

Compartment Review Presentation

Newberry Forest Management Unit

Compartment 42021 Entry Year 2023 Acreage: 1,655 County Luce

Management Area: Two Hearted Headwaters

Revision Date: 2021-12-29

Stand Examiner: Jason Tokar

Legal Description:

T48N R11W Sections 1, 2, & 3 T49N R10W Section 31 T49N R11W Sections 35 & 36

Identified Planning Goals:

To maintain forest health, diversity and sustainability while considering wildlife, fisheries, recreation and environmental needs and concerns. Proper silvicultural management will enhance age class diversity and ensure sustainability in all forest cover types.

Soil and topography:

The soil type is predominately Rubicon sand. Croswell-Spot complex and Paquin sand are also major soil types. The topography is mostly level to rolling throughout the compartment. Steep sand banks are found along many portions of the Two Hearted River.

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

The compartment is entirely State owned. State land borders the compartment to the north, and most of the west and south. There are a few private cabins on Long Lake just to the west of the compartment a scattered camps/cabins along the Two Hearted River. The area is used heavily for recreation activity such as camping, hiking, canoeing, fishing, ORV riding and some hunting.

Unique Natural Features:

The compartment falls within the boundaries of the Two Hearted River watershed. The Two Hearted River system is designated as a Natural River. The Pretty Lakes Quiet Area lies adjacent to the west of the compartment. MNFI has also identified the area as The Pretty Lakes dry-mesic northern forest community.

Archeological, Historical, and Cultural Features:

Potential archeological site listed within the compartment boundary.

Special Management Designations or Considerations:

The entire compartment falls within the boundaries of the Two Hearted River watershed. The Two Hearted River system is designated as a Natural River. Management consideration will follow the corresponding Two Hearted River Natural River Plan.

Watershed and Fisheries Considerations:

The North Branch Two-Hearted River joins the mainstem Two-Hearted River just outside this compartment. The North Branch Two-Hearted River is a designated trout stream and supports a native brook trout population. The Two Hearted River is a Natural River and any treatments or activities planned in this compartment should comply to the recommendations in the Two Hearted River Natural River Plan.

Wildlife Habitat Considerations:

Compartment 21 is situated in northern Luce county, east and south of the Pretty Lakes complex and is in the Seney Sand Lake Plain ecological sub-subsection and lies in the Deer Park Management Area with Kirtland's warbler, red crossbill and American marten as featured species. The compartment is a mixture of white and red pine stands with some mixed conifer, aspen and northern hardwood stands scattered throughout. The North branch of the Two Hearted river borders the southern edge of the compartment serving as an excellent east-west wildlife travel corridor. The compartment is a transitional zone between predominately pine types to the north and more deciduous types to the south and therefore, the within stand species diversity of most all stands is quite high.

Wildlife species needs will be met by leaving scattered aspen or birch on stand borders to provide food sources (ruffed grouse, redpolls, and grosbeaks) as well as snags and den trees for wildlife species such as saw-whet owls, flycatchers, chickadees. Pileated woodpecker and marten will utilize snags as well as nesting locations. Large diameter hemlock will

be retained to provide future nest trees and black bear refuge trees. Retained trees will eventually die and fall over providing hunting and travel corridors for fisher and marten and habitat for small mammals. A component of oak will be retained in harvests for mast production

Mineral Resource and Development Concerns and/or Restrictions

Section 31, T49N-R10W, sections 1-4, T48N-R11W, and sections 35-36, T49N-R11W, Luce County

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

Vehicle Access:

The compartment can be accessed via County Road 418 as well as Long Lake Trail. Co Rd 418 is maintained by the Luce County Road Commission as a seasonal county road. Long Lake Trail is a dirt road which runs through most of the compartment and provides access for a few private land owners on the south side of Long Lake. Several two track roads provide access to most areas in the compartment.

Survey Needs:

No survey work is needed to complete the prescribed treatments.

Recreational Facilities and Opportunities:

There are no designated facilities within the compartment. The new equestrian trail uses the fire lane bordering the northwest compartment boundary. Recreational opportunities would include fishing and canoeing along the various branches of the Two Hearted River, hunting, ORV riding, horseback riding, snowmobiling, dog sledding, and wildlife viewing. The High Bridge SF Campground is located just east of the compartment and the Pretty Lakes SF Campground and proposed quiet area is adjacent to the west.

Fire Protection:

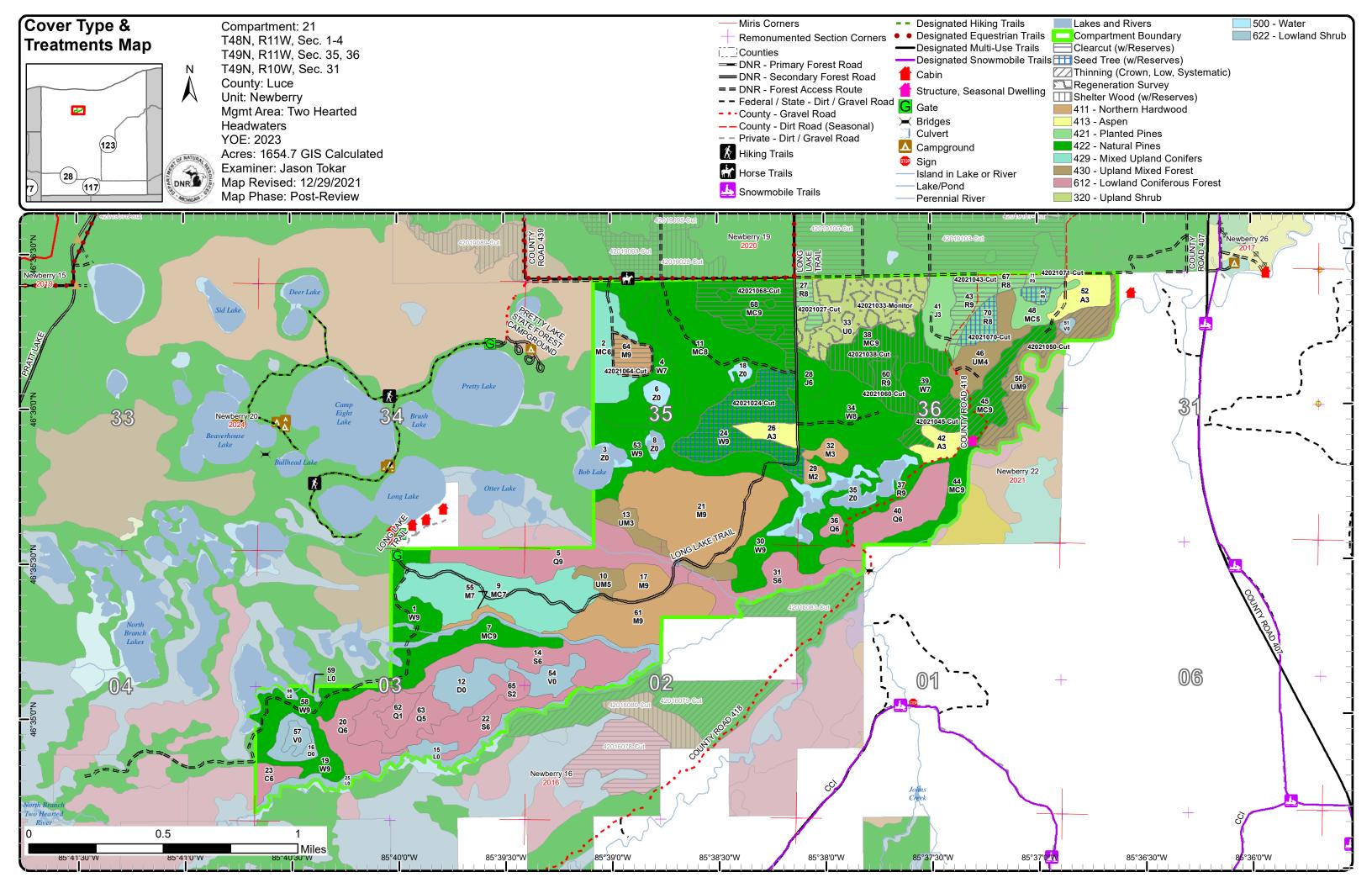
The mixed pine types doesn't lend itself to large fires except in extreme conditions. Access is limited in some areas and may challenge suppression capabilities. The compartment borders the Two Hearted Zone Dispatch Area.

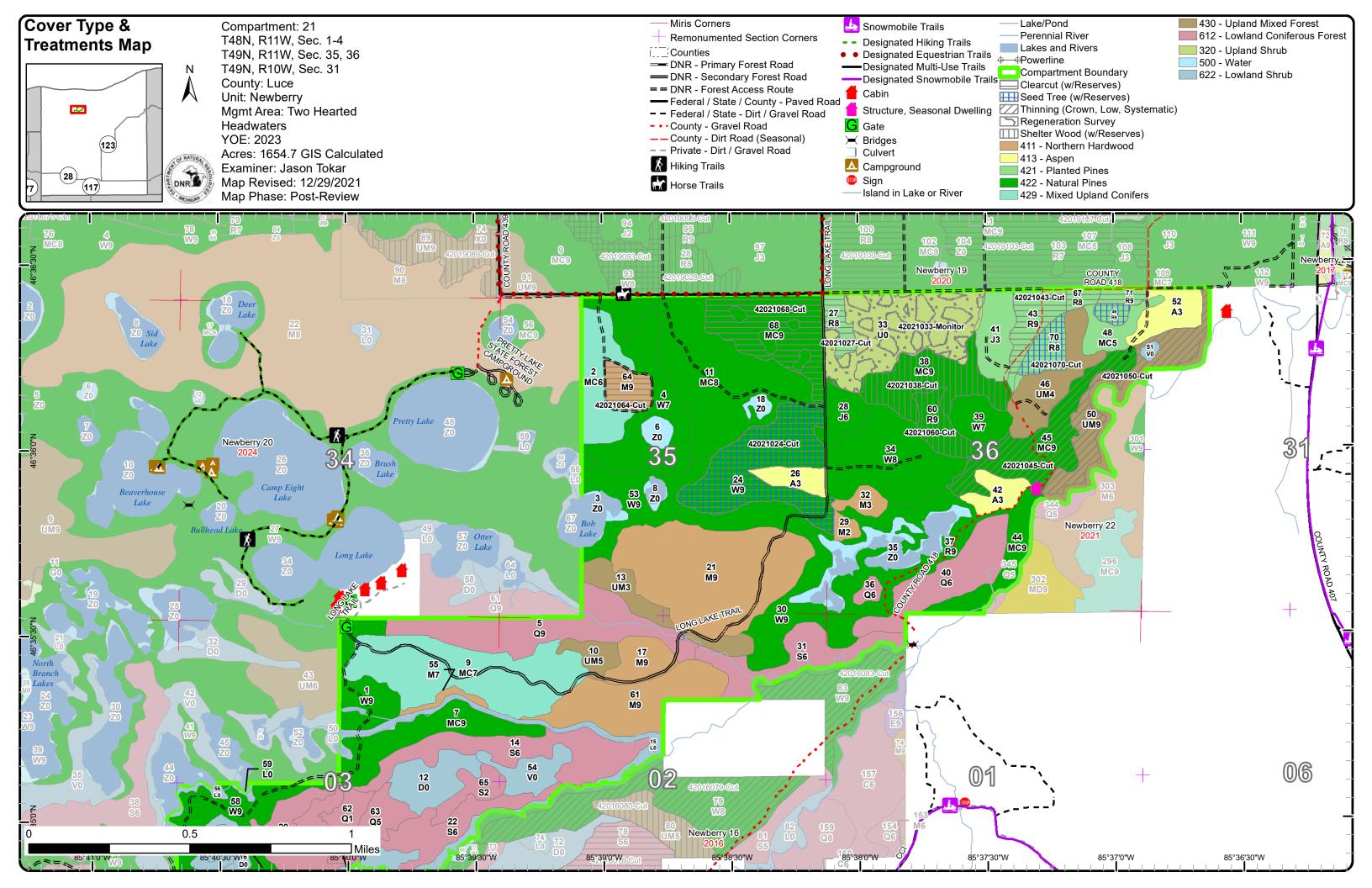
Additional Compartment Information:

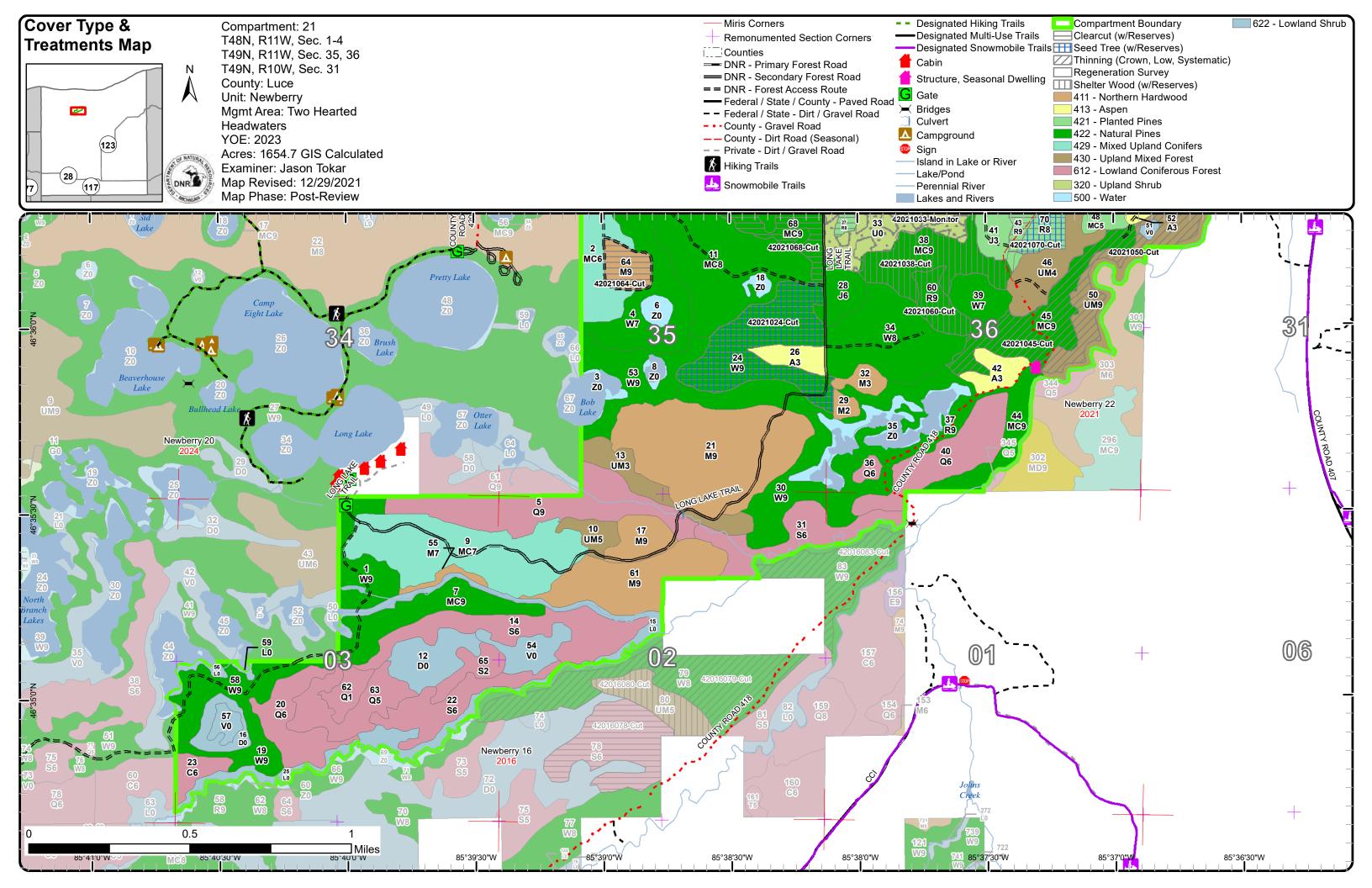
The following reports from the Inventory are attached: Total Acres by Cover Type and Age Class Cover Type by Harvest Method Proposed Treatments – No Limiting Factors Proposed Treatments – With Limiting Factors Stand Details (Forested and Nonforested) Dedicated and Proposed Special Conservation Areas Site Condition Details

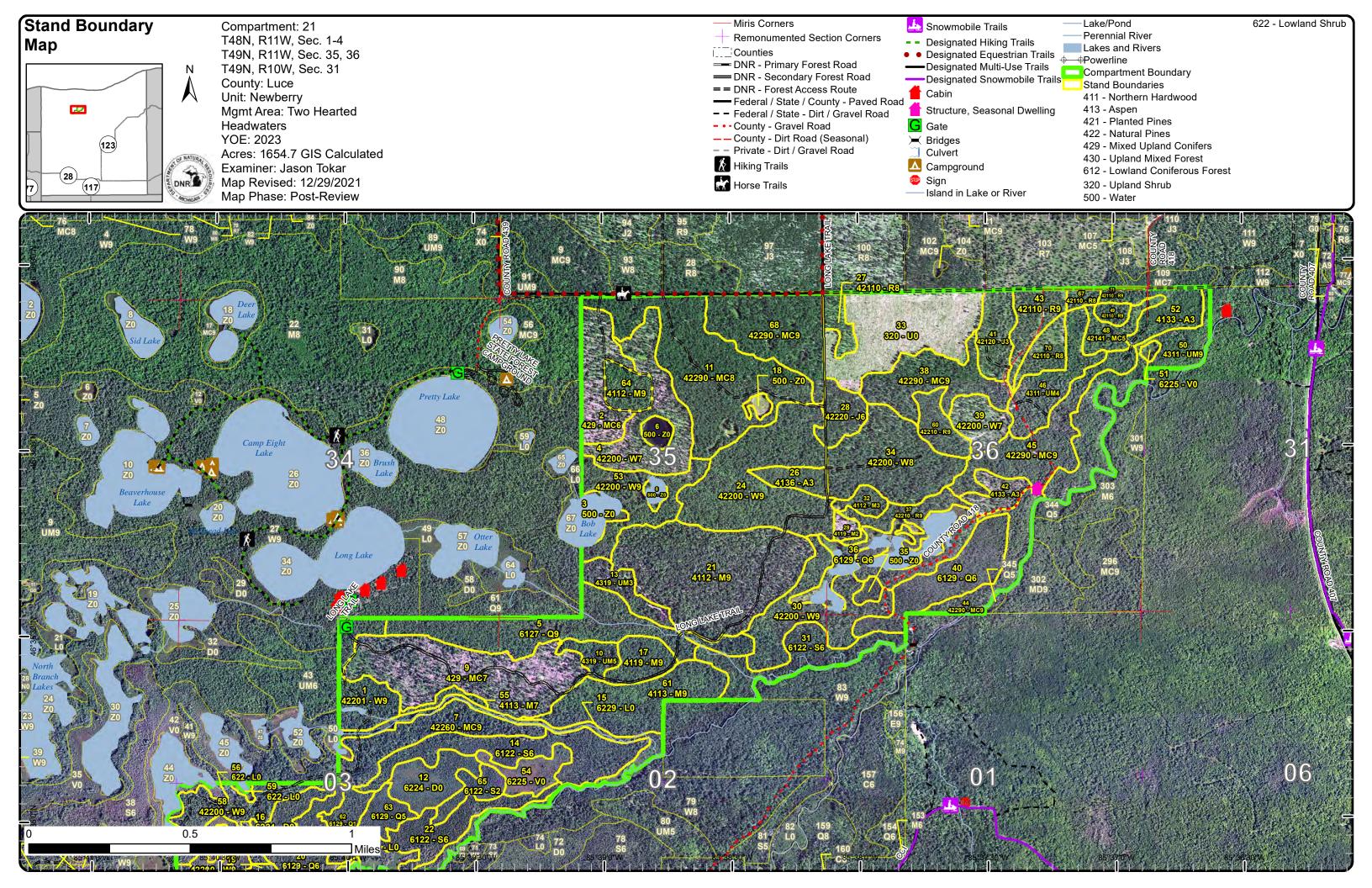
The following information is displayed, where pertinent, on the attached compartment maps:

