

Compartment Review Presentation

Traverse City Forest Management Unit Compartment 61160 Entry Year 2024 Acreage: 2,542 County Kalkaska Management Area: Boardman Plains

Stand Examiner: Paul Roell

Legal Description:

T27N R08W Sections 20, 21, 28 and 29

Identified Planning Goals:

Vegetation management in the Boardman Plains management area will provide forest products; maintain or enhance wildlife habitat; protect areas of unique character including the Boardman River (a designated natural river) and the Sand Lakes Quiet Area (a designated high conservation value area), threatened, endangered and special concern species; and provide for forest-based recreational uses. Timber management objectives for this planning period include improving the age-class structure of aspen; increasing regeneration of oak; working toward balancing the red pine age-class structure; continuing emphasis on managing the northern hardwood resource for stand quality, age, and species diversity; wildlife values; and continued production of wood products. Wildlife habitat management objectives include perpetuating early-successional communities for species adapted to young forests for hunting and other wildlife-related recreation opportunity. Expected challenges within this 10-year planning period include: increased recreational pressure; increased oil and gas development; an increased wildland/urban interface; a need to restore oak/pine barrens communities; invasive plant control; and the conversion of poor oak sites to mixed pine/oak sites.

Soil and topography:

Soils range from Rubicon sand to Kalkaska Loamy Sand. Topography is rolling hills with some relatively steep slopes. Topography will present management challenges in some areas.

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

Most of the compartment is contiguous state ownership with private property in Sections 20, 21 and 28. There are some oil and gas facilities within Section 20.

Unique Natural Features:

Potential for Kirtland's warbler and prairie warbler in young jack pine and upland brush, great blue heron rookery, wood turtle, eastern massasuaga, and little brown bat.

Archeological, Historical, and Cultural Features:

There are some areas of Archeological concern within the compartment.

Special Management Designations or Considerations:

There is Natural River Considerations for the North Branch of the Boardman River.

Watershed and Fisheries Considerations:

This compartment contains the North Branch of the Boardman River. Reasonable buffers (as outlined in Water Quality Management Practices on Forest Land) and Natural Rivers zoning restrictions should be adhered to around all streams in this compartment. These streams are all naturally reproducing, are Type 1 designated trout streams; existing buffers appear to be appropriate for the proposed treatments.

Wildlife Habitat Considerations:

The local Land Type Association (LTA), a pitted outwash plain, shows a history of wildfires and less frequently, windfalls. Consequently, in the past a variety of forest types and age classes were found, including: the entire spectrum of conifer dominated forests, jack pine and oak/pine savannas, to northern hardwoods in "fire shadow" areas. Presently, this area supports a mixture of oak stands (with a strong component of white pine), red and jack pine plantations, scattered aspen stands, upland brush and grass types, as well as several lakes and wetlands situated in ice block depressions. There are several natural stands of red pine in this compartment that should be maintained as potential sources of genetic diversity as well as important mature pine habitat. Future management of the various pine stands here should consider incorporating small (2-5 acre) islands that are left relatively un-thinned within mature stands to provide winter roosting cover for turkeys. Deciduous species should be encouraged within conifer plantations for diversity. This area should continue to be managed to perpetuate a variety of forest types and successional stages related to a fire prone community. This type of habitat mosaic supports wildlife species such as black bear, white-tailed deer, wild turkeys, pine warblers, northern goshawks, and box turtles. Several upland brush types and grassy openings have been prescribed for burning to promote

existing native warm season grasses and additional seeding to native species as needed. Timber prescriptions should be designed to incorporate leave trees and snags, as well as some downed logs, to mimic fire disturbance.

The southeast portion of the compartment is situated on a flat, excessively well drained outwash plain. This LTA is also a fire driven landscape supporting a similar mosaic of forest types and wildlife species as described above. Cuts in this community type should also be designed to leave all standing dead timber and scattered leave trees/islands for a component of structural diversity in regenerating stands of timber. Several openings will be treated with prescribed burns to stimulate existing little blue stem and other native species.

Mineral Resource and Development Concerns and/or Restrictions

The State-owned Smith Lake sand & gravel pit is two miles northeast. There is good potential for sand and gravel within the compartment, but any surface mining would need to avoid oil & gas infrastructure. The compartment is within the Silurian reef trend and several successful wells have been drilled in and around the compartment. Nearly all the wells have been plugged or temporarily abandoned. There may be potential for additional reef discoveries beneath the compartment as well as potential for gas storage. There is no known metallic mineral potential in this part of the state. The state does not own all the mineral rights within the compartment. Because the mineral estate is the dominant estate, reasonable access to the surface must be provided to private owners if they choose to explore or develop their mineral rights.

Vehicle Access:

There are numerous forest roads and county roads throughout the compartment that provide plenty of access. Some of the forest roads are poor quality but are still navigable with a 4-wheel drive vehicle.

Survey Needs:

There are some survey needs within Sections 20 and 21.

Recreational Facilities and Opportunities:

Snowmobile Trail #55, and the Michigan Cross Country Cycle Trail (MCCCT) both are located in the western side of this compartment. There is also potential for the North Country Trail to be located within this compartment, however, the trail proposal has not been approved at the time of this write-up. Policy and Procedure 32.22-01 (Best Management Practices for Forest and Wildlife Management Adjacent to Recreational Trails) should be taken into consideration if forest treatments impact the designated recreation trails within this compartment.

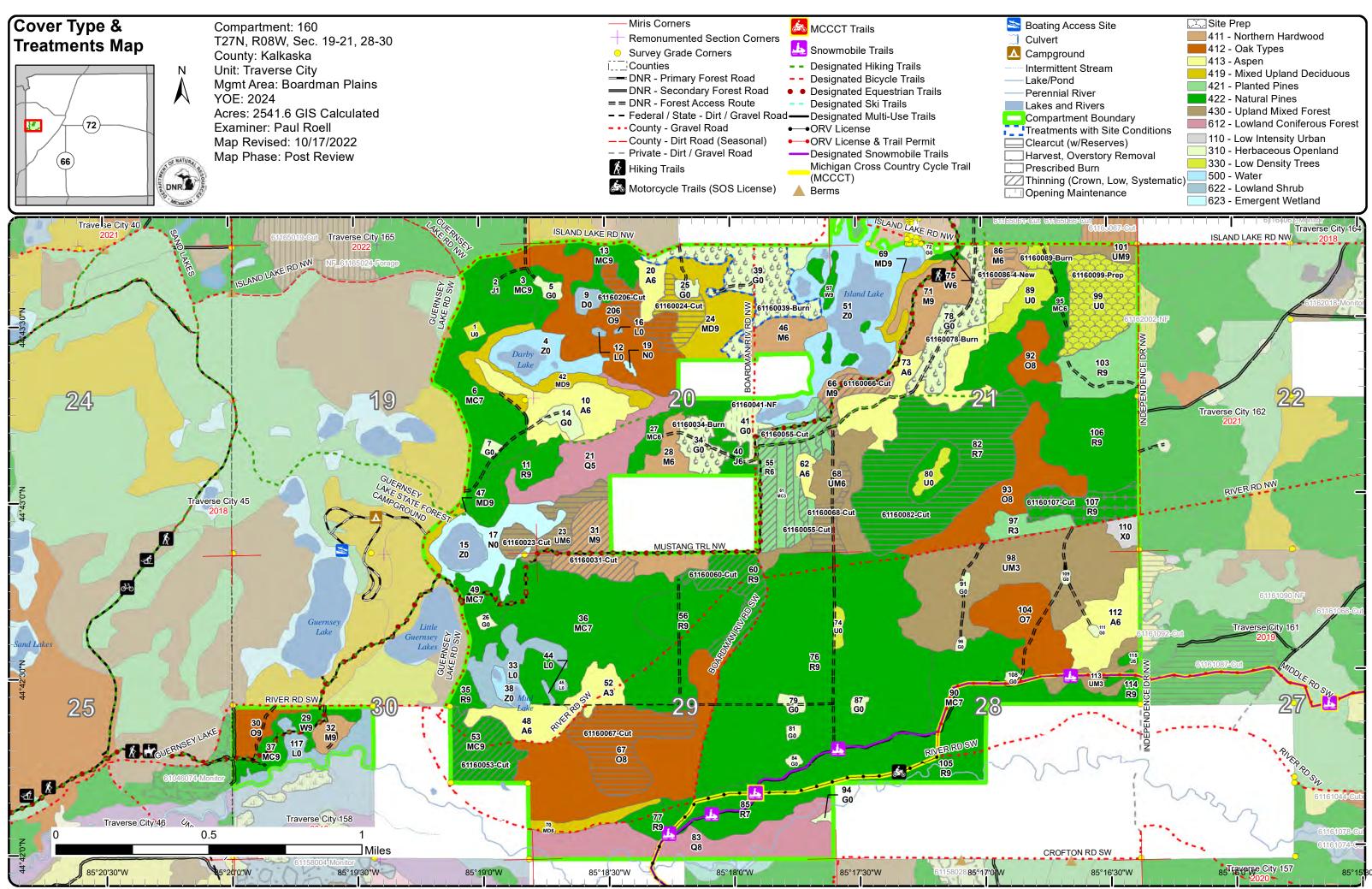
Fire Protection:

This area is within a Zone 6 for DNR wildland fire response.

