



# Compartment Review Presentation

Newberry Forest Management Unit

Compartment 42096

Entry Year 2023

Acreage: 1,790

County Luce

Management Area: Danaher Kingston Outwash

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**Revision Date:** 2021-12-29

**Stand Examiner:** Jennifer Burnham

**Legal Description:**

T46N R12W Sections 5, 8 & 17

**Identified Planning Goals:**

To maintain forest health, diversity and sustainability while considering wildlife, fisheries, recreation and environmental needs and concerns

**Soil and topography:**

The compartment is predominately sandy outwash plains where the topography is level to slightly rolling. The southern end of the compartment drops of the sand plains into level lowland swamp.

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

The compartment is mostly state land excluding 120 acres that is privately owned. The compartment is completely surrounded by state land. The privately owned parcels within the compartment have seasonal cabins on them and are primarily used for recreation and hunting camps. The State land in this area has been historically managed for timber production as well as providing habitat for wildlife. It has also provided opportunities for recreational activities such as hunting, snowmobiling, ORV riding, wildlife viewing and berry picking.

**Unique Natural Features:**

MNFI lists the potential for sharp-tailed grouse and grasshopper sparrow as well as some limited potential for Kirtland's warbler. Small potential for goshawk. Potential for incurvate emerald, ebony boghaunter, Frigga fritillary and Freija fritillary in bog habitat in south half of section 17. Potential for Hill's thistle and Canada rice-grass in dry grassy openings. MNFI also lists that the area west of section 5 and northwest of section 8 as being pine barrens.

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

None listed.

**Special Management Designations or Considerations:**

This compartment is part of the Danaher Plains Kingston Outwash Plains management area. The northern portions of this compartment as well as adjacent areas to it have historically been managed by the DNR for sharp-tailed grouse habitat. This was accomplished through timber harvesting efforts as well as prescribed burning to maintain openings for the grouse. These items should be considered when making management recommendations

**Watershed and Fisheries Considerations:**

**Wildlife Habitat Considerations:**

Compartment 96 lies in western Luce county in the Grand Marais Sandy End Moraine and Outwash ecological sub-section and is situated in the Danaher Kingston Plains Management Area where sharptailed grouse, Kirtland's warbler, red crossbill, bluebird, spruce grouse and sandpiper are featured species. The compartment has a large opening in the northern portion that is managed for sharptail grouse, and otherwise consists of jack pine stands, upland mixed and mixed conifer and a small amount of red pine, aspen and lowland mixed conifer. Kirtland's warbler have been recorded immediately adjacent to this compartment in the past.

Wildlife objectives will be met by clearing the large opening to maintain it as a functional opening for sharptailed grouse (featured species). Species diversity will increase wildlife diversity and thus a variety of non jack pine species will be retained after final harvests such as aspen (for food sources for birds, snags for cavity nesting birds and mammals) and maple (for multi canopy layering for nesting birds) and oak for mast production for deer and squirrels. Scattered residual red and white pine will benefit red crossbills (featured species) and black bear

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

Sections 5, 8, & 17, T46N-R12W, Luce County.

No known potential exists for commercial oil & gas production in this part of the state, and there is no known potential for metallic minerals in this area. The nearest active sand/gravel pit is five miles to the west. There may be some limited potential for sand & gravel within the compartment. No current mineral leasing activity exists in the area. The State does not own all mineral rights within the compartment. Because the mineral estate is the dominant estate, reasonable access to the surface must be provided to private owners if they choose to explore or develop their mineral rights.

**Vehicle Access:**

There are several sand two tracks leading from County Road 421 that provide relatively good access into the compartment.

**Survey Needs:**

If timber harvest treatments occur, some survey corners will need to be established in Section 17 where they interface with the interior private land parcels within the compartment.

**Recreational Facilities and Opportunities:**

There are no recreational facilities within the compartment but the opportunities that exist would be hunting, ORV riding, wildlife viewing and berry picking.

**Fire Protection:**

This compartment has potential for large fire growth. Initial attack response for the compartment is covered by the Seney Field Office Protection Area. Most of the compartment is upland sandy soils which will allow good operability of heavy equipment.

**Additional Compartment Information:**

Budworm is present in the North part of the compartment for 2021 and is the first year of documentation. Area should continue to be monitored for mortality in the stands.

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

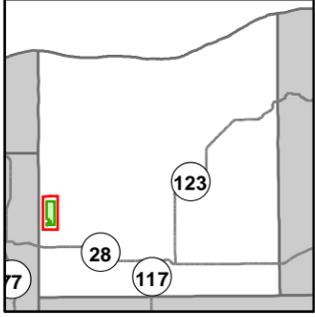
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

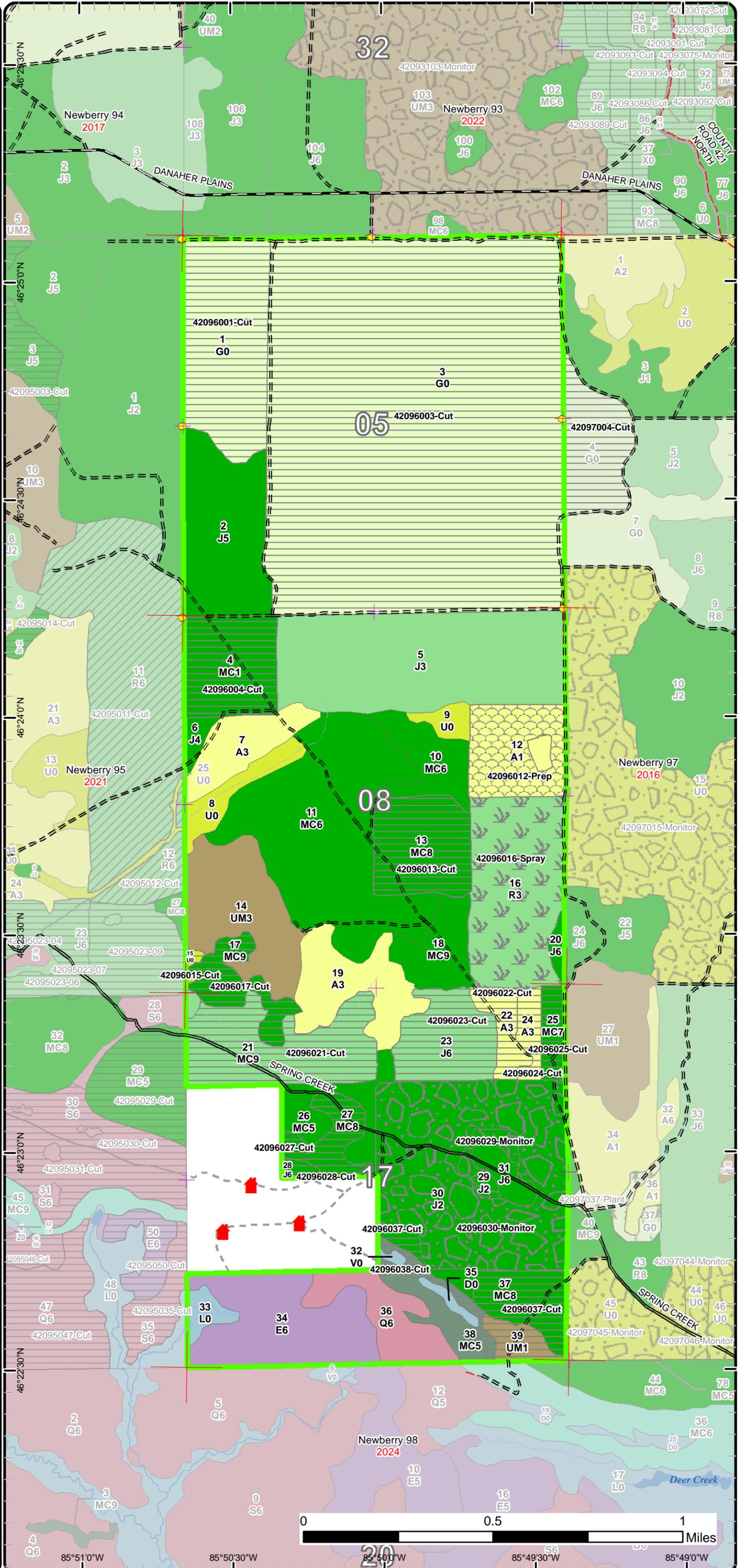
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

