

Compartment Review Presentation

Newberry Forest Management Unit

Compartment 42039

Entry Year: 2027

Acreage: 2,159

County: Luce

Management Area: Grand Marais Moraine Complex

Stand Examiner: Lloyd Martindale

Legal Description:

T49N R09W Sections 2, 3, 10, 11, 14 & 15

Identified Planning Goals:

Restore overstory species of jack pine and/or red pine and oak, naturally or artificially, within the Duck Lake Fire area, through proper management, while providing for wildlife habitat and recreational opportunities.

Soil and topography:

Rubicon sand, intermixed with Rubicon-Spot complex, dominates the compartment, which is mostly flat to shallow rolling uplands. Some inclusions of steep sandy ridges along with low bog areas mostly to the south. The bog areas are on Croswell-Spot complex and Dawson, Greenwood, and Loxley soils.

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

State lands abut to the north and west with private camps located along the Little Two-Hearted River and Pike Lake. Many camps that were burned in the Duck Lake Fire have been rebuilt.

Unique Natural Features:

Barclay Lakes Dry Northern Forest and bog ERA's. MNFI has identified several threatened and endangered flora and fauna, and the potential for others.

Archeological, Historical, and Cultural Features:

Old fire tower location within the compartment.

Special Management Designations or Considerations:

Barclay Lakes ERA was once proposed as a Natural Area.

Watershed and Fisheries Considerations:

Fisheries Concerns: This compartment contains portions of the Little Two Hearted River, Little Pike Lake, and borders Pike Lake. The Little Two Hearted River in this area contains native Brook Trout and is a popular fishery. Little Pike Lake has moderate fisheries values in that during high water years it serves as a spawning marsh for Northern Pike and minnow species from Pike Lake. All activity near any surface water should follow standard best management practices (BMP's).

Wildlife Habitat Considerations:

Compartment 39 is located in northern Luce county and is in the Grand Marais Moraine Complex Management Area. The compartment was almost entirely burned over in the recent Duck lake fire and jack pine stands are being regenerated by natural or artificial means. Stands in the central part of the compartment had a heavy oak component but generally the compartment has poor diversity overall. There are few stands of mature timber remaining and harvest is being prescribed due to insect damage. Any non-pine species will be retained for diversity to benefit wildlife. Species utilizing this compartment include white-tailed deer and open land bird species. Featured species include Blackburnian warbler, black throated blue warbler, American marten, Kirtland's warbler, red crossbill, spruce grouse, ruffed grouse and white-tailed deer.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of lacustrine sand and gravel. There is insufficient data to determine the glacial drift thickness (~ >100 feet). The Precambrian Jacobsville Sandstone subcrops below the glacial drift. The Jacobsville was used as a building stone in the past. Gravel pits are not located in the area, but there may be some potential. There is no economic oil and gas production in the UP.

Vehicle Access:

County Road 414 runs along the southern portion of the compartment and County Road 412 borders the north end. Interior roads and fire lanes are poor sandy two-tracks.

Survey Needs:

None needed at this time.

Recreational Facilities and Opportunities:

Pike Lake Campground is located in the southwest corner of the compartment. The Two-Heart ORV trail runs through the compartment and snowmobile trail #8 runs along a portion of the west boundary and County Road 412 on the north boundary.

Fire Protection:

As part of the Two Hearted Zone Dispatch Area it has the potential for large fire runs because of the continuous Jack Pine fuel type as witnessed by the Duck Lake Fire in 2012. Private property adjacent to this compartment around Pike Lake and Little Two Hearted River could be at risk to wildfires. The scattering of different age classes in the Jack Pine, simulating fuel breaks, may need to be restored over the years to help suppression efforts. The accessibility for fire suppression is good because of the sandy soils.

Additional Compartment Information:

The following reports from the Inventory are attached:

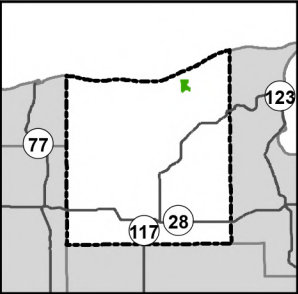
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

