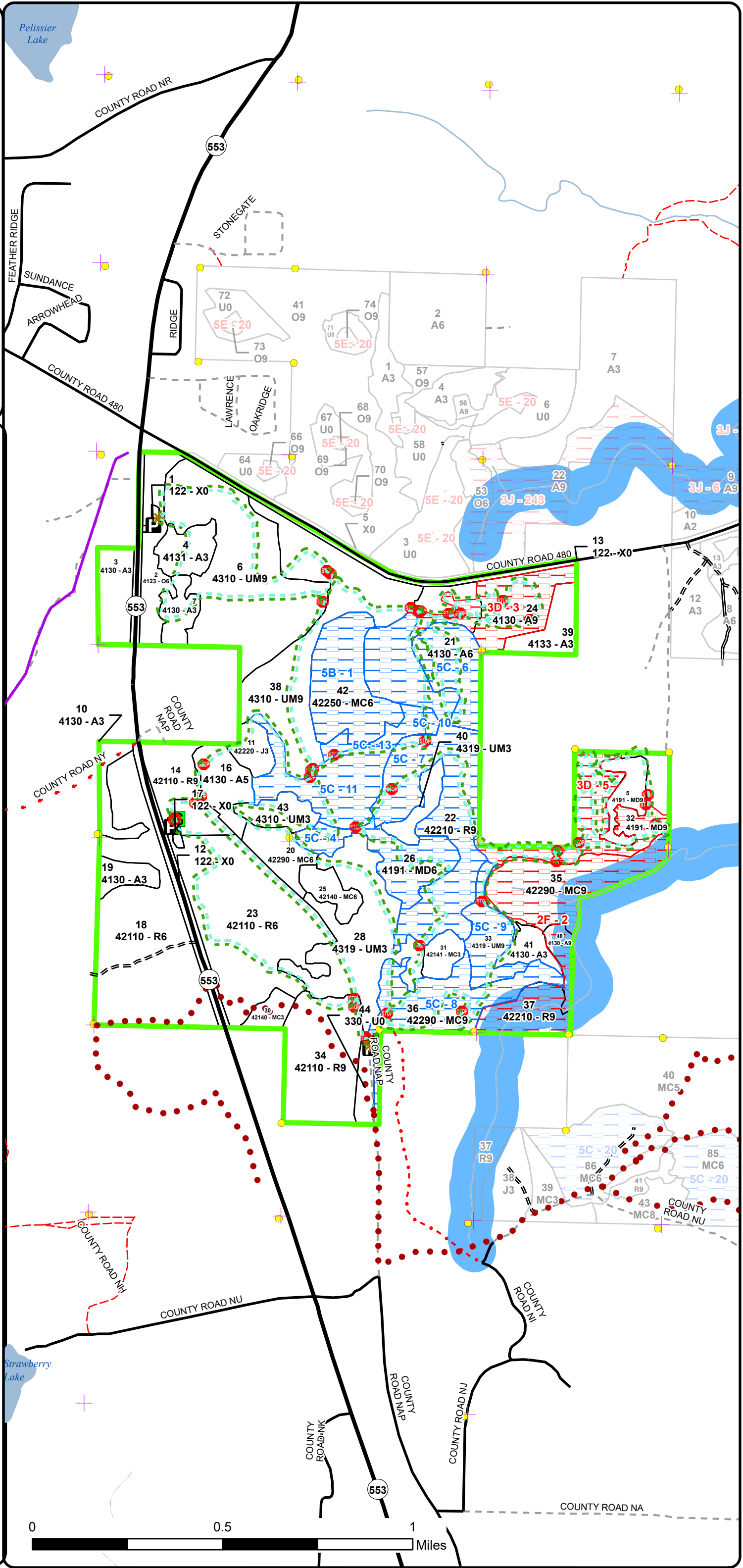
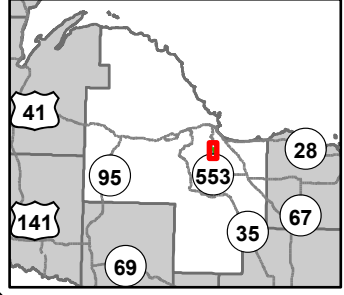