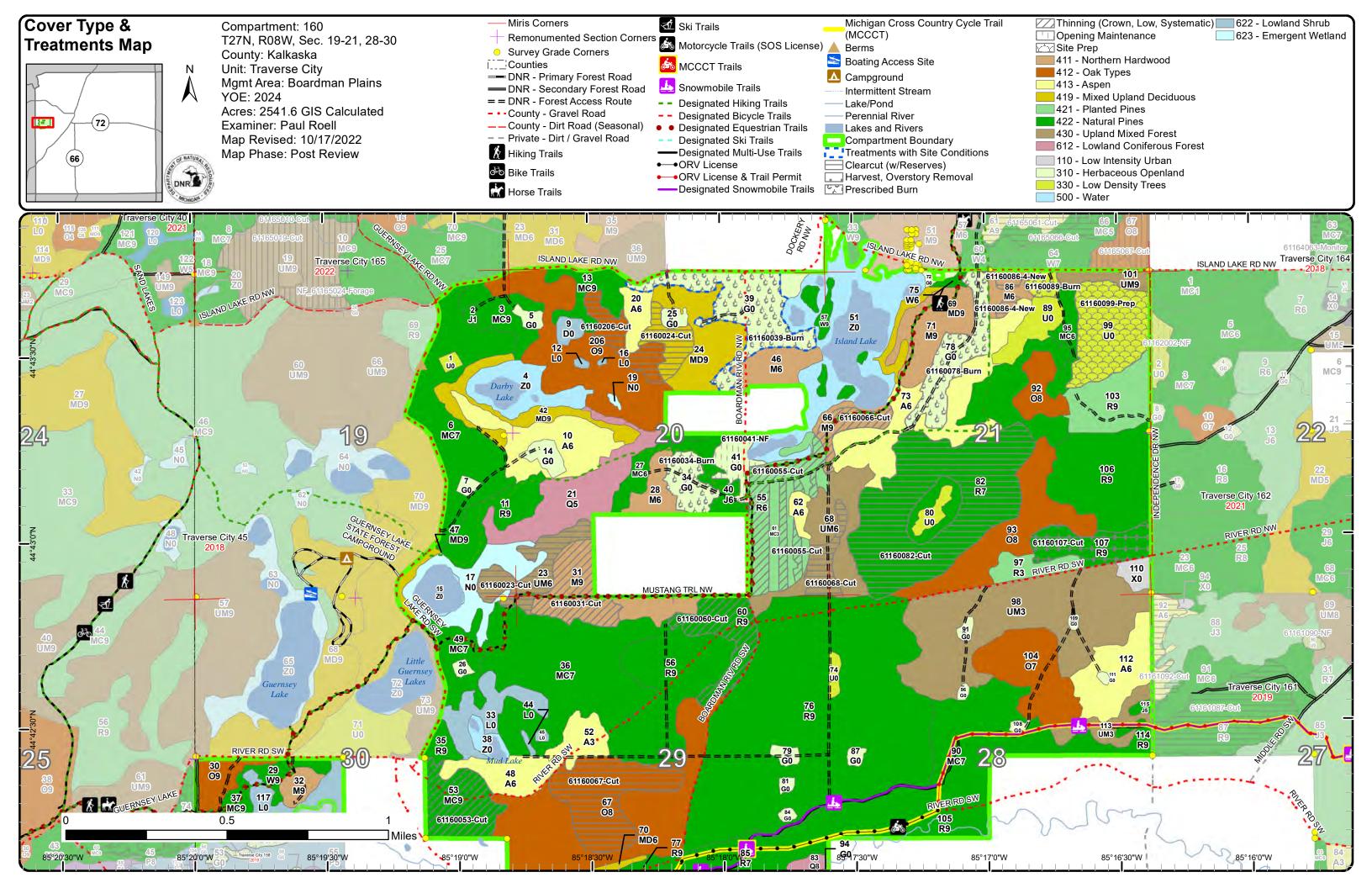
Additional Compartment Information:

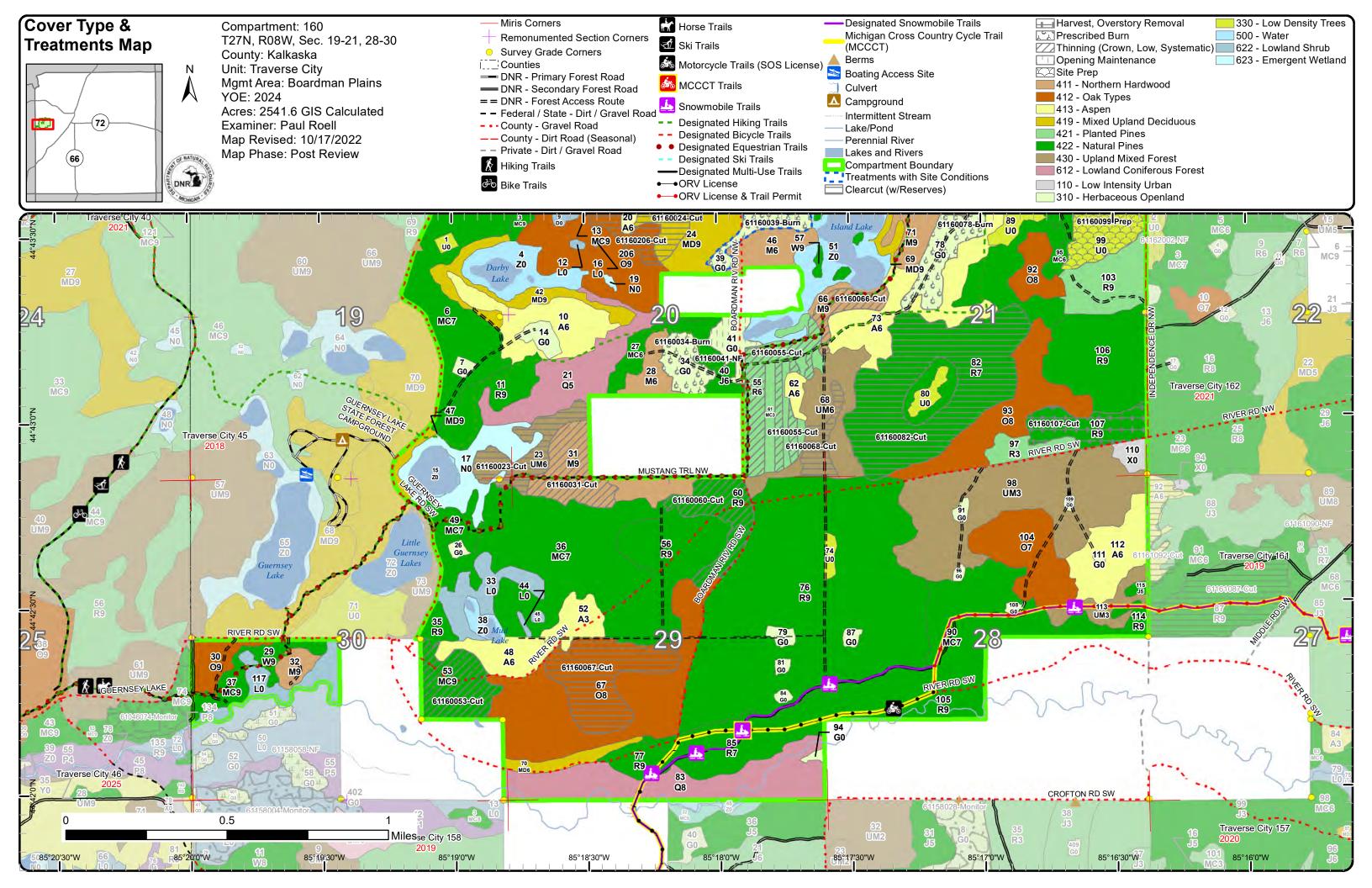
The following reports from the Inventory are attached: Total Acres by Cover Type and Age Class Cover Type by Harvest Method Proposed Treatments – No Limiting Factors Proposed Treatments – With Limiting Factors Stand Details (Forested and Nonforested) Dedicated and Proposed Special Conservation Areas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

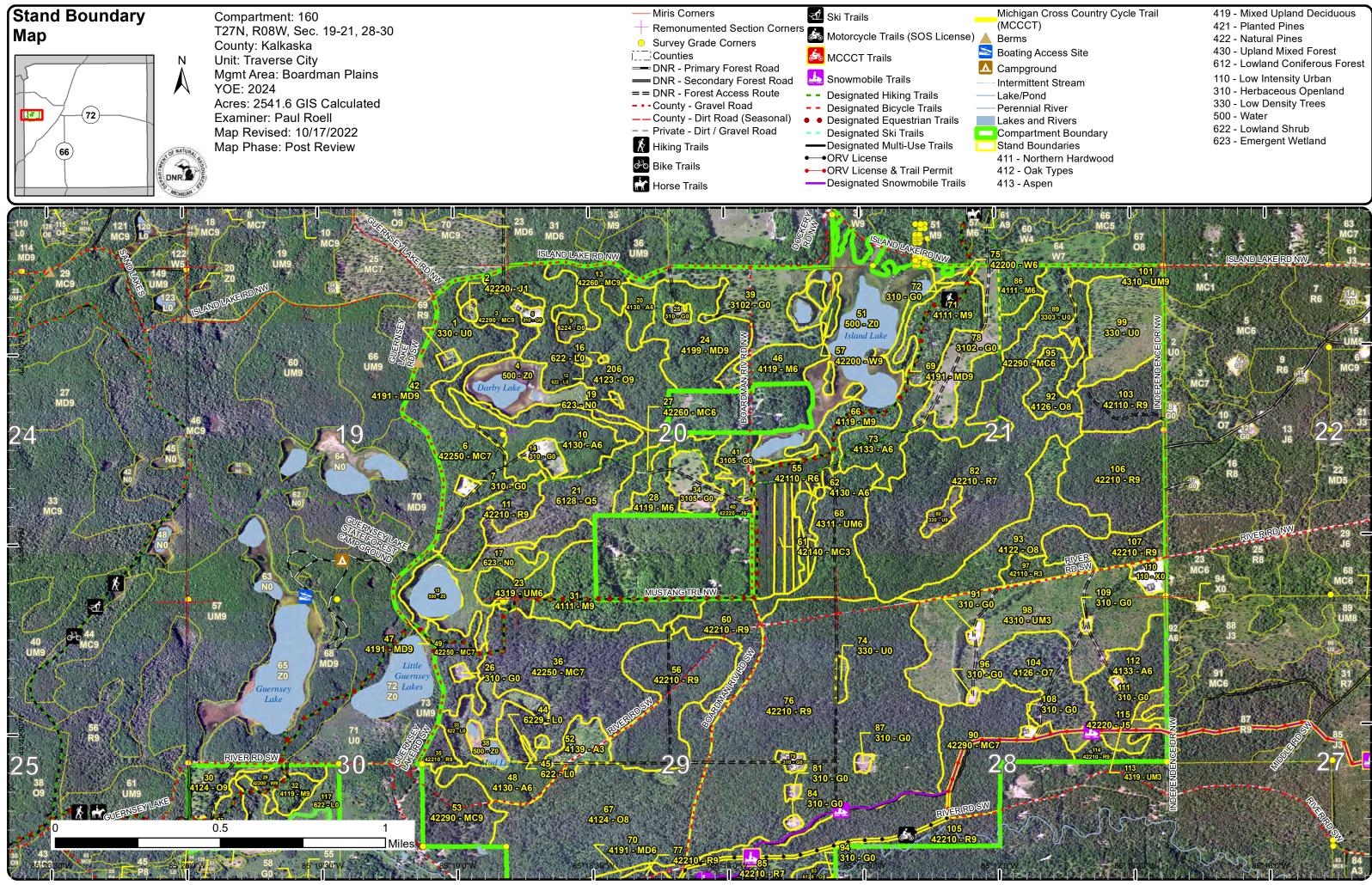
The following information is displayed, where pertinent, on the attached compartment maps: Base feature information, stand boundaries, cover types, and numbers Proposed treatments Site condition boundaries Details on the road access system

