Compartment Review Presentation

Newberry Forest Management Unit

Compartment 42038 Entry Year: 2026 Acreage: 2,397 County: Luce

Management Area: Grand Marais Moraine Complex

Stand Examiner: Amy Livermore

Legal Description:

T50N, R09W, Sections 23-27, 34-36; T50N, R08W, Section 30

Identified Planning Goals:

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

Soil and topography:

Rubicon sand and Deer Park sand dominate the compartment. Topography ranges from level to rolling to steep dunes along Lake Superior shoreline and rivers. River bottoms are comprised of Croswell, rarely flooded-Deford, frequently flooded complex; and Carbondale, Lupton, and Tawas soils.

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

State lands border the west, south and east. Private land borders the north surrounding Little Lake. Three private 40's are within the compartment boundary. The whole comparment and surrounding area were burned in the Duck Lake Fire of 2012. This is the northeastern reaches of the fire. Numerous camps were burned or damaged and are currently being rebuilt. Rainbow Lodge was destroyed by the fire, but a couple cabins survived and canoe rental continues. Three Encroachment Resolution Initiative (ERI) trespasses were resolved in the area. There is a group trying to restore the old airstrip for recreational use.

Unique Natural Features:

Eagles and satiny willow have been observed. Piping plover habitat and high priority trout stream are within the compartment.

Archeological, Historical, and Cultural Features:

There are known concerns within the compartment. All proposed management activities have taken these concerns into consideration.

Special Management Designations or Considerations:

A Luce County Lease forty included within the compartment. The Two-Hearted River is a designated natural river; critical dunes and piping plover habitat parallel the Lake Superior shoreline.

Watershed and Fisheries Considerations:

The Two Hearted River borders the northwest corner of this compartment, while the Little Two Hearted River flows through and borders the eastern portion. Both rivers receive a run of steelhead in the spring, while extremely popular run of Coho salmon occurs in the fall on the Two Hearted River. The Two Hearted River is a Natural River. Brook trout are present in the Little Two-Hearted River, but most likely only use this reach of the river during cooler time periods. For stand 31, in accordance with BMPs, a minimum 100-foot, plus 5 feet per 1% increase in slope, riparian management zone is recommended along the Little Two Hearted River.

Wildlife Habitat Considerations:

Compartment 38 lies along the Lake Superior shoreline and is in the Grand Marais Moraine Complex Management Area. The compartment has been nearly entirely burned in the recent Duck Lake fire and has undergone substantial widespread changes in habitat characteristics. The landscape in the compartment is largely set back to earlier successional stages and focus for this compartment is on regeneration of stands.

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 occurrences of commercial deposits of metallic or critical minerals in this area. No active sand/gravel pits are known to exist in the area. There may be some potential for sand (and perhaps limited amounts of gravel) within the compartment on the uplands, but the compartment might be too far from populated areas (commercial markets) for any aggregate resources present to have much economic value beyond limited use by the county road commission, logging companies, or DNR for local road maintenance. No current State mineral leasing activity exists in the area.

Vehicle Access:

Access to the area is good. County Road 423 dead-ends at the mouth of the Two-Hearted River. County Road 412 runs along the southern edge and eastern portion of the compartment. These roads are accessed via County Road 500 and County Road 414. There are some sandy two-tracks that also bisect the compartment.

Survey Needs:

None needed.

Recreational Facilities and Opportunities:

The North Country National Scenic Trail (hiking), snowmobile trail #8 and the Two-Hearted ORV Trail run through the compartment. Two-Hearted State Forest Campground and boat launch is located near the river mouth.

Fire Protection:

Area is in the Two Hearted Zone Dispatch Area. Fires had the potential to become large because of the large acreage of Jack Pine, as witnessed by the Duck Lake Fire in May 2012. 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.

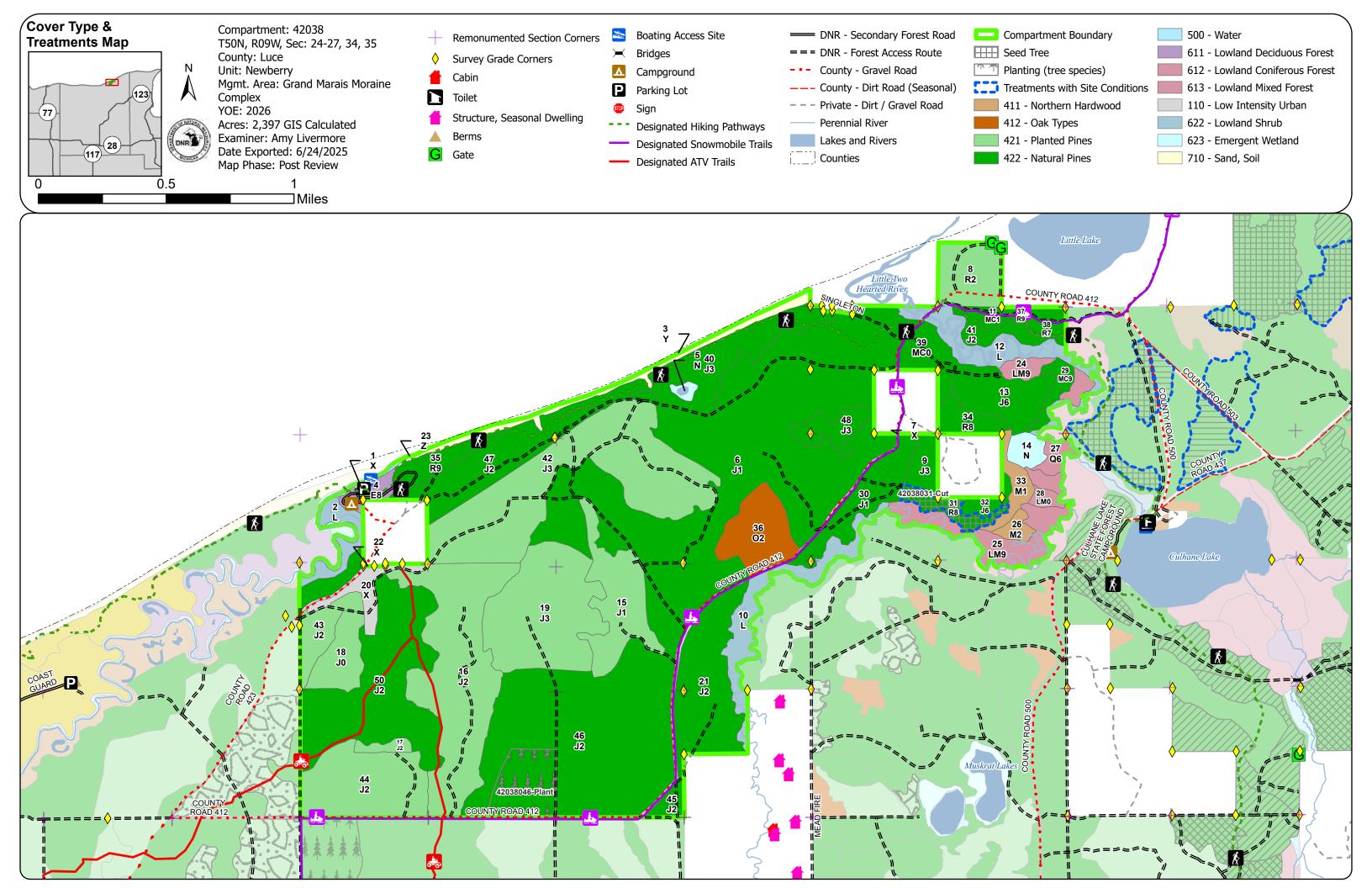
Additional Compartment Information:

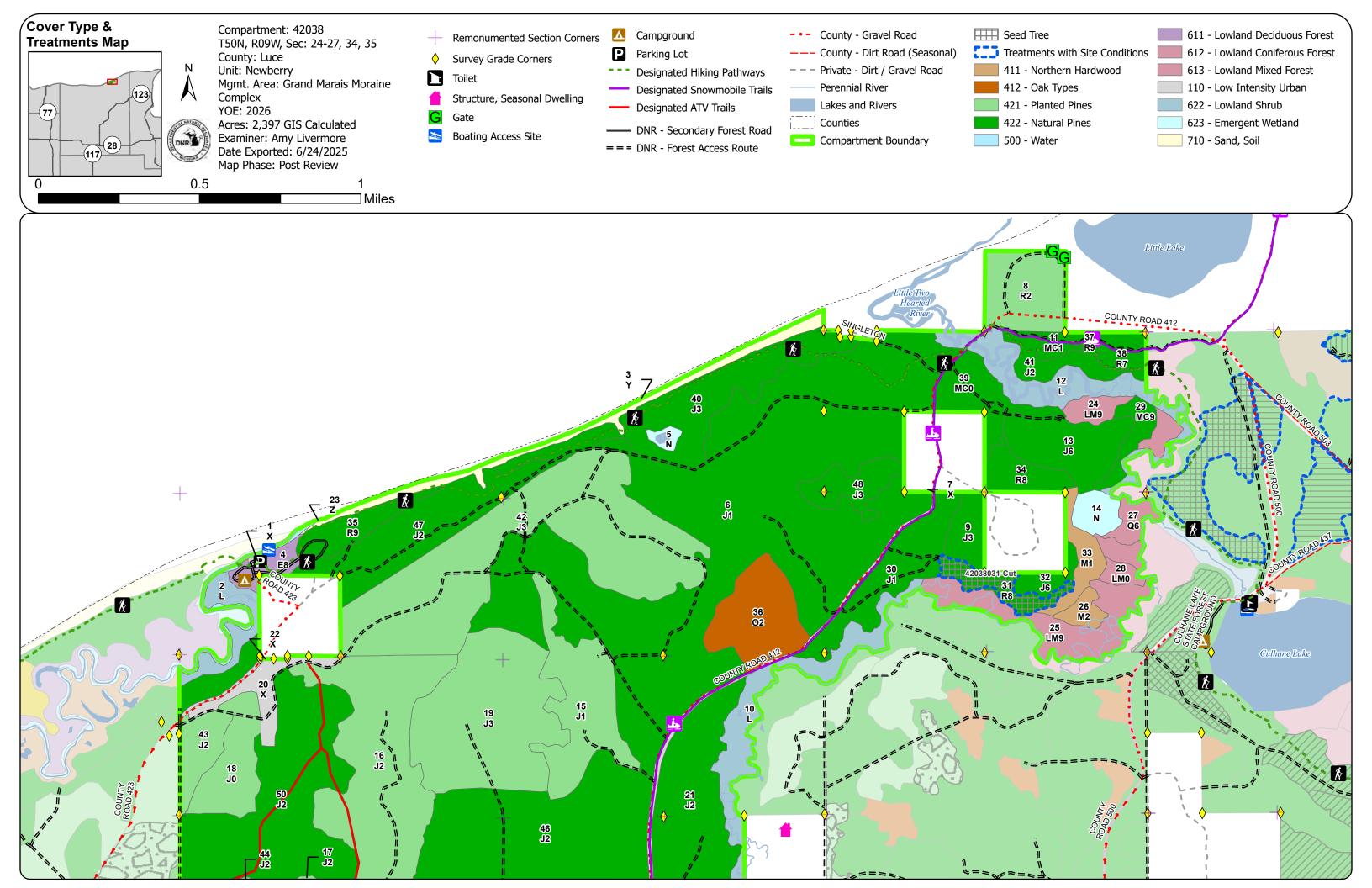
The following reports from the Inventory are attached:

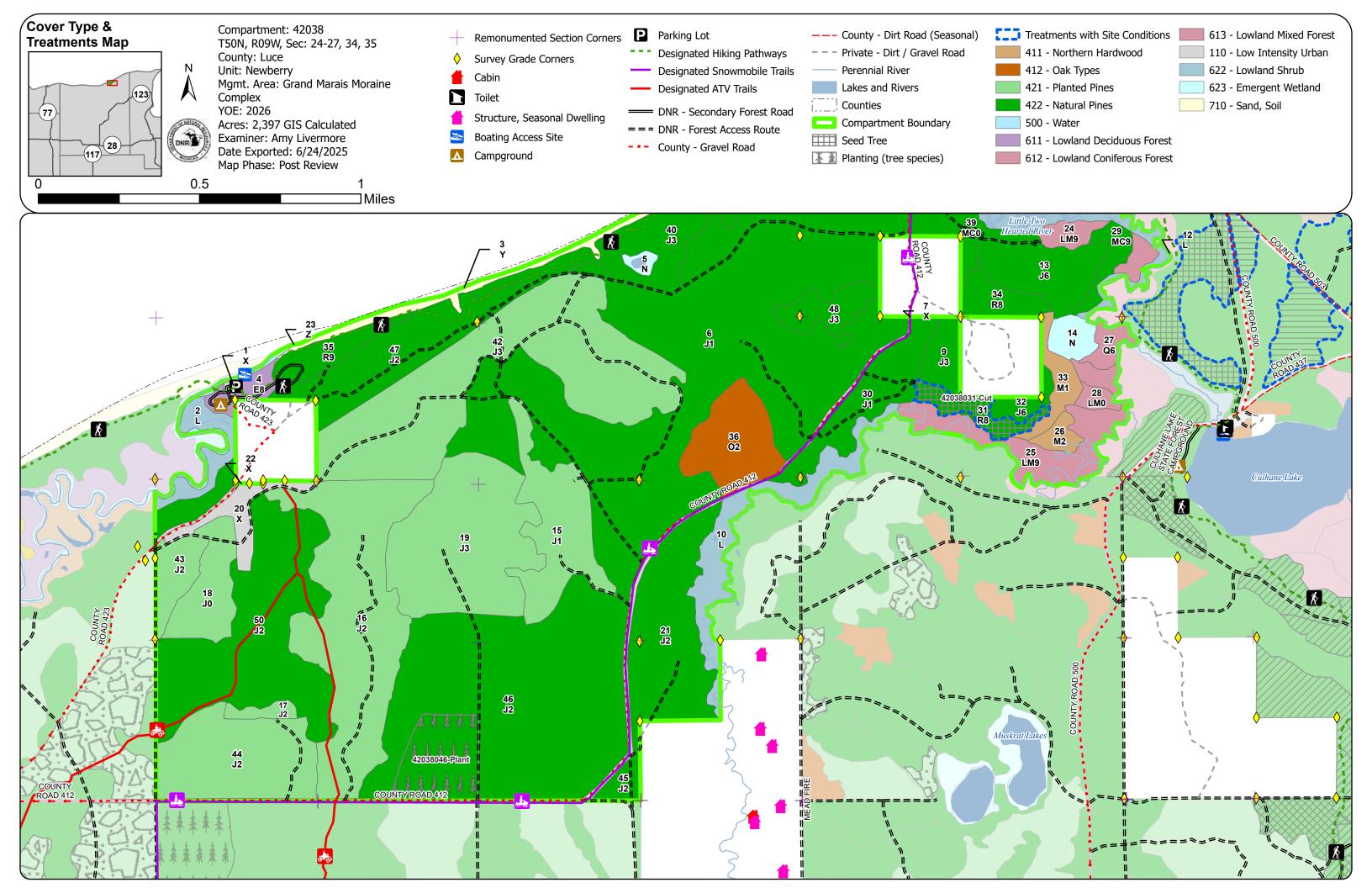
Total Acres by Cover Type and Age Class
Cover Type by Harvest Method
Proposed Treatments – No Limiting Factors
Proposed Treatments – With Limiting Factors
Stand Details (Forested and Nonforested)
Dedicated and Proposed Special Conservation Areas
Site Condition Details

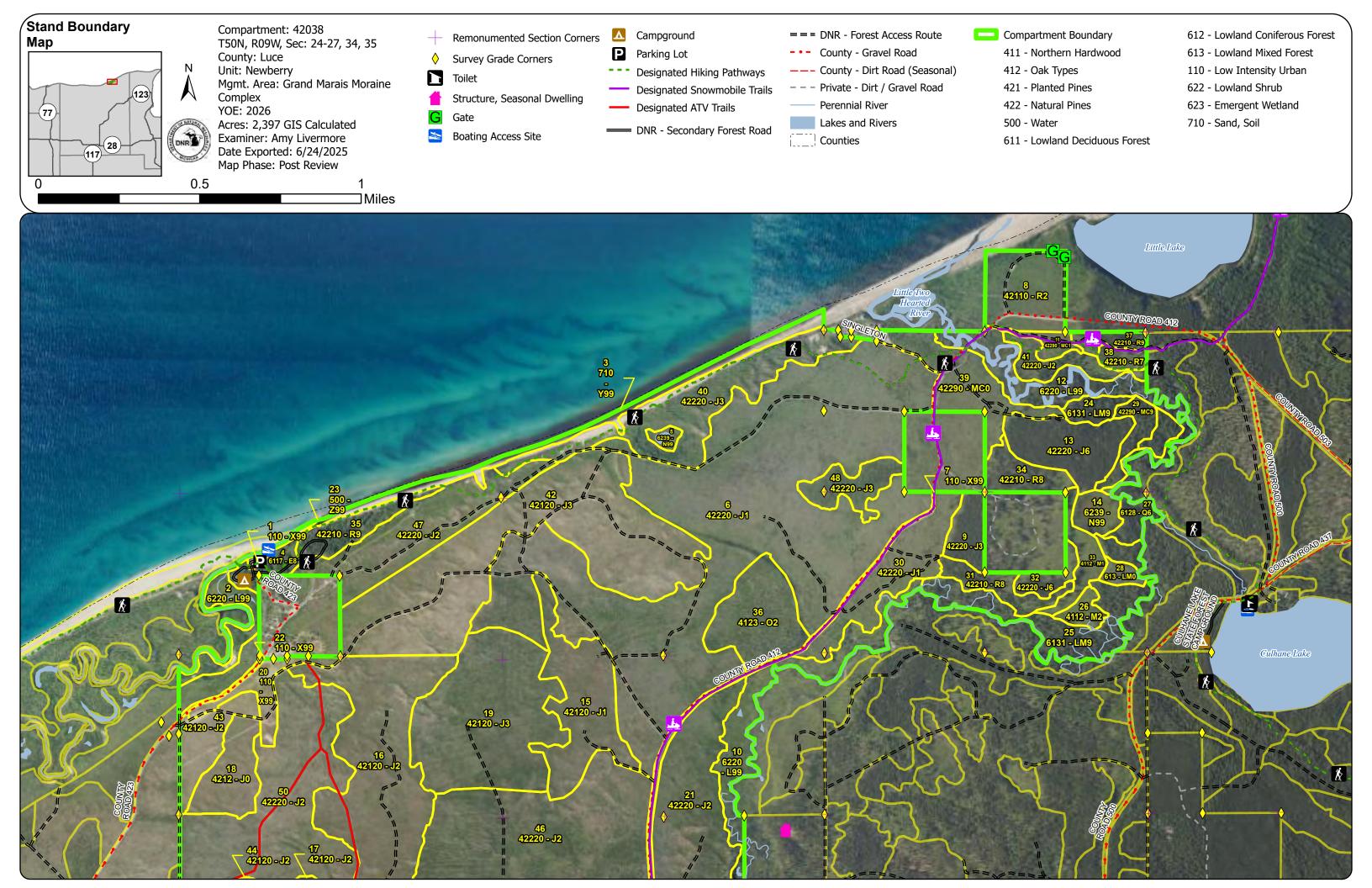
The following information is displayed, where pertinent, on the attached compartment maps:

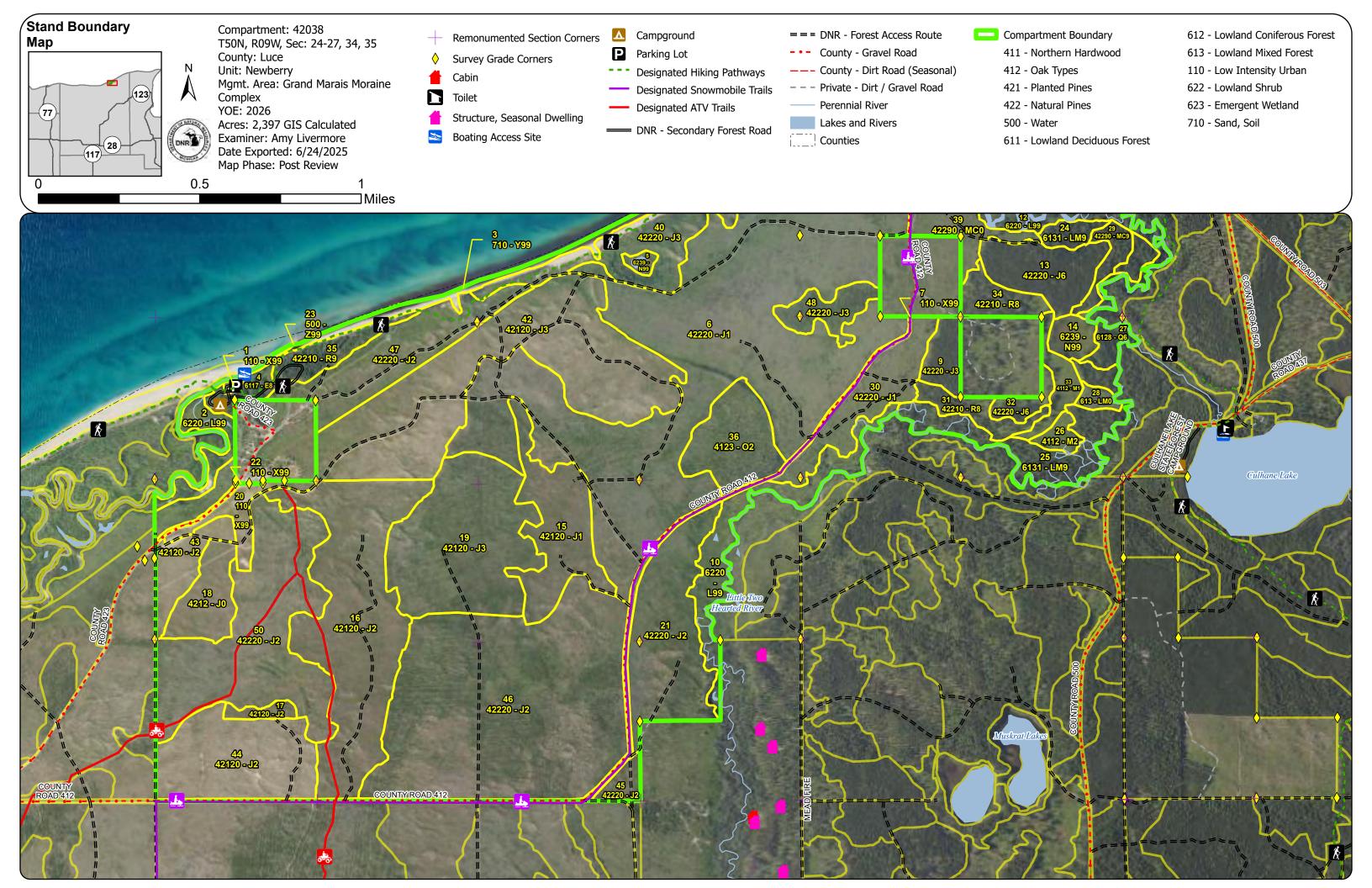
Base feature information, stand boundaries, cover types, and numbers Proposed treatments
Site condition boundaries
Details on the road access system