- Designated Equestrian Trails
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- 422 - Natural Pines
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- 330 - Low Density Trees



Special Conservation Areas & Site Conditions Map

Compartment: 32273
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 Outwash Plain
 YOE: 2026
 Acres: 999.4 GIS Calculated
 Examiner: Rick Hill
 Map Revised: 10/04/2024
 Map Phase: Post Review



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- - - County - Dirt Road (Seasonal)
- - - Private - Dirt / Gravel Road
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Compartment Boundary
- 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
- Available w/ Constraints
- Unavailable
- Stand Boundaries
- 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
Total	37	66	55	35	8	0	99	218	0	0	0	484	0	0	0	0	0	0	999



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
Total	34	98	0	0	0	193	0	0	0	325

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
Total	325	15	15	0	0	8	220	0	0	583



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:

2	32273002-10-New	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>											
2	32273002-Cut	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>											
6	32273006-Cut	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>											



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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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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20	32273020-Cut	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

20	32273020-Cutx	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

22	32273022-Cut	5.0	42210 - Natural Pine	Red 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
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22	32273022-Cutx	0.4	42210 - Natural Red Pine	Sawtimber Well	101	111-140	Harvest	Clearcut	4221 - Natural Red Pine	Even-Aged	No
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Prescription Specs: 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.

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

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

Other Comment: 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.

Site Condition:

Proposed Start Date: 10/1 /2025

23	32273023-Cut	2.7	42110 - Planted Red Pine	Poletimber Well	61	81-110	Harvest	Group Selection	4211 - Planted Red Pine	Uneven-Aged	No
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Prescription Specs: 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 Treatments: Monitoring, Natural Regen (Re-Inventory)

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

Other Comment:

Site Condition:

Proposed Start Date: 10/1 /2025

32	32273032-Cut	6.3	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	103	81-110	Harvest	Group Selection	411 - Northern Hardwood	Even-Aged	No
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Prescription Specs: 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

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

Acceptable Regen: Mixed northern hardwood, aspen, mixed spruce, fir, white pine.

Other Comment: 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.

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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34	32273034-Cut	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 Specs: Red pine second thinning mark stand to approximately 100 SQ FT marking trees for removal. Mark to improve overall stand quality and spacing.

Next Step Treatments:

Acceptable Regen:

Other Comment:

Site Condition:

Proposed Start Date: 10/1 /2025

34	32273034-Cutx	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 Specs: Red pine second thinning mark stand to approximately 100 SQ FT marking trees for removal. Mark to improve overall stand quality and spacing.

Next Step Treatments:

Acceptable Regen:

Other Comment:

Site Condition:

Proposed Start Date: 10/1 /2025

38	32273038-14-New	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 Specs: 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.

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

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

Other Comment: 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.

Site Condition:

Proposed Start Date: 10/1 /2025



Standard

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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38	32273038-Cut	55.94310 - Pine, Oak Mix	Sawtimber Well	109	111-140	Harvest	Group Selection	4319 - Mixed Upland Forest	Uneven-Aged	No
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Prescription 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.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Oak, white pine, red pine

Regen:

Other 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.

Site Condition:

Proposed Start Date: 10/1 /2025

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
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Prescription Clearcut this stand reserving any white pine, hemlock, and cedar that may be present as well as all maple and any yellow birch.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen, maple, white pine.

Regen:

Other 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.

Site Condition:

Proposed Start Date: 10/1 /2019

44	32273044-Monitor	4.3	330 - Low-Density Trees	Nonstocked	0	Unspecified	Monitoring	Natural Regen (Intermediate)	4211 - Planted Red Pine	Even-Aged	No
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Prescription count

Specs:

Next Step

Treatments:

Acceptable Red pine

Regen:

Other Percent to Treat = 100%

Comment:

Site Condition:

Proposed Start Date: 10/1 /2023

Total Treatment 328.8
Acres 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		Acres Not Available		Dominant Site Conditions			
		With Condition				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
Comments:							
2	Unavailable	2F: Too steep	58	Unspecified	Unspecified	Unspecified	Unspecified
Comments: 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
Comments:							