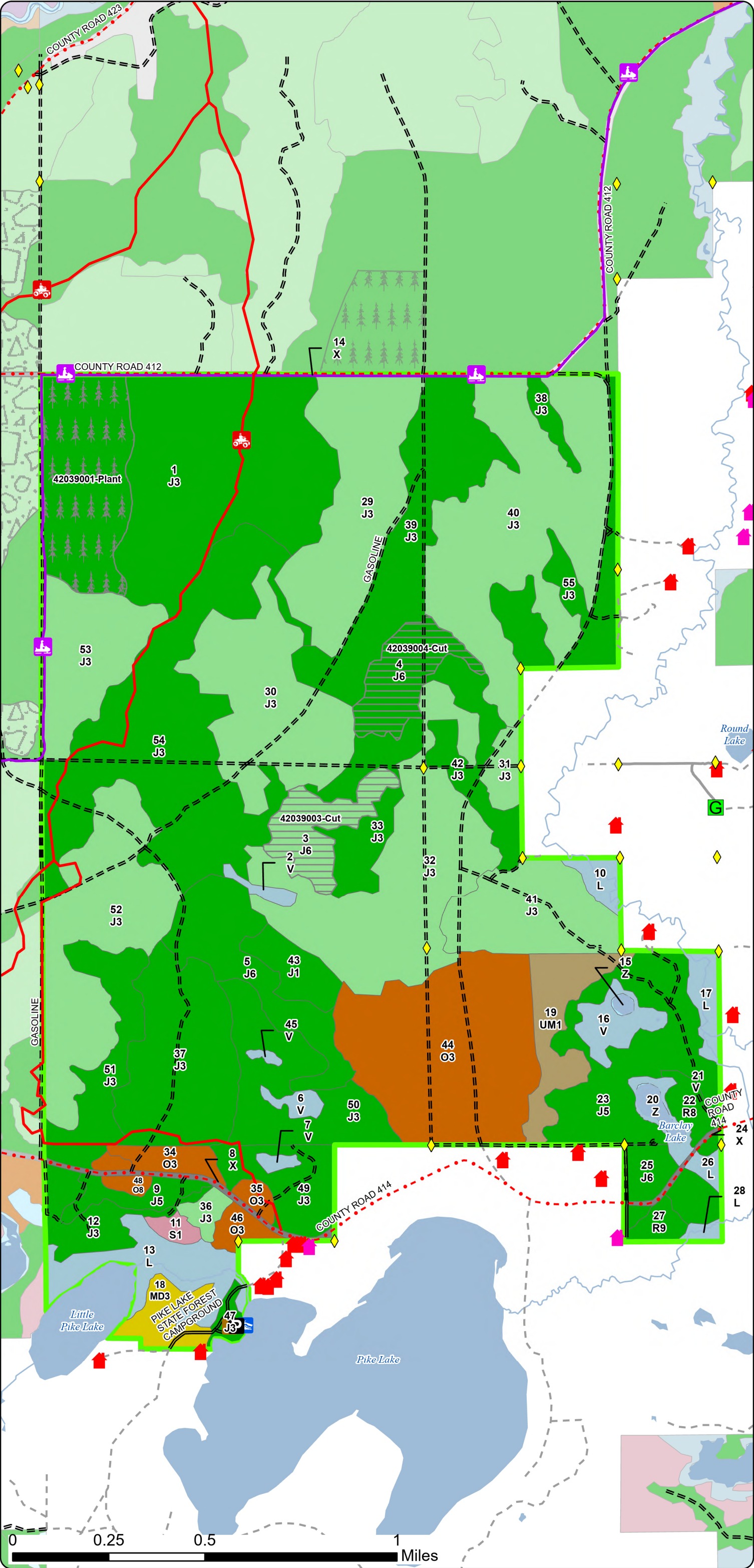
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 42039
T49N R09W 02,03,10,11,14,15
County: Luce
Unit: Newberry
Mgmt. Area: Grand Marais Moraine Complex
YOE: 2027
Acres: 2,158.76 GIS Calculated
Examiner: Lloyd Martindale
Date Exported: 08/19/2025
Map Phase: Web Post

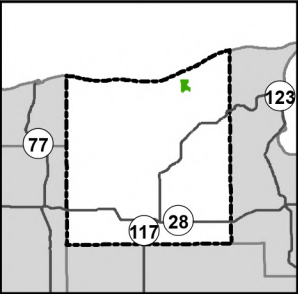


- Survey Grade Corners
- Cabin
- Structure, Seasonal Dwelling
- Gate
- Boating Access Site
- Campground
- Parking Lot
- Designated Snowmobile Trails
- Designated ATV Trails
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- County - Gravel Road
- Private - Paved Road
- Private - Dirt / Gravel Road
- Perennial River
- Lakes and Rivers
- Counties
- Compartment Boundary
- Clearcut
- Planting (tree species)
- Planting (tree species)
- Monitoring - Regeneration
- 412 - Oak Types
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 430 - Upland Mixed Forest
- 500 - Water
- 612 - Lowland Coniferous Forest
- 122 - Road/Parking Lot
- 622 - Lowland Shrub