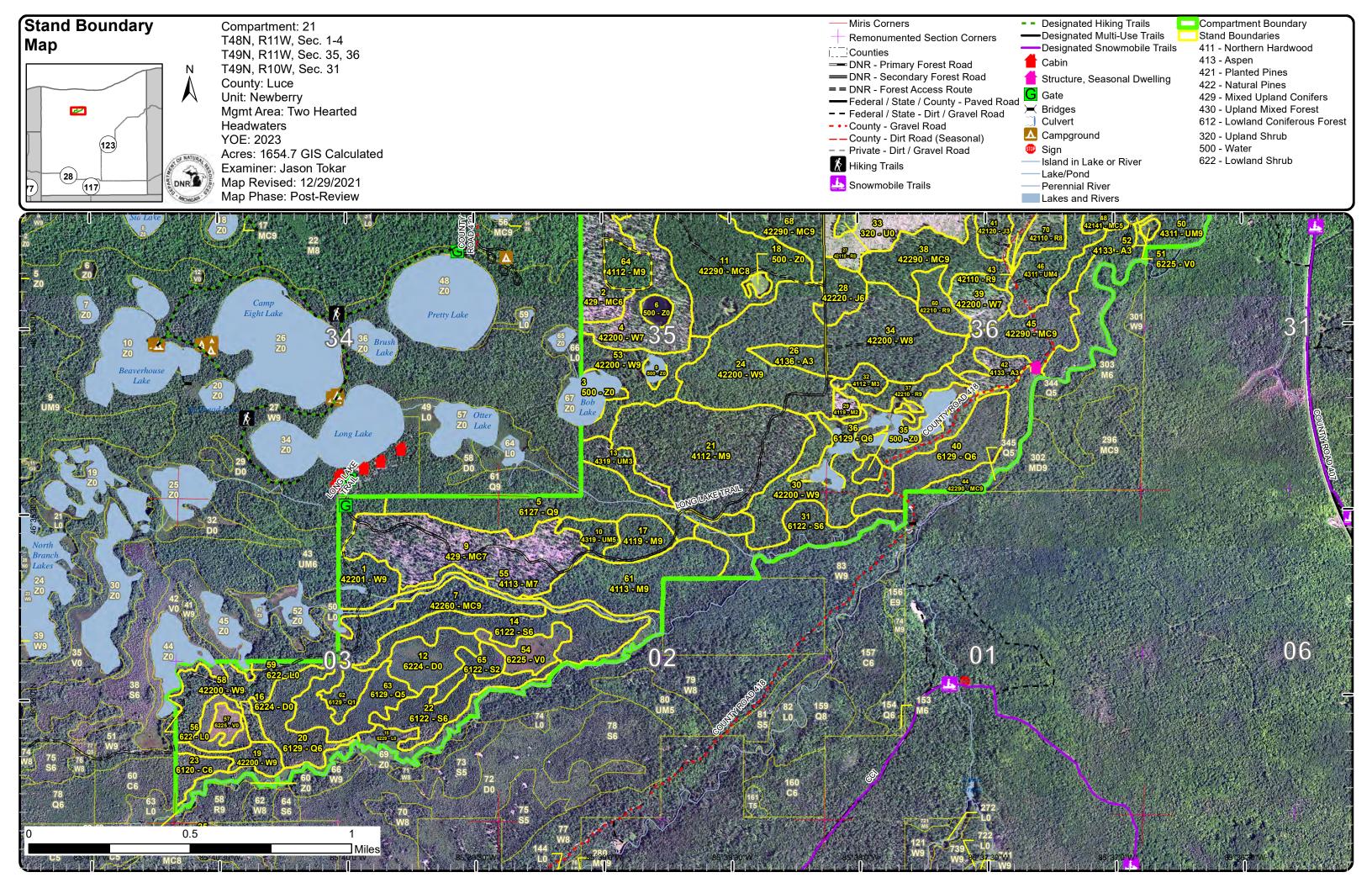
Base feature information, stand boundaries, cover types, and numbers Proposed treatments Site condition boundaries Details on the road access system

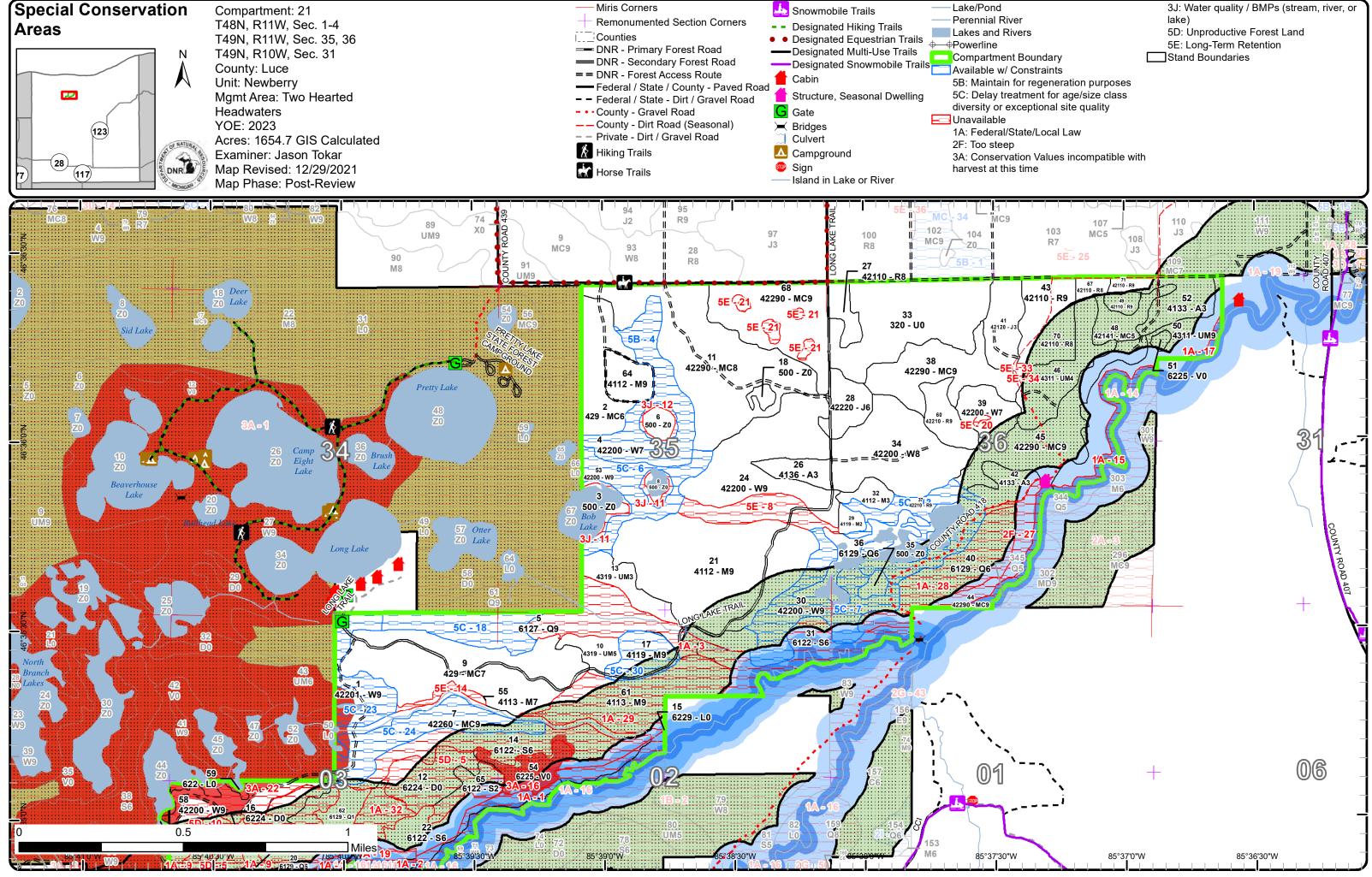


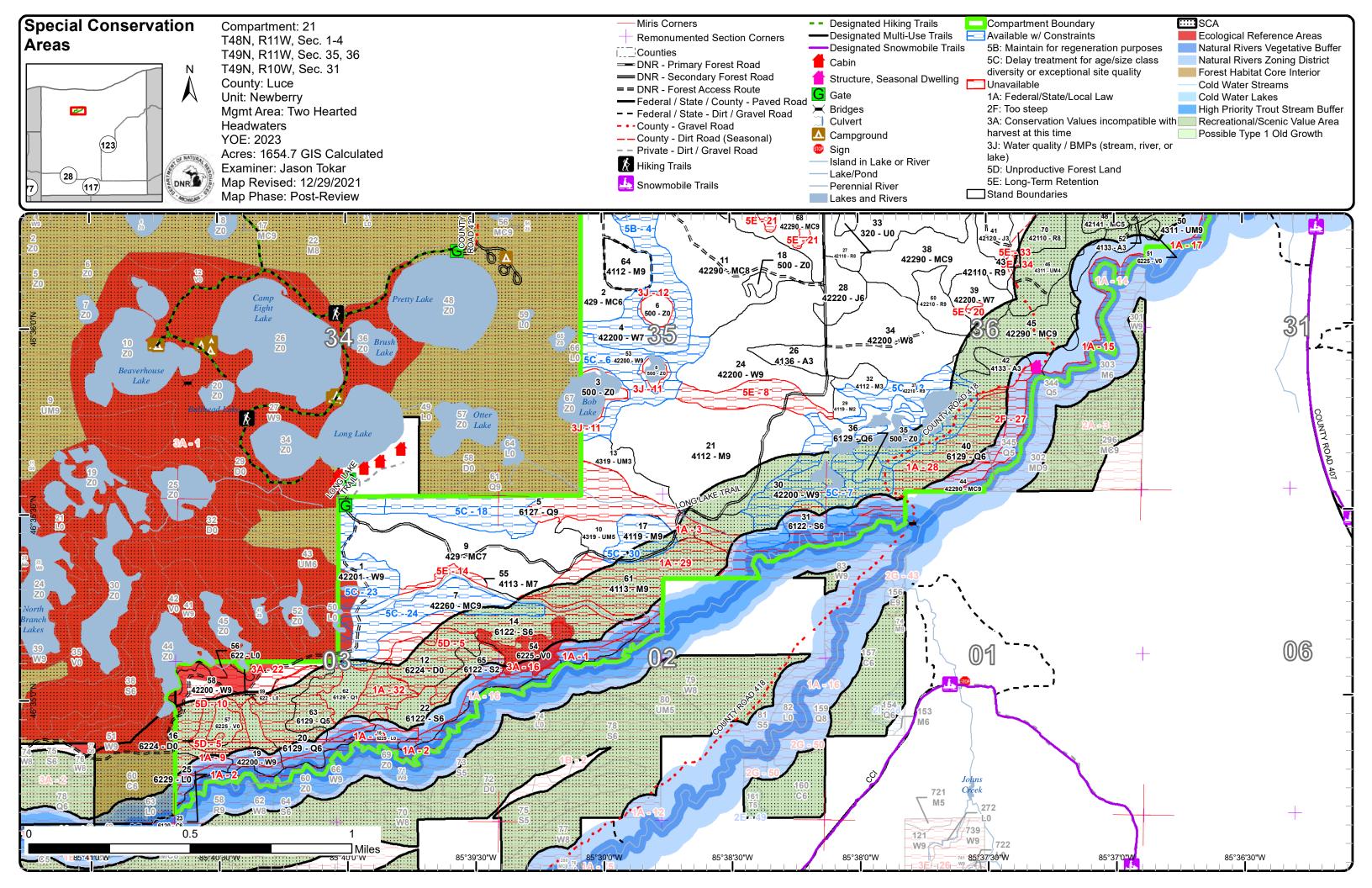












Report 1 – Total Acres by Cover Type and Age Class

Newberry Mgt. Unit

Jason Tokar : Examiner





Age Class

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Aspen	0	11	0	16	10	0	0	0	0	0	0	0	0	0	0	0	0	0	37
Bog	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21
Cedar	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	0	0	0	9
Jack Pine	0	0	0	18	14	0	0	0	0	0	0	0	0	0	0	0	0	0	32
Lowland Conifers	0	0	0	0	0	0	0	9	0	0	0	110	0	40	0	0	0	0	159
Lowland Shrub	48	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	48
Lowland Spruce/Fir	0	0	0	0	0	0	10	26	0	0	0	76	0	0	0	0	0	0	112
Natural Mixed Pines	0	0	0	0	0	0	0	0	0	37	136	64	0	34	0	0	0	0	271
Northern Hardwood	0	4	0	0	6	0	0	0	0	15	62	0	0	0	0	0	0	99	186
Planted Mixed Pines	0	0	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
Red Pine	0	0	0	0	0	0	0	0	0	49	13	0	32	0	0	0	0	0	94
Treed Bog	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31
Upland Conifers	0	0	0	0	0	0	0	0	0	0	106	0	0	0	0	0	0	0	106
Upland Mixed Forest	0	0	0	27	0	20	9	0	0	44	0	0	0	0	0	0	0	0	100
Upland Shrub	63	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	63
Water	51	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	51
White Pine	0	0	0	0	0	0	0	0	0	0	68	74	66	78	42	0	0	0	327
Total	214	15	12	61	30	20	19	35	0	145	385	324	98	152	51	0	0	99	1659



 Year of Entry: 2023
 Acres of Harvest
 Total Compartment Acres: 1,65

 Commercial Harvest - 284
 Commercial Harvest - 284

 Harvests with Site Condition - 0
 Next Step Harvest - 0

 Habitat Cut - 0
 Habitat Cut - 0

Cover Type by Harvest Method

			Constraint of the second secon	Contraction of the second	to of the other	Ball of the second	ion	in Our	Rolling College	S. S	Stor 180	A. C.
Natural Mixed Pines		43	0	0	0	36	42	0	0	0	122	1
Northern Hardwood		12	0	0	0	0	0	0	0	0	12	
Red Pine		33	0	0	15	13	0	0	0	0	61	
Upland Mixed Forest		0	0	0	0	0	30	0	0	0	30]
White Pine		0	0	0	59	0	0	0	0	0	59	
	Total	88	0	0	74	49	72	0	0	0	284]

Proposed and Next Step Treatments by Method

			Contraction of the second	and the second	in contraction of the second	and a start	in o	14. 60.	in the second second	No No	<u>ش / ک</u>	, p ^e
Current		284	0	0	0	0	0	63	0	0	347	
Next Step		0	153	136	0	0	275	271	63	63	962	
	Total	284	153	136	0	0	275	334	63	63	1308	

s		Newberry	Mgt. Unit		Repor	rt3	Treatments		Compartme Year of Ent		DNR DNR
t a	Turaturant		Otomal	Cine	C to und	DA	Turaturant	Tura atura a ut			HA . MICHIGAN
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:

). Areas of advanced aspen and birch in the ring, Natural Regen (I , maple, balsam, jack	Re-Inventory) pine, white birch, white ne portion of the stand lanted Sawtimber	e, spruce and ba e pine.	lsam will be releas	sed with the harve	est. Maximize d	liversity in red`line	
, maple, balsam, jack ion area consists of th <u>:</u> 10/1 /2022 8.0 42110 - P Red P	pine, white birch, white he portion of the stand lanted Sawtimber	that contains ce		long the drainage	∍, as well as sou	ith of the drainag	e.
ion area consists of th <u>:</u> 10/1 /2022 8.0 42110 - P Red P	ne portion of the stand	that contains ce		along the drainage	ə, as well as sou	uth of the drainag	e.
<u>:</u> 10/1 /2022 8.0 42110 - P Red P	anted Sawtimber			along the drainage	e, as well as soເ	uth of the drainag	e.
8.0 42110 - P Red P		89 81-110	Linux et				
8.0 42110 - P Red P		89 81-110	llamont				
Red P		89 81-110	Llaminat				
ut. No retention, sma			Harvest	Clearcut 4	211 - Planted Red Pine	Even-Aged	No
	ll acreage.						
						ticide, Skidder -	
ne							
<u>:</u> 10/1 /2022							
63.0 320 - Uplan	d Shrub Nonstocked	•	Monitoring			Even-Aged	N
r the success of plant	ed red pine, and any n						
de, Aerial - Release;	Other, Pre-Commerci	ial Thinning - Me	chanical; NonFo	restMgt, Brush Cเ	utting		
ne							
nt to Treat = 100%							
i	se; Pesticide, Aerial - ine <u>e:</u> 10/1 /2022 63.0 320 - Uplan or the success of plant	se; Pesticide, Aerial - Release; Planting, I ine 63.0 320 - Upland Shrub Nonstocked or the success of planted red pine, and any r ide, Aerial - Release; Other, Pre-Commerc ine	se; Pesticide, Aerial - Release; Planting, Initial Plant; Plan ine 63.0 320 - Upland Shrub Nonstocked 0 Unspec ified or the success of planted red pine, and any need for additiona ide, Aerial - Release; Other, Pre-Commercial Thinning - Me ine	se; Pesticide, Aerial - Release; Planting, Initial Plant; Planting, Replant; M <u>e:</u> 10/1 /2022 63.0 320 - Upland Shrub Nonstocked 0 Unspec Monitoring ified or the success of planted red pine, and any need for additional release spray. ide, Aerial - Release; Other, Pre-Commercial Thinning - Mechanical; NonFor ine	se; Pesticide, Aerial - Release; Planting, Initial Plant; Planting, Replant; Monitoring, Artificia ine <u>2:</u> 10/1 /2022 63.0 320 - Upland Shrub Nonstocked 0 Unspec Monitoring Artificial 42 ified Regen(3yr) or the success of planted red pine, and any need for additional release spray. ide, Aerial - Release; Other, Pre-Commercial Thinning - Mechanical; NonForestMgt, Brush Cu ine	se; Pesticide, Aerial - Release; Planting, Initial Plant; Planting, Replant; Monitoring, Artificial Re <u>a:</u> 10/1 /2022 63.0 320 - Upland Shrub Nonstocked 0 Unspec Monitoring Artificial 42110 - Planted ified Regen(3yr) Red Pine or the success of planted red pine, and any need for additional release spray. ide, Aerial - Release; Other, Pre-Commercial Thinning - Mechanical; NonForestMgt, Brush Cutting ine	e: 10/1 /2022 63.0 320 - Upland Shrub Nonstocked 0 Unspec Monitoring Artificial 42110 - Planted Even-Aged ified Regen(3yr) Red Pine Even-Aged por the success of planted red pine, and any need for additional release spray. ide, Aerial - Release; Other, Pre-Commercial Thinning - Mechanical; NonForestMgt, Brush Cutting ine

S t		Newber	ry Mgt. Unit		Repo	rt3 1	Freatments		Compartmen Year of Entr		DNR DNR
a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habita Cut
38	42021038-0	Cut 36.3	42290 - Natural Mixed Pine	Sawtimbe Well	r 89	111- 140	Harvest	Shelterwood with Retention	42260 - Natural Pine, Mixed Deciduous	Two-Aged	No
<u>Pre</u> Spe								3-5% located in are sidual BA as well. R			ude oak.
	<u>kt Step</u> Mor atments:	nitoring, Natu	ral Regen (Re-Inve	ntory)							
	<u>ceptable</u> Mix g <u>en:</u>	ed deciduous	s species currently p	present, with	i some	white pine	e and red pine.				
	<u>nment:</u>										
	<u>e Condition</u> posed Start D	<u>ate:</u> 10/1 /2	022								
43	42021043-0	Cut 16.5	42110 - Planted Red Pine	Sawtimbe Well	r 89	111- 140	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	No
	<u>scription</u> Cle ecs:	arcut w/reten	tion. Retention pate	ch of 3% in	very so	uthern en	d of the stand a	as mapped. Retain	the 2 large oak w	est of road.	
<u>Rec</u> Oth Cor Site	<u>eptable</u> Red gen: her Sta nment: Condition posed Start D	nd was reduc	ed from original pla	nting acrea	ge due	to Two He	earted River Na	tural River Plan.			
45	42021045-0	Cut 41.8	42290 - Natural Mixed Pine	Sawtimbe Well	r 106	111- 140	Harvest	Crown Thinning	42260 - Natural Pine, Mixed Deciduous	Two-Aged	No
<u>Spe</u>	ecs: spr	uce, balsam,	birch and jack pine	unless need	ded to r	naintain th	ne required res	River Plan for harves idual BA. No harves River Plan specificat	sting within 100 ft	of the Two He	earted
Trea											
<u>Acc</u> Rec	gen:	ed pine (red,	white and jack) with	n aspen, ma	ple, spr	ruce and b	oalsam.				
<u>Acc</u> <u>Rec</u> <u>Oth</u> <u>Cor</u>	gen: ler mment:	ed pine (red,	white and jack) with	n aspen, ma	ple, spr	ruce and b	oalsam.				
Acc Rec Oth Cor Site	gen: ler			n aspen, ma	ple, spr	ruce and b	oalsam.				