Report 4 – Site Conditions

Gwinn Mgt. Unit
Rick Hill: Examiner

Compartment: 273
Year of Entry: 2026



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

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

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



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																																																									
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	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.																																																									
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3	4130 - Aspen	Sapling Well	14.7	16	Unspecified	N/A	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	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	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.																																																									
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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.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Red Maple		8	Sapling/Pole	4		Red Pine		
Red Oak		25	Log/Pole	10		White Pine		
Paper Birch		5	Log/Pole	10		Red Maple		
Jack Pine		5	Log/Pole	10		Density		
White Pine		10	Log/Pole	12		Avg. Height		
Red Pine		42	Log/Pole	10	58	Size		
Bigtooth Aspen		5	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.	
Canopy Species		% Cover	Size Class	DBH	Age			
Bigtooth Aspen		75	Sapling	1	16			
Red Maple		10	Sapling	1				
Red Oak		15	Pole	8	92			
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.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Red Maple		25	Sapling/Pole	2		Hazelnut (Beaked)		
Bigtooth Aspen		60	Sapling/Pole	4	26	Density		
Red Oak		15	Pole/Sapling	6		Avg. Height		
						Size		
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.	
Canopy Species		% Cover	Size Class	DBH	Age			
Quaking Aspen		3	Sapling	1				
Red Pine		2	Sapling	0				
Jack Pine		95	Sapling/Pole	3	23			
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 in 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.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Jack Pine		5	Pole	8		Hazelnut (Beaked)		
Red Pine		90	Log/Pole/XLog	14	61	Density		
Red Oak		2	Pole/Log	8		Avg. Height		
White Pine		3	XLog/Log	18	109	Size		



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.
		Canopy Species	% Cover	Size Class	DBH	Age	
		Quaking Aspen	15	Log/Pole	10		
		Paper Birch	5	Log	10		
		Bigtooth Aspen	50	Log/Pole	10	103	
		Red Pine	10	Log	10		
		Red Maple	5	Pole	8		
		Red Oak	15	Pole/Log	8		
		Sub-Canopy Species	Density	Avg. Height	Size		
		Red Oak	Low	< 5 feet	Sapling		
		Hazelnut (Beaked)	Medium	< 5 feet	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.
		Canopy Species	% Cover	Size Class	DBH	Age	
		Red Oak	2	Pole/Log	8		
		Jack Pine	2	Pole	6		
		Red Pine	96	Pole/Log	9	61	
		Sub-Canopy Species	Density	Avg. Height	Size		
		Red Maple	Low	5 - 10 feet	Sapling		
		Red Oak	Low	< 5 feet	Sapling		
		White Pine	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.
		Canopy Species	% Cover	Size Class	DBH	Age	
		Red Pine	3	Pole/Sapling	6	58	
		Bigtooth Aspen	97	Sapling	1	24	
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.
		Canopy Species	% Cover	Size Class	DBH	Age	
		Jack Pine	52	Pole/Log	8	103	
		Red Oak	12	Pole/Log	8		
		Paper Birch	2	Pole	6		
		Bigtooth Aspen	7	Log/Pole	10		
		Quaking Aspen	2	Pole/Log	8		
		Red Pine	25	Log	14		
		Sub-Canopy Species	Density	Avg. Height	Size		
		White Pine	Low	< 5 feet	Sapling		
		Red Pine	Low	< 5 feet	Sapling		
		Hazelnut (Beaked)	Low	< 5 feet	Tall Shrub		
		Red Oak	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.
		Canopy Species	% Cover	Size Class	DBH	Age	
		White Pine	3	XLog	18		
		Red Pine	4	XLog	22		
		Paper Birch	3	Log/Pole	10		
		Bigtooth Aspen	80	Pole	8	55	
		White Pine	2	Pole	6		
		Red Oak	8	Log/Pole	10		
		Sub-Canopy Species	Density	Avg. Height	Size		
		White Pine	Medium	5 - 10 feet	Sapling		
		Hazelnut (Beaked)	Low	< 5 feet	Tall Shrub		
		Red Oak	Medium	5 - 10 feet	Sapling		
		Balsam Fir	Low	< 5 feet	Sapling		