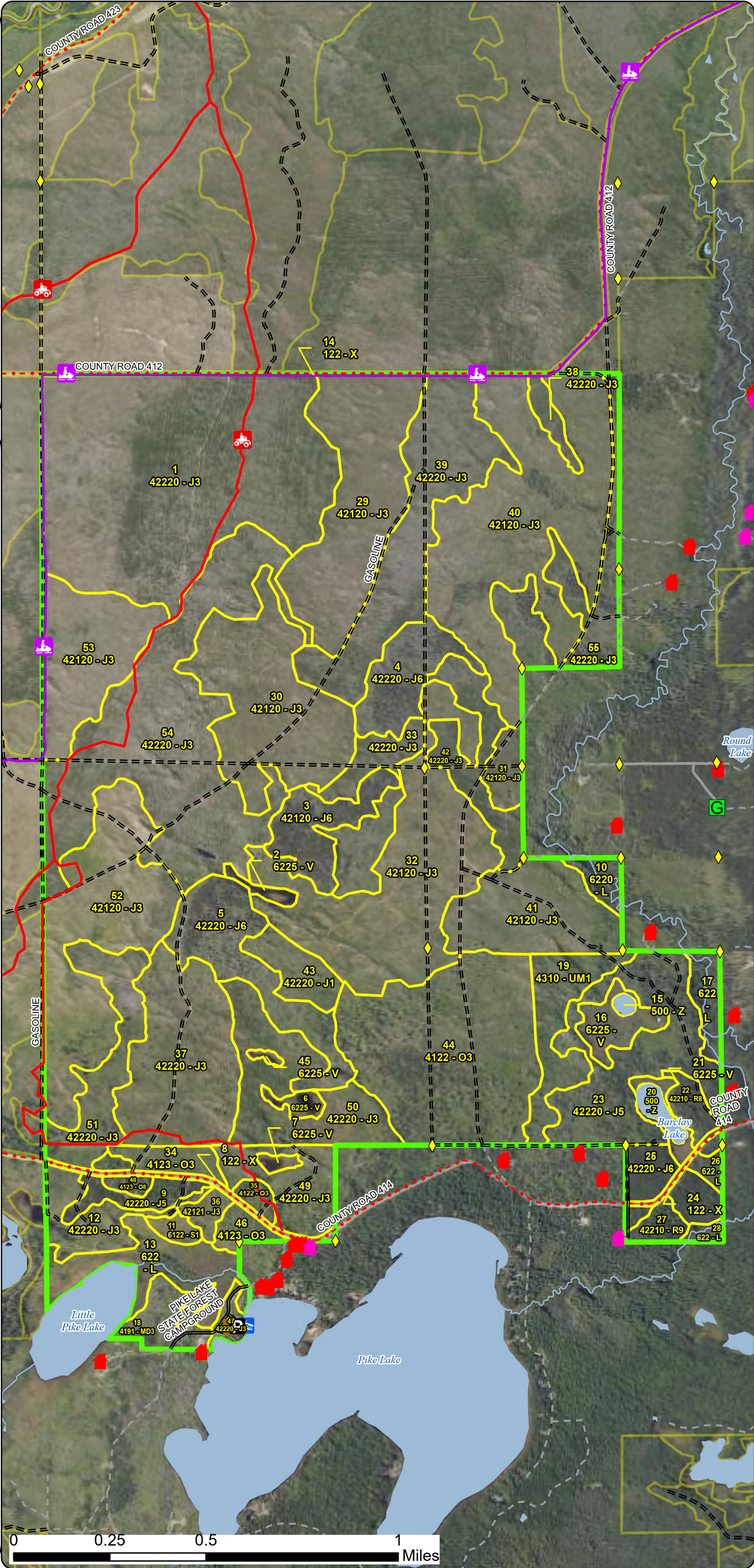


Stand Boundary
Map

Compartment: 42039
T49N R09W 02,03,10,11,14,15
County: Luce
Unit: Newberry
Mgmt. Area: Grand Marais Moraine
Complex
YOE: 2027
Acres: 2,158.76 GIS Calculated
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- Survey Grade Corners
- Cabin
- Structure, Seasonal Dwelling
- Gate
- Boating Access Site
- Campground
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- Designated Snowmobile Trails
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Report 1 – Total Acres by Cover Type and Age Class

Newberry Mgt. Unit

Compartment 39

Year of Entry 2027

Lloyd Martindale: 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
Bog	34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	34
Jack Pine	0	158	1424	0	13	0	51	31	74	51	0	0	0	0	0	0	0	0	1802
Lowland Shrub	67	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	67
Lowland Spruce/Fir	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Mixed Upland Deciduous	0	0	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18
Oak	0	0	157	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	163
Red Pine	0	0	0	0	0	0	0	0	0	11	0	0	8	0	0	0	0	0	19
Upland Mixed Forest	0	0	34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	34
Urban	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
Water	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
Total	120	158	1638	0	13	0	51	31	74	68	0	0	8	0	0	0	0	0	2161

Report 2 – Treatment Summary

Newberry Mgt. Unit
Year of Entry: 2027

Acres of Harvest

Compartment 39
Total Compartment Acres: 2,159

Commercial Harvest - 571
Harvests with Site Condition - 0
Next Step Harvest - 0
Habitat Cut - 0

Cover Type by Harvest Method

		Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Oversory Removal	Salvage	Other	Total Acres
Jack Pine		60	0	0	0	0	0	0	0	0	60
	Total	60	0	0	0	0	0	0	0	0	60

Proposed and Next Step Treatments by Method

		Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current		60	0	79	0	0	0	0	0	0	139
Next Step		0	121	181	0	0	0	370	0	0	672
	Total	60	121	260	0	0	0	370	0	0	812

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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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Proposed Treatments:

1	42039001-Plant	79.0	42220 - Natural Jack Pine	3	13		Planting	Planting (tree species)	4212 - Planted Jack Pine	Planting Record	No
<u>Prescription</u> Flat plant jack pine seedlings, around existing natural jack pine, to bring tree stocking to up to fully stocked. <u>Specs:</u> <u>Next Step</u> Monitoring, Artificial Regen; Monitoring, Artificial Regen (3yr) <u>Treatments:</u> <u>Acceptable</u> jack pine <u>Regen:</u> <u>Other</u> 7-24-2025 seedling-sapling check was completed and showed an average of 105 trees/acre. Plots ranged from as high as 600 TPA to 0 <u>Comment:</u> TPA. Average sapling is 10' tall. <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2025											
3	42039003-Cut	29.2	42120 - Planted Jack Pine	6	58	81-110	Harvest	Clearcut	4222 - Natural Jack Pine	Planting Record	No
<u>Prescription</u> Cut all jack pine. Leave all other tree species if present. Harvest prescribed for forest health, jack pine budworm. Current heavy <u>Specs:</u> infestation. Potential outbreak hot spot. <u>Next Step</u> SitePrep, Trenching; SitePrep, Scarification; Planting, Initial Plant; Planting, Unfurrowed; Monitoring, Natural Regen (Intermediate); <u>Treatments:</u> Monitoring, Artificial Regen; Monitoring, Artificial Regen (3yr); Planting, Replant <u>Acceptable</u> jack pine <u>Regen:</u> <u>Other</u> Harvest with stand 4. If natural regeneration fails plant jack pine. Not all acres will be set up for harvest. Areas of heavy tree mortality that no <u>Comment:</u> longer have commercial timber volumes of alive jack pine will be excluded from harvest area. Areas of adv <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/29/2025											
4	42039004-Cut	31.2	42220 - Natural Jack Pine	6	65	81-110	Harvest	Clearcut	4222 - Natural Jack Pine	Planting Record	No
<u>Prescription</u> Cut all jack pine. Leave all other tree species if present. Harvest prescribed for forest health, jack pine budworm. Current heavy <u>Specs:</u> infestation. Potential outbreak hot spot. <u>Next Step</u> Monitoring, Natural Regen (Intermediate); SitePrep, Trenching; SitePrep, Scarification; Planting, Initial Plant; Planting, Unfurrowed; <u>Treatments:</u> Monitoring, Natural Regen (Intermediate); Monitoring, Artificial Regen; Monitoring, Artificial Regen (3yr) <u>Acceptable</u> jack pine <u>Regen:</u> <u>Other</u> Harvest with stand 3. If natural regeneration fails flat plant jack pine seedlings f natural regeneration fails plant jack pine. Not acres will be set <u>Comment:</u> up for harvest. Areas of heavy tree mortality that no longer have commercial timber volumes of alive jac <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/29/2025											