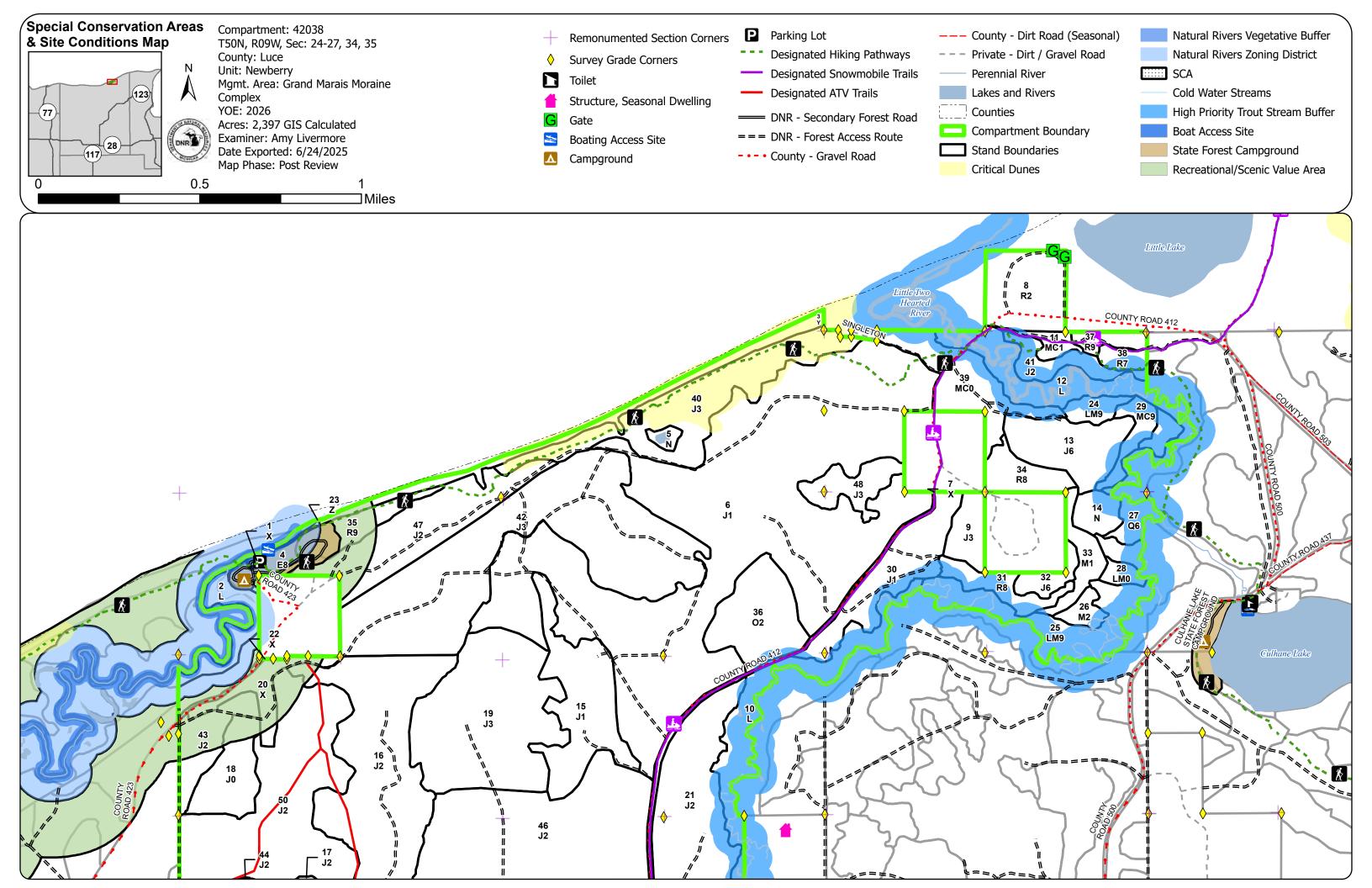


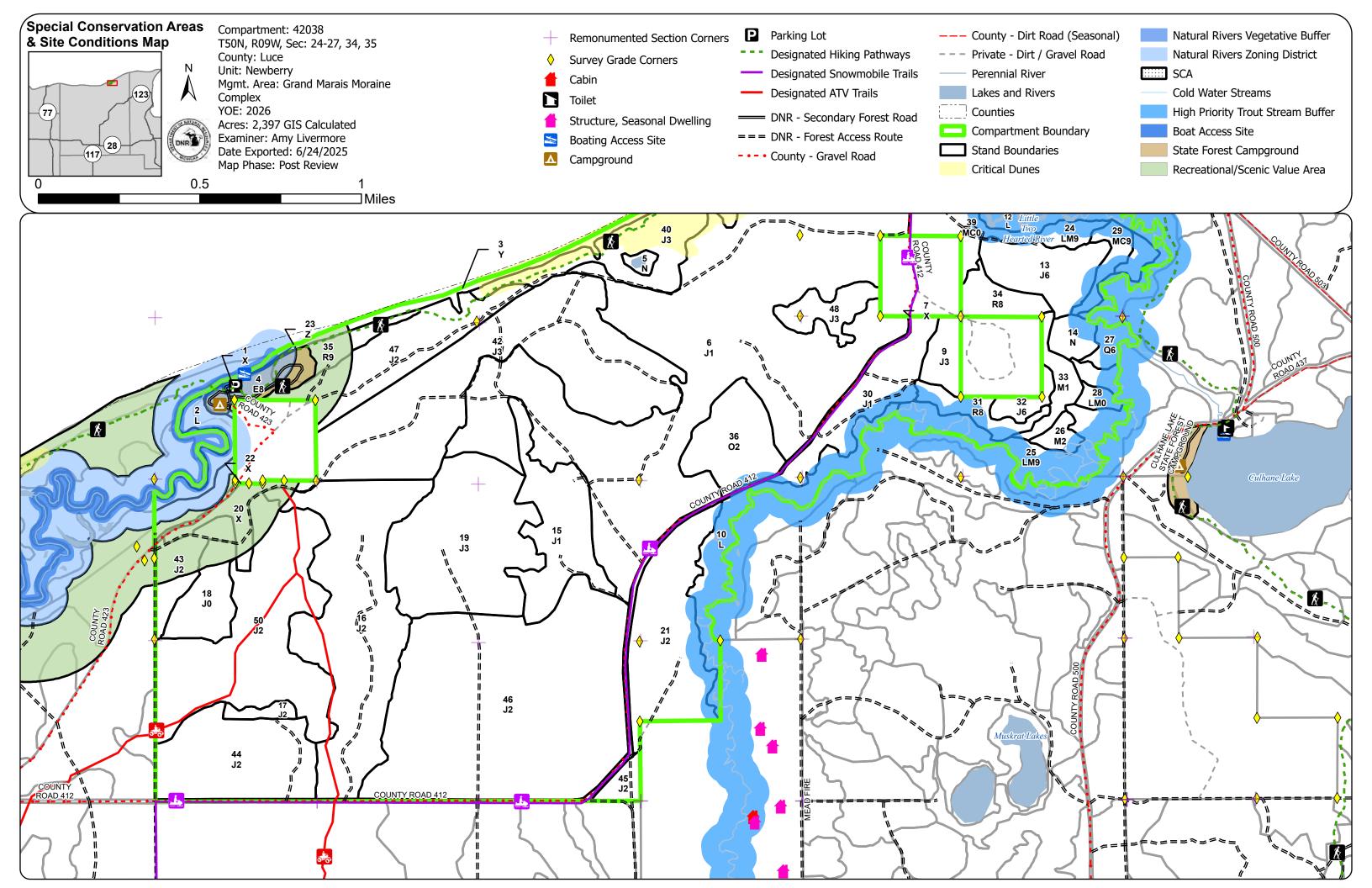












Compartment 38 Year of Entry 2026

Newberry Mgt. Unit

Amy Livermore: Examiner

Age Class

	No.	Ko Karana	3 / 2	2 /	Ser	3 / 12		3/8	\$ / K	R &	\$ 85°	3 /4	70 Z			S. B.	A SE	g Jree	To September 1989
Jack Pine	28	405	1392	0	0	62	0	0	0	0	0	0	0	0	0	0	0	0	1887
Lowland Conifers	0	0	0	0	0	0	0	0	0	0	9	0	0	0	0	0	0	0	9
Lowland Deciduous	0	0	0	0	0	0	0	0	10	0	0	0	0	0	0	0	0	0	10
Lowland Mixed Forest	5	0	0	0	0	0	0	0	0	0	0	63	0	0	0	0	0	0	68
Lowland Shrub	106	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	106
Marsh	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14
Natural Mixed Pines	40	0	7	0	0	0	0	0	0	0	0	11	0	0	0	0	0	0	58
Northern Hardwood	0	0	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21
Oak	0	0	44	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	44
Red Pine	0	0	39	0	0	0	0	0	0	17	0	30	0	0	19	0	0	0	105
Sand, Soil	26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26
Urban	40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	40
Water	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Total	265	405	1503	0	0	62	0	0	10	17	9	104	0	0	19	0	0	0	2394

Report 2 – Treatment Summary

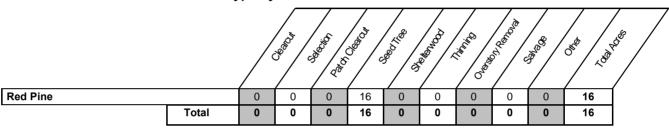
Newberry Mgt. Unit Year of Entry: 2026

Acres of Harvest

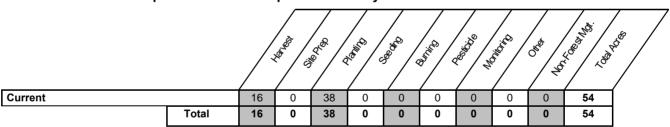
Compartment 38
Total Compartment Acres: 2,397

Commercial Harvest -Harvests with Site Condition - 16 Next Step Harvest - 0 Habitat Cut - 0

Cover Type by Harvest Method



Proposed and Next Step Treatments by Method



s t		Newberry	Mgt. Unit		Repor	1t 3	Treatments		Compartme Year of Enti		
a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut

Approved Treatments:

46	42038046- Plant	38.3	42220 - Natural Jack Pine	2	13	Immatu re	Planting	Planting (tree species)	4222 - Natural Jack Pine	Planting Record	No
Presci		ınt jack pir	ne seedlings if there	is a surplu	S	10		эрсою)	Jack I life	Record	
Specs	<u>.</u>										
Next S Treatn											
	table jack pir	10									
Reger		ie									
Other	ont:										
Comm											
	ondition:	40/04/0	004								
Propo	sed Start Date:	10/01/2	024								
31 4	12038031-Cut	15.54	2210 - Natural Red Pine	8	107	51-80	Harvest	Seed Tree	42210 - Natural Red Pine	Planting Record	No
Presci Specs		0-20 BA.	Keep red and white p	oine in the	red line.						
Next S Treatn											
Accep Reger	table red pine :	e, white pi	ne								
Other Comm		n a 100' b	ouffer along the Little	Two Heart	(built in	to treatme	ent shape).				
Site C	ondition: Eva	luated for	Forest Health								
Propo	sed Start Date:	10/01/2	025								

Total Treatment 53.8 Acreage Proposed:

Report 4 - Site Conditions



Compartment: 38 Year of Entry: 2026

Newberry Mgt. Unit Amy Livermore: Examiner

Availa	ability for	Managemer	nt											
Total	Acres	Acres Avail	Acres		Domina	nt Sit	e Con	dition	s					
Acres	Available	With Condition	Not Available		5B	5C	5F	1A	2F	2G	3D	3E	3J	5D
1796	1713	0	84	Jack Pine					6		75	1	1	
9	0	0	9	Lowland Conifers									3	6
10	0	0	10	Lowland Deciduous							10			
59	0	0	59	Lowland Mixed Forest						10			49	
105	0	0	105	Lowland Shrub				16					89	
14	14	0	0	Marsh										
22	7	11	5	Natural Mixed Pines		11							5	
16	14	0	1	Northern Hardwood									1	
44	44	0	0	Oak										
106	0	47	59	Red Pine	31		16				19	39		
5	0	0	5	Sand, Soil				2			3			
31	20	0	11	Urban				0			1	10		
6	0	0	6	Water				6						
2,224	1,812	58	353	Total Forested Acres	31	11	16	24	6	10	109	50	148	6
	81%	3%	16%	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	3D: Recreational/scenic values	55	3G: Other influence zones - See comments	Unspecified	Unspecified	Unspecified
_	comments: ake Superior shore	eline					
2	Unavailable	3E: Easement/lease, non- military (e.g. Consumers Power red pine, etc.)	40	Unspecified	Unspecified	Unspecified	Unspecified
C	comments: uce County Lease	40					

Report 4 – Site Conditions

Newberry Mgt. Unit

Amy Livermore: Examiner



3	Available	5B: Maintain for regeneration purposes	17	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Live red pine stands	s after salvage cutting complete	d from	Duck Lake Fire.			
4	Unavailable	1A: Federal/State/Local Law	25	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Natural River zone						
5	Unavailable	3E: Easement/lease, non- military (e.g. Consumers Power red pine, etc.)	12	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Two-Hearted River	Airstrip lease					
6	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	152	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
7	Unavailable	3D: Recreational/scenic values	51	2F: Too steep	Unspecified	Unspecified	Unspecified
	Comments:						
8	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	6	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	Unspecified	Unspecified	Unspecified
	Comments: Below bluff along riv	ver corridor.					

Report 4 – Site Conditions

Newberry Mgt. Unit

Amy Livermore: Examiner



9	Unavailable	2F: Too steep	6	Unspecified	Unspecified	Unspecified	Unspecified
C	Comments:						
0	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	10	3J: Water quality/BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
C	Comments:						
1	Unavailable	5D: Unproductive forest land	6	3J: Water quality/BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
C	Comments:						
2	Available	5F: Evaluated for Forest Health Considerations	16	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: 5F: diploidia conce	ns in regeneration					
3	Unavailable	3D: Recreational/scenic values	6	3D: Recreational/scenic values	Unspecified	Unspecified	Unspecified
	Comments: Mouth of the Two H	leart State Forest Campground					
4	Available	5B: Maintain for regeneration purposes	8	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Live red pine stand	s after salvage cutting completed	d from	ı Duck Lake Fire.			