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
Red Maple	2	Pole	6		Hazelnut (Beaked)	Low		< 5 feet	Tall Shrub
Bigtooth Aspen	5	Log/Pole	10		White Pine	Medium		5 - 10 feet	Sapling
Red Oak	5	Pole/Log	9		Red Maple	Low		5 - 10 feet	Sapling
Red Pine	82	Log/XLog	16	101	Red Oak	Low		< 5 feet	Sapling
Jack Pine	2	Pole	8		Balsam Fir	Low		< 5 feet	Sapling
White Pine	2	XLog	18		White Spruce	Low		< 5 feet	Sapling
Paper Birch	2	Pole/Log	8						
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
Paper Birch	2	Pole	6		Red Oak	Low	< 5 feet		Sapling
Red Pine	86	Log	10	61					
Red Oak	2	Pole	6						
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
Red Pine	11	Log	14		Red Oak	Low		< 5 feet	Sapling
Red Oak	2	Pole/Log	8		Balsam Fir	Medium		< 5 feet	Sapling
Red Maple	2	Pole	6		White Spruce	Low		< 5 feet	Sapling
Paper Birch	5	Pole	8		White Pine	Low		Variable	Sapling
Bigtooth Aspen	80	Log/Pole	12	106					
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
Red Pine	48	Pole/Sap/Log	5	33					
White Pine	2	Sapling/Pole	2						
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
Red Oak	31	Log/Pole	10	106	Red Pine	Low		5 - 10 feet	Sapling
Paper Birch	15	Pole/Log	8		Red Maple	Medium		< 5 feet	Sapling
Bigtooth Aspen	15	Pole	8		White Pine	Low		5 - 10 feet	Sapling
Red Pine	20	Log/Pole	12		Red Oak	Medium		5 - 10 feet	Sapling
Red Maple	6	Pole	6						
White Pine	8	Log/Pole	10						
Jack Pine	5	Pole/Log	8						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
28	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
Canopy Species		% Cover	Size Class	DBH	Age		
Balsam Fir		5	Sapling	1			
Jack Pine		5	Sapling	1			
Red Pine		45	Sapling	1	7		
Red Maple		15	Sapling	1			
Red Oak		15	Sapling	1			
Bigtooth Aspen		5	Sapling	1			
Red Pine		5	Log	16			
Red Oak		5	Log/XLog	14			
30	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.
Canopy Species		% Cover	Size Class	DBH	Age		
Red Pine		43	Sapling	1	23		
Jack Pine		55	Sapling	1	23		
Red Pine		2	Log	12			
31	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.
Canopy Species		% Cover	Size Class	DBH	Age		
Red Oak		10	Sapling/Pole	2			
Paper Birch		2	Sapling/Pole	3			
Jack Pine		40	Sapling	1	23		
Red Maple		10	Sapling	1			
White Pine		10	Pole/Sapling	5			
32	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.
Canopy Species		% Cover	Size Class	DBH	Age		
Red Pine		15	XLog/Log	18			
White Pine		10	XLog/Log	18	111		
Bigtooth Aspen		15	Log/Pole	12			
Sugar Maple		12	Pole	8			
Red Maple		15	Pole	7			
Quaking Aspen		15	Pole/Log	8	103		
Paper Birch		10	Pole/Log	8			
Sub-Canopy Species		Density	Avg. Height	Size			
Hazelnut (Beaked)		Low	< 5 feet	Tall Shrub			
Red Maple		Medium	10 - 20 feet	Sapling			
White Pine		Low	< 5 feet	Sapling			
Balsam Fir		Medium	5 - 10 feet	Sapling			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
33	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.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Red Maple		10	Pole/Log	8		Red Maple		
Bigtooth Aspen		17	Log/Pole	10	101	Medium		
Red Oak		10	Log/Pole	10		Low		
White Pine		5	Log	12		10 - 20 feet		
Hemlock		10	Pole/Log	8		Medium		
Paper Birch		15	Pole	7		< 5 feet		
Jack Pine		3	Pole/Log	8		Sapling		
Red Pine		30	Log/XLog	16	101	Medium		
						>20 feet		
						Pole		
34	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.	
Canopy Species		% Cover	Size Class	DBH	Age			
Jack Pine		10	Pole/Sapling	6	58			
Red Pine		90	Log/Pole	10	61			
35	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.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Bigtooth Aspen		10	Log/Pole	12		Balsam Fir		
Red Pine		40	Log/XLog	16	109	Low		
Black Spruce		5	Pole	7		White Pine		
White Pine		40	Log/XLog	16		Low		
Hemlock		5	Log	12		5 - 10 feet		
						Sapling		
						Sapling		
36	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.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Bigtooth Aspen		3	Log/Pole	12		Red Oak		
Paper Birch		8	Log/Pole	10		Low		
Jack Pine		20	Log/Pole	12		Medium		
Red Oak		10	Log/Pole	12	110	10 - 20 feet		
Red Pine		42	Log/Pole	12	101	Sapling		
Red Maple		2	Pole/Sapling	6		Low		
White Pine		15	Log/Pole	12		Medium		
						5 - 10 feet		
						Sapling		



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
White Pine	5	Log/XLog	16		White Pine	Low	< 5 feet	Pole
Red Pine	75	Log/XLog	16	109	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 Spruce	Low	5 - 10 feet	Sapling
Red Oak	10	Log/Pole	10		Hazelnut (Beaked)	Low	< 5 feet	Tall Shrub
					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
Quaking Aspen	3	Log/Pole	10		Red Maple	Medium	5 - 10 feet	Sapling
White Pine	15	Log/Pole	14					
Bigtooth Aspen	5	Log/Pole	10					
Paper Birch	5	Log/Pole	10					
Red Pine	30	Log/Pole	14					
Hemlock	2	Log/Pole	10					

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

Canopy Species	% Cover	Size Class	DBH	Age
Jack Pine	5	Sapling	1	
Red Pine	10	Log/Pole	14	
Quaking Aspen	40	Sapling	1	10
White Pine	5	Log/Pole	16	
Red Oak	8	Sapling	1	
Bigtooth Aspen	22	Sapling	1	
Red Maple	10	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
Quaking Aspen	15	Sapling	1	10
Red Pine	24	Pole/Log/Sap	7	10
Bigtooth Aspen	5	Sapling	1	
Jack Pine	5	Sapling	1	
Red Maple	8	Sapling	1	10
Paper Birch	5	Sapling	1	
Red Oak	22	Pole/Sap/Log	7	
White Pine	16	Pole/Sap/Log	7	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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41 4130 - Aspen Sapling Well 6.8 9 Immature N/A Blueberry pine sale cut by Minerick in 2014

Canopy Species	% Cover	Size Class	DBH	Age
Bigtooth Aspen	50	Sapling	1	9
White Pine	10	Pole	6	
Red Oak	6	Sapling	1	
Quaking Aspen	25	Sapling	1	
Red Maple	5	Sapling	1	
Red Pine	4	Log	10	

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.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Oak	35	Log/Pole	10	109	White Pine	Medium	10 - 20 feet	Sapling
Red Pine	30	Log/XLog	14		Red Oak	Medium	5 - 10 feet	Sapling
White Pine	35	Log/XLog	16		Red Pine	Low	5 - 10 feet	Sapling
					Red Maple	Medium	10 - 20 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.

Canopy Species	% Cover	Size Class	DBH	Age
Bigtooth Aspen	8	Sapling	1	
Jack Pine	10	Sapling	1	
Red Oak	30	Sapling/Pole	1	
Red Maple	8	Sapling	1	
Quaking Aspen	5	Sapling	1	
Red Pine	35	Sapling/Pole	1	4
White Pine	4	Sapling/Pole	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.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	3	Log/XLog	16		White Pine	Low	10 - 20 feet	Sapling
Hemlock	2	Pole/Log	8		Hemlock	Medium	< 5 feet	Sapling
Paper Birch	10	Pole	7		Balsam Fir	Medium	>20 feet	Pole
Jack Pine	3	Pole/Log	8		Red Maple	Medium	>20 feet	Pole
Bigtooth Aspen	78	Log/Pole	10	101				
Red Maple	4	Pole/Log	8					