Total Treatment 139.4
Acreage Proposed:

Report 4 – Site Conditions

Newberry Mgt. Unit
Lloyd Martindale: Examiner

Compartment: 39
Year of Entry: 2027



Availability for Management

Total Acres Acres Available Acres With Condition Acres Not Available

Dominant Site Conditions

1C 3A 3D 3J 5E

34	13	0	21	Bog		21			
1798	1671	0	128	Jack Pine		119	6		3
67	55	0	12	Lowland Shrub		12			
5	5	0	0	Lowland Spruce/Fir					
18	18	0	0	Mixed Upland Deciduous					
163	163	0	0	Oak					
18	0	0	18	Red Pine	8	9		2	
34	0	0	34	Upland Mixed Forest		34			
12	12	0	0	Urban					
7	0	0	7	Water		7			
2,155	1,936		219	Total Forested Acres	8	201	6	2	3
	90%		10%	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
2	Unavailable	1C: Other Dept. or Div. process	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
3	Unavailable	3A: Conservation values incompatible with harvest at this time	30	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Dry northern forest. Includes retention pockets left from Duck Lake Salvage efforts.							
4	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Retention pockets left from Duck Lake Salvage efforts.							

Report 4 – Site Conditions

Newberry Mgt. Unit
Lloyd Martindale: Examiner

Compartment: 39
Year of Entry: 2027



6	Unavailable	3D: Recreational/scenic values	6	3J: Water quality/BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments: Pike Lake Campground.							
7	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Includes proposed Barclay Lake Natural Area. No active management has occurred here since prior to 1974, when originally proposed.							
8	Unavailable	3A: Conservation values incompatible with harvest at this time	157	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Includes proposed Barclay Lake Natural Area. No active management has occurred here since prior to 1974, when originally proposed.							
10	Unavailable	3A: Conservation values incompatible with harvest at this time	16	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
Comments: Retention pockets left from Duck Lake Salvage efforts. Barclay Lakes ERA							

Mgt. Unit

Compartment: #Type!

Year of Entry:

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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																															
1	42220 - Natural Jack Pine	Sapling Well	240.1	13		N/A	Burned in Duck Lake Fire May 2012. Salvage cut 2012 DLS #5, sale #42-028-12-01. Western half was regenerated in 2000. Some areas may need to be filled in with trees. Regeneration survey 2015: 1859 trees/acre (1490 jack pine and 369 red pine).																															
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Jack Pine</td><td>90</td><td>Log</td><td>2</td><td>13</td></tr><tr><td>Red Pine</td><td>10</td><td>Log</td><td>2</td><td>13</td></tr></table>						Canopy Species		% Cover	Size Class	DBH	Age	Jack Pine	90	Log	2	13	Red Pine	10	Log	2	13																	
Canopy Species	% Cover	Size Class	DBH	Age																																		
Jack Pine	90	Log	2	13																																		
Red Pine	10	Log	2	13																																		
2	6225 - Bog	None	3.9			No	Seasonally holds water.																															
3	42120 - Planted Jack Pine	Poletimber Well	29.2	58	81-110	N/A	Previous retention area from Duck Lake Salvage.																															
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Red Pine</td><td>10</td><td></td><td>12</td><td></td></tr><tr><td>Jack Pine</td><td>90</td><td>Seedling</td><td>8</td><td>58</td></tr></table>								Canopy Species	% Cover	Size Class	DBH	Age	Red Pine	10		12		Jack Pine	90	Seedling	8	58																
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4	42220 - Natural Jack Pine	Poletimber Well	31.2	65	81-110	N/A	Previously left as a retention area from Duck Lake Salvage.																															
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Jack Pine</td><td>100</td><td>Seedling</td><td>9</td><td>65</td></tr></table>								Canopy Species	% Cover	Size Class	DBH	Age	Jack Pine	100	Seedling	9	65																					
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Jack Pine	100	Seedling	9	65																																		
5	42220 - Natural Jack Pine	Poletimber Well	50.7	82	81-110	N/A	LONG TERM RETENTION.Retention area from Duck Lake Salvage.11-20-2024 Heavy top die back with tree mortality. BUDWORM DAMAGE.																															
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Red Pine</td><td>5</td><td></td><td>12</td><td></td></tr><tr><td>Jack Pine</td><td>95</td><td>Seedling</td><td>8</td><td>82</td></tr></table>								Canopy Species	% Cover	Size Class	DBH	Age	Red Pine	5		12		Jack Pine	95	Seedling	8	82																
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Red Pine	5		12																																			
Jack Pine	95	Seedling	8	82																																		
6	6225 - Bog	None	4.8			No	Seasonally holds water.																															
7	6225 - Bog	None	2.6			No	seasonally holds water. Wetland grasses surrounded by wetland brush on edges.																															
8	122 - Road/Parking Lot	None	7.1			No	County Road 414.																															
9	42220 - Natural Jack Pine	Poletimber Medium	12.6	33	51-80	N/A	Burned in Duck Lake Fire May 2012. Part of salvage sale 2012 DLS #11, sale #42-032-12-01. Mostly live trees that survived the fire. Some mortality. Regeneration survey 2015 shows oak at 267 trees/acre.																															
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Jack Pine</td><td>90</td><td>Seedling</td><td>6</td><td>33</td></tr><tr><td>Red Oak</td><td>2</td><td>Log</td><td>1</td><td>12</td></tr><tr><td>Red Maple</td><td>8</td><td>Log</td><td>3</td><td></td></tr></table>			Canopy Species	% Cover	Size Class	DBH	Age	Jack Pine	90	Seedling	6	33	Red Oak	2	Log	1	12	Red Maple	8	Log	3		<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Red Maple</td><td>Low</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr><tr><td>Red Oak</td><td>Low</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr></table>		Sub-Canopy Species	Density	Avg. Height	Size	Red Maple	Low	5 - 10 feet	5 - 10 feet	Red Oak	Low	5 - 10 feet	5 - 10 feet	11-20-2024 Large saplings and small pole timber jack pine.	
Canopy Species	% Cover	Size Class	DBH	Age																																		
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Red Maple	Low	5 - 10 feet	5 - 10 feet																																			
Red Oak	Low	5 - 10 feet	5 - 10 feet																																			
Healthy growing well.																																						
10	6220 - Alder/Willow	None	8.4			No	River corridor-riparian area.																															