Report 4 – Site Conditions

Newberry Mgt. Unit

Amy Livermore: Examiner



15	Available	5B: Maintain for regeneration purposes	6	Unspecified	Unspecified	Unspecified	Unspecified
C	omments:						
16	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	11	Unspecified	Unspecified	Unspecified	Unspecified
C	omments:						

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
Comments				

	d Level 4 C	Level 4 Cover Type 110 - Low Intensity Urban		Size De	ensity	Acres	Stand Age B	A Range	Managed Si	ite	General Comments										
1	110 - Low I	ntensity Urb	an	Unspe	cifed	1.2			Yes		PRD Boating Access Site. Tahquamenon Falls State Park manages this facility.										
2	6220 - A	lder/Willow		Unspe	ecifed	16.0			No		Lowland along Two Hearted River.										
3	710 - \$	Sand, Soil		Unspe	ecifed	26.4			No		Lake Superior shoreline.										
4		6117 - Lowland Deciduous, Mixed Coniferous		awtimbei	r Mediun	n 10.3	76	51-80	N/A		Burned through from Duck Lake Fire, May 2012. Areas of tag alder along with upland areas of western campground loop.										
	Canopy Species	nopy Species % Cover Size		DBH	l Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	Mouth of two Hearted River State Forest Campground. Facility is										
	Balsam Fir	•••		9			Isam Fir	Medium	Variable	Variable	managed by Tahquamenon Falls State Park.										
	Red Maple	40		12	76	Re	d Maple	Low	Variable	Variable											
	Paper Birch	20		10			ng Alder	Medium	10 - 20 feet	10 - 20 feet											
	White Spruce	20		10					I		1										
	White Pine	2		16																	
5	6239 - Mixed E	6239 - Mixed Emergent Wetland				land Unspecifed		3.4			No										
6	42220 - Nat	20 - Natural Jack Pine) - Natural Jack Pine Sa			42220 - Natural Jack Pine									ine Sapling Poor 441.3 13 Immature N/A					
O						Sapling	Poor	441.3	13 I	mmature	N/A										
0	Canopy Species		Size Class		Poor Age		13 loopy Species	mmature Density	N/A Avg. Height	Size	1 01. Regen survey in 2015 by summer students. Variable regen - low										
-	Canopy Species Red Pine					Sub-Ca															
		% Cover	Size Class	DBH		Sub-Ca	nopy Species	Density	Avg. Height	Size	01. Regen survey in 2015 by summer students. Variable regen - low to moderately stocked. Mainly jack pine with a few red pine, oak,										
	Red Pine	% Cover	Size Class	DB H	I Age	Sub-Ca	nopy Species ed Pine	Density Low	Avg. Height < 5 feet	Size < 5 feet	01. Regen survey in 2015 by summer students. Variable regen - low to moderately stocked. Mainly jack pine with a few red pine, oak,										
	Red Pine Jack Pine	% Cover 3 90	Size Class Log Log	DBH 2 2	I Age	Sub-Ca	nopy Species ed Pine	Density Low	Avg. Height < 5 feet	Size < 5 feet	01. Regen survey in 2015 by summer students. Variable regen - low to moderately stocked. Mainly jack pine with a few red pine, oak,										
7	Red Pine Jack Pine Paper Birch	% Cover 3 90 5 2	Size Class Log Log Log Log Log	DBH 2 2 3	1 Age	Sub-Ca	nopy Species ed Pine	Density Low	Avg. Height < 5 feet	Size < 5 feet < 5 feet	01. Regen survey in 2015 by summer students. Variable regen - low to moderately stocked. Mainly jack pine with a few red pine, oak,										
	Red Pine Jack Pine Paper Birch Red Oak	% Cover	Size Class Log Log Log Log an	2 2 3 3	13 13 ecifed	Sub-Ca Ro Ja	nopy Species ed Pine ck Pine	Density Low	Avg. Height < 5 feet < 5 feet	Size < 5 feet < 5 feet	01. Regen survey in 2015 by summer students. Variable regen - low to moderately stocked. Mainly jack pine with a few red pine, oak, aspen and red maple. Averages 396 trees/acre. County Road 412. Luce County Lease Land. Burned by Duck Lake Fire, May 2012.										
7	Red Pine Jack Pine Paper Birch Red Oak 110 - Low In	% Cover 3 90 5 2 Intensity Urb	Size Class Log Log Log Log an	DBH 2 2 3 3 Unspe	13 13 ecifed	Sub-Ca Re Ja 19.7	nopy Species ed Pine ck Pine	Low Medium	Avg. Height < 5 feet < 5 feet Yes	Size < 5 feet < 5 feet	O1. Regen survey in 2015 by summer students. Variable regen - low to moderately stocked. Mainly jack pine with a few red pine, oak, aspen and red maple. Averages 396 trees/acre. County Road 412. Luce County Lease Land. Burned by Duck Lake Fire, May 2012. Salvaged and planted to red pine after fire. Regen survey in 2015 by										
7	Red Pine Jack Pine Paper Birch Red Oak 110 - Low In	% Cover 3 90 5 2 Intensity Urb	Size Class Log Log Log Log an	DBH 2 2 3 3 Unspe	1 Age 13 13 ccifed	Sub-Ca Re Ja 19.7	nopy Species ed Pine ck Pine	Low Medium	Avg. Height < 5 feet < 5 feet Yes	Size < 5 feet < 5 feet	O1. Regen survey in 2015 by summer students. Variable regen - low to moderately stocked. Mainly jack pine with a few red pine, oak, aspen and red maple. Averages 396 trees/acre. County Road 412. Luce County Lease Land. Burned by Duck Lake Fire, May 2012. Salvaged and planted to red pine after fire. Regen survey in 2015 by										
7	Red Pine Jack Pine Paper Birch Red Oak 110 - Low In 42110 - Pla Canopy Species	% Cover 3 90 5 2 Intensity Urb MCOver	Size Class Log Log Log Log an	DBH 2 2 3 3 Unspe	1 Age 13 13 13 Page 14 Age 14 Age	Sub-Ca Re Ja 19.7	nopy Species ed Pine ck Pine	Low Medium	Avg. Height < 5 feet < 5 feet Yes	Size < 5 feet < 5 feet	01. Regen survey in 2015 by summer students. Variable regen - low to moderately stocked. Mainly jack pine with a few red pine, oak, aspen and red maple. Averages 396 trees/acre. County Road 412. Luce County Lease Land. Burned by Duck Lake Fire, May 2012. Salvaged and planted to red pine after fire. Regen survey in 2015 by summer students. Average 365 trees/acre of red pine. Scattered birch										
7	Red Pine Jack Pine Paper Birch Red Oak 110 - Low In 42110 - Pla Canopy Species Red Pine	% Cover 90 5 2 Intensity Urb Market Red Pi Cover 93	Size Class Log Log Log Log an Size Class Log	DBH 2 2 3 3 Unspe	1 Age 13 13 13 Page 14 Age 14 Age	Sub-Ca Re Ja 19.7	nopy Species ed Pine ck Pine	Low Medium	Avg. Height < 5 feet < 5 feet Yes	Size < 5 feet < 5 feet	01. Regen survey in 2015 by summer students. Variable regen - low to moderately stocked. Mainly jack pine with a few red pine, oak, aspen and red maple. Averages 396 trees/acre. County Road 412. Luce County Lease Land. Burned by Duck Lake Fire, May 2012. Salvaged and planted to red pine after fire. Regen survey in 2015 by summer students. Average 365 trees/acre of red pine. Scattered bircl										
7	Red Pine Jack Pine Paper Birch Red Oak 110 - Low In 42110 - Pla Canopy Species Red Pine Paper Birch	% Cover	Log	2	13 acifed Medium 1 Age 13	Sub-Ca Re Ja 19.7	nopy Species ed Pine ck Pine	Low Medium	Avg. Height < 5 feet < 5 feet Yes	Size < 5 feet < 5 feet	O1. Regen survey in 2015 by summer students. Variable regen - low to moderately stocked. Mainly jack pine with a few red pine, oak, aspen and red maple. Averages 396 trees/acre. County Road 412. Luce County Lease Land. Burned by Duck Lake Fire, May 2012. Salvaged and planted to red pine after fire. Regen survey in 2015 by summer students. Average 365 trees/acre of red pine. Scattered birch and red maple throughout stand. Retention area for salvage sale. Somewhat burned through by Duck										
7 8	Red Pine Jack Pine Paper Birch Red Oak 110 - Low II 42110 - Pla Canopy Species Red Pine Paper Birch Jack Pine	% Cover 3 90 5 2 Intensity Urb **Cover** 93 2 5 ural Jack Pi	Log	DBH 2 2 3 3 3 Unspection Sapling N 2 2 2 2 Sapling	13 acifed Medium 1 Age 13	9.3 Sub-Ca	nopy Species ed Pine ck Pine	Density Low Medium mmature	Avg. Height < 5 feet < 5 feet Yes	Size < 5 feet < 5 feet	O1. Regen survey in 2015 by summer students. Variable regen - low to moderately stocked. Mainly jack pine with a few red pine, oak, aspen and red maple. Averages 396 trees/acre. County Road 412. Luce County Lease Land. Burned by Duck Lake Fire, May 2012. Salvaged and planted to red pine after fire. Regen survey in 2015 by summer students. Average 365 trees/acre of red pine. Scattered birch and red maple throughout stand.										
7 8	Red Pine Jack Pine Paper Birch Red Oak 110 - Low In 42110 - Pla Canopy Species Red Pine Paper Birch Jack Pine 42220 - Nat	% Cover 3 90 5 2 Intensity Urb **Cover** 93 2 5 ural Jack Pi	Log	DBH 2 2 3 3 3 Unspection Sapling N 2 2 2 2 Sapling	1 Age 13 13 14 15 15 15 15 15 15 15	9.3 Sub-Ca	nopy Species ed Pine ck Pine	Density Low Medium mmature	Avg. Height < 5 feet < 5 feet Yes	Size < 5 feet < 5 feet	O1. Regen survey in 2015 by summer students. Variable regen - low to moderately stocked. Mainly jack pine with a few red pine, oak, aspen and red maple. Averages 396 trees/acre. County Road 412. Luce County Lease Land. Burned by Duck Lake Fire, May 2012. Salvaged and planted to red pine after fire. Regen survey in 2015 by summer students. Average 365 trees/acre of red pine. Scattered birch and red maple throughout stand.										
7 8	Red Pine Jack Pine Paper Birch Red Oak 110 - Low In 42110 - Pla Canopy Species Red Pine Paper Birch Jack Pine 42220 - Nat Canopy Species	% Cover 3 90 5 2 Intensity Urb M Cover 93 2 5 ural Jack Pi % Cover	Log	DBH 2 2 3 3 Unspection Sapling N 2 2 2 2 Sapling DBH	1 Age 13 13 14 15 15 15 15 15 15 15	9.3 Sub-Ca	nopy Species ed Pine ck Pine	Density Low Medium mmature	Avg. Height < 5 feet < 5 feet Yes	Size < 5 feet < 5 feet	O1. Regen survey in 2015 by summer students. Variable regen - low to moderately stocked. Mainly jack pine with a few red pine, oak, aspen and red maple. Averages 396 trees/acre. County Road 412. Luce County Lease Land. Burned by Duck Lake Fire, May 2012. Salvaged and planted to red pine after fire. Regen survey in 2015 by summer students. Average 365 trees/acre of red pine. Scattered birch and red maple throughout stand.										
7 8	Red Pine Jack Pine Paper Birch Red Oak 110 - Low II 42110 - Pla Canopy Species Red Pine Paper Birch Jack Pine 42220 - Nat Canopy Species Red Pine	% Cover	Log	2	1 Age 13 13 14 15 15 15 15 15 15 15	9.3 Sub-Ca	nopy Species ed Pine ck Pine	Density Low Medium mmature	Avg. Height < 5 feet < 5 feet Yes	Size < 5 feet < 5 feet	to moderately stocked. Mainly jack pine with a few red pine, oak, aspen and red maple. Averages 396 trees/acre. County Road 412. Luce County Lease Land. Burned by Duck Lake Fire, May 2012. Salvaged and planted to red pine after fire. Regen survey in 2015 by summer students. Average 365 trees/acre of red pine. Scattered birch and red maple throughout stand. Retention area for salvage sale. Somewhat burned through by Duck										

