



# Compartment Review Presentation

Newberry Forest Management Unit

Compartment 42055

Entry Year 2026

Acreage: 2,682

County Chippewa

Management Area: Grand Marais Moraine Complex

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**Stand Examiner:** Anthony Ciaramitaro

## Legal Description:

T50N R6W Sections 7, 8, 17 & 18

T50N R7W Sections 11, 12, 13, 14 & 15

## Identified Planning Goals:

Timber management, wildlife habitat, and recreation such as hunting and fishing are the main uses of the compartment. The goal is to improve the forest health, and productivity of the area through proper management to promote these uses. Some stands have suffered damage from Jack Pine Budworm outbreaks. Management of these stands should be a high priority before additional decline and mortality occurs.

## Soil and topography:

The compartment is almost entirely Deer Park sand and the forest cover type associated with the soil is predominantly jack pine. Along the Betsy River is Markey and Carbondale muck with lowland mixed conifer as the forest cover type. The topography throughout the compartment is level to rolling. There is a substantial slope along the Betsy River corridor.

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

The compartment is almost entirely all state owned except for a few private parcels along the Betsy River. The land adjacent to the compartment is all under state ownership. Land use in and around the compartment is primarily for recreational opportunities. Hunting, fishing, ORV'ing, hiking and berry picking all occur throughout the area. Development in the area is minimal with the private parcels consisting of small camps and seasonal usage. Some of the parcels are being sub-divided up into smaller parcels, resulting in a slight increase in recreational use of the area. Timber production is a major use of the compartment.

## Unique Natural Features:

No Unique Natural Features known.

## Archeological, Historical, and Cultural Features:

No Archeological, Historical, or Cultural Features known.

## Special Management Designations or Considerations:

Management activities near the Betsy River will follow all BMP guidelines and any special considerations developed concerning the waterway. Some stands have suffered damage from Jack Pine Budworm outbreaks. Management of these stands should be a high priority before additional decline and mortality occurs. With the extent of the budworm infestation in the area, the possibility of additional healthy stands becoming affected by an outbreak is good.

## Watershed and Fisheries Considerations:

The Betsy (Shelldrake) River which skirts the northern edge of the compartment is a designated trout stream downstream to the Widewaters. Brook trout are present in this portion of the river and does provide some fishing opportunities although limited due to access. 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 55 lies in northern Chippewa county in Grand Marais Moraine Complex Management Area. The compartment is almost entirely jack pine with a few scattered stands of red pine and lowland conifer present. The Betsy River borders most of the northern and the eastern edge of the compartment. Pre-settlement data are consistent with current vegetation patterns. In a predominantly pine forested ecosystem, maintaining a variety of age and size classes and maintaining as much species and structural diversity as possible in managed stands will be important to achieving wildlife objectives. Retaining soft and hard mast producing species and red and white pine in jack pine final harvests will provide food sources, nest and den trees, and improve stand diversity. Forested corridors should be maintained to facilitate ease of movement between upland and lowland areas. Wildlife species potentially using this compartment include white-tailed deer, snowshoe hare, spruce 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 potential for sand (and perhaps minor amounts of gravel) within the compartment on the uplands, but the compartment might be too far from populated areas (commercial markets) for any aggregate resources present to have much economic value beyond limited use by the county road commission, logging companies, or DNR for local road maintenance. No current State mineral leasing activity exists in the area.

**Vehicle Access:**

Access to the compartment can be gained by the Widewaters Road. This is a good dirt/sand road. There are several two track/sand roads branching off of the Widewaters Road which provide ample access to all portions of the compartment. The roads in this area can become difficult to pass during long dry stretches.

**Survey Needs:**

There are no survey needs for management activities in the compartment.

**Recreational Facilities and Opportunities:**

There are no established recreational facilities within the compartment. Recreational opportunities within the area would include hunting, fishing, hiking, ORV use, berry picking, wildlife viewing.

**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 because of the drier sandy ground. Risk to private property would be high.

**Additional Compartment Information:**

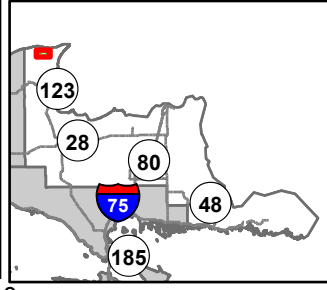
**The following reports from the Inventory are attached:**

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

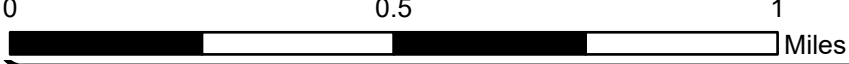
**The following information is displayed, where pertinent, on the attached compartment maps:**

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

Cover Type & Treatments Map



Compartment: 42055  
 T50N, R6W, Sec: 7, 17, 18  
 County: Chippewa  
 Unit: Newberry  
 Mgmt Area: Grand Marais  
 Moraine Complex  
 YOE: 2026  
 Acres: 2682.2 GIS Calculated  
 Examiner: Anthony Ciaramitaro  
 Map Revised: 08/23/2024  
 Map Phase: Web Post