Newberry Mgt. Unit **Report 3 -- Treatments** Compartment: 21 S Year of Entry: 2023 t а Treatment Stand Size Stand BA Treatment Treatment Cover Type Acres Age Habitat n Method Objective Name CoverType Density Age Range Type Structure Cut d 49 42021049-Cut 4.0 42110 - Planted Sawtimber 89 111-Harvest Seed Tree 4133 - Aspen. Even-Aaed No Red Pine Mixed Pine Well 140 Prescription Seed tree. Leave 10-20 BA of red pine and/or white pine. No other retention, small acreage. Leave diversity in the red line. Specs: Next Step Monitoring, Natural Regen (Re-Inventory) Treatments: Acceptable Aspen with maple, white pine, white birch. Regen: <u>Other</u> Stand was reduced from original planting acreage due to Two Hearted River Natural River Plan. Comment: Site Condition Proposed Start Date: 10/1 /2022 42021050-Cut 30.4 4311 - Pine, Aspen Sawtimber 81 Harvest Crown Thinning 42260 - Natural 141-Two-Aged No 50 Mix Well 170 Pine, Mixed Deciduous Prescription Thin the stand to a residual BA that follows the the Two Hearted River Natural River Plan for harvest restrictions. Remove all aspen, maple, spruce, balsam, birch and jack pine unless needed to maintain the required residual BA. No harvesting within 100 ft of the Two Hearted Specs: River (as outlined in the plan). Treatment acreage may change due to Natural River Plan specifications and topography within the stand. Next Step Treatments: Acceptable Mixed pine (red, white, jack) with aspen, maple, balsam and spruce. Regen: <u>Other</u> Comment: Site Condition Proposed Start Date: 10/1 /2022 42021060-Cut 42210 - Natural Sawtimber 111-Harvest Shelterwood with 42260 - Natural Two-Aged 13.0 96 No 60 Red Pine Well 140 Retention Pine, Mixed Deciduous **Prescription** Shelterwood with retention. Residual BA of 30-40 sq ft. Concentrate marking red pine as residual. Retain a component of white pine. Remove all other species. Patch Retention of 3% in the southern end of the stand in area of mature white pine. Specs: Next Step Monitoring, Natural Regen (Re-Inventory) Treatments: Acceptable White pine, aspen, maple, jack pine, red pine. Regen: Other Comment: Site Condition Proposed Start Date: 10/1 /2022

t		Newberr	y Mgt. Unit		Repo	rt3 1	reatments		Compartmen Year of Entry		DNR DNR
a n d	Treatmen Name	t Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habita Cut
64	42021064-	Cut 11.8	4112 - Maple, Beech, Cherry Association	Sawtimbe Well	er 95	81-110	Harvest	Clearcut with Retention	4116 - Mixed N. Hardwood - Aspen	Even-Aged	No
<u>Pres</u> Spe		earcut w/retent	ion. Retention pate	ch of 3% of	stand a	creage loo	ated in area of	large hemlock.			
	<u>tt Step</u> Mo atments:	nitoring, Natur	ral Regen (Re-Inve	ntory)							
	<u>eptable</u> Ma <u>gen:</u>	ple, Beech, Ye	ellow Birch and asp	en with a c	onifer co	omponent					
<u>Oth</u> Con	<u>er</u> Sta <u>nment:</u>	ind will have g	ood component of	sub-mercha	antable	hardwood	s and aspen ret	ained after harvest			
	Condition	Date: 10/1 /20	22								
	42021067-		42110 - Planted Red Pine	Sawtimbe Medium		51-80	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	No
Pres Spe		arcut. No rete	ention, small acrea			pine in the	e red line where	possible.			
			Chopping; SitePre cial Regen(1yr); M						ler - Release; Pla	anting, Initial I	Plant;
_	<u>eptable</u> Re <u>jen:</u>	d pine									
<u>Oth</u> Con	<u>er</u> Sta nment:	ind was reduc	ed from original pla	nting acrea	ge due	to Two He	arted River Nat	tural River Plan.			
<u>Site</u>	Condition										
Pro	posed Start I	<u>Date:</u> 10/1 /20)22								
68	42021068-	Cut 43.4	42290 - Natural Mixed Pine	Sawtimbe Well	er 92	81-110	Harvest	Clearcut with	4211 - Planted	Even Ared	
								Retention	Red Pine	Even-Aged	Nc
			ention. Patch reten						Red Pine	Ū	
<u>Spe</u> Nex	<u>ecs:</u> Le <u>kt Step</u> Sit	ave diversity ir ePrep, Roller (ention. Patch reten	cially aspen p, Trenchin	and bir g; Pes	ch when p sticide, Ski	ossible. dder - Site Prep	eas within the stand o; Pesticide, Skido	Red Pine d as mapped. No der - Release; Pe	individual tree	e retentio
<u>Spe</u> <u>Nex</u> <u>Trea</u>	<u>ecs:</u> Le <u>at Step</u> Sit <u>atments:</u> Re <u>eptable</u> Re	ave diversity ir ePrep, Roller (lease; Plantir	ention. Patch reten the red line, espec Chopping; SitePre	cially aspen p, Trenchin	and bir g; Pes	ch when p sticide, Ski	ossible. dder - Site Prep	eas within the stand o; Pesticide, Skido	Red Pine d as mapped. No der - Release; Pe	individual tree	e retentio
<u>Spe</u> <u>Nex</u> <u>Trea</u> <u>Acc</u> <u>Reg</u> Oth	e <u>cs:</u> Le <u>at Step</u> Sit atments: Re eptable Re gen:	ave diversity ir ePrep, Roller (lease; Plantir d Pine	ention. Patch reten the red line, espec Chopping; SitePre	cially aspen p, Trenchin onitoring, A	and bir g; Pes rtificial I	ch when p sticide, Ski Regen(1yr	ossible. dder - Site Prep	eas within the stand o; Pesticide, Skido	Red Pine d as mapped. No der - Release; Pe	individual tree	e retentio
<u>Spe</u> <u>Nex</u> <u>Trea</u> <u>Acc</u> <u>Reg</u> <u>Othe</u> <u>Con</u>	e <u>cs:</u> Le <u>et Step</u> Sit <u>atments:</u> Re <u>eptable</u> Re <u>jen:</u> Re	ave diversity ir ePrep, Roller (lease; Plantir d Pine	ention. Patch reten h the red line, espec Chopping; SitePre ng, Initial Plant; M	cially aspen p, Trenchin onitoring, A	and bir g; Pes rtificial I	ch when p sticide, Ski Regen(1yr	ossible. dder - Site Prep	eas within the stand o; Pesticide, Skido	Red Pine d as mapped. No der - Release; Pe	individual tree	e retentio
<u>Spe</u> <u>Nex</u> <u>Trea</u> <u>Acc</u> <u>Reg</u> <u>Othe</u> <u>Con</u> <u>Site</u>	<u>ecs:</u> Le <u>at Step</u> Sit <u>atments:</u> Re <u>eptable</u> Re <u>jen:</u> <u>er</u> Re <u>nment:</u> <u>e Condition</u>	ave diversity ir ePrep, Roller (lease; Plantir d Pine	ention. Patch reten n the red line, espec Chopping; SitePre ng, Initial Plant; M I 4 vernal ponds, or	cially aspen p, Trenchin onitoring, A	and bir g; Pes rtificial I	ch when p sticide, Ski Regen(1yr	ossible. dder - Site Prep	eas within the stand o; Pesticide, Skido	Red Pine d as mapped. No der - Release; Pe	individual tree	e retentio
<u>Spe</u> <u>Nex</u> <u>Trea</u> <u>Acc</u> <u>Reg</u> <u>Oth</u> <u>Con</u> <u>Site</u> <u>Pro</u>	<u>ecs:</u> Le <u>at Step</u> Sit <u>atments:</u> Re <u>eptable</u> Re <u>jen:</u> <u>er</u> Re <u>nment:</u> <u>e Condition</u>	ave diversity ir ePrep, Roller (lease; Plantir d Pine tention around <u>Date:</u> 10/1 /20	ention. Patch reten n the red line, espec Chopping; SitePre ng, Initial Plant; M I 4 vernal ponds, or	cially aspen p, Trenchin onitoring, A	and bir g; Pes rtificial I th in wic	ch when p sticide, Ski Regen(1yr	ossible. dder - Site Prep	eas within the stand o; Pesticide, Skido	Red Pine d as mapped. No der - Release; Pe	individual tree	e retentio
Spe Nex Trea Acc Reg Oth Con Site Prop 70	accs: Le atments: Re aeptable Re gen: Re er Re nment: Re condition Start I posed Start I 42021070- scription Se	ave diversity ir Prep, Roller (lease; Plantir d Pine tention around <u>Date:</u> 10/1 /20 Cut 11.0	ention. Patch reten n the red line, espec Chopping; SitePre- ng, Initial Plant; M I 4 vernal ponds, or 222 42110 - Planted Red Pine dual BA max of 10-2	cially aspen p, Trenchin onitoring, A ne tree leng Sawtimbe Medium	and bir g; Pes rtificial I th in wic	ch when p sticide, Ski Regen(1yr dth. 81-110	ossible. dder - Site Preg); Monitoring, Harvest	eas within the stand b; Pesticide, Skidd Artificial Regen(3yr Seed Tree with Retention	Red Pine d as mapped. No der - Release; Pe); Plant 4133 - Aspen, Mixed Pine	individual tree esticide, Aeria	e retentio I - No
Spe Nex Trea Acc Reg Oth Con Site Prop 70 Pres Spe Nex	ecs: Le atments: Re atments: Re aeptable Re gen: Re er Re nment: Re condition Re posed Start I Re 42021070- Seription scription Se ess: the	ave diversity ir ePrep, Roller (lease; Plantir d Pine tention around <u>Date:</u> 10/1 /20 Cut 11.0 ed tree. Resic stand as map	ention. Patch reten n the red line, espec Chopping; SitePre- ng, Initial Plant; M I 4 vernal ponds, or 222 42110 - Planted Red Pine dual BA max of 10-2	cially aspen p, Trenchin onitoring, A ne tree leng Sawtimbe Medium 20 sq ft. All	and bir g; Pes rtificial I th in wic	ch when p sticide, Ski Regen(1yr dth. 81-110	ossible. dder - Site Preg); Monitoring, Harvest	eas within the stand b; Pesticide, Skidd Artificial Regen(3yr Seed Tree with Retention	Red Pine d as mapped. No der - Release; Pe); Plant 4133 - Aspen, Mixed Pine	individual tree esticide, Aeria	e retentio
Spe Nex Trea Acc Reg Oth Con Site Prop 70 Pres Spe Nex Trea	accs: Le atments: Re atments: Re apptable Re apptable Re approximation Re accondition Re posed Start I 42021070- acciption Se acciption Se atments: Model atments: As	ave diversity ir Prep, Roller (lease; Plantir d Pine tention around <u>Date:</u> 10/1 /20 Cut 11.0 ed tree. Resid stand as map nitoring, Natur	ention. Patch reten n the red line, espec Chopping; SitePre ng, Initial Plant; M I 4 vernal ponds, or 022 42110 - Planted Red Pine dual BA max of 10-2 oped.	cially aspen p, Trenchin onitoring, A ne tree leng Sawtimbe Medium 20 sq ft. All ntory)	and bir g; Pes rtificial I th in wic	ch when p sticide, Ski Regen(1yr dth. 81-110	ossible. dder - Site Preg); Monitoring, Harvest	eas within the stand b; Pesticide, Skidd Artificial Regen(3yr Seed Tree with Retention	Red Pine d as mapped. No der - Release; Pe); Plant 4133 - Aspen, Mixed Pine	individual tree esticide, Aeria	l - No
Spe Nex Trea Acc Reg Oth Con Site Prop 70 Pres Spe Nex Trea Acc Spe	accs: Le atments: Sit atments: Re apptable Re gen: Re er Re amment: Re condition Re posed Start I Accolor acciption Se accs: the atments: Model atments: Accolor atments: Accolor apptable As apptable As	ave diversity ir Prep, Roller (lease; Plantir d Pine tention around <u>Date:</u> 10/1 /20 Cut 11.0 ed tree. Resid stand as map nitoring, Natur	ention. Patch reten n the red line, espec Chopping; SitePre ng, Initial Plant; M 14 vernal ponds, or 222 42110 - Planted Red Pine dual BA max of 10-2 oped. ral Regen (Re-Inver	cially aspen p, Trenchin onitoring, A ne tree leng Sawtimbe Medium 20 sq ft. All ntory)	and bir g; Pes rtificial I th in wic	ch when p sticide, Ski Regen(1yr dth. 81-110	ossible. dder - Site Preg); Monitoring, Harvest	eas within the stand b; Pesticide, Skidd Artificial Regen(3yr Seed Tree with Retention	Red Pine d as mapped. No der - Release; Pe); Plant 4133 - Aspen, Mixed Pine	individual tree esticide, Aeria	e retentio
Spe Nex Trea Acc Reg Oth Con Site Proj 70 Pres Spe Nex Trea Acc Reg Oth Con	accs: Le atments: Re atments: Re aptable Re appased Start I Accordition appased Start I Accordition accs: the atments: Modatments: atments: Accordition appateble As aptable As aptable As	ave diversity ir Prep, Roller (lease; Plantir d Pine tention around <u>Date:</u> 10/1 /20 Cut 11.0 ed tree. Resid stand as map nitoring, Natur	ention. Patch reten n the red line, espec Chopping; SitePre ng, Initial Plant; M 14 vernal ponds, or 222 42110 - Planted Red Pine dual BA max of 10-2 oped. ral Regen (Re-Inver	cially aspen p, Trenchin onitoring, A ne tree leng Sawtimbe Medium 20 sq ft. All ntory)	and bir g; Pes rtificial I th in wic	ch when p sticide, Ski Regen(1yr dth. 81-110	ossible. dder - Site Preg); Monitoring, Harvest	eas within the stand b; Pesticide, Skidd Artificial Regen(3yr Seed Tree with Retention	Red Pine d as mapped. No der - Release; Pe); Plant 4133 - Aspen, Mixed Pine	individual tree esticide, Aeria	e retentio

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S t a		Newberry	v Mgt. Unit		Repoi	rt3 ˈ	Treatments		Compartmen Year of Entr		DNR DNR DNR DNR CHIGAU
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
71	42021071-Cut	4.6	42110 - Planted Red Pine	Sawtimbe Well	r 89	111- 140	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	No
Spec Next Trea Acce Rege Othe Com Site	<u>Step</u> SitePre tments: Monitor eptable Red Pir en:	ep, Roller C ring, Artific ne was reduce	al Regen(1yr); M	p, Trenchin onitoring, A	g; Pes rtificial I	ticide, Sk Regen(3y	kidder - Site Prep rr); Planting, Re	; Pesticide, Skido plant	ler - Release; Pl	anting, Initial	Plant;

Total Treatment 346.6 Acreage Proposed:

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Report 4 – Site Conditions

Newberry Mgt. Unit

Compartment: 21 Year of Entry: 2023

Jason Tokar : Examiner

Availability for Management

Total	Acres	Acres Avail	Acres		Domina	nt Site	Cond	dition	s			
Acres	Available	With Condition	Not Available		5B	5C	1A	2F	ЗA	3J	5D	5E
36	36	0	0	Aspen								
21	7	0	14	Bog			0		14		0	
9	0	0	9	Cedar			9					
32	32	0	0	Jack Pine								
159	12	25	122	Lowland Conifers		25	122		0			
48	13	0	36	Lowland Shrub			30		5			
112	17	0	95	Lowland Spruce/Fir			85		0		10	
270	209	33	27	Natural Mixed Pines		33	7	15				5
185	120	15	50	Northern Hardwood		15	46					4
12	12	0	0	Planted Mixed Pines								
94	61	32	1	Red Pine		32						1
31	0	0	31	Treed Bog					0		31	
106	106	0	0	Upland Conifers								
98	86	0	13	Upland Mixed Forest			13					
63	63	0	0	Upland Shrub								
51	51	0	0	Water								
328	131	133	64	White Pine	41	93	10		28	6		19
1,654	955	239	460	Total Forested Acres	41	198	322	15	47	6	41	29
	58%	14%	28%	Relative Percent								

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

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	1A: Federal/State/Local Law	26	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Natural River manaç	gement zone					
2	Unavailable	1A: Federal/State/Local Law	25	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						

Report 4 –	Site	Conditions
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Compartment: 21

Jason Tokar : Examiner

Newberry Mgt. Unit

Year of Entry: 2023

3	Unavailable	1A: Federal/State/Local Law	63	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
4	Available	5B: Maintain for regeneration purposes	41	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
5	Unavailable	5D: Unproductive Forest Land	35	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
6	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	27	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
7	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	42	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
8	Unavailable	5E: Long-Term Retention	19	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Retention for stand	24, along the drainage and area	a south t	that contains cedar, heml	ock and large white pine.		

		vberry Mgt. Unit Tokar : Examiner		Report 4 – Site Con	ditions	Compartment: 21 Year of Entry: 2023		
9	Unavailable	1A: Federal/State/Local Law	17	Unspecified	Unspecified	Unspecified	Unspecified	
	Comments: Natural River Zone							
10	Unavailable	5D: Unproductive Forest Land	7	Unspecified	Unspecified	Unspecified	Unspecified	
	Comments:							
11	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	5	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified	
	Comments:							
12	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	2	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified	
	Comments:							
13	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	32	Unspecified	Unspecified	Unspecified	Unspecified	
	Comments:							
14	Unavailable	5E: Long-Term Retention	4	Unspecified	Unspecified	Unspecified	Unspecified	
	Comments:							

Report 4 – Site Conditions

Compartment: 21

Jason Tokar : Examiner

Newberry Mgt. Unit

Year of Entry: 2023

omments: atural River mana Unavailable						
Unavailable						
	3A: Conservation Values incompatible with harvest at this time	14	Unspecified	Unspecified	Unspecified	Unspecified
omments: RA						
Unavailable	1A: Federal/State/Local Law	2	Unspecified	Unspecified	Unspecified	Unspecified
omments: atural River mana	agement zone					
Available	5C: Delay treatment for age/size class diversity or exceptional site quality	25	Unspecified	Unspecified	Unspecified	Unspecified
omments:						
Unavailable	1A: Federal/State/Local Law	6	Unspecified	Unspecified	Unspecified	Unspecified
omments:						
Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
omments:						
	A Unavailable omments: atural River mana Available omments: Unavailable omments: Unavailable omments:	omments: Unavailable 1A: Federal/State/Local Law omments: atural River management zone Available 5C: Delay treatment for age/size class diversity or exceptional site quality omments: Unavailable 1A: Federal/State/Local Law omments: Unavailable 5E: Long-Term Retention	omments: Inavailable 1A: Federal/State/Local 2 Law 2 2 omments: age/size class diversity or exceptional site quality 25 Available 5C: Delay treatment for age/size class diversity or exceptional site quality 25 omments: Inavailable 1A: Federal/State/Local 6 Unavailable 1A: Federal/State/Local 6 Law 1 0 0 omments: Inavailable 5E: Long-Term Retention 1 omments: Inavailable 5E: Long-Term Retention 1	Dimments: Image: Amount of the system of	mments: RA Unavailable 1A: Federal/State/Local Law 2 Unspecified Unspecified pomments: age/size class diversity or exceptional site quality 25 Unspecified Unspecified Available 5C: Delay treatment for age/size class diversity or exceptional site quality 25 Unspecified Unspecified omments: Unavailable 1A: Federal/State/Local 6 Unspecified Unspecified omments: Unavailable 1A: Federal/State/Local 6 Unspecified Unspecified unavailable 1A: Federal/State/Local 6 Unspecified Unspecified omments: unavailable 5E: Long-Term Retention 1 Unspecified Unspecified omments: unavailable 5E: Long-Term Retention 1 Unspecified Unspecified	mments: NA Unavailable 1A: Federal/State/Local 2 Unspecified Unspecified Unspecified amments: stural River management zone 25 Unspecified Unspecified Unspecified Unspecified Available 5C: Delay treatment for age/size class diversity or exceptional site quality 25 Unspecified Unspecified Unspecified unavailable 1A: Federal/State/Local Law 6 Unspecified Unspecified Unspecified unavailable 5E: Long-Term Retention 1 Unspecified Unspecified Unspecified unavailable 5E: Long-Term Retention 1 Unspecified Unspecified Unspecified

		vberry Mgt. Unit Tokar : Examiner		Report 4 – Site Cond	itions	Compartment: 21 Year of Entry: 2023		
21	Unavailable	5E: Long-Term Retention	5	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified	
	Comments:							
22	Unavailable	3A: Conservation Values incompatible with harvest at this time	32	Unspecified	Unspecified	Unspecified	Unspecified	
	Comments:							
23	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	25	Unspecified	Unspecified	Unspecified	Unspecified	
	Comments:							
24	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	34	Unspecified	Unspecified	Unspecified	Unspecified	
	Comments:							
27	Unavailable	2F: Too steep	15	Unspecified	Unspecified	Unspecified	Unspecified	
	Comments: Narrow ridge with s	steep slope down to the Two He	arted R	iver corridor. Natural River F	lan and considerations	preclude harvesting this sta	and.	
~~	Unavailable	1A: Federal/State/Local Law	37	Unspecified	Unspecified	Unspecified	Unspecified	
28								

		wberry Mgt. Unit Tokar : Examiner		Report 4 – Site Cor	nditions	Compartment: 21 Year of Entry: 2023		
29	Unavailable	1A: Federal/State/Local Law	46	Unspecified	Unspecified	Unspecified	Unspecified	
Ś	Comments: Stand is ready to b ocated.	be managed by a shelterwood ha	arvest, ho	wever the Natural River	Plan doesn't allow that type	e of residual BA within the z	cone that this stand is	
30	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	15	Unspecified	Unspecified	Unspecified	Unspecified	
(Comments:							
32	Unavailable	1A: Federal/State/Local Law	83	Unspecified	Unspecified	Unspecified	Unspecified	
	Comments: Natural River Plan	management restrictions and d	ifficult acc	cess. Not likely to ever n	nanage these stands/timbe	r types.		
33	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified	
(Comments:							
34	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified	
(Comments:							



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

Compartment: 21 Year of Entry 2023



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.