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
11	6122 - Black Spruce	Sapling Poor	4.8	13		N/A	Burned in Duck Lake Fire May 2012. Not salvaged due to age (circa 2000). Black spruce/jack pine.1/22/21 - JAT - Stand had an RX for seeding to jack pine from 5+ years ago. Treatment was terminated per discussion with UM. No notes on whether the treatment was completed. Evaluate the need for seeding to enhance regeneration at next inventory cycle. Stand was burned hard during the Duck Lake Fire.11-20-2024 Very wet soils. Spruce and jack pine seedlings appear to be yellowing. Possible change in water table maybe the issue.			
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
	Black Spruce	60	Log	1	13	Black Spruce		Medium	< 5 feet	< 5 feet
	Jack Pine	40	Log	1	13	Jack Pine		Medium	< 5 feet	< 5 feet
12	42220 - Natural Jack Pine	Sapling Well	24.1	13	Immature		N/A	Burned in Duck Lake Fire May 2012. Not salvaged due to age (circa 2000). Patchy regeneration.Rolling hills. Advanced jack pine seedlings.2024 Areas of oak, red pine and white pine saw and pole timber scattered throughout.		
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
	Jack Pine	75	Log	1	13	Red Oak	Medium		5 - 10 feet	5 - 10 feet
	Red Pine	10		12	60	Jack Pine	Low		5 - 10 feet	5 - 10 feet
	White Pine	15		14	60	Red Maple	Low		5 - 10 feet	5 - 10 feet
13	622 - Lowland Shrub	None	39.5				No	Lowland around Little Pike Lake and stream to Pike Lake.Stunted spruce and jack pine seedling and sapling throughout.		
14	122 - Road/Parking Lot	None	2.5				No	County Road 412.		
15	500 - Water	None	1.7				No	Small lake.		
16	6225 - Bog	None	15.1				No	Bog surrounding small lake.		
17	622 - Lowland Shrub	None	11.9				No	Little Two-Hearted River and connected wetlands-Riparian zone.		
18	4191 - Mixed Upland Deciduous with Conifer	Sapling Well	18.4	13	Immature		N/A	Burned in Duck Lake Fire May 2012. Burned hard through the stand of hemlock and white pine. Some salvage cutting done by small permit. Some red maple stump sprouts and a few white pine seedlings present.1/22/21 - JAT - Stand had an RX for seeding to white pine from 5+ years ago. Treatment was terminated per discussion with UM. No notes on whether the treatment was completed. Evaluate the need for seeding to enhance regeneration at next inventory cycle. Stand was burned hard during the Duck Lake Fire.2024: Stand is naturally filling in with trees. Mix of aspen, red maple, jack pine, white pine seedlings. Lot of burned white pine snags.		
	Canopy Species	% Cover	Size Class	DBH	Age					
	Jack Pine	30	Log	1	13					
	Bigtooth Aspen	30	Log	1	13					
	White Pine	10	Log	1	13					
	Red Maple	30	Log	1	13					
19	4310 - Pine, Oak Mix	Sapling Poor	33.7	13	1-50		N/A	Very hilly terrain in areas		
	Canopy Species	% Cover	Size Class	DBH	Age					
	Jack Pine	50	Log	1	13					
	Red Oak	25	Log	1	13					
	Bigtooth Aspen	25	Log	1	13					