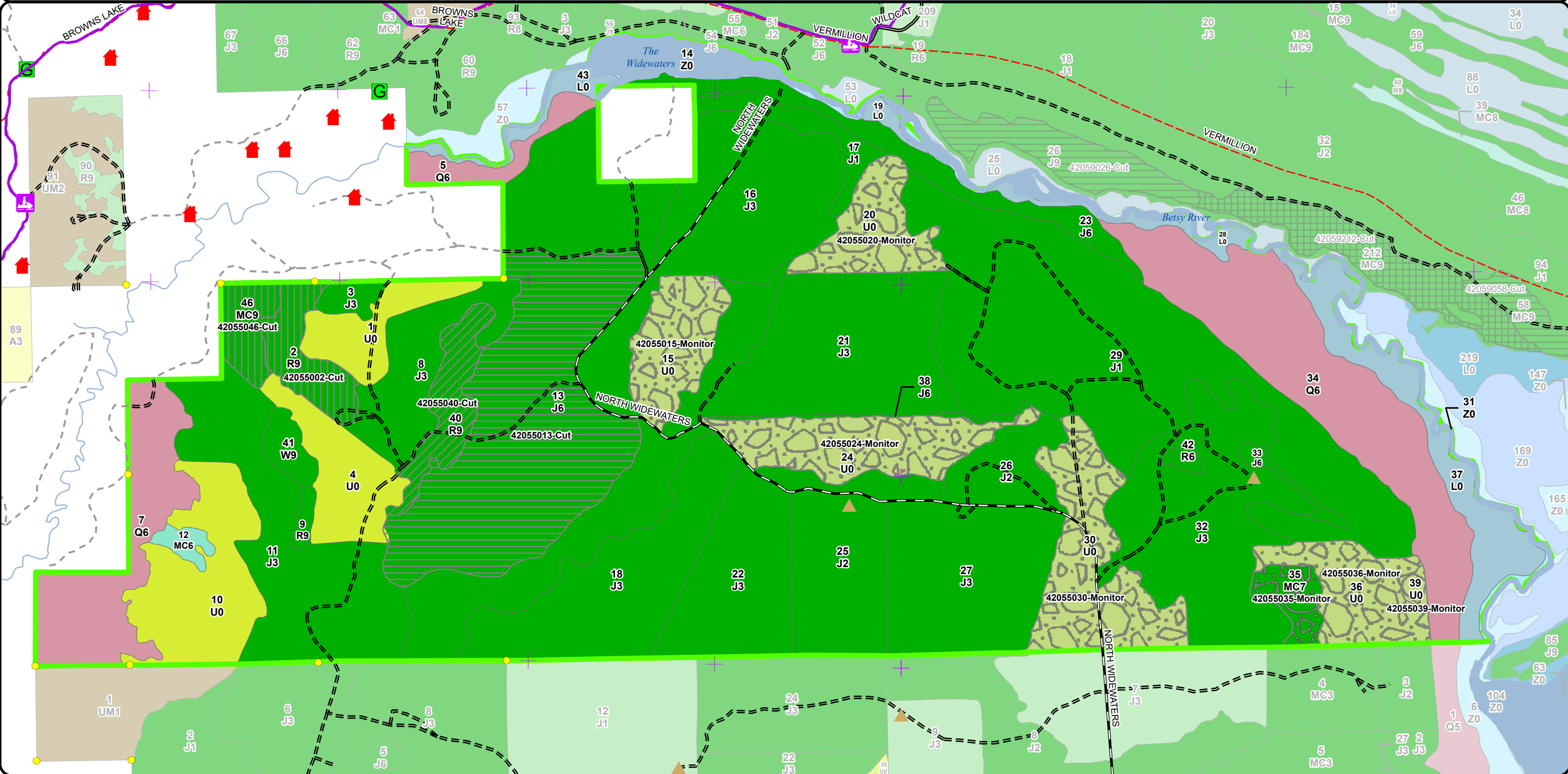


- Cabin
- Berms
- Gate
- Survey Grade Corners
- Remonumented Section Corners
- Snowmobile Trails
- Designated Snowmobile Trails

- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Island in Lake or River
- Lake/Pond

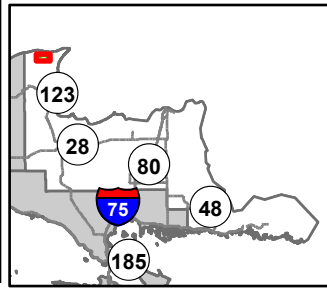
- Perennial River
- Lakes and Rivers
- Compartment Boundary
- Clearcut (w/Reserves)
- Thinning (Crown, Low, Systematic)
- Regeneration Survey
- Shelter Wood (w/Reserves)

- 422 - Natural Pines
- 429 - Mixed Upland Conifers
- 612 - Lowland Coniferous Forest
- 320 - Upland Shrub
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub





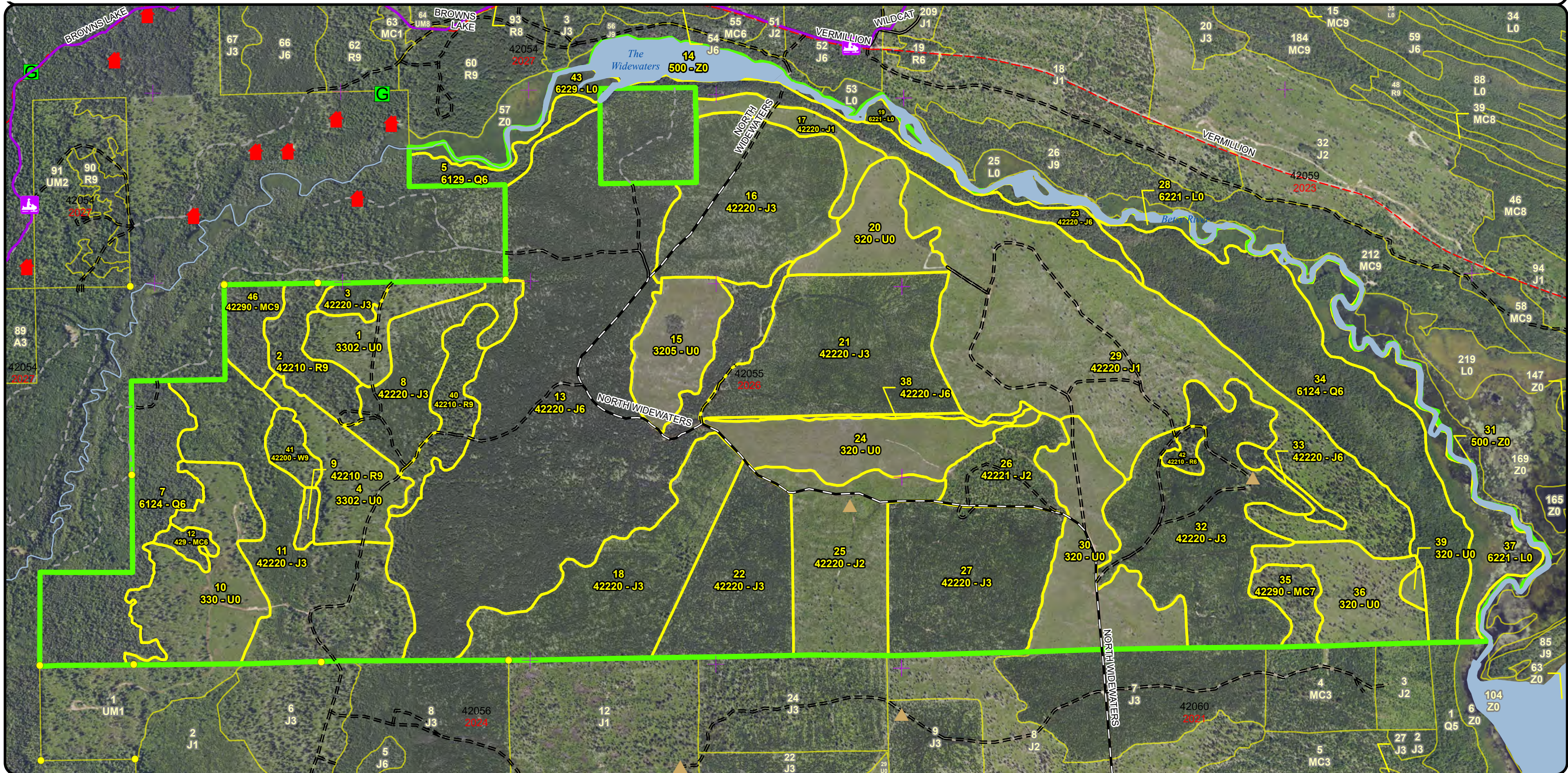
Stand Boundary Map



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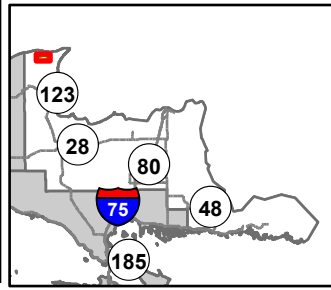