Conservat Area	ion Type	Description	ERA = Ecological Reference Area HCVA = High Conservation Value Area SCA = Special Conservation Area
SCA	Cold Water Lake	A coldwater lake has temperature and dissolved oxygen conditions stocked trout populations and those of other coldwater fish spect conditions for coldwater fishes may occur in Michigan lakes if the groundwater inflows, or are located in colder (northern) areas of Director's action and designated as trout resources by Fisheries	ies to persist from year to year. Suitable ey are relatively deep, have substantial the state. Such lakes are established by
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen cond stocked trout populations and those of other coldwater fish spec year to year. Coldwater streams in Michigan typically provide the contributions of groundwater to their stream flows. Such streams designated as trout resources by Fisheries Order 210.	ies (e.g., slimy sculpin) to persist from ese conditions due to substantial
SCA	Type 1 and Type 2 Old Growth	Old-Growth forest (also termed primary forest, ancient forest, vir forest, or primeval forest) is an area of forest that has few or no s exhibits unique ecological features related to age, composition a are of natural origin. They may be dominated by late succession American beech), or may be a very old example of a stand domi species (i.e. oak, or red pine).	signs of human disturbance and that and associated structure. Old growth forests al forest species (i.e. sugar maple and
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in influences the aquatic ecosystem and vice-versa. Because of the streams and open water wetlands, riparian areas harbor a high o communities are ecologically and socially significant in their effe as aesthetics, habitat, bank stability, timber production, and their	e unique conditions adjacent to lakes, diversity of plants and wildlife. Riparian cts on water quality and quantity, as well
HCVA	Natural Rivers	There are two Natural Rivers datasets which are derived from sp approved distance from the river centerlines. The Natural Rivers most Natural Rivers. The Vegetative Buffer ranges from 25 to 10 and Vegetative Buffers for each Natural River see the table locat folder.	s Zoning District is a 400 foot buffer for 00 feet. To view specific Zoning Districts
ERA	Ecological Reference Areas	Ecological Reference Areas (ERAs) are high quality examples of identified as Element Occurrences (EOs) by the Michigan Natura context of their natural community classification system. Elemen (Excellent) or B (Good) and a Global (G) or State (S) element (ra threatened (2), or rare (3) serve as an initial base of ERAs. They the State. The system is comprised of individual or associations managed for restoration and maintenance of natural ecological p submit recommendations for lands as ERAs using the DNR Con	al Features Inventory (MNFI) within the t Occurrences with viability ranks of A arity) ranking of endangered (1), way be located upon any ownership in of natural community types that are processes and values. The public may

Report 7 – Stands

Compartment: 21

NE DNE

Year of Entry: 2023

tand	d Level 4 Cover Type Size D				Density Acres Stand Age BA Range					General Comments		
1	42201 - Natural Dec	White Pine	, Mixed Sa	awtimbe	er Well	24.6	115	111-140	N/A		Large diameter white pine with small diameter red maple, some large diameter aspen. Scattered red pine.	
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Car	nopy Species	Density	Avg. Height	Size		
	Red Maple	20	Pole/Log	9	_	Red	d Maple	Medium	10 - 20 feet	Pole		
	Quaking Aspen	15	Log/Pole	12		E	Beech	Low	>20 feet	Sapling		
	White Pine	63	Log/XLog/Pole	16	115	Bal	lsam Fir	Medium	Variable	Sapling		
	Red Pine	2	Log/XLog	16		Blac	k Spruce	Low	10 - 20 feet	Sapling		
		· ·				Wh	nite Pine	Medium	Variable	Sapling		
2	429 - Mixed	Upland Cor	nifers Po	letimb	er Well	28.0	95	1-50	N/A		2021 - Stand is regenerating well to a mix of red maple, aspen, birch,	
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Car	nopy Species	Density	Avg. Height	Size	balsam and a component of white pine following a shelterwood harvest Thick regeneration throughout most of the stand. Slightly less dense	
	Red Maple	22	Log/Pole	10	95	Red	d Maple	High	5 - 10 feet	Sapling	where pockets of residual hemlock were retained from harvest. Large	
	White Pine	50	Log/XLog	16	95	B	Beech	Low	5 - 10 feet	Sapling	diameter WP retained, along with some maple, aspen and white birch	
	Hemlock	20	Log/Pole	10		Pap	ber Birch	Low	5 - 10 feet	Sapling	residual. Pockets of residual hemlock as well. Stand is two aged now, but will be managed for the new regeneration. Stand will convert to an	
	Paper Birch	5	Log/Pole	10		Bal	lsam Fir	Medium	Variable	Sapling	upland mixed deciduous stand with conifer.	
	Bigtooth Aspen	3	Log/Pole	11		Asp	en (spp.)	Medium	5 - 10 feet	Sapling		
				I						- ···		
						Chei	rry (spp.)	Low	Variable	Sapling	2011: Poor quality red maple, mature to overmature. Top dieback, crooked, etc. Mature aspen. Mature balsam which is showing signs o decline, mortality. Center of the stand (within the "loop" of the road) ha more advanced regeneration from the previous harvest. Good aspen	
3	500	- Water		Nonsto	cked	9.7		Low	Variable	Sapling	2011: Poor quality red maple, mature to overmature. Top dieback, crooked, etc. Mature aspen. Mature balsam which is showing signs o decline, mortality. Center of the stand (within the "loop" of the road) ha	
3	500 42200 - Nati				cked er Poor					Sapling	crooked, etc. Mature aspen. Mature balsam which is showing signs of decline, mortality. Center of the stand (within the "loop" of the road) ha more advanced regeneration from the previous harvest. Good aspen regen in those areas mixed with maple and birch. Bob Lake 2021 - Stand harvested in 2015 via shelterwood harvest. Good	
		ural White I		wtimbe		9.7 42.5	U	nspecified	No	Sapling	2011: Poor quality red maple, mature to overmature. Top dieback, crooked, etc. Mature aspen. Mature balsam which is showing signs of decline, mortality. Center of the stand (within the "loop" of the road) ha more advanced regeneration from the previous harvest. Good aspen regen in those areas mixed with maple and birch. Bob Lake 2021 - Stand harvested in 2015 via shelterwood harvest. Good regeneration of red maple mostly with beech, white pine and balsam.	
-	42200 - Nat	ural White I	Pine Sa	wtimbe	er Poor Age	9.7 42.5 Sub-Car	U 103	nspecified 51-80	No N/A		2011: Poor quality red maple, mature to overmature. Top dieback, crooked, etc. Mature aspen. Mature balsam which is showing signs of decline, mortality. Center of the stand (within the "loop" of the road) ha more advanced regeneration from the previous harvest. Good aspen regen in those areas mixed with maple and birch. Bob Lake 2021 - Stand harvested in 2015 via shelterwood harvest. Good regeneration of red maple mostly with beech, white pine and balsam. Pockets of aspen regen. Pockets of young balsam was retained after harvest, 3-4 inch dbh. Some open areas with white pine regen 6-12	
-	42200 - Nati Canopy Species	ural White I % Cover	Pine Sa Size Class	wtimbe DBH	er Poor Age	9.7 42.5 Sub-Car Rec	U 103 nopy Species	nspecified 51-80 Density	No N/A Avg. Height	Size	2011: Poor quality red maple, mature to overmature. Top dieback, crooked, etc. Mature aspen. Mature balsam which is showing signs o decline, mortality. Center of the stand (within the "loop" of the road) ha more advanced regeneration from the previous harvest. Good aspen regen in those areas mixed with maple and birch. Bob Lake 2021 - Stand harvested in 2015 via shelterwood harvest. Good regeneration of red maple mostly with beech, white pine and balsam. Pockets of aspen regen. Pockets of young balsam was retained after	
-	42200 - Nati Canopy Species White Pine	ural White I % Cover 85	Pine Sa Size Class XLog/Log/Pole	owtimbe DBH	er Poor Age	9.7 42.5 Sub-Car Rec Bal	U 103 mopy Species d Maple	nspecified 51-80 Density High	No N/A Avg. Height Variable	Size Sapling	 2011: Poor quality red maple, mature to overmature. Top dieback, crooked, etc. Mature aspen. Mature balsam which is showing signs or decline, mortality. Center of the stand (within the "loop" of the road) has more advanced regeneration from the previous harvest. Good aspen regen in those areas mixed with maple and birch. Bob Lake 2021 - Stand harvested in 2015 via shelterwood harvest. Good regeneration of red maple mostly with beech, white pine and balsam. Pockets of aspen regen. Pockets of young balsam was retained after harvest, 3-4 inch dbh. Some open areas with white pine regen 6-12 inches tall. Possibly look to remove the overstory in 10-20 years. 	
-	42200 - Nati Canopy Species White Pine Red Pine	ural White I % Cover 85 7	Pine Sa Size Class XLog/Log/Pole Log/Pole	DBH 18 14	er Poor Age	9.7 42.5 Sub-Car Rec Bal Blac	U 103 nopy Species d Maple Isam Fir	nspecified 51-80 Density High Medium	No N/A Avg. Height Variable Variable	Size Sapling Sapling	 2011: Poor quality red maple, mature to overmature. Top dieback, crooked, etc. Mature aspen. Mature balsam which is showing signs or decline, mortality. Center of the stand (within the "loop" of the road) has more advanced regeneration from the previous harvest. Good aspen regen in those areas mixed with maple and birch. Bob Lake 2021 - Stand harvested in 2015 via shelterwood harvest. Good regeneration of red maple mostly with beech, white pine and balsam. Pockets of aspen regen. Pockets of young balsam was retained after harvest, 3-4 inch dbh. Some open areas with white pine regen 6-12 inches tall. Possibly look to remove the overstory in 10-20 years. 	
-	42200 - Nati Canopy Species White Pine Red Pine Hemlock	ural White I % Cover 85 7 5	Pine Sa Size Class XLog/Log/Pole Log/Pole Log/Pole	DBH 18 14 10	er Poor Age	9.7 42.5 Sub-Car Rec Bal Blac Wh	U 103 m opy Species d Maple Isam Fir k Spruce	nspecified 51-80 Density High Medium Low	No N/A Avg. Height Variable Variable 5 - 10 feet	Size Sapling Sapling Sapling	2011: Poor quality red maple, mature to overmature. Top dieback, crooked, etc. Mature aspen. Mature balsam which is showing signs o decline, mortality. Center of the stand (within the "loop" of the road) ha more advanced regeneration from the previous harvest. Good aspen regen in those areas mixed with maple and birch. Bob Lake 2021 - Stand harvested in 2015 via shelterwood harvest. Good regeneration of red maple mostly with beech, white pine and balsam. Pockets of aspen regen. Pockets of young balsam was retained after harvest, 3-4 inch dbh. Some open areas with white pine regen 6-12 inches tall. Possibly look to remove the overstory in 10-20 years.	
-	42200 - Nati Canopy Species White Pine Red Pine Hemlock	ural White I % Cover 85 7 5	Pine Sa Size Class XLog/Log/Pole Log/Pole Log/Pole	DBH 18 14 10	er Poor Age	9.7 42.5 Sub-Car Rec Bal Blac Wh	U 103 nopy Species d Maple Isam Fir k Spruce nite Pine	51-80 Density High Medium Low Medium	No N/A Avg. Height Variable Variable 5 - 10 feet Variable	Size Sapling Sapling Sapling Sapling	 2011: Poor quality red maple, mature to overmature. Top dieback, crooked, etc. Mature aspen. Mature balsam which is showing signs o decline, mortality. Center of the stand (within the "loop" of the road) has more advanced regeneration from the previous harvest. Good aspen regen in those areas mixed with maple and birch. Bob Lake 2021 - Stand harvested in 2015 via shelterwood harvest. Good regeneration of red maple mostly with beech, white pine and balsam. Pockets of aspen regen. Pockets of young balsam was retained after harvest, 3-4 inch dbh. Some open areas with white pine regen 6-12 inches tall. Possibly look to remove the overstory in 10-20 years. 	
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4	42200 - National Action of the second	ural White I % Cover 85 7 5 3 wland Pine	Pine Sa Size Class XLog/Log/Pole Log/Pole Dole/Log	wtimbe DBH 18 14 10 9	er Poor Age 103	9.7 42.5 Sub-Car Bal Blac Wh E Bigtor 56.0 Sub-Car	U 103 nopy Species d Maple Isam Fir k Spruce nite Pine Beech oth Aspen 103	SI-80 Density High Medium Low Medium Low Medium	No N/A Avg. Height Variable Variable Variable Variable Variable Variable	Size Sapling Sapling Sapling Sapling Sapling Sapling	2011: Poor quality red maple, mature to overmature. Top dieback, crooked, etc. Mature aspen. Mature balsam which is showing signs o decline, mortality. Center of the stand (within the "loop" of the road) ha more advanced regeneration from the previous harvest. Good aspen regen in those areas mixed with maple and birch. Bob Lake 2021 - Stand harvested in 2015 via shelterwood harvest. Good regeneration of red maple mostly with beech, white pine and balsam. Pockets of aspen regen. Pockets of young balsam was retained after harvest, 3-4 inch dbh. Some open areas with white pine regen 6-12 inches tall. Possibly look to remove the overstory in 10-20 years. 2/24/2016: Cut in 2015 as part of Beaver Lake Hardwoods, 420251301 Large diameter white pine with smaller spruce, maple, scattered large	
4	42200 - Nati Canopy Species White Pine Red Pine Hemlock Red Maple 6127 - Lo Canopy Species	ural White I % Cover 85 5 3 owland Pine % Cover	Pine Sa Size Class XLog/Log/Pole Log/Pole Dole/Log	wtimbe DBH 18 14 10 9 9 awtimbe	er Poor Age 103	9.7 42.5 Sub-Car Rec Bal Blac Wh E Bigtoo 56.0 Sub-Car Rec	U 103 nopy Species d Maple Isam Fir k Spruce ite Pine Beech oth Aspen 103 nopy Species	SI-80 Density High Medium Low Medium Low Medium 81-110 Density	No N/A Avg. Height Variable Variable Variable Variable Variable Variable N/A Avg. Height	Size Sapling Sapling Sapling Sapling Sapling Sapling	2011: Poor quality red maple, mature to overmature. Top dieback, crooked, etc. Mature aspen. Mature balsam which is showing signs o decline, mortality. Center of the stand (within the "loop" of the road) ha more advanced regeneration from the previous harvest. Good aspen regen in those areas mixed with maple and birch. Bob Lake 2021 - Stand harvested in 2015 via shelterwood harvest. Good regeneration of red maple mostly with beech, white pine and balsam. Pockets of aspen regen. Pockets of young balsam was retained after harvest, 3-4 inch dbh. Some open areas with white pine regen 6-12 inches tall. Possibly look to remove the overstory in 10-20 years. 2/24/2016: Cut in 2015 as part of Beaver Lake Hardwoods, 420251301 Large diameter white pine with smaller spruce, maple, scattered large aspen. Pockets of hemlock. Much of the stand is lower ground, lower than adjacent stand to the south. Wet area and an intermittent drainage	
4	42200 - Nati Canopy Species White Pine Red Pine Hemlock Red Maple 6127 - Lo Canopy Species Red Maple	ural White I % Cover 85 5 3 owland Pine % Cover 25	Pine Sa Size Class XLog/Log/Pole Log/Pole Pole/Log	wtimbe DBH 18 14 10 9 9 wtimbe DBH 9 9 9	er Poor Age 103	9.7 42.5 Sub-Car Rec Bal Blac Wh E Bigtoo 56.0 Sub-Car Rec E	U 103 nopy Species d Maple Isam Fir k Spruce nite Pine Beech oth Aspen 103 nopy Species d Maple	nspecified 51-80 Density High Medium Low Medium Low Medium 81-110 Density Medium	No N/A Avg. Height Variable Variable Variable Variable Variable Variable N/A Avg. Height Variable	Size Sapling Sapling Sapling Sapling Sapling Sapling Sapling Sapling	2011: Poor quality red maple, mature to overmature. Top dieback, crooked, etc. Mature aspen. Mature balsam which is showing signs o decline, mortality. Center of the stand (within the "loop" of the road) ha more advanced regeneration from the previous harvest. Good aspen regen in those areas mixed with maple and birch. Bob Lake 2021 - Stand harvested in 2015 via shelterwood harvest. Good regeneration of red maple mostly with beech, white pine and balsam. Pockets of aspen regen. Pockets of young balsam was retained after harvest, 3-4 inch dbh. Some open areas with white pine regen 6-12 inches tall. Possibly look to remove the overstory in 10-20 years. 2/24/2016: Cut in 2015 as part of Beaver Lake Hardwoods, 420251301 Large diameter white pine with smaller spruce, maple, scattered large aspen. Pockets of hemlock. Much of the stand is lower ground, lower than adjacent stand to the south. Wet area and an intermittent drainage	
-	42200 - Nati Canopy Species White Pine Red Pine Hemlock Red Maple 6127 - Lo Canopy Species Red Maple White Spruce	ural White I % Cover 85 7 5 3 0 0 0 0 0 0 0 0 0 0 0 0 0	Pine Sa Size Class XLog/Log/Pole Log/Pole Dole/Log Size Class Pole/Log Pole/Log	wtimbe DBH 18 14 10 9 9 wtimbe DBH 9 9 9	er Poor Age 103 er Well Age	9.7 42.5 Sub-Car Rec Bal Blac Wh E Bigtor 56.0 Sub-Car Rec E Pap	U 103 nopy Species d Maple Isam Fir k Spruce hite Pine Beech oth Aspen 103 nopy Species d Maple Beech	nspecified 51-80 Density High Medium Low Medium Low Medium 81-110 Density Medium 41-110	No N/A Avg. Height Variable Variable Variable Variable Variable Variable Variable Variable S - 10 feet	Size Sapling Sapling Sapling Sapling Sapling Sapling Sapling Sapling Sapling	2011: Poor quality red maple, mature to overmature. Top dieback, crooked, etc. Mature aspen. Mature balsam which is showing signs o decline, mortality. Center of the stand (within the "loop" of the road) ha more advanced regeneration from the previous harvest. Good aspen regen in those areas mixed with maple and birch. Bob Lake 2021 - Stand harvested in 2015 via shelterwood harvest. Good regeneration of red maple mostly with beech, white pine and balsam. Pockets of aspen regen. Pockets of young balsam was retained after harvest, 3-4 inch dbh. Some open areas with white pine regen 6-12 inches tall. Possibly look to remove the overstory in 10-20 years. 2/24/2016: Cut in 2015 as part of Beaver Lake Hardwoods, 420251301 Large diameter white pine with smaller spruce, maple, scattered large aspen. Pockets of hemlock. Much of the stand is lower ground, lower than adjacent stand to the south. Wet area and an intermittent drainage	