# Cover Type & Treatments Map

Compartment: 96  
 T46N, R12W, Sec. 5, 8, 17  
 County: Luce  
 Unit: Newberry  
 Mgmt Area: Danaher Kingston  
 Outwash  
 YOE: 2023  
 Acres: 1790.4 GIS Calculated  
 Examiner: Jennifer Burnham  
 Map Revised: 1/7/2022  
 Map Phase: Post-Review

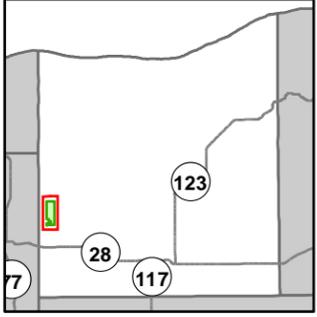


- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- ▲ Cabin
- Compartment Boundary
- Pesticide
- Clearcut (w/Reserves)
- Regeneration Survey
- Site Prep
- 413 - Aspen
- 421 - Planted Pines
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 622 - Lowland Shrub

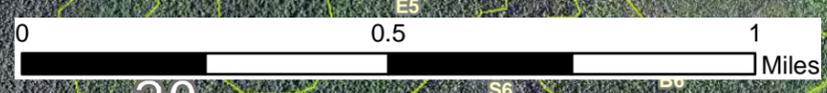
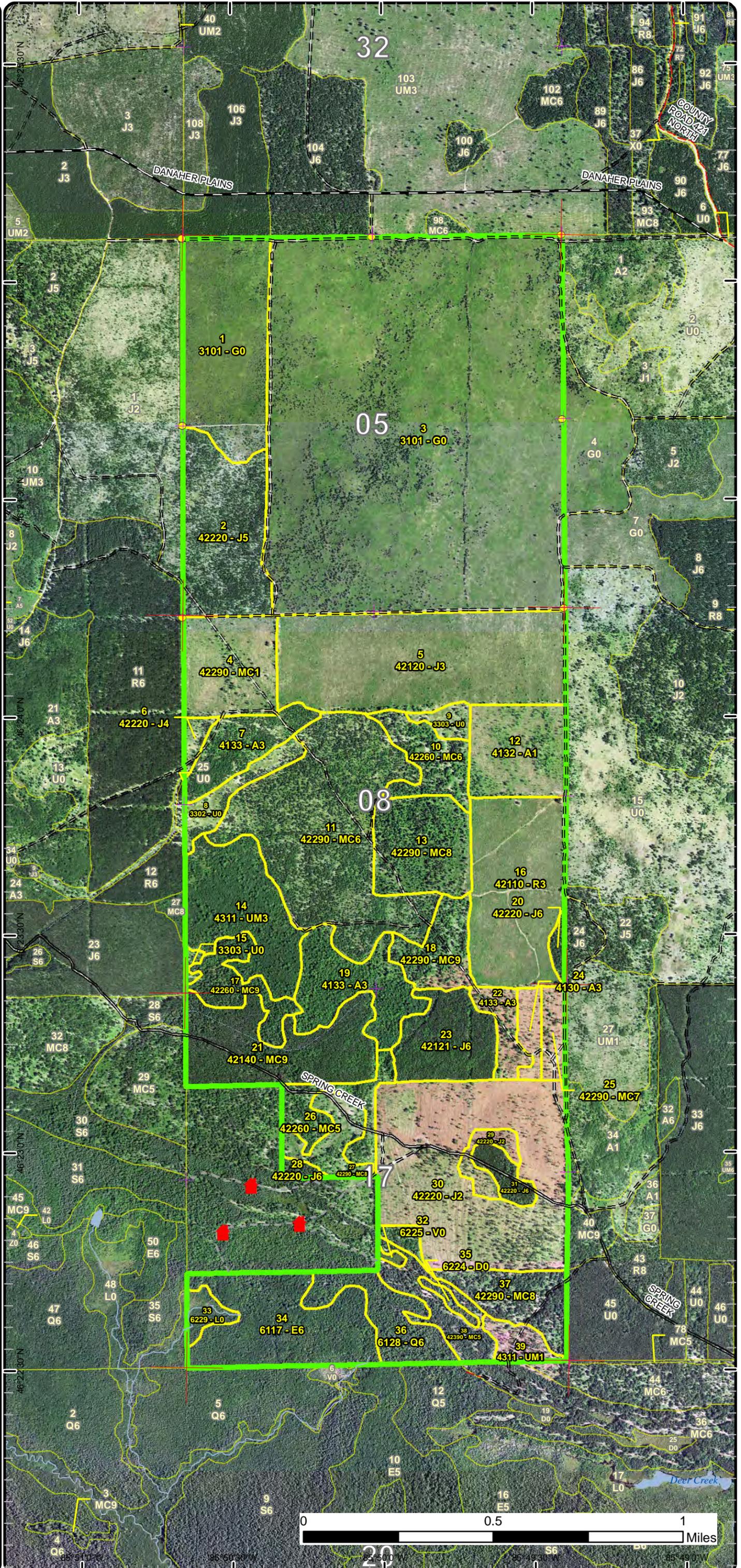


# Stand Boundary Map

Compartment: 96  
 T46N, R12W, Sec. 5, 8, 17  
 County: Luce  
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 Outwash  
 YOE: 2023  
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 Map Revised: 1/7/2022  
 Map Phase: Post-Review