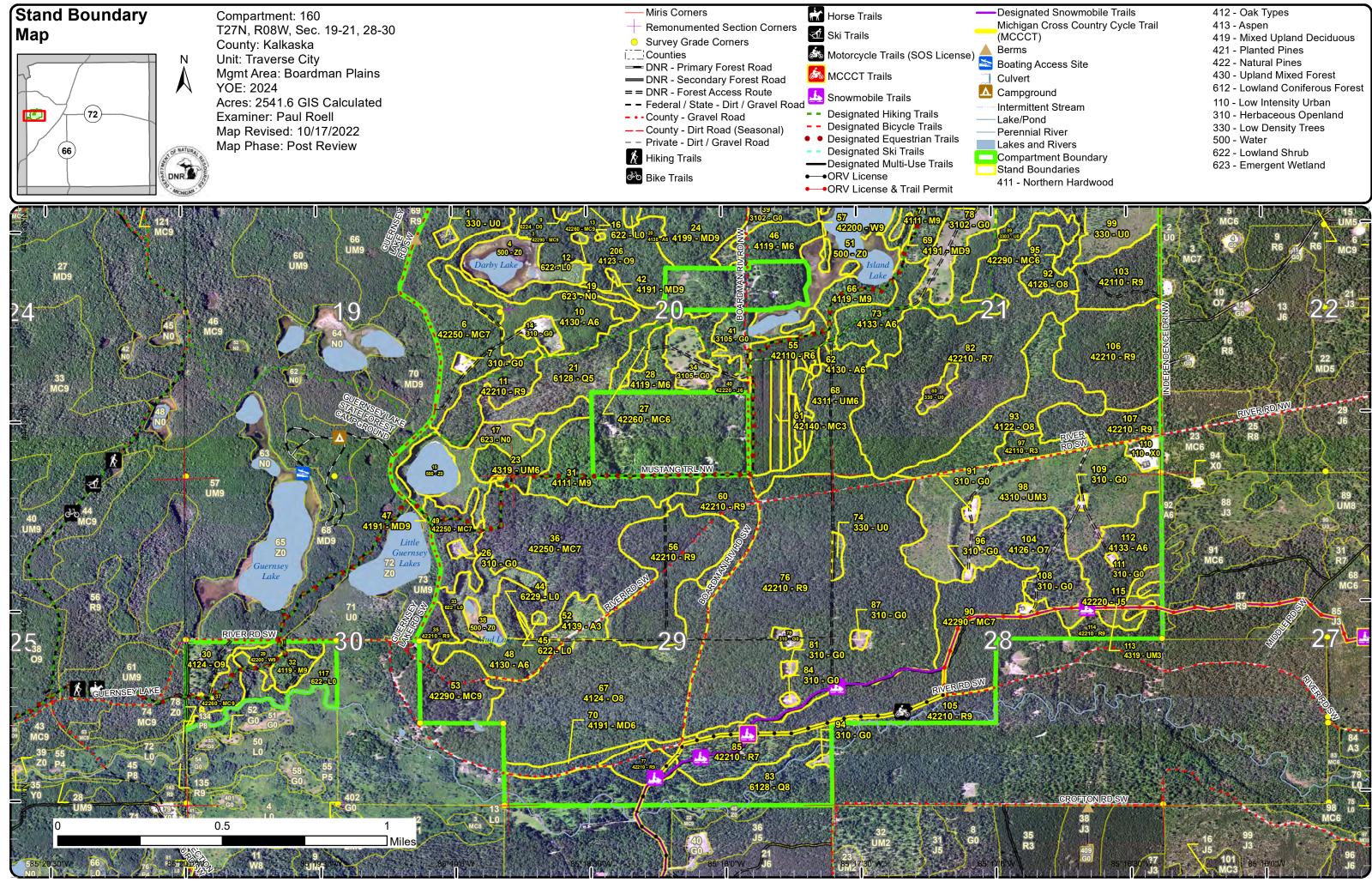


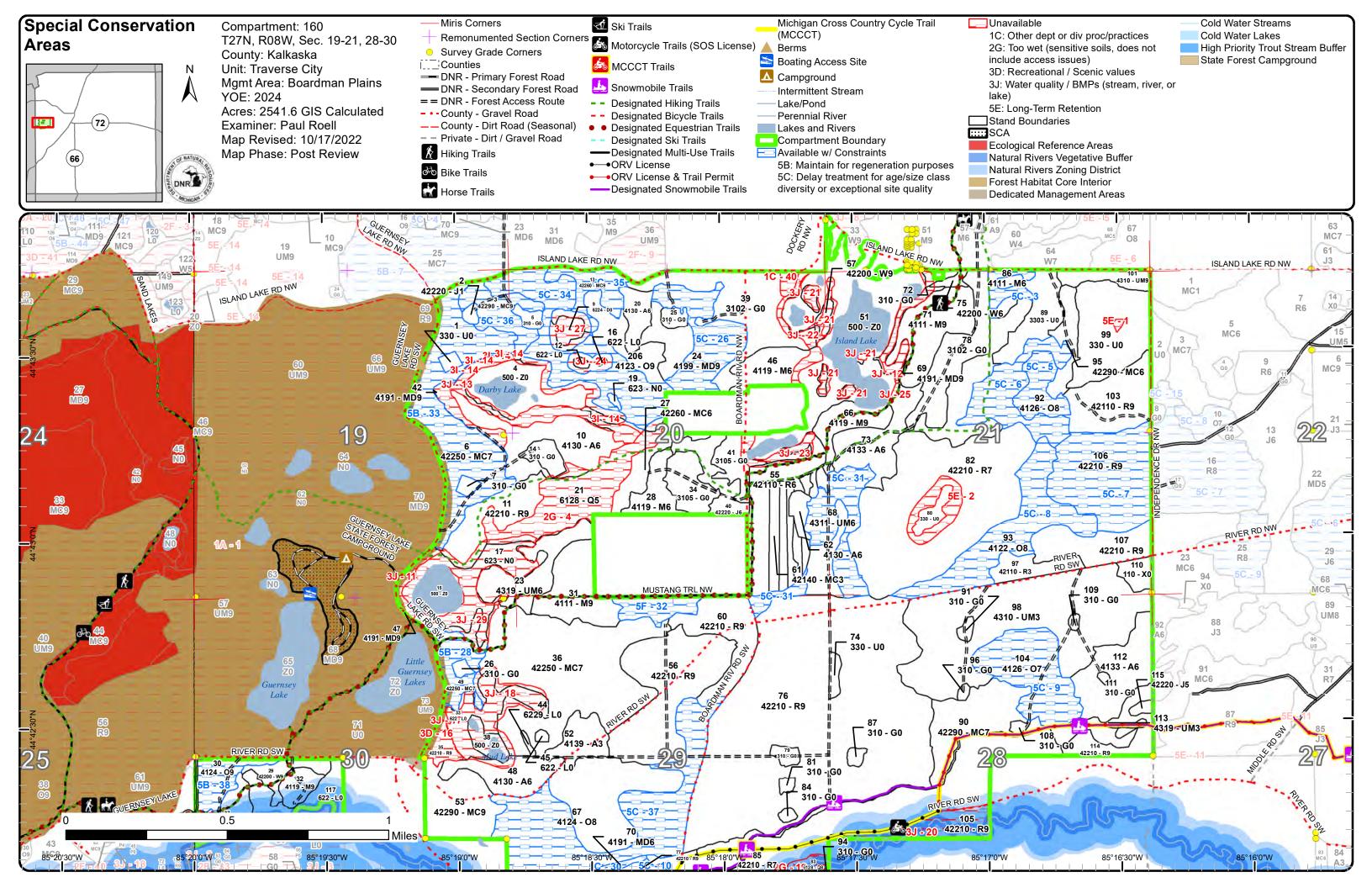
85°15'80"W

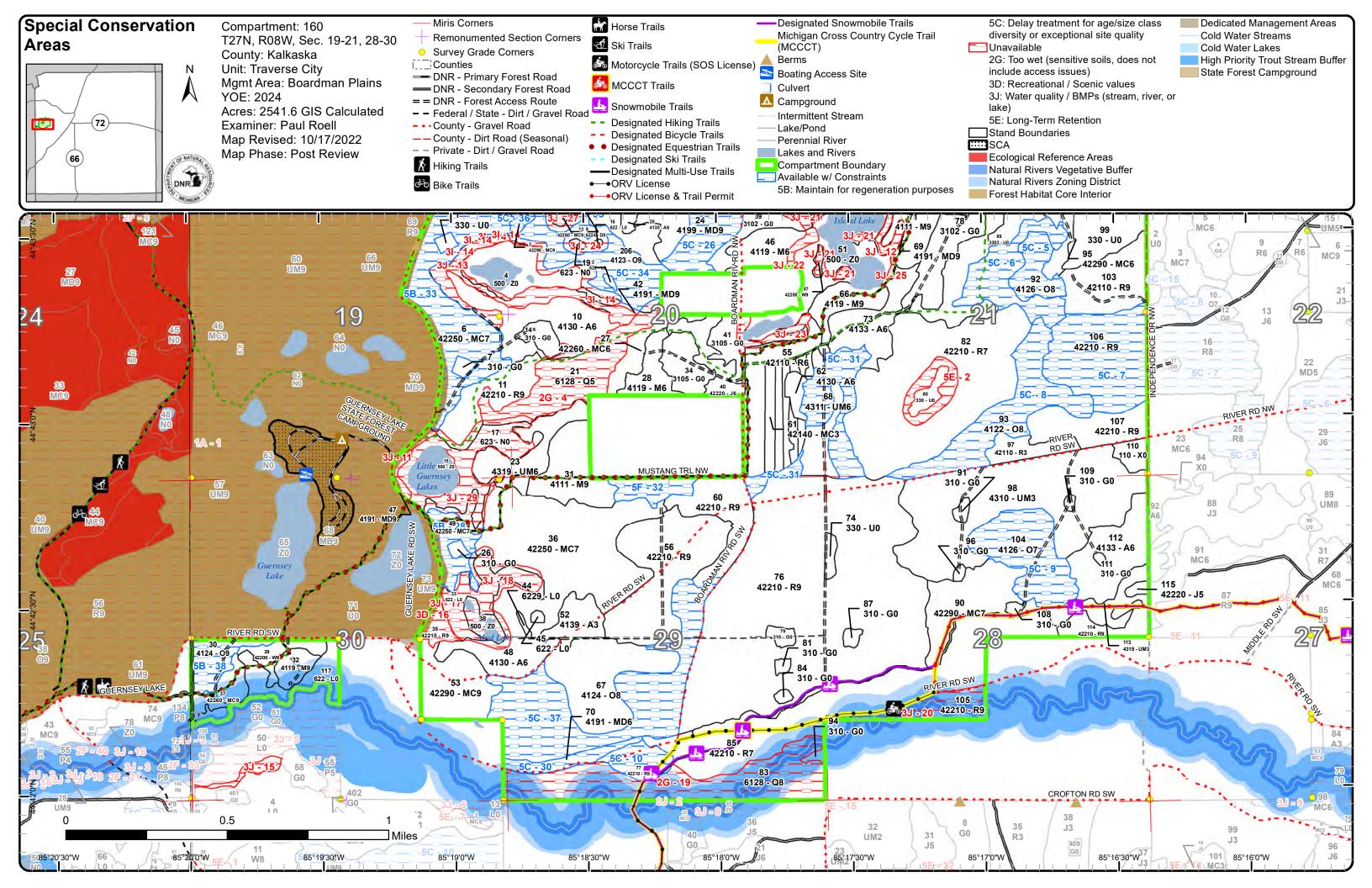












Paul Roell : Examiner

Compartment 160 Year of Entry 2024



Age Class

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Aspen	0	0	13	9	105	30	0	0	0	0	0	0	0	0	0	0	0	0	156
Herbaceous Openland	129	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	129
Jack Pine	0	0	2	0	0	15	0	0	0	0	0	0	0	0	0	0	0	0	17
Low-Density Trees	67	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	67
Lowland Conifers	0	0	0	0	0	0	0	66	41	0	0	0	0	0	0	0	0	0	107
Lowland Shrub	41	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	41
Marsh	28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	28
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	0	58	25	0	0	0	0	0	0	0	83
Natural Mixed Pines	0	0	0	11	0	0	0	11	212	55	86	0	0	0	0	0	0	0	374
Northern Hardwood	0	0	0	0	0	0	0	0	25	100	0	0	0	0	0	0	0	0	125
Oak	0	0	0	0	0	0	0	0	0	299	13	0	0	0	0	0	0	0	312
Planted Mixed Pines	0	0	0	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14
Red Pine	0	0	0	10	0	0	0	36	462	204	23	0	0	0	0	0	0	0	734
Treed Bog	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Upland Mixed Forest	0	0	123	0	0	0	0	9	42	22	0	0	0	0	0	0	0	0	196
Urban	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Water	129	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	129
White Pine	0	0	0	0	0	0	0	0	10	9	0	0	0	0	0	0	0	0	19
Total	404	0	138	44	105	45	0	122	792	747	147	0	0	0	0	0	0	0	2541



Acres of Harvest

Commercial Harvest - 357 Harvests with Site Condition - 0 Next Step Harvest - 0 Habitat Cut - 3

Cover Type by Harvest Method

				A COLORIDO	to to to	and the second second	icon 2	Oron Contraction	And	es en	Stop 1.50	L. S. C. L.
Mixed Upland Deciduous		11	0	0	0	0	0	0	0	0	11	
Natural Mixed Pines		0	0	0	0	0	29	0	0	0	29	
Northern Hardwood		3	0	0	0	0	37	0	0	0	41	
Oak		59	0	0	0	0	0	0	0	0	59	
Red Pine		107	0	0	0	0	58	23	0	0	187	
Upland Mixed Forest		33	0	0	0	0	0	0	0	0	33	
	Total	214	0	0	0	0	124	23	0	0	360	

Proposed and Next Step Treatments by Method

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Current		360	40	0	0	88	0	0	0	11	499	1
Next Step		0	213	253	0	11	146	400	0	88	1111	1
	Total	360	253	253	0	99	146	400	0	99	1610]

	Tr	averse City	Mgt. Unit		Repor	t3 ˈ	Treatments		Compartme	nt: 160	AND OF NATURAL PREBO
S t									Year of Ent	ry: 2024	
a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut

Approved Treatments:

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Upland Forest Well 140 Retention Prescription Cut all trees 2 inches and larger, leave scattered oaks and pine. Leave all cedar and hemlock. Standard area retention. Protect the hiking species: and horse trail during harvest. Limit harvest to winter time to protect any wet areas. Next Step Monitoring, Natural Regen (Intermediate) Treatments: Acceptable aspen, red maple, and mixed conifer Regen: Other Comment: Site Condition Proposed Start Date: 10/1 /2023 24 61160024-Cut 11.4 4199 - Other Mixed Sawtimber 82 81-110 Harvest Clearcut with 4122 - Oak, Pine Even-Aged 1 Prescription Cut all trees 4 inches and larger. Leave some scattered oaks and pine. Protect any advance oak and pine regen. Retention will be a porti Species: of the stand that hash't been harvested. Next Step Monitoring, Natural Regen (Re-Inventory) Ireatments: Acceptable oak, aspen, red maple and mixed pine. Regen: Other Condition Proposed Start Date: 10/1 /2023 Econdition Proposed Start Date: 10/1 /2023		60023-Cut	22.1	4319 - Mixed	Poletimber	86	111-	Harvest	Clearcut with	413 - Aspen	Even-Aged	No
Spess: and horse trail during harvest. Limit harvest to winter time to protect any wet areas. Next Step: Monitoring, Natural Regen (Intermediate) Treatments: assen, red maple, and mixed conffer Regen: assen, red maple, and mixed conffer Regen: assen, red maple, and mixed conffer Regen: assen, red maple, and mixed conffer Proposed Start Date: 10/1/2023 24 61160024-Cut 11.4 4199 - Other Mixed Sawtimber 82 81-110 Proposed Start Date: 10/1/2023 Retention Retention Retention Prescription Cut all trees 4 inches and larger. Leave some scattered oaks and pine. Protect any advance oak and pine regen. Retention will be a portilise a sport of the stand that hasn't been harvested. Next Step. Monitoring, Natural Regen (Re-Inventory) Readiments: association association Rescription Cut all trees 4 inches and mixed pine. Reagen: comment: Site Condition Prescription Cat 4111 Stapple, Sawtimber 86 111. Harvest Crown Thinning 411Northern Even-Aged 14478 Treatments: Step: Hard Mast Well 140 Hard Wood Hard Mast Association Hard Mast Association Hard Mas	25 0110	0023-0ut	22.1			00		That vest		что - дорен	EvenAged	