Stand		Level 4 Cover Type 42290 - Natural Mixed Pine	Size De	nsity	Acres	Stand Age B	A Range	Managed Sit	e	General Comments					
11	42290 - Nati	ural Mixed F	Pine	Sapling	Poor	6.6	12	mmature	N/A		Burned by Duck Lake Fire, May 2012. Salvage cut 2012, DLS#3, 42-				
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	026-12-01. Regen survey in 2015 by summer students. Variable rege densities established of jack pine and red maple (400 trees/acre).				
	Red Maple	10	Log	2		Ja	ck Pine	Low	< 5 feet	< 5 feet	deficition detablished of just pille and real maple (100 troop/asie).				
	Jack Pine	35	Log	2		Re	d Maple	Low	< 5 feet	< 5 feet					
	Red Pine	55	Log	2	12										
12	6220 - A	lder/Willow		Unspe	cifed	44.3			No		Little Two Hearted River corridor. Burned by Duck Lake Fire, May 2012.				
13	42220 - Nat	tural Jack P	ine	Poletimbe	er Well	38.7	49	51-80	N/A		Excluded from salvage sale. Some underburning from Duck Lake Fire				
	Canopy Species	% Cover	Size Class	DBH	Age						May 2012.				
	Red Pine	10		10											
	White Pine	5		10											
	Jack Pine	85	Seedling	7	49										
14	6239 - Mixed E	mergent W	etland	Unspec	cifed	10.9			No						
15	42120 - Pla	nted Jack P	ine	Sapling	Poor	60.7	10	mmature	N/A		Duck Lake fire May 2012. Salvage cut 2012 DLS #4 sale #42-027-12				
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	01. Planted May 2013, no trenches, 5 x 8 spacing, approx 1200				
	Jack Pine	100	Log	2	10	Ja	ck Pine	Low	< 5 feet	< 5 feet	trees/acre. FTP# 42-825. Failed regen check in fall 2013/spring 20 Was planned to replant spring of 2014, but ran out of trees.				
											Regen survey summer 2017: 660 Trees per acre.				
16	42120 - Pla	nted Jack P	ine	Sapling M	1edium	153.8	11	mmature	N/A		Duck Lake fire May 2012. Salvage cut 2012 DLS #4 sale #42-027-12				
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	01. Planted May 2013, no trenches, 5 x 8 spacing, approx 1200 trees/acre. FTP# 42-826. Failed regen check fall 2013/spring 2014.				
	Jack Pine	100	Log	2	11	Ja	ck Pine	Medium	< 5 feet	< 5 feet	Replanted May 2014, 4 x 10 spacing, KW funded. Passed regeneration check 5/23/2016 - 622 trees/acre (545 planted, 40 volunteers).				
17	42120 - Pla	nted Jack P	ine	Sapling M	1edium	6.0	12 I	mmature	N/A		Duck Lake fire May 2012. Salvage cut 2012 DLS #4 sale #42-027-12 01. Planted May 2013, no trenches, 5 x 8 spacing, approx 1200				
	Canopy Species	% Cover	Size Class	DBH	Age						trees/acre. FTP# 42-827. Failed regen check fall 2013/spring 2014.				
	Jack Pine	100	Log	2	12						Replanted May 2014, 4 x 10 spacing, from each end. Middle may be sparser. Quick plots in 2016 averaged 700 trees/acre. Regen survey summer 2017: 430 Trees per acre.				
18	4212 - Plar	nted Jack Pi	ine	Unspec	cifed	28.4	1				Duck Lake fire May 2012. Salvage cut 2012 DLS #4 sale #42-027-12				
						Sub-Ca	nopy Species	Density	Avg. Height	Size	o1. Planted May 2013, no trenches, 5 x 8 spacing, approx 1200 trees/acre. FTP# 42-827. Failed regen survey in fall 2013. Planned or				
						Ja	ck Pine	Low	, , ,	5 - 10 feet	trees/acre. FTP# 42-827. Failed regen survey in fall 2013. Planned replanting in spring 2014, but ran out of trees. Never replanted, but				
													survival is better than originally thought. Average 550 trees/acre in 2015 regen survey by summer students. Regen check summer 2017: 470 trees/acre.		

	Ne	wberry Mg	t. Unit				Kep		anus		Year of Entry: 2026
Stanc	Level 4 C	over Type		Size De	nsity	Acres	Stand Age E	BA Range	Managed Sit	е	General Comments
19	42120 - Plar	nted Jack P	ine	Sapling	Well	117.2	8	Immature	N/A		Very dense with some more open areas.
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	Duck Lake Fire May 2012. Salvage cut 2012 DLS #4, sale #42-027-12
	Jack Pine	80	Log	2	8	Já	ack Pine	Medium	< 5 feet	< 5 feet	01. Regen survey in 2015 by summer students. Fully stocked overall.
	Red Pine	5	Log	2		R	ed Pine	Medium	< 5 feet	< 5 feet	Averages 2480 trees/acre of red pine and jack pine.
	Red Oak	15	Log	2							
20	110 - Low Ir	ntensity Urb	an	Unspe	cifed	17.4			Yes		Old airstrip
21	42220 - Nat	ural Jack Pi	ine	Sapling N	/ledium	83.1	12	Immature	N/A		Good regen in most of the stand. The step hillsides have little regen.
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	Lots of slash remaining.
	Jack Pine	100	Log	2	12	Ja	ack Pine	Low	< 5 feet	< 5 feet	Duck Lake fire May 2012. Salvage cut 2012 DLS #3, sale #42-026-12
						Re	ed Maple	Low	Variable	Variable	01. Regen survey in 2015 by summer students. Average 850 trees/acre of jack pine. Variable densities.
22	110 - Low Ir	ntensity Urb	an	Unspe	cifed	1.9			Yes		County Road 423.
23	500 -	- Water		Unspe	cifed	6.4			No		Two Hearted River.
24	6131 - Hemlock, B	White Pine,	, Maple,	Sawtimb	er Well	14.2	106	81-110	N/A		Lower ground along Little Two Hearted River. Some burn through fror Duck Lake Fire, May 2012. Mostly floodplain.
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	
	Red Pine	2		16		Wh	ite Spruce	Medium	Variable	Variable	
	White Pine	25		14		Re	ed Maple	Medium	Variable	Variable	
	Red Maple	20		10		Ва	alsam Fir	Medium	Variable	Variable	
	Paper Birch	30		10	106						
	White Spruce	15		10							
No	rthern White Cedar	8		10							
25	6131 - Hemlock, B	White Pine, irch	, Maple,	Sawtimb	er Well	48.5	101	51-80	N/A		Upland/lowland transition along Little Two Hearted River. Burned through by Duck Lake Fire, May 2012. Did not burn hot through this
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	stand, mostly underburn.
	White Pine	35		15		Ва	alsam Fir	High	Variable	Variable	
No	rthern White Cedar	2	Seedling	8							
	Red Pine	8		16							
	Red Maple	53	Seedling	9	101						
	Paper Birch	2	Seedling	6							
26	4112 - Maple, Beed					7.1	12	Immature	N/A		Duck Lake fire May 2012. Salvage cut 2012 DLS #3, sale #42-026-12- 01. Regen survey in 2015 by summer students. Red maple regen is
	Canopy Species		Size Class		Age						acceptable regen in this stand. Averages 1650 trees/acre of red maple
	Red Pine	10	Loa	2							