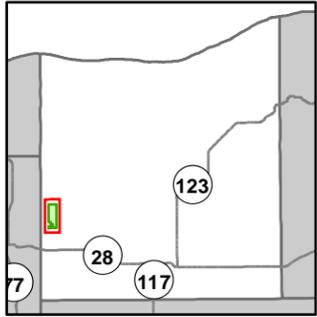


- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Cabin
- Compartment Boundary
- Stand Boundaries
- 413 - Aspen
- 421 - Planted Pines
- 422 - Natural Pines
- 423 - Other Upland Conifers
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- 612 - Lowland Coniferous Forest
- 310 - Herbaceous Openland
- 330 - Low Density Trees
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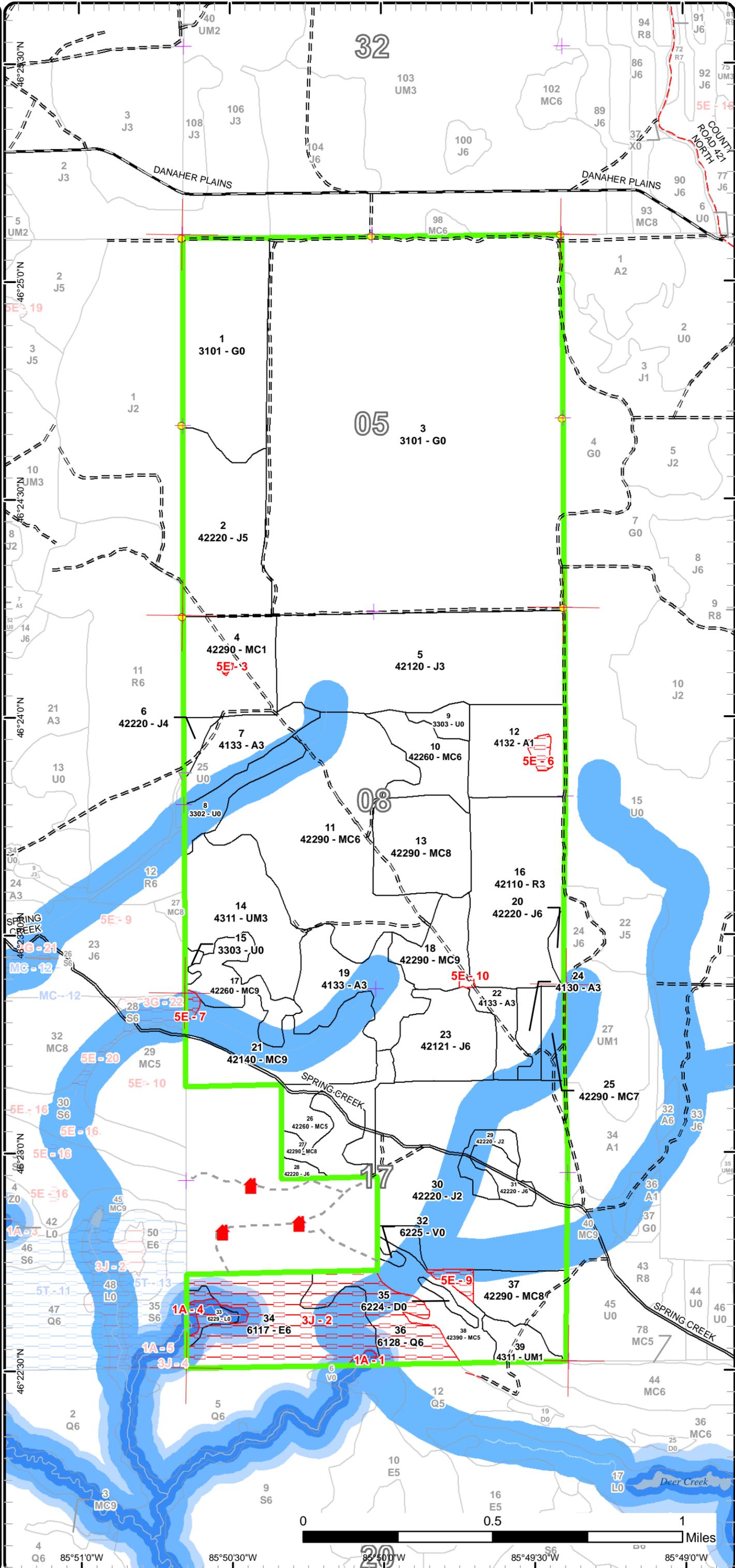


# Special Conservation Areas

Compartment: 96  
 T46N, R12W, Sec. 5, 8, 17  
 County: Luce  
 Unit: Newberry  
 Mgmt Area: Danaher Kingston  
 Outwash  
 YOE: 2023  
 Acres: 1790.4 GIS Calculated  
 Examiner: Jennifer Burnham  
 Map Revised: 1/7/2022  
 Map Phase: Post-Review



- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- ▲ Cabin
- Compartment Boundary
- Unavailable
- 1A: Federal/State/Local Law
- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention
- Stand Boundaries
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer



# Report 1 – Total Acres by Cover Type and Age Class

Newberry Mgt. Unit

Compartment 96

Year of Entry 2023

Jennifer Burnham : 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
Aspen	0	61	39	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	125
Bog	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Herbaceous Openland	575	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	575
Jack Pine	0	266	0	14	67	0	0	38	0	0	0	0	0	0	0	0	0	0	384
Low-Density Trees	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23
Lowland Conifers	0	0	0	0	0	0	0	0	0	28	0	0	0	0	0	0	0	0	28
Lowland Deciduous	0	0	0	0	0	0	0	0	0	63	0	0	0	0	0	0	0	0	63
Lowland Shrub	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
Natural Mixed Pines	0	0	42	0	127	23	0	17	21	42	10	0	0	0	0	0	0	76	358
Planted Mixed Pines	0	0	0	0	0	0	0	61	0	0	0	0	0	0	0	0	0	0	60
Red Pine	0	0	77	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	77
Treed Bog	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Upland Conifers	0	0	0	0	0	0	0	0	0	22	0	0	0	0	0	0	0	0	22
Upland Mixed Forest	0	10	0	55	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65
<b>Total</b>	<b>609</b>	<b>337</b>	<b>158</b>	<b>94</b>	<b>194</b>	<b>23</b>	<b>0</b>	<b>116</b>	<b>21</b>	<b>64</b>	<b>101</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>76</b>	<b>1791</b>



## Report 2 – Treatment Summary

Newberry Mgt. Unit

Year of Entry: 2023

Acres of Harvest

Compartment 96

Total Compartment Acres: 1,790

Commercial Harvest - 872  
 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	Overstory Removal	Salvage	Other	Total Acres
Aspen	21	0	0	0	0	0	0	0	0	21
Herbaceous Openland	575	0	0	0	0	0	0	0	0	575
Jack Pine	38	0	0	0	0	0	0	0	0	38
Low-Density Trees	2	0	0	0	0	0	0	0	0	2
Natural Mixed Pines	159	0	0	0	0	0	0	0	0	159
Planted Mixed Pines	59	0	0	0	0	0	0	0	0	59
Upland Conifers	8	0	0	0	0	0	0	0	0	8
Upland Mixed Forest	10	0	0	0	0	0	0	0	0	10
<b>Total</b>	<b>872</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>872</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	872	37	0	0	0	77	143	0	0	1129
Next Step	0	443	325	0	0	627	1027	0	0	2422
<b>Total</b>	<b>872</b>	<b>480</b>	<b>325</b>	<b>0</b>	<b>0</b>	<b>704</b>	<b>1170</b>	<b>0</b>	<b>0</b>	<b>3551</b>



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

<b>1</b>	<b>42096001-Cut</b>	78.8	3101 - Poverty Grass, Cladonia	Nonstocked		Immature	Harvest	Clearcut	211 - Cropland		No
<p><u>Prescription</u> Final harvest removing all trees to maintain opening.  <u>Specs:</u>  <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)  <u>Treatments:</u>  <u>Acceptable</u> No regeneration is desired.  <u>Regen:</u>  <u>Other</u>  <u>Comment:</u>  <u>Site Condition</u>  <u>Proposed Start Date:</u> 10/1 /2021</p>											
<b>3</b>	<b>42096003-Cut</b>	496.4	3101 - Poverty Grass, Cladonia	Nonstocked		Immature	Harvest	Clearcut	211 - Cropland		No
<p><u>Prescription</u> Final harvest removing all trees to maintain opening.  <u>Specs:</u>  <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)  <u>Treatments:</u>  <u>Acceptable</u> No regeneration is desired.  <u>Regen:</u>  <u>Other</u> This prescription also includes stand 4 in compartment 97.  <u>Comment:</u>  <u>Site Condition</u>  <u>Proposed Start Date:</u> 10/1 /2021</p>											
<b>4</b>	<b>42096004-Cut</b>	41.0	42290 - Natural Mixed Pine	Sapling Poor	15	1-50	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Harvest all species down to a 2" spec. except for patch in the middle. Leave any oak within the patch retention and non-red pine in the red line. Trench and plant to red pine.  <u>Specs:</u>  <u>Next Step</u> Monitoring, Artificial Regen(1yr); Pesticide, Skidder - Site Prep; Pesticide, Aerial - Site Prep; Pesticide, Skidder - Release; Pesticide, <u>Treatments:</u> Aerial - Release; SitePrep, Trenching; Planting, Initial Plant; Planting, Initial Plant; SitePrep, T  <u>Acceptable</u> Red pine  <u>Regen:</u>  <u>Other</u> Spraying may be necessary.  <u>Comment:</u>  <u>Site Condition</u>  <u>Proposed Start Date:</u> 10/1 /2022</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>12 42096012-Prep</b>	36.7	4132 - Aspen, Jack Pine	Sapling Poor	7	1-50	SitePrep	Roller Chopping	4222 - Natural Jack Pine	Even-Aged	No
<p><u>Prescription</u> Roller chop area except for big knob on East side. Trench and plant jack pine.  <u>Specs:</u></p> <p><u>Next Step</u> Planting, Initial Plant; Monitoring, Artificial Regen(1yr); SitePrep, Trenching  <u>Treatments:</u></p> <p><u>Acceptable</u> Jack pine  <u>Regen:</u></p> <p><u>Other</u> Spraying may be necessary.  <u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										
<b>13 42096013-Cut</b>	41.5	42290 - Natural Mixed Pine	Sawtimber Medium	89	81-110	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Final harvest, cut all species down to a 2" spec. and replant to red pine. Leave any oak within the patch retention and leave oak and non-red pine in boundary line.  <u>Specs:</u></p> <p><u>Next Step</u> SitePrep, Trenching; Monitoring, Artificial Regen(1yr); Pesticide, Aerial - Release; Pesticide, Skidder - Release; Monitoring, Artificial  <u>Treatments:</u> Regen(1yr)</p> <p><u>Acceptable</u> Red pine. Species other than red pine should make up less than 10 BA of total BA.  <u>Regen:</u></p> <p><u>Other</u> Not recommending scarification due to the failures of other stands in this compartment from 2013.  <u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										
<b>15 42096015-Cut</b>	1.8	3303 - Mixed Low Density Trees	Nonstocked		Unspec ified	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Final harvest down to a 2" DBH, leaving any oak that is present. Place residual leave trees of other represented species in the red line.  <u>Specs:</u></p> <p><u>Next Step</u> SitePrep, Trenching; Planting, Initial Plant; Pesticide, Aerial - Site Prep; Monitoring, Artificial Regen(1yr)  <u>Treatments:</u></p> <p><u>Acceptable</u> Red pine  <u>Regen:</u></p> <p><u>Other</u>  <u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										
<b>16 42096016-Spray</b>	76.7	42110 - Planted Red Pine	Sapling Well	10	Immature	Pesticide	ERROR	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Release spray and monitor in 3 years.  <u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Artificial Regen(3yr)  <u>Treatments:</u></p> <p><u>Acceptable</u>  <u>Regen:</u></p> <p><u>Other</u>  <u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</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>17 42096017-Cut</b>	20.9	42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	71	81-110	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Final harvest down to a 2" DBH. Place residual leave trees of represented species in the red line. Leave any oak within the patch retention.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> SitePrep, Trenching; Pesticide, Aerial - Site Prep; Planting, Initial Plant; Monitoring, Artificial Regen(1yr)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Red pine</p> <p><u>Regen:</u></p> <p><u>Other</u> Retention is preferred on the north side because stand 21 is also being harvested and sprayed.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										
<b>21 42096021-Cut</b>	59.0	42140 - Planted Mixed Pine	Sawtimber Well	62	81-110	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Final harvest down to a 2" DBH, Retention of species in the south boundary line to include leaving oak and leave oak within the retention pockets. Leave non-pine in the red line.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Pesticide, Skidder - Release; Pesticide, Aerial - Release</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Red pine</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										
<b>22 42096022-Cut</b>	12.5	4133 - Aspen, Mixed Pine	Sapling Well	6	1-50	Harvest	Clearcut	4212 - Planted Jack Pine	Even-Aged	No
<p><u>Prescription</u> Harvest all species down to a 2" spec. except for oak on the boundary. Trench and plant to jack pine. Leave all oak.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> ; ; SitePrep, Trenching; Monitoring, Artificial Regen(1yr); Planting, Initial Plant; SitePrep, Roller Chopping; Pesticide, Skidder - Site</p> <p><u>Treatments:</u> Prep</p> <p><u>Acceptable</u> Jack pine</p> <p><u>Regen:</u></p> <p><u>Other</u> Retention if needed will be considered the NW area of stand 22 that was added into stand 18 due to high BA of residual and conifer.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										
<b>23 42096023-Cut</b>	35.3	42121 - Planted Jack Pine, Mixed Deciduous	Poletimber Well	62	51-80	Harvest	Clearcut	4212 - Planted Jack Pine	Even-Aged	No
<p><u>Prescription</u> Harvest all species down to a 2" spec. except for oak on the boundary. Trench and plant to jack pine. Herbicide if necessary, trench, and replant to JP. Leave all oak.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> SitePrep, Trenching; ; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Pesticide, Skidder - Site Prep; SitePrep, Roller Chopping</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Jack pine</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</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>24 42096024-Cut</b>	8.9	4130 - Aspen	Sapling Well	6	1-50	Harvest	Clearcut	4212 - Planted Jack Pine	Even-Aged	No
<p><u>Prescription</u> Harvest all species down to a 2" spec. except for oak on the boundary. Trench and plant to jack pine. Leave all oak.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> SitePrep, Trenching; Monitoring, Artificial Regen(1yr); Planting, Initial Plant; SitePrep, Roller Chopping; ; Pesticide, Skidder - Site Prep</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Jack pine</p> <p><u>Regen:</u></p> <p><u>Other</u> Retention if needed will be considered the NW area of stand 22 that was added into stand 18 due to high BA of residual and conifer.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										
<b>25 42096025-Cut</b>	9.8	42290 - Natural Mixed Pine	Sawtimber Poor	90	1-50	Harvest	Clearcut	4212 - Planted Jack Pine	Even-Aged	No
<p><u>Prescription</u> Harvest all species down to a 2" spec. except for oak on the boundary. Trench and plant to jack pine. Leave all oak.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> ; ; SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); SitePrep, Roller Chopping; Pesticide, Skidder - Site</p> <p><u>Treatments:</u> Prep</p> <p><u>Acceptable</u> Jack pine.</p> <p><u>Regen:</u></p> <p><u>Other</u> Retention if needed will be considered the NW area of stand 22 that was added into stand 18 due to high BA of residual and conifer.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										
<b>27 42096027-Cut</b>	17.3	42290 - Natural Mixed Pine	Sawtimber Medium	60	1-50	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Final harvest down to a 2" DBH, Leave oak along the west and south boundary. Leave retention pocket with diverse species. Retention</p> <p><u>Specs:</u> located along edges – no more than 3 percent</p> <p><u>Next Step</u> SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Pesticide, Skidder - Release</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Red pine</p> <p><u>Regen:</u></p> <p><u>Other</u> Retention for stands 27, 27, and 28 will be in the area between stands 21 and 23.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										
<b>28 42096028-Cut</b>	2.9	42220 - Natural Jack Pine	Poletimber Well	60	51-80	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Final harvest down to a 2" DBH, Leave oak along the west and south boundary. Leave retention pocket with diverse species. Retention</p> <p><u>Specs:</u> located along edges – no more than 3 percent</p> <p><u>Next Step</u> SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Pesticide, Skidder - Release</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Red pine</p> <p><u>Regen:</u></p> <p><u>Other</u> Retention for stands 27, 27, and 28 will be in the area between stands 21 and 23.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</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>29 42096029-Monitor</b>	8.5	42220 - Natural Jack Pine	Sapling Medium	7	1-50	Monitoring	Artificial Regen(3yr)	4222 - Natural Jack Pine	Even-Aged	No
<p><u>Prescription</u> Monitor in 2024</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> <p><u>Other</u> Jack pine trees/acre are borderline. If more JP have not seeded in from the scarification in three years other treatments will be needed to</p> <p><u>Comment:</u> make a fully stocked stand.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										
<b>30 42096030-Monitor</b>	134.3	42220 - Natural Jack Pine	Sapling Medium	7	1-50	Monitoring	Artificial Regen(3yr)	4212 - Planted Jack Pine	Even-Aged	No
<p><u>Prescription</u> Monitor in 2024.</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> <p><u>Other</u> Jack pine trees/acre are borderline. If more JP have not seeded in from the scarification in three years other treatments will be needed to</p> <p><u>Comment:</u> make a fully stocked stand.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										
<b>37 42096037-Cut</b>	28.4	42290 - Natural Mixed Pine	Sawtimber Medium	86	51-80	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Harvest all species down to a 2" spec. except for oak on the boundary. Trench and plant to red pine. Purchased land portion of stand is</p> <p><u>Specs:</u> being left for retention for wildlife benefit.</p> <p><u>Next Step</u> Pesticide, Aerial - Site Prep; Pesticide, Aerial - Release; Pesticide, Skidder - Site Prep; Pesticide, Skidder - Release; SitePrep,</p> <p><u>Treatments:</u> Trenching; Planting, Initial Plant; ; Monitoring, Artificial Regen(1yr)</p> <p><u>Acceptable</u> Red pine</p> <p><u>Regen:</u></p> <p><u>Other</u> Large retention pocket is between the two sections of the harvest.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										
<b>38 42096038-Cut</b>	8.2	42390 - Mixed Non-Pine Upland Conifers	Poletimber Medium	86	51-80	Harvest	Clearcut with Retention	429 - Mixed Upland Conifers	Even-Aged	No
<p><u>Prescription</u> Final harvest down to a 2" DBH, leaving all hemlock, cedar, and white pine over 18" DBH. Avoid wet, soft ground to prevent rutting.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Species that are currently present.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</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>39 42096039-Cut</b>	9.7	4311 - Pine, Aspen Mix	Sapling Poor	7	1-50	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Harvest all species down to a 2" spec. except for oak on the boundary. Leave any oak within the patch retention and non-red pine in the red line. Trench and plant to red pine.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> SitePrep, Trenching; Planting, Initial Plant; Pesticide, Aerial - Release; Monitoring, Artificial Regen(1yr); Pesticide, Skidder - Release; <u>Treatments:</u> Pesticide, Aerial - Site Prep; Pesticide, Skidder - Site Prep; SitePrep, Roller Chopping</p> <p><u>Acceptable</u> Red pine</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										
<b>4 42097004-Cut</b>	37.6	3101 - Poverty Grass, Cladonia	Nonstocked		Unspec ified	Harvest	Clearcut	211 - Cropland		No
<p><u>Prescription</u> Final harvest and leave no retention to maintain opening.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> No regeneration is desired to maintain opening.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										

**Total Treatment** 1166.2  
**Acres Proposed:**

## Report 4 – Site Conditions

Newberry Mgt. Unit  
Jennifer Burnham : Examiner

Compartment: 96  
Year of Entry: 2023

### Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions		
		With Condition	Not Available		1A	3J	5E
125	122	0	3	Aspen			3
1	1	0	0	Bog			
575	575	0	0	Herbaceous Openland			
384	384	0	0	Jack Pine			
23	23	0	0	Low-Density Trees			
28	0	0	28	Lowland Conifers		28	
63	0	0	63	Lowland Deciduous	2	61	
7	0	0	7	Lowland Shrub	4	3	
357	353	0	5	Natural Mixed Pines			5
60	59	0	1	Planted Mixed Pines			1
77	77	0	0	Red Pine			
3	3	0	0	Treed Bog			
22	22	0	0	Upland Conifers			
64	64	0	0	Upland Mixed Forest			
1,790	1,683		107	Total Forested Acres	6	92	9
	94%		6%	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	1A: Federal/State/Local Law	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Fox River natural river 100' zone.							
2	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	92	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Newberry Mgt. Unit  
Jennifer Burnham : Examiner

Compartment: 96  
Year of Entry: 2023

3	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
4	Unavailable	1A: Federal/State/Local Law	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Fox River natural river 100' zone.							
6	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
7	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
9	Unavailable	5E: Long-Term Retention	3	3L: Other wildlife concerns	Unspecified	Unspecified	Unspecified
<b>Comments:</b> PR portion of stand is being left for retention for wildlife benefit.							
10	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Retention for stands 22, 24, and 25.							

Mgt. Unit

Compartment: #Type!

Year of Entry:



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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments

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## Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

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

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

Conservation Area	Type	Description
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in which the terrestrial ecosystem influences the aquatic ecosystem and vice-versa. Because of the unique conditions adjacent to lakes, streams and open water wetlands, riparian areas harbor a high diversity of plants and wildlife. Riparian communities are ecologically and socially significant in their effects on water quality and quantity, as well as aesthetics, habitat, bank stability, timber production, and their contribution to overall biodiversity.
HCVA	Natural Rivers	There are two Natural Rivers datasets which are derived from spatial buffers set from an established and approved distance from the river centerlines. The Natural Rivers Zoning District is a 400 foot buffer for most Natural Rivers. The Vegetative Buffer ranges from 25 to 100 feet. To view specific Zoning Districts and Vegetative Buffers for each Natural River see the table located on the I:\Documentation\GDSE data folder.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments					
1	3101 - Poverty Grass, Cladonia	Nonstocked	78.8		Immature	Managed Opening	JP from previous burn 1-3ft tall. scattered through stand. Good fuel bed of grasses, stand could carry fire again. could harvest and plant or burn. same with stands 2 and 3. Burned 6/9/15 under FTP 42-872.					
								Sub-Canopy Species	Density	Avg. Height	Size	
								Fescue	Trace		Non-Wood	
								Black Cherry	Low	5 - 10 feet	Sapling	
								Red Maple	Trace	5 - 10 feet	Sapling	
								Quaking Aspen	Low	5 - 10 feet	Sapling	
								Sweet Fern	Low	< 5 feet	Tall Shrub	
								Jack Pine	Low	Variable	Sapling	
								Red Pine	Trace	>20 feet	Pole	
								Blueberry/Bilberry/Cranberry	Medium	< 5 feet	Tall Shrub	
								Poverty Grass	High		Non-Wood	
Willow spp.	Trace	5 - 10 feet	Tall Shrub									
2	42220 - Natural Jack Pine	Poletimber Medium	62.9	30	1-50	N/A	Stand is doing well with more trees in pole class. Height hasn't increased though.  (2013 OI) Stand consists of jack pine approximately 15-25' tall 2-4" DBH with a grass understory. Area was burned in May of 1991. Area has filled in with jack pine regeneration.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Red Maple	5	Sapling	4	
								Quaking Aspen	15	Sapling	4	
								Jack Pine	75	Pole/Sapling	5	30
								Black Cherry	5	Sapling	4	
Sub-Canopy Species	Density	Avg. Height	Size									
Serviceberry (Juneberry)	Low	5 - 10 feet	Tall Shrub									
Sweet Fern	Low	< 5 feet	Tall Shrub									
Hazelnut (American)	Low	5 - 10 feet	Tall Shrub									
3	3101 - Poverty Grass, Cladonia	Nonstocked	496.4		Immature	Managed Opening	JP from previous burn 1-3ft tall. scattered through stand. Good fuel bed of grasses, stand could carry fire again. could harvest and plant or burn. same with stands 2 and 3. Burned 6/9/15 under FTP 42-872.					
								Sub-Canopy Species	Density	Avg. Height	Size	
								Poverty Grass	High		Non-Wood	
								Fescue	Trace		Non-Wood	
								White Pine	Trace	5 - 10 feet	Sapling	
								Jack Pine	Medium	Variable	Sapling	
								Willow spp.	Trace	5 - 10 feet	Tall Shrub	
								Quaking Aspen	Low	5 - 10 feet	Sapling	
								Red Maple	Low	5 - 10 feet	Sapling	
								Bigtooth Aspen	Low	5 - 10 feet	Sapling	
								Blueberry/Bilberry/Cranberry	Medium	< 5 feet	Tall Shrub	
								Red Pine	Low	>20 feet	Pole	
								Black Cherry	Low	10 - 20 feet	Sapling	
								Sweet Fern	Low	< 5 feet	Tall Shrub	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																								
4	42290 - Natural Mixed Pine	Sapling Poor	41.5	15	1-50	N/A	Scarification was not successful.																																																								
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5	42120 - Planted Jack Pine	Sapling Well	122.5	8	Immature	N/A	JP is 4-6 ft tall, looks good. 06/12/18- JP TPA= 686, Aspen component. Fully stocked.																																																								
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7	4133 - Aspen, Mixed Pine	Sapling Well	25.3	27	1-50	N/A	Good diversity, healthy stand.																																																								
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8	3302 - Low Density Conifer Trees	Nonstocked	14.5		Immature	No	Small slope area filling in with a variety of species.																																																																								
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10	42260 - Natural Pine, Mixed Deciduous	Poletimber Well	23.1	45	1-50	N/A	Trees putting on diameter, healthy with good variety. Hold 10 more years for treatment.																																																																								
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		(2013 )OIStand is a mixed bag of species. Red/white/jack pine along with aspen and a few larger red maple. Stand varies in age classes and density and is regenerating to gradually fill more of the stand in with no real discernable age class.																																																																													
11	42290 - Natural Mixed Pine	Poletimber Well	127.1	36	81-110	N/A	(2013 OI) Stand mostly jack pine with a mix of white pine and aspen. Grasses, bracken fern, sweet fern and rough fescue present. Most of area was roller chopped in the early 90's.																																																																								
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
12	4132 - Aspen, Jack Pine	Sapling Poor	39.6	7	1-50	N/A	(2013)Stand was planted in 1959. Scattered red maple throughout. Could possibly treat this stand, the trees are large enough for commercial harvest. Recommend leaving for another 10 years to let trees get larger as well as letting the surrounding stands that were recently harvested get established. 2016: sale completed. 42-010-13-01, Spring Creek 80. TCR 07/14/2015. 2016: Stand scarified as FTP# C42-833	
Canopy Species		% Cover	Size Class	DBH	Age			
Red Maple		10	Pole	8	52			
Jack Pine		20	Sapling	1				
Bigtooth Aspen		10	Pole	6				
Quaking Aspen		40	Sapling	1	7			
White Pine		20	Pole	8				
13	42290 - Natural Mixed Pine	Sawtimber Medium	41.5	89	81-110	N/A	This land was purchased in 1998. Stand harvested on 2003 TS#003-03-01. Red and white pine were left as residual. Stand was scarified in 2004 FTP# 42-581. Regeneration count completed 4/25/2007 = 920 t/ac (293 A,451 M,117 W,59 R). Secondary regeneration count done again on 6/5/08 = 521 t/ac (98J 1' ht, 130W, 293A). Stand has regenerated, jack pine came in better in open areas now 3-5' tall. Pockets of mature red and white pine in stand.	
Canopy Species		% Cover	Size Class	DBH	Age			
Red Maple		5	Pole	6	30			
Quaking Aspen		5	Pole	6	16			
White Pine		40	Log	16				
Red Pine		50	Log	14	89			
Sub-Canopy Species		Density	Avg. Height	Size				
Red Maple		Low	< 5 feet	Sapling				
Red Oak		Low	< 5 feet	Seeding				
Bigtooth Aspen		Low	10 - 20 feet	Sapling				
Jack Pine		Low	5 - 10 feet	Sapling				
Black Cherry		Low	< 5 feet	Sapling				
Blueberry/Bilberry/Cranberry		Low	< 5 feet	Tall Shrub				
Hazelnut (American)		Low	< 5 feet	Tall Shrub				
White Pine		Low	5 - 10 feet	Sapling				
14	4311 - Pine, Aspen Mix	Sapling Well	54.6	26	51-80	N/A	Stand was harvested in 1995 - sale #028-95. They harvested all species except white/red pine, oak. Some scattered red maple left in overstory as well. Stand is regenerating to aspen with a mix of white pine and jack pine.	
Canopy Species		% Cover	Size Class	DBH	Age			
Red Oak		5	Pole/Sapling	8				
Quaking Aspen		20	Sapling	2				
Bigtooth Aspen		30	Sapling	3	26			
White Pine		20	Log/Pole	12	89			
Red Pine		15	Log/Pole	12				
Jack Pine		10	Pole/Sapling	5				
Sub-Canopy Species		Density	Avg. Height	Size				
Red Maple		Medium	5 - 10 feet	Sapling				
Quaking Aspen		High	10 - 20 feet	Sapling				
Bigtooth Aspen		High	10 - 20 feet	Sapling				
Jack Pine		Medium	5 - 10 feet	Sapling				
Black Cherry		Low	5 - 10 feet	Sapling				
Serviceberry (Juneberry)		Low	5 - 10 feet	Tall Shrub				
15	3303 - Mixed Low Density Trees	Nonstocked	1.8		Unspecified	No		
Sub-Canopy Species		Density	Avg. Height	Size				
Red Pine		Low		Log				
Jack Pine		Low		Sapling				
Blueberry/Bilberry/Cranberry		Medium		Tall Shrub				
White Pine		Low		Log				
Black Cherry		Low		Sapling				
Red Maple		Low		Sapling				
Bigtooth Aspen		Low		Sapling				
Serviceberry (Juneberry)		Low		Tall Shrub				



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<b>16</b>	42110 - Planted Red Pine	Sapling Well	76.7	10	Immature	N/A	Red pine good about 2-3ft in height. Many deciduous stems 5-15 ft tall above pine. fairly wide spread. Should this be sprayed again?																																																																					
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							Regen survey summer 2017: 657 Trees per acre. red pine																																																																					
<b>17</b>	42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	20.9	71	81-110	N/A	Treatment on stand is the area not previously harvested with the sale. (2013)Part of stand was treated "Spring Creek Aspen" (004-03-01). Completed 12/10/03. Red pine and white pine were left as well as a few white birch seed trees. Aspen regeneration throughout. White pine saplings present as well. Stand is a two storied stand now with aspen in the lower storied.																																																																					
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<b>18</b>	42290 - Natural Mixed Pine	Sawtimber Well	22.7	62	81-110	N/A	BA averages 70-100. Fair to poor quality, wait 10 years to harvest.																																																																					
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<b>19</b>	4133 - Aspen, Mixed Pine	Sapling Well	39.1	14	Unspecified	N/A	Aspen regeneration looks good. There is nice oak and conifer also coming up with the aspen. Stand harvested as "Spring Creek Aspen" (004-03-01). Completed 12/10/03. Stand is now mostly aspen and white pine regeneration. Overstory of white pine, red pine, red maple, oak and paper birch left as residual from sale.																																																																					
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																															
20	42220 - Natural Jack Pine	Poletimber Well	3.5	36	1-50	N/A	Jack pine in stand is approx. 20-40' tall 3-7"DBH. Some white pine regeneration present also. Canopy is brown and shows signs of budworm in the stand. Continue to monitor for mortality.																																															
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21	42140 - Planted Mixed Pine	Sawtimber Well	60.5	62	81-110	N/A	Jack pine crowns are failing and there is mortality in the stand. There is mortality, possibly due to high water and/or age, in the NW part of the stand.  (2013)Stand is a jack pine plantation - planted in 1959. It has an aspen component. Also has a mix of birch, red and white pine. They planted through and around the aspen/pine trees that were here at that time. Jack pine is growing up nicely. Aspen is beginning to show signs of decline.																																															
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22	4133 - Aspen, Mixed Pine	Sapling Well	12.5	6	1-50	N/A	(2013 OI) Stand is a mixed bag of tree species of most all size classes. Tree spp. include mixed aspen, red/white/jack pine, red maple and paper birch. Mostly aspen and pine spp. regenerating. Some oak seedlings present also. Some areas of stand are open with bracken fern, grasses and hazel in the understory. In areas where there is aspen in the overstory, white pine seems to be regenerating nicely in the understory.  (2015) - Stand was treated with Tsale#420111301 Corn Feeder Jack Pine TCR 1/28/16. A scattering of residual RP, WP and oak left as residual.																																															
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23	42121 - Planted Jack Pine, Mixed Deciduous	Poletimber Well	35.3	62	51-80	N/A	Tops are thinning and stand is starting to break up and losing BA. Came back through in the summer and there are areas of budworm.  (2013 OI) Stand is a jack pine plantation - planted in 1959. It has an aspen component. Also has a mix of birch, red and white pine. They planted through and around the aspen/pine trees that were here at that time. Jack pine is growing up nicely. Aspen is beginning to show signs of decline.																																															
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24	4130 - Aspen	Sapling Well	8.9	6	1-50	N/A	Jack pine is not regenerating.  (2015) - Stand was treated with TSale#420111301 TCR1/28/16 (2013 OI)Stand is a jack pine plantation - planted in 1959. It has an aspen component. Also has a mix of red and white pine, aspen, red maple and oak. Jack pine is growing up nicely. Aspen is beginning to show signs of decline.																																															
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**25** 42290 - Natural Mixed Pine Sawtimber Poor 9.8 90 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age
White Pine	50	Pole/Log	8	90
Red Pine	50	Pole/Log	8	

Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	Medium	5 - 10 feet	Sapling
Red Maple	Medium	5 - 10 feet	Sapling
Quaking Aspen	Low	5 - 10 feet	Sapling
Jack Pine	Low	< 5 feet	Sapling
Paper Birch	Low	5 - 10 feet	Sapling
Red Oak	Low	Variable	Sapling

Stand is mix of species (red/white/jack pine and aspen) that vary in size, density and age. Jack pine was planted. Looks as though jack pine planted through and around the some red and white pine trees that were here at that time, and some are older.

(2015) - Stand was treated with TSale#420111301. TCR 1/28/16 There is a scattering of residual RP, WP and oak trees left as residual. Regen check summer 2017. Red Maple: 685 trees/acre, Red Oak: 186 trees/acre, White Birch: 62 trees/acre, Big-toothed Aspen: 498 trees/acre.

**26** 42260 - Natural Pine, Mixed Deciduous Poletimber Medium 21.6 60 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	5	Pole/Sapling	8	
Red Oak	20	Pole/Sap/Log	9	
Bigtooth Aspen	5	Sapling/Pole	6	
White Pine	20	Pole/Log/Sap	10	
Red Pine	45	Pole/Log/Sap	10	60
Jack Pine	5	Pole/Sapling	7	

Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	Low	5 - 10 feet	Sapling
White Pine	Low	Variable	Sapling
Red Pine	Low	10 - 20 feet	Pole
Jack Pine	Low	5 - 10 feet	Sapling
Black Cherry	Low	Variable	Sapling
Red Oak	Low	5 - 10 feet	Sapling

(2013)Stand is filling in with various tree species - Oak, red maple, red/white/jack pine and mixed aspen. Some sawlog sized pine present. Stand is an opeing that is filling in over time. There are a variety of tree sizes from sawlog to sapling in the red and white pine with no real descernable age class. The oak in here are decent with fairly large crowns - good mast trees.

**27** 42290 - Natural Mixed Pine Sawtimber Medium 17.3 60 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age
White Pine	35	Log/Pole	12	
Red Pine	35	Log/Pole	12	60
White Spruce	5	Pole/Sapling	7	
Jack Pine	10	Pole	6	
Red Maple	10	Pole	7	
Bigtooth Aspen	5	Pole	8	

**28** 42220 - Natural Jack Pine Poletimber Well 2.9 60 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	5	Pole	7	
Black Spruce	15	Pole	7	60
White Pine	5	Log	14	
Red Pine	5	Log	14	
Jack Pine	70	Pole	8	60

Spruce and jack pine crowns are starting to break apart.





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																	
<b>29</b>	42220 - Natural Jack Pine	Sapling Medium	8.5	7	1-50	N/A	(2015) Stand was treated with TSale#420111301. TCR 1/28/16.																																																	
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<b>30</b>	42220 - Natural Jack Pine	Sapling Medium	134.3	7	1-50	N/A	(2017)Stand is a jack pine plantation - planted in 1959. It has an aspen component. Also has a mix of red and white pine. Occasional large red and white pine that is older that they planted through and around. Jack pine is growing up nicely. Aspen is beginning to show signs of decline.  (2015) - Stand was treated with TSale#420111301 Corn Feeder Jack Pine. TCR# 1/28/16 There is a scattering of residual trees, RP, WP and PB left after the harvest.																																																	
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<b>31</b>	42220 - Natural Jack Pine	Poletimber Well	9.0	27	Unspecified	N/A	Stand coming into pole size.  (2013)Area was cut and scarified in 1984. Jack pine came back thick. Is now 10-30' tall 3-5"DBH.																																																	
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<b>32</b>	6225 - Bog	Nonstocked	1.3		Unspecified	No																																																		
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<b>33</b>	6229 - Mixed lowland shrub	Nonstocked	7.1		Unspecified	No	Some mortality in the saplings from high water.																																																	
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**34** 6117 - Lowland Deciduous, Mixed Coniferous Poletimber Well 63.1 94 81-110 N/A Drainages are dry this summer, road is skinny but has UTV use.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	30	Pole	9	94
Paper Birch	30	Pole	8	
Balsam Fir	2	Pole/Sapling	7	
Black Spruce	10	Pole/Sapling	7	
Northern White Cedar	15	Pole/Sap/Log	8	
Tamarack	3	Log/Pole	10	
White Pine	5	Log/XLog	18	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Medium	Variable	Sapling
Balsam Fir	Medium	Variable	Sapling
Black Spruce	Medium	Variable	Sapling
Northern White Cedar	Low	Variable	Sapling
White Pine	Low	10 - 20 feet	Sapling
Tag Alder	Medium	5 - 10 feet	Tall Shrub

(2013)Stand is lowland hardwoods/conifers. Stand is situated mostly on low ground where some areas looks to be very wet at times. Some small intermittent drainages present throughout stand and it may prove difficult to treat due to nature of ground, it would need to be treated in winter if harvested. There is a small sand ridge running the length of the stand where there is an old road evident. Stand falls in the E. Branch Fox River watershed.

**35** 6224 - Treed Bog Nonstocked 3.0 Unspecified No

Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	Medium		Sapling
Tamarack	Medium		Sapling

**36** 6128 - Lowland Coniferous, Mixed Deciduous Poletimber Well 28.3 94 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	10	Pole/Sapling	8	
Paper Birch	15	Pole/Sap/Log	8	
Black Spruce	40	Pole/Sapling	8	94
Northern White Cedar	20	Pole/Sap/Log	8	
Tamarack	5	Pole/Log/Sap	10	
White Pine	5	Log/XLog	18	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Low	10 - 20 feet	Sapling
Balsam Fir	Low	5 - 10 feet	Sapling
Black Spruce	Medium	5 - 10 feet	Sapling
Northern White Cedar	Low	10 - 20 feet	Pole
Tag Alder	Medium	5 - 10 feet	Tall Shrub

Low ground. Lowland conifers of mixed ages. Cedar, spruce, white pine, hemlock, paper birch, red maple present. Thick tag alder in places along with balsam fir/cedar reproduction. Stand is of special concern because it is in low ground and falls in E. Branch Fox River watershed.

**37** 42290 - Natural Mixed Pine Sawtimber Medium 31.7 86 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Oak	15	Pole/Log/Sap	10	
Bigtooth Aspen	10	Pole/Sapling	6	30
White Pine	30	Log/Pole/Sap	12	
Red Pine	40	Log/Pole/Sap	12	86
Jack Pine	5	Pole/Sapling	7	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Low	5 - 10 feet	Sapling
Paper Birch	Low	5 - 10 feet	Sapling
Bigtooth Aspen	Low	10 - 20 feet	Sapling
Balsam Fir	Low	< 5 feet	Seeding
White Pine	Medium	Variable	Sapling
Jack Pine	Low	5 - 10 feet	Sapling
Red Oak	Low	5 - 10 feet	Sapling

Stand is a mix of red/white/jack pine, oak, aspen and red maple. Stand is diverse with density and size classes with no real discernable age class. Trees are gradually filling in a stand that was more open. There is bracken fern, reindeer moss and grass ground cover.



**Stand**      **Level 4 Cover Type**      **Size Density**      **Acres**      **Stand Age**      **BA Range**      **Managed Site**      **General Comments**

**38**    42390 - Mixed Non-Pine Upland Conifers Poletimber Medium    21.7    86    51-80    N/A

Stand falls on the edge of the plains and consists of irregular topography. Stand is a complex of narrow upland sand ridges with lowlands intermixed around and throughout. The upland type supports red and white pine and spruce. The lowland types are mostly spruce with cedar, red maple, p. birch, hemlock.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	5	Pole/Sapling	8		Red Maple	Low	Variable	Sapling
Paper Birch	5	Pole/Sapling	8		Balsam Fir	Low	5 - 10 feet	Sapling
Black Spruce	50	Pole/Sapling	7	86	Black Spruce	Medium	Variable	Sapling
Northern White Cedar	15	Pole/Sapling	7		Tag Alder	Medium	5 - 10 feet	Tall Shrub
Tamarack	5	Pole/Log/Sap	10		Labrador Tea	Medium	< 5 feet	Tall Shrub
White Pine	10	Log/XLog	18		Blueberry/Bilberry/Cranberry	Low	< 5 feet	Tall Shrub
Red Pine	5	Log/Pole	12		Leatherleaf	Low	< 5 feet	Tall Shrub
Hemlock	5	Log	16					

**39**    4311 - Pine, Aspen Mix    Sapling Poor    9.7    7    1-50    N/A

Not much conifer coming up in the stand.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Oak	10	Pole	8		Balsam Fir	Low	5 - 10 feet	Sapling
White Pine	15	Log	10		Black Spruce	Low	Variable	Sapling
Red Pine	20	Log/XLog	16	91				
Red Pine	10	Sapling	1					
Bigtooth Aspen	25	Sapling	1	7				
White Pine	10	Sapling	1					
Jack Pine	10	Sapling	1					

(2015)Decent red pine stand, some utility poles quality red pine trees present.  
(2015) - Stand was treated with TSale# 420111301 Corn Feeder JP. TCR 1/28/16. FTP C42-834.