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**Special Conservation Areas & Site Conditions Map**

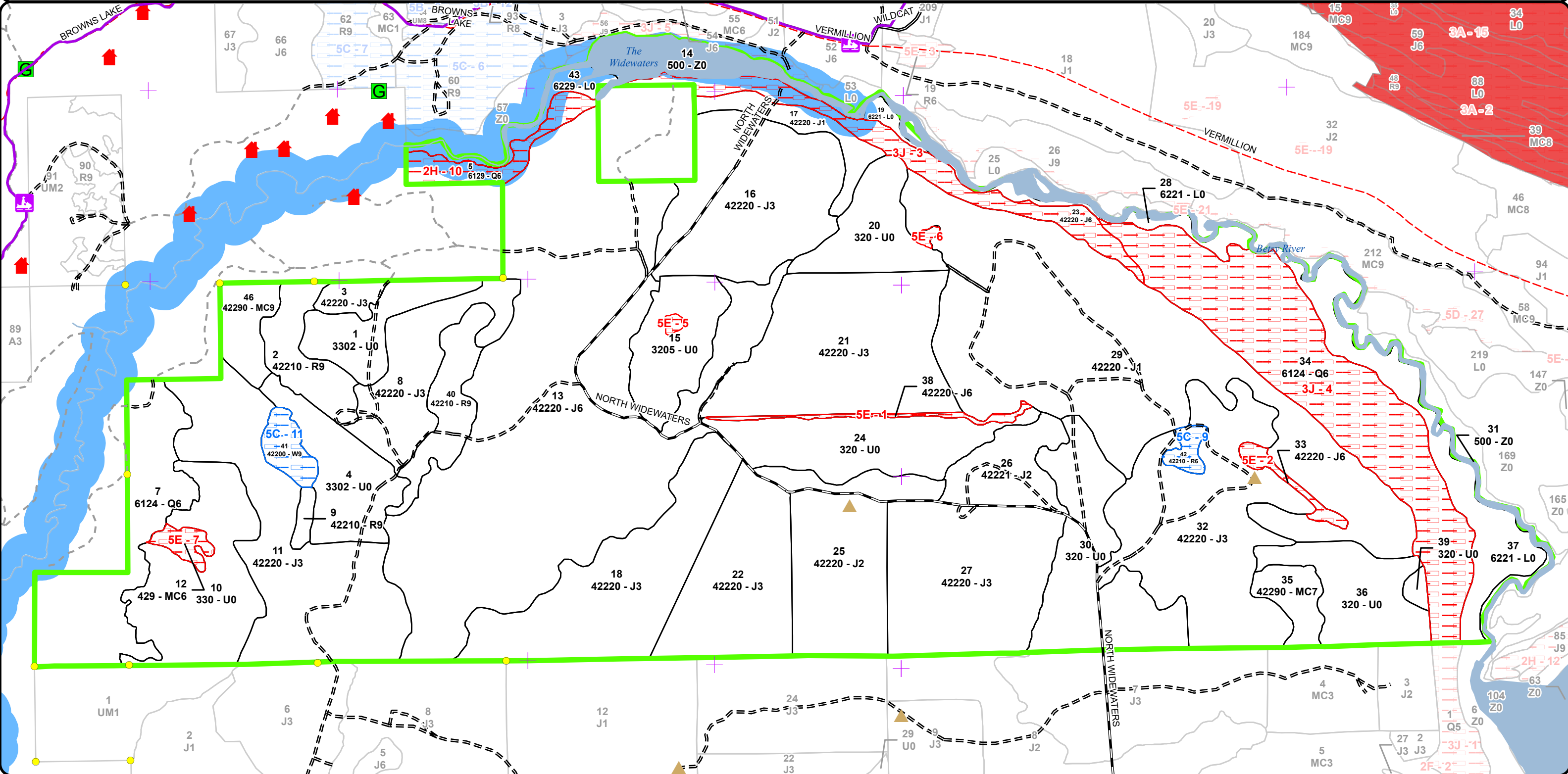
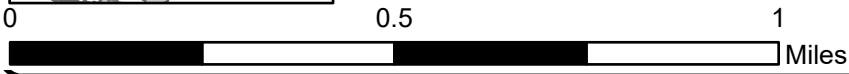


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- Island in Lake or River
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Compartment Boundary
- Available w/ Constraints
- Unavailable

- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention
- 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 55

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+	Uneven-Aged	Total
Jack Pine	0	0	392	696	185	400	0	0	0	6	7	41	0	0	0	0	0	0	1726
Low-Density Trees	156	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	156
Lowland Conifers	0	0	0	0	0	0	0	0	0	0	81	176	0	0	0	0	0	0	257
Lowland Shrub	89	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	89
Natural Mixed Pines	0	0	0	0	0	0	0	0	0	20	0	0	17	0	0	0	0	0	37
Red Pine	0	0	0	0	0	0	0	0	0	0	6	29	4	0	0	0	0	31	70
Upland Conifers	0	0	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	7
Upland Shrub	278	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	278
Water	49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	49
White Pine	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	12
<b>Total</b>	<b>572</b>	<b>0</b>	<b>392</b>	<b>696</b>	<b>185</b>	<b>400</b>	<b>0</b>	<b>0</b>	<b>12</b>	<b>26</b>	<b>101</b>	<b>246</b>	<b>21</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>31</b>	<b>2681</b>