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Regen: Other Comment: Site Condition Proposed Start Date: 10/1 /2023 24 61160024-Cut 11.4 4199 - Other Mixed Sawtimber 82 81-110 Harvest Clearcut with 4122 - Oak, Pine Even-Aged I Retention Internation Prescription Cut all trees 4 inches and larger, Leave some scattered oaks and pine. Protect any advance oak and pine regen. Retention will be a porti Species: of the stand that hasn't been harvested. Next.Step Monitoring, Natural Regen (Re-Inventory) Treatments: Acceptable: oak, aspen, red maple and mixed pine. Regen: Other Comment: Site Condition Proposed Start Date: 10/1 /2023 110 31 61160031-Cut 26.4 4111 - S.Maple, Sawtimber 86 111. Harvest Crown Thinning 411 - Northern Even-Aged I Hardwood Hardwood Internation Prescription mark stand to a residual BA of approximately 80 sqft per acre. Protect recreation trails during harvest and limit harvest time to the winter Species: months Next Step Treatments: Acceptable: Regen: Comment: Site Condition Site Condition Site Condition Site Condition Prescription			ng, Natura	al Regen (Intermec	liate)							
Comment: Site Condition Proposed Start Date: 10/1 / 2023 24 61160024-Cut 11.4 4199 - Other Mixed Sawtimber 82 81-110 Harvest Clearcut with 4122 - Oak, Pine Even-Aged I Prescription Cut all trees 4 inches and larger. Leave some scattered oaks and pine. Protect any advance oak and pine regen. Retention will be a portion of the stand that hasn't been harvested. Next Step Monitoring, Natural Regen (Re-Inventory) Treatments: Acceptable oak, aspen, red maple and mixed pine. Regen: Next Step Nonitoring, Natural Regen (Re-Inventory) Site Condition Proposed Start Date: 10/1 /2023 10/1 /2023 31 61160031-Cut 26.4 4111 - S.Maple, Sawtimber 86 111- Harvest Crown Thinning 411 - Northern Even-Aged I Hard Mast Well 140 Hardwood		<u>e</u> aspen, r	ed maple	, and mixed conife	r							
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24 61160024-Cut 11.4 4199 - Other Mixed Sawtimber 82 81-110 Harvest Clearcut with 4122 - Oak, Pine Even-Aged I Prescription Cut all trees 4 inches and larger. Leave some scattered oaks and pine. Protect any advance oak and pine regen. Retention will be a porti Specs: of the stand that hasn't been harvested. Next Step Monitoring, Natural Regen (Re-Inventory) Treatments: Acceptable oak, aspen, red maple and mixed pine. Regen: Other Comment: Site Condition Prescription mark stand to a residual BA of approximately 80 sqft per acre. Protect recreation trails during harvest and limit harvest time to the winter Specs: Prescription mark stand to a residual BA of approximately 80 sqft per acre. Protect recreation trails during harvest and limit harvest time to the winter Specs: Next Step Treatments: Acceptable Regen: Other Comment: Site Condition Site Condition	Site Condi	ition										
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Ireatments: Acceptable oak, aspen, red maple and mixed pine. Regen: Other Comment: Site Condition Proposed Start Date: 10/1 /2023 31 61160031-Cut 26.4 4111 - S.Maple, Sawtimber 86 111- Harvest Crown Thinning 411 - Northern Even-Aged Hard Mast Well 140 Hardwood Ren-Aged Hardwood Ren-Aged I Hardwood Association Prescription mark stand to a residual BA of approximately 80 sqft per acre. Protect recreation trails during harvest and limit harvest time to the winter Specs: Next Step Treatments: Acceptable Regen: Other Comment: Site Condition						attered	d oaks and	pine. Protect a	any advance oak a	nd pine regen. Re	tention will be a	portio
Regen: Other Comment:			ng, Natura	al Regen (Re-Inver	ntory)							
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Treatments: Acceptable Regen: Other Comment: Site Condition			ind to a re		oximately 80	sqft pe	er acre. Pr	otect recreatio	n trails during harve	est and limit harve	st time to the wi	nter
Regen: Other Comment: Site Condition												
Comment: Site Condition		<u>e</u>										
		:										
Proposed Start Date: 10/1 /2023	Site Condi	ition										
	Proposed	Start Date:	10/1 /202	23								