10

85

5

Log

Log

Log

1

2

12

Red Pine

Red Maple

Jack Pine

Compartment: 38

Stand	Level 4 Cover Type			Size D	ensity	Acres	Stand Age	BA Range	Managed Si	ite	General Comments				
27	6128 - Lowland Coniferous, Mixed Deciduous		, Mixed	d Poletimber Well		8.6	91	51-80	N/A		Lowland along Little Two Hearted River. Burned by Duck Lake Fire, May 2012.				
	Canopy Species	% Cover	Size Class	DB	H Age										
	Black Spruce	15	Seedling	7											
No	orthern White Cedar	40		11	91										
	Balsam Fir	10	Seedling	6											
	Red Maple	25	Seedling	8											
	Paper Birch	10	Seedling	7											
28	613 - Lowlan	d Mixed Fo	orest	Unspecifed		5.0	1	Unspecified			Low ground bordering Little Two Hearted River. Burned by Duck Lake				
						Sub-Ca	nopy Species	Density	Avg. Height	Size	Fire, May 2012. Previously mix of maple, birch and white pine. Regen survey in 2015 by summer students. Red maple white spruce and				
						Wh	ite Spruce	Low	5 - 10 feet	5 - 10 feet	birch regenerating. Lots of pole sized snags.				
						Re	ed Maple	High	< 5 feet	< 5 feet					
						Pa	per Birch	Medium	< 5 feet	< 5 feet					
29	42290 - Natural M		al Mixed Pine		Sawtimber Well		109	111-140	N/A		Upland mixed pine bordering Little Two Hearted River. Some underburn from Duck Lake Fire, May 2012. Occassional oak, white				
	Canopy Species	% Cover	Size Class		H Age		nopy Species	Density	Avg. Height	Size	birch, red maple and spruce.				
	Red Pine	58		15		W	hite Pine	Medium	Variable	Variable					
	White Pine	40		15		Ba	alsam Fir	Low	Variable	Variable					
	Jack Pine	2	Seedling	8		Re	ed Maple	Low	>20 feet	>20 feet					
						Pa	per Birch	Low	>20 feet	>20 feet					
30	42220 - Nat	ural Jack P	ine	Sapling Poor		43.9	13	Immature	N/A		Duck Lake fire May 2012. Salvage cut 2012 DLS #3, sale #42-026-12 01. Regen survey in 2015 by summer students. Variable regen				
	Canopy Species		Size Class		H Age						densities established. Averages 283 trees/acre.				
	Jack Pine	80	Log	2	13										
	Red Pine	5	Log	2											
	Red Oak	4	Log	2											
	Paper Birch	3	Log	2											
	Bigtooth Aspen	8	Log	3											
31	42210 - Na	42210 - Natural Red Pine		Sawtimbe	awtimber Medium		awtimber Medium		wtimber Medium		107	51-80	N/A		Burned through from Duck Lake Fire May 2012. Salvage cut 2012 DLS #3, sale #42-026-12-01. Western portion was mostly
	Canopy Species		Size Class		H Age		nopy Species		Avg. Height	Size	underburned and thinned by salvage cut (70 BA residual), while				
	White Pine	10		14			ed Pine	Low	>20 feet	>20 feet	eastern portion burned heavier and had more cut (30 BA residual).				
	Red Pine 90		15	107		hite Pine	Low	Variable	Variable	Combined into one stand. Decent red pine regeneration in more open areas of the stand.					
					Ja	Jack Pine		>20 feet	>20 feet	Decent red pine regeneration in more open areas of the stand.					
32	42220 - Nat	ural Jack P	rine	Poletimber Well		9.0	47	1-50	N/A		Burned through from Duck Lake Fire, May 2012. Part of salvage sale 2012 DLS #3, sale #42-026-12-01, but not really cut through due to				
	Canopy Species	% Cover	Size Class	DB	H Age						smaller diameter.				
	Red Pine	3	Seedling	8											
	White Pine	2	Seedling	9											
	Jack Pine	95	Seedling	6	47										

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Stand	d Level 4 C	over Type		Size De	nsity	Acres	Stand Age E	BA Range	Managed Si	te	General Comments	
33	4112 - Maple, Beed	4112 - Maple, Beech, Cherry Association				14.4	13	Immature	N/A		Duck Lake Fire May 2012. Salvage cut 2012 DLS #3, sale #42-026-12	
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	01. Regen survey in 2015 by summer students. Variable species and densities. Mainly red maple, averaging 1000 trees/acre; thicker regen	
	Jack Pine	3	Log	1		Re	ed Maple	Medium	< 5 feet	< 5 feet	on edges. North side has very good jp regen and some rp all 1" 10'+	
	Red Maple	90	Log	1	13	Ja	ick Pine	Trace			tall	
	Red Pine	7	Log	1								
34	42210 - Natural Red Pine Sawtimber Mediu					n 17.3	89	51-80	N/A		Burned through from Duck Lake Fire, May 2012. Partially salvage cut 2012 DLS #3, sale #42-026-12-01. RP with scattered small JP	
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	pole/sap patches.Red pine saplings regenerating in patches.	
	Jack Pine	20	Seedling	7		Re	ed Pine	Low	< 5 feet	< 5 feet		
	Red Pine	80		12	89						_	
35	42210 - Na	Sawtimb	er Well	19.3	19.3 135 81-110		N/A		Burned through by Duck Lake Fire, May 2012. Partially salvage cut			
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	2012 Duck Lake Campgrounds, sale #42-040-12-02. Mostly underburned. Most balsam understory burned. Occassional oak within	
	White Pine	5		16		Ва	lsam Fir	Low	Variable	Variable	stand.	
	Paper Birch	5	Seedling	8		Re	ed Maple	Low	Variable	Variable	Mouth of Two Hoorted Diver state forget compareupd. Facility is	
	Red Pine	90		16	135	Par	per Birch	Low	Variable	Variable	Mouth-of-Two-Hearted River state forest campground. Facility is managed by Tahquamenon Falls State Park. Small drainage runs through stand	
36	4123 - Red Oak Sa			Sapling N	/ledium	44.2	44.2 12 Immatu		e N/A		Duck Lake fire May 2012. Salvage cut 2012 DLS #4, sale #42-027-12	
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	o1. Some nice oak stump sprouts as well as seedlings coming back, along with birch, maple and jack pine. Regen survey in 2015 by	
	Red Oak	85	Log	3	12	Ja	ick Pine	Medium	< 5 feet	< 5 feet	summer students. Averages 1725 trees/acre of oak, jack pine and	
	Red Maple	3	Log	2							aspen. Scattered red maple and birch within stand.	
	Paper Birch	2	Log	2								
	Jack Pine	5	Log	2								
	Quaking Aspen	5	Log	2								
37	42210 - Natural Red Pine Sawtimber Well				er Well	7.9	109	81-110	N/A		Burned from Duck Lake Fire, May 2012. Retention from salvage cuts.	
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	Some underburned from fire.Decent red pine regen	
	Red Pine	95		12	109	Wł	nite Pine	Low	Variable	Variable		
	White Pine	5		12		Ja	ick Pine	Low	>20 feet	>20 feet		
						Re	ed Pine	Medium	Variable	Variable		
38	42210 - Na	42210 - Natural Red Pine Sawtimber Pool					109	1-50	N/A		Burned from Duck Lake Fire, May 2012. Salvage cut in 2012, DLS #3,	
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	42-026-12-01. Residual BA a bit thicker to the west. Regen survey in 2015 by summer students revealed approx. 200 trees/acre of jack	
	Red Pine	95		14	109	Re	ed Pine	High	5 - 10 feet	5 - 10 feet	pine, as well as 300 trees/acre birch, regen under residual RP. Re-	
	White Pine	5		14		Re	ed Maple	Low	< 5 feet	< 5 feet	evaluate at a later date.	
	·		· · · · · · · · · · · · · · · · · · ·					1	_			