## Report 2 – Treatment Summary

**Newberry Mgt. Unit**  
**Year of Entry: 2026**

**Acres of Harvest**

**Compartment 55**  
**Total Compartment Acres: 2,682**

Commercial Harvest - 285  
 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	Oversy Removal	Salvage	Other	Total Acres
Jack Pine	205	0	0	0	0	0	0	0	0	205
Natural Mixed Pines	0	0	0	0	20	0	0	0	0	20
Red Pine	0	0	0	0	29	31	0	0	0	60
<b>Total</b>	<b>205</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>50</b>	<b>31</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>285</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	285	0	0	0	0	0	295	0	0	580
Next Step	0	254	205	0	234	0	634	0	0	1327
<b>Total</b>	<b>285</b>	<b>254</b>	<b>205</b>	<b>0</b>	<b>234</b>	<b>0</b>	<b>929</b>	<b>0</b>	<b>0</b>	<b>1907</b>



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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**Proposed Treatments:**

<b>2</b>	<b>42055002-Cut</b>	29.4	42210 - Natural Red Pine	Sawtimber Well	105	81-110	Harvest	Shelterwood with Retention	42210 - Natural Red Pine	Two-Aged	No
<p><u>Prescription</u> Follow natural pine guidance by leaving at least one area of retention and several clear cut gaps then making through remaining stand to  <u>Specs:</u> reach average BA goal. Overall retention should be about 30-50 BA of red pine that includes some large diameter white pine where present. Retain legacy trees if present. Protect regeneration and second age class of red pine wherever possible.</p> <p><u>Next Step</u> ; SitePrep, Scarification; Burn, Understory  <u>Treatments:</u></p> <p><u>Acceptable</u> Red Pine, White Pine  <u>Regen:</u></p> <p><u>Other</u>  <u>Comment:</u></p> <p><u>Site Condition</u>  <u>Proposed Start Date:</u> 10/1 /2025</p>											
<b>13</b>	<b>42055013-Cut</b>	204.7	42220 - Natural Jack Pine	Poletimber Well	46	81-110	Harvest	Clearcut with Retention	4222 - Natural Jack Pine	Even-Aged	No
<p><u>Prescription</u> Clearcut approximately 200 acres down to, two inch spec for kirtland's warbler management. Retain all red pine over 10 inches. Retain any  <u>Specs:</u> non pine species for diversity and wildlife management. Harvest retention will be the remainder of the stand. Use road to buffer clearcut to the east for green up if necessary. Southern and northern boundary may change. Acreage may change up to (+/-) 10% due to harvest line delineation.</p> <p><u>Next Step</u> SitePrep, Scarification; Burn, Slash; Monitoring, Natural Regen (Intermediate); Planting, Initial Plant; ; Monitoring, Artificial  <u>Treatments:</u> Regen(1yr); Monitoring, Artificial Regen(3yr)</p> <p><u>Acceptable</u> Jack Pine &amp; Red Pine  <u>Regen:</u></p> <p><u>Other</u> Stand will be divided into several smaller stands by the cutting to promote age class diversity and reduce possible, future, forest health  <u>Comment:</u> impacts. Rx burn or scarify following harvest to promote natural regen. Use necessary KW specs if appropriate.</p> <p><u>Site Condition</u>  <u>Proposed Start Date:</u> 10/1 /2025</p>											
<b>15</b>	<b>42055015-Monitor</b>	43.9	3205 - Mixed Upland Shrub	Nonstocked	0	Immature	Monitoring	Natural Regen (Intermediate)	4222 - Natural Jack Pine	Even-Aged	No
<p><u>Prescription</u> regen survey for natural JP success  <u>Specs:</u></p> <p><u>Next Step</u>  <u>Treatments:</u></p> <p><u>Acceptable</u> jack pine  <u>Regen:</u></p> <p><u>Other</u>  <u>Comment:</u></p> <p><u>Site Condition</u>  <u>Proposed Start Date:</u> 10/1 /2023</p>											





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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
<b>20 42055020-Monitor</b>	40.6	320 - Upland Shrub	Nonstocked	0		Monitoring	Natural Regen (Intermediate)	4222 - Natural Jack Pine	Even-Aged	No
<p><u>Prescription</u> regen survey for natural JP success  <u>Specs:</u>  <u>Next Step</u>  <u>Treatments:</u>  <u>Acceptable</u> jack pine  <u>Regen:</u>  <u>Other</u>  <u>Comment:</u>  <u>Site Condition</u>                      Proposed Start Date: 10/1 /2023</p>										
<b>24 42055024-Monitor</b>	62.8	320 - Upland Shrub	Nonstocked	0		Monitoring	Natural Regen (Intermediate)	4222 - Natural Jack Pine	Even-Aged	No
<p><u>Prescription</u> regen survey for natural JP success  <u>Specs:</u>  <u>Next Step</u>  <u>Treatments:</u>  <u>Acceptable</u> jack pine  <u>Regen:</u>  <u>Other</u>  <u>Comment:</u>  <u>Site Condition</u>                      Proposed Start Date: 10/1 /2023</p>										
<b>30 42055030-Monitor</b>	79.7	320 - Upland Shrub	Nonstocked	0	Immature	Monitoring	Natural Regen (Intermediate)	4222 - Natural Jack Pine	Even-Aged	No
<p><u>Prescription</u> Check for regeneration of natural jack pine and implement fixed tally plots if deemed necessary.  <u>Specs:</u>  <u>Next Step</u>  <u>Treatments:</u>  <u>Acceptable</u> Jack Pine  <u>Regen:</u>  <u>Other</u> Site was scarified in 2020, regen includes natural jack that is ~3 year old as of 2023 and Red Oak (red oak from residual from prev. harvest).  <u>Comment:</u>  <u>Site Condition</u>                      Proposed Start Date: 10/1 /2024</p>										
<b>35 42055035-Monitor</b>	16.8	42290 - Natural Mixed Pine	Sawtimber Poor	115	1-50	Monitoring	Natural Regen (Intermediate)	42260 - Natural Pine, Mixed Deciduous	Two-Aged	No
<p><u>Prescription</u> Monitor for natural regeneration of Jack, Red &amp; White pine. mixed deciduous  <u>Specs:</u>  <u>Next Step</u>  <u>Treatments:</u>  <u>Acceptable</u> Species already present. Jack Pine, Red Pine &amp; White Pine. Red maple, birch, oak.  <u>Regen:</u>  <u>Other</u> High residual BA from previous harvest may allow for associated conifer (balsam/spruce) and deciduous (birch / maple) to see some regen as well.  <u>Comment:</u>  <u>Site Condition</u>                      Proposed Start Date: 10/1 /2024</p>										

