



# Compartment Review Presentation

Newberry Forest Management Unit

Compartment 42065

Entry Year 2022

Acreage: 2,491

County Chippewa

Management Area: Whitefish Vermillion Point

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**Revision Date:** 2020-08-20

**Stand Examiner:** Lester Livermore

**Legal Description:**

T49N R6W Sections 19-22, 29-31; T49N R7W Section 24; T48N R6W Section 6.

**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 mostly consists of Deer Park sand and Dawson-Loxely peat. There is a mix of several other series with are Markey and Carbondale muck, Kinross-Dawson complex, Deer Park-Kinross complex, Rousseau fine sand, Marky-Kinross complex and Kinross AuGres. The terrain is variable with steep to nearly level sand ridges that are well drained, mixed in with level, very poorly drained wetland areas. Within the compartment, complexes of the two make the terrain somewhat irregular.

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

The majority of the land in the compartment is State owned as well as the land on the north and west sides. The State land in this area has historically been managed for timber production as well as providing habitat for wildlife. It has also provided opportunities for recreational activities such as hunting, snowmobiling, cross country skiing, ORV riding, hiking, wildlife viewing and berry picking. The land to the east and south of the compartment is privately owned as well as two parcels of land on the interior of the compartment. This private land is owned by several different individuals. Many of the private land parcels have cabins or structures on them that are used seasonally.

**Unique Natural Features:**

The Michigan Natural Features Inventory lists the potential for goshawk, merlin, great blue heron rookery, eagle, osprey, black-backed woodpecker, spruce grouse as well as moose and wolf. It also lists the potential for incurvate emerald, frigga fritillary, freija fritillary, and ebony boghaunter in boggy areas. There is also the potential for sweet coltsfoot, Wiegand's sedge, northern prostrate clubmoss, fir clubmoss, English sundew, meadow beauty, round-leaved orchis, black crowberry, yellow pitcher-plant, and paniced screwstem in bogs and open wetlands.

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

None known.

**Special Management Designations or Considerations:**

State Highway M-123 borders the entire northern edge of the compartment. This highway is designated a Scenic Heritage Route. Take this into consideration when making land management decisions.

**Watershed and Fisheries Considerations:**

Cheney Creek and tributaries are designated trout streams in this compartment. Many other intermittent streams and scattered small ponds exist in this compartment as well. Any proposed clear-cut treatments in stands where aspen is a major component should adhere to a 300 ft buffer along the stream. For the small scattered ponds throughout the compartment, a buffer of 100 ft plus 5 ft per 1% increase in slope should be applied.

**Wildlife Habitat Considerations:**

Compartment 65 lies in northwestern Chippewa county and partly in the Seney Sand Lake Plain and Grand Marais Sandy End Moraine and Outwash ecological sub-subsections as well as the Whitefish-Vermillion Management Area with moose, spruce grouse, red crossbill and piping plover as featured species. The compartment consists primarily of pine types heavily interspersed with treed bogs and lowland areas. There is some aspen in northern regions of the compartment. Stands are fairly species diverse in this compartment.

Wildlife values will be met by leaving any oak for future mast production and maximizing diversity in harvested stands to provide future snags for den sites and coarse woody debris. Low, wet areas will need to be buffered. Wildlife expected to use this compartment include spruce grouse, moose, bear, wolves, coyotes, bobcat and snowshoe hare.

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

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. No active sand/gravel pits exist in the area. There appears to be some potential for sand within the compartment, but much of the compartment is covered by wetlands, which could inhibit any surface development. No current mineral leasing activity exists in the area.

## **Vehicle Access:**

State highway M-123 borders the northern edge of the compartment. The South Station Road, North Beaver Road and Preacher Lakes Road offer some access into the compartment. They are all seasonal poor dirt roads for the most part although the Preacher Lakes Road receives some maintenance by the Chippewa County Road Commission. There are a few other sand two tracks and old skid roads that offer further access (see compartment map).

## **Survey Needs:**

Possible survey needs in sections 19, 20, 21, and 22. Section 31 if site conditioned treatment is implemented.

## **Recreational Facilities and Opportunities:**

There are DNR designated snowmobile trails located within and around the compartment. There is also the south loop of the Paradise Ski Trail system within the compartment. The area within and around the compartment has historically provided for other recreational opportunities such as hunting, ORV riding, hiking, wildlife viewing and berry picking.

## **Fire Protection:**

This compartment is in the Whitefish Zone Dispatch Area. Although the fuels are fragmented the potential for large fire growth is high because of the response travel time, large equipment access and mixture of lowland types. The compartment is adjacent to Paradise and other private properties which makes their risk high. Active forest management towards longer lived species in areas of concern could also play a role in fire protection. Whitefish Township also has a Community Wildfire Protection Plan in place.

## **Additional Compartment Information:**

None

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

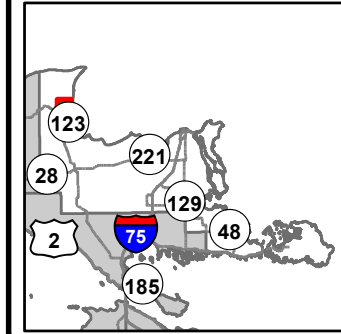
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

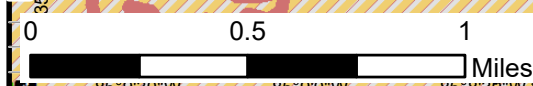
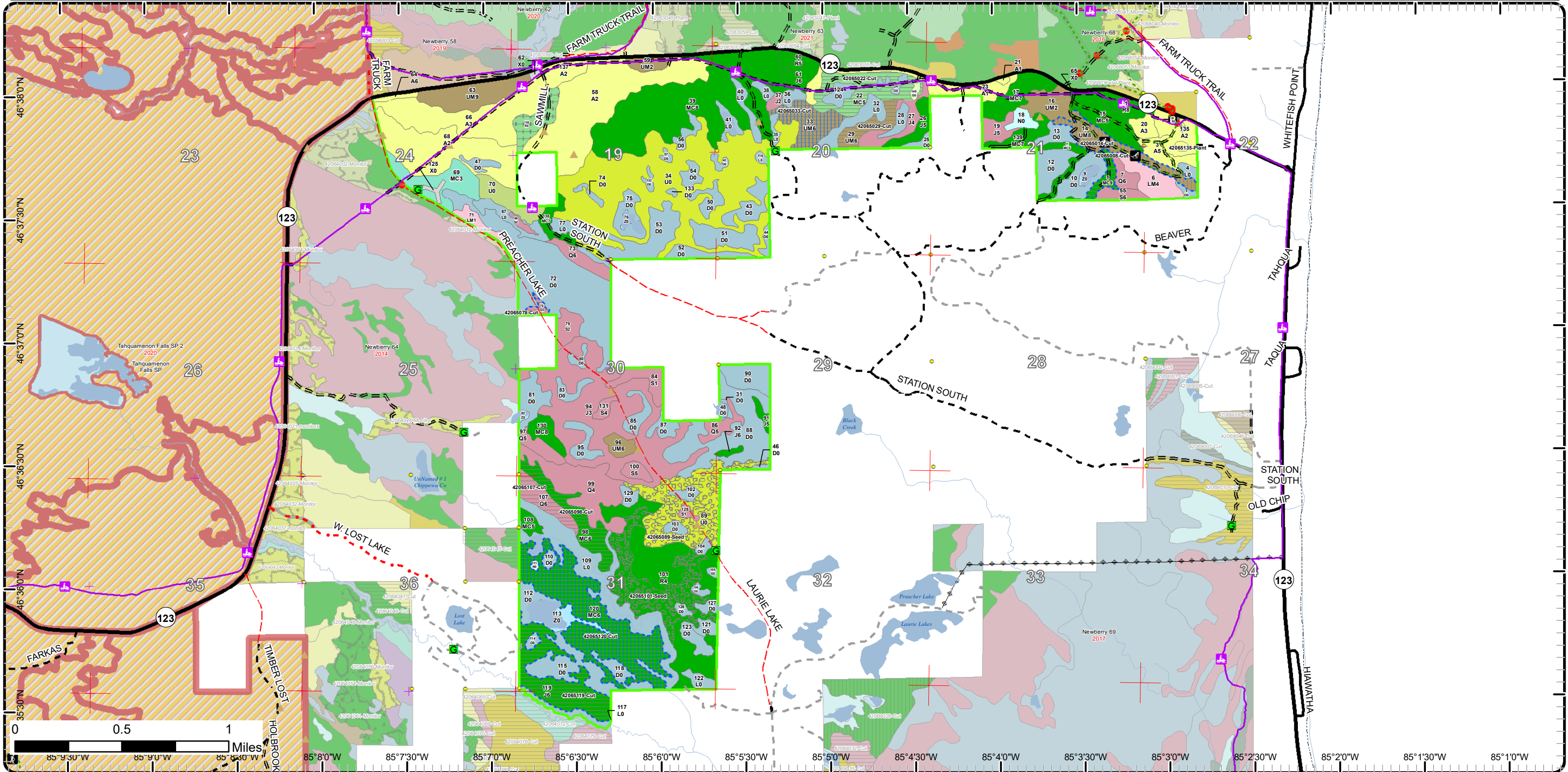
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

# Cover Type & Treatments Map

Compartment: 65  
 T49N, R07W, Sec. 24  
 T49N, R06W, Sec. 19-22, 29-31  
 T48N, R06W, Sec. 6  
 County: Chippewa  
 Unit: Newberry  
 Mgmt Area: Whitefish Vermillion Point  
 YOE: 2022  
 Acres: 2490.8 GIS Calculated  
 Examiner: Lester Livermore  
 Map Revised: 1/25/2021  
 Map Phase: Post-Review



- Miris Corners
- Remonumented Section Corners
- Survey Grade Corners
- Counties
- == DNR - Secondary Forest Road
- == DNR - Forest Access Route
- == Federal / State Highway
- - - Federal / State - Dirt / Gravel Road
- - - County - Gravel Road
- - - County - Dirt Road (Seasonal)
- - - Private - Dirt / Gravel Road
- 🚶 Hiking Trails
- 🏂 Ski Trails
- 🚙 Snowmobile Trails
- Designated Hiking Trails
- Designated Ski Trails
- Designated Snowmobile Trails
- ▲ Berms
- ⊙ Gate
- P Parking Lot
- ⊙ Sign
- ✳ Trailhead
- Drain
- Lake/Pond
- Perennial River
- Lakes and Rivers
- ⊕ Powerline
- ▭ Compartment Boundary
- ▭ Treatments with Site Conditions
- ▭ Planting (tree species)
- ▭ Clearcut (w/Reserves)
- ▭ Harvest, Overstory Removal
- ▭ Seed Tree (w/Reserves)
- ▭ Seeding (tree species)
- ▭ Shelter Wood (w/Reserves)
- ▭ 413 - Aspen
- ▭ 421 - Planted Pines
- ▭ 422 - Natural Pines
- ▭ 429 - Mixed Upland Conifers
- ▭ 430 - Upland Mixed Forest
- ▭ 612 - Lowland Coniferous Forest
- ▭ 613 - Lowland Mixed Forest
- ▭ 110 - Low Intensity Urban
- ▭ 122 - Roads/Parking Lot
- ▭ 310 - Herbaceous Openland
- ▭ 320 - Upland Shrub
- ▭ 330 - Low Density Trees
- ▭ 500 - Water
- ▭ 622 - Lowland Shrub
- ▭ 623 - Emergent Wetland