S t		Traverse Ci	ity Mgt. Unit		Repoi	rt3 1	Freatments		Compartme Year of Entr		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
34	61160034 Burn	I- 13.7	3105 - Mixed Upland Herbaceous	Nonstock S	ed	lmmatu re	Burn	Opening	3105 - Mixed Upland Herbaceous		No
Presc Specs	<u>s:</u> free fort	quency of the os. Remove	onal basis. The goal burns will be based e exotics as needed b mast bearing shrubs	l on current by herbicidi	s needs ng or ot	s of restora her metho	ation such as rec ods. Maintain as	ducing woody encr s needed with mov	oachment or pro	moting grass	es versus
<u>Next S</u> Treatr	<u>Step</u> No <u>ments:</u>	nForestMgt,	Other - Specify								
Rege											
<u>Other</u> Comn											
	<u>Condition</u>										
Propo	sed Start D	<u>)ate:</u> 10/1 /2	2023								
39	61160039 Burn)- 42.4	3102 - Grass	Nonstock	ed	Unspec ified	Burn	Opening	3205 - Mixed Upland Shrub		No
Accer Reger Other Comn Site C	pla <u>Step</u> Nor <u>nents:</u> <u>Dtable</u> <u>n:</u> WL <u>nent:</u> <u>Condition</u>	nting native r nForestMgt, i	e exotics as needed to mast bearing shrubs Other - Specify y good grass compo 2023	or trees, t	burning,	or remova	al of woody encr	oachment.			
41	61160041-	NF 11.4	3105 - Mixed Upland Herbaceous	Nonstock	ed		NonForestMgt	Brush Cutting	3205 - Mixed Upland Shrub		N
Specs Next S Treatr Accep Reger Other Comm	<u>s:</u> and <u>Step</u> Bur <u>ments:</u> <u>otable</u> <u>n:</u>		ove woody encroach for wildlife food and d		aintain u	pland bru:	sh/grassland coi	mmunity. Leave s	cattered mast pro	oducing trees	and shrul
<u>Propc</u>	<u>ised Start E</u>	D <u>ate:</u> 10/1 /2	2023								

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S t	Tra	verse Cit	y Mgt. Unit	I	Repoi	rt3 ⊺	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	Michigan Habitat Cut
53	61160053-Cut	28.6	42290 - Natural Mixed Pine	Sawtimber Well	r 88	141- 170	Harvest	Crown Thinning	429 - Mixed Upland Conifers	Even-Aged	No
<u>Spe</u> <u>Nex</u>	<u>cs:</u> There v		d red maple. Mark p as to walk through v	oine to a res		A 100-120		arvest. Probably will			hen
<u>Acc</u> Reg	eptable_ en:										
Othe											
	Condition bosed Start Date:	· 10/1 /2(123								
55	61160055-Cut	32.6	42110 - Planted Red Pine	Poletimbe Well	r 68	141- 170	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
<u>Spe</u> <u>Nex</u>	<u>cs:</u> necess <u>t Step</u>				20 sqft		Protect recreati	on trails during harv		HRD specs if	
	<u>nment:</u>										
	Condition										
-	bosed Start Date:										
60	61160060-Cut	25.4	42210 - Natural Red Pine	Sawtimber Well	r 70	141- 170	Harvest	Crown Thinning	4221 - Natural Red Pine	Even-Aged	No
<u>Spe</u>			esidual BA of appro	oximately 10)0 sqft∣	per acre. I	Protect recreati	on trails during harv	est and consider	HRD specs if	
Trea	eptable										
Reg Othe	en:										
	<u>nment:</u>										
	<u>Condition</u>	10/1 /20)23								
66	61160066-Cut	10.8	4119 - Mixed Northern Hardwoods	Sawtimber s Well	r 75	111- 140	Harvest	Crown Thinning	411 - Northern Hardwood	Even-Aged	No
<u>Pres</u> Spe		and to a i) sqft p		rotect recreatio	n trails during harve		est time to the	winter
	<u>t Step</u> atments:										
<u>Acc</u> Reg	eptable_ en:										
Othe											
Site	Condition										
0110											

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Report 3 -- Treatments

Compartment: 160	
Year of Entry: 2024	



a Treatme d Name				-		reatments		Compartmen Year of Entry		DNR DNR
67 6116006		Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habita Cut
	7 -Cut 43.3	3 4124 - Red with White Oak	Sawtimbe Medium	r 80	1-50	Harvest	Clearcut with Retention	4122 - Oak, Pine	Even-Aged	No
		inches and larger. Le at hasn't been harve		cattere	d oaks and	d pine. Protect	any advance oak a	nd pine regen. Re	tention will be	e a portion
<u>Next Step</u> M <u>Treatments:</u>	lonitoring, Na	tural Regen (Re-Inve	entory)							
<u>Acceptable</u> c <u>Regen:</u> Other	ak, aspen, re	d maple, and mixed	pine							
Comment:										
Site Condition Proposed Star	Date: 10/1	/2023								
68 6116006		2 4311 - Pine, Asper Mix	n Poletimbe Well	r 70	81-110	Harvest	Clearcut with Retention	4139 - Aspen, Mixed Deciduous	Even-Aged	No
	ut all trees 2 ne site conditi	inches and up, leave on layer.	e a few scatte	ered oa	ks and pin	es. Retention r	needs to be identifie		s set up and	identified ir
Next Step M Treatments:	lonitoring, Na	tural Regen (Re-Inve	entory)							
<u>Acceptable</u> a <u>Regen:</u>	spen, red ma	ple, oak and mixed p	oine.							
<u>Other</u> Comment:										
Site Condition										
Proposed Star	<u>: Date:</u> 10/1	/2023								
78 611600 Bur		0 3102 - Grass	Nonstocke	ed		Burn	Opening	3105 - Mixed Upland Herbaceous		No
Specs: fi	equency of th orbs. Remov	tional basis. The goa the burns will be base re exotics as needed mast bearing shrubs	d on currents by herbicidir	s needs ng or ot	s of restora her metho	ation such as re ds. Maintain a	educing woody encloses needed with mov	roachment or prom	noting grasse	s versus
<u>Next Step</u> N <u>Treatments:</u>	onForestMgt,	, Other - Specify		Ū.		ŗ				
<u>Acceptable</u> <u>Regen:</u>										
0.4	robably anoth	ner old farm site. Be	careful abou	ıt any p	ossible str	ructural remnar	nts.			
Other F Comment:										

S t	Tra	averse Cit	y Mgt. Unit		Repo	rt 3 ⁻	Treatments		Compartmen Year of Entry		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	Habitat Cut
82	61160082-Cut	106.5	42210 - Natural Red Pine	Sawtimbe Poor	er 82	1-50	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	No
<u>Pres</u> Spe	ecs:		uire low stumps ar	nd slash ma	Ũ		01	o facilitate future pla			
Nov			en mapped out in t					Planting Initial Pl	ant: Monitoring	Artificial Pogo	p(1)r
			; Monitoring, Artif			Silciue, Ae	enai - Sile Flep,	Planting, Initial Pl	ant, montoring,	Animciai Rege	n(i yi),
<u>Acc</u> Reg		ocked stan	d of planted red pi	ne							
<u>Oth</u> Con	<u>er</u> mment:										
<u>Site</u>	e Condition										
Pro	posed Start Date	<u>e:</u> 10/1/20	23								
86	61160086-4- New	3.3	4111 - S.Maple, Hard Mast Association	Poletimbe Well	er 85	111- 140	Harvest	Clearcut	411 - Northern Hardwood	Even-Aged	Yes
<u>Pres</u> Spe		trees exce	pt oak. No retentic	on so we ca	n maxin	nize reger	neration.				
	<u>kt Step</u> Monito atments:	oring, Natur	al Regen (Re-Inve	ntory)							
_	<u>eptable</u> red ma gen:	aple, sugar	maple, oak, pine a	and aspen a	ispen.						
<u>Oth</u> Con	<u>er</u> nment:										
<u>Site</u>	e Condition										
<u>Pro</u>	posed Start Date	<u>e:</u> 10/1 /20	23								
89	61160089- Burn	4.7	3303 - Mixed Low Density Trees	Nonstock	ed	Immatu re	Burn	Opening	31022 - Warm Season Grass		No
<u>Pres</u> Spe	ecs: freque forbs.	ncy of the l Remove e	burns will be based	l on current by herbicidi	s needs ng or ot	s of restor her metho	ation such as re ods. Maintain a	naintain a grassland ducing woody encr as needed with mow roachment.	oachment or pron	noting grasses	versus
	<u>kt Step</u> NonFo <u>atments:</u>	orestMgt, O	ther - Specify								
	<u>eptable</u> gen:										
<u>Oth</u> Con	<u>er</u> nment:										
<u>Site</u>	Condition										

Proposed Start Date: 10/1 /2023

S t	Tra	verse City	Mgt. Unit		Repoi	rt3 1	Freatments		Compartmen Year of Entry		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	Habitat Cut
99	61160099- Prep		330 - Low-Density Trees	Nonstock	ed O	lmmatu re	SitePrep	Trenching	4211 - Planted Red Pine	Even-Aged	No
Prese Spec		After Rolle	er Chopping Stand								
	<u>Step</u> ; Pest tments:	icide, Skido	der - Site Prep; Pl	lanting, Init	tial Plan	t; Monito	ring, Artificial Re	egen(1yr); Monito	oring, Artificial Reg	en(3yr)	
<u>Acce</u> <u>Rege</u>		tocked Rec	I Pine stand that is	Greater th	nen 80%	o free to g	row				
<u>Othe</u> Com	<u>r</u> Percen <u>ment:</u>	t to Treat =	· 100%								
<u>Site (</u>	Condition										
Prop	osed Start Date	<u>:</u> 10/1 /202	21								
107	61160107-Cut	22.7	42210 - Natural Red Pine	Sawtimbe Well	er 91	81-110	Harvest	Overstory Removal	42260 - Natural Pine, Mixed Deciduous	Even-Aged	No
<u>Prese</u> Spec		e stand ove	erstory protecting a	and releasi	ng unde	erstory pin	e and oak. Mark	some oak and pi	ne to leave.		
	<u>Step</u> tments:										
<u>Acce</u> Rege	eptable_ en:										
<u>Othe</u> Com	<u>r</u> ment:										
<u>Site (</u>	Condition										
Prop	osed Start Date	<u>:</u> 10/1 /202	23								
206	61160206-Cut	15.8	4123 - Red Oak	Sawtimbe Well	er 89	81-110	Harvest	Clearcut with Retention	4122 - Oak, Pine	Even-Aged	No
Prese Spec			hes and larger. Lea lasn't been harves		scattered	d oaks an	d pine. Protect a	iny advance oak a	and pine regen. Re	tention will be	a portion
	<u>Step</u> Monito tments:	ring, Natura	al Regen (Re-Inver	ntory)							
<u>Acce</u> Rege	e <u>ptable</u> oak, as en:	spen, red m	aple and pine								
<u>Othe</u> Com	<u>r</u> ment:										
<u>Site (</u>	Condition										
Prop	osed Start Date	<u>:</u> 10/1 /202	23								

Total Treatment 499.1 Acreage Proposed:

Report 4 – Site Conditions

Traverse City Mgt. Unit

Paul Roell : Examiner

Compartment: 160 Year of Entry: 2024

Availability for Management

		•											
Total	Acres	Acres Avail	Acres		Domina	nt Site	e Con	dition	s				
Acres	Available	With Condition	Not Available		5B	5C	5F	1C	2G	3D	31	3J	5E
156	152	0	4	Aspen					2		0	2	
129	120	0	9	Herbaceous Openland				2	0			7	
17	17	0	0	Jack Pine									
67	66	0	1	Low-Density Trees									1
107	1	0	106	Lowland Conifers					103		2	2	
41	21	0	20	Lowland Shrub								20	
28	2	0	26	Marsh								26	
83	12	40	31	Mixed Upland Deciduous	0	40			0		17	14	
374	250	111	13	Natural Mixed Pines	81	30					0	12	
125	105	17	3	Northern Hardwood		7	11					3	
312	59	240	13	Oak	13	227			1		6	6	
14	14	0	0	Planted Mixed Pines									
735	604	93	38	Red Pine		93				6		22	9
4	0	0	4	Treed Bog								4	
196	165	31	0	Upland Mixed Forest		31			0			0	
6	6	0	0	Urban									
129	117	0	12	Water							1	11	
19	12	0	7	White Pine								7	
2,542	1,723	533	286	Total Forested Acres	94	428	11	2	106	6	27	135	10
-	68%	21%	11%	Relative Percent		-		-	-	-	-	-	
	0070	Z170	1170	Relative Fercent									

*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	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
2	Unavailable	5E: Long-Term Retention	9	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						

		se City Mgt. Unit I Roell : Examiner	I	Report 4 – Site Con	ditions	Compartment: 160 Year of Entry: 2024		
3	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	7	Unspecified	Unspecified	Unspecified	Unspecified	
	Comments:							
4	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	39	Unspecified	Unspecified	Unspecified	Unspecified	
	Comments:							
5	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	14	Unspecified	Unspecified	Unspecified	Unspecified	
	Comments: Holding the remain	nder this stand to evaluate how e	ffective th	ne adjacent harvest is at	producing regeneration			
6	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	29	Unspecified	Unspecified	Unspecified	Unspecified	
	Comments: Holding the remain	nder of this stand to evaluate hov	v effective	the harvest is at produc	ing regeneration			
7	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	53	Unspecified	Unspecified	Unspecified	Unspecified	

		se City Mgt. Unit I Roell : Examiner	Report 4 – Site Conditions			Compartment: 160 Year of Entry: 2024		
8	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	45	Unspecified	Unspecified	Unspecified	Unspecified	
C	Comments:							
9	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	38	Unspecified	Unspecified	Unspecified	Unspecified	
	Comments: Holding the remain	ider this stand to evaluate how e	effectiv	e the adjacent harvest is at	producing regeneration			
10	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	11	Unspecified	Unspecified	Unspecified	Unspecified	
C	Comments:							
11	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	5	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified	
C	Comments:							
12	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	7	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified	
C	Comments:							
13	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	4	2F: Too steep	5E: Long-Term Retention	Unspecified	Unspecified	
	Comments:							

	Traverse City Mgt. Unit Paul Roell : Examiner			Report 4 – Site Condi	tions	Compartment: 160 Year of Entry: 2024		
14	Unavailable	(Inactive)3I: Historical / archeological (add locked comments)	27	Unspecified	Unspecified	Unspecified	Unspecified	
C	comments:							
15	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	4	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified	
C	comments:							
16	Unavailable	3D: Recreational / Scenic values	6	Unspecified	Unspecified	Unspecified	Unspecified	
С	comments:							
17	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	1	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified	
С	comments:							
18	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	31	Unspecified	Unspecified	Unspecified	Unspecified	
C	comments:							
19	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	66	Unspecified	Unspecified	Unspecified	Unspecified	
C	comments:							

Report 4	4 – Site	Conditions
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Compartment: 160

Traverse City Mgt. Unit

20	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	17	Unspecified	Unspecified	Unspecified	Unspecified
C	comments:						
21	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	8	Unspecified	Unspecified	Unspecified	Unspecified
C	comments:						
22	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	8	Unspecified	Unspecified	Unspecified	Unspecified
C	comments:						
23	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	7	Unspecified	Unspecified	Unspecified	Unspecified
C	comments:						
24	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	5	Unspecified	Unspecified	Unspecified	Unspecified
C	comments:						
25	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	1	Unspecified	Unspecified	Unspecified	Unspecified
_	comments:						

		se City Mgt. Unit I Roell : Examiner		Report 4 – Site Cor	iditions	Compartment: 160 Year of Entry: 2024		
26	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	31	Unspecified	Unspecified	Unspecified	Unspecified	
	comments: lolding the remain	der of this stand to evaluate how	w effective	e the harvest is at produc	ing regeneration			
27	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	9	Unspecified	Unspecified	Unspecified	Unspecified	
C	comments:							
28	Available	5B: Maintain for regeneration purposes	14	Unspecified	Unspecified	Unspecified	Unspecified	
C	comments:							
29	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	34	Unspecified	Unspecified	Unspecified	Unspecified	
C	comments:							
30	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	9	Unspecified	Unspecified	Unspecified	Unspecified	
C	comments:							
31	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	31	Unspecified	Unspecified	Unspecified	Unspecified	
C	comments:							

Report 4 – Site Conditions

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32	Available	5F: Evaluated for Forest Health Considerations	11	Unspecified	Unspecified	Unspecified	Unspecified			
	Comments:									
33	Available	5B: Maintain for regeneration purposes	67	Unspecified	Unspecified	Unspecified	Unspecified			
	Comments:									
34	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	48	Unspecified	Unspecified	Unspecified	Unspecified			
	Comments: Holding the remainder of this stand to evaluate how effective the harvest is at producing regeneration									
35	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	13	Unspecified	Unspecified	Unspecified	Unspecified			
	Comments:									
36	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	17	Unspecified	Unspecified	Unspecified	Unspecified			
	Comments:									
37	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	81	Unspecified	Unspecified	Unspecified	Unspecified			
	Comments: Holding the remair	nder this stand to evaluate how e	ffective	the adjacent harvest is at	producing regeneration					

or 13 oses	Unspecified	Unspecified	Unspecified	Unspecified
r div 2 S	Unspecified	Unspecified	Unspecified	Unspecified
	iv 2	iv 2 Unspecified	iv 2 Unspecified Unspecified	iv 2 Unspecified Unspecified Unspecified



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: 160 Year of Entry 2024



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.

Conservati Area	on 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 th groundwater inflows, or are located in colder (northern) areas of Director's action and designated as trout resources by Fisheries	ties 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.	cies (e.g., slimy sculpin) to persist from ese conditions due to substantial
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosystems i influences the aquatic ecosystem and vice-versa. Because of th streams and open water wetlands, riparian areas harbor a high communities are ecologically and socially significant in their effe as aesthetics, habitat, bank stability, timber production, and the	e unique conditions adjacent to lakes, diversity of plants and wildlife. Riparian ects on water quality and quantity, as well
HCVA	Dedicated Management Areas	Such areas are dedicated by the DNR Director for specific manarules, as governed by Part 5, Department of Natural Resources, 324.504). Section 38 of the Administrative Procedures Act (MCL the promulgation of rules. This is an active program, with one pr DNR.	, of the NREPA (MCL 324.502(2) and _ 24.238) provides for public requests for
HCVA	Natural Rivers	There are two Natural Rivers datasets which are derived from s approved distance from the river centerlines. The Natural River most Natural Rivers. The Vegetative Buffer ranges from 25 to 1	s Zoning District is a 400 foot buffer for