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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
<b>36 42055036-Monitor</b>	47.5	320 - Upland Shrub	Nonstocked	0	Immature	Monitoring	Natural Regen (Intermediate)	42260 - Natural Pine, Mixed Deciduous	Even-Aged	No
<p><u>Prescription</u> Monitor for natural regeneration for the forested objective cover type.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Jack, Red, &amp; White pine with lower densities of Red Maple, White Spruce &amp; Paper Birch.</p> <p><u>Regen:</u></p> <p><u>Other</u> Stands merged included a R7 with ~10 BA residual from sale "Up North Pine".</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>										
<b>40 42055040-Cut</b>	30.9	42210 - Natural Red Pine	Sawtimber Well	94	111-140	Harvest	Crown Thinning	42210 - Natural Red Pine	Uneven-Aged	No
<p><u>Prescription</u> Crown thinning to promote existing regeneration. Mark to cut, focusing on removing large canopy trees where existing regeneration would benefit. In other areas mark down to 50-70 BA where appropriate removing log size trees. Attempt to maintain un-even age class and protect existing regeneration. Follow natural pine guidance. Retain oak if present for structural diversity and wildlife food production. Retain two 16 inch + white pine per acre for bear escape trees. Do not cut legacy trees if present.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Red and white pine</p> <p><u>Regen:</u></p> <p><u>Other</u> Un-even age class stand, BA and density will vary in marking and cruising.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>										
<b>46 42055046-Cut</b>	20.2	42290 - Natural Mixed Pine	Sawtimber Well	86	111-140	Harvest	Shelterwood with Retention	42290 - Natural Mixed Pine	Two-Aged	No
<p><u>Prescription</u> Shelterwood with retention. Follow natural pine guidance - variable retention thinning. Remove all jack pine and all spruce, this should create some clear-cut gaps, if not, add them where necessary. Mark through remaining stand to reach retention goal. Overall retention should be about 30-50 BA of red and white pine. Attempt to protect pine regeneration wherever possible. Retain birch and oak for as well as soft snags for wildlife benefit. Place area retention pocket in NW corner where topography dictates.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> SitePrep, Scarification; Monitoring, Natural Regen (Intermediate)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Red Pine, White Pine, jack pine</p> <p><u>Regen:</u></p> <p><u>Other</u> Objective is to grow the second age class of mixed r/w pine. Removal of overstory will be required later on. Attempt to protect regeneration wherever possible. Mark to retain or spec larger diameter retention only. Spec jack, spruce.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>										

**Approved Treatments:**

<b>39 42055039-Monitor</b>	3.3	320 - Upland Shrub	Nonstocked	0	Immature	Monitoring	Natural Regen (Intermediate)	4222 - Natural Jack Pine	Even-Aged	No
<p><u>Prescription</u> Monitor for natural jack pine regeneration.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Jack pine</p> <p><u>Regen:</u></p>										





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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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Other	Clearcut and scarified in 2020.									
<u>Comment:</u>										
<u>Site Condition</u>										
<u>Proposed Start Date:</u>	10/1 /2024									

**Total Treatment** 579.8  
**Acreage Proposed:**

## Report 4 – Site Conditions

Newberry Mgt. Unit  
 Anthony Ciaramitaro : Examiner

Compartment: 55  
 Year of Entry: 2026

### Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions			
		With Condition	Not Available		5C	2H	3J	5E
1726	1673	0	53	Jack Pine			41	12
156	156	0	0	Low-Density Trees				
257	81	0	176	Lowland Conifers		19	156	0
89	89	0	0	Lowland Shrub				
37	37	0	0	Natural Mixed Pines				
71	65	6	0	Red Pine	6			
7	0	0	7	Upland Conifers				7
278	276	0	3	Upland Shrub				3
49	49	0	0	Water				
12	0	12	0	White Pine	12			
2,682	2,426	18	238	Total Forested Acres	18	19	198	22
	90%	1%	9%	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	5E: Long-Term Retention	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
2	Unavailable	5E: Long-Term Retention	7	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
3	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	41	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							



## Report 4 – Site Conditions

Newberry Mgt. Unit

Anthony Ciaramitaro : Examiner

Compartment: 55

Year of Entry: 2026

4	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	156	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
5	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
6	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
7	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	7	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
9	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Small size and low BA, delay treatment.							
10	<b>Unavailable</b>	<b>2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)</b>	19	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

# Report 4 – Site Conditions

Newberry Mgt. Unit

Anthony Ciaramitaro : Examiner

Compartment: 55

Year of Entry: 2026

11	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							



Mgt. Unit

Compartment: #Type!

Year of Entry:



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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments



**Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS**

\* This is a list of SCA's for this compartment along with a 1/4 mile buffer surrounding the compartment. Refer to the Special Conservation Area Map for locations of the below listed Conservation Areas.

ERA = Ecological Reference Area  
 HCVA = High Conservation Value Area  
 SCA = Special Conservation Area