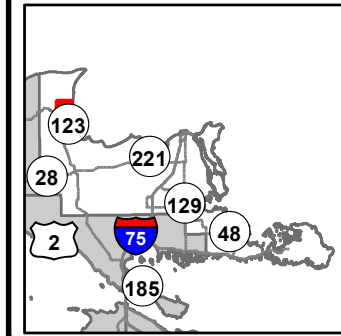


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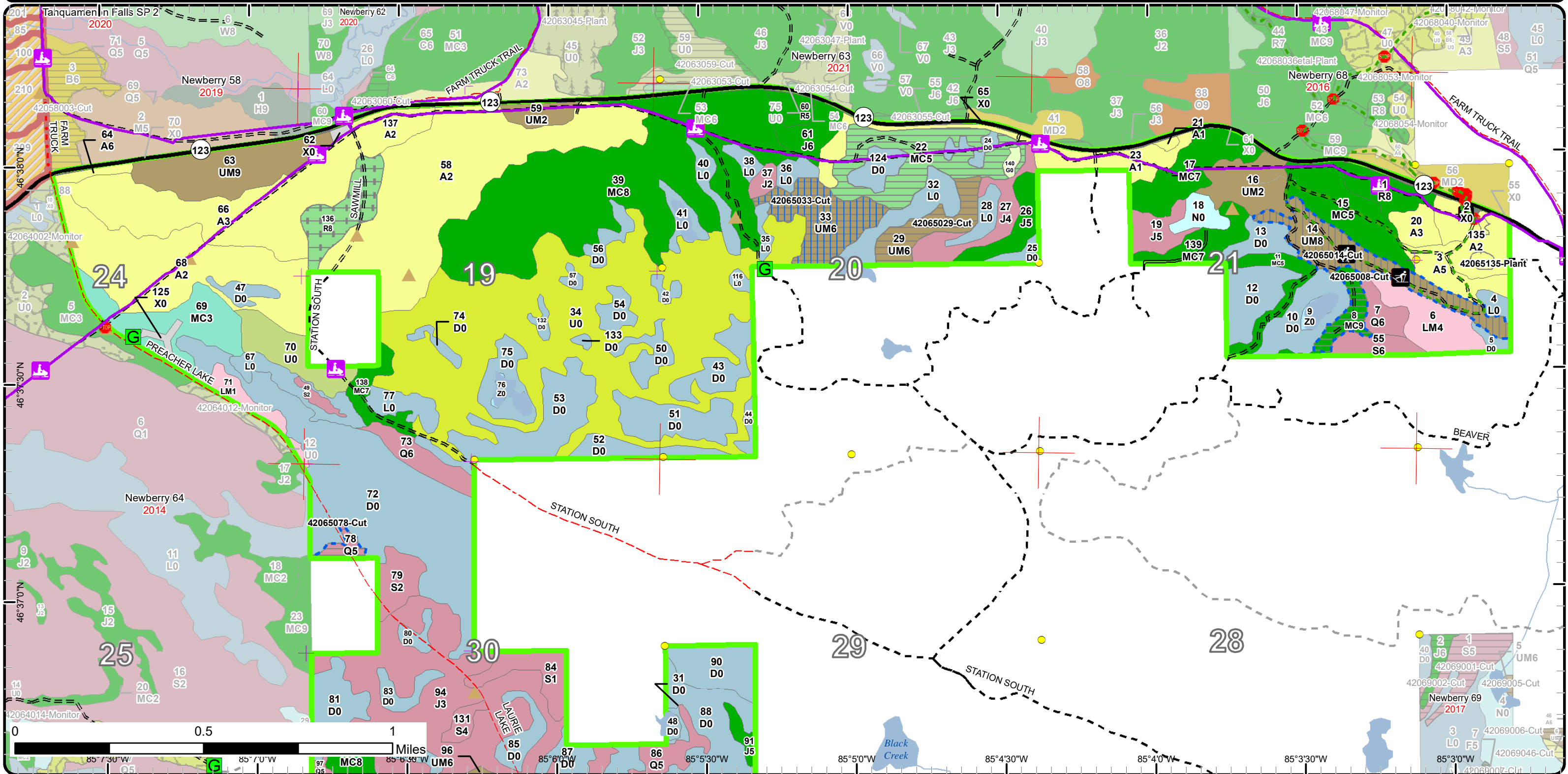


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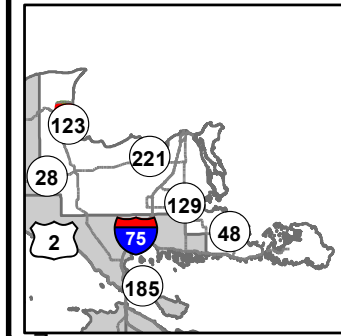


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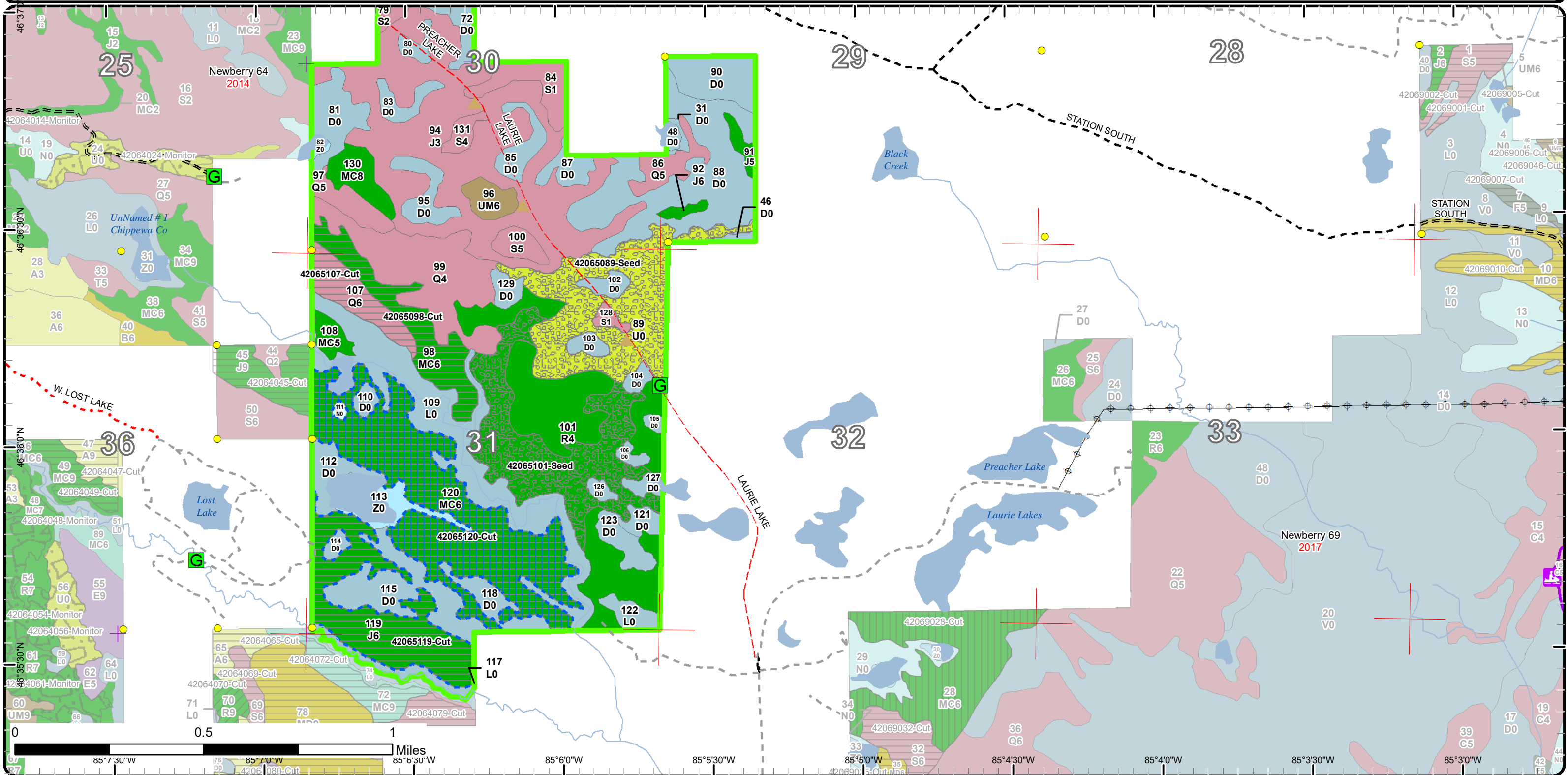


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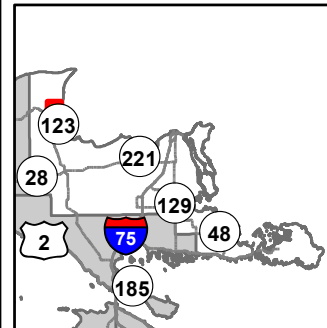
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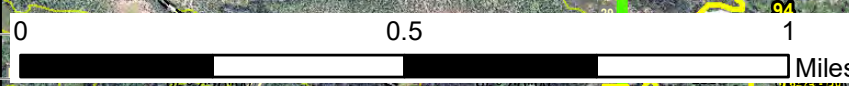
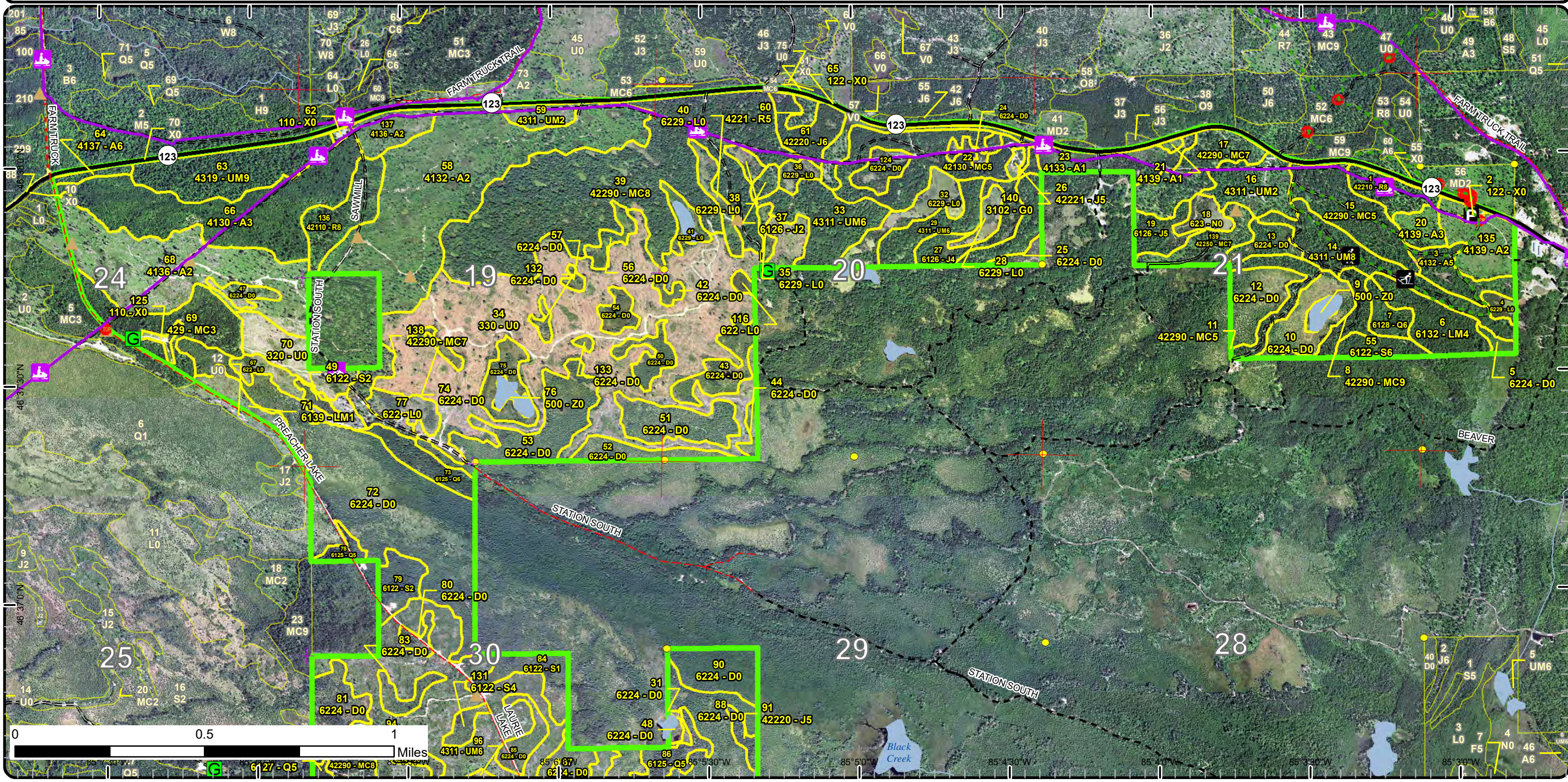


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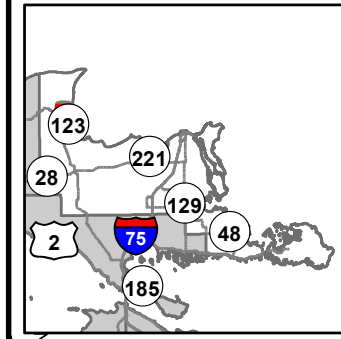