Report 7 – Stands

A DN

tand	d Level 4 C	over Type	s	ize Der	sity	Acres Stand Age BA	A Range	Managed S	ite	General Comments
6	500 -	- Water		Nonstoo	ked	4.9 Un	nspecified	No		Lake was full of water in July 2021.
7	42260 - Natural Pi	ne, Mixed E	Deciduous Sa	awtimbe	r Well	33.5 122 1	141-170	N/A		White pine ridge with aspen. Aspen is mature and showing signs of
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	decline. Component of red pine, white birch and some maple. Some slopes but manageable for harvest. Western half of stand has more
	Red Maple	2	Pole	8		Red Maple	Low	10 - 20 feet	Sapling	aspen and eastern half is more of a solid pine stand. Based on the
	Paper Birch	5	Pole/Log	10		Balsam Fir	Full	Variable	Sapling	results from the harvest in stand 58 (TNC harvest prior to land trade),
	Bigtooth Aspen	23	Log/Pole	11		White Pine	Low	Variable	Sapling	good diverse regen could result from a harvest in this stand
	White Pine	58	Log/XLog/Pole	14	122					
	Red Pine	10	Log/XLog	14						
	Red Oak	2	Log/Pole	12						
8	500 -	- Water		Nonstoo	ked	3.1 Un	nspecified	No		
9	429 - Mixed L	Jpland Con	ifers Sa	awtimbe		77.7 94	1-50	N/A		2021 - Stand is regenerating very well with maple, aspen, cherry, balsarr → white birch, white pine. Very thick understory of new regeneration.
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	Residual large diameter white pine, pole and log size red maple, residual
	White Pine	50	XLog/Log	18	94	Aspen (spp.)	High	Variable	Sapling	log size aspen, pockets of hemlock, and a few yellow birch residual.
	Red Maple	25	Log/Pole							log size aspen, pockets of hermock, and a few yellow birch residual.
	Quaking Aspen	6		12		Red Maple	High	Variable	Sapling	Stand is currently two aged, but will convert to a mixed upland stand
			Log/Pole	12		Red Maple Cherry (spp.)	High Medium	Variable Variable	Sapling Sapling	Stand is currently two aged, but will convert to a mixed upland stand when the regeneration reaches the canopy.
	Red Pine	2	Log/Pole Log/Pole	12 16		Cherry (spp.) Balsam Fir		Variable Variable		Stand is currently two aged, but will convert to a mixed upland stand when the regeneration reaches the canopy. 2016: Sale completed. 42-026-13-01, Mosquito Melee Hardwoods. TCF
	Red Pine Hemlock		-	12		Cherry (spp.)	Medium	Variable	Sapling	Stand is currently two aged, but will convert to a mixed upland stand when the regeneration reaches the canopy.
		2	Log/Pole	12 16		Cherry (spp.) Balsam Fir	Medium Low	Variable Variable	Sapling Sapling	Stand is currently two aged, but will convert to a mixed upland stand when the regeneration reaches the canopy. 2016: Sale completed. 42-026-13-01, Mosquito Melee Hardwoods. TCR 10/06/2015.
	Hemlock	2 15	Log/Pole Log/Pole	12 16 12		Cherry (spp.) Balsam Fir White Pine	Medium Low Low	Variable Variable 5 - 10 feet	Sapling Sapling Sapling	 Stand is currently two aged, but will convert to a mixed upland stand when the regeneration reaches the canopy. 2016: Sale completed. 42-026-13-01, Mosquito Melee Hardwoods. TCF 10/06/2015. Low quality red maple with large diameter white pine and aspen. Component of red pine as well. Poor form to much of the maple. Aspen
	Hemlock	2 15	Log/Pole Log/Pole	12 16 12		Cherry (spp.) Balsam Fir White Pine White Spruce	Medium Low Low Low	Variable Variable 5 - 10 feet 5 - 10 feet	Sapling Sapling Sapling Sapling	 Stand is currently two aged, but will convert to a mixed upland stand when the regeneration reaches the canopy. 2016: Sale completed. 42-026-13-01, Mosquito Melee Hardwoods. TCF 10/06/2015. Low quality red maple with large diameter white pine and aspen. Component of red pine as well. Poor form to much of the maple. Asper
10	Hemlock Yellow Birch 4319 - Mixed	2 15 2	Log/Pole Log/Pole Log/Pole	12 16 12 12 12		Cherry (spp.) Balsam Fir White Pine White Spruce Beech n 8.8 51	Medium Low Low Medium	Variable Variable 5 - 10 feet 5 - 10 feet Variable N/A	Sapling Sapling Sapling Sapling Sapling	 Stand is currently two aged, but will convert to a mixed upland stand when the regeneration reaches the canopy. 2016: Sale completed. 42-026-13-01, Mosquito Melee Hardwoods. TCF 10/06/2015. Low quality red maple with large diameter white pine and aspen. Component of red pine as well. Poor form to much of the maple. Aspen is dying out. Hemlock pockets. Better timber and large diameters in the western half of the stand. Dieback in some of the maple, bark beetle in some of red pine, aspen is declining and showing mortality.
10	Hemlock Yellow Birch 4319 - Mixed Canopy Species	2 15 2 Upland Fo % Cover	Log/Pole Log/Pole Log/Pole	12 16 12 12 12 etimber		Cherry (spp.) Balsam Fir White Pine White Spruce Beech n 8.8 51 Sub-Canopy Species	Medium Low Low Medium 1-50 Density	Variable Variable 5 - 10 feet Variable N/A Avg. Height	Sapling Sapling Sapling Sapling Sapling	 Stand is currently two aged, but will convert to a mixed upland stand when the regeneration reaches the canopy. 2016: Sale completed. 42-026-13-01, Mosquito Melee Hardwoods. TCF 10/06/2015. Low quality red maple with large diameter white pine and aspen. Component of red pine as well. Poor form to much of the maple. Aspen is dying out. Hemlock pockets. Better timber and large diameters in the western half of the stand. Dieback in some of the maple, bark beetle in some of red pine, aspen is declining and showing mortality. Open area filling in with mainly spruce, along with balsam, cherry, maple
10	Hemlock Yellow Birch 4319 - Mixed Canopy Species Red Maple	2 15 2 I Upland Fo % Cover 20	Log/Pole Log/Pole Log/Pole Size Class Pole/Sapling	12 16 12 12 12		Cherry (spp.) Balsam Fir White Pine White Spruce Beech n 8.8 51 Sub-Canopy Species Balsam Fir	Medium Low Low Medium 1-50 Density Medium	Variable Variable 5 - 10 feet Variable N/A Avg. Height 5 - 10 feet	Sapling Sapling Sapling Sapling Sapling Sapling	 Stand is currently two aged, but will convert to a mixed upland stand when the regeneration reaches the canopy. 2016: Sale completed. 42-026-13-01, Mosquito Melee Hardwoods. TCF 10/06/2015. Low quality red maple with large diameter white pine and aspen. Component of red pine as well. Poor form to much of the maple. Aspen is dying out. Hemlock pockets. Better timber and large diameters in the western half of the stand. Dieback in some of the maple, bark beetle in some of red pine, aspen is declining and showing mortality. Open area filling in with mainly spruce, along with balsam, cherry, maple
10	Hemlock Yellow Birch 4319 - Mixed Canopy Species Red Maple Quaking Aspen	2 15 2 10 10 2 10 10 10 10 10 10 10 10 10 10 10 10 10	Log/Pole Log/Pole Log/Pole orest Pole Size Class Pole/Sapling Pole/Sapling	12 16 12 12 12		Cherry (spp.) Balsam Fir White Pine White Spruce Beech n 8.8 51 Sub-Canopy Species Balsam Fir White Pine	Medium Low Low Medium 1-50 Density Medium Low	Variable Variable 5 - 10 feet Variable N/A Avg. Height 5 - 10 feet Variable	Sapling Sapling Sapling Sapling Sapling Sapling Sapling Sapling	 Stand is currently two aged, but will convert to a mixed upland stand when the regeneration reaches the canopy. 2016: Sale completed. 42-026-13-01, Mosquito Melee Hardwoods. TCF 10/06/2015. Low quality red maple with large diameter white pine and aspen. Component of red pine as well. Poor form to much of the maple. Asper is dying out. Hemlock pockets. Better timber and large diameters in the western half of the stand. Dieback in some of the maple, bark beetle in some of red pine, aspen is declining and showing mortality. Open area filling in with mainly spruce, along with balsam, cherry, maple
10	Hemlock Yellow Birch 4319 - Mixed Canopy Species Red Maple Quaking Aspen Balsam Fir	2 15 2 10 2 10 10 10 10 10 10 10 10 10 10 10 10 10	Log/Pole Log/Pole Log/Pole Direst Pole Size Class Pole/Sapling Pole/Sapling Pole/Sapling	12 16 12 12 12 etimber DBH 5 6 6	Age	Cherry (spp.) Balsam Fir White Pine White Spruce Beech n 8.8 51 Sub-Canopy Species Balsam Fir	Medium Low Low Medium 1-50 Density Medium	Variable Variable 5 - 10 feet Variable N/A Avg. Height 5 - 10 feet	Sapling Sapling Sapling Sapling Sapling Sapling	 Stand is currently two aged, but will convert to a mixed upland stand when the regeneration reaches the canopy. 2016: Sale completed. 42-026-13-01, Mosquito Melee Hardwoods. TCF 10/06/2015. Low quality red maple with large diameter white pine and aspen. Component of red pine as well. Poor form to much of the maple. Aspen is dying out. Hemlock pockets. Better timber and large diameters in the western half of the stand. Dieback in some of the maple, bark beetle in some of red pine, aspen is declining and showing mortality. Open area filling in with mainly spruce, along with balsam, cherry, maple
10	Hemlock Yellow Birch 4319 - Mixed Canopy Species Red Maple Quaking Aspen	2 15 2 10 10 2 10 10 10 10 10 10 10 10 10 10 10 10 10	Log/Pole Log/Pole Log/Pole orest Pole Size Class Pole/Sapling Pole/Sapling	12 16 12 12 12		Cherry (spp.) Balsam Fir White Pine White Spruce Beech n 8.8 51 Sub-Canopy Species Balsam Fir White Pine	Medium Low Low Medium 1-50 Density Medium Low	Variable Variable 5 - 10 feet Variable N/A Avg. Height 5 - 10 feet Variable	Sapling Sapling Sapling Sapling Sapling Sapling Sapling Sapling	 Stand is currently two aged, but will convert to a mixed upland stand when the regeneration reaches the canopy. 2016: Sale completed. 42-026-13-01, Mosquito Melee Hardwoods. TCF 10/06/2015. Low quality red maple with large diameter white pine and aspen. Component of red pine as well. Poor form to much of the maple. Asper is dying out. Hemlock pockets. Better timber and large diameters in the western half of the stand. Dieback in some of the maple, bark beetle in some of red pine, aspen is declining and showing mortality. Open area filling in with mainly spruce, along with balsam, cherry, maple

Report 7 – Stands



tanc	Level 4 Cover Type Size Density		Acres Stand Age BA Range					General Comments			
11	42290 - Natu	ıral Mixed I	Pine Saw	/timbe	r Mediur	m 87.6	92	81-110	N/A		Large diameter white pine and red pine over thick regeneration of aspe maple, balsam, white pine and spruce. Multiple cuts done over a numb
	Canopy Species	% Cover	Size Class	DBH	I Age	Sub-Car	nopy Species	Density	Avg. Height	Size	of years within the stand. Different cut types over the stand area as we
	White Pine	55	Log/XLog/Pole	16	92	Red	d Maple	Medium	10 - 20 feet	Sapling	Very mixed stand with lots of aspen reaching pole size. A few small low
	Red Pine	30	XLog/Log	15		Pap	er Birch	Low	>20 feet	Sapling	areas within the stand. Potential harvest next entry year.
	Jack Pine	5	Pole	9		Bal	sam Fir	Medium	Variable	Sapling	
	Bigtooth Aspen	10	Pole/Sapling	6		Blac	k Spruce	Low	10 - 20 feet	Sapling	
		1 1				Aspe	en (spp.)	High	>20 feet	Sapling	
2	6224 - 1	Freed Bog		Nonsto	ocked	21.5	U	nspecified	No		
3	4319 - Mixed	Upland Fo	orest s	Sapling	g Well	19.7	40	1-50	N/A		2021 - Old notes state that stand was cut as sale #05-81 - salvage cut.
	Canopy Species	% Cover	Size Class	DBH	I Age	Sub-Car	nopy Species	Density	Avg. Height	Size	Mixed stand, moving into pole size. Thick in areas. Some cedar along the edge of drainage. Good white birch regeneration.
	Red Maple	25	Sapling/Pole	4			d Maple	Medium	Variable	Sapling	the case of dramaye. Good write birdi regeneration.
	Paper Birch	10	Sapling/Pole	4		Bal	sam Fir	Medium	Variable	Sapling	
	Quaking Aspen	10	Sapling	3		Pap	er Birch	Medium	Variable	Sapling	
	Balsam Fir	33	Sapling/Pole	4	40	Whit	e Spruce	Low	Variable	Sapling	
											1
	White Spruce	15	Sapling	3							
	White Spruce White Pine	15 7		3 7							
14	White Pine		Sapling Pole/Sap/Log	7	ber Well	44.3	105	51-80	N/A		Lowland spruce stand.
4	White Pine	7 ack Spruce	Sapling Pole/Sap/Log	7 oletimb	ber Well		105 10py Species	51-80 Density	N/A Avg. Height	Size	Lowland spruce stand.
4	White Pine 6122 - Bla	7 ack Spruce	Sapling Pole/Sap/Log	7 oletimb		Sub-Car				Size Sapling	Lowland spruce stand.
4	White Pine 6122 - Bla Canopy Species	7 ack Spruce % Cover	Sapling Pole/Sap/Log e Po Size Class	7 oletimb DBH		Sub-Car Blac	nopy Species	Density	Avg. Height		Lowland spruce stand.
4	White Pine 6122 - Bla Canopy Species Red Maple	7 ack Spruce % Cover 2	Sapling Pole/Sap/Log e Pole Size Class Pole	7 oletimb DBH 8		Sub-Car Blac Northern	nopy Species k Spruce	Density Medium	Avg. Height 5 - 10 feet	Sapling	
	White Pine 6122 - Bla Canopy Species Red Maple Paper Birch	7 ack Spruce % Cover 2 2 2	Sapling Pole/Sap/Log e Pole Size Class Pole Pole	7 oletimb DBH 8 7	I Age	Sub-Car Blac Northern	k Spruce White Cedar	DensityMediumMedium	Avg. Height 5 - 10 feet < 5 feet	Sapling Sapling	
	White Pine 6122 - Bla Canopy Species Red Maple Paper Birch Black Spruce	7 ack Spruce % Cover 2 2 61	Sapling Pole/Sap/Log e Pole Size Class Pole Pole Pole	7 Detimb DBH 8 7 8	I Age	Sub-Car Blac Northern	k Spruce White Cedar	DensityMediumMedium	Avg. Height 5 - 10 feet < 5 feet	Sapling Sapling	
	White Pine 6122 - Bla Canopy Species Red Maple Paper Birch Black Spruce orthern White Cedar	7 ack Spruce 2 2 61 10	Sapling Pole/Sap/Log e Pole Size Class Pole Pole Pole Pole	7 Detime DBH 8 7 8 8 8 8 8 8 8 8 8 8	I Age	Sub-Car Blac Northern	k Spruce White Cedar	DensityMediumMedium	Avg. Height 5 - 10 feet < 5 feet	Sapling Sapling	
	White Pine 6122 - Bla Canopy Species Red Maple Paper Birch Black Spruce orthern White Cedar Tamarack	7 ack Spruce 2 2 61 10 13	Sapling Pole/Sap/Log Size Class Pole Pole Pole Pole Pole	7 Deletime DBH 8 7 8 8 7 8 7	I Age	Sub-Car Blac Northern	k Spruce White Cedar	DensityMediumMedium	Avg. Height 5 - 10 feet < 5 feet	Sapling Sapling	
	White Pine 6122 - Bla Canopy Species Red Maple Paper Birch Black Spruce orthern White Cedar Tamarack White Pine	7 ack Spruce 2 2 61 10 13 10 2	Sapling Pole/Sap/Log Pole/Sap/Log Size Class Pole Pole Pole Pole Pole Pole Pole Pole Pole	7 Deletime DBH 8 7 8 7 8 7 10	1 Age 105	Sub-Car Blac Northern	hopy Species k Spruce White Cedar marack	DensityMediumMedium	Avg. Height 5 - 10 feet < 5 feet	Sapling Sapling	
No	White Pine 6122 - Bla Canopy Species Red Maple Paper Birch Black Spruce orthern White Cedar Tamarack White Pine Red Pine	7 ack Spruce 2 2 61 10 13 10 2	Sapling Pole/Sap/Log Pole/Sap/Log Size Class Pole Pole Pole Pole Pole Pole Pole Pole Pole	7 DBH 8 7 8 7 8 7 10 9	1 Age 105	Sub-Car Blac Northern Tar 32.7	hopy Species k Spruce White Cedar marack	Density Medium Medium Low	Avg. Height 5 - 10 feet < 5 feet Variable	Sapling Sapling	
No	White Pine 6122 - Bla Canopy Species Red Maple Paper Birch Black Spruce orthern White Cedar Tamarack White Pine Red Pine	7 ack Spruce 2 2 61 10 13 10 2	Sapling Pole/Sap/Log Pole/Sap/Log Size Class Pole Pole Pole Pole Pole Pole Pole Pole Pole	7 DBH 8 7 8 7 8 7 10 9	1 Age 105	Sub-Car Blac Northern Tar 32.7 Sub-Car	hopy Species k Spruce White Cedar marack	Density Medium Low	Avg. Height 5 - 10 feet < 5 feet Variable No	Sapling Sapling Tall Shrub	
Nc	White Pine 6122 - Bla Canopy Species Red Maple Paper Birch Black Spruce orthern White Cedar Tamarack White Pine Red Pine	7 ack Spruce 2 2 61 10 13 10 2	Sapling Pole/Sap/Log Pole/Sap/Log Size Class Pole Pole Pole Pole Pole Pole Pole Pole Pole	7 DBH 8 7 8 7 8 7 10 9	1 Age 105	Sub-Car Black Northern Tar 32.7 Sub-Car Black	hopy Species k Spruce White Cedar marack U topy Species	Density Medium Low	Avg. Height 5 - 10 feet < 5 feet Variable No	Sapling Sapling Tall Shrub	North Branch Two Hearted River corridor and feeder stream.
No	White Pine 6122 - Bla Canopy Species Red Maple Paper Birch Black Spruce orthern White Cedar Tamarack White Pine Red Pine 6229 - Mixed	7 ack Spruce 2 2 61 10 13 10 2	Sapling Pole/Sap/Log Size Class Pole Pole Pole Pole Pole Pole Pole Pole Pole Pole	7 DBH 8 7 8 7 8 7 10 9	1 Age	Sub-Car Black Northern Tar 32.7 Sub-Car Black	hopy Species k Spruce White Cedar marack Unopy Species k Spruce g Alder	Density Medium Low nspecified Density Low	Avg. Height 5 - 10 feet < 5 feet Variable No	Sapling Sapling Tall Shrub Size Sapling	North Branch Two Hearted River corridor and feeder stream.
No.	White Pine 6122 - Bla Canopy Species Red Maple Paper Birch Black Spruce orthern White Cedar Tamarack White Pine Red Pine 6229 - Mixed	7 ack Spruce 2 2 61 10 13 10 2	Sapling Pole/Sap/Log Size Class Pole Pole Pole Pole Pole Pole Pole Pole Pole Pole	7 Detime DBH 8 7 8 7 10 9	1 Age	Sub-Car Black Northern Tar 32.7 Sub-Car Black Tar 9.4	hopy Species k Spruce White Cedar marack Unopy Species k Spruce g Alder	Density Medium Medium Low nspecified Density Low High	Avg. Height 5 - 10 feet < 5 feet Variable No Avg. Height	Sapling Sapling Tall Shrub Size Sapling	North Branch Two Hearted River corridor and feeder stream.
No 5	White Pine 6122 - Bla Canopy Species Red Maple Paper Birch Black Spruce orthern White Cedar Tamarack White Pine Red Pine 6229 - Mixed	7 ack Spruce 2 2 61 10 13 10 2	Sapling Pole/Sap/Log Size Class Pole Pole Pole Pole Pole Pole Pole Pole Pole Pole	7 Detime DBH 8 7 8 7 10 9	1 Age	Sub-Car Blac Northern Tar 32.7 Sub-Car Blac Tar 9.4 Sub-Car	hopy Species k Spruce White Cedar marack Un hopy Species k Spruce g Alder Un	Density Medium Low Density Low High	Avg. Height 5 - 10 feet < 5 feet Variable No Avg. Height	Sapling Sapling Tall Shrub Size Sapling Tall Shrub	North Branch Two Hearted River corridor and feeder stream.
No	White Pine 6122 - Bla Canopy Species Red Maple Paper Birch Black Spruce orthern White Cedar Tamarack White Pine Red Pine 6229 - Mixed	7 ack Spruce 2 2 61 10 13 10 2	Sapling Pole/Sap/Log Size Class Pole Pole Pole Pole Pole Pole Pole Pole Pole Pole	7 Detime DBH 8 7 8 7 10 9	1 Age	Sub-Car Blac Northern Tar 32.7 Sub-Car Blac Tar 9.4 Sub-Car Tar	hopy Species k Spruce White Cedar marack U U hopy Species k Spruce g Alder U hopy Species	Density Medium Low Density Low High nspecified Density	Avg. Height 5 - 10 feet < 5 feet Variable No Avg. Height	Sapling Sapling Tall Shrub Size Sapling Tall Shrub	North Branch Two Hearted River corridor and feeder stream.