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																													
20	500 - Water	None	4.9			No	Barclay Lake.																																													
21	6225 - Bog	None	5.9			No	Bog surrounding Barclay Lake.																																													
22	42210 - Natural Red Pine	Sawtimber Medium	10.8	80	141-170	N/A	Burned in Duck Lake Fire 2012. Mostly under burned and fire scarred. Occasional oak.																																													
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>White Pine</td><td>9</td><td></td><td>16</td><td></td></tr><tr><td>Red Pine</td><td>85</td><td></td><td>16</td><td>80</td></tr><tr><td>Jack Pine</td><td>6</td><td>Seedling</td><td>8</td><td></td></tr></table>					Canopy Species	% Cover		Size Class	DBH	Age	White Pine	9		16		Red Pine	85		16	80	Jack Pine	6	Seedling	8		<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Red Maple</td><td>Low</td><td>< 5 feet</td><td>< 5 feet</td></tr></table>		Sub-Canopy Species	Density	Avg. Height	Size	Red Maple	Low	< 5 feet	< 5 feet																	
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23	42220 - Natural Jack Pine	Poletimber Medium	74.2	70	81-110	N/A	Burned during the Duck Lake Fire 2012. Mostly underburned, but definitely fire scarred. Some mortality from the fire. Occasional oak. 11-20-24Jack pine budworm damage with tree mortality.Areas of advanced jack pine seedling sapling regeneration																																													
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Jack Pine</td><td>87</td><td></td><td>8</td><td>70</td></tr><tr><td>Red Pine</td><td>10</td><td></td><td>16</td><td></td></tr><tr><td>White Pine</td><td>3</td><td></td><td>12</td><td></td></tr></table>					Canopy Species	% Cover		Size Class	DBH	Age	Jack Pine	87		8	70	Red Pine	10		16		White Pine	3		12		<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Red Maple</td><td>Low</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr></table>		Sub-Canopy Species	Density	Avg. Height	Size	Red Maple	Low	5 - 10 feet	5 - 10 feet																	
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24	122 - Road/Parking Lot	None	2.4			No	County Road 414.																																													
25	42220 - Natural Jack Pine	Poletimber Well	22.1	51	111-140	N/A	Nice stand of young jack pine. 11-20-2024 Currently commercial timber volumes young healthy jack pine pole timber.																																													
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Jack Pine</td><td>90</td><td>Seedling</td><td>8</td><td>51</td></tr><tr><td>White Pine</td><td>5</td><td></td><td>12</td><td></td></tr><tr><td>Red Pine</td><td>5</td><td></td><td>10</td><td></td></tr></table>					Canopy Species	% Cover		Size Class	DBH	Age	Jack Pine	90	Seedling	8	51	White Pine	5		12		Red Pine	5		10		<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Paper Birch</td><td>Low</td><td>Variable</td><td>Variable</td></tr><tr><td>Red Maple</td><td>Low</td><td>Variable</td><td>Variable</td></tr></table>		Sub-Canopy Species	Density	Avg. Height	Size	Paper Birch	Low	Variable	Variable	Red Maple	Low	Variable	Variable													
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26	622 - Lowland Shrub	None	3.9			No	Outflow of Barclay Lake.																																													
27	42210 - Natural Red Pine	Sawtimber Well	7.5	110	111-140	N/A	11-20-2024 Unavailable.White pine seedling sapling regeneration																																													
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28	622 - Lowland Shrub	None	3.1			No	South Branch Little Two-Hearted River and surrounding riparian area. Small area of mixed conifer south of the river.																																													
29	42120 - Planted Jack Pine	Sapling Well	94.5	12		N/A	Burned in Duck Lake Fire May 2012. Planted May 2013, no trenches, 5 x 8 spacing, approx 1200 trees/acre. FTP# 42-831. Regeneration survey 2015: 526 trees/acre (jack pine).11-20-2024 well stocked jack pine saplings																																													
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
30	42120 - Planted Jack Pine	Sapling Well	91.5	12		N/A	Burned in Duck Lake Fire May 2012. Planted May 2013, no trenches, 5 x 8 spacing, approx 1200 trees/acre. FTP# 42-831. Regeneration survey 2015: 635 trees/acre (580 jack pine and 55 red pine).11-20-2024 Well stocked jack pine saplings			
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
	Jack Pine	100	Log	1	12	Jack Pine		High	5 - 10 feet	5 - 10 feet
31	42120 - Planted Jack Pine	Sapling Well	11.3	12		N/A	Burned in Duck Lake Fire May 2012. Planted May 2013, no trenches, 5 x 8 spacing, approx 1200 trees/acre. FTP# 42-830. Regeneration survey 2015: 400 trees/acre (jack pine).11-20-2024 well stocked jack pine saplings			
	Canopy Species	% Cover	Size Class	DBH	Age					
	Jack Pine	100	Log	1	12					
32	42120 - Planted Jack Pine	Sapling Well	128.8	12		N/A	Regen Check: 10/15/2019 - Planted JP 833 TPA, volunteer JP 300 TPA. Good seedling coverage across site. Monitor for spraying however unlikely.			
	Canopy Species	% Cover	Size Class	DBH	Age					
	Jack Pine	100	Log	1	12					
33	42220 - Natural Jack Pine	Sapling Well	34.1	12		N/A	06/12/18- Plantation TPA is approximately 420.			
	Canopy Species	% Cover	Size Class	DBH	Age					
	Jack Pine	100	Log	1	12					
34	4123 - Red Oak	Sapling Well	11.5	12	Immature	N/A	Burned in Duck Lake Fire May 2012. Planted to jack pine May 2013, no trenches, 5 x 8 spacing, approx 1200 trees/acre. FTP# 42-831. Regeneration survey in 2015 revealed 675 trees/acre (525 jack pine and 150 oak). Oak saplings over planted jack pine. Western third of stand is mainly oak, middle is more open with planted jack pine, and eastern end has oak saplings over jack pine, but not as prevalent as western end.10-20-2024 Fully stocked jack pine and oak mix saplings			
	Canopy Species	% Cover	Size Class	DBH	Age					
	Red Maple	16	Log	1						
35	4122 - Oak, Pine	Sapling Well	4.8	12	Immature	N/A	Burned in Duck Lake fire May 2012. Salvage cut 2012 DLS #10, sale #42-033-12-01. Planted 2 acres in May 2013, no trenches, 5 x 8 spacing, approx 1200 trees/acre. FTP# 42-831. Enlarged the stand to encompass oak regeneration in 2015 after regeneration survey results (8400 trees/acre - 500 JP, 7900 oak). Nice natural oak regeneration over some planted jack pine.10-20-2024 Well stocked oak and jack pine saplings. Few red pine.			
	Canopy Species	% Cover	Size Class	DBH	Age					
	Red Pine	10	Log	1						
36	42121 - Planted Jack Pine, Mixed Deciduous	Sapling Well	6.4	12		N/A	Burned in Duck Lake Fire May 2012. Salvage cut 2012 DLS #11, sale #42-032-12-01. Planted May 2013, no trenches, 5 x 8 spacing, approx 1200 trees/acre. FTP# 42-831. Regeneration survey 2015: 300 trees/acre (jack pine). 9/2/15 visit w/ TMS: regeneration OK.10-20-2024 Fully stocked jack pine and oak saplings.			
	Canopy Species	% Cover	Size Class	DBH	Age					
	Jack Pine	70	Log	1	12					