Medium

< 5 feet

< 5 feet

Paper Birch

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No	wberry wg	t. Omit				1.00				Year of Entry: 2026		
Level 4 Cover Type Size Densit					Acres Stand Age BA Range Managed Site				te	General Comments		
42290 - Nati		40.1	2	Immature			Young jack/ red pine regenerating after Duck Lake fire. Some log					
	ſ						Density	Avg. Height	Size	sized red pine on the SE edge of the stand that survived the fire.		
					Quaking	Aspen	Low	< 5 feet	< 5 feet	Duck Lake fire May 2012. Salvage cut 2012 DLS #3, sale #42-026-12-		
					Paper	Birch	Low	Variable	Variable	01 & DLS #4, sale #42-027-12-01. Regen survey in 2015 by summer		
					Red I	Pine	Medium	5 - 10 feet	5 - 10 feet	students. Mix of species (red pine, jack pine, aspen, red maple and birch) and densities. Averages 470 trees/acre.		
					Jack Pine		Medium	Medium 5 - 10 feet	5 - 10 feet	bilding and densities. Averages 470 freestable.		
42220 - Nat	Sapling We	II	71.4	12	Immature			Duck Lake fire May 2012. Not part of salvage sales. Includes steep				
Canopy Species	% Cover	Size Class	DBH Age	e Sub-Canopy Species	Density	Avg. Height	Size	hillsides. Regen survey in 2015 by summer students. Variable densities and species (red pine, jack pine, oak, red maple, birch and				
Red Oak	2	Log	2		Red I	Pine	Medium	< 5 feet	< 5 feet	cherry). Averages 1200 trees/acre of all species combined.		
Red Maple 5 Log 2 Paper Birch 10 Log 2 Red Pine 3 Log 2		Log	2		Red	Oak	Low	Variable	Variable			
			Jack	Pine	Medium	Variable	Variable					
			Red Maple		Medium	Variable	Variable					
Jack Pine	80	Log	2 12		Paper	Birch	Low	Variable	Variable			
42220 - Natural Jack Pine			Sapling Medi	ım	15.8	12	Immature	N/A		Upland to transition ground. Regen survey in 2015 by summer		
Canopy Species	% Cover	Size Class	DBH Age	Э	Sub-Canor	y Species	Density	Avg. Height	Size	students. Variable regen densities established; mainly birch with some jack pine. Acceptable regen due to location along river corridor. More		
Red Pine	5	Log	2		Paper	Birch	Medium	< 5 feet	< 5 feet	jack pine may seed in.		
Red Maple	5	Log	2		Jack	Pine	Low	< 5 feet	< 5 feet			
Paper Birch	10	Log	2									
Jack Pine	80	Log	2 12									
42120 - Pla	nted Jack P	ine	Sapling We	II	186.3	9	Immature	N/A		Duck Lake Fire May 2012. Salvage cut 2012 DLS #4, sale #42-027-12- 01.		
Canopy Species	% Cover	Size Class	DBH Age	Э						Currently under FTP C42-859 for roller chop, plant and monitor. Roller		
Jack Pine	100	Log	1 9							chopped in 2015. Hand planted without furrows in May 2016. Regen		
										survey summer 2017: 220 Trees per acre. FTP 42-859: Trenching complete 8/11/18. To be planted to JP in spring 2019. 5/20/19 FTP C42-859 Planting - Stocking = Planted 1017 trees/ac. 1123 trees/ac plot data, 978 trees/ac linear data.		
	42220 - Nation 42220 - Nation 42220 - Nation Canopy Species Red Oak Red Maple Paper Birch Red Pine Jack Pine 42220 - Nation Canopy Species Red Maple Paper Birch Red Maple Paper Birch Jack Pine 42120 - Pla Canopy Species	d Level 4 Cover Type 42290 - Natural Mixed F 42220 - Natural Jack P Canopy Species % Cover Red Oak 2 Red Maple 5 Paper Birch 10 Red Pine 3 Jack Pine 80 42220 - Natural Jack P Canopy Species % Cover Red Pine 5 Red Maple 5 Paper Birch 10 Jack Pine 80 42120 - Planted Jack P Canopy Species % Cover	Level 4 Cover Type 42220 - Natural Mixed Pine Canopy Species % Cover Size Class Red Oak 2 Log Red Maple 5 Log Paper Birch 10 Log Red Pine 3 Log Jack Pine 80 Log Canopy Species % Cover Size Class Red Pine 5 Log Red Maple 5 Log Paper Birch 10 Log Jack Pine 80 Log 42120 - Planted Jack Pine Cover Size Class	Level 4 Cover Type Size Density 42290 - Natural Mixed Pine Unspecifed 42220 - Natural Jack Pine Sapling We Canopy Species % Cover Size Class DBH Age Red Oak 2 Log 2 Red Maple 5 Log 2 Paper Birch 10 Log 2 Red Pine 3 Log 2 Jack Pine 80 Log 2 12 42220 - Natural Jack Pine Sapling Mediu Canopy Species % Cover Size Class DBH Age Red Pine 5 Log 2 Red Maple 5 Log 2 Paper Birch 10 Log 2 Paper Birch 10 Log 2 Jack Pine 80 Log 2 42120 - Planted Jack Pine Sapling We Canopy Species % Cover Size Class DBH Age	A2290 - Natural Mixed Pine	Acres Size Density Acres Acres Size Density Acres Acres Size Density Acres Ac	Acres Stand Age E	Acres Stand Age BA Range	Acres Stand Age BA Range Managed Size Density Acres Stand Age BA Range Managed Size Density Acres Stand Age BA Range Managed Size Density Avg. Height	Acres Stand Age BA Range Managed Site		

defoliation. Passed.

Regen Check: 10/16/19 - JP 800 TPA. Small pockets of brown

Regen Survey: Fall of 2021 - 693 TPA Jack Pine.

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Stan	d Level 4 C	over Type		Size Dens	sity	Acres	Stand Age	BA Range	Managed Si	ite	General Comments	
43	42120 - Pla Canopy Species Jack Pine		Size Class Log	Sapling Me		23.4	6	Immature	N/A		Duck Lake fire May 2012. Salvage cut 2012, DLS #4, sale #42-027-12-01. Currently under FTP C42-858 for roller chop, plant and monitor. Roller chopped in 2015. Hand planted May 2016 without furrows. Regen check summer 2017: 200 trees/acre. FTP 42-858: Trenching completed 8/8/18. To be planted to JP in spring of 2019. Regen Survey: Fall of 2021 - 436 TPA Jack Pine. Portion of stand is under airport lease agreement. Contractor Data: 5/17/19 Stand 43 - Planted 1109 trees/ac, 1091 trees/ac plot data, 983 trees/ac linear data. Regen Check: 10/16/19 - 833 TPA. Some pocket mortality noticed. Passed.	
44	42120 - Pla	nted Jack F	Pine	Sapling Me	edium	77.4	6	Immature	N/A		Duck Lake fire May 2012. Salvage cut 2012, DLS #4, sale #42-027-12-	
45	Canopy Species Jack Pine Paper Birch 42220 - Nat	98 2 2 tural Jack F	Log Log Log Size Class	DBH A	6 edium	Ja:	nopy Speci ck Pine 13 nopy Speci	Medium		Size < 5 feet	O1. Currently under FTP 42-858 for roller chop, plant and monitor. Roller chopped in 2015. Hand planted to jack pine 5/18/2016. Regen survey summer 2017: 174 Trees/acre. FTP 42-858: Trenching complete 8/8/18. To be planted to JP in spring 2019. Fully stocked 2/24 Contractor Data: 5/17/19 Stocking = Stand 44 - Planted 1074 trees/ac. 1124 trees/ac plot data, 983 trees/ac linear data Regen Check: 10/16/2019 - JP 733 TPA. Regen Survey: Fall of 2021 - 321 TPA Jack Pine. Small pocket in the southeast corner of the stand has log sized red pine. Red maple stump sprouts scattered throughout the stand	
	Red Maple	5	Log	1			ed Pine	Low	< 5 feet	< 5 feet	Duck Lake fire May 2012. Salvage cut 2012 DLS #3, sale #42-026-12-	
	Jack Pine Red Pine	90	Log Log	2 2	13		ite Pine ck Pine	Low	< 5 feet	< 5 feet	01. Regen survey in 2015 by summer students. Mixed red pine, jack pine with red maple. Average 430 trees/acre of pine.	
46	42220 - Na	tural Jack Pine		Sapling Me		273.0 13		Immature	N/A		Duck Lake Fire May 2012. Salvage cut 2012 DLS #4, sale #42-027-12- 01. Regen survey in 2015 by summer students. Variable densities.	
	Canopy Species		Size Class	DBH A	Age		nopy Speci		Avg. Height	Size	Averages 1260 trees/acre. Parts of stand are very dense and others	
	Red Oak	15	Log	2			ed Pine	Low	< 5 feet	< 5 feet	are very open	
	Bigtooth Aspen Jack Pine	5 80	Log Log	2 2	13	Ja	ck Pine	High	< 5 feet	< 5 feet		
47		- Natural Jack Pine				63.6 13		Immature	N/A		Duck Lake Fire May 2012. Salvage cut 2012 DLS #4, sale #42-027-12-	
41				Sapling Medium Sapling Medium							\neg 01. Regen survey in 2015 by summer students. Mostly jack pine with	
	Jack Pine	% Cover	Size Class		4ge		nopy Speci ed Pine	les Density	Avg. Height < 5 feet	Size < 5 feet	red pine. Associated red maple, aspen and birch. Averages 1880	
	Red Maple	3	Log Log	2	13		d Maple	Trace	< 5 feet	< 5 feet	trees/acre.	
	<u>'</u>	2		2			•					
	Paper Birch	2	Log	2		Ja	ck Pine	Low	< 5 feet	< 5 feet		

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Stand	Level 4 Cover Type			Size D	Size Density		Stand Age	BA Range	Managed Site		General Comments
48	42220 - Natural Jack Pine			Sapling Well		19.7	19.7 12		N/A		Duck Lake Fire May 2012. Salvage cut 2012 DLS #4, sale #42-027-12-
	Canopy Species % Cover Size Class		DBI	H Age	Sub-Ca	Sub-Canopy Species		Avg. Height	Size	O1. Regen survey in 2015 by summer students. Stand is fully stocked with jack pine	
	Jack Pine	100	Log	2	12	R	Red Pine		< 5 feet	< 5 feet	otookoa war jaak pirio
		1		'		Ja	ack Pine	Medium	< 5 feet	< 5 feet	
50	42220 - Nat	ural Jack P	ine	Sapling	Mediun	n 151.3	13	Immature	N/A		Duck Lake fire May 2012. Salvage cut 2012, DLS #4, sale #42-027-12-
	Canopy Species % Cover Size Class		DBH Age		Sub-Ca	anopy Speci	es Density	Avg. Height	Size	O1. Regen survey completed by summer students in spring 2015.	
	Jack Pine	100	Log	2 13 Jack Pine		Medium	< 5 feet < 5 feet		Moderately stocked in variable densities. Regen counts vary from 0-17		
				'				'			trees/plot. Average 403 trees/acre.