Conservation Area	Type	Description
SCA	Cold Water Lake	A coldwater lake has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species to persist from year to year. Suitable conditions for coldwater fishes may occur in Michigan lakes if they are relatively deep, have substantial groundwater inflows, or are located in colder (northern) areas of the state. Such lakes are established by Director's action and designated as trout resources by Fisheries Order 200.
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in which the terrestrial ecosystem influences the aquatic ecosystem and vice-versa. Because of the unique conditions adjacent to lakes, streams and open water wetlands, riparian areas harbor a high diversity of plants and wildlife. Riparian communities are ecologically and socially significant in their effects on water quality and quantity, as well as aesthetics, habitat, bank stability, timber production, and their contribution to overall biodiversity.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																				
1	3302 - Low Density Conifer Trees	Nonstocked	32.0		Immature	4212 - Planted Jack Pine	<p>Stand final harvested as sale #013-06-01, Compartment 55 Jack Pine. Completed 05/13/10. Regeneration work yet to be done as of 12/03/10. Regeneration check needed in 2014. FTP #42-671 completed 8/29/2011.</p> <p>Regeneration check in 2014 showed stand to be fully stocked, 660-700 trees per acre.</p> <p>11/23 Previous stand inventories are adequate. Jack pine regeneration reaching approximately 10 feet in height. Residual red pine, white pine, black spruce, and red maple added to canopy.</p>																																				
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2	42210 - Natural Red Pine	Sawtimber Well	29.4	105	81-110	N/A	<p>Stand was harvested as sale #005-96-01. Completed in fall of 1997. This portion of the harvest had significant red pine residual so separated it out as a new stand.</p> <p>11/23 Previous stand inventory is adequate. Monoculture, red pine overstory showing low regeneration levels. Variable species in sub canopy along with some red pine. No record of residual pine in sale #005-96-01.</p>																																				
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3	42220 - Natural Jack Pine	Sapling Well	8.7	25	Immature	N/A	<p>Stand harvested as sale #005-96-01. Completed in 1997. Scarification completed 6/1998. Stocking survey 5/15/2003 - 959 trees/acre. Good regeneration of jack pine. Scattered red and white pine residual.</p> <p>11/23 Residual jack pine growing well and stand is dense. Signs of white and red pine regeneration in low densities throughout.</p>																																				
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4	3302 - Low Density Conifer Trees	Nonstocked	45.4		Immature	4222 - Natural Jack Pine	<p>Stand final harvested as sale #013-06-01, Compartment 55 Jack Pine. Completed 05/13/10. Regeneration work yet to be done as of 12/03/10. Regeneration check needed in 2014. FTP #42-671 completed 8/29/2011. Regeneration check in 2014 showed stand to be fully stocked, 660-700 trees per acre. 11/23 Natural jack pine regeneration growing well. Stand is adequately stocked and contains residual red oak and red pine from previous harvest.</p>																																				
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5	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	19.4	107	51-80	N/A	<p>Treed floodplain on the river, including the "shelf". Highly diverse in species composition but low productivity due to saturated soils and blocked by the steep shelf.</p>																																				
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments				
7	6124 - Lowland Spruce-Fir	Poletimber Well	81.4	96	81-110	N/A	<p>Mixed stand with thick understory in most areas. Fairly low quality stand. Small diameter red maple. Larger spruce and white pine. White birch in wetter areas, showing substantial mortality. Jack pine mixed in mainly along eastern stand edge. Good component of balsam. A few areas of blowdown.</p> <p>11/23 Stand merged with low area to the west. Stands were similar with a major component of black spruce and red maple with large diameter / dominate red and white pine. Stand is more deciduous in norther portion. Spruce and pine are in decline and have die back / dead and broken tops.</p>				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Pine		10	Log	15		Red Maple		Medium	10 - 20 feet	Sapling	
Jack Pine		5	Pole	8		Balsam Fir		High	Variable	Sapling	
Paper Birch		5	Pole	8		Black Spruce		Low	10 - 20 feet	Sapling	
White Pine		5	Log/Pole	12							
Balsam Fir		5	Pole	7							
White Spruce		5	Log/Pole	12							
Black Spruce		40	Pole	8	96						
Red Maple		25	Pole/Log	9	95						
8	42220 - Natural Jack Pine	Sapling Well	53.6	24	Immature	N/A	<p>Harvested as sale #006-96-01. Completed in 1999. No records of scarification, regenerating naturally. Thicker regeneration in pockets. Good component of residual mature red pine throughout the stand. Jack pine regeneration averaging 10 ft tall.</p> <p>11/23 .Previous stand inventory is adequate. updated ages and diameters. added component of white pine in the overstory as well. As scattered, spruce. also red white and Jack pine saplings in the sub canopy.</p>				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Jack Pine		79	Sapling	3	24	Red Pine		Low	< 5 feet	Sapling	
Black Spruce		1	Sapling/Pole	2		White Pine		Low	< 5 feet	Sapling	
Red Pine		15	Log	14		Jack Pine		High	< 5 feet	Seeding	
White Pine		5	Log	16							
9	42210 - Natural Red Pine	Sawtimber Well	4.3	110	111-140	N/A	<p>Small acreage stand of mature red pine, with jack pine, white pine and spruce. Surrounded by young jack pine. Some jack pine removed as part of sale #039-96-01.</p> <p>11/23 Previous inventory adequate to depict stand. No pine regen found, mainly spruce coming back in canopy gaps. Variable topography with pits containing Labrador tea and black spruce.</p>				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
White Pine		10	Log/Pole	12		White Pine		Low	Variable	Sapling	
Red Pine		80	Log/Pole	13	110	Red Maple		Low	10 - 20 feet	Sapling	
Jack Pine		5	Pole	9		Black Spruce		Low	Variable	Sapling	
Black Spruce		5	Pole	8		Balsam Fir		Medium	Variable	Sapling	
10	330 - Low-Density Trees	Nonstocked	79.0	0	Unspecified	4222 - Natural Jack Pine	<p>Nice, tall, mature jack pine. Showing some signs of mortality. Black spruce component. Component of red pine and white pine as well. More of a pure jack pine stand in eastern part of the stand. Understory is thick in areas, balsam, spruce and red maple 10-20 ft tall. Scattered aspen and white birch in western portion. Units 1-3 of Snag It Pine 42-19-14. Unit 2 scarified in 2017. Units 1 &amp; 3 scarified fall 2018. FTP 42-870.</p> <p>Regen check 10/22. Some conifer coming back, but a lot of red maple and aspen coming in. Monitor again to give the jack pine another year to grow. Possible change to m.o. to upland mixed for next years regen check.</p> <p>11/23 Spur road was put in to access stand and was bermed, but berm has been trampled over and opened up again. Regen check for natural jack pine with good component of black spruce red Maple paper Birch seedlings. Passed regen check ~950 tpa jp in patches. Long term retention patch in center of stand from previous harvest.</p>				
Sub-Canopy Species		Density	Avg. Height	Size							
White Pine		Low	>20 feet	Log							
Red Pine		Low	>20 feet	Log							
Jack Pine		Low	5 - 10 feet	Sapling							
Jack Pine		Low	< 5 feet	Seeding							
Black Spruce		Medium	Variable	Sapling							