Report 7 – Stands

DNR MICHIGAN

Stand	Level 4 C	over Type		Size De	nsity	Acres	Stand Age	BA Range	Managed S	Site	General Comments
17	4119 - Mixed No		dwoods	Sawtimb	er Well	15.0	80	81-110	N/A		Low quality red maple with beech, yellow birch, and some cherry. Large
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	s Density	Avg. Height	Size	diameter white pine throughout. Scattered large diameter spruce. Higher conifer component in the eastern portion of the stand. Beech is
	Red Maple	71	Log/Pole		80		d Maple	Medium	10 - 20 feet	Sapling	bad shape, lots of mortality.
	Beech	5	Pole/Log	10		I	Beech	Medium	Variable	Sapling	
	White Spruce	5	Pole	9		Ba	lsam Fir	Medium	Variable	Sapling	
	White Pine	10	Log/XLog	15		Whi	te Spruce	Low	< 5 feet	Sapling	
	Black Cherry	2	Pole	9		Yel	ow Birch	Low	Variable	Sapling	
	Yellow Birch	7	Log/Pole	10							1
18	500	- Water		Nonsto	cked	2.8		Unspecified	No		Small pond/lake with leatherleaf edge. Full of water in 2021. Dead whit pine along edges due to high water level
19	42200 - Nati	ural White F	Pine	Sawtimb	er Well	10.5	111	111-140	N/A		Isolated white pine ridge with a mix of other species. Stand 58 was
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	s Density	Avg. Height	Size	harvested by TNC prior to the land trade. Access could be through this stand now.
	Red Maple	5	Pole	6		Re	d Maple	Low	Variable	Sapling	
	Paper Birch	5	Pole	8		Ва	lsam Fir	Low	Variable	Sapling	
	Balsam Fir	2	Pole	6		Blac	k Spruce	Low	10 - 20 feet	Sapling	
	Black Spruce	2	Pole	6							-
Noi	rthern White Cedar	5	Pole	7							
	White Pine	10	Pole	8							
	White Pine	66	Log/XLog	15	111						
	Red Pine	5	Log/XLog	14							
20	6129 - Mixed Conif	erous Lowla	and Forest	Poletimb	er Well	25.7	100	81-110	N/A		northern 2/3 of stand were acquired in 2018 as TNC trade
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	B Density	Avg. Height	Size	
	Black Spruce	35	Pole	8	100	Ва	Isam Fir	Medium	Variable	Sapling	
Noi	rthern White Cedar	30	Pole	8		Blac	k Spruce	Low	5 - 10 feet	Sapling	
	Tamarack	20	Pole	8		Ta	ig Alder	Medium	5 - 10 feet	Tall Shrub	
	White Pine	15	Log/Pole	12						1	-
21	4112 - Maple, Beed	ch, Cherry A	ssociation	Sawtimb	er Well	98.7	95	81-110	N/A		2021 - Good regeneration filling in. Maple, cherry, beech, yellow birch
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	s Density	Avg. Height	Size	regen, all 5-15 ft tall. Very thick stand to walk through. Some areas of open canopy have
	Sugar Maple	20	Log/Pole	12		Re	d Maple	Medium	Variable	Sapling	raspberry and blackberry. Road through the stand still hasn't completely
	Red Maple	65	Log/Pole	12	95	Yel	ow Birch	Low	Variable	Sapling	healed from the sale activity.
	Yellow Birch	2	Pole	9		I	Beech	High	Variable	Sapling	2016: sale completed. 42-026-13-01. Mosquito Melee Hardwoods. TCI
	Beech	2	Log/Pole	12		Ba	lsam Fir	Low	Variable	Sapling	10/06/2015
	White Pine	6	Log/XLog	16		Н	emlock	Low	< 5 feet	Sapling	1
	Hemlock	5	Log/Pole			Blac	k Cherry	Medium	Variable	Sapling	old notes prior to harvest - Red maple and beech with sugar maple and yellow birch. Balsam and super canopy white pine. Large diameters in
											the maple with alot of large pulp quality trees. Beech is mostly dead or dying (BBD) Pockets of lower basal areas - mortality or smaller diameters. Top dieback on some of the larger maple. Understory is mostly beech with some maple.

	Ne	wberry Mg	gt. Unit				Rep	oort 7 – Sta	inds		Compartment: 21 Year of Entry: 2023
Stanc	Level 4 C	over Type	:	Size De	nsity	Acres	Stand Age	BA Range	Managed S	Site	General Comments
22	6122 - B	lack Spruce	e P	oletimb	er Well	25.8	65	1-50	N/A		West portion (1/3) of stand was acquired in TNC trade.
23	6120 - Lo	wland Ced	ar P	oletimb	er Well	8.8	130 l	Jnspecified	N/A		Lowland cedar and mixed conifers along the North Branch Two Hearted
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	River. Thick understory. Cedar regen present.
	Red Maple	5	Pole	8		Ba	lsam Fir	Medium	Variable	Sapling	
	Black Spruce	10	Pole	8		Blac	ck Spruce	Low	5 - 10 feet	Sapling	
No	rthern White Cedar	70	Pole	8	130	Northerr	n White Cedar	Medium	5 - 10 feet	Sapling	
	Tamarack	15	Pole	8		Ta	ag Alder	Medium	Variable	Tall Shrub	
24	42200 - Nati	ural White	Pine S	Sawtimb	er Well	77.6	120	81-110	N/A		Combination of two old stands. W9. Large diameter white pine with red
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	pine and components of merchantable red maple, aspen, white birch, spruce, balsam, and a trace of hemlock. South half of the stand has
	Red Maple	5	Pole	9		Re	d Maple	Medium	Variable	Sapling	more of a range of species while the northern half is more white pine wit
	Bigtooth Aspen	5	Pole/Log	10		Ba	lsam Fir	Medium	Variable	Sapling	red pine. Merchantable white birch is declining. Areas of good advance
	Balsam Fir	5	Pole/Sapling	8		Blac	ck Spruce	Low	< 5 feet	Sapling	regen of multiple species.
	White Pine	65	Log/XLog/Pole	e 16	120	W	nite Pine	Low	5 - 10 feet	Sapling	
	Red Pine	18	Log/XLog	15		Bigto	oth Aspen	Medium	>20 feet	Sapling	
	Paper Birch	2	Pole	9						·	-
25	6229 - Mixeo	d lowland s	hrub	Nonsto	cked	10.6	ι	Jnspecified	No		North Branch Two Hearted River corridor
					[Sub-Ca	nopy Species	5 Density	Avg. Height	Size	
						Ta	ag Alder	High		Tall Shrub	- 2
					[Blac	ck Spruce	Low		Sapling	
26	4136 - Asper	n, Mixed Co	onifer	Sapling	Well	9.5	37	1-50	N/A		2021 - Stand is beginning to transition to a pole size stand.
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	Stand harvested as sale #79-84. Final harvest. Old notes say that the
	Red Maple	10	Sapling	3		Re	d Maple	Medium	5 - 10 feet	Sapling	stand was a white pine type prior to harvest. Nice young aspen stand
	Quaking Aspen	70	Sapling/Pole	4	37	Ba	lsam Fir	Low	5 - 10 feet	Sapling	with balsam, white pine, and red maple.
	Balsam Fir	5	Sapling/Pole	4		W	nite Pine	Medium	Variable	Sapling	
	Black Spruce	5	Sapling	3							-
	White Pine	10	Log/Pole	10							
27	42110 - Pla	inted Red F	Pine Sa	wtimber	Mediur	m 8.0	89	81-110	N/A		2021 - Large diameter RP with a component of WP. Was planted 1934
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	Subcanopy of aspen and maple with some white pine following the most recent thinning. Stand is ready for final harvest.
	White Pine	20	Log/XLog	16	[Re	ed Maple	Low	Variable	Sapling	
	Red Pine	80	Log/Pole/XLog	g 16	89	Blac	ck Spruce	Low	Variable	Sapling	R9 stand. Large diameter red pine with good component of aspen and white pine. Some jack pine. Trace of white birch. Aspen is mature,
						W	nite Pine	Medium	Variable	Sapling	large diameter. Jack pine is mature. Stand was planted in the fall of
						Asp	en (spp.)	Medium	5 - 10 feet	Sapling	1934 (2-0 RP & JP) and in the spring of 1962 (3-0 RP).
											(2015) Stand was treated with TSale #420201301 "Blood Donor Pine" TCR 12/30/15.

Report 7 – Stands

DNR DNR	
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Stand	d Level 4 Co	ver Type	S	Size Der	nsity	Acres	Stand Age B	A Range	Managed S	ite	General Comments
28	42220 - Natu		ine Po	oletimbe	er Well	13.7	36	51-80	N/A		Young jack pine. Harvested in 1983 as sale #40-83. FTP #42-177 -
-	Canopy Species	% Cover	Size Class	DBH	Aae	Sub-Can	opy Species	Density	Avg. Height	Size	scarified in 1984. Mixed stand with white pine, aspen, red pine, maple and small spruce. Some of the jack pine is 7 inches and 2-3 sticks
	Red Maple	5	Sapling	4			Spruce	Low	5 - 10 feet	Sapling	merchantable currently. Bracken fern and blueberry ground cover.
	Quaking Aspen	10	Sapling	4		Whi	te Pine	Low	Variable	Sapling	
	White Pine	20	Pole/Sapling	5		Aspe	n (spp.)	Low	Variable	Sapling	
	Red Pine	5	Pole	8			Maple	Low	Variable	Sapling	
	Jack Pine	60	Pole/Sapling	6	36						1
29	4119 - Mixed Nor	rthern Harc	lwoods Sa	apling N	edium	3.6	6 1	mmature	N/A		2021 - Good regen of maple (stump sprouts), with aspen, white pine,
	Canopy Species	% Cover	Size Class	DBH	Age						cherry. Residual white pine. 2016: Sale Completed. 42-026-13-01, Mosquito Melee Hardwoods.
	Red Maple	50	Sapling	1	6						TCR 10/06/2015.
	White Pine	15	Sapling	1							
	Bigtooth Aspen	15	Sapling	1							
	Black Cherry	20	Sapling	1							
30	42200 - Natu	ral White P	Pine Sa	awtimbe	er Well	41.8	130	81-110	N/A		White pine with red pine and some spruce. Ridges around small lakes
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Can	opy Species	Density	Avg. Height	Size	White pine ranges from 8 inch dbh to 20 inch dbh. Component of large diameter aspen and pole size red maple. Cedar along stand edges.
	Black Spruce	2	Pole	8		Red	Maple	Medium	Variable	Sapling	
	White Pine	83	Log/XLog/Pole	16	130	Bals	am Fir	Low	Variable	Sapling	
	Red Pine	10	Log/Pole	14		Black	Spruce	Medium	Variable	Sapling	
	Bigtooth Aspen	5	Log/Pole	12		Whi	te Pine	Medium	>20 feet	Sapling	
31	6122 Blo										
31	0122 - Dia	ack Spruce	Po	oletimbe	er Well	31.7	100	81-110	N/A		
51	Canopy Species		Po Size Class	oletimbe DBH		-	100 opy Species	81-110 Density	N/A Avg. Height	Size	
51						Sub-Can				Size Sapling	
51	Canopy Species	% Cover	Size Class	DBH		Sub-Can Red	opy Species	Density	Avg. Height		
	Canopy Species Red Maple	% Cover 5	Size Class Pole	DBH 8	Age	Sub-Can Red Bals	opy Species Maple	Density Low	Avg. Height 5 - 10 feet	Sapling	
	Canopy Species Red Maple Black Spruce	% Cover 5 75	Size Class Pole Pole	DBH 8 8	Age	Sub-Can Red Bals	opy Species Maple am Fir	Density Low Medium	Avg. Height 5 - 10 feet Variable	Sapling Sapling	
No	Canopy Species Red Maple Black Spruce orthern White Cedar	% Cover 5 75 10 10	Size Class Pole Pole Pole Log/Pole	DBH 8 8 8 8 8	Age	Sub-Can Red Bals	opy Species Maple am Fir	Density Low Medium	Avg. Height 5 - 10 feet Variable	Sapling Sapling	Young mixed northern hardwoods stand. Cut in 1983 as sale #40-83.
No	Canopy Species Red Maple Black Spruce orthern White Cedar White Pine	% Cover 5 75 10 10 n, Cherry A	Size Class Pole Pole Pole Log/Pole	DBH 8 8 12	Age 100 Well	Sub-Can Red Bals Black	Maple am Fir Spruce	DensityLowMediumMedium	Avg. Height 5 - 10 feet Variable 5 - 10 feet	Sapling Sapling	Red maple and cherry clumps. White pine, spruce, aspen and a trace
No	Canopy Species Red Maple Black Spruce orthern White Cedar White Pine 4112 - Maple, Beech	% Cover 5 75 10 10 n, Cherry A	Size Class Pole Pole Log/Pole	DBH 8 8 8 12 Sapling	Age 100 Well	Sub-Can Red Bals Black 6.3 Sub-Can	Maple am Fir Spruce 38	Density Low Medium Medium	Avg. Height 5 - 10 feet Variable 5 - 10 feet N/A	Sapling Sapling Sapling	
No	Canopy Species Red Maple Black Spruce orthern White Cedar White Pine 4112 - Maple, Beech Canopy Species	% Cover 5 75 10 10 0 % Cover	Size Class Pole Pole Pole Log/Pole Ssociation Size Class	DBH 8 8 12 Sapling DBH	Age 100 Well Age	Sub-Can Red Bals Black 6.3 Sub-Can Red	Apperies Maple am Fir Spruce 38 Opy Species	Density Low Medium Medium 1-50 Density	Avg. Height 5 - 10 feet Variable 5 - 10 feet N/A Avg. Height	Sapling Sapling Sapling Sapling	Red maple and cherry clumps. White pine, spruce, aspen and a trace
No	Canopy Species Red Maple Black Spruce orthern White Cedar White Pine 4112 - Maple, Beech Canopy Species Red Maple	% Cover 5 75 10 10 , Cherry A % Cover 63	Size Class Pole Pole Log/Pole ssociation Size Class Pole/Sapling	DBH 8 8 12 Sapling DBH 5	Age 100 Well Age	Sub-Can Red Bals Black 6.3 Sub-Can Red Bals	Apple Ample Ammerican Apple Apple Apple Apple Apple	Density Low Medium Medium 1-50 Density Medium	Avg. Height 5 - 10 feet Variable 5 - 10 feet N/A Avg. Height < 5 feet	Sapling Sapling Sapling Sapling	Red maple and cherry clumps. White pine, spruce, aspen and a trace

Pin Cherry

5

Sapling

2



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed S	lite	General Comments
33	320 - Upland Shrub	Nonstocked	63.1	0	Unspecified	4211 - Planted	Red Pine	07/26/2021 - Planted RP is doing well. Still roughly only height of bracken fern at best. Plots showed a few spot of 400-500 tr/ac, but
			Sub-Ca	nopy Specie	es Density	Avg. Height	Size	mostly around 800 tr/ac. South 1/2 of stand has substantial component
			R	ed Pine	High	< 5 feet	Seeding	
			Ja	ack Pine	Low	5 - 10 feet	Seeding	RP. Release spray was not effective (rain within couple hours of
			Wł	ite Pine	Low	10 - 20 feet	Pole	spraying?), less than 50% of mortality in aspen and maple competition. Even less along north edge where residual RP forced spraying from
			Re	ed Maple	Trace	5 - 10 feet	Sapling	above canopy.
			R	ed Pine	Trace	>20 feet	Log	
		-	Quak	king Aspen	Low	Variable	Sapling	Stand was aerial release sprayed September 2020: Sprayed Element 4 @ 0.75 qt./acre and Rodeo @ 1.5 qt./acre. Surfactant of TA-39 at a rate
		-				·	·	of 12.8 oz/acre. Future evaluation upon re-inventory for success of spraying will be necessary. Regen Check: 10/01/2019 - Planted RP 833 TPA w/ WP volunteers at low density. Passed. Site needs herbicide spray targeting maple and
								aspen. Estimated 60% not FTG; Aerial spray placed as active (10/1/19) per TMS request until determination if valid rather than skidder spray.

06/12/18- RP TPA= 993, Fully stocked with white pine component.

(2015) - Stand was treated with TSale #420201301 "Blood Donor Pine" TCR 12/30/15. 10-20BA of residual pine left in stand. Trenched in 2016. FTP 42-840. Hand planted to RP in trenches 5/10/2017.

Stand was planted in fall of 1934 (JP & RP) and then again in spring of 1962 (RP). Harvested in 2003 as sale #001-03-01. No scarification of the site - conversion to red pine. Removed all jack pine, aspen and maple. Not much red pine regeneration coming in after the harvest.

34	42200 - Natural White Pine S			Sawtimber Medium		53.2 96 51					2021 - good component of oversized White Pine. Good regeneration of
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Car	opy Species	Density	Avg. Height	Size	aspen, maple, with some white pine, balsam and spruce. Pockets of a thicker W9. Some very large diameter white pine throughout the stand.
	White Pine	80	XLog/Log	20	96	Wh	ite Pine	Medium	Variable	Sapling	
	Red Pine	20	Log/XLog/Pole	16		Aspe	en (spp.)	High	>20 feet	Sapling	Stand was how asted in 1005 (and #00.04). Old notes montion stand
						Мар	le (spp.)	Medium	>20 feet	Sapling	Stand was harvested in 1995 (sale #06-94). Old notes mention stand almost being a clearcut after harvest. White pine and red pine residual
						Bal	sam Fir	Medium	Variable	Sapling	left as overstory. Good aspen and white pine regeneration from
											harvestthick. Scattered pockets of maple regeneration. Good component of balsam saplings and small poles as well.
35	500 -	Water	١	lonsto	ocked	30.1	L	Inspecified	No		Small chain of un-named lakes. Almost completely full of water in 2021.