Traverse	City	Mgt.	Unit
11440100	uly	mg.	0



Stan	d Level 4 Co	over Type		Size Dei	nsity	Acres	Stand Age	BA Range	Managed S	ite	General Comments
1	330 - Low-I	Density Tre	ees	Nonsto	cked	1.8			No		Stand is an old well site (plugged 1980) being encroached upon by low density conifer trees. Will probably have 25%+ cover next YOE and will therefore be typed as a forested stand at that point in time.
2	42220 - Nat	ural Jack P	Pine	Sapling	Poor	1.6	16	Immature	N/A		small opening, old gas well (plugged 1975). filling in w/ jp volunteers.
	Canopy Species	% Cover	Size Class	DBH	Age						
	White Pine	5	Sapling	3							
	Jack Pine	95	Sapling	3	16						
3	42290 - Natu	ural Mixed F	Pine	Sawtimbe	er Well	16.8	85	111-140	N/A		Red and white pine stand. Good quality, both pine species, growing well.
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Car	nopy Species	Density	Avg. Height	Size	Oak is of descent quality.
	Red Oak	20	Log/Pole	12		Red	d Maple	Medium	10 - 20 feet	Sapling	
	White Oak	5	Pole	8		Wh	ite Pine	Medium	5 - 10 feet	Sapling	
	White Pine	35	Log/Pole	12							-
	Red Pine	40	Log/Pole	12	85						
4	500 -	Water		Nonsto	cked	24.8			No		Darby Lake.
5	310 - Herbac	eous Open	nland	Nonsto	ckod	2.8					A stine well site and store as ten by LIDA Otate Kalles by 0.00
					CKEU	2.0					Active well site and storage tanks. USA State Kalkaska 3-20.
6	42250 -	Pine, Oak		Sawtimbe		66.7	97	1-50	N/A		Shelterwood cut fall 2016-spring 2017. Also cut all trees in county road R-
6	42250 - Canopy Species			Sawtimbe	er Poor	66.7	97 nopy Species		N/A Avg. Height	Size	-
6				Sawtimbe	er Poor	66.7 Sub-Car				Size Sapling	Shelterwood cut fall 2016-spring 2017. Also cut all trees in county road R-
6	Canopy Species	% Cover	· Size Class	Sawtimbe DBH	er Poor Age	66.7 Sub-Car Red	nopy Species	Density	Avg. Height		Shelterwood cut fall 2016-spring 2017. Also cut all trees in county road R
6	Canopy Species Red Oak	% Cover 20	Size Class	Sawtimbe DBH 12 10	er Poor Age	66.7 Sub-Car Rec Wh	hopy Species d Maple	Density	Avg. Height 5 - 10 feet	Sapling Sapling Sapling	Shelterwood cut fall 2016-spring 2017. Also cut all trees in county road R-
6	Canopy Species Red Oak White Oak	% Cover 20 15	Size Class Log/Pole Log/Pole	Sawtimber DBH 12 10 12	er Poor Age	66.7 Sub-Car Rec Wh Oa	n opy Species d Maple ite Pine	Density Low Medium	Avg. Height 5 - 10 feet 5 - 10 feet	Sapling Sapling	Shelterwood cut fall 2016-spring 2017. Also cut all trees in county road R-
6	Canopy Species Red Oak White Oak Red Pine	% Cover 20 15 20 45	Size Class Log/Pole Log/Pole Log/Pole Log/Pole	Sawtimber DBH 12 10 12	er Poor Age 97 97 97	66.7 Sub-Car Rec Wh Oa	n opy Species d Maple ite Pine k (spp.)	Density Low Medium Low	Avg. Height 5 - 10 feet 5 - 10 feet 5 - 10 feet	Sapling Sapling Sapling	Shelterwood cut fall 2016-spring 2017. Also cut all trees in county road R-
	Canopy Species Red Oak White Oak Red Pine White Pine 310 - Herbac	% Cover 20 15 20 45	Size Class Log/Pole Log/Pole Log/Pole Log/Pole	Sawtimbe DBH 12 10 12 12 10	er Poor Age 97 97 97 cked	66.7 Sub-Car Rec Wh Oal Bigtoo 2.0 4.0	hopy Species d Maple ite Pine k (spp.) oth Aspen	Density Low Medium Low Low	Avg. Height 5 - 10 feet 5 - 10 feet 5 - 10 feet	Sapling Sapling Sapling	Shelterwood cut fall 2016-spring 2017. Also cut all trees in county road R- O-W.
7	Canopy Species Red Oak White Oak Red Pine White Pine 310 - Herbac	% Cover 20 15 20 45 eous Open	Size Class Log/Pole Log/Pole Log/Pole Log/Pole	Sawtimbe DBH 12 10 12 10 Nonstor	er Poor Age 97 97 97 cked	66.7 Sub-Car Rec Wh Oa Bigtoo 2.0 2.0 4.0 Sub-Car	hopy Species d Maple ite Pine k (spp.) oth Aspen	Density Low Medium Low Low	Avg. Height 5 - 10 feet 5 - 10 feet 5 - 10 feet 5 - 10 feet	Sapling Sapling Sapling	Shelterwood cut fall 2016-spring 2017. Also cut all trees in county road R- O-W.
7	Canopy Species Red Oak White Oak Red Pine White Pine 310 - Herbac	% Cover 20 15 20 45 eous Open	Size Class Log/Pole Log/Pole Log/Pole Log/Pole	Sawtimbe DBH 12 10 12 10 Nonstor	er Poor Age 97 97 97 cked	66.7 Sub-Car Rec Wh Oal Bigtoo 2.0 2.0 4.0 Sub-Car Wh	nopy Species d Maple ite Pine k (spp.) oth Aspen oth Aspen	Density Low Medium Low Low	Avg. Height 5 - 10 feet 5 - 10 feet 5 - 10 feet 5 - 10 feet	Sapling Sapling Sapling Sapling Sapling	Shelterwood cut fall 2016-spring 2017. Also cut all trees in county road R- O-W.
7	Canopy Species Red Oak White Oak Red Pine White Pine 310 - Herbac	% Cover 20 15 20 45	Size Class Log/Pole Log/Pole Log/Pole Log/Pole	Sawtimbe DBH 12 10 12 10 Nonstor	er Poor Age 97 97 97 cked	66.7 Sub-Car Rec Wh Oal Bigtoo 2.0 2.0 4.0 Sub-Car Wh	hopy Species d Maple ite Pine k (spp.) oth Aspen	 Density Low Medium Low Low 	Avg. Height 5 - 10 feet 5 - 10 feet 5 - 10 feet 5 - 10 feet	Sapling Sapling Sapling Sapling	Shelterwood cut fall 2016-spring 2017. Also cut all trees in county road R- O-W.
7	Canopy Species Red Oak White Oak Red Pine White Pine 310 - Herbac 6224 - 1 4130	% Cover 20 15 20 45 eous Open Freed Bog - Aspen	Size Class Log/Pole Log/Pole Log/Pole	Sawtimbe DBH 12 10 10 12 10 Nonstor	er Poor Age 97 97 cked cked	66.7 Sub-Car Rec Wh Oa Bigtoo 2.0 2.0 4.0 Sub-Car Wh Whit 33.4	hopy Species d Maple lite Pine k (spp.) oth Aspen hopy Species lite Pine e Spruce 35	 Density Low Medium Low Low 	Avg. Height 5 - 10 feet 5 - 10 feet 5 - 10 feet No Avg. Height	Sapling Sapling Sapling Sapling Size Sapling Sapling	Shelterwood cut fall 2016-spring 2017. Also cut all trees in county road R- O-W.
7 9	Canopy Species Red Oak White Oak Red Pine White Pine 310 - Herbac 6224 - 1 6224 - 1 4130 Canopy Species	% Cover 20 15 20 45 eous Open Freed Bog - Aspen % Cover	Size Class Log/Pole Log/Pole Log/Pole	Sawtimbe DBH 12 10 12 10 Nonstor Nonstor	er Poor Age 97 97 cked cked	66.7 Sub-Car Rec Wh Oal Bigtoo 2.0 4.0 Sub-Car Wh Whit 33.4 Sub-Car	hopy Species d Maple ite Pine k (spp.) oth Aspen hopy Species ite Pine e Spruce 35 hopy Species	 Density Low Medium Low Low 	Avg. Height 5 - 10 feet 5 - 10 feet 5 - 10 feet 5 - 10 feet No Avg. Height N/A Avg. Height	Sapling Sapling Sapling Sapling Size Sapling Sapling Sapling	Shelterwood cut fall 2016-spring 2017. Also cut all trees in county road R- O-W. Active well site, multiple permit numbers.
7 9	Canopy Species Red Oak White Oak Red Pine White Pine 310 - Herbac 6224 - T 4130 Canopy Species Red Maple	% Cover 20 15 20 45	Size Class Log/Pole Log/Pole Log/Pole Iland	Sawtimbe DBH 12 10 10 12 10 Nonstor Nonstor	er Poor Age 97 97 cked cked	66.7 Sub-Car Rec Wh Oal Bigtoo 2.0 4.0 Sub-Car Wh Whit 33.4 Sub-Car	hopy Species d Maple lite Pine k (spp.) oth Aspen hopy Species lite Pine e Spruce 35	 Density Low Medium Low Low 	Avg. Height 5 - 10 feet 5 - 10 feet 5 - 10 feet No Avg. Height	Sapling Sapling Sapling Sapling Size Sapling Sapling	Shelterwood cut fall 2016-spring 2017. Also cut all trees in county road R- O-W. Active well site, multiple permit numbers.
7 9	Canopy Species Red Oak White Oak Red Pine White Pine 310 - Herbac 6224 - 7 4130 Canopy Species Red Maple White Pine	% Cover 20 15 20 45 eous Open Freed Bog - Aspen % Cover 10 8	Size Class Log/Pole Log/Pole Log/Pole Iand Size Class Pole Pole	Sawtimbe DBH 12 10 12 10 12 10 Nonstor Nonstor Poletimbe DBH 5 6	er Poor Age 97 97 cked cked cked cked	66.7 Sub-Car Rec Wh Oal Bigtoo 2.0 4.0 Sub-Car Wh Whit 33.4 Sub-Car	hopy Species d Maple ite Pine k (spp.) oth Aspen hopy Species ite Pine e Spruce 35 hopy Species	 Density Low Medium Low Low 	Avg. Height 5 - 10 feet 5 - 10 feet 5 - 10 feet 5 - 10 feet No Avg. Height N/A Avg. Height	Sapling Sapling Sapling Sapling Size Sapling Sapling Sapling	Shelterwood cut fall 2016-spring 2017. Also cut all trees in county road R- O-W. Active well site, multiple permit numbers.
7 9	Canopy Species Red Oak White Oak Red Pine White Pine 310 - Herbac 6224 - T 4130 Canopy Species Red Maple	% Cover 20 15 20 45	Size Class Log/Pole Log/Pole Log/Pole Iland	Sawtimbe DBH 12 10 10 12 10 Nonstor Nonstor	er Poor Age 97 97 cked cked	66.7 Sub-Car Rec Wh Oal Bigtoo 2.0 4.0 Sub-Car Wh Whit 33.4 Sub-Car	hopy Species d Maple ite Pine k (spp.) oth Aspen hopy Species ite Pine e Spruce 35 hopy Species	 Density Low Medium Low Low 	Avg. Height 5 - 10 feet 5 - 10 feet 5 - 10 feet 5 - 10 feet No Avg. Height N/A Avg. Height	Sapling Sapling Sapling Sapling Size Sapling Sapling Sapling	Shelterwood cut fall 2016-spring 2017. Also cut all trees in county road R- O-W. Active well site, multiple permit numbers.

Report 7 – Stands



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Stan	d Level 4 C	over Type		Size De	ensity	Acres	Stand Age B	A Range	Managed S	Site	General Comments
11	42210 - Na	tural Red Pi	ine S	Sawtimb	er Well	23.1	73	51-80	N/A		Stand was treated in 2008 as a species removal with some marked pine.
	Canopy Species	% Cover	Size Class	DBH	I Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	
	White Pine	5	Log/Pole	10		Re	ed Maple	Medium	5 - 10 feet	Sapling	
	Red Pine	90	Log/Pole	10	73	W	hite Pine	Medium	5 - 10 feet	Sapling	
	Red Oak	5	Log	12		Oa	ak (spp.)	Low	< 5 feet	Sapling	
12	622 - Lov	vland Shrub)	Nonsto	ocked	0.8			No		Small stand, emrgent wetland in area of higher water table.
13	42260 - Natural Pi	ne, Mixed D	eciduous S	Sawtimb	er Well	15.6	71	141-170	N/A		Mixed stand of red and white pine with oak throughout. Scattered
	Canopy Species	% Cover	Size Class	DBH	I Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	hemlock present. Both pine species are variable in terms of size. Growing well. Some areas look like remnant plantations, most notably in
	Red Maple	5	Pole/Sapling	6		Oa	ak (spp.)	Low	5 - 10 feet	Sapling	central/eastern portion of stand.
	Red Oak	15	Log/Pole	12		Re	ed Maple	Low	5 - 10 feet	Sapling	
	White Pine	30	Log/Pole	10		W	hite Pine	High	10 - 20 feet	Sapling	
	White Oak	5	Pole/Log	8							-
	Red Pine	40	Pole/Log	9	71						
	Bigtooth Aspen	5	Pole	7							
14	310 - Herbac	eous Open	land	Nonsto	ocked	5.8					Well site, permit #30473. USA Kalkaska 1-20. Plugged well (1999) in SE part of stand.
15	500	- Water		Nonsto	ocked	11.1			No		Main basin of lake, with seasonal connection to Little Guernsey Lake.
16	622 - Lov	vland Shrub)	Nonsto	ocked	0.3			No		Small lowland stand in area of higher water table.
17	623 - Emer	gent Wetla	nd	Nonsto	ocked	27.1			No		Areas of lowland shrubs with varying water depth.
19	623 - Emer	gent Wetla	nd	Nonsto	ocked	0.7			No		Small lowland/emergent wetland stand in area of higher water table.
20	4130	- Aspen	F	oletimb	er Well	8.5	26 I	mmature	N/A		A3 stand with oak sapl;ings present and pine throughout stand. Growing
	Canopy Species	% Cover	Size Class	DBH	I Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	well overall, good quality.
	Red Pine	5	Pole/Log	8		W	hite Pine	Medium	5 - 10 feet	Sapling	
	White Pine	5	Pole/Log	8							-
	Bigtooth Aspen	80	Pole/Sapling	5	26						
	Red Oak	10	Sapling/Pole	3							