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																									
11	42220 - Natural Jack Pine	Sapling Well	126.5	21	Immature	N/A	Harvested in 1999 and 2000 as sale #039-96-01. Northern 2/3 of stand cut in 1999. Stand was scarified in 2004 (FTP#42-473). Good component of residual mature red pine throughout the stand. Northern 2/3 of the stand was planted through (jack pine). Road running north through the stand is growing closed. 11/23 Previous inventory adequate to depict stand. Road is still walkable and growing in. beginning to reach Pole size class throughout. Mature over story, red and white pines approximately 20 inch.																																																									
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12	429 - Mixed Upland Conifers	Poletimber Well	6.8	96	81-110	N/A	1/24 Imagery suggests this areas composition closely resembles that which was present in stand 10 to the immediate east. Split this "finger" from stand 7 to the west and site conditioned as long term retention.  Units 1-3 of Snag It Pine 42-19-14. Unit 2 scarified in 2017. Units 1 & 3 scarified fall 2018. FTP 42-870. ixed stand with thick understory in most areas. Fairly low quality stand. Small diameter red maple. Larger spruce and white pine. White birch in wetter areas, showing substantial mortality. Jack pine mixed in mainly along eastern stand edge. Good component of balsam. A few areas of blowdown.																																																									
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13	42220 - Natural Jack Pine	Poletimber Well	400.2	46	81-110	N/A	Young jack pine stand, harvested in 1977-1978. Stand is transitioning from a sapling stand to a pole stand. Larger diameter red pine mainly in western portion of the stand. Dense stand. Minimal amount of budworm damage.																																																									
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14	500 - Water	Nonstocked	31.1			No	The Widewaters																																																									
15	3205 - Mixed Upland Shrub	Nonstocked	43.9	0	Immature	4222 - Natural Jack Pine	Monitor completed 11/23. ~100 TPA of natural jack pine with higher seedling densities in ground depressions.  Stand harvested via clearcut with reserves: Way Up North Pine 42-11-16: TCR complete 8/26/2020. Stand scarified 7/27/2020. Monitoring in place. 10/22 did not pass regen check, monitor, will likely pass next year  11/23 regen check																																																									
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16	42220 - Natural Jack Pine	Sapling Well	106.7	24	Immature	N/A	Harvested as sale #023-96-01. Completed 1999 (cut 1998 & 1999). Scarified in 5/99 and 7/2000. Regeneration survey in 2003 (1065 t/a). Good regeneration. Average height of 5-10 ft, thick regeneration throughout most of stand.  11/23 Previous inventory is adequate to depict stand. Ages and diameters have been updated. Dense JP regeneration throughout.																																																									
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17	42220 - Natural Jack Pine	Sapling Poor	20.9	13	81-110	N/A	Sale #: 42-008-06-01. Partially completed 7/20/2011. Sale completed 01/20/12. Scarification yet to be completed as of 01/27/12. Regeneration check needed in 2016.  Regen 2016: Jack pine regen at 685 TPA.  11/23 Jack pine regeneration showing good signs of growth past 7 years. low mortality. Stand ages and diameters have been updated.																																										
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18	42220 - Natural Jack Pine	Sapling Well	107.0	24	Immature	N/A	Harvested as sale #008-96-01, completed 1999. Cut in 1998 and 1999. Scarified in 1999 and 2000. All fully stocked at time of regen check in May 2003. Better regeneration in the southern portion of the stand. Survey 5/20/2003 - 751 t/a and 685 t/a. FTP#42-453.  2014 - jack pine regeneration is 5-10 ft tall on average. Northeastern corner of the stand has slightly more sparse regeneration.  11/23 Previous inventory is adequate. Stand is showing good growth overall. Jack pine average height approaching 25 feet and entering pole class size. There are scattered red and white pine throughout the stand as well as some spruce.																																										
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19	6221 - Fen	Nonstocked	3.9			No	Fen of the Shelldrake River.																																										
20	320 - Upland Shrub	Nonstocked	40.6	0		4222 - Natural Jack Pine	Stand harvested via cleacut with retention: Way Up North Pine - 42-11-16. TCR completed 8/26/20. Stand scarified 7/28/2020. Monitoring in place. 10/22 did not pass regen check, monitor, will likely pass next year																																										
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21	42220 - Natural Jack Pine	Sapling Well	122.3	29	Immature	N/A	11/3/23 Overall DBH and age updated via cutting record. Possible forest health concern for pine gall rust. Moderate to high densities through stand. Pure jack pine stand.  Stand harvested as sale #37-88-01. Completed in 1994. Scarified spring of 1995. Pretty uniform regeneration throughout the stand. Regeneration is slightly thicker and taller along the road through the stand. Machine planted in May 2000 (FTP#42-378)																																										
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22	42220 - Natural Jack Pine	Sapling Well	79.2	33	Immature	N/A	Stand was scarified in July 1991. Regeneration check done in fall 1994. Good regeneration, 15-20 ft tall.  11/23 Jack pine regeneration is looking well. Average height is approximately 30 feet and entering Pole class size.																																										
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23	42220 - Natural Jack Pine	Poletimber Well	41.1	102	111-140	N/A	Portion of the natural jack pine stand(s) that is located on the "steps" and slope down to the river. Some mortality due to budworm. Scattered limby jack pine with larger diameters. White birch in areas.  11/23 Previous stand inventory is adequate. High levels of diversity along the steep with notable components of red pine and red maple found throughout. Recommended as retention with possible site condition for steepness and water quality. Some super canopy white pine found in areas. Site conditioned j3.																																															
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24	320 - Upland Shrub	Nonstocked	62.8	0		4222 - Natural Jack Pine	Stand harvested via clearcut with retention: Way Up North Pine - 42-11-16. TCR Complete 8/26/2020. Half of the stand was scarified summer of 2019 and second half in summer of 2020. Monitoring in place. 10/22 did not pass regen check, monitor, will likely pass next year. 11/23 Natural jackpine regeneration is still very low. On the Western portion of the stand. Eastern portion has more growth, but also lacks tree's per acre.																																															
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25	42220 - Natural Jack Pine	Sapling Medium	85.0	16	Immature	N/A	Stand harvested as sale #012-06-01. Completed 1/31/2008. Scarification completed 10/15/08 (FTP42-672). Regeneration check needed by 2012. Summer 2012: JP=696, RP = 11, TPA = 707. Young jack pine stand. 3 ft tall on average. Red maple stump sprouts 5 ft tall. Road through stand has closed in with jack pine regeneration.  11/23 Jack pine regeneration, approaching 70% canopy closure and 7-10 foot average height. Residual red Maple and Birch doing well. Red Maple stump sprouts also appear to be doing well.																																															
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26	42221 - Natural Jack Pine, Mixed Deciduous	Sapling Medium	34.4	26	Immature	N/A	Stand harvested as sale #010-96-01. Completed 4/21/1999. Scarification completed June 1999 (FTP#42-468). Residual red oak retained. Jack pine regeneration with some red maple stump sprouting. Long term management objective is jack pine.  11/23 Natural Jack pine coming along nicely. Beginning to enter pole size class. Residual oak also doing well, fairly large overstory component. Maple saplings reaching approximately 20 feet.																																															
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27	42220 - Natural Jack Pine	Sapling Well	106.0	30	Immature	N/A	Harvested as sale #035-88-01, completed in fall 1993. Scarified in August of 1994. Stocking Survey in July 1998. Pretty nice regeneration. Some oak and maple regeneration as well. Best regeneration is along the abandoned road. Thicker regeneration further south in the stand.  11/23 Previous inventory adequate to depict Stand. Ages and diameters adjusted. Jack pine regeneration is denser in some spots. Entering poll size class in others.																																															
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29	42220 - Natural Jack Pine	Sapling Poor	285.8	12	Immature	N/A	Sale #: 42-008-06-01. Partially completed 7/20/2011. Sale completed 01/20/12. Scarification yet to be completed as of 01/27/12. Regeneration check needed in 2016.  Regen 2016: Payment units 2 and 3 were well stocked with 611 TPA and 1027 TPA of jack pine, respectively. Payment unit 8 had 365 TPA of jack pine, 426 TPA of white pine, and 167 TPA of red pine. Higher residual basal area in southeastern section (Payment unit 8).  Regen 2015: Payment units 3, 4, 5, 6, 7. Jack pine 447 TPA, red maple 114 TPA, oak 47 TPA.  11/23 Stand updated. SE portion of stand contains pole and log size red pine.																																										
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30	320 - Upland Shrub	Nonstocked	79.7	0	Immature	4222 - Natural Jack Pine	Stand harvested via Clearcut: Way Up North Pine - 42-11-16. TCR Complete 8/26/2020. Site scarified in late summer of 2018. Lots of 1 year old jack pine seedlings. Monitoring in place for next year.  Regen checked in 11/23, several linear plots were run, few trees counted in. Regen (jack pine) is even and sometimes clumped with ages of approx 3 years and approx 6 years. scattered residual oak throughout stand. Did not pass, check again in FY 2025.																																										
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31	500 - Water	Nonstocked	18.2			No	The Shelldrake River																																										
32	42220 - Natural Jack Pine	Sapling Well	136.7	25	Immature	N/A	Harvested in 1998, sale #016-96-01. Scarified in June 1999. Good regeneration, especially north and western portions of the stand. Scattered residual pole and log size red pine, one patch as well. Old roads are beginning to fill in with jack pine.  11/23 Roads are still passable. Previous inventory adequately depicts stand, updates made.																																										
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33	42220 - Natural Jack Pine	Poletimber Well	6.5	99	81-110	N/A	Ridge of jack pine and some red pine, retained when adjacent stand to the east was cut. Good long term retention.  Large pines over toping mature jack that is throughout. Pockets of thick regeneration of various species. Highly variable.  Site conditioned for topography and/or retention.																																										
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																														
34	6124 - Lowland Spruce-Fir	Poletimber Well	156.4	105	111-140	N/A	11/23 Edge call, previous inventory adequate to depict stand. Stand surrounded by large ridge and no known roads. Difficult access and winter cut only due to wet areas. Lowland stand of mixed conifers. Areas thicker to black spruce, mostly in the western portion of the stand. Real mix of species. Some open areas with more tag alder. Areas of a "Q5" with tag alder. Small slight ridges with some low quality jack and red pine. Southern end is mostly black spruce with cedar. Fairly wet stand throughout. Winter only.																																														
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35	42290 - Natural Mixed Pine	Sawtimber Poor	16.8	115	1-50	N/A	Stand has a high variability of species in the northern portions of the stand. Southern portion of the stand has higher BA of red pine and white pine. Large mature red pine and white pine.  Stand harvested via shelterwood with retention: Way Up North Pine - 42-11-16. TCR Complete 8/26/2020. Scarification of site completed 7/28/2020. Monitoring in place.  Previous inventory records are adequate to depict stand. Some notable blow down of residual trees, several spp, from previous harvest. Residual BA is higher in spots, would need to be flat planted if natural regen fails. More BA of birch than first estimated.																																														
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36	320 - Upland Shrub	Nonstocked	47.7	0	Immature	42221 - Natural Jack Pine, Mixed Deciduous	Nice tall jack pine. Red pine, white pine and occasional black spruce. Blowdown patches, evidence of budworm damage. Small spruce in the understory.  Stand harvested clearcut with retention: Way Up North Pine - 42-11-16. TCR Complete 8/26/2020. Site scarified 7/30/2020. Monitoring in place.  Inventory for November 2023 seedlings include Jack pine and white pine with trace amounts of white spruce density is low to medium.																																														
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37	6221 - Fen	Nonstocked	59.8			No	Fen of the Shelldrake River.																																														
38	42220 - Natural Jack Pine	Poletimber Well	5.6	80	Unspecified	N/A	Long term retention zone, for wildlife concerns, from stand harvested via clearcut with retention to the south: Way Up North Pine - 42-11-16. Tall, row of overmature, natural jack pine. Approx 80 years old.																																														
39	320 - Upland Shrub	Nonstocked	3.4	0	Immature	4222 - Natural Jack Pine	Mature jack pine. Overall stand health is good. Some budworm damage. White pine and black spruce component. High BA with lots of small diameter jack pine.  Stand harvested via clearcut : Way Up North Pine - 42-11-16. TCR Complete 8/26/2020. Site scarified 7/30/2020. Monitoring in place.																																														
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<b>40</b>	42210 - Natural Red Pine	Sawtimber Well	30.9	94	111-140	N/A	Harvested as sale #006-96-01. Completed in 1999. No records of scarification, regenerating naturally. Thicker regeneration in pockets. Good component of residual mature red pine throughout the stand. Jack pine regeneration averaging 10 ft tall.  11/23 .Stand was delineated from stand 8 to the west. Does not appear to have been harvested in 1999. Stand includes second age class of pine and regeneration that is averaging 15 feet tall Including Jack pine, red pine and white pine. Major component of overstory red and white pine that is found throughout the area along with red and white pine regen and intermediate trees. Release should initiate growth.																																																
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<b>41</b>	42200 - Natural White Pine	Sawtimber Well	11.8	76	51-80	N/A	11/23 Stand delineated from adjacent stand due to high component of natural overstory white pine. Site conditioned for natural pine guidance.																																																
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<b>42</b>	42210 - Natural Red Pine	Poletimber Well	6.0	91	1-50	N/A	Harvested in 1998, sale #016-96-01. Scarified in June 1999. Good regeneration, especially north and western portions of the stand. Scattered residual pole and log size red pine, one patch as well. Old roads are beginning to fill in with jack pine.  11/23 inventory, roads still passable, scattered residual red oak and red pine saplings. Residual Red Pine are large (18" plus) and overtop current cohort of jack pine saplings. Site conditioned for natural pine guidance.																																																
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<b>43</b>	6229 - Mixed lowland shrub	Nonstocked	13.7			No	Lowland shrub with Shelldrake River flowing through.																																																
<b>46</b>	42290 - Natural Mixed Pine	Sawtimber Well	20.2	86	111-140	N/A	Jack pine with a good component of red pine. Pockets of larger diameter red pine throughout. Areas with lots of limby jack pine. Good amount of variability in the stand.  11/23 jack pine in stand are over mature, showing signs of mortality throughout. Two age classes of red pine are present, including x-log and log size overstory trees and pole size sub canopy trees. Large white pine also found throughout.																																																
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