Report 7 – Stands



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stand	Level 4 Co	over Type		Size De	nsity	Acres Stand Age I	BA Range	Managed S	Site	General Comments		
36	6129 - Mixed Conife	erous Lowla	Ind Forest	Poletimb	er Well	3.3 120	81-110	N/A				
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size			
	Black Spruce	20	Pole	6		Red Maple	Low	5 - 10 feet	Sapling			
No	rthern White Cedar	40	Pole	6	120	Black Spruce	Medium	Variable	Sapling			
	Tamarack	30	Pole	8		Northern White Cedar	Medium	Variable	Sapling			
	White Pine	10	Pole/Log	9		Tamarack	Medium	10 - 20 feet	Sapling			
				·		White Pine	Medium	Variable	Sapling			
37	42210 - Nat	ural Red Pi	ne s	Sawtimb	er Well	31.6 114	111-140	N/A		Natural Red Pine stand, comprised of ridges around small chain of un-		
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	named lakes. Very scenic stand along Co Rd. Some mortality along the edges of the lakes due to high water levels the last few years.		
	Red Maple	3	Pole	8		Red Maple	Medium	Variable	Sapling			
	Paper Birch	2	Pole	8		Quaking Aspen	Low	10 - 20 feet	Sapling			
	White Pine	15	Log/Pole/XLo	g 17		Balsam Fir	Low	Variable	Sapling			
	Red Pine	80	Log/XLog/Pol	le 16	114	Black Spruce	Low	Variable	Sapling			
						White Pine	Low	Variable	Sapling			
38	42290 - Natu	ıral Mixed F	'ine s	Sawtimb	er Well	36.7 89	111-140	N/A		Mixed pine stand. Mostly white pine. Components of red pine, jack pine		
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	aspen and white birch. Lots of diversity within the stand. Northern portion along stands 33 and 41 has a higher component of red pine		
	Paper Birch	5	Pole	8		Red Maple	Low	10 - 20 feet	Sapling	(planted in fall 1934 and replanted in spring of 1962 (3-0 RP, 2-0 JP)).		
	Bigtooth Aspen	10	Log/Pole	11		Balsam Fir	Low	5 - 10 feet	Sapling	Southern reaches of the stand are more large white pine. Aspen is		
	White Pine	45	Log/Pole	14	89	White Pine	Medium	Variable	Sapling	mature and large diameter, jack pine starting to decline.		
	Red Pine	30	Log/Pole	13		Aspen (spp.)	Low	Variable	Sapling			
	Jack Pine	10	Log/Pole	10						•		
39	42200 - Natu	ıral White P	ine s	Sawtimb	er Poor	15.3 94	1-50	N/A		2021 - Nice aspen regeneration throughout. Component of maple, white		
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	pine and balsam regeneration as well. Residual large diameter white pine and red pine make up the overstory currently. A trace of residual		
	White Pine	90	XLog/Log	18	94	Red Maple	Medium	5 - 10 feet	Sapling	small diameter red maple poles. Stand will transition to an aspen stand		
	Red Pine	10	Log/XLog	16		Balsam Fir	Low	Variable	Sapling	in the future, next entry year. (2015) - Stand was treated with		
						White Pine	Low	Variable	Sapling	Tsale#420201301 "Blood Donor Pine". TCR 12/30/15.		
						Bigtooth Aspen	High	10 - 20 feet	Sapling			
40	6129 - Mixed Conife	erous Lowla	nd Forest	Poletimb	er Well	37.1 120	81-110	N/A				
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size			
		40	Pole	0		Red Maple	Medium	5 - 10 feet	Sapling			
	Red Maple	10	FUIE	6		i teu mapie			1 3			
	Red Maple Paper Birch	5	Pole	7		Balsam Fir	Low	Variable	Sapling			
		-		-		1	Low Medium	Variable Variable				
No	Paper Birch	5	Pole	7	120	Balsam Fir			Sapling			
No	Paper Birch Black Spruce	5 25	Pole Pole/Log	7	120	Balsam Fir Black Spruce	Medium	Variable	Sapling Sapling			

Report 7 – Stands

Compartment: 21 Year of Entry: 2023

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E

Canopy Species % Cover Size Class DBH Age Sub-Canopy Species Avg. Height Size Size Rad Pine 10 Log 11 While Pine 5 10 feet Sapling/Pice 4 Sapling/Pice 2 Hard Pine Low 5 10 feet Sapling/Pice Log/Pice Low 5 10 feet Sapling/Pice Low 5 10 feet Sapling/Pice Low Sapling/Pice Low 5 10 feet Sapling/Pice Low Sapling/Pice Low Sapling/Pice Low Low Sapling/Pice Low Low Sapling/Pice Low Low Low Sapling/Pice Low	tand Level 4	Cover Type)	Size Density		Acres	Stand Age	BA Range	Managed S	Site	Year of Entry: 2023				
Campy Species % Cover Size Campy Species Denty Ag Height Size Medical red pine mostly along the easi side of the stand. 2021 - stand has a small component of JP getting into small pole size. Jack Pine 45 Sapling Pice 3 21 White Pine Low 5 - 10 feet Sapling 42 4133 - Aspen. Miked Pine Sapling 10.6 6 Immature N/A Canopy Species % Cover Size Canop Species % Cover Size Canop Species N/A Quaking Aspen 45 Sapling 1 6 Immature N/A White Pine 15 Log/Pole/XLog 12 10.6 Immature N/A Red Pine 5 Log/Pole/XLog 12 10.6 Immature N/A Red Pine 10 Sapling/Pole 12 10.6 Immature N/A Paper Birch 10 Sapling/Pole 12 Pole/Log 9 10 10 Baisam Fin 5 Sapling/Pole 12 8 Sub-Canopy Species Sub-Canopy Species Sub-Canopy Species Sub-Canopy Species Sub-Canopy Species Saplin	41 42120 - P	lanted Jack	Pine	Sapling	Well	17.9	21	Unspecified	N/A		Young jack pine stand. Planted with 2-0 jack pine in 2000. (FTP #42-				
Red Pine 10 Log 11 White Pine Low 5 - 10 feet Sapling Pine stand has a small component of JP getting into small pole size. 41 4133 - Aspen, Mixed Pine Sapling Well Low 5 - 10 feet Sapling Pine Low 5 - 10 feet Sapling Pine 42 4133 - Aspen, Mixed Pine Sapling Well The Sapling Pine Low 5 - 10 feet Sapling Pine Low 5 - 10 feet Sapling Pine 42 4133 - Aspen, Mixed Pine Sapling Pine The Sapling Pine The Sapling Pine The Sapling Pine N/A Sapling Pine Sapling Pine Sapling Pine Sapling Pine Sapling Pine Sapling Pine N/A Sapling Pine N/A Sapling Pine Sapling P	Canopy Species	% Cove	r Size Class	DBH	Age	Sub-Can	nopy Specie	es Density	Avg. Height	Size					
White Pine 5 Log/XLog 15 42 4133 - Aspen, Mixed Pine Sapling Well 10.6 Immature N/A 2021 - Good aspen and maple regen. Component of white birch as well. Residual white pine, red pine and eddar, along with some birch. Services of fulges, out deep drainage in stand. Quaking Aspen 45 Sapling 1 6 Immature N/A Red Maple 15 Sapling 1 6 Immature N/A Red Pine 15 Log/Pole/XLog 12 Immature N/A 2021. Good aspen and maple regen. Component of white birch as well. Residual white pine, red pine and eddar, along with some birch. Services of fulges, out deep drainage in stand. White Pine 15 Log/Pole 12 Immature N/A Baisam Fir 5 Sapling Mell 1 Immature N/A 43 42110 - Planted Red Pine Sawtimber Well 17.1 89 111-140 N/A Red Pine 8 Log/Pole 14 Sapling Sapling Aspen, reacting from the harvest. BA Red Pine 80 Log/Pole 14 Sapli	Red Pine	10	Log	11		Wh	hite Pine	Low	5 - 10 feet	Sapling					
42 4133 - Aspen, Nixed Pine Sapling Weil 10.6 Immalure N/A 2021 - Good aspen and maple regen. Component of while birch as well. Residual while pine, red pine and edar, along with some birch. Series of ridges, one deep drainage in stand. Quaking Aspen 45 Sapling Meil 16 Immalure N/A Red Maple 15 Log/Pole/XLog 12 Immalure N/A 2021 - Good aspen and maple regen. Component of while birch as well. Residual while pine, red pine and edar, along with some birch. Series of ridges, one deep drainage in stand. While Pine 15 Log/Pole/XLog 12 Immalure N/A 2021 - Good aspen and maple regen. Component of while birch as well. Residual while pine, red pine and edar, along with some birch. Series of ridges, one deep drainage in stand. Worther While Codar 2 Pole/Log 9 Immalure N/A Balsam Fir 5 Sapling/Pole 1 Stand mays treated with Tsale# 420201301 "Blood Donor I TCR 12/30/15. There was a residual over story of RP, WP, WS & Red Maple White Pine 8 Log/Pole 17.1 89 111-140 N/A Red Angle Sub-Canopy Species Merely Harded Stand mays treated with Tsale# 420201301 "Blood Donor TCR 12/30/15. Stand Main the pine, egenerating from the harvest. EA <td>Jack Pine</td> <td>85</td> <td>Sapling/Pole</td> <td>3</td> <td>21</td> <td>Re</td> <td>ed Pine</td> <td>Low</td> <td>5 - 10 feet</td> <td>Sapling</td> <td></td>	Jack Pine	85	Sapling/Pole	3	21	Re	ed Pine	Low	5 - 10 feet	Sapling					
Canopy Species % Cover Size Class DBH Age Quaking Aspen 45 Sapling 1 6 Red Maple 15 Sapling / 1 6 Red Maple 15 Log/Pole 12 Northem White Cedar 2 Pole Log/Pole 12 Northem White Cedar 2 Pole Log/Pole 12 Hemiock 3 Log/Pole 12 Add 42110 - Planted Red Pine Sawtimber Well 17.1 89 111-140 NA Canopy Species % Cover Size Class DBH Age Medium 5 - 10 feet Sapling White Pine 8 Log/Pole 14 Bitson Fir Size-Canopy Species Density Avg. Height Size Red Dine 90 Log/Pole 14 Bitson Size-Canopy Species Density Avg. Height Size White Pine 0 Variable Sapling Color Size Class DBH Age White Pine 12 Log/Pole 14 Bitson Sapen Sapen Sapen Sapen Sapen Sapen Sapen	White Pine	5	Log/XLog	15				·			-				
Caropy Species % Cover Size Class DBH Age Quaking Agen 45 Sapling 1 6 Red Maple 15 Sapling 1 6 White Pine 15 Log/Pole/Log 9 6 Paper Birch 10 Sapling/Pole 1 6 Balsam Fir 5 Sapling/Pole 1 6 Hemlock 3 Log/Pole 10 5 Vihte Pine 3 Log/Pole 10 5 Balsam Fir 5 Sapling/Pole 1 8 White Pine 8 Log/Pole 10 5 White Pine 8 Log/Pole 14 8 9 Red Maple 42 Log/Pole 14 8 9 11-140 N/A 2021 - Red Pine ranges from 60-89 years old. Planted pine. Thin that was completed in 2015 did not produce any red pine regenerat Agen. maple and white pine emselbing from the harvest. EA Red Pine Pine 8 Log/Pole 14 8 10 White Pine Sapling 10 10 10 10 10 10			Pine	Sapling	Well	10.6	6	Immature	N/A		2021 - Good aspen and maple regen. Component of white birch regen				
Quaking Aspen 45 Sapling 1 6 Red Maple 15 Log/Pole 12 Image: Comparison of the transfer of the transf			r Size Class	DBH	Age										
White Pine 15 Log/Pole/XLog 12 13 11 14 N/A 14 <	Quaking Aspen	45 Sapling		1	6										
White Pine 15 Log/Pole/Log 12 Northern White Cedar 2 Pole/Log 9 Paper Birch 10 Sapling/Pole 1 Balsam Fir 5 Sapling/Pole 1 Hemlock 3 Log/Pole 10 43 42110 - Planted Red Pine Sawtimber Well 17.1 89 111-140 N/A Red Pine 9 Log/Pole 14 89 Medium 5 - 10 feet Sapling Red Pine 90 Log/Pole 12 Medium 5 - 10 feet Sapling White Pine 8 Log/Pole 14 89 Medium 5 - 10 feet Sapling Red Pine 90 Log/Pole 12 Medium Variable Sapling original stand (plantation) is now separated into to different stands different management bojectives. Stand 70 (originality south 1/2 o transping of 1862 (3-0 RP), Jack pine is 79 years old and showing decline and mortality. Jack pine is 100 potenes of mature or tronglobal. Red Dak 2 Log/Pole 12 21.7 107 111-140 NA Red Pine plantation. Plantel Mixed Pine Saver (spp.) </td <td>Red Maple</td> <td>15</td> <td>Sapling</td> <td>1</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>(2015) - Stand was treated with Tsale# 420201301 "Blood Donor Pine".</td>	Red Maple	15	Sapling	1							(2015) - Stand was treated with Tsale# 420201301 "Blood Donor Pine".				
Red Pine 5 Log/Pole 12 Northern White Cedar 2 Pole/Log 9 9 Paper Birch 10 Sapling/Pole 1 1 Balsam Fir 5 Sapling/Pole 1 1 Hemlock 3 Log/Pole 10 1 43 42110 - Plantet/Ret Pire Size Class DBH Agg Sub-Canopy Species Nov/Ret Mage Size Name Sopling/Pole 16 11.140 N/A 2021 - Red Pine ranges from 60-89 years oid. Planted pine. Thin that was completed in 2015 did not produce any red pine regeneres. Using from the harvest. BA Red Pine 90 Log/Pole 14 89 111.140 N/A 2021 - Red Pine ranges from 60-89 years oid. Planted pine. Thin that was completed in 2015 did not produce any red pine regeneres. Using from the harvest. BA White Pine 90 Log/Pole 14 89 Medium Variable Sapling Red Oak 2 Log/Pole 14 89 Medium Variable Sapling original stand (plantation) is now separated into to different stands divel pine management objectives. Stand 70 (originally south 1/2 ostand 70 (ori	White Pine	15	Log/Pole/XLog	g 12							, , , ,				
Paper Birch 10 Sapling/Pole 1 Balsam Fir 5 Sapling 2 Hemlock 3 Log/Pole 10 43 42110 - Planted Red Pine Sawtimber Well 17.1 89 111-140 N/A Canopy Species % Cover Size Class DBH Age Medium 5 - 10 feet Sapling 2021 - Red Pine ranges from 60-89 years old. Planted pine. Thin that was completed in 2015 did not produce any red pine regener assuting from the harvests. BA White Pine 8 Log/Pole 14 89 Red Maple Medium 5 - 10 feet Sapling Red Oak 2 Log/Pole 12 Medium Variable Sapling original stand (plantation) is now separated into to different stands different management objectives. Stand 70 (originally south 1/2 o stand) will not be managed as red pine. 44 42290 - Natural Mixed Pine Sawtimber Well 21.7 107 111-140 N/A Sepen Roy Species % Cover Size Class DBH Age Sub-Canopy Species Density Aspen (spp.) N/A Keet All All All All All All All All All Al	Red Pine	5	Log/Pole	12											
Balsam Fir 5 Sapling 2 Hemlock 3 Log/Pole 10 43 42110 - Planted Red Pine Sawtimber Well 17.1 89 111-140 N/A 2021 - Red Pine ranges from 60-89 years old. Planted pine. Thin that was completed in 2015 did not produce any red pine regenerating from the harvest. BA White Pine 8 Log/Pole 14 89 Medium 5 - 10 feet Sapling origination (plantation produce any red pine regeneration to objectives. Stand 70 (originally south 1/2 or stand y produce any red pine regenerated in to objectives. Stand 70 (originally south 1/2 or stand y produce any red pine ranges from 60-89 years old. Planted pine. Thin that was completed in 2015 did not produce any red pine regenerated in to the travelence of travelence of the travelence of tra	Northern White Ceda	r 2	Pole/Log	9											
Hemiock 3 Log/Pole 10 43 42110 - Planted Red Pine Sawtimber Well 17.1 89 111-140 N/A Canopy Species % Cover Size Class DBH Age Medium 5 - 10 feet Saping White Pine 8 Log/Pole 14 89 Medium 5 - 10 feet Saping Red Pine 90 Log/Pole 14 89 Medium 5 - 10 feet Saping Red Oak 2 Log/Pole 12 Medium 5 - 10 feet Saping Medium 5 - 10 feet Saping Saping Saping Saping Saping Red Oak 2 Log/Pole 12 Medium Variable Saping Aspen (spp.) Medium Variable Saping Saping Saping Vilte Pine Ked Maple Medium Variable Saping Saping Gamopy Species Versite Variable Saping Saping Saping Saping Vilte Pine Log/Pole 12 Saping Medium Variable	Paper Birch	10	Sapling/Pole	1											
43 42110 - Planted Red Pine Sawtimber Well 17.1 89 111-140 N/A Canopy Species % Cover Size Class DBH Age Sub-Canopy Species Density Avg. Height Size White Pine 8 Log/Pole 14 Bub Canopy Species Density Avg. Height Size Red Oak 2 Log/Pole 14 Red Maple Medium Variable Sapling Red Oak 2 Log/Pole 12 Aspen (spp.) Medium Variable Sapling Ville Pine Low Variable Sapling Sapling Stand vill not be managed as red pine. 44 42290 - Natural Mixed Pine Sawtimber Well 21.7 107 111-140 N/A 44 42290 - Natural Mixed Pine Sawtimber Well 21.7 107 111-140 N/A Red Right Species % Cover Size Class DBH Age Sub-Canopy Species Avg. Height Size Sapling 44 42290 - Natural Mixed Pine Sawtimber Well 21.7 107 111-140 N/A Biglison Aspen 5	Balsam Fir	5	Sapling	2											
Canopy Species % Cover Size Class DBH Age White Pine 8 Log/Pole 14 Red Maple Medium 5 - 10 feet Saping Red Pine 90 Log/Pole 14 89 White Pine Low Variable Saping Red Oak 2 Log/Pole 12 Medium Variable Saping	Hemlock	3	Log/Pole	10											
Canopy Species % Cover Size Aspen, maple and white pine regen resulting from the harvest. BA from 80 - 140. Due to the Two Hearted River Natural River Plan, original stand (plantation) is now separated into to different stands different management objectives. Stand 70 (originally south 1/2 or stand) will not be managed as red pine. Red Oak 2 Log/Pole 14 89 Medium Variable Sapling Red Oak 2 Log/Pole 12 Medium Variable Sapling original stand (plantation) is now separated into to different stands different management objectives. Stand 70 (originally south 1/2 or stand) will not be managed as red pine. Ked Dia 2 Log/Pole 12 Medium Variable Sapling Ked Pine Sapen (spp.) Medium Variable Sapling (2015) - Stand was treated with TSale# 420201301 "Blood Donor TCR 12/30/15. Red Pine plantation. Planted in fall of 1934 (2-0 RP & JP) and the in spring of 1962 (3-0 RP). Jack pine is 79 years of and showing decline and mortality. Jack pine is no pockets. Clones of matura throughout. Two ages of red pine. Natural white pine throughout the stand. 44 42290 - Natural Mixed Pine Sawtimber Well 21.7 107 111-140 N/A Red Pine part Birch 5 Pole 9 Sub-Canopy Species Density Avg. Heig	43 42110 - Planted										2021 - Red Pine ranges from 60-89 years old. Planted pine. Thinning that was completed in 2015 did not produce any red pine regeneration.				
Red Pine90Log/Pole1489White PineLowVariableSaplingoriginal stand (plantation) is now separated into to different stands different management objectives. Stand 70 (originally south 1/2 or stand will not be managed as red pine.Red Oak2Log/Pole12Aspen (spp.)MediumVariableSaplingAspen (spp.)MediumVariableSaplingAspen (spp.)MediumVariableSaplingCanopy SpeciesKoverSize ClassDBH AgePaper Birch5Pole9Bigtooth Aspen10Pole/Log9White Pine30XLog/Log18					Age						Aspen, maple and white pine regen resulting from the harvest. BA ra				
Red Oak2Log/Pole12Aspen (spp.)MediumVariableSaplingMediumVariableSaplingdifferent management objectives. Stand 70 (originally south 1/2 or stand) will not be managed as red pine.(2015) - Stand was treated with TSale# 420201301 "Blood Donor TCR 12/30/15.Red OakVariable4442290 - Natural Mixed PineSawtimber Well21.7107111-140N/APaper Birch5Pole9Balsam FirHighWhite Pine30XLog/Log18		-	0												
Ked Oak2Log/Pole12Aspen (spp.)MediumVariableSaplingstand) will not be managed as red pine.4442290 - Natural Mixed PineSawtimber Well21.7107111-140N/ACanopy Species% CoverSize ClassDBH AgeSub-Canopy SpeciesDensityAvg. HeightSizeBigtooth Aspen10Pole/Log9White PineLow5 - 10 feetSaplingWhite Pine30XLog/Log1818SaplingSapling			0		89		White Pine			. 0					
TCR 12/30/15.Red Pine plantation. Planted in fall of 1934 (2-0 RP & JP) and the in spring of 1962 (3-0 RP). Jack pine is 79 years old and showing decline and mortality. Jack pine is in pockets. Clones of mature a throughout. Two ages of red pine. Natural white pine throughout t stand, large diameters.4442290 - Natural Mixed PineSawtimber Well21.7107111-140N/ACanopy Species% Cover 5DBH Age 9Sub-Canopy SpeciesDensity Avg. HeightSize SizeNatural red pine stand bordering the Two Hearted River. Ridge of pine and white pine.Paper Birch5Pole9Balsam FirHigh White PineVariableSapling SaplingWhite Pine30XLog/Log18White PineLow5 - 10 feetSapling	Red Oak	2	Log/Pole	12		Aspe	en (spp.)	Medium	Variable	Sapling					
Add A2290 - Natural Mixed Pine Sawtimber Weil 21.7 107 111-140 N/A 44 42290 - Natural Mixed Pine Sawtimber Weil 21.7 107 111-140 N/A Natural red pine stand bordering the Two Hearted River. Ridge of Paper Birch 5 Pole 9 Sub-Canopy Species Density Avg. Height Size Size Size Size Sub-Canopy Species Density Avg. Height Size Size Sub-Canopy Species Density Avg. Height Size Size Sub-Canopy Species Density Avg. Height Size Sub-Canopy Species											(2015) - Stand was treated with TSale# 420201301 "Blood Donor Pine". TCR 12/30/15.				
Canopy Species % Cover Size Class DBH Age Sub-Canopy Species Density Avg. Height Size Paper Birch 5 Pole 9 Balsam Fir High Variable Sapling Bigtooth Aspen 10 Pole/Log 9 White Pine Low 5 - 10 feet Sapling White Pine 30 XLog/Log 18											Red Pine plantation. Planted in fall of 1934 (2-0 RP & JP) and then agai in spring of 1962 (3-0 RP). Jack pine is 79 years old and showing decline and mortality. Jack pine is in pockets. Clones of mature aspen throughout. Two ages of red pine. Natural white pine throughout the stand, large diameters.				
Paper Birch5Pole9Balsam FirHighVariableSaplingBigtooth Aspen10Pole/Log9White PineLow5 - 10 feetSaplingWhite Pine30XLog/Log18Sapling							-			0:	Natural red pine stand bordering the Two Hearted River. Ridge of red $\ensuremath{{}_{\rm T}}$ pine and white pine.				
Bigtooth Aspen 10 Pole/Log 9 White Pine Low 5 - 10 feet Sapling White Pine 30 XLog/Log 18		1			Age										
White Pine 30 XLog/Log 18	1														
	Q .		0			vvh	ile Pine	LOW	5 - 10 Teet	Sapling					
Red Pine 55 Log/XLog 16 107	Red Pine	55	Log/XLog		407										