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Stand	Level 4 C	over Type		Size De	nsity	Acres Stan	d Age B/	A Range	Managed S	Site	General Comments
21	6128 - Lowland Dec	Coniferous, iduous	Mixed Po	oletimber	Medium	u 40.7 7	'5	51-80	N/A		Lowland stand, boundary includes upland edges of larger red and white pine. Stand is a seep, draining towards Guernsey Lake. Central portion
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy	Species	Density	Avg. Height	Size	is mainly cedar with e-type species at edges. Some dense pockets of paper birch throughout.
	Red Maple	5	Pole	8		Tag Ald	er	High	5 - 10 feet	Tall Shrub	
	White Pine	15	Log/Pole	14		Balsam I	Fir	Medium	5 - 10 feet	Sapling	
Nor	rthern White Cedar	35	Pole/Log	9	75						1
	Red Pine	5	Log/Pole	12							
	Paper Birch	20	Sapling/Pole	e 5							
	Balsam Fir	10	Pole/Sapling	j 7							
23	4319 - Mixed	l Upland Fo	rest F	Poletimb	er Well	22.1 8	6 ·	111-140	N/A		
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy	Species	Density	Avg. Height	Size	
	Hemlock	5	Pole/Log	8		Tag Ald	er	High	5 - 10 feet	Tall Shrub	
	Red Pine	15	Log/Pole	12		Balsam I	Fir	Medium	5 - 10 feet	Sapling	
	Quaking Aspen	20	Pole/Log	8						1	
	Paper Birch	5	Pole	8							
	Balsam Fir	10	Pole/Sapling	j 7							
Nor	rthern White Cedar	5	Pole/Log	9	75						
	White Pine	15	Log/Pole	13							
	Red Maple	25	Pole	8	86						
24	4199 - Other Mixe	d Upland D	eciduous	Sawtimb	er Well	42.5 8	32	81-110	N/A		Mixed oak, sugar maple stand with each species more dominant in
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy	Species	Density	Avg. Height	Size	places. Stand was treated 20 years ago with a heavy thinning. Ironwo regen very common along with beach regen in places. Pockets of suga
	Sugar Maple	30	Pole/Log	8		Ironwoo	d	High	10 - 20 feet	Sapling	maple regen present but not very thick. Some browse on
	Basswood	10	Log/Pole	10		White Pi	ne	Low	5 - 10 feet	Sapling	seedlings/saplings although not very heavy overall. Stand line may not
	Red Oak	55	Log/Pole	12	82						¹ be perfect along southwestern edge where stand fazes into adjacent larger oak stand.
	Red Maple	5	Pole/Log	8							
25	310 - Herbac	eous Open	land	Nonsto	ocked	3.0			No		Small opening, old well site (plugged 1975).
26	310 - Herbac	eous Open	land	Nonsto	ocked	1.6			No		Old well site? Stand is a pure grassy opening.



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Stanc	d Level 4 C	over Type	;	Size De	nsity	Acres	Stand Age B	A Range	Managed S	Site	General Comments
27	42260 - Natural Pi	ne, Mixed [Deciduous P	oletimb	er Well	10.5	65	81-110	N/A		Mixed pine stand, variable density and composition in places. Longer
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	lived species are larger dbh, growing well. Aspen and Jack pine are ok in terms of quality, currently smaller dbh than other species present.
	White Pine	20	Log/Pole	10			sam Fir	Low	10 - 20 feet	Sapling	terms of quality, currently smaller upri than other species present.
	Red Pine	30	Log/Pole	10	65	Wł	ite Pine	Low	10 - 20 feet	Sapling	
	Jack Pine	10	Pole	6		E	Beech	Low	< 5 feet	Sapling	
	Red Oak	5	Pole/Log	8							
	Red Maple	5	Sapling/Pole	3							
	Bigtooth Aspen	20	Pole	8							
	Red Oak	10	Log/Pole	10							
28	4119 - Mixed No	orthern Har	dwoods P	oletimb	er Well	11.7	75	51-80	N/A		Hardwood stand with a decent amount of oak and scattered pockets of
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	red maple concentrations. Scattered hemlock. Thinned to average residual BA of 82 sf/ac in winter 2016.
	Red Pine	5	Pole/Log	8			Beech	High	< 5 feet	Sapling	Tesidual DA OF 02 SI/ac III WINter 2010.
	Basswood	5	Log/Pole	10		Irc	nwood	Medium	5 - 10 feet	Sapling	
	Red Maple	25	Pole/Log	8							
	Red Oak	15	Log/Pole	12							
	Hemlock	3	Pole	8							
	White Pine	5	Pole/Log	8							
	Sugar Maple	42	Pole/Log/Sap	8	75						
29	42200 - Nati	ural White I	Pine S	Sawtimb	er Well	8.3	71	51-80	N/A		Mixed stand, dominated by white pine in variable size classes. Aspen
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	throughout, smaller diameter, mediocre quality. White and red oak present in low numbers. Eastern finger of stand is more uniform size an
	Quaking Aspen	10	Pole	8		Wł	ite Pine	Medium	5 - 10 feet	Sapling	stocking.
	White Pine	67	Log/Pole/XLog	g 10	71	Та	g Alder	Low	< 5 feet	Tall Shrub	
	Red Maple	5	Pole	8							
	Red Oak	5	Log/Pole	12							
	White Oak	3	Log/Pole	10							
	Paper Birch	5	Pole	8							
	Red Pine	5	Pole	8							
30	4124 - Red	with White	Oak S	Sawtimb	er Well	13.4	90	1-50	N/A		
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	
	White Oak	45	Log/Pole	10		Wh	ite Pine	Low	5 - 10 feet	Sapling	
	Red Oak	55	Log/Pole	10	90	Oa	k (spp.)	Low	5 - 10 feet	Sapling	
						Re	d Maple	High	10 - 20 feet	Sapling	

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Stand	d Level 4 C	over Type		Size De	nsity	Acres	Stand Age B	A Range	Managed S	lite	General Comments
31	4111 - S.Maple, H	ard Mast As	ssociation	Sawtimb	er Well	37.1	86	111-140	N/A		Hardwood stand treated in 2006. Growing/responding pretty well. Beech
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	regen is thick, remaining species are not regenerating or have a minimal presence in the understory. Stand includes a pocket of smaller, sap/pole
	Hemlock	5	Pole	8		Ire	onwood	High	5 - 10 feet	Sapling	sized trees in eastern finger near private boundary.
	Black Cherry	5	Pole	8		I	Beech	High	5 - 10 feet	Sapling	
	Red Pine	5	Log/Pole	10				·		·	-
	Sugar Maple	50	Log/Pole	10	86						
	Beech	5	Pole/Log	8							
	Basswood	10	Log/Pole	10							
	Red Oak	10	Log/Pole	10							
	Red Maple	10	Log/Pole	10							
32	4119 - Mixed No	orthern Hard	dwoods	Sawtimb	er Well	7.2	85	81-110	N/A		Small hardwood stand, pretty descent quality. Stand encompasses an
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	area use for camping along river. Portion of stand lies within Natural River riparian zone.
	Sugar Maple	50	Log/Pole	12	85	Wł	nite Pine	Low	5 - 10 feet	Sapling	
	Red Oak	15	Log/XLog	15		Sug	jar Maple	Low	10 - 20 feet	Sapling	
	Paper Birch	5	Pole	8							-
	Hemlock	3	Pole	9							
	White Pine	5	Log/XLog	15							
	Red Maple	22	Log/Pole	12							
33	622 - Lov	vland Shrub)	Nonsto	cked	20.0			No		Historic basin of mud lake, now should be considered more of an emergent wetland because of recent drying trends.
34	3105 - Mixed U	pland Herba	aceous	Nonsto	cked	13.7	lı	nmature	No		Opening with a couple jack pine pockets throughout. NCT runs through center of stand.
35	42210 - Na	tural Red Pi	ine	Sawtimb	er Well	6.0	81	51-80	N/A		Small stand of larger red pine, growing well. Beattie Sign Pine, 61-036-14-
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	01. Cut 11/2017-6/2018. Average residual BA 78 sf/acre. North Country Trail runs through the stand
	Red Oak	5	Log	14		W	hite Oak	Low	10 - 20 feet	Sapling	
	White Pine	10	Log/Pole	10		Bigto	oth Aspen	Low	< 5 feet	Sapling	
	Red Pine	85	Log/Pole	12	81	Wł	nite Pine	Low	Variable	Sapling	
36	42250 -	Pine, Oak		Sawtimb	er Poor	100.9	72	1-50	N/A		Beattie Sign Pine, 61-036-14-01. Cut 11/2017-6/2018.
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	
	White Pine	15	Log/Pole	10		Quak	king Aspen	Low	10 - 20 feet	Sapling	
	Red Pine	55	Log/Pole	10	72	W	hite Oak	Low	< 5 feet	Sapling	
	White Oak	15	Log/Pole	10		Re	d Maple	Medium	10 - 20 feet	Sapling	
	Red Oak	15	Log/Pole	12		R	ed Oak	Low	< 5 feet	Sapling	

Report 7 – Stands



Stand	d Level 4 C	over Type	Si	ze De	ensity	Acres	Stand Age B	A Range	Managed S	lite	General Comments
37	42260 - Natural Pi	ne, Mixed [Deciduous Sa	wtimb	er Well	9.7	88	81-110	N/A		Mixed red/white pine stand with oak throughout, along with scattered
	Canopy Species	% Cover	Size Class	DBH	I Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	aspen and a few red maple. Stand provides a nice visual corridor along Boardman River. Horse Trail traverses stand.
	Red Maple	5	Pole	8		Re	d Maple	Low	10 - 20 feet	Sapling	
	Red Oak	20	Log/Pole	13		Wh	nite Pine	Low	5 - 10 feet	Sapling	
	White Oak	5	Pole/Log	9		Oa	ik (spp.)	Low	5 - 10 feet	Sapling	
	White Pine	25	Log/Pole/XLog	14							-
	Red Pine	35	Log/Pole	12	88						
	Bigtooth Aspen	10	Pole/Log	9							
38	500 -	Water	٦	lonsto	ocked	6.2			No		Main portion of Mud Lake. Shallow water body, pockets of vegetation throughout.
39	3102	- Grass	١	lonsto	ocked	45.9	U	nspecified	No		Grass opening. White pine, cherry, oak and scattered hdwds throughout
						Sub-Ca	nopy Species	Density	Avg. Height	Size	Occasional jack pine as well. WLD 5/9/22-very good grass component. I believe there is an old farm
						Blac	ck Cherry	Low			stead site in this stand.
						C	onifers	Medium		Sapling	
40	42220 - Nat	ural Jack P	'ine Po	letimb	er Well	13