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																									
37	42220 - Natural Jack Pine	Sapling Well	81.6	13		N/A	Burned in Duck Lake Fire May 2012. Regeneration survey 2015: 350 trees/acre (jack pine). Standing submerchantable jack pine snags from 2000. 9/2/2015: nice natural regeneration.10-20-2024 Well stocked jack pine saplings with some oak and red pine saplings																									
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Jack Pine	90	Log	1	13																												
38	42220 - Natural Jack Pine	Sapling Well	7.5	12		N/A	Burned in Duck Lake Fire May 2012. Part of salvage sale DLS #5, sale #42-028-12-01, but was not cut. Regeneration survey 2015 (minus areas to be roller chopped): 275 trees/acre (jack pine). A few areas with live standing jack pine that fire did not kill, but too small to type out.10-20-2024 Well stocked jack pine saplings about 5" tall average.																									
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39	42220 - Natural Jack Pine	Sapling Well	85.8	12		N/A	Burned in Duck Lake Fire May 2012. Part of salvage sale DLS #5, sale #42-028-12-01, but was not cut. Standing dead snags. Regeneration survey 2015: 758 trees/acre (jack pine).10-20-24 Well stocked jack pine seedlings-saplings 5' tall.																									
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40	42120 - Planted Jack Pine	Sapling Well	157.7	8	Immature	N/A	06/12/18= JP TPA= 576 fully stocked.Burned in Duck Lake Fire May 2012. Part of salvage sale DLS #5, sale #42-028-12-01, but was not cut. Regeneration survey 2015 (minus areas to be roller chopped): 275 trees/acre (jack pine). A few areas with live standing jack pine that fire did not kill, but too small to type out.6/2016: Roller chopped 3 units of approximately 100 acres of 116 prescribed, under FTP C42-898. Less acreage completed due to pockets of advanced regeneration. FTP C42-899 covers whole area (stand) to be planted (211 acres).FTP # 42-899. Planted to JP without trenches 5/16/2017.10-20-2024 Fully stocked jack pine seedling/saplings ave 6' tall.																									
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41	42120 - Planted Jack Pine	Sapling Well	57.0	13		N/A	10/15/19 - 3rd Year Regeneration Survey: 750 TPA JP; fully stocked. Competition from aspen on eastern edge.06/12/18- JP plantation TPA= 691, fully stocked.Burned in Duck Lake Fire May 2012. Salvage cut 2012 DLS #10, sale #42-033-12-01. Regeneration survey 2015: varied trees/acre, with better regen on east end. 1/18/2017: FTP C42-890. Roller chopped summer 2016. Skipped areas of advanced regeneration and areas too sandy to pull chopper.FTP # 42-890. Hand planted to JP without trenches 5/19/17.10-20-2024 Fully stocked jack pine seedlings/saplings 5' tall ave.																									
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Quaking Aspen	Low	Variable	Variable																													
42	42220 - Natural Jack Pine	Sapling Well	32.5	13		N/A	Burned in Duck Lake Fire May 2012. Salvage cut 2012 DLS #5, sale #42-028-12-01 & DLS #10, sale #42-033-12-01. Northern portion of stand, north of fire lane (DLS #5) was not cut (standing snags). Regeneration survey 2015: 2586 trees/acre (jack pine).10-20-2024 Fully stocked jack pine saplings 10' tall average																									
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43	42220 - Natural Jack Pine	Sapling Poor	17.9	12		N/A	Burned in Duck Lake Fire May 2012. Salvage cut 2012 DLS #10, sale #42-033-12-01. Regeneration survey 2015: 1075 trees/acre (jack pine).10-20-2024 Fully stocked jack pine seedling/saplings																									
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																									
44	4122 - Oak, Pine	Sapling Well	132.7	12	1-50	N/A	Duck Lake fire May 2012. Salvage cut 2012 DLS #10, sale #42-033-12-01. Oak/pine mix. Some jack pine, cut in 2000 and 1994, survived the fire (scattered patches). Regeneration survey in 2015 revealed 712 trees/acre (76 JP and 636 oak). Residual BA = 7.10-20-2024 fully stocked oak and jack pine seedling/saplings																									
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45	6225 - Bog	None	1.4			No	Holds water seasonally.																									
46	4123 - Red Oak	Sapling Well	8.1	12	Immature	N/A	Burned in Duck Lake Fire May 2012. Salvage cut 2012 DLS #11, sale #42-032-12-01. Residual oak is all standing dead. Nice regen on top of hill, less further down the hill. Regeneration survey 2015 shows 1400 trees/acre (50 jack pine, 1000 oak and 350 aspen). 10-20-2024 Fully stocked 15' tall oak and jack pine saplings																									
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47	42220 - Natural Jack Pine	Sapling Well	6.1	12		N/A	Pike Lake Campground. Burned in Duck Lake Fire May 2012. Salvage cut around Pike Lake Campground as part of Duck Lake Campground Salvage. Some red and white pine still alive around the campground area. Some pine has seeded in along the road, as well as red maple stump sprouts.11-20-2024 Patch of large pine that did not burn.																									
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48	4123 - Red Oak	Sawtimber Medium	5.7	85	1-50	N/A	Burned in Duck Lake Fire May 2012. Salvage cut 2012 DLS #11, sale #42-032-12-01. Oak and aspen sprouts with oak and red pine overstory. Regeneration survey 2015 showed 1800 trees/acre (1200 oak and 600 aspen).11-20-2024 oak, pine mix saw and poles over oak, pine saplings.																									
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<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Bigtooth Aspen</td><td>Medium</td><td>10 - 20 feet</td><td>10 - 20 feet</td></tr><tr><td>Jack Pine</td><td>Low</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr><tr><td>Red Oak</td><td>High</td><td>10 - 20 feet</td><td>10 - 20 feet</td></tr></table>							Sub-Canopy Species	Density	Avg. Height	Size	Bigtooth Aspen	Medium	10 - 20 feet	10 - 20 feet	Jack Pine	Low	5 - 10 feet	5 - 10 feet	Red Oak	High	10 - 20 feet	10 - 20 feet										