Stand

45

46

48

49

Report 7 – Stands

Compartment: 21 Year of Entry: 2023

General Comments Level 4 Cover Type Size Density Acres Stand Age BA Range Managed Site 42290 - Natural Mixed Pine Sawtimber Well 41.8 106 111-140 N/A Large diameter white pine and red pine, with large aspen. Some white birch, maple and balsam. Black spruce in the lower areas within the Size **Canopy Species** % Cover Size Class DBH Age Sub-Canopy Species Densitv Avg. Height stand Red Maple 2 Pole 8 Red Maple 5 - 10 feet Sapling Medium 5 7 Paper Birch Pole Balsam Fir Medium Variable Sapling 10 11 **Biatooth Aspen** Loa/Pole White Pine Medium Variable Sapling White Pine 40 Log/XLog/Pole 16 106 Black Spruce I ow Variable Sapling 28 Red Pine 16 Loa/XLoa Black Spruce 15 Pole/Log 9 4311 - Pine, Aspen Mix Poletimber Poor 26.8 27 1-50 N/A Stand was harvested in 1994 (sale #04-93). Residual overstory BA averages 40 sq ft. Good aspen and white pine regeneration following Size Class Size **Canopy Species** % Cover DBH Age Sub-Canopy Species Density Avg. Height harvest. Stand is transitioning to an aspen stand with a component of White Pine 10 Log/XLog 16 10 - 20 feet Sapling Red Maple Low large red pine and white pine. 40 103 Red Pine Balsam Fir Variable Sapling Log/XLog 16 Low 50 3 27 Medium 10 - 20 feet **Biatooth Aspen** Sapling/Pole White Pine Sapling Jack Pine I ow 10 - 20 feet Sapling 42141 - Planted Mixed Pine Mixed 17 Poletimber Medium 117 1-50 N/A Stand was planted in fall of 1934 (2-0 RP and JP) and in the spring of Deciduous 1962 (RP). Harvested in 2003 as sale #001-03-01. Scarified 6/2004. Regeneration check done 6/4/2008. 1902 tr/ac - mostly aspen. Residual **Canopy Species** % Cover Size Class **DBH** Age Sub-Canopy Species Density Avg. Height Size BA from sale is 30-40 sq ft. White Pine 10 Log/Pole/XLog 16 Red Maple Low 10 - 20 feet Sapling 2021 - Large red pine and white pine over good aspen, jack pine, and Red Pine 30 Loa/Pole/XLoa 15 89 White Pine Medium 5 - 10 feet Sapling maple regen. Stand was planted. However due to the Natural River Plan 3 Sapling **Bigtooth Aspen** 40 Sapling/Pole 17 Jack Pine Medium < 5 feet and the fact that there is no red pine regeneration from previous harvest. 3 Jack Pine 20 Sapling/Pole Aspen (spp.) High 10 - 20 feet Sapling this stand will be managed as a future natural mixed upland stand with pine. Red pine planted acres will be moved to another location. Stand will transition as the aspen, jack pine and maple regen moves into pole size. 42110 - Planted Red Pine Sawtimber Well 4.0 89 111-140 N/A 2021 - Red pine plantation that now falls within the Two Hearted River Natural River Plan zone. Decided that this portion of the original **Canopy Species** % Cover Size Class **DBH** Age Sub-Canopy Species Ava. Heiaht Size Densitv plantation will be be managed as an upland mixed/aspen with pine stand Sapling Paper Birch 2 Pole 9 Red Maple Low 10 - 20 feet type. White Pine 13 Log/Pole 14 Balsam Fir Low Variable Sapling Stand was planted in the fall of 1934 (2-0 RP & JP) and in the spring of Red Pine 80 Log/Pole/XLog 89 Variable Sapling 15 White Pine Low 1962 (3-0 RP). Harvested in 2003 as sale #001-03-01. Removed all jack

Bigtooth Aspen

5

Log/Pole

12

Aspen (spp.)

Medium

10 - 20 feet

Sapling

pine and aspen, marked red pine, left white birch. Red pine regeneration is sparse. Mainly aspen with pockets of white pine regeneration.

Report 7 – Stands



Stand	d Level 4 C	4 Cover Type		Size Density		Acres	Stand Age BA Range		Managed S	Site	General Comments		
50	4311 - Pin	4311 - Pine, Aspen Mix			Sawtimber Well		81	141-170	N/A		Aspen ridges and slopes bordering on teh Two Hearted River. Aspen		
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	s Density	Avg. Height	Size	with white pine, red pine, and white birch. Balsam understory. Large diameter pine and aspen. Aspen is mature, starting to decline		
	Red Maple	2	Pole	8		Re	d Maple	Medium	Variable	Sapling			
	Paper Birch	2	Pole/Log	9		Ba	lsam Fir	High	Variable	Sapling			
	Bigtooth Aspen	40	Log/Pole	13	81	Blac	k Spruce	Low	10 - 20 feet	Sapling			
	Black Spruce	2	Pole	7							-		
	White Pine	30	Log/XLog/Pole	16									
	Red Pine	24	Log/XLog	16									
51	6225	5 - Bog		Nonsto	ocked	1.6		Unspecified	No				
52	4133 - Aspe	en, Mixed P	line	Saplinę	g Well	16.4	27	1-50	N/A		Stand was cut as sale #04-93 (Unit 1). Red pine and white pine residu		
-	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	s Density	Avg. Height	Size	left after the harvest. Good aspen and jack pine regeneration, with component of red maple (stump sprout). Management objective for		
	Quaking Aspen	70	Sapling/Pole	4	27	Ba	lsam Fir	Low	Variable	Sapling	stand is aspen.		
	White Pine	5	Log/XLog	15		Wh	nite Pine	Low	Variable	Sapling			
	Red Pine	7	Log/Pole/XLog	14		Re	ed Pine	Low	< 5 feet	Sapling			
	Jack Pine	10	Sapling/Pole	4							-		
	Red Maple	8	Sapling/Pole	3									
53	42200 - Natu		-	awtimb	er Well	31.2	103	111-140	N/A		Large diameter white pine stand. Thick BA in spots. Areas where the stand is more open. Aspen in the stand is mature and dying out. Dear		
	Canopy Species	% Cover	Size Class	DBH	Age						tops in some of the white pine. Red pine component. Low areas		
	Red Maple	5	Pole	8							throughout the stand. Stand would be tough to manage due to low		
	Quaking Aspen	10	Log/Pole	12							ground, lakes, etc		
	Red Pine	5	Log	14									
	White Pine	80	Log/XLog/Pole	16	103								
54	6225	5 - Bog		Nonsto	ocked	13.9	I	Unspecified	No				
55	4113 - R.M	laple, Conii	fer S	awtimb	er Poor	3.6	94	51-80	N/A		Low quality red maple with large diameter white pine and aspen. Component of red pine as well. Poor form to much of the maple. Asper is dying out. Hemlock pockets. Better timber and large diameters in th western half of the stand. Dieback in some of the maple, bark beetle in some of red pine, aspen is declining and showing mortality. 2016: Sale completed. 42-026-13-01, Mosquito Melee Hardwoods. Th portion of original stand 9 was left as a buffer along the small creek. Retain for retention purposes.		
56	622 - Lov	vland Shrul	0	Nonsto	ocked	3.9		Unspecified	No		Acquired in 2018 as part of TNC trade. Lowland brush along lakes		
57	6225	5 - Bog		Nonsto	ocked	5.5		Unspecified	No		Acquired in 2018 as part of TNC trade.		

Report 7 – Stands

Stand	Level 4 Cover Type			Size De	nsity	Acres	Stand Age	BA Range	Managed S	ite	General Comments				
58	42200 - Natu	ural White I	Pine Sa	awtimb	er Well	31.2	111	111-140	N/A		Acquired in 2018 as part of TNC trade. Nice white pine ridge that was				
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Car	nopy Specie	s Density	Avg. Height	Size	managed by TNC. Good aspen, maple, white pine, white birch, balsam regeneration, along with some red pine, oak and spruce.				
	White Pine	80	Log/Pole/XLog	12	111	Bigto	oth Aspen	High	10 - 20 feet	Sapling	regeneration, along with some red pine, oak and spruce.				
	Red Pine	13	Log/Pole/XLog	g 14		Wh	nite Pine	Medium	Variable	Sapling					
	Red Oak	2	Log/Pole	12		Re	d Maple	Medium	Variable	Sapling					
	Paper Birch	5	Log/Pole	10		Re	ed Pine	Low	5 - 10 feet	Sapling					
						Blac	k Spruce	Low	5 - 10 feet	Sapling					
						Re	ed Oak	Low	5 - 10 feet	Sapling					
						Pap	oer Birch	Low	5 - 10 feet	Sapling					
						Bal	lsam Fir	Low	Variable	Sapling					
59	622 - Lowland Shrub Nonstocked				ocked	1.2		Unspecified	No		Acquired in 2018 as part of TNC trade. lowland surrounding the small lakes				
60	42210 - Nat	ural Red P	line Sa	awtimb	er Well	13.0	96	111-140	N/A		2021 - Mixed stand of large diameter red pine and white pine. Higher E $_{\rm I}$ of red pine than white pine throughout most of the stand. Fairly open				
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Car	nopy Specie	s Density	Avg. Height	Size	understory throughout. Manage this stand as more of a natural red pine				
	White Pine	40	XLog/Log/Pole	18	96	Wh	nite Pine	Low	Variable	Sapling	stand with white pine component.				
	Red Pine	60	Log/XLog/Pole	16	96	Мар	ole (spp.)	Low	5 - 10 feet	Sapling					
						Balsam Fir		Low	Variable	Sapling					
61	4113 - R.M	laple, Coni [.]	fer Sa	Sawtimber Well		46.1 94 8		81-110	N/A		2021 - Low quality red maple with large diameter white pine and aspen				
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Car	nopy Specie	s Density	Avg. Height	Size	Very low quality in areas. Poor form to much of the maple. Variable B. throughout. Aspen is dying out. Hemlock pockets. Better timber and				
	Red Maple	60	Log/Pole	10	94	Re	d Maple	Medium	Variable	Sapling	large diameters in the western half of the stand. Dieback in some of th				
	White Pine	25	Log/Pole/XLog	16		Bal	lsam Fir	Medium	Variable	Sapling	maple, bark beetle in some of scattered red pine, aspen is declining an				
	Yellow Birch	5	Log/Pole	10		E	Beech	High	Variable	Sapling	showing mortality.				
	Bigtooth Aspen	5	Log/Pole	12							2016: Sale completed. 42-026-13-01, Mosquito Melee Hardwoods. Th				
	Hemlock	5	Log/Pole	ole 11							is the portion of original Stand 9 that was not part of the harvest. Falls within the Two Hearted River Natural River Plan.				
62	6129 - Mixed Conife	erous Lowl	and Forest	Sapling	Poor	9.0	65	Unspecified	N/A		Acquired in 2018 as part of TNC trade.				
63	63 6129 - Mixed Coniferous Lowland Forest Poletimber Medi					n 28.2	102	Unspecified	N/A		Acquired in 2018 as part of TNC trade.				

Stand

65

67

Report 7 – Stands

Compartment: 21 Year of Entry: 2023

Level 4 Cover Type Size Density Acres Stand Age BA Range Managed Site **General Comments** 64 4112 - Maple, Beech, Cherry Association Sawtimber Well 11 8 95 81-110 N/A 2021 - Center of the stand (within the "loop" of the road) has more advanced regeneration from the previous harvest. Good aspen regen in Avg. Height **Canopy Species** % Cover Size Class DBH Age Sub-Canopy Species Densitv Size those areas mixed with maple and birch. 78 Log/Pole 10 95 Red Maple >20 feet Sapling Red Maple High 2/24/2016: cut as part of 420251301. Beaver Lake Hardwoods in 2015. 2 9 Beech Pole Beech Variable Sapling Low 5 8 Balsam Fir Pole Paper Birch Medium >20 feet Sapling White Pine 15 Log/XLog/Pole 15 Balsam Fir Hiah Variable Sapling White Pine Low 10 - 20 feet Sapling Medium >20 feet Aspen (spp.) Sapling 6122 - Black Spruce Sapling Medium 10.4 50 Unspecified N/A 42110 - Planted Red Pine Sawtimber Medium 3.9 89 51-80 N/A 2021 - Northern portion of original stand 48 (2011), that lies outside of the zone for the Two Hearted River Natural River Plan. The entire stand was **Canopy Species** % Cover Size Class **DBH** Age Sub-Canopy Species Density Avg. Height Size planted to red pine in 1934 and replanted in 1962. This stand, outside of White Pine 10 Loa/Pole 12 Red Maple Low 10 - 20 feet Sapling the Natural River Plan, will be continue to be managed as a red pine 75 14 89 plantation. Red Pine Log/Pole White Pine Medium 5 - 10 feet Sapling Jack Pine 15 Sapling/Pole 4 17 Jack Pine Medium < 5 feet Sapling Stand was planted in fall of 1934 (2-0 RP and JP) and in the spring of 10 - 20 feet Aspen (spp.) High Sapling 1962 (RP). Harvested in 2003 as sale #001-03-01. Scarified 6/2004. Regeneration check done 6/4/2008. 1902 tr/ac - mostly aspen. Residual BA from sale is 30-40 sq ft. 42290 - Natural Mixed Pine Sawtimber Well 48.3 92 81-110 N/A Large diameter red pine with components of white pine and jack pine. Higher red pine and jack pine component than stand 11 adjacent to the ze south (was originally one larger stand). four (4) vernal areas within the ling stand. Stand has had previous harvests done. Regen of aspen, maple and white pine. Scattered pole size white birch and spruce. Jack pine is ling showing signs of mortality. Some larger diameter (10-12 inch) aspen. ling ling ling ling

68	42290 - Natu	ral Mixed	Pine S	Sawtimb	er Well	48.3	92	81-110	N/A	
	Canopy Species	% Cove	r Size Class	B DBH Age		Sub-Car	nopy Species	Density	Avg. Height	Size
	White Pine	30	Log/Pole/XLo	g 14	92	Rec	d Maple	Medium	10 - 20 feet	Sapli
	Red Pine	43	Log/Pole/XLo	g 15	92	Pap	er Birch	Low	>20 feet	Sapli
	Jack Pine	15	Pole/Log	9		Bal	sam Fir	Medium	Variable	Saplii
	Bigtooth Aspen	10	Pole/Sapling	5		Black	k Spruce	Low	Variable	Sapli
	Red Maple	2	Pole	8		Aspe	en (spp.)	Medium	10 - 20 feet	Saplii
				·		Wh	ite Pine	Low	Variable	Saplir
70	42110 - Plar	nted Red F	^o ine Sa	awtimber	Mediun	n 11.5	89	81-110	N/A	

70	42110 - Flai	iteu Neu F		Sawumb		Ium	11.5	09	01-110	IN/A	
	Canopy Species	% Cover	Size Clas	s DE	H Age	•	Sub-Can	opy Species	s Density	Avg. Height	Size
	White Pine	10	Log/Pole	e 14	ŀ		Rec	l Maple	Medium	5 - 10 feet	Sapling
	Red Pine	90	Log/Pole	e 12	2 89		Whi	ite Pine	Low	Variable	Sapling
							Aspe	en (spp.)	Medium	Variable	Sapling

2021 - A new stand created from the south half of stand 43. This portion of the plantation falls within the Two Hearted River Natural River Plan zone, and will no longer be managed as a red pine plantation. Regeneration from the thinning completed in 2015 is aspen with maple and white pine. Management Objective for this stand will now be an upland mixed type/aspen with pine.

(2015) - Stand was treated with TSale# 420201301 "Blood Donor Pine". TCR 12/30/15.

Red Pine plantation. Planted in fall of 1934 (2-0 RP & JP) and then again in spring of 1962 (3-0 RP). Jack pine is 79 years old and showing decline and mortality. Jack pine is in pockets. Clones of mature aspen throughout. Two ages of red pine. Natural white pine throughout the stand, large diameters.