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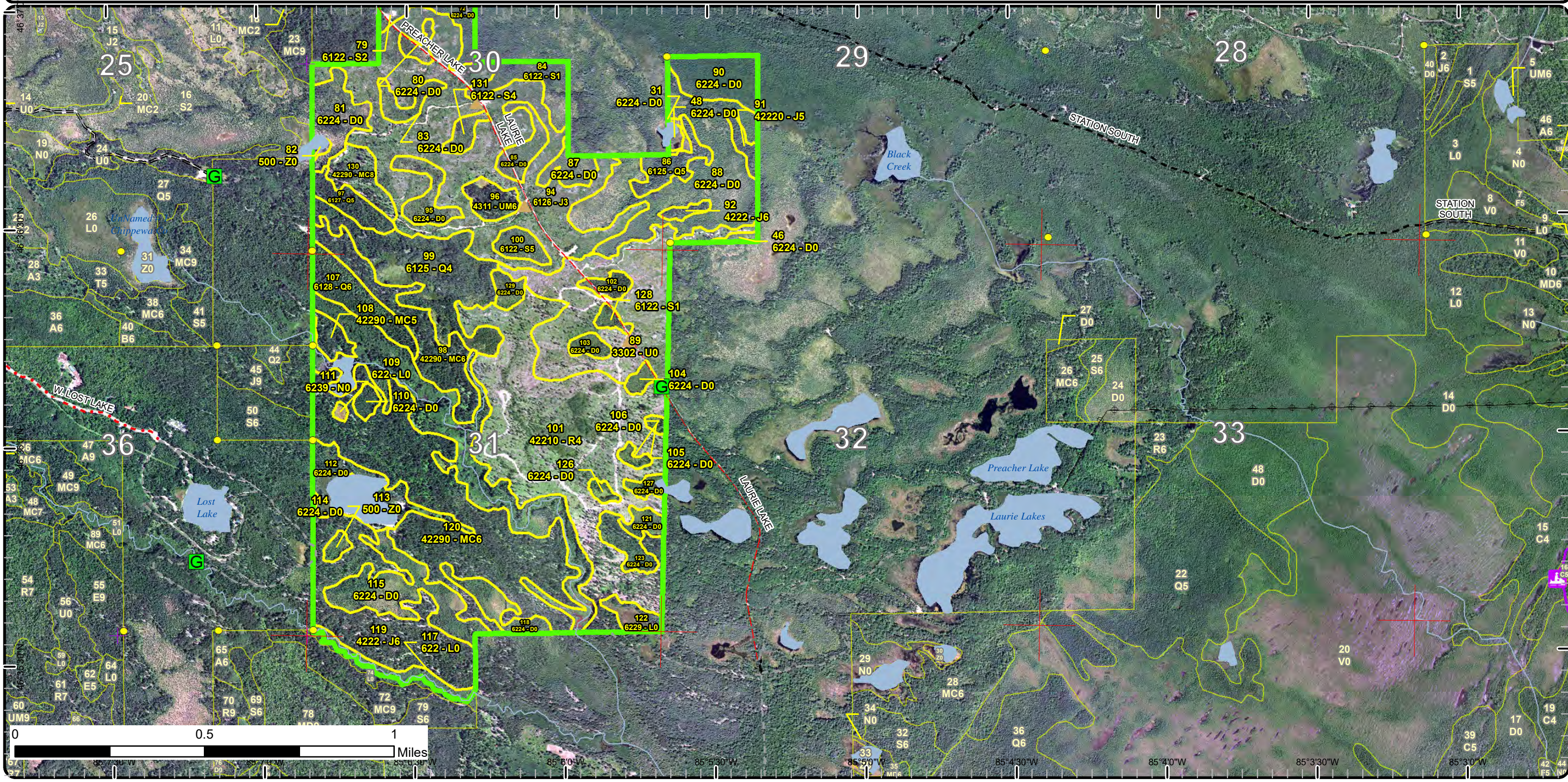


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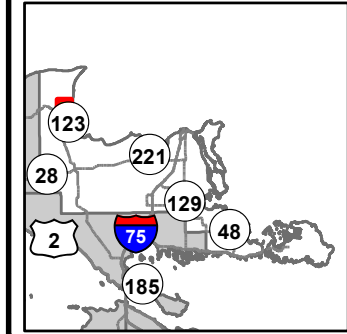
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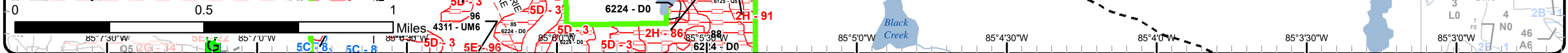
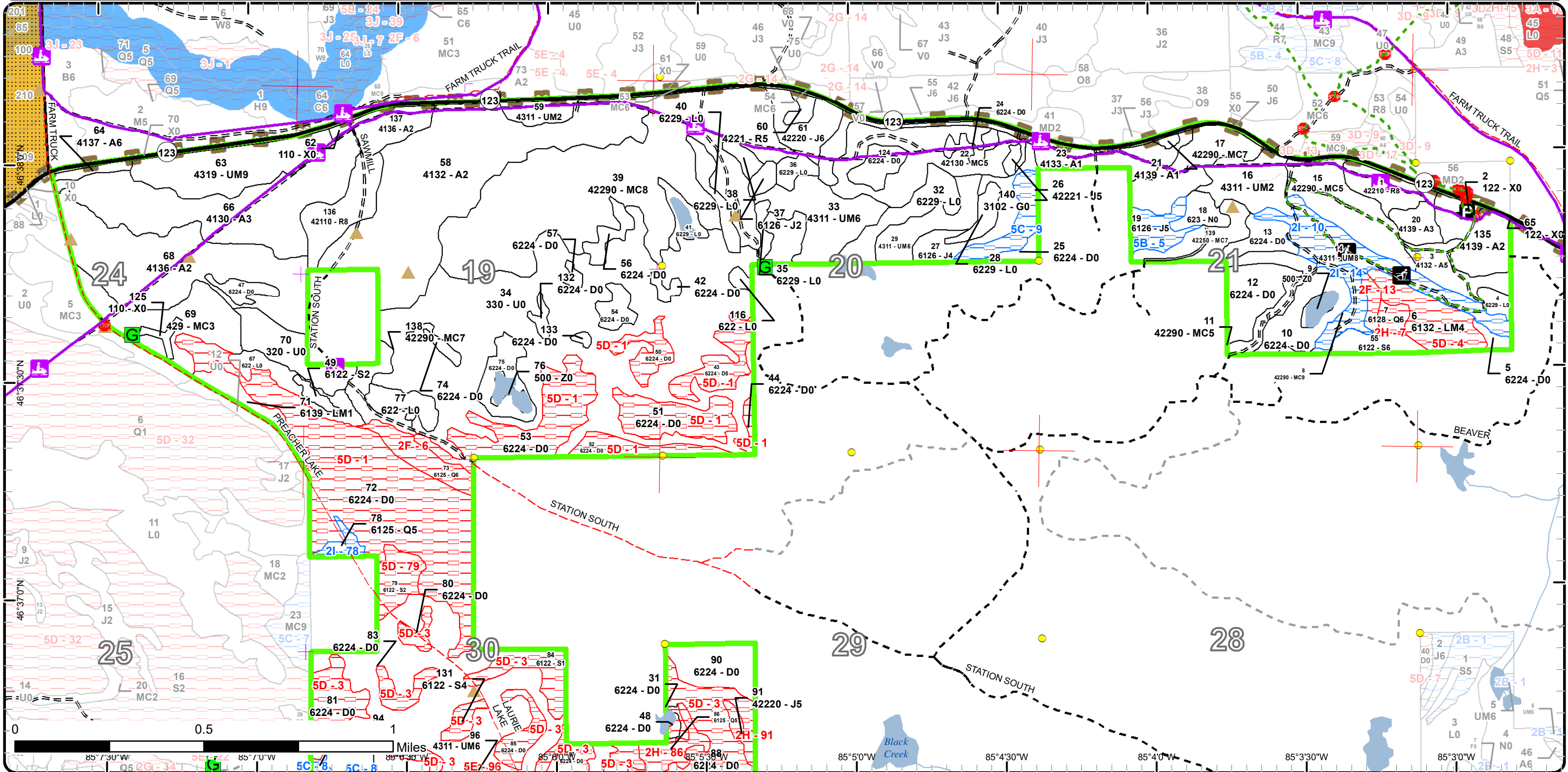


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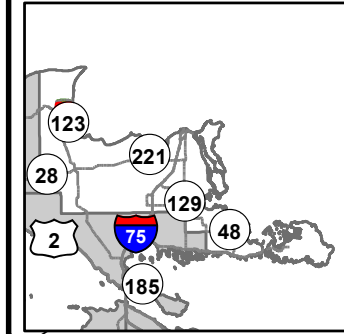
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- Perennial River
- Lakes and Rivers
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 2I: Survey needed
- 5B: Maintain for regeneration purposes
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 2F: Too steep
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 5D: Unproductive Forest Land
- Stand Boundaries
- SCA
- Ecological Reference Areas
- State Heritage Routes-Scenic (MDOT Designation)
- Cold Water Streams
- Cold Water Lakes
- Non-Dedicated Natural Areas and National Natural Landmarks
- High Priority Trout Stream Buffer
- Recreational/Scenic Value Area



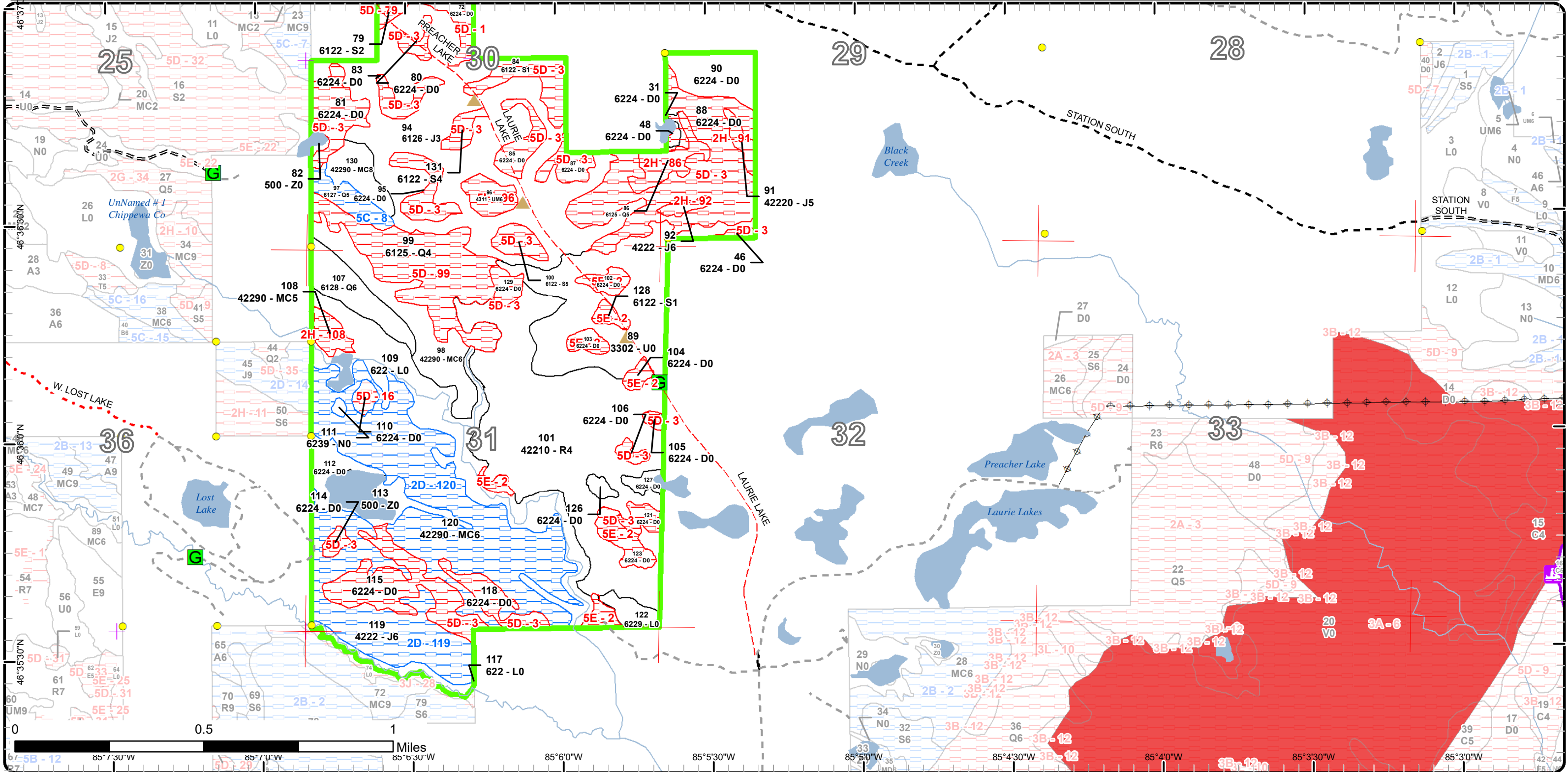


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- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 2D: Portable Bridge Needed (Dept. bridge will be adequate)
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 5D: Unproductive Forest Land
- 5E: Long-Term Retention
- Stand Boundaries
- Ecological Reference Areas
- Cold Water Streams
- Cold Water Lakes