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49	42220 - Natural Jack Pine	Sapling Well	30.1	12	Immature	N/A	Burned in Duck Lake Fire May 2012. Salvage cut 2012 DLS #10, sale #42-033-12-01. Regeneration survey 2015: 599 trees/acre (55 jack pine, 244 oak and 300 red maple).1/18/2016: Cancelled roller chopping. Most of trees have fallen and compacted for planting. May need to check regeneration before planting. FTP C42-891.10/2017: adequate natural regeneration present. FTP 42-891 to be cancelled.11-20-2024 Fully stocked 10' tall jack pine and oak.																									
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Jack Pine</td><td>75</td><td>Log</td><td>1</td><td>12</td></tr><tr><td>Red Pine</td><td>5</td><td>Log</td><td>1</td><td>12</td></tr><tr><td>Red Oak</td><td>20</td><td>Log</td><td>1</td><td>12</td></tr></table>								Canopy Species	% Cover	Size Class	DBH	Age	Jack Pine	75	Log	1	12	Red Pine	5	Log	1	12	Red Oak	20	Log	1	12					
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Jack Pine	75	Log	1	12																												
Red Pine	5	Log	1	12																												
Red Oak	20	Log	1	12																												
50	42220 - Natural Jack Pine	Sapling Well	57.2	12		N/A	Burned in Duck Lake Fire May 2012. Salvage cut 2012 DLS #10, sale #42-033-12-01. Regeneration survey 2015: 3000 trees/acre (2767 jack pine, 166 red pine and 67 oak). There are other low areas extending near the bog areas already typed out. 11-20-2024 Fully stocked 10' tall jack pine saplings																									
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Red Pine</td><td>10</td><td>Log</td><td>1</td><td>12</td></tr><tr><td>Jack Pine</td><td>85</td><td>Log</td><td>1</td><td>12</td></tr><tr><td>Red Oak</td><td>5</td><td>Log</td><td>1</td><td>12</td></tr></table>								Canopy Species	% Cover	Size Class	DBH	Age	Red Pine	10	Log	1	12	Jack Pine	85	Log	1	12	Red Oak	5	Log	1	12					
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																					
51	42220 - Natural Jack Pine	Sapling Well	41.3	12		N/A	Burned in Duck Lake Fire May 2012. Salvage cut 2012 DLS #9, sale #42-032-12-01. Regeneration survey 2015: 2670 trees/acre (2400 jack pine, 10 red pine, 260 oak).11-20-2024 Fully stocked 10' tall jack pine saplings																					
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Red Oak</td><td>5</td><td>Log</td><td>1</td><td>12</td></tr><tr><td>Jack Pine</td><td>80</td><td>Log</td><td>1</td><td>12</td></tr><tr><td>Red Pine</td><td>15</td><td>Log</td><td>1</td><td>12</td></tr></table>						Canopy Species		% Cover	Size Class	DBH	Age	Red Oak	5	Log	1	12	Jack Pine	80	Log	1	12	Red Pine	15	Log	1	12		
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Red Oak	5	Log	1	12																								
Jack Pine	80	Log	1	12																								
Red Pine	15	Log	1	12																								
52	42120 - Planted Jack Pine	Sapling Well	103.9	12		N/A	Burned in Duck Lake Fire May 2012. Regeneration survey 2015: 350 trees/acre (jack pine). Standing submerchantable jack pine snags from 2000.FTP 42-893: Stand trenched 7/17. Planted to JP 5/12/18 (934 TPA plot data).10/25/2018 - 1yr regen check fully stocked.9/25/2020 - Third year regen survey: JP 732 TPA @ 1.2' with 84 TPA @ 2.7' JP volunteers. Very little competition. 11-20-2024 Fully stocked North end 5' tall planted jack pine. South end 10' tall natural jack pine. Scattered red and white pine sawtimber.																					
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Jack Pine</td><td>100</td><td>Log</td><td>1</td><td>12</td></tr></table>						Canopy Species		% Cover	Size Class	DBH	Age	Jack Pine	100	Log	1	12												
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Jack Pine	100	Log	1	12																								
53	42120 - Planted Jack Pine	Sapling Well	57.5	13	Immature	N/A	Regen Check: 10/18/2019 - Planted JP TPA 750. 06/12/18- JP TPA= 690, Fully stocked plantation.Burned in Duck Lake Fire May 2012. Not salvaged due to age (circa 1990). Regeneration survey 2015: 120 trees/acre (jack pine).1/18/2017: Roller chopping treatment terminated. Most of the trees have fallen down and compacted enough for planting to take place. FTP C42-892.Hand planted to JP without trenches 5/16/2017. FTP 42-892.11-20-2024 well stocked 4' tall jack pine seedligns																					
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Jack Pine</td><td>100</td><td>Log</td><td>1</td><td>13</td></tr></table>						Canopy Species		% Cover	Size Class	DBH	Age	Jack Pine	100	Log	1	13												
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Jack Pine	100	Log	1	13																								
54	42220 - Natural Jack Pine	Sapling Well	169.4	12		N/A	Burned in Duck Lake Fire May 2012. Salvage cut 2012 DLS #5, sale #42-028-12-01; DLS #9, sale #42-032-12-01; & DLS #10, sale #42-033-12-01. Regeneration survey 2015: 628 trees/acre (jack pine).11-20-2024 fully stocked with 4' tall jack pine saplings																					
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Jack Pine</td><td>100</td><td>Log</td><td>1</td><td>12</td></tr></table>						Canopy Species		% Cover	Size Class	DBH	Age	Jack Pine	100	Log	1	12	<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Jack Pine</td><td>Low</td><td>< 5 feet</td><td>< 5 feet</td></tr></table>	Sub-Canopy Species	Density	Avg. Height	Size	Jack Pine	Low	< 5 feet	< 5 feet			
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55	42220 - Natural Jack Pine	Sapling Well	45.4	12		N/A	Burned in Duck Lake Fire May 2012. Part of salvage sale DLS #5, sale #42-028-12-01, but was not cut. Regeneration survey 2015 (minus areas to be roller chopped): 275 trees/acre (jack pine). A few areas with live standing jack pine that fire did not kill, but too small to type out.Areas not roller chopped or planted.2024 well stocked jack pine 10'. Scattered very small patches of jack pine pole timber.																					
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Jack Pine</td><td>100</td><td>Log</td><td>1</td><td>12</td></tr></table>						Canopy Species		% Cover	Size Class	DBH	Age	Jack Pine	100	Log	1	12												
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