

Compartment Review Presentation

Newberry Forest Management Unit

Compartment 42068

Entry Year: 2026

Acreage: 2,284

County: Chippewa

Management Area: Grand Marais Moraine Complex

Stand Examiner: Anthony Ciaramitaro

Legal Description:

T50N, R06W, Sections 33-34; T49N, R06W, Sections 3, 4, 9, 10, 15, 16, 21 & 22

Identified Planning Goals:

Maintain the health of jack pine and aspen stands by proper management. Try to enhance longer lived species, and leave strategic retention when harvesting, near the ski trail.

Soil and topography:

High rolling terrain is comprised of Deer Park fine sand, with a small inclusion of Rousseau fine sand. Transitional ridges and swales on the north end are Wainola-Kinross-Rousseau complex, Kinross-Dawson complex, Kinross-Au Gres complex and Croswell sand. The very poorly drained low ground is Markey-Kinross-Au Gres complex, and Markey and Carbondale mucks. An old beach ridge/escarpment bisects the compartment between high dry soils and low wet soils.

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

State land abuts to the west and south. An isolated private 40 lies within the compartment and private lands are adjacent to the north and east, both large acreage and small tracts. The town of Paradise is located near the southeast corner.

Unique Natural Features:

A poor fen has been identified within the compartment. Osprey are known to nest here.

Archeological, Historical, and Cultural Features:

There are known concerns within the compartment. All proposed management activities have taken these concerns into consideration.

Special Management Designations or Considerations:

Poor fen area is now to be a new ERA. This area was purchased by state game funds. M-123 is a designated Scenic Heritage Route. Paradise ski trail loops through potential treatments.

Watershed and Fisheries Considerations:

The Betsy (Shelldrake) River skirts the northern edge of the compartment and is not a designated trout stream in this section. This section of river does however receive a small run of steelhead (rainbow trout) in the spring. To protect these areas in accordance with BMPs, a minimum 100-foot, plus 5 feet per 1% increase in slope, riparian management zone is recommended along the Betsy (Shelldrake) River.

Wildlife Habitat Considerations:

Compartment 68 lies in the Grand Marais Moraine Complex Management Area. This compartment has large jack pine and oak components on the western edge with good overall diversity of cover types in the compartment consisting of stands of oak, mixed conifer, mixed deciduous, aspen, and lowland and marsh complexes in the southern and northern areas. Current vegetation patterns are similar to what was expected during pre-settlement times. In pine forested ecosystem, maintaining a variety of age and size classes and maintaining as much structural diversity as possible in managed stands will be important to achieving wildlife objectives. Retaining hard mast producing species and hemlock will provide food sources, nest and den trees, and improve stand diversity. Wildlife species potentially using this compartment include white-tailed deer, snowshoe hare, spruce grouse, ruffed grouse, black bear, gray wolves, and moose.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of lacustrine (lake) sand and gravel. There is insufficient data to determine the glacial drift thickness. The Precambrian Jacobsville Sandstone subcrops below the glacial drift. The Jacobsville was used as a building stone in the past. No known potential exists for commercial oil & gas production in this part of the state, and there is no known potential for occurrences of commercial deposits of metallic or critical minerals in this area. No active sand/gravel pits are known to exist in the area. There may be some limited potential for development of sand resources within the compartment on the uplands on the west side. No current State mineral leasing activity exists in the area.

Vehicle Access:

Access is good for the upland stands, with M-123 bordering to the south, Old Paradise Road crosses in the southern portion. Station North Road borders the western edge and dead-ends at Betsy River.

Survey Needs:

The center of section 15 may be needed.

Recreational Facilities and Opportunities:

Snowmobile Trail #8 crosses the southern part of the compartment. Snowmobile Trail #45 follows along the south side of M-123. Paradise pathway cross-country ski trail usually grooms one loop north of M-123. Another longer loop has been abandoned. A joint snowmobile trail and cross-country ski trail parking lot is located just south of the compartment, on the south side of M-123.

Fire Protection:

Compartment is in the Whitefish Zone Dispatch Area. Response time and Jack Pine cover type lends itself for potentially large fires. Access is good in southwest portion because of the drier sandy ground. The northeast portion will have access challenges because of escarpment and soft ground. Risk to private property could be high.

Additional Compartment Information:

Jack pine budworm has made its way through the compartment, with several salvage sales conducted 10 years ago. There are a couple jack pine stands that are overmature that need to be treated to help avoid additional outbreaks. Several treatments are recommended along the ski trail. These stands are overmature and need treatment before they are lost. Efforts will be made to leave longer lived species along the trail, and place retention strategically for visual and weather (drifting snow) aspects of the ski trail. M-123 is a designated Scenic Heritage Route.

The following reports from the Inventory are attached:

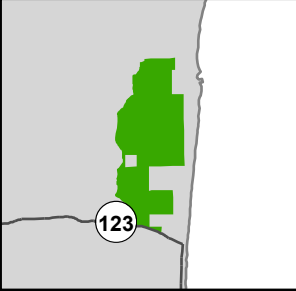
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

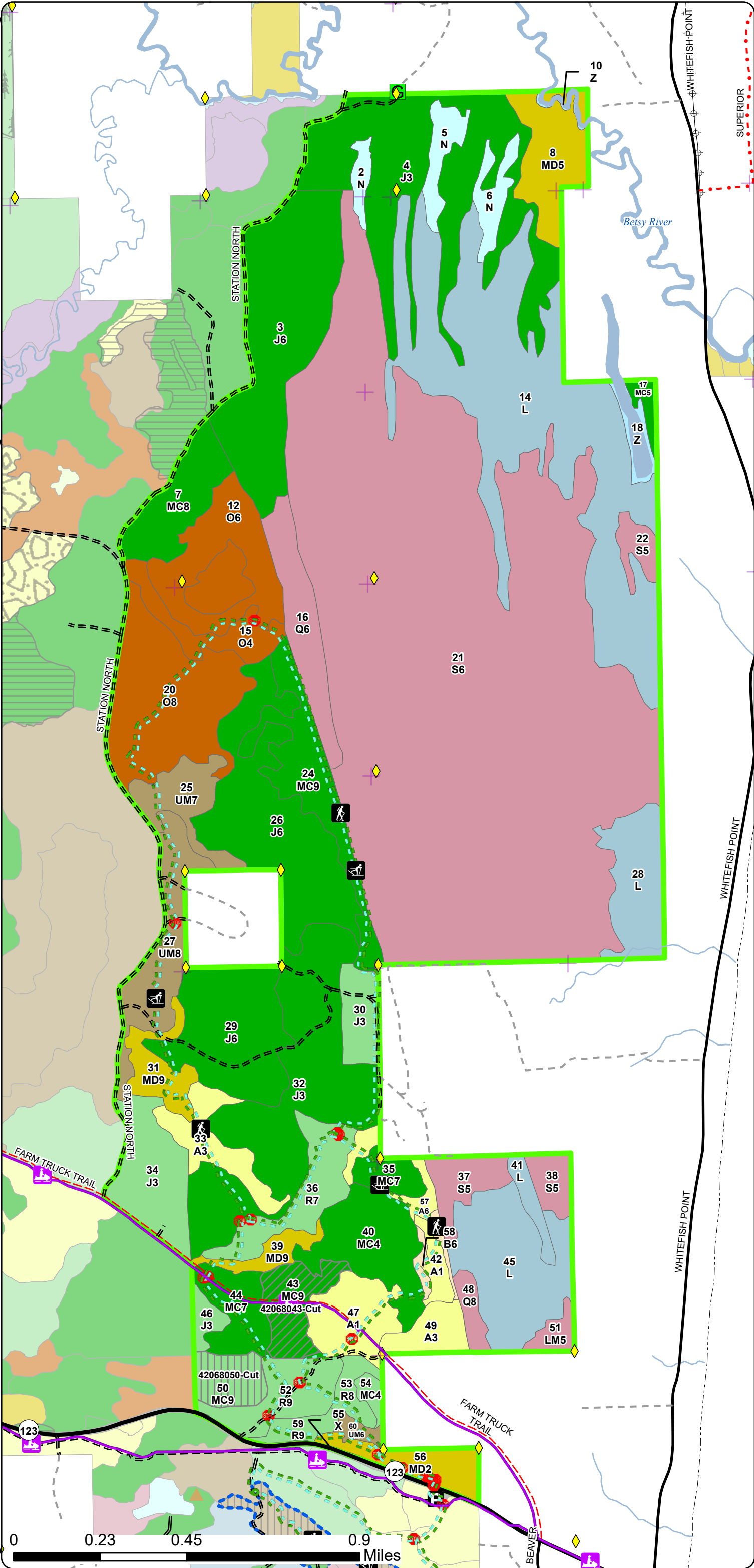
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 42068
T49N, R6W, Sec: 3, 4, 9, 10, 15, 16, 21, 22
County: Chippewa
Unit: Newberry
Mgmt. Area: Grand Marais Moraine Complex
Complex
YOE: 2026
Acres: 2,284.19 GIS Calculated
Examiner: Anthony Ciaramitaro
Date Exported: 6/24/2025
Map Phase: Current Phase

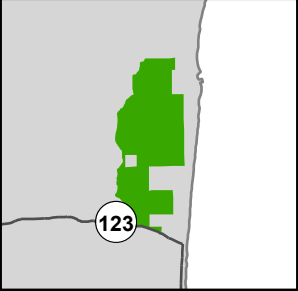


- Remonumented Section Corners
- Survey Grade Corners
- Berms
- Gate
- Parking Lot
- Sign
- Trailhead
- Designated Hiking Pathways
- Designated Snowmobile Trails
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State Highway
- Federal / State / County - Paved Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Powerline
- Perennial River
- Lakes and Rivers
- Counties
- Compartment Boundary
- Treatments with Site Conditions
- Shelterwood
- Thinning
- Clearcut
- Shelterwood
- Planting (tree species)
- Monitoring - Regeneration
- 412 - Oak Types
- 413 - Aspen
- 414 - Other Upland Deciduous
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 430 - Upland Mixed Forest
- 500 - Water
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 122 - Road/Parking Lot
- 622 - Lowland Shrub
- 623 - Emergent Wetland

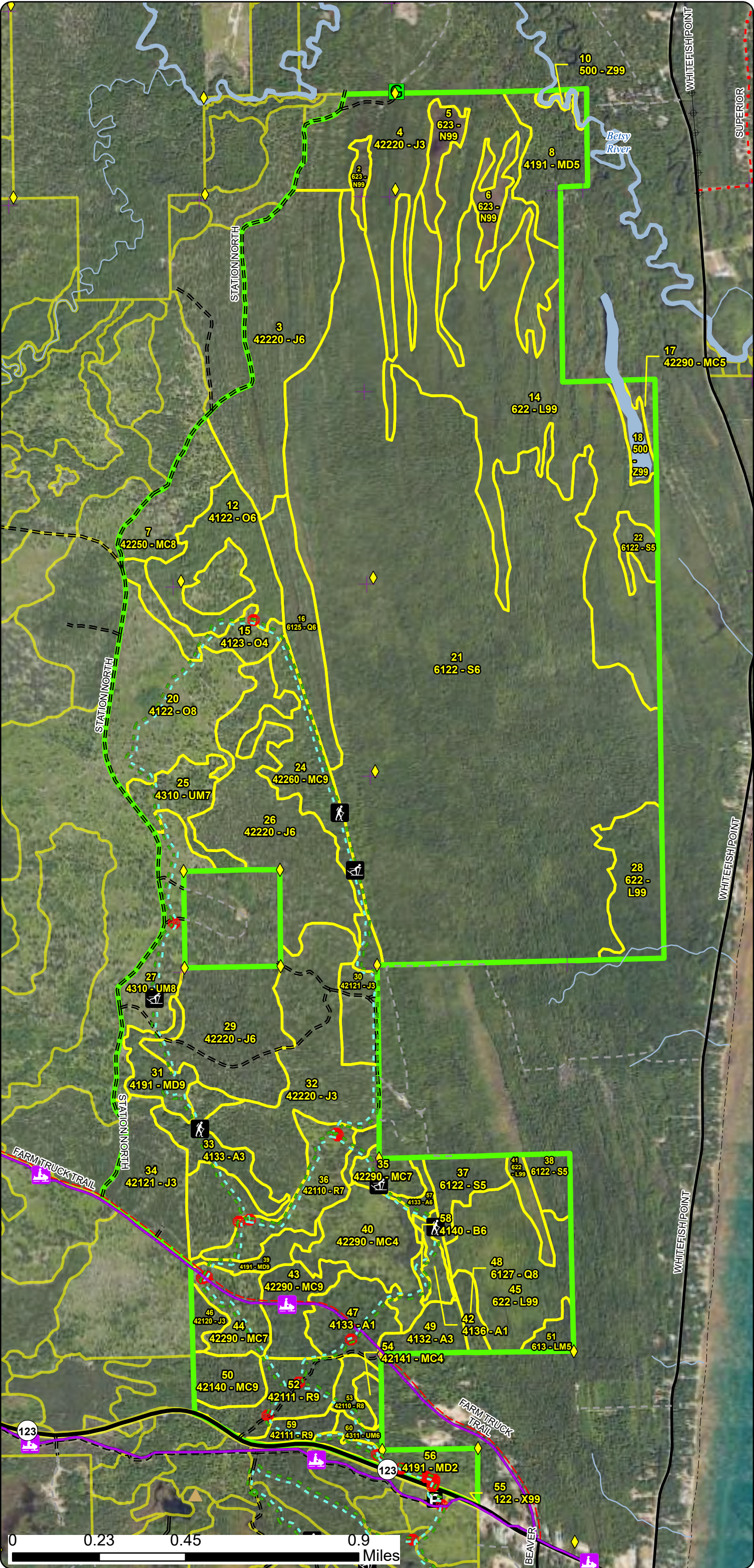


Stand Boundary
Map

Compartment: 42068
T49N, R6W, Sec: 3, 4, 9, 10, 15, 16,
21, 22
County: Chippewa
Unit: Newberry
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Complex
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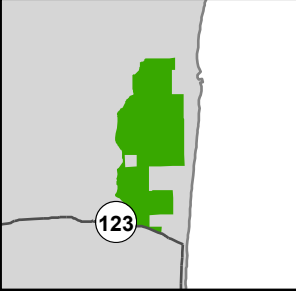


- Remonumented Section Corners
- Survey Grade Corners
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- Gate
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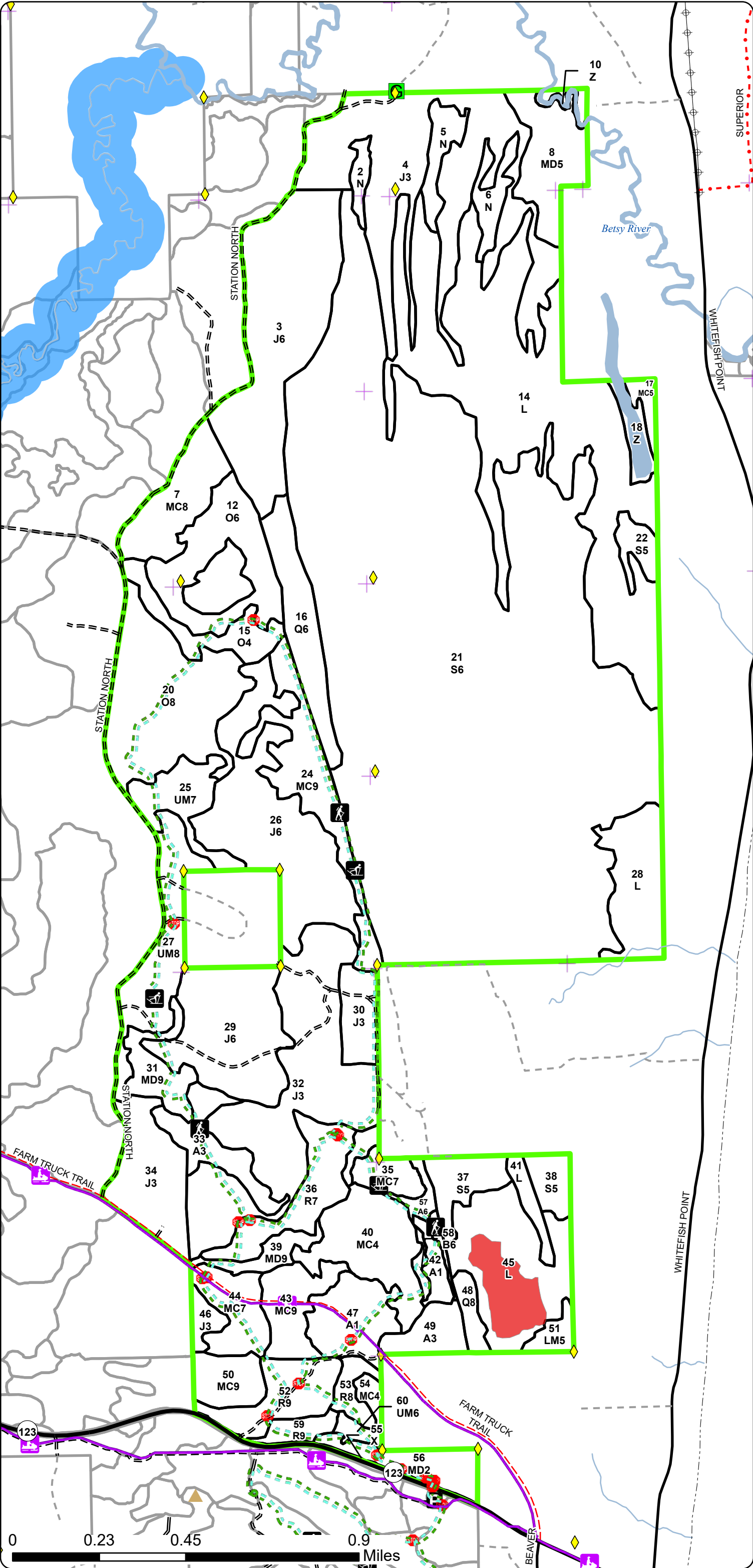


Special Conservation Areas
& Site Conditions Map

Compartment: 42068
T49N, R6W, Sec: 3, 4, 9, 10, 15, 16,
21, 22
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- Perennial River
- Lakes and Rivers
- Counties
- Compartment Boundary
- Stand Boundaries
- Ecological Reference Areas
- Cold Water Streams
- High Priority Trout Stream Buffer



Report 1 – Total Acres by Cover Type and Age Class

Newberry Mgt. Unit

Compartment 68

Year of Entry 2026

Anthony Ciaramitaro: Examiner

Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Unseen-Aged	Total
Aspen	0	33	0	14	21	0	0	0	0	8	0	0	0	0	0	0	0	0	76
Jack Pine	0	0	0	178	106	156	82	0	0	0	0	0	0	0	0	0	0	0	522
Lowland Conifers	0	0	0	0	0	0	0	0	0	0	0	7	31	0	0	0	0	0	38
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	6
Lowland Shrub	309	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	309
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	0	0	711	26	0	0	0	0	0	0	737
Marsh	28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	28
Mixed Upland Deciduous	0	0	19	0	0	0	0	0	0	44	17	0	0	0	0	0	0	0	79
Natural Mixed Pines	0	0	0	0	0	0	50	0	0	92	27	0	0	0	0	0	0	0	169
Oak	0	0	0	0	0	0	0	0	0	106	43	0	0	0	0	0	0	0	149
Paper Birch	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	5
Planted Mixed Pines	0	0	0	0	0	0	0	0	0	20	0	0	0	0	0	0	0	0	20
Red Pine	0	0	0	0	0	0	0	55	0	15	0	0	0	0	0	0	0	0	70
Upland Mixed Forest	0	0	0	0	0	0	0	0	0	60	4	0	0	0	0	0	0	0	64
Urban	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Water	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11
Total	351	33	19	192	127	156	132	55	0	350	802	39	31	0	0	0	0	0	2286

Report 2 – Treatment Summary

Newberry Mgt. Unit
Year of Entry: 2026

Acres of Harvest

Compartment 68
Total Compartment Acres: 2,284

Commercial Harvest - 37
Harvests with Site Condition - 0
Next Step Harvest - 0
Habitat Cut - 0

Cover Type by Harvest Method

		Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Oversory Removal	Salvage	Other	Total Acres
Natural Mixed Pines		0	0	0	0	21	0	0	0		21
Planted Mixed Pines		0	0	0	0	16	0	0	0		16
Total		0	0	0	0	16	21	0	0		37

Proposed and Next Step Treatments by Method

		Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non Forest Mgt.	Total Acres
Current		37	0	0	0	0	0	0	0		37
Total		37	0	0	0	0	0	0	0		37

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

50	42068050-Cut	15.5	42140 - Planted Mixed Pine	9	87	81-110	Harvest	Shelterwood	42290 - Natural Mixed Pine	Cutting Record	No
<u>Prescription</u> Thin overstory to ~50BA. Remove all jack pine. If necessary in other areas, create gaps where possible over 1 acre in size and mark through <u>Specs:</u> red and white pine. Leave area retention where terrain dictates. Buffer trail by 50 feet. leave all oak and hemlock. Follow natural red pine guidance. <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> red pine, white pine, jack pine, red oak <u>Regen:</u> <u>Other</u> Use caution when harvesting near trail. Make sure there is adequate signage. Mark to cut. Use stand to NE for access and Farm Truck Road. <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2025											
43	42068043-Cut	21.2	42290 - Natural Mixed Pine	9	99	171-200	Harvest	Thinning	429 - Mixed Upland Conifers	Cutting Record	No
<u>Prescription</u> Thin stand to approx. 110 BA and create clear-cut gaps where possible over 1 acre in size following natural pine guidance. Leave one area of <u>Specs:</u> retention where terrain dictates (large hill in center of stand). Mark through remaining stand to reach target BA. Buffer trail by 50 feet. Retain more BA near the trail and cut more in the interior of the stand. Leave all oak for mast production to benefit wildlife species. <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> Natural Red & White Pine <u>Regen:</u> <u>Other</u> Use caution when harvesting near trail. Make sure there is adequate signage. Use West farm truck trail for access. <u>Comment:</u> Non systematic plots showed an approximate BA of 210-250 in some areas. Tree cores date approximately 100+ years old. <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2025											

Total Treatment 36.7
Acreage Proposed:

Report 4 – Site Conditions

Newberry Mgt. Unit
Anthony Ciaramitaro: Examiner

Compartment: 68
Year of Entry: 2026



Availability for Management

Total Acres	Acres Available	Acres Available With Condition	Acres Not Available		Dominant Site Conditions									
Acres	Available	With Condition	Not Available		5B	5C	2F	2G	2H	3A	3J	3K	5D	
63	54	0	8	Aspen			7					2		
522	522	0	0	Jack Pine										
38	0	0	38	Lowland Conifers					38					
6	0	0	6	Lowland Mixed Forest				6						
306	0	0	307	Lowland Shrub						19			287	
737	0	0	737	Lowland Spruce/Fir				19	718					
28	28	0	0	Marsh										
75	0	0	75	Mixed Upland Deciduous			42			20	14			
134	53	71	10	Natural Mixed Pines		71	5	5						
150	74	75	0	Oak		75								
5	0	0	5	Paper Birch			5							
19	16	0	4	Planted Mixed Pines			4							
47	29	0	18	Red Pine			18							
63	38	22	4	Upland Mixed Forest	22		4							
3	3	0	0	Urban										
11	11	0	0	Water										
2,208	828	168	1,212	Total Forested Acres	22	147	83	30	756	39	14	2	287	
	38%	8%	55%	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	Dominant Site Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable		5D: Unproductive forest land	240	Unspecified	Unspecified	Unspecified	Unspecified
Comments:								
2	Unavailable		2F: Too steep	15	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
Comments:								
Slopes for ski trail aesthetics. Includes retention pockets for timber sale.								

Report 4 – Site Conditions

Newberry Mgt. Unit

Anthony Ciaramitaro: Examiner

Compartment: 68

Year of Entry: 2026



3	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	30	2B: Unknown if access through adjacent landowner(s) is possible	Unspecified	Unspecified	Unspecified
Comments: Small stands with questionable access.							
4	Unavailable	2F: Too steep	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	702	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Shelf ridge (dune swale) following the ski trail.							
6	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	31	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	2F: Too steep	25	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	31	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Newberry Mgt. Unit
Anthony Ciaramitaro: Examiner

Compartment: 68
Year of Entry: 2026



9	Unavailable	2F: Too steep	38	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
Comments: Slopes and ski trail aesthetics. Includes retention pockets from timber sale. Portions may be harvestable at a later date.							
10	Unavailable	3A: Conservation values incompatible with harvest at this time	19	Unspecified	Unspecified	Unspecified	Unspecified
Comments: ERA							
11	Unavailable	5D: Unproductive forest land	47	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
12	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
13	Unavailable	2F: Too steep	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
14	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	12	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments: Includes old oxbows. Most white birch is dead or dying. May be too far gone to do any management, except let mother nature take its' course.							

Report 4 – Site Conditions

Newberry Mgt. Unit
Anthony Ciaramitaro: Examiner

Compartment: 68
Year of Entry: 2026



15	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	40	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
17	Unavailable	3K: Rare or unique landforms	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
19	Available	5B: Maintain for regeneration purposes	22	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Low current BA for management							
21	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	43	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Lots of mature oak but low BA.							
22	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	32	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
23	Unavailable	3A: Conservation values incompatible with harvest at this time	20	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Small stand with difficult access and muck soils. Delay treatment until feasible.							

Report 4 – Site Conditions

Newberry Mgt. Unit

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24	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	16	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
25	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	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

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																													
2	623 - Emergent Wetland	Unspecified	5.3			No																																														
3	42220 - Natural Jack Pine	Poletimber Well	97.3	41	111-140	N/A	1/24 Previous stand inventory is adequate. jack pine stand with Residual red pine over top of the canopy. jp Between the Pole and sapling size class. Has some rolling dune swale lake superior sea bed topography Fairly wet pine site. Cut in 1979 (#22-79A), scarified in 1982 (FTP 42-37), seeded in 1983 (FTP 42-153). Regeneration check done 10/30/86 - 913 t/ac; second stocking check 8/21/89 - still good. Had budworm damage in 2004. On edge between sap/pole stand. Nice JP. RP scattered thru stand with some WP. Spruce mainly on east side.																																													
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Red Pine</td><td>8</td><td></td><td>14</td><td></td></tr><tr><td>Red Pine</td><td>5</td><td>Log</td><td>4</td><td></td></tr><tr><td>Paper Birch</td><td>2</td><td>Log</td><td>3</td><td></td></tr><tr><td>Black Spruce</td><td>8</td><td>Sapling</td><td>5</td><td></td></tr><tr><td>White Pine</td><td>2</td><td></td><td>14</td><td></td></tr><tr><td>Jack Pine</td><td>75</td><td>Sapling</td><td>5</td><td>41</td></tr></table>								Canopy Species	% Cover	Size Class	DBH	Age	Red Pine	8		14		Red Pine	5	Log	4		Paper Birch	2	Log	3		Black Spruce	8	Sapling	5		White Pine	2		14		Jack Pine	75	Sapling	5	41										
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4	42220 - Natural Jack Pine	Sapling Well	120.6	26	Unspecified	N/A	1/24Previous inventory adequate, sapling stand. Also noting a pocket of older red pine in western corner is stand which is technically part of the Comp 63 to the West, divided by the station north road. Pockets of balsam poplar; mainly on east side. Cut in 1997-98 (#29-96 Paradise Ridges JP). Scarified in 1998 under FTP 42-430. Stocking survey completed 5/15/2003 - 1,160 trees per acre.																																													
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Balsam Poplar</td><td>2</td><td>Log</td><td>1</td><td></td></tr><tr><td>White Pine</td><td>5</td><td></td><td>12</td><td></td></tr><tr><td>White Pine</td><td>3</td><td>Log</td><td>2</td><td></td></tr><tr><td>Jack Pine</td><td>68</td><td>Log</td><td>2</td><td>26</td></tr><tr><td>Red Pine</td><td>2</td><td></td><td>14</td><td></td></tr><tr><td>Red Pine</td><td>2</td><td>Log</td><td>2</td><td></td></tr><tr><td>Red Maple</td><td>8</td><td>Log</td><td>1</td><td></td></tr><tr><td>Paper Birch</td><td>10</td><td>Log</td><td>1</td><td></td></tr></table>								Canopy Species	% Cover	Size Class	DBH	Age	Balsam Poplar	2	Log	1		White Pine	5		12		White Pine	3	Log	2		Jack Pine	68	Log	2	26	Red Pine	2		14		Red Pine	2	Log	2		Red Maple	8	Log	1		Paper Birch	10	Log	1	
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Jack Pine	68	Log	2	26																																																
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Red Pine	2	Log	2																																																	
Red Maple	8	Log	1																																																	
Paper Birch	10	Log	1																																																	
5	623 - Emergent Wetland	Unspecified	11.3			No																																														
6	623 - Emergent Wetland	Unspecified	10.9			No																																														
7	42250 - Pine, Oak	Sawtimber Medium	31.0	86	81-110	N/A	1/24 Previous inventory is adequate. stand has much higher residual basal area of red pine and oak. Then the stands below it that were also harvested in 2008. Two-storied stand. Varying densities of residual RP. Rolling terrain. Cut in 2008 (#33-06 - Paradise Salvage #3) as a JP salvage sale, scarified in 2008 and seeded in 3/2009 (FTP 42-678). 2012 regen check found 456 trees/acre. All oak, red pine, white pine and paper birch were left when cut.																																													
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Paper Birch</td><td>5</td><td>Seedling</td><td>8</td><td></td><td>White Pine</td><td>Low</td><td>Variable</td><td>Variable</td></tr><tr><td>Red Pine</td><td>50</td><td></td><td>14</td><td>86</td><td>Jack Pine</td><td>Low</td><td>< 5 feet</td><td>< 5 feet</td></tr><tr><td>Red Oak</td><td>35</td><td>Seedling</td><td>8</td><td></td><td>Red Oak</td><td>Medium</td><td>10 - 20 feet</td><td>10 - 20 feet</td></tr><tr><td>White Pine</td><td>10</td><td></td><td>12</td><td></td><td>Bigtooth Aspen</td><td>Medium</td><td>10 - 20 feet</td><td>10 - 20 feet</td></tr></table>								Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	Paper Birch	5	Seedling	8		White Pine	Low	Variable	Variable	Red Pine	50		14	86	Jack Pine	Low	< 5 feet	< 5 feet	Red Oak	35	Seedling	8		Red Oak	Medium	10 - 20 feet	10 - 20 feet	White Pine	10		12		Bigtooth Aspen	Medium	10 - 20 feet	10 - 20 feet
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																
8	4191 - Mixed Upland Deciduous with Conifer	Poletimber Medium	33.7	87	81-110	N/A	1/24Snowshoed to these surrounding stands, including stand 8. The majority of the forest here is Thick swamp filled with bog laurel and labrador tea with jack pine throughout, infeasible during the summer. Must be hard frozen with snow for access. several old logging roads were found running North and South that were being maintained by a trapper. The stand has turned to Maple and many of the Birch are dead. Several large red oak and mixed pine spruce throughout.Most white birch is dead or dying. May be too far gone to do any management, except let mother nature take its' course. Appears to be transitional ground.																																																																
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10	500 - Water	Unspecifed	1.9			No	Betsy River																																																																
12	4122 - Oak, Pine	Poletimber Well	43.1	91	1-50	N/A	1/24 JP cut out of part of stand in 2008 (#33-06) due to budworm. A few JP still present.Now a mix of red oak and residual red pine is various heights, very mixed stand.																																																																
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14	622 - Lowland Shrub	Unspecified	208.0			No	Old lake dune swale lowland. Labrador tea, sphagnum moss fen with low density tree cover. Includes some sparse ridges of timber (mainly black spruce). Limited access, and wet conditions.																																																																
15	4123 - Red Oak	Poletimber Poor	32.2	86	1-50	N/A	Merged with similar 3 ac stand to the north to appease mapping standards. stand 13 comments below "1/24Previous inventory is adequate, may recommend merging with stand twelve in the future due to variability in both stands. Two-storied stand. Varying densities of residual RO & RP. Rolling terrain. Cut in 2008 (#33-06 - Paradise Salvage #3) as a JP salvage sale, scarified in 2008 and seeded in 3/2009 (FTP 42-678). 2012 regen check found 456 trees/acre. "1/24Previous stand inventory is adequate large residual red oak, with second cohort of aspen, oak and mixed pine.Two-storied stand. Varying densities of residual RO. Rolling terrain. Cut in 2008 (#33-06 - Paradise Salvage #3) as a JP salvage sale, scarified in 2008 and seeded in 3/2009 (FTP 42-678). 2012 regen check found 456 trees/acre. Old ski trail loop ran thru stand, but has not been maintained in years.																																																																
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16	6125 - Lowland Black Spruce, Jack Pine	Poletimber Well	31.1	111		N/A	Old lake dune swale lowland. Labrador tea, sphagnum moss fen with low density tree cover. Slight ridges of timber on low ground. Below escarpment. Possible old road down escarpment.																																																																
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
17	42290 - Natural Mixed Pine	Poletimber Medium	5.1	99	81-110	N/A	Low ridges of jack pine and spruce with white pine and red pine with no access.
18	500 - Water	Unspecified	9.1			No	Shelldrake river flooding.
20	4122 - Oak, Pine	Sawtimber Medium	74.4	86	1-50	N/A	<p>1/24 Previous inventory adequate. Large amount of residual red oak. Somewhat Savannah- like.</p> <p>On edge between Forested and Non Forested. Two-storied stand. Varying densities of residual RP & RO. Rolling terrain. Cut in 2008 (#33-06 - Paradise Salvage #3) as a JP salvage sale, scarified in 2008 and seeded in 3/2009 (FTP 42-678). 2012 regen check found 456 trees/acre. Old ski trail loop ran thru stand, but has not been maintained in years.</p>
		Canopy Species	% Cover	Size Class	DBH	Age	
		White Pine	5		12		
		Red Oak	70	Seedling	8	86	
		Red Pine	25		12		
		Sub-Canopy Species	Density	Avg. Height	Size		
		White Pine	Low	< 5 feet	< 5 feet		
		Jack Pine	Low	< 5 feet	< 5 feet		
		Red Oak	Medium	Variable	Variable		
		Red Maple	Low	Variable	Variable		
		Bigtooth Aspen	Low	5 - 10 feet	5 - 10 feet		
		Red Pine	Low	< 5 feet	< 5 feet		
21	6122 - Black Spruce	Poletimber Well	702.1	98		N/A	<p>Old lake dune swale lowland. Labrador tea, sphagnum moss fen with low density tree cover. Mainly spruce over cedar of varying densities and sizes. Smaller diameter to the north. Some spruce with mistletoe. Surrounded by ridges to the west and water/private to the east. North trail ski loop passes near south west corner.</p>
		Canopy Species	% Cover	Size Class	DBH	Age	
		Black Spruce	65	Seedling	7	98	
		Northern White Cedar	20	Seedling	5		
		White Pine	10		12		
		Balsam Fir	5	Seedling	7		
		Sub-Canopy Species	Density	Avg. Height	Size		
		Paper Birch	Low	Variable	Variable		
		Black Spruce	Low	Variable	Variable		
		Northern White Cedar	Low	Variable	Variable		
22	6122 - Black Spruce	Poletimber Medium	8.7	91	Unspecified	N/A	Fingers of timber within low marsh type.
24	42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	40.2	86	51-80	N/A	<p>1/24 Stand is a good mix of red oak and natural pine with some mixed deciduous. Ski trail has been maintained. Trees on smaller end of a log size class. Lower BA of log size class trees. Could be treated in the future.</p> <p>Variable stand. Old ski trail loop ran along east edge of stand (bluff edge), but has not been maintained in years.</p>
		Canopy Species	% Cover	Size Class	DBH	Age	
		Red Oak	28		9		
		Red Pine	30		14	86	
		White Pine	15		12		
		Jack Pine	20	Seedling	8	33	
		Paper Birch	2	Seedling	8		
		Bigtooth Aspen	5	Seedling	8		
		Sub-Canopy Species	Density	Avg. Height	Size		
		White Pine	Medium	Variable	Variable		
		Red Oak	Low	Variable	Variable		
		Red Pine	Medium	Variable	Variable		
25	4310 - Pine, Oak Mix	Sawtimber Poor	21.5	89	1-50	N/A	<p>1/24 Previous inventory adequate. Trail has been maintained. Recommended to retain for regeneration purposes and allow second age class to grow. Coming in well.</p> <p>Two-storied stand. Varying densities of residual RP & RO. Rolling terrain. Cut in 2008 (#33-06 - Paradise Salvage #3) as a JP salvage sale, scarified in 2008 and seeded in 3/2009 (FTP 42-678). 2012 regen check found 456 trees/acre. Old ski trail loop ran thru stand, but has not been maintained in years.</p>
		Canopy Species	% Cover	Size Class	DBH	Age	
		Red Pine	40		12	89	
		White Pine	10		12		
		Red Oak	40	Seedling	8	86	
		Paper Birch	10	Seedling	8		
		Sub-Canopy Species	Density	Avg. Height	Size		
		Red Maple	Low	10 - 20 feet	10 - 20 feet		
		Red Oak	Medium	Variable	Variable		
		White Pine	Low	Variable	Variable		
		Jack Pine	Low	< 5 feet	< 5 feet		

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																						
26	42220 - Natural Jack Pine	Poletimber Well	82.0	50	111-140	N/A	1/24jack pine is around Pole size class with scattered residual red pine, white pine and red oak. log sizeCut in 1973-74 (#8-72A), scarified in 1974 (FTP 97)																																																						
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27	4310 - Pine, Oak Mix	Sawtimber Medium	38.0	86	1-50	N/A	1/24																																																						
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28	622 - Lowland Shrub	Unspecified	34.0			No	Old lake dune swale lowland. Labrador tea, sphagnum moss fen with low density tree cover. limited to no access.																																																						
29	42220 - Natural Jack Pine	Poletimber Well	58.3	47	81-110	N/A	1/24																																																						
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Cut in 1976 (#9-76A), scarified 1977 (FTP 42-142). Budworm damage was noted during last inventory (2004). Old ski trail loop ran thru stand, but has not been maintained in years.																																																													
30	42121 - Planted Jack Pine, Mixed Deciduous	Sapling Well	15.3	25	111-140	N/A	1/24Growing well sapling, entering Pole size class.mixed with log size red oak.Cut in 1993 (#17-90 - Station North Remnant sale), scarified in 1994 (FTP 42-330). Scarification failed, machine planted in 2000 (FTP 42-324). Old ski trail loop ran thru stand, but has not been maintained in years.																																																						
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Bigtooth Aspen	10	Log	2																																																										

Stand	Level 4 Cover Type	Size Density			Acres	Stand Age	BA Range	Managed Site	General Comments			
31	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well			16.7	94	81-110	N/A	Variable stand with steep ridges and old ski trail. Contain some large diameter red oak and mature Aspen along the ridge.			
		Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species			Density	Avg. Height	Size
		Jack Pine	15		9		Red Maple			Low	Variable	Variable
		Red Oak	35		9	94						
		Red Pine	20		12							
		Paper Birch	3	Seedling	8							
		Bigtooth Aspen	27		10	94						
32	42220 - Natural Jack Pine	Sapling Well			106.4	34	111-140	N/A	1/24 Stand is very dense jackpine with scattered red pine white pine red oak and Aspen throughout.Southern half of stand: T. sale #10-88 "Old Paradise sale", cut 1990, FTP 42-258 scarified 9/90 - steep ridges with oak were avoided; regeneration check done 9/6/94 - fully stocked. Northern half of stand: T. sale #15-88 "Station North Road" sale cut 1990, FTP42-255 scarified 9/90. Old ski trail loop ran thru stand, but has not been maintained in years.			
		Canopy Species	% Cover	Size Class	DBH	Age						
		Red Pine	15		8							
		Red Oak	5	Seedling	6							
		Bigtooth Aspen	5	Log	3							
		Jack Pine	75	Log	3	34						
33	4133 - Aspen, Mixed Pine	Sapling Well			21.3	34	51-80	N/A	1/24 Moderately steep ridge containing older pine retention from previous harvest and.Mature Aspen.FTP 42-258: scarified 9/90 - steep ridges with oak were avoided (mainly this stand). Regeneration check done 9/6/94 - fully stocked. Old ski trail loop ran thru stand, but has not been maintained in years.			
		Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species			Density	Avg. Height	Size
		Red Pine	15		10		Red Maple			Low	5 - 10 feet	5 - 10 feet
		Red Maple	5	Log	2							
		Bigtooth Aspen	60	Log	3	34						
		Red Oak	5	Seedling	8							
		Jack Pine	15	Log	3							
34	42121 - Planted Jack Pine, Mixed Deciduous	Sapling Well			36.7	25	Immature	N/A	1/24Previous stand inventory is adequate.Jackpine reaching Pole size class several residual trees of Aspen, red pine and red oak.Sale #27-96 "Paradise Jack Pine" - cut spring, 1998. Scarified in June, 1998, and machine planted with 2-0 JP in May, 2000 (FTP # 42-436). Ridge through stand with RP and oak residual.			
		Canopy Species	% Cover	Size Class	DBH	Age						
		Red Pine	10		10							
		White Pine	2		10							
		Jack Pine	60	Log	2	25						
		Red Oak	15	Seedling	6							
		Paper Birch	5	Seedling	6							
35	42290 - Natural Mixed Pine	Sawtimber Poor			10.4	51	1-50	N/A	1/24 Stand has residual basil area of approximately 50 regeneration. Includes species such as red oak, and big tooth Aspen. Harvested areas are regenerating well to aspen, oak and some pine in gaps. Not much along trails other than aspen.			
		Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species			Density	Avg. Height	Size
		Red Pine	50		12	51	Red Pine			Low	>20 feet	>20 feet
		White Pine	40		14		Bigtooth Aspen			High	10 - 20 feet	10 - 20 feet
		Red Oak	10	Seedling	8							
		The north ski trail loop passes thru stand. Clearcut in 2018, leaving all red pine, white pine and oak. Residual RP ~20 BA. Occasional oak and white pine. Ski Trail Mix; #16-16; TCR 9/25/18.										

Stand	Level 4 Cover Type	Size Density			Acres	Stand Age	BA Range	Managed Site	General Comments																																																				
36	42110 - Planted Red Pine	Sawtimber Poor			29.1	61	1-50	N/A	1/24 Stand inventory updated previous inventory adequate to depict stand.																																																				
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37	6122 - Black Spruce	Poletimber Medium			16.1	108		N/A	Below escarpment. Adjacent to trail system.																																																				
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38	6122 - Black Spruce	Poletimber Medium			10.1	109		N/A	Remote stand with little to no access surrounded by fens, ridges and private.																																																				
39	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well			9.5	89	81-110	N/A	12/23 Previous inventory is adequate. Variable sandwich patches of Aspen and Jackpine showing mortality.High ridge with some saddles, but would be difficult logging. Quite variable. The north ski trail loop passes thru stand.																																																				
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40	42290 - Natural Mixed Pine	Unspecified			39.5	57	51-80	N/A	1/24 Harvested areas are regenerating to aspen, oak and some pine in gaps. Not much along trails other than aspen. This stand is regenerating less than surrounding stands but still decent.																																																				
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					Stand was finished being cut fall of 2017 (Ski Trail Mix #16-16); Scarified in late summer 2018 (under FTP 42-903). Stand has considerable amount of residual red pine poles left standing and was not scarified in all areas as to not damage the timber left standing. Stand includes uncut patches left for retention, recreational values and slopes.																																																								
					Fairly pure JP stand. Scattered aspen and red pine. The north ski trail loop passes thru stand.																																																								

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																		
41	622 - Lowland Shrub	Unspecified	7.1			No	Labrador tea, leatherleaf, sphagnum moss type fen with low density trees and poor site quality.																																																		
42	4136 - Aspen, Mixed Conifer	Sapling Poor	6.8	7	1-50	N/A	1/24 Regenerating to big tooth Aspen residual Red and white pine doing well. Ridge runs along west side and escarpment along east edge. The north ski trail loop passes thru stand. Clearcut in 2018, leaving all red pine, white pine and oak. Occasional presence of these species. Ski Trail Mix; #16-16; TCR 9/25/18.																																																		
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43	42290 - Natural Mixed Pine	Sawtimber Well	21.7	99	171-200	N/A	12/23 Large hill in middle of stand. Stand is very dense with mature, red pine and white pine and small component of big tooth aspen, birch and oak. Natural mixed pine stand with some pole size white pine trying to make it to the canopy. Small amount of jack pine in patches.																																																		
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44	42290 - Natural Mixed Pine	Sawtimber Poor	21.1	83	1-50	N/A	12/23 Stand is characterized by large dominate open grown white and red pine scattered throughout with a secondary cohort of codominant Jack pine and big tooth Aspen. Two-storied stand. Cross-country ski trail runs through the stand. Stand harvested as "Paradise Ski Trail Jack Pine", sale #034-06-01, complete 8/7/08. Scarification completed 10/2008 (FTP42-681). Regeneration check summer 2012: Wp = 26 Aspen = 19 JP = 52 RP = 59 RO = 26 TPA = 184.																																																		
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45	622 - Lowland Shrub	Unspecified	59.5			No																																																			
46	42120 - Planted Jack Pine	Sapling Well	5.8	25	Immature	N/A	12/23 Stand is very dense sapling size. Jack pine with dominant large diameter. Red pine white pine and red oak scattered throughout.Sale #27-96 "Paradise Jack Pine" - cut spring, 1998. Scarified in June, 1998, and machine planted with 2-0 JP in May, 2000 (FTP # 42-436)																																																		
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47	4133 - Aspen, Mixed Pine	Sapling Poor			26.3	8	1-50	N/A	1/24 Converted to forested stand previous retention Of red and white pine of varying diameters is about 40 ba. Regenerating vigorously to Aspen in the openings. Harvested areas are regenerating well to aspen and some pine in gaps. Not much along trails other than aspen. Variable density of WP/RP (10 - 80 BA) and varying sizes of WP/RP (4" - 16"). The north ski trail loop passes thru stand. Clearcut in 2017, leaving all red pine, white pine and oak. Ski Trail Mix; #16-16; TCR 9/25/18.																																												
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48	6127 - Lowland Pine	Sawtimber Medium			7.0	109		N/A	Black spruce with white pine and red pine, occassional cedar and tamarack.																																												
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49	4132 - Aspen, Jack Pine	Sapling Well			13.6	26	1-50	N/A	1/24 Stand is two aged and includes over story of residual trees from previous Harvest of white pine red pine and red oak, as well as some Jack pine second age class of mixed deciduous and conifer species.Two-storied stand of RP over A and JP. Sale #31-96 "Five Story Jack Pine". Cut summer 1997. FTP#42-420: scarification completed 6/98. Stocking survey completed 5/15/2003 - 342 trees per acre. Plant 2004?																																												
		<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Red Oak</td><td>5</td><td>Seedling</td><td>8</td><td></td></tr><tr><td>White Pine</td><td>5</td><td>Seedling</td><td>6</td><td></td></tr><tr><td>Jack Pine</td><td>20</td><td>Log</td><td>1</td><td></td></tr><tr><td>Paper Birch</td><td>15</td><td>Log</td><td>2</td><td></td></tr><tr><td>Bigtooth Aspen</td><td>40</td><td>Log</td><td>2</td><td>26</td></tr><tr><td>Red Pine</td><td>15</td><td></td><td>10</td><td>71</td></tr></table>	Canopy Species	% Cover	Size Class	DBH	Age	Red Oak	5	Seedling	8		White Pine	5	Seedling	6		Jack Pine	20	Log	1		Paper Birch	15	Log	2		Bigtooth Aspen	40	Log	2	26	Red Pine	15		10	71																
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50	42140 - Planted Mixed Pine	Sawtimber Well			15.5	87	81-110	N/A	12/23 Park like stand with large diameter. Red pine and smaller jack pine spread throughout including open spaces with no regeneration. several canopy Gaps Filled with Aspen. And Jack pine scattered throughout. T. sale #9-77A - cut 1980. JP on edge between sap and pole.																																												
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51	613 - Lowland Mixed Forest	Poletimber Medium			6.4	109	81-110	N/A	Low land area with muck soil and Labrador tea sphagnum moss herb.																																												
52	42111 - Planted Red Pine, Mixed Deciduous	Sawtimber Well			25.6	67	111-140	N/A	12/23 Previous stand inventory is adequate. Addition of large diameter, white pine in overstory, and majority of stand is now log size and higher basal area. Two-storied stand of RP w/ RO over JP/A. Aspen and jack pine are reaching canopy height. "Bonanaza Jack Pine" sale #11-88 - cut in 1990; sale was never scarified, but there is considerable jack pine regeneration (and pockets of aspen regeneration) with scattered red and white pine. The north ski trail loop passes thru stand.																																												
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																								
53	42110 - Planted Red Pine	Sawtimber Medium	8.2	87	51-80	N/A	12/23 Aspen is regenerating along trails and in opening created by the shelter wood. Previous stand Inventory is accurate.																																								
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Red Pine</td><td>70</td><td></td><td>10</td><td>87</td></tr><tr><td>Red Oak</td><td>5</td><td>Seedling</td><td>8</td><td></td></tr><tr><td>White Pine</td><td>25</td><td></td><td>10</td><td></td></tr></table>			Canopy Species	% Cover	Size Class	DBH	Age	Red Pine	70		10	87	Red Oak	5	Seedling	8		White Pine	25		10		<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>White Pine</td><td>Low</td><td>Variable</td><td>Variable</td></tr><tr><td>Red Pine</td><td>Low</td><td>Variable</td><td>Variable</td></tr><tr><td>Red Oak</td><td>Low</td><td>Variable</td><td>Variable</td></tr><tr><td>Bigtooth Aspen</td><td>Low</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr></table>			Sub-Canopy Species	Density	Avg. Height	Size	White Pine	Low	Variable	Variable	Red Pine	Low	Variable	Variable	Red Oak	Low	Variable	Variable	Bigtooth Aspen	Low	5 - 10 feet	5 - 10 feet	Variable RP densities. Occasional WB and WP. The north ski trail loop passes thru stand. Shelterwood cut in 2018, cutting all jack pine and aspen; leaving red pine, white pine and oak. Ski Trail Mix; #16-16; TCR 9/25/18. FTP 42-903 was written to scarify after harvest but too high of residual BA left and too steep in many places to scarify. This unit was dropped from that FTP. Some aspen should regenerate. Recheck during next inventory.	
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54	42141 - Planted Mixed Pine, Mixed Deciduous	Poletimber Poor	3.8	82	51-80	N/A	12/23 A fair amount of regeneration coming back post harvest lots of mixed hardwood saplings in canopy Gaps. lots of red pine, white pine and older retention intermediate canopy trees such as red oak coming into the canopy. lots of typography.																																								
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55	122 - Road/Parking Lot	Unspecifed	2.9			Yes	M-123 Scenic Heritage Route
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56	4191 - Mixed Upland Deciduous with Conifer	Sapling Medium	18.5	16	1-50	N/A	12/23 Previous stand inventory adequate.Two-storied stand. Stand harvested as "Paradise Ski Trail Jack Pine", sale #034-06-01. Completed 8/7/08. Scarification completed as of 10/10/08 (FTP42-681). Regeneration check needed in 2012. summer 2012: Wp = 26 Aspen = 19 JP = 52 RP = 59 RO = 26 TPA = 184. The north ski trail loop passes thru stand.																																																		
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57	4133 - Aspen, Mixed Pine	Poletimber Well	8.3	82		N/A	The north ski trail loop passes thru stand. Portions of stand that were not cut due to visual/recreational concerns and slope.																																																			
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																											
58	4140 - Other Upland Deciduous	Poletimber Well	4.6	89		N/A	1/24 Previous inventory accurate to depict stand. Ridge and trail limitations.																																											
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59	42111 - Planted Red Pine, Mixed Deciduous	Sawtimber Well	7.2	87	111-140	N/A	12/23 Previous stand inventory adequate would not recommend harvesting due to trail esthetics. high basal area and large diameter trees throughout. older stand with trail maintenance happening.																																											
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60	4311 - Pine, Aspen Mix	Poletimber Well	3.9	93	171-200	N/A	11/23 Previous inventory adequate to depict stand. High basal area mostly red pine and big tooth Aspen. Retain for trail aesthetics.																																											
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