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

Newberry Mgt. Unit

Compartment 65

Year of Entry 2022

Lester Livermore : 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	101	139	0	66	12	3	0	0	0	0	0	0	0	0	0	0	0	321
Herbaceous Openland	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Jack Pine	0	0	139	0	0	27	0	20	0	0	58	0	0	0	0	0	0	0	244
Low-Density Trees	276	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	276
Lowland Conifers	0	0	0	0	0	0	0	0	35	9	61	0	0	0	0	0	0	0	104
Lowland Mixed Forest	0	9	0	0	0	0	0	19	0	0	0	0	0	0	0	0	0	0	28
Lowland Shrub	146	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	146
Lowland Spruce/Fir	0	0	0	0	0	0	10	23	0	3	10	0	0	0	0	0	0	0	45
Marsh	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
Natural Mixed Pines	0	0	0	0	0	26	0	158	35	9	160	0	0	0	0	0	0	0	388
Planted Mixed Pines	0	0	0	0	0	35	0	0	0	0	0	0	0	0	0	0	0	0	35
Red Pine	0	0	0	0	0	0	139	3	11	18	0	0	0	0	0	0	0	0	171
Treed Bog	495	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	494
Upland Conifers	0	0	0	0	29	0	0	0	0	0	0	0	0	0	0	0	0	0	29
Upland Mixed Forest	0	7	18	0	0	0	0	26	42	0	7	0	0	0	0	0	0	33	133
Upland Shrub	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18
Urban	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25
Water	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23
<b>Total</b>	<b>992</b>	<b>117</b>	<b>296</b>	<b>0</b>	<b>95</b>	<b>100</b>	<b>152</b>	<b>249</b>	<b>123</b>	<b>39</b>	<b>296</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>33</b>	<b>2489</b>





## Report 2 – Treatment Summary

Newberry Mgt. Unit

Year of Entry: 2022

Acres of Harvest

Compartment 65

Total Compartment Acres: 2,491

Commercial Harvest - 138  
 Harvests with Site Condition - 198  
 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
Jack Pine	52	0	0	0	0	0	0	0	0	52
Lowland Conifers	20	0	0	0	0	0	0	0	0	20
Natural Mixed Pines	37	0	0	107	0	0	0	0	0	143
Planted Mixed Pines	35	0	0	0	0	0	0	0	0	35
Red Pine	0	0	0	0	0	18	0	0	0	18
Upland Mixed Forest	15	0	0	26	27	0	0	0	0	68
<b>Total</b>	<b>159</b>	<b>0</b>	<b>0</b>	<b>132</b>	<b>27</b>	<b>0</b>	<b>18</b>	<b>0</b>	<b>0</b>	<b>336</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	336	0	2	133	0	0	0	0	0	471
Next Step	0	288	245	187	0	76	514	35	0	1344
<b>Total</b>	<b>336</b>	<b>288</b>	<b>247</b>	<b>320</b>	<b>0</b>	<b>76</b>	<b>514</b>	<b>35</b>	<b>0</b>	<b>1816</b>



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

<b>8</b>	<b>42065008-Cut</b>	8.4	42290 - Natural Mixed Pine	Sawtimber Well	84	81-110	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Harvest all species present in including red pine, white pine, jack pine, spruce, birch, aspen, and maple. Retain any oak present. Slash must be piled to allow for unfurrowed planting operation. Summer harvest due to proximity of ski trail. No retention based on small acreage. Follow BMP's as needed.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Planting, Unfurrowed; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Red pine with jack pine, oak, and some aspen and red maple.</p> <p><u>Regen:</u></p> <p><u>Other</u> Crane matt crossing may be needed over central drain in stand or possibly a culvert. Most likely long skid needed back to the north. Time for the RP to come out and not left as seed source. Some oak in the stand and would like to be a feature of the future site. Regeneration methods may be limited due to size of stand and terrain. Scarification seems not likely. Slope to wetlands varies from mild in the north to gradual and even none towards the south. Southern portion of the stand against private and survey needed but treatment likely to pull up short based on not enough room on state land and stand would be too narrow for operations.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u> Survey Needed</p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											
<b>14</b>	<b>42065014-Cut</b>	27.3	4311 - Pine, Aspen Mix	Sawtimber Medium	71	51-80	Harvest	Shelterwood with Retention	4222 - Natural Jack Pine	Two-Aged	No
<p><u>Prescription</u> BA will vary across the site depending on composition however average between 30 - 50BA residual. Target aspen and jack pine for harvest. Harvest canopy red and white pine where needed for maneuverability and where appropriate to create canopy gaps for regeneration. Leave all oak. Pocket retention 3 - 5% of stand acreage. Areas of steep slope may serve as retention. Acreage may change due to topography. Harvest method will promote longer lived species on the site for the future.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Intermediate)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> White pine with red pine and white spruce with lower amounts of red oak, jack pine, and red maple.</p> <p><u>Regen:</u></p> <p><u>Other</u> Harvesting will be limited to operations on the ridge top where the ski trail exists. Summer operations; not winter for ski trail use. Skid/forward wood to the west where a small landing can be placed. Maintain the current condition of the ski trail where any operations may occur.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u> Survey Needed</p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											
<b>22</b>	<b>42065022-Cut</b>	34.8	42130 - Planted Scotch Pine	Poetimber Medium	44	1-50	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Harvest all species present. No retention to discourage any scotch pine. Leave non-scotch pine in red line where possible.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Pesticide, Skidder - Site Prep; SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr); Other, Pre-Commercial Thinning - Hand</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Red pine with some jack pine, and aspen.</p> <p><u>Regen:</u></p> <p><u>Other</u> OOOYE to align with adjacent treatments. Follow harvest with site prep spray to discourage any scotch pine. Trench/plant to red pine to promote longer lived species along M-123 corridor. Trenching may be delayed for establishing of scotch pine. Possible TSI treatment.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</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 42065029-Cut</b>	15.0	4311 - Pine, Aspen Mix	Poletimber Well	71	51-80	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Harvest all species present. Leave any oak where present. Protect any lowland marshy areas inclusions in the stand. Pocket retention 3 -5%  <u>Specs:</u> in area not to hinder cultivation post harvest steps. Make retention as varied as possible</p> <p><u>Next Step</u> SitePrep, Trenching; Planting, Initial Plant; Pesticide, Skidder - Site Prep; Monitoring, Artificial Regen(1yr); Monitoring, Artificial  <u>Treatments:</u> Regen(3yr)</p> <p><u>Acceptable</u> Planted red pine.  <u>Regen:</u></p> <p><u>Other</u> OOOYE to allow feasibility of spraying if needed. Trench and plant to red pine. Spray if needed post harvest if either scotch pine regen  <u>Comment:</u> present or where aspen is likely to avoid release issues in future.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>										
<b>33 42065033-Cut</b>	25.8	4311 - Pine, Aspen Mix	Poletimber Well	61	51-80	Harvest	Seed Tree with Retention	429 - Mixed Upland Conifers	Two-Aged	No
<p><u>Prescription</u> Retain 10 - 20 BA of red pine throughout the site. Leave all oak. Lowland spruce pockets may serve as retention. Leave diversity in the red  <u>Specs:</u> line.</p> <p><u>Next Step</u> SitePrep, Scarification; Planting, Initial Plant; SitePrep, Trenching; Monitoring, Natural Regen (Intermediate); Pesticide, Skidder - Site  <u>Treatments:</u> Prep</p> <p><u>Acceptable</u> Red pine, jack pine with aspen and red maple.  <u>Regen:</u></p> <p><u>Other</u> Scarify site to promote natural pine and oak regen. If scarification fails trench and plant jack pine. Aspen will be a future component of stand  <u>Comment:</u> (especially southern portion). OOOYE to harvest with adjacent stand.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>										
<b>78 42065078-Cut</b>	3.8	6125 - Lowland Black Spruce, Jack Pine	Poletimber Medium	98	51-80	Harvest	Clearcut	612 - Lowland Coniferous Forest	Even-Aged	No
<p><u>Prescription</u> Harvest all species present. No retention due to small acreage. Winter harvest or dry summer if hand cutting.  <u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)  <u>Treatments:</u></p> <p><u>Acceptable</u> Black spruce, jack pine, paper birch, tamarack with red maple.  <u>Regen:</u></p> <p><u>Other</u>  <u>Comment:</u></p> <p><u>Site Condition</u> Survey Needed</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
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<b>89</b>	<b>42065089-Seed</b>	66.9	3302 - Low Density Conifer Trees	Nonstocked			Seeding	Machine Seed	4222 - Natural Jack Pine	Even-Aged	No
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Prescription Seed to jack pine in areas of lower stocking and no overstory.

Specs:

Next Step Monitoring, Natural Regen (Intermediate); Planting, Interplant  
Treatments:

Acceptable jack pine with a component of red pine and spruce

Regen:

Other Percent to Treat = 90%. Good site for flat planting extra jack pine seedlings.

Comment:

1/7/21 - JAT - Stand to be used as a location to flat plant (interplant) potential surplus Jack Pine seedlings during the 2021 planting season to help improve the stocking level.

Site Condition

Proposed Start Date: 10/1 /2021

<b>98</b>	<b>42065098-Cut</b>	28.4	42290 - Natural Mixed Pine	Poletimber Well	91	51-80	Harvest	Clearcut with Retention	4222 - Natural Jack Pine	Even-Aged	No
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Prescription Harvest all species present. Pocket retention 3 - 10% of stand acreage. Areas of steep inoperable slope will provide retention to increase course woody debris and denning site for marten. Winter or dry summer cut. Acreage may change during sale prep. Retention pocket in southern portion.

Specs:

Next Step Planting, Unfurrowed; Seeding, Machine Seed; Monitoring, Natural Regen (Intermediate); SitePrep, Scarification  
Treatments:

Acceptable Jack pine with black spruce and white pine, red pine, red maple.

Regen:

Other Access from the SE edge of stand via crane mat crossing. See stand comments for additional crossing. Portions of the stand will be too steep. Site probably not accessible or feasible for cultivation work.

Comment:

Site Condition

Proposed Start Date: 10/1 /2021

<b>101</b>	<b>42065101-Seed</b>	66.0	42210 - Natural Red Pine	Poletimber Poor	51	1-50	Seeding	Machine Seed	4222 - Natural Jack Pine	Even-Aged	No
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Prescription Seed to jack pine in areas of lower stocking and no overstory.

Specs:

Next Step Monitoring, Natural Regen (Intermediate); Planting, Interplant  
Treatments:

Acceptable jack pine with a component of red pine and spruce

Regen:

Other Percent to Treat = 90%. Good site for flat planting extra jack pine seedlings.

Comment:

1/7/21 - JAT - Stand to be used as a location to flat plant (interplant) potential surplus Jack Pine seedlings during the 2021 planting season to help improve the stocking level.

Site Condition

Proposed Start Date: 10/1 /2020





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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>107 42065107-Cut</b>	16.4	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	73	81-110	Harvest	Clearcut with Retention	6122 - Black Spruce	Even-Aged	No
<p><u>Prescription</u> Harvest all species present. Pocket retention 3 -10% of stand acreage. Winter harvest due to low ground conditions.</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> Black spruce with tamarack, red maple, paper birch and white 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 /2021</p>										
<b>119 42065119-Cut</b>	51.9	4222 - Natural Jack Pine	Poletimber Well	95	51-80	Harvest	Clearcut with Retention	4222 - Natural Jack Pine	Even-Aged	No
<p><u>Prescription</u> Harvest all species present. Pocket retention 3 -10%. Lowland inclusions of black spruce will serve as retention for spruce grouse. Winter harvest based on access and lowland areas. Treatment acreage may change. Follow appropriate BMP's.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Intermediate); Seeding, Machine Seed; SitePrep, Scarification</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Jack pine, black spruce, red pine, white pine, aspen and red maple.</p> <p><u>Regen:</u></p> <p><u>Other</u> Site access is even more difficult than stands to the north. If bridge in place for northern site option for ice road from adjacent stand may be</p> <p><u>Comment:</u> only option. Potential access from western private still exists as in past years. Unlikely stand will be harvested.</p> <p><u>Site Condition</u> Portable Bridge Needed</p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										
<b>120 42065120-Cut</b>	106.6	42290 - Natural Mixed Pine	Poletimber Well	95	51-80	Harvest	Seed Tree with Retention	4222 - Natural Jack Pine	Even-Aged	No
<p><u>Prescription</u> Retain approximately 10 BA of either red or white pine where present across the site for seed source. Harvest all other species and individuals present. Pocket retention 3 – 10% of stand acreage; steep slopes and lowland spruce pockets will serve as retention for spruce grouse. Treatment acreage may vary due to low ground delineation and steep slopes. Protection and buffer of lowland marshy edges where needed.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Intermediate); Seeding, Machine Seed; SitePrep, Scarification</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Alternate MO = natural mixed pine, white pine, spruce or aspen.</p> <p><u>Regen:</u></p> <p><u>Other</u> Stand does not have good access. A road needs to be built and a portable bridge will be needed. Possible crossing from north east portion of site. The stand is a series of ridges and rolling topography, some steep ridges in the middle of this stand. Stand is surrounded by treed bogs and feeder stream to Cheney Creek. Add stand 45 in C64 if feasible.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u> Portable Bridge Needed</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>135 42065135-Plant</b>	2.0	4139 - Aspen, Mixed Deciduous	Sapling Medium	7	1-50	Planting	Replant	42111 - Planted Red Pine, Mixed Deciduous	Even-Aged	No
<p><u>Prescription Specs:</u> Plant red pine within areas of little to no regen stocking. Treatment area delineated however may vary slightly. Good site for extra trees in FY 2021.</p> <p><u>Next Step Treatments:</u> Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)</p> <p><u>Acceptable Regen:</u> Red, jack, white pine as well as any associated mixed deciduous trees such as oak, aspen, red maple and paper birch. Management Objective was changed to mixed pine. A change of prescription was done to this stand to help mitigate long term issues of jack pine management in this particular area. In the short term planting red pine will get trees established quicker in an area that is quite visual and of concern to the local community.</p> <p><u>Other Comment:</u> Percent to Treat = 100%</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										
<b>136 42065136-Cut</b>	18.0	42110 - Planted Red Pine	Sawtimber Medium	81	1-50	Harvest	Overstory Removal	413 - Aspen	Even-Aged	No
<p><u>Prescription Specs:</u> Harvest all canopy individuals including red pine and paper birch. Minimize impact to current regeneration. Leave oak, and mature paper birch in the red line.</p> <p><u>Next Step Treatments:</u></p> <p><u>Acceptable Regen:</u> Aspen with spruce, balsam, red oak and mixed pine.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										

