



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:

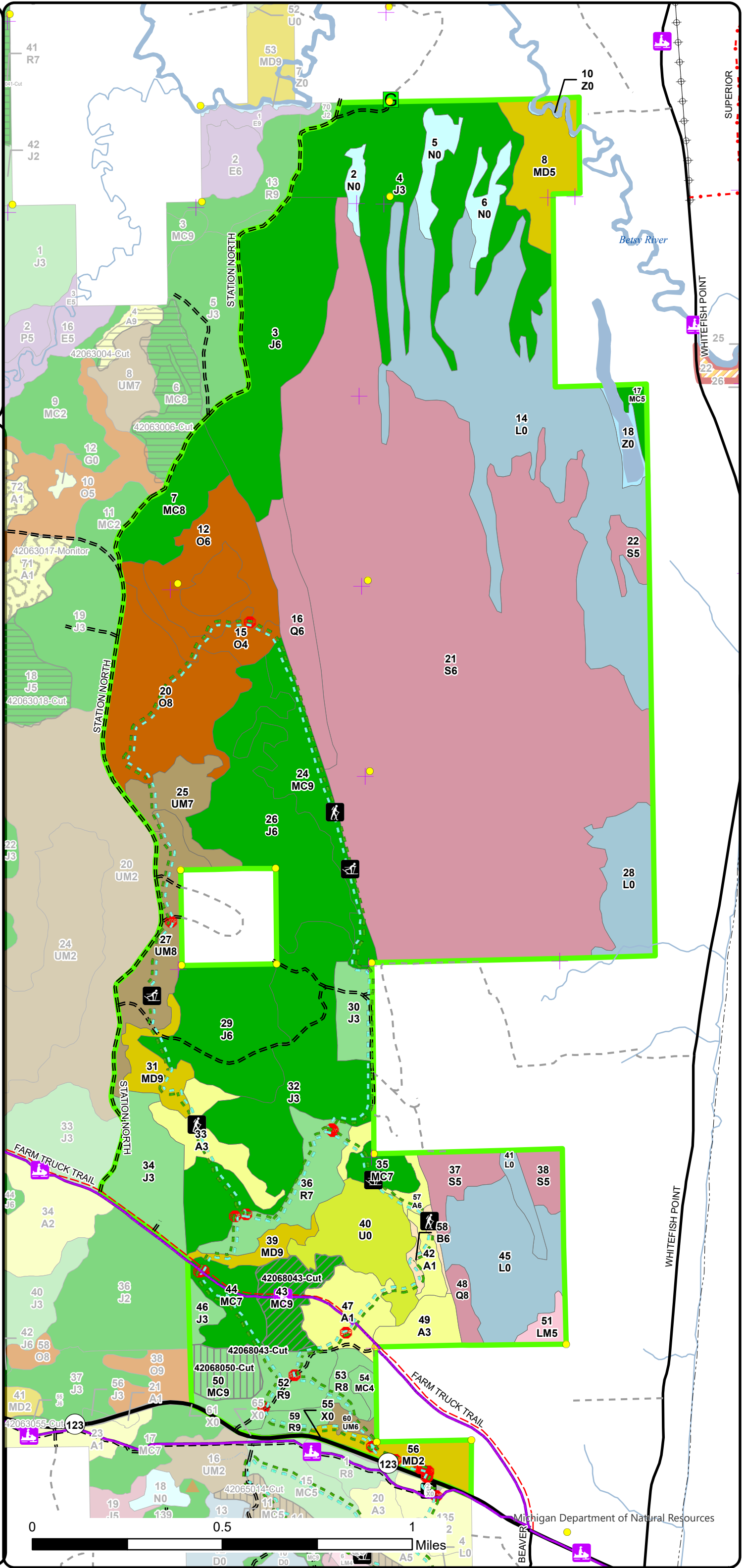
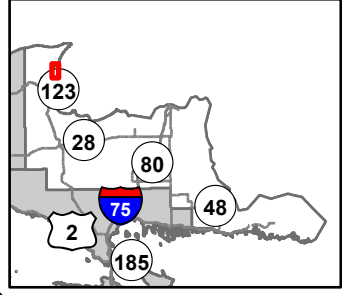
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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
 YOE: 2026
 Acres: 2284.2 GIS Calculated
 Examiner: Anthony Ciaramitaro
 Map Revised: 08/23/2024
 Map Phase: Web Post

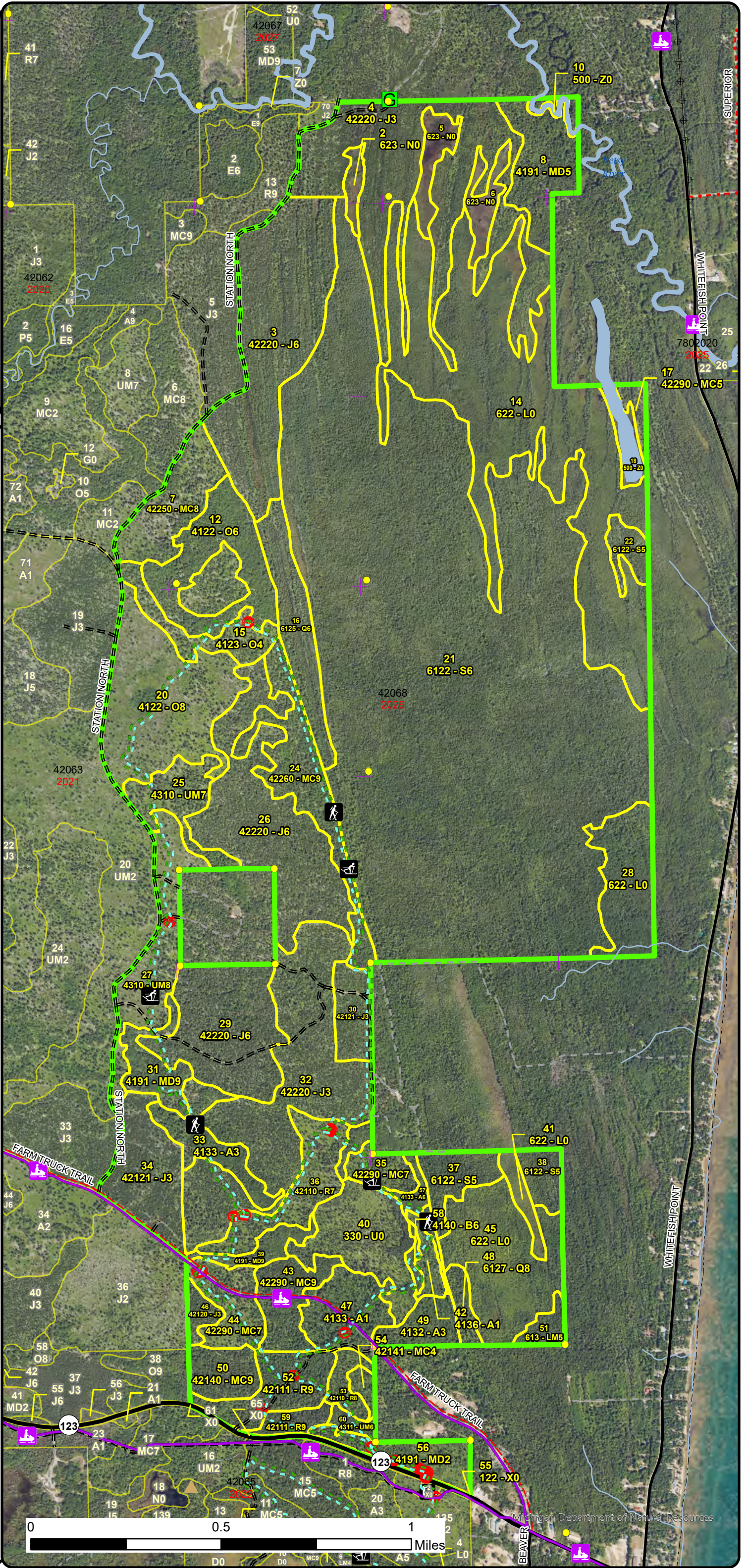
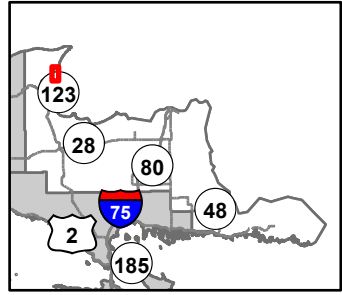


- Berms
- Gate
- Parking Lot
- Sign
- Trailhead
- Survey Grade Corners
- Remonumented Section Corners
- Hiking Trails
- Ski Trails
- Snowmobile Trails
- Designated Hiking Pathways
- Designated Snowmobile Trails
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State Highway
- Federal / State / County - Paved Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Drain
- Lake/Pond
- Perennial River
- Shoreline
- Powerline
- Lakes and Rivers
- Compartment Boundary
- Thinning (Crown, Low, Systematic)
- Shelter Wood (w/Reserves)
- 412 - Oak Types
- 413 - Aspen Types
- 414 - Other Upland Deciduous
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 430 - Upland Mixed Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 122 - Roads/Parking Lot
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland

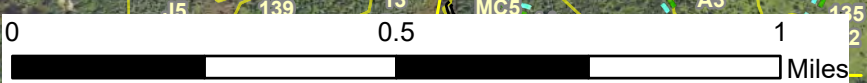


Stand Boundary Map

Compartment: 42068
 T49N, R6W, Sec: 3, 4, 9, 10, 15, 16, 21, 22
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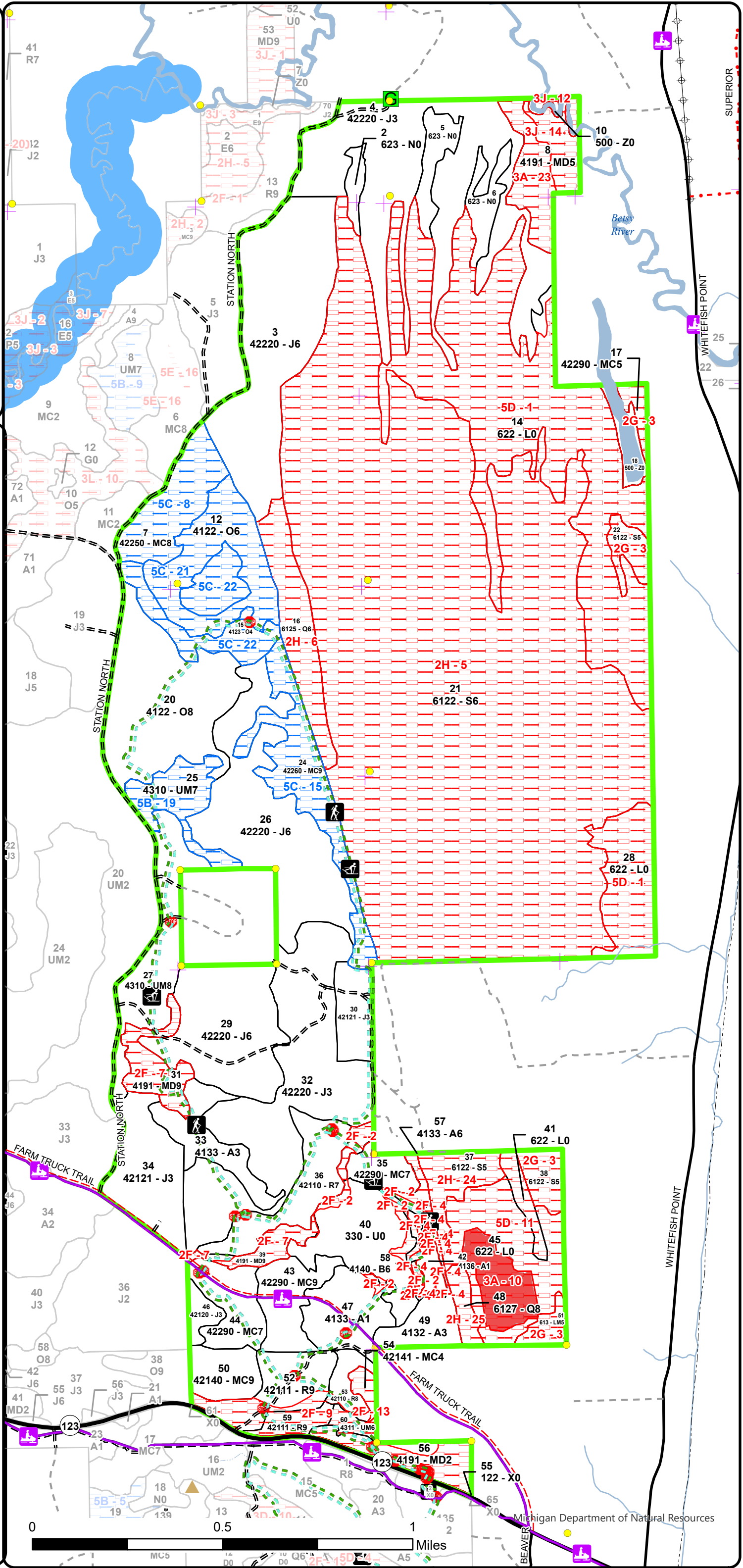
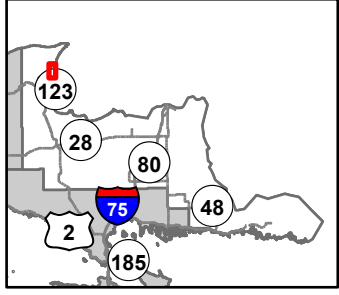


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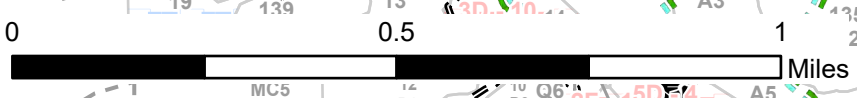


Special Conservation Areas & Site Conditions Map

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 - County - Dirt Road (Seasonal)
 - Private - Dirt / Gravel Road
 - Drain
 - Lake/Pond
 - Perennial River
 - Shoreline
 - Powerline
 - 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
 2G: Too wet (sensitive soils, does not include access issues)
 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
 3A: Conservation Values incompatible with harvest at this time
 3J: Water quality / BMPs (stream, river, or lake)
 5D: Unproductive Forest Land
- 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	238	0	0	0	0	0	0	0	0	0	0	0	0	522
Low-Density Trees	40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	40
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	10	0	0	96	27	0	0	0	0	0	0	0	133
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	16	0	0	0	0	0	0	0	0	16
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	391	33	19	192	127	238	10	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	Overshory Removal	Salvage	Other	Total Acres
Natural Mixed Pines	0	0	0	0	0	21	0	0	0	21
Planted Mixed Pines	0	0	0	0	16	0	0	0	0	16
Total	0	0	0	0	16	21	0	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	0	37
Next Step	0	0	0	0	0	0	16	0	0	16
Total	37	0	0	0	0	0	16	0	0	52



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:

43	42068043-Cut	21.2	42290 - Natural Mixed Pine	Sawtimber Well	98	171- 200	Harvest	Crown Thinning	429 - Mixed Upland Conifers	Two-Aged	No
<p><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 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 a majority of the oak and birch.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> <u>Treatments:</u></p> <p><u>Acceptable</u> Natural Red & White Pine <u>Regen:</u></p> <p><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.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>											
50	42068050-Cut	15.5	42140 - Planted Mixed Pine	Sawtimber Well	86	81-110	Harvest	Shelterwood	42290 - Natural Mixed Pine	Two-Aged	No
<p><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 red and white pine. Leave area retention where terrain dictates. Buffer trail by 50 feet. Leave a majority of the oak and birch.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Intermediate) <u>Treatments:</u></p> <p><u>Acceptable</u> red pine, white pine, jack pine, red oak <u>Regen:</u></p> <p><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></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>											

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 Avail		Acres Not Available		Dominant Site Conditions									
		With Condition				5B	5C	2F	2G	2H	3A	3J	5D		
76	69	0		8	Aspen			8							
522	522	0		0	Jack Pine			0		0					
40	35	0		5	Low-Density Trees			5							
38	0	0		38	Lowland Conifers					38					
6	0	0		6	Lowland Mixed Forest				6						
308	2	0		306	Lowland Shrub			0	0		19			287	
737	0	0		737	Lowland Spruce/Fir				19	718					
28	28	0		0	Marsh										
78	3	0		75	Mixed Upland Deciduous			42			20	14			
133	53	71		9	Natural Mixed Pines		71	4	5						
150	74	75		0	Oak		75			0					
5	0	0		5	Paper Birch			5							
15	15	0		0	Planted Mixed Pines										
70	52	0		18	Red Pine			18							
63	38	21		4	Upland Mixed Forest	21		4							
3	3	0		0	Urban										
11	11	0		0	Water							0			
2,284	906	168		1,211	Total Forested Acres	21	147	84	30	756	39	14	287		
	40%	7%		53%	Relative Percent										

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

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	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

Compartment: 68

Anthony Ciaramitaro : Examiner

Year of Entry: 2026

15	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	40	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.							
24	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	16	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Newberry Mgt. Unit

Anthony Ciaramitaro : Examiner

Compartment: 68

Year of Entry: 2026

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



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	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.
SCA	Visual Management Area	An area of general social appreciation that is managed to recognize and preserve a particular visual value. Examples of these areas include scenic vistas, scenic or natural beauty roads, and lakeshore areas.
ERA	Ecological Reference Areas	Ecological Reference Areas (ERAs) are high quality examples of natural communities that have been identified as Element Occurrences (EOs) by the Michigan Natural Features Inventory (MNFI) within the context of their natural community classification system. Element Occurrences with viability ranks of A (Excellent) or B (Good) and a Global (G) or State (S) element (rarity) ranking of endangered (1), threatened (2), or rare (3) serve as an initial base of ERAs. They may be located upon any ownership in the State. The system is comprised of individual or associations of natural community types that are managed for restoration and maintenance of natural ecological processes and values. The public may submit recommendations for lands as ERAs using the DNR Conservation Area Recommendation Form.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																													
2	623 - Emergent Wetland	Nonstocked	5.3			No																																														
3	42220 - Natural Jack Pine	Poletimber Well	97.3	40	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.																																													
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4	42220 - Natural Jack Pine	Sapling Well	120.6	25	Unspecified	N/A	1/24 Previous 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.																																													
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5	623 - Emergent Wetland	Nonstocked	11.3			No																																														
6	623 - Emergent Wetland	Nonstocked	10.9			No																																														
7	42250 - Pine, Oak	Sawtimber Medium	31.0	85	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.																																													
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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	86	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	Nonstocked	1.9			No	Betsy River																																																												
12	4122 - Oak, Pine	Poletimber Well	43.1	90	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	Nonstocked	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	85	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	110		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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17	42290 - Natural Mixed Pine	Poletimber Medium	5.1	98	81-110	N/A	Low ridges of jack pine and spruce with white pine and red pine with no access.																																																				
18	500 - Water	Nonstocked	9.1			No	Shelldrake river flooding.																																																				
20	4122 - Oak, Pine	Sawtimber Medium	74.4	85	1-50	N/A																																																					
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21	6122 - Black Spruce	Poletimber Well	702.1	97		N/A																																																					
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22	6122 - Black Spruce	Poletimber Medium	8.7	90	Unspecified	N/A	Fingers of timber within low marsh type.																																																				
24	42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	40.2	85	51-80	N/A																																																					
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25	4310 - Pine, Oak Mix	Sawtimber Poor	21.5	88	1-50	N/A																																																					
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26	42220 - Natural Jack Pine	Poletimber Well	82.0	49	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	85	1-50	N/A	1/24 In addition to previous inventory, the ski loop has been maintained and stand is now Forested. Covered type maybe sapling jackpine or mixed pine due to even amounts of residual from harvest and sapling regeneration. Very mixed stand. On edge between Forested and Non Forested. 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. Old ski trail loop ran thru stand, but has not been maintained in years.																																																						
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28	622 - Lowland Shrub	Nonstocked	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	46	81-110	N/A	1/24 Roads and ski trail through stand have been maintained previous inventory adequate. Jack pine are Pole size class with a residual red pine logs throughout. Budworm damage was minimal, low mortality and good overall stand health/diversity. 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.																																																						
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30	42121 - Planted Jack Pine, Mixed Deciduous	Sapling Well	15.3	24	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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31	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	16.7	93	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.																																					
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32	42220 - Natural Jack Pine	Sapling Well	106.4	33	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.																																					
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33	4133 - Aspen, Mixed Pine	Sapling Well	21.3	33	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.																																					
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34	42121 - Planted Jack Pine, Mixed Deciduous	Sapling Well	36.7	24	Immature	N/A	1/24 Previous 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.																																					
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35	42290 - Natural Mixed Pine	Sawtimber Poor	10.4	50	1-50	N/A	1/24 Stand has residual basal 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. 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.																																					
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36	42210 - Natural Red Pine	Sawtimber Poor	29.1	60	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	107		N/A	Below escarpment. Adjacent to trail system.																																																			
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38	6122 - Black Spruce	Poletimber Medium	10.1	108		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	88	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	330 - Low-Density Trees	Nonstocked	39.5	0	Unspecified	No	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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							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	Nonstocked	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	6	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.
		Canopy Species	% Cover	Size Class	DBH	Age	
		White Spruce	5	Pole	5		
		White Pine	10	Log	14	50	
		Bigtooth Aspen	80	Sapling	1	6	
		Red Pine	5	Log	15		
43	42290 - Natural Mixed Pine	Sawtimber Well	21.7	98	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.
		Canopy Species	% Cover	Size Class	DBH	Age	
		Red Oak	6	Pole/Log	9		
		Jack Pine	10	Log/Pole	10		
		Bigtooth Aspen	4	Log/Pole	10		
		Red Pine	45	Log	14	98	
		White Pine	35	Log/Pole	10		
		Sub-Canopy Species	Density	Avg. Height	Size		
		Paper Birch	Low	>20 feet	Sapling		
		White Pine	Low	Variable	Sapling		
44	42290 - Natural Mixed Pine	Sawtimber Poor	21.1	82	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.
		Canopy Species	% Cover	Size Class	DBH	Age	
		Red Oak	5	Pole	8		
		Red Pine	40	Log	14	82	
		Jack Pine	30	Sapling/Pole	3		
		White Pine	20	Pole	8		
		Paper Birch	5	Pole	7		
		Sub-Canopy Species	Density	Avg. Height	Size		
		Bigtooth Aspen	High	10 - 20 feet	Sapling		
		White Pine	Low	< 5 feet	Sapling		
		Jack Pine	Medium	< 5 feet	Sapling		
		Red Oak	Low	5 - 10 feet	Sapling		
45	622 - Lowland Shrub	Nonstocked	59.5			No	
46	42120 - Planted Jack Pine	Sapling Well	5.8	24	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)
		Canopy Species	% Cover	Size Class	DBH	Age	
		Paper Birch	2	Pole	6		
		Bigtooth Aspen	5	Sapling	1		
		Red Pine	3	Log	10		
		White Pine	2	Pole	8		
		Jack Pine	85	Sapling	3	24	
		Red Oak	3	Pole	6		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																									
47	4133 - Aspen, Mixed Pine	Sapling Poor	26.3	7	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	108		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	25	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?																																									
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50	42140 - Planted Mixed Pine	Sawtimber Well	15.5	86	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	108	81-110	N/A	Low land area with muck soil and Labrador tea sphagnum moss herb.																																									
52	42210 - Natural Red Pine	Sawtimber Well	25.6	66	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. "Bonanza 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
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53	42210 - Natural Red Pine	Sawtimber Medium	8.2	86	51-80	N/A	12/23 Aspen is regenerating along trails and in opening created by the shelter wood. Previous stand inventory is accurate.
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Canopy Species	% Cover	Size Class	DBH	Age
White Pine	25	Log/Pole	10	
Red Pine	70	Log/Pole	10	86
Red Oak	5	Pole	8	

Sub-Canopy Species	Density	Avg. Height	Size
White Pine	Low	Variable	Sapling
Red Pine	Low	Variable	Sapling
Bigtooth Aspen	Low	5 - 10 feet	Sapling
Red Oak	Low	Variable	Sapling

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.

54	42290 - Natural Mixed Pine	Poletimber Poor	3.8	81	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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Canopy Species	% Cover	Size Class	DBH	Age
Red Pine	40	Pole	8	81
Red Oak	20	Log	10	
White Pine	40	Pole	8	81

Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	Medium	5 - 10 feet	Sapling
White Pine	Low	5 - 10 feet	Sapling
Red Maple	Medium	5 - 10 feet	Sapling
Red Pine	Low	10 - 20 feet	Sapling

Ridges. RP with variable densities. The north ski trail loop passes thru stand. Clearcut in 2018, leaving all red pine, white pine and oak. A few residuals of these species are present. Ski Trail Mix; #16-16; TCR 9/25/18.

55	122 - Road/Parking Lot	Nonstocked	2.9			Managed Opening	M-123 Scenic Heritage Route
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56	4191 - Mixed Upland Deciduous with Conifer	Sapling Medium	18.5	15	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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Canopy Species	% Cover	Size Class	DBH	Age
Red Oak	5	Sapling	1	
Jack Pine	3	Sapling	1	13
Red Oak	20	Log	10	
Balsam Fir	2	Sapling	1	
Paper Birch	10	Pole	8	
White Pine	5	Pole	9	
Bigtooth Aspen	30	Sapling	1	15
Red Pine	10	Sapling	1	

57	4133 - Aspen, Mixed Pine	Poletimber Well	8.3	81		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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Canopy Species	% Cover	Size Class	DBH	Age
Red Pine	8	Log	14	
Jack Pine	7	Log/Pole	10	
Paper Birch	10	Pole	8	
White Pine	5	Log	14	
Red Oak	10	Pole/Log	9	
Bigtooth Aspen	60	Pole/Log	9	81

Sub-Canopy Species	Density	Avg. Height	Size
Red Oak	Low	10 - 20 feet	Sapling
White Pine	Low	Variable	Sapling
Red Pine	Low	Variable	Sapling



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	88		N/A	1/24 Previous inventory accurate to depict stand. Ridge and trail limitations.																																													
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59	42210 - Natural Red Pine	Sawtimber Well	7.2	86	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. High ridge parallel to M-123. Variable RP densities. Some dead JP. Occasional WB and WP. The north ski trail loop passes thru stand. Uncut portion of stand 53, due to recreational values and slopes.																																													
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60	4311 - Pine, Aspen Mix	Poletimber Well	3.9	92	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. Ridges. RP with variable densities. The north ski trail loop passes thru stand. Uncut portion of stand 54. Left for recreational values and steep slopes.																																													
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