**Total Treatment Acreage Proposed: 471.3**



# Report 4 – Site Conditions

Newberry Mgt. Unit  
Lester Livermore : Examiner

Compartment: 65  
Year of Entry: 2022



## Availability for Management

Total Acres	Acres Available	Acres Avail		Acres Not Available		Dominant Site Conditions								
		With Condition				2D	2I	5B	5C	2F	2H	5D	5E	
321	321	0	0	0	Aspen									
2	2	0	0	0	Herbaceous Openland									
244	167	72	6	6	Jack Pine	51		9	11		6			
276	276	0	0	0	Low-Density Trees							0		
105	16	13	75	75	Lowland Conifers		4		9	14	13	48		
28	9	0	19	19	Lowland Mixed Forest							19		
146	144	0	2	2	Lowland Shrub									2
46	10	0	36	36	Lowland Spruce/Fir		0					33		3
7	7	0	0	0	Marsh									
388	268	115	5	5	Natural Mixed Pines	107	8				5			
35	35	0	0	0	Planted Mixed Pines									
171	168	0	3	3	Red Pine							0		3
494	125	0	370	370	Treed Bog							352		17
29	29	0	0	0	Upland Conifers									
133	98	27	7	7	Upland Mixed Forest		27							7
17	17	0	0	0	Upland Shrub									
25	25	0	0	0	Urban									
23	23	0	0	0	Water									
2,491	1,740	227	524	524	Total Forested Acres	158	39	9	20	14	24	453		32
	70%	9%	21%		Relative Percent									

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

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	5D: Unproductive Forest Land	186	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
2	Unavailable	5E: Long-Term Retention	25	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							



## Report 4 – Site Conditions



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3	<b>Unavailable</b>	<b>5D: Unproductive Forest Land</b>	186	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
4	<b>Unavailable</b>	<b>5D: Unproductive Forest Land</b>	19	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Site currently flooded (2020) with mortality in portions of the site.							
5	<b>Available</b>	<b>5B: Maintain for regeneration purposes</b>	9	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Site is currently very wet. Consider harvest in future when water levels have subsided allowing for natural jack pine regeneration.							
6	<b>Unavailable</b>	<b>2F: Too steep</b>	11	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
7	<b>Unavailable</b>	<b>2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)</b>	4	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
8	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	9	2I: Survey needed	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Allow for more stems to enter merchantability.							



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9	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	11	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
10	<b>Available</b>	<b>2I: Survey needed</b>	27	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
13	<b>Unavailable</b>	<b>2F: Too steep</b>	3	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
14	<b>Available</b>	<b>2I: Survey needed</b>	8	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Narrow ridge in the south may limit needs of survey.							
16	<b>Unavailable</b>	<b>5D: Unproductive Forest Land</b>	3	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
78	<b>Available</b>	<b>2I: Survey needed</b>	4	2I: Survey needed	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
79	<b>Unavailable</b>	<b>5D: Unproductive Forest Land</b>	10	2I: Survey needed	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							



## Report 4 – Site Conditions



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86	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	9	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
91	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	4	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
92	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
96	Unavailable	5E: Long-Term Retention	7	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Long term retention pocket from surround harvest.							
99	Unavailable	5D: Unproductive Forest Land	48	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
108	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	5	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions



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119	<b>Available</b>	<b>2D: Portable Bridge Needed (Dept. bridge will be adequate)</b>	51	2I: Survey needed	2E: Road needed	Unspecified	Unspecified
<p><b>Comments:</b>                  Most of stand could be harvested if a portable bridge is used. Some areas may be too steep or require buffers along wetlands. Survey may constrain portions if corners are not located.</p>							
120	<b>Available</b>	<b>2D: Portable Bridge Needed (Dept. bridge will be adequate)</b>	107	2I: Survey needed	Unspecified	Unspecified	Unspecified
<p><b>Comments:</b>                  Most of stand could be harvested if a portable bridge is used. Some areas may be too steep or require buffers along wetlands. Survey may constrain portions if corners are not located.</p>							



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
<b>Comments</b>				



**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	Non-Dedicated Natural Areas and National Natural Landmarks	This category is comprised of those Natural, Wilderness and Wild Areas that have been nominated or proposed for legal dedication, but for which legal dedication by legislature has not occurred. The nomination process is defined by Part 351, Wilderness and Natural Areas, of the Natural Resources and Environmental Protection Act, 1994 PA 451. The program is administered by the DNR. Nominations require the submittal of a Natural Areas Nomination Packet to the DNR. This is an active program, with proposed sites in various stages of review. Final dedication of nominated Natural, Wilderness and Wild Areas is accomplished through legislative action.
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in which the terrestrial ecosystem influences the aquatic ecosystem and vice-versa. Because of the unique conditions adjacent to lakes, streams and open water wetlands, riparian areas harbor a high diversity of plants and wildlife. Riparian communities are ecologically and socially significant in their effects on water quality and quantity, as well as aesthetics, habitat, bank stability, timber production, and their contribution to overall biodiversity.
SCA	Visual Management Area	An area of general social appreciation that is managed to recognize and preserve a particular visual value. Examples of these areas include scenic vistas, scenic or natural beauty roads, and lakeshore areas.
HCVA	Legally dedicated Natural Areas, Wilderness or Wild Areas	The nomination process is defined by Part 351, Wilderness and Natural Areas, of the Natural Resources and Environmental Protection Act, 1994 PA 451. The program is administered by the DNR. Nominations require the submittal of a Natural Areas Nomination Packet to the DNR. This is an active program, with proposed sites in various stages of review. Final dedication of nominated Natural, Wilderness and Wild Areas is accomplished through legislative action.





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																							
1	42210 - Natural Red Pine	Sawtimber Medium	11.2	71	51-80	N/A	Stand delineated from adjacent stand based on dominant canopy size. Two aged stand with variable BA of residual log sized canopy red pine with white pine and red oak in association. Good amount of regeneration from harvest; Red pine and red oak with other species throughout. Stand was harvested as Transfer Station Jack Pine (023-02-01). Sale completed 11/13/03. FTP42-576 completed 8/2004. Regeneration count completed 5/9/2007= 937 t/ac (228 RM, 203 Oak, 355 A, 13 PB, 76 J, 25W, 38 BS).																																																							
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2	122 - Road/Parking Lot	Nonstocked	1.4			No	Paradise Ski Trail/Snowmobile staging area parking lot.																																																							
3	4132 - Aspen, Jack Pine	Poletimber Medium	12.4	42	1-50	N/A	Stand was part of sale #028-79A. Stand has a residual overstory of white and red pine with some birch and red maple. Under story is mostly aspen and jack pine with some red pine, spruce balsam. Ski trail runs through stand. East end of stand as a pocket of mature aspen.																																																							
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4	6229 - Mixed lowland shrub	Nonstocked	3.2			No	Scattered snags of jack pine throughout. Leatherleaf is pretty thick on ground. Soil is Kinross Muck. House on the far east end of the stand on PVT property overlooking this stand.																																																							
5	6224 - Treed Bog	Nonstocked	2.3			No	Soil is 'Histosols and Aquents, ponded'. Currently over 2 feet of water on site this YO. Thick tag alder brush. Some trees out here, cedar, WP, red maple, P Birch, balsam.																																																							
6	6132 - Mixed Lowland Forest with Cedar	Poletimber Poor	19.0	67	51-80	N/A	Variability in species and stocking across the stand. Lowland conifer with birch dominate some areas where other areas are red maple, yellow birch with cedar. Lowland moderate ridges occur across the site. Poor site and appears flooding may have caused mortality in the distant past in some areas. Tag alder abundant in areas. Hydrology appears to drain SE with more mortality as you approach bog.																																																							
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7	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	7.0	71	81-110	N/A	Western portion of stand occurs along a steep knob/ridge with mixed lowlands in the east. Some areas of knob may be inoperable to logging. Evidence in stand of previous attempts in logging years ago, old stumps and skid trails. Some JP/oak present in stand also.																																																					
8	42290 - Natural Mixed Pine	Sawtimber Well	9.4	84	81-110	N/A	Jack pine with larger diameter red pine dominates the site. Stand has some mortality and is overmature. Slope on the western portion leading to the lowlands is moderate in the north becoming continuously gradual as you move south.																																																					
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9	500 - Water	Nonstocked	3.3			No	Lily pads out here now.																																																					
10	6224 - Treed Bog	Nonstocked	16.2			No	Treed bog; most of the trees are dead and are now snags. A few spruce and tamarack yet. Mostly grass ground cover with some leatherleaf / sphagnum moss.																																																					
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11	42290 - Natural Mixed Pine	Poletimber Medium	11.1	66	1-50	N/A	Older age class of previously thinned red pine overtopping mixed pine, spruce, Aspen and maple poles and saplings. Southern portion of the stand is mostly the same age class jack pine without the red pine. Occasional oak regen throughout.																																																					
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13	6224 - Treed Bog	Nonstocked	7.8		Immature	No	Jack pine is regenerating in a low marshy type. Abundant leatherleaf present.																																																					
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14	4311 - Pine, Aspen Mix	Sawtimber Medium	27.3	71	51-80	N/A	Ski trail runs through stand (south loop of Paradise Ski Trail). Stand occurs along a ridge with steep slope in some areas. Stand is a mix of red/white pine and aspen with a component of white birch, jack pine, spruce and balsam. A percentage of the red pine, jack pine and Aspen occupy an older age class intermixed with a younger class now either codominant or suppressed. Some areas of stand is heavy to aspen. Understory varies in species and is thick/thin.																																																														
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		Stand occupies ridge with some steep slopes. Eastern portion of the stand mixed composition with mixed pine and older larger diameter aspen in association. Western portion of the stand is similar species composition with smaller diameter aspen and pine throughout and more red maple regeneration.																																																																			
15	42290 - Natural Mixed Pine	Poletimber Medium	26.0	42	1-50	N/A	Stand was part of sale 028-79a. Current 2 aged overstory is variable depending on amount of red pine canopy left from previous management. Dominant canopy positioned log red pine with infrequent white pine, red maple, birch and aspen overtop pole sized jack pine with maple, Aspen and birch in association. Areas with little overtopping red pine have higher percentage of jack pine occupying a lower canopy. Ski trail runs through stand. Small drain occupies a portion of the ski trail on the west side.																																																														
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16	4311 - Pine, Aspen Mix	Sapling Medium	17.9	17	1-50	N/A	Overstory of RP/WP, mostly sawlog sized, heavier BA on the west side of stand. Oak scattered in overstory. Aspen/red maple regen. Good flush of Jack pine regen on SW side with red pine regen in road. Scattered pockets of leatherleaf brush. Ridge on south side of stand.																																																														
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17	42290 - Natural Mixed Pine	Sawtimber Poor	21.9	76	1-50	N/A	Stand occurs along steep topography, is adjacent to M-123 and offers some visual influence along the road. Oak regen present throughout. MO of mixed aspen, pine and oak is acceptable. (2015) - Stand was treated with TSale# 420561201 TCR 6/2/15																																																														
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18	623 - Emergent Wetland	Nonstocked	6.1			No	Stand currently has 3+ feet of water in dry summer.																																																														



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<b>19</b>	6126 - Lowland Jack Pine	Poletimber Medium	9.3	61	51-80	N/A	Stand occurs in a low marshy area. Site is wetter than previous 20 years; portion of stand has standing water; some mortality expected if water levels do not recede. Stand not harvested with adjacent sites as previously specified. Age changed and estimated from similar jack pine stands in area.																																															
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<b>20</b>	4139 - Aspen, Mixed Deciduous	Sapling Well	7.0	18	1-50	N/A	Stand delineated from adjacent stand based on dominant canopy size. Fully stocked sapling stand dominated by aspen, red maple and red pine with white pine, oak and paper birch in association. Average approximately 10 basal area of sawlog red pine with white pine and red oak. Stand was harvested as Transfer Station Jack Pine (023-02-01). Sale completed 11/13/03. FTP42-576 completed 8/2004. Regeneration count completed 5/9/2007= 937 t/ac (228 RM, 203 Oak, 355 A, 13 PB, 76 J, 25W, 38 BS).																																															
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<b>21</b>	4139 - Aspen, Mixed Deciduous	Sapling Poor	1.0	5	Immature	N/A	Post harvest stand is a mix of sapling aspen with jack pine. Seedling oak, red maple and jack pine observed. Portion of the stand is now flooded with higher water levels than that of the last 20 years.  (2015) - Stand was treated with TSale# 420561201. TCR 6/2/15																																															
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<b>22</b>	42130 - Planted Scotch Pine	Poletimber Medium	34.8	44	1-50	N/A	Portions of stand was scarified in 1972. Apparently the regeneration failed. It was then planted in the fall of 1977 with scotch and jack pine mix. Stand is now thick with stocking and is either dominated by small pole size classes or codominant pole and sapling sized. Trees are somewhat small for a merchantable roundwood timber but there is a merchantable volume here. Alternate MO of aspen, oak or white pine/red pine is acceptable.  Scotch size classes average at 6 -7" ranging 3 - 10".  Stand was set up as sale #42-042-12-01. Sold but was never cut.																																															
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<b>23</b>	4133 - Aspen, Mixed Pine	Sapling Poor	24.6	17	Immature	N/A	Stand regenerating to a mix of Aspen, oak, maple and pine. Aspen currently 10 - 20 feet tall. Open areas with little after is moderately stocked with oak and cherry 1 - 5' tall. Some jack pine and trace amounts of white pine and red pine throughout. Portions of the stand considered for previous planting now flooded with higher water table than in the past. Leatherleaf abundant in those areas. Blueberry and bracken fern also present. Planting is no longer viable based on water table and current regeneration; MO can change to Aspen with pine and oak.  Stand harvested as Transfer Station Jack Pine (023-02-01). Completed 11/13/03. FTP 42-576 completed 8/2004. Regen Check: 5/9/2007 = 937 t/ac (228 RM, 203 Oak, 355 A, 12 PB, 76J, 25 W, 38 BS). Willow present also.																																																																				
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<b>24</b>	6224 - Treed Bog	Nonstocked	3.8			No	Stand has blueberry, leatherleaf brush throughout.																																																																				
<b>25</b>	6224 - Treed Bog	Nonstocked	3.2			No	Stand has blueberry, leatherleaf brush throughout.																																																																				
<b>26</b>	42221 - Natural Jack Pine, Mixed Deciduous	Poletimber Medium	11.1	61	51-80	N/A	Jack pine dominated site with codominant Aspen scattered throughout. Infrequent overmature aspen scattered through site that are now falling out of the canopy. Moderate ridge with leatherleaf pockets intermixed. Red maple regen with Trace amounts of oak.																																																																				
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<b>27</b>	6126 - Lowland Jack Pine	Poletimber Poor	14.2	49	1-50	N/A	Stand is beginning to come into a pole sized class. Some Scotch pine in northern finger of stand. Patchy overstory with leatherleaf pockets.																																																																				
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<b>28</b>	6229 - Mixed lowland shrub	Nonstocked	5.3			No	Stand has blueberry, leatherleaf brush throughout.																																																																				
<b>29</b>	4311 - Pine, Aspen Mix	Poletimber Well	15.0	71	51-80	N/A	Jack pine dominated site with codominant Aspen scattered throughout. Infrequent overmature aspen scattered through site that are now falling out of the canopy. Moderate ridge with leatherleaf pockets intermixed. Red maple regen with Trace amounts of oak.																																																																				
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments					
31	6224 - Treed Bog	Nonstocked	1.2			No	Stand consists of scattered suppressed jack pine 1-3" DBH. There are also some small black spruce. Leatherleaf / lab tea/ grass ground cover.					
32	6229 - Mixed lowland shrub	Nonstocked	14.8			No	Stand has blueberry, leatherleaf brush throughout.					
33	4311 - Pine, Aspen Mix	Poletimber Well	25.8	61	51-80	N/A	Stand consists of aspen with a mix of red, white and jack pine. Some of the red and white pine are of sawlog size. Stand occurs on a 'knob'.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Bigtooth Aspen	40	Pole	7	61
								Red Pine	20	Pole/Log	8	
								White Pine	15	Pole/Log	8	
								Jack Pine	15	Pole	6	
								Black Spruce	7	Pole/Sapling	5	
Red Oak	3	Pole	7									
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Jack Pine	Low	5 - 10 feet	Sapling									
Red Oak	Low	Variable	Sapling									
White Pine	Low	Variable	Sapling									
34	330 - Low-Density Trees	Nonstocked	209.1	0	Unspecified	4222 - Natural Jack Pine	Diverse regen and variable stocking across the site; mixed conifers consisting of black spruce, jack pine, red and white pine, aspen, some oak, red maple, and paper birch present. Lowland site is slowly regenerating to jack pine, black spruce, mixed deciduous. Higher/adequate stocking across the site than that of similarly cut stands down Preacher Lakes road. Lowland pockets of marshy types scattered throughout stand. Alternate MO of RP/WP, spruce, aspen and oak is acceptable. 2016 - Stand harvested winter 2014-2015. Scarified summer 2016. Regen check in FY 2019. 2020 - Regen check completed upon re-inventory FY2020. Adequate stocking: Approximately JP 675 TPA, BS 150 TPA, RP 75 TPA, BT Aspen 225 TPA, WP trace. Regen check passed.					
	Sub-Canopy Species	Density	Avg. Height	Size								
	Black Spruce	Medium	< 5 feet	Seeding								
	Jack Pine	Medium	< 5 feet	Seeding								
	Bigtooth Aspen	Low	5 - 10 feet	Sapling								
35	6229 - Mixed lowland shrub	Nonstocked	2.7			No	Stand has blueberry, leatherleaf brush throughout.					
36	6229 - Mixed lowland shrub	Nonstocked	4.2			No	Scattered trees in marshy type - jack/white pine & black spruce. Evidence of damage from 4X4 'mudding' in the marsh. Doesn't look real recent, approx. 20 years ago.					
37	6126 - Lowland Jack Pine	Sapling Medium	3.0	17	Immature	N/A	Higher residual on south side of stand. Stand harvested as Transfer Station Jack Pine (023-02-01). Completed 11/13/03. FTP42-576 completed 8/2004. Previously targeted for planting jack pine that doesn't appear to have happened or mortality occurred with high water in recent years. Allow natural regen to take place on small wet site.					
38	6229 - Mixed lowland shrub	Nonstocked	3.1			No	Scattered trees in marshy type - jack/white pine & black spruce. Evidence of damage from 4X4 'mudding' in the marsh.					





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																															
<b>39</b>	42290 - Natural Mixed Pine	Sawtimber Medium	146.6	62	51-80	N/A	Jack pine regeneration now entering canopy and consists of very small poles at this point. Density of red pine and white pine in the overstory is variable but ranges from 20 - 100 with eastern portions of the stand closer to 70 - 90; 4 - 5 stick overstory. Lowland pockets of wet leatherleaf scattered throughout stand.																																															
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<b>42</b>	6224 - Treed Bog	Nonstocked	2.3			No	Stand has blueberry, leatherleaf brush throughout.																																															
<b>43</b>	6224 - Treed Bog	Nonstocked	13.3			No	Stand consists of scattered suppressed jack pine 1-3" DBH. There are also some small tamarack and black spruce. Leatherleaf/lab tea/grass/sphagnum ground cover.																																															
<b>44</b>	6224 - Treed Bog	Nonstocked	2.8			No	Stand consists of scattered suppressed spruce, tamarack and jack pine 1-3" DBH. Leatherleaf/lab tea/grass/sphagnum ground cover.																																															
<b>46</b>	6224 - Treed Bog	Nonstocked	1.4			No	Stand consists of scattered suppressed jack pine 1-3" DBH. There are also some small black spruce. Leatherleaf / lab tea/ grass ground cover.																																															
<b>47</b>	6224 - Treed Bog	Nonstocked	4.5	0		No	Treed bog exclusion from the surrounding stand.																																															
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<b>48</b>	6224 - Treed Bog	Nonstocked	1.6			No																																																
<b>49</b>	6122 - Black Spruce	Sapling Medium	2.4	56	1-50	N/A	Lowland black spruce inclusion of the surrounding stand.																																															
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<b>51</b>	6224 - Treed Bog	Nonstocked	18.6			No	Stand consists of scattered suppressed jack pine 1-3" DBH. There are also some small tamarack & black spruce. Leatherleaf/lab tea/grass/sphagnum ground cover.																																															



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52	6224 - Treed Bog	Nonstocked	9.6			No	Stand consists of scattered suppressed spruce, tamarack and jack pine 1-3" DBH. Leatherleaf/lab tea/grass/sphagnum ground cover.																																								
53	6224 - Treed Bog	Nonstocked	30.7			No	Stand consists of scattered suppressed spruce, tamarack and jack pine 1-3" DBH. Leatherleaf/lab tea/grass/sphagnum ground cover.																																								
54	6224 - Treed Bog	Nonstocked	5.4			No	Stand has blueberry, leatherleaf brush throughout.																																								
55	6122 - Black Spruce	Poletimber Well	7.7	56	1-50	N/A	Lowland stand delineated from the adjacent upland pine site to the west. Pole sized black spruce dominated with jack pine in association. Past management evidence. Site is wetter than past 20 years.																																								
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58	4132 - Aspen, Jack Pine	Sapling Medium	106.6	15	Immature	N/A	Regenerating mixed sapling stand. Moderate stocking on a moderate site with small pockets of lowland inclusions throughout; wet leatherleaf with infrequent jack pine or black spruce seedling. Stand dominated by aspen with red maple in association with some jack pine regen, occasionally topped by aspen. Infrequent white pine, balsam, and oak. Per 2010 review cycle: change management objective from Jack pine to Aspen. Regen check 2009 - R/J/W Pine/Acre: 99; All spp total/acre: 816																																								
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59	4311 - Pine, Aspen Mix	Sapling Medium	6.8	8	Immature	N/A	Young fully stocked stand post harvest and scarification. Stand harvested as sale #42-044-12-01, Good Station Jack Pine. Completed 11/2013. Scarification completed 09/24/2014. Regen check summer 2017: Jack pine 411 Trees/acre, Red maple 822 Trees/acre, Big-toothed aspen 890 Trees/acre, Red oak 205 Trees/acre, White birch 137 Trees/acre.																																								
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																								
60	4221 - Natural Red Pine	Poletimber Medium	2.9	61	1-50	N/A	Currently a two aged stand post harvest. Canopy closure around 50% dominated by large pole/small log red pine. Understory is mix of regenerating aspen, red maple and red oak, with some jack pine, willow, and paper birch. Previous MO was jack pine but was modified last inventory cycle to acceptable regen including aspen, oak, maple, jack pine and red pine and white pine. Data from last YOE. Stand harvested as Transfer Station Jack Pine (023-02-01) - Completed 11/13/03. FTP42-576 completed 8/2004. Regeneration count completed 5/9/2007 = 937 t/ac (228 RM, 203 Oak, 355 A, 12 PB, 76 J, 25 W, 38 BS).																																								
61	42220 - Natural Jack Pine	Poletimber Well	12.9	43	1-50	N/A	Jack pine on site entering the pole size class. Band of older red and white pine on the SW side. Small lowland pockets scattered within the site.																																								
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62	110 - Low Intensity Urban	Nonstocked	1.0		Unspecified	No	Paradise snowmobile association groomers - old DNR station. See note detailing reverted clause now being eliminated and ownership of the parcel being transferred.																																								
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63	4319 - Mixed Upland Forest	Sawtimber Well	32.6	159	81-110	N/A	Maple dominated stand with hemlock occupying majority of canopy in the east. Infrequent balsam and spruce in canopy. Canopy gaps from thinning and beech mortality now filling in with taller maple saplings (2 - 3 inch) and a full beech understory. Beech dominated subcanopy from 20 feet down. Frequent beech seedlings with infrequent maple seedlings. Stand falls adjacent to M-123 heritage route. Soil is Rousseau sands with dark subsoil. Allow more time for maple subcanopy and codominant to succeed. Stand thinned as "Groomer Barn Hardwoods" timber sale (015-02-01). Completed 5/11/04.																																								
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64	4137 - Aspen, Birch	Poletimber Well	3.1	56	1-50	N/A	Stand occurs adjacent to M-123. Stand harvested as part of "Groomer Barn Hardwoods" timber sale (015-02-01). The birch was left as residual. Sale completed 5/11/04. MO of aspen for stand.																																								
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65	122 - Road/Parking Lot	Nonstocked	20.4		Immature	No	M-123 R.O.W.																																								



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**66** 4130 - Aspen Sapling Well 66.4 35 Immature N/A

Stand was cut in mid 1980s; Sale #032-85. Stand is fully stocked sapling stand dominated by bigtooth aspen with red maple, paper birch in association. Less frequent spruce, balsam and some residual pole and sapling white pine.

Canopy Species	% Cover	Size Class	DBH	Age
Bigtooth Aspen	69	Sapling/Pole	4	35
Red Maple	10	Sapling	3	
Paper Birch	10	Sapling/Pole	4	35
Black Spruce	3	Sapling	2	
Balsam Fir	3	Sapling	3	
White Pine	5	Pole/Sapling	5	

**67** 622 - Lowland Shrub Nonstocked 11.1 0 Unspecified 6125 - Lowland Black Spruce, Jack Pine

Lowland site slowly regenerating back to black spruce. Variable height black spruce saplings left as residual scattered throughout. Leatherleaf pockets.  
T/S 420431201 Road Side Ruckus; cut in 2014.

Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	Medium	< 5 feet	Seeding
Black Spruce	Medium	5 - 10 feet	Sapling
Leatherleaf	Low	< 5 feet	Tall Shrub

**68** 4136 - Aspen, Mixed Conifer Sapling Medium 69.7 6 Immature N/A

Stand situated adjacentnt to Preecher lakes road. Site is filling in well with Aspen with maple, and pine in association. Red pine seed source in the residual overstory seems to be supporting seedlings throughout. Scarified 9/2014. Road Side Ruckus #420431201. All species cut except oak, red and white pine. Alternate MO of mixed pine, spruce, aspen, birch, maple and balsam fir is acceptable. Regen 2017: Big-toothed aspen 405 Trees/acre, White birch 177 Trees/acre, Black cherry 25 Trees/acre, quaking aspen 139 Trees/acre, Red maple 520 Trees/acre, Balsam fir 38 Trees/acre, Jack pine 215 Trees/acre.

Canopy Species	% Cover	Size Class	DBH	Age
Red Pine	5	Log	12	76
White Pine	2	Log	10	76
White Pine	2	Sapling	1	6
Black Spruce	2	Sapling	1	
Northern White Cedar	1	Sapling	1	
Pin Cherry	4	Sapling	1	
Quaking Aspen	10	Sapling	1	
Bigtooth Aspen	35	Sapling	1	6
Red Maple	15	Sapling	1	
Jack Pine	5	Sapling	1	6
Red Pine	10	Sapling	1	6
Paper Birch	4	Sapling	1	
Balsam Fir	5	Sapling	2	

Sub-Canopy Species	Density	Avg. Height	Size
Jack Pine	Low	< 5 feet	Seeding





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																					
69	429 - Mixed Upland Conifers	Sapling Well	29.0	32	Immature	N/A	Stand was sale #007-89. It was cut in 1989 and scarified in 1991. Mostly JP regen aspen, paper birch, red pine, white pine, balsam fir, spruce; ground cover is tag alder, blueberry and leatherleaf. This stand surrounds a State of Michigan 800MHz communications tower.																																																					
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70	320 - Upland Shrub	Nonstocked	17.5	0	Unspecified	4222 - Natural Jack Pine	Stand slow to regenerate jack pine. An additional monitoring treatment will be placed in follow-up year 10/1/2020 to allow stand to continue to regenerate.  T/S 420431201 Road Side Ruckus; cut in 2014. FTP 42-812 for scarification.  Regen Check 6/4/2020 (Re-inventory) - Site has regeneration but stocking appears low and variable across the site. Ferns are now overtopping regen. Additional regen check needed next year.																																																					
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71	6139 - Mixed Lowland Forest	Sapling Poor	9.0	6	Immature	N/A	Stand is regenerating slowly. Portions of the stand moderately stocked; black spruce, red maple, jack pine with cherry, paper birch and white pine. Leatherleaf abundant.  Road Side Ruckus #420431201. FTP 42-812 for scarification. Alternate MO of spruce, white pine and red pine would be acceptable.																																																					
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72	6224 - Treed Bog	Nonstocked	103.3			No	Treed bog dominated by suppressed black spruce, with tamarack and jack pine in association. Several dead trees standing. Leatherleaf and grasses as ground cover. Portions of the site have flooded in since the last inventory cycle.																																																					
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73	6125 - Lowland Black Spruce, Jack Pine	Poletimber Well	11.1	71	81-110	N/A	Stand is a mixed bag. Stand occurs along a ridge, steep in places. Upland areas dominated by aspen mixed pine. Lowlands dominated by black spruce with jack pine in association.																																																					
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76	500 - Water	Nonstocked	3.0			No																																				
77	622 - Lowland Shrub	Nonstocked	8.1	0	Unspecified	6125 - Lowland Black Spruce, Jack Pine	Interior wetter portions of the site excluded from sale and scarification. Site slowly regenerating. T/S 420431201 Road Side Ruckus; cut in 2014. May have been scarified on FTP 42-812.																																			
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78	6125 - Lowland Black Spruce, Jack Pine	Poletimber Medium	3.8	98	51-80	N/A	Some of stand falls on a small knob, but most of it is in low ground.																																			
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79	6122 - Black Spruce	Sapling Medium	10.4	66	1-50	N/A	Some of stand falls on a small knob, but most of it is in low ground. Portion of the stand appears to have not been harvest due to wet ground, possible survey needs and unmerchantable trees. Portion of the stand harvested with adjacent stand.																																			
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80	6224 - Treed Bog	Nonstocked	3.4			No	Stand consists of scattered suppressed jack pine 1-3" DBH. There are also some small black spruce. Leatherleaf / lab tea/ grass ground cover.																																			
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81	6224 - Treed Bog	Nonstocked	14.8			No	Stand consists of scattered suppressed jack pine 1-3" DBH. There are also some small black spruce. Leatherleaf / lab tea/ grass ground cover.																																			
82	500 - Water	Nonstocked	1.2			No																																				
83	6224 - Treed Bog	Nonstocked	5.6			No	Stand consists of scattered suppressed jack pine 1-3" DBH. There are also some small black spruce. Leatherleaf / lab tea/ grass ground cover.																																			



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<b>84</b>	6122 - Black Spruce	Sapling Poor	13.0	61	1-50	N/A	Stand consists of scattered suppressed jack pine 1-3" DBH. Higher percentage of black spruce saplings (variable heights). Leatherleaf / lab tea/ grass ground cover.																																
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<b>85</b>	6224 - Treed Bog	Nonstocked	7.7		Immature	No	OPIC - FMD: Stand consists of scattered suppressed jack pine 1-3" DBH. There are also some small black spruce. Leatherleaf / lab tea/ grass ground cover.																																
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<b>86</b>	6125 - Lowland Black Spruce, Jack Pine	Poletimber Medium	9.4	95	51-80	N/A	Stand occurs along a small ridge that is difficult to get to. Some of the timber lies in wet ground / treed bog. Timber is inaccessible / inoperable for the most part.																																
<b>87</b>	6224 - Treed Bog	Nonstocked	6.4			No	Stand consists of scattered suppressed jack pine 1-3" DBH. There are also some small black spruce. Leatherleaf / lab tea/ grass ground cover.																																
<b>88</b>	6224 - Treed Bog	Nonstocked	60.9			No	Stand consists of scattered suppressed jack pine 1-3" DBH. There are also some small black spruce. Leatherleaf / lab tea/ grass ground cover.																																
<b>89</b>	3302 - Low Density Conifer Trees	Nonstocked	66.7			4222 - Natural Jack Pine	RM starting to flush in areas and variable stocking jack pine regen coming in most places. Site will regenerate to low quality red maple/birch with some pine if let go. Some evidence of blowdowns occasionally. Stand split from the larger previous stand based on residual canopy closure of pole/log sized pine. Alternate MO of spruce, mixed red pine, white pine or aspen would be acceptable. 2016: sale completed. 42-045-12-01, Groaning Boots. TCR 12/30/2015 2016: Scarification completed summer 2015, FTP C42-818																																
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<b>90</b>	6224 - Treed Bog	Nonstocked	16.7			No	Stand consists of scattered suppressed tamarack, spruce and jack pine 1-3" DBH. Scattered brush, willow spp. Leatherleaf / lab tea/ grass ground cover.																																
<b>91</b>	42220 - Natural Jack Pine	Poletimber Medium	3.6	95	51-80	N/A	Stand occurs along a small ridge. Timber is inaccessible.																																
<b>92</b>	4222 - Natural Jack Pine	Poletimber Well	2.3	95	51-80	N/A	Stand occurs along a small ridge / island. Timber is inaccessible / inoperable for the most part.																																





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<b>94</b>	6126 - Lowland Jack Pine	Sapling Well	136.2	17	Immature	N/A	Fully stocked JP saplings with infrequent black spruce pockets and red maple. Trace amounts of RP sawlogs left as residual post harvest. Stand has scattered inclusions of treed bogs. Topography of land is rolling with ridges, knobs and low wet areas. Soil is Kinross - Dawson complex.																																																														
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<b>96</b>	4311 - Pine, Aspen Mix	Poletimber Well	7.3	94	81-110	N/A	Stand sits on a knob with some decent slope through the stand. Retention from the surrounding cutting. Bigtooth Aspen with jack pine in association.																																																														
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<b>97</b>	6127 - Lowland Pine	Poletimber Medium	9.1	81	51-80	N/A	Very poor site index. Stand ranges from 30 - 70 BA; average approximately 50. Pole dominated site with codominant large saplings and infrequent small log white pine. Stand occurs on low ground and would need to be harvested in winter. Soil is Kinross-Dawson complex.																																																														
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<b>98</b>	42290 - Natural Mixed Pine	Poletimber Well	28.4	91	51-80	N/A	Upland portions of the stand dominated by semi closed canopy overmature red pine with similar aged jack pine in association. Infrequent mixed pine regen 5 - 20' tall. More frequent variable height black spruce and red maple. Lowland areas of stand dominated by black spruce poles with jack and white pine in association and trace amounts of red pine and birch. Site occurs along moderate hummaky ridge that is steep in many places. Good portion of stand extends into low ground. Soil is Kinross-Markey complex. Stand is bordered by a small stream on the south east end. Would be difficult to access timber due to the nature of the terrain and low ground.																																																														
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<b>99</b>	6125 - Lowland Black Spruce, Jack Pine	Poletimber Poor	47.9	91	1-50	N/A	Stand consists of scattered suppressed trees, jack pine, spruce and tamarack. There are some small islands of JP/Spruce in the stand that are small subtle ridges. The timber is small for the most part an inferior quality. Leatherleaf / lab tea/ grass ground cover.																																																					
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<b>100</b>	6122 - Black Spruce	Poletimber Medium	5.9	95	1-50	N/A	Stand consists of scattered suppressed jack pine and black spruce 2-5" DBH. Leatherleaf / lab tea/ grass ground cover.																																																					
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<b>101</b>	42210 - Natural Red Pine	Poletimber Poor	139.3	51	1-50	N/A	RM starting to flush in areas and variable stocking jack pine regen coming in most places. Site will regenerate to low quality red maple/birch with some pine if let go. Some evidence of blowdowns occasionally. Stand split from the larger previous stand based on residual canopy closure of pole/log sized pine. Northern half: even age; 0-25(seedlings not tall enough to be forested yet); canopy JP seed med 5, RP seed low, RP log/p low, RM seed low, bs seed low, Leatherleaf low shrub. The topography is irregular with low ridges and wet areas throughout. There are some lowland pockets/treed bogs scattered within the stand, if stand is treated protect these lowland pockets. The south end of stand has more of a red pine component, may have to cut some for operability/silvicultural reasons if treated. Alternate MO of spruce, mixed red pine, white pine or aspen would be acceptable. 2016: sale completed. 42-045-12-01, Groaning Boots. TCR 12/30/20152016: Scarification completed summer 2015, FTP C42-818																																																					
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<b>102</b>	6224 - Treed Bog	Nonstocked	4.0			No	Stand consists of scattered suppressed jack pine 1-3" DBH. There are also some small black spruce. Leatherleaf / lab tea/ grass ground cover.																																																					
<b>103</b>	6224 - Treed Bog	Nonstocked	3.4			No	Stand consists of scattered suppressed jack pine 1-3" DBH. There are also some small black spruce. Leatherleaf / lab tea/ grass ground cover.																																																					
<b>104</b>	6224 - Treed Bog	Nonstocked	2.6			No	Stand consists of scattered suppressed jack pine 1-3" DBH. There are also some small black spruce. Leatherleaf / lab tea/ grass ground cover.																																																					
<b>105</b>	6224 - Treed Bog	Nonstocked	1.4			No	Stand consists of scattered suppressed jack pine 1-3" DBH. There are also some small black spruce. Leatherleaf / lab tea/ grass ground cover.																																																					
<b>106</b>	6224 - Treed Bog	Nonstocked	2.1			No	Stand consists of scattered suppressed jack pine 1-3" DBH. There are also some small black spruce. Leatherleaf / lab tea/ grass ground cover.																																																					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																					
<b>107</b>	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	16.4	73	81-110	N/A	Stand is located on the south side of a steep ridge. Stand is difficult to access - needs a road, it is low ground and is adjacent to private property.																																					
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<b>108</b>	42290 - Natural Mixed Pine	Poletimber Medium	5.3	94	51-80	N/A	Stand has no access. A road would be need to be built through private land. Stand borders a feeder stream to cheney creek.																																					
<b>109</b>	622 - Lowland Shrub	Nonstocked	65.7			No	Lowland brush surrounding a feeder stream to Cheney creek.																																					
<b>110</b>	6224 - Treed Bog	Nonstocked	2.9			No	Stand consists of scattered suppressed jack pine 1-3" DBH. There are also some small black spruce. Leatherleaf / lab tea/ grass ground cover.																																					
<b>111</b>	6239 - Mixed Emergent Wetland	Nonstocked	0.9			No																																						
<b>112</b>	6224 - Treed Bog	Nonstocked	10.0			No	Stand is intermittantly wet. Soil is Kinross-Dawson complex.																																					
<b>113</b>	500 - Water	Nonstocked	15.5			No																																						
<b>114</b>	6224 - Treed Bog	Nonstocked	2.3			No	Stand consists of scattered suppressed spruce, tamarack and jack pine 1-3" DBH. Leatherleaf / lab tea/ grass ground cover.																																					
<b>115</b>	6224 - Treed Bog	Nonstocked	28.1			No	Stand consists of scattered suppressed black spruce, tamarack and jack pine 1-3" DBH. Leatherleaf / lab tea/ grass ground cover.																																					
<b>116</b>	622 - Lowland Shrub	Nonstocked	1.8			No	Stand has blueberry, leatherleaf brush throughout.																																					
<b>117</b>	622 - Lowland Shrub	Nonstocked	7.1			No	OPIC - FMD: Lowland brush surrounding Cheney Creek.																																					
<b>118</b>	6224 - Treed Bog	Nonstocked	9.4			No	Stand consists of scattered suppressed jack pine, black spruce and tamarack 1-3" DBH. Leatherleaf / lab tea/ grass ground cover.																																					





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																													
119	4222 - Natural Jack Pine	Poletimber Well	51.9	95	51-80	N/A	Stand is mature and ready for treatment but does not have good access. Best access would be from the west where a private road through the Lost Lake Subdivision would need to be used, this road crosses several landowners. The alternate access would be from the east where a road would need to be constructed and a stream would need to be crossed. Cheney Creek to the south, marshes/treed bogs to the east and north. The stand is a series of ridges and rolling topography. Although not impossible, it would take some recon, permissions and possible permits to treat stand. Use Limiting Factors. Alternate MO of mixed red pine, white pine, spruce, oak or aspen would be acceptable. Stand data from 2010.																																													
120	42290 - Natural Mixed Pine	Poletimber Well	106.6	95	51-80	N/A	Stand does not have good access. A road needs to be built and a portable bridge will be needed. The stand is a series of ridges and rolling topography, some steep ridges in the middle of this stand. Stand is surrounded by treed bogs and feeder stream to cheny creek. Although not impossible, it would take some recon and permits to treat stand. Stand was inventoried from series of edge calls and previous data this YOE. Possible crossing site w/ portable bridge located.																																													
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121	6224 - Treed Bog	Nonstocked	4.2			No	Stand consists of scattered suppressed black spruce, jack pine and tamarack 1-3" DBH. Leatherleaf / lab tea/ grass ground cover.																																													
122	6229 - Mixed lowland shrub	Nonstocked	5.5			No	Stand intermittently holds water.																																													
123	6224 - Treed Bog	Nonstocked	7.4			No	Stand consists of scattered suppressed black spruce, jack pine and tamarack 1-3" DBH. Leatherleaf / lab tea/ grass ground cover.																																													
124	6224 - Treed Bog	Nonstocked	7.2			No	Leatherleaf / blueberry bushes with grass mixed in. Portions of marsh is intermittantly wet. It is dry now.																																													
125	110 - Low Intensity Urban	Nonstocked	2.4		Immature		Stand is a site of a 800MHZ State of Michigan communications tower.																																													
126	6224 - Treed Bog	Nonstocked	2.1			No	Stand intermittantly holds water.																																													
127	6224 - Treed Bog	Nonstocked	3.1			No	Stand intermittantly holds water.																																													
128	6122 - Black Spruce	Sapling Poor	2.5	88	1-50	N/A	Poor suppressed black spruce saplings dominate site with some individuals reaching pole size classes. Suppressed jack pine saplings with tamarack in association in areas. Leatherleaf / lab tea/ grass ground cover. Wet site.																																													
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
129	6224 - Treed Bog	Nonstocked	4.1			No	Stand consists of scattered suppressed jack pine 1-3" DBH. There are also some small black spruce. Leatherleaf / lab tea/ grass ground cover.

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
130	42290 - Natural Mixed Pine	Sawtimber Medium	10.8	91	51-80	N/A	Variability in canopy closure; White pine and red pine overtopping paper birch advanced regen in more open areas. Regeneration includes birch, red maple, white pine, red pine, black spruce, and jack pine. Some leatherleaf. Portion of stand occupies a moderate ridge.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	40	Pole/Log	9		Black Spruce	Medium	Variable	Sapling
Red Pine	50	Log/XLog	15	91	Paper Birch	Medium	5 - 10 feet	Sapling
Paper Birch	10	Sapling/Pole	3		Jack Pine	Low	Variable	Sapling
					Red Pine	Medium	Variable	Sapling
					White Pine	Medium	Variable	Sapling
					Jack Pine	High	< 5 feet	Seeding
					Red Pine	Medium	< 5 feet	Seeding

Stand harvested as Preacher Lakes Jack Pine (021-02-01) Completed 9/3/04.

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
131	6122 - Black Spruce	Poletimber Poor	4.1	95	1-50	N/A	Stand consists of scattered suppressed jack pine and black spruce 2-5" DBH. Leatherleaf / lab tea/ grass ground cover.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	50	Pole/Sapling	5	95	Labrador Tea	Medium	< 5 feet	Tall Shrub
Tamarack	15	Sapling	3		Leatherleaf	Low	< 5 feet	Tall Shrub
Jack Pine	35	Sapling/Pole	3					

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
132	6224 - Treed Bog	Nonstocked	2.1			No	Stand has blueberry, leatherleaf brush throughout.

Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	Low	>20 feet	Sapling
Tamarack	Low	>20 feet	Sapling
Leatherleaf	Full	< 5 feet	Tall Shrub

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
133	6224 - Treed Bog	Nonstocked	0.9			No	Stand has blueberry, leatherleaf brush throughout. Marsh is currently dry.

Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	Low	>20 feet	Sapling
Tamarack	Low	>20 feet	Sapling
Leatherleaf	Full	5 - 10 feet	Tall Shrub



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
<b>135</b>	4139 - Aspen, Mixed Deciduous	Sapling Medium	18.6	7	1-50	N/A	Regenerating stand near town of paradise. There is a house along the east side stand on the adjacent PVT land. M-123 on the north side of stand and the Paradise Ski Trail loop to the south. During harvest slash left away from private property line for 100' to serve as a fuel break/wildfire concerns.6/2/2015: Stand was treated with TSale#420561201 Just West of Paradise TCR: Stand was planted with 15,000 red pine seedlings and 14 sapling sized oak in spring of 2015 - FTP C42-849.5/9/2017: Interplanted about 10 acres with red pine without trenches (near the parking lot).7/1/2017: Very few red pine. Natural regen survey completed. White birch 266 Trees/acre, red pine 38 Trees/acre, Big-toothed aspen 875 Trees/acre, Red maple 456 Trees/acre, Black cherry 190 Trees/acre, Red oak 380 Trees/acre, White pine 38 Trees/acre, Balsam Fir 38 Trees/acre. 06/13/18: Red pine TPA is approximately 128, with aspen and jack pine mixed. Residual basal area ranges from 10-30		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Bigtooth Aspen	45	Sapling/Pole	1	7	Red Oak	Low		< 5 feet	Sapling
Red Maple	35	Sapling/Pole	2		Pin Cherry	Low		5 - 10 feet	Sapling
Red Oak	5	Sapling	1		Red Pine	Low		< 5 feet	Seeding
White Spruce	1	Sapling	2		White Pine	Low		< 5 feet	Seeding
White Pine	3	Pole	8		Red Maple	Medium		< 5 feet	Seeding
Willow spp.	2	Sapling	1		White Spruce	Low		< 5 feet	Seeding
Pin Cherry	5	Sapling	1						
Red Pine	4	Pole/Log	8						
<b>136</b>	42110 - Planted Red Pine	Sawtimber Medium	18.0	81	1-50	N/A		Sawlog red pine dominated overstory with infrequent paper birch. Subcanopy dominated by bigtooth aspen 10 - 25 feet tall with spruce and white pine in association; infrequent balsam and red oak. Aspen regen appears viguous and has enough light.Stand harvested as sale #22-02-01 "Groomer Barn Jack Pine". Completed 11/28/05. FTP C42-572. Scarification completed 11/25/06.	
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height		Size
Red Pine	90	Log	12	81	Bigtooth Aspen	High	10 - 20 feet		Sapling
Paper Birch	10	Pole/Log	8		White Spruce	Medium	10 - 20 feet		Sapling
					Jack Pine	Low	< 5 feet		Sapling
					White Pine	Low	Variable		Sapling
					Balsam Fir	Low	Variable		Sapling
					Red Oak	Low	10 - 20 feet		Sapling
<b>137</b>	4136 - Aspen, Mixed Conifer	Sapling Medium	11.5	7	Immature	N/A	Aspen and birch regeneration dominating the sapling (now canopy) layer with a good mix of species underneath that will recruit into the future canopy. Alternative MO from harvest is being reached with current conditions. Window for interplanting pine most likely has passed without non-commercial harvest, spraying or burning.  Regen survey summer 2017. Red Oak 822 Trees/acre, Big-toothed aspen 1096 Trees/acre, White birch 137 Trees/acre, Balsam Fir 68 Trees/acre, Beech 137 Trees/acre, Black cherry 68 Trees/acre, Red maple 68 Trees/acre.  Stand harvested as sale #42-044-12-01, Good Station Jack Pine. Completed 11/13. Stand was scarified 09/24/14.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Bigtooth Aspen	42	Sapling	1	7	Red Maple	Low		< 5 feet	Seeding
Red Oak	10	Sapling	1		Red Oak	Medium		< 5 feet	Seeding
Paper Birch	10	Sapling	1	7	Jack Pine	Medium		< 5 feet	Seeding
Balsam Fir	15	Sapling	1		Red Pine	Low		< 5 feet	Seeding
Red Maple	5	Sapling	1						
Black Cherry	8	Sapling	1						
White Pine	5	Pole/Sapling	6						
Jack Pine	5	Sapling	1						
<b>138</b>	42290 - Natural Mixed Pine	Sawtimber Poor	9.3	91	1-50	N/A		T/S 420431201 Road Side Ruckus; cut in 2014. Red and white pine and oak left. May have been scarified under FTP 42-812.	
<b>139</b>	42250 - Pine, Oak	Sawtimber Poor	13.0	76	1-50	N/A	MO of mixed aspen, pine and oak is acceptable.  (2015) - Stand was treated with TSale#420561201. TCR 6/2/15		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	
Red Oak	30	Log	10	76	White Pine	Low	5 - 10 feet	Sapling	
White Pine	20	Log	16		Red Oak	High	Variable	Sapling	
Red Pine	45	Log	10	76	Quaking Aspen	Medium	10 - 20 feet	Sapling	
Quaking Aspen	5	Log	12	76	Red Pine	Low	Variable	Sapling	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments												
140	3102 - Grass	Nonstocked	1.6			No	Stand is a grassy opening with sand knob on the north side. There is an old two track leading off of M-123. Site being used as a shooting active shooting range with tables. Grass appears mowed.												
				<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Scotch Pine</td> <td>Low</td> <td>&gt;20 feet</td> <td>Pole</td> </tr> <tr> <td>Bigtooth Aspen</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> </tbody> </table>				Sub-Canopy Species	Density	Avg. Height	Size	Scotch Pine	Low	>20 feet	Pole	Bigtooth Aspen	Low	Variable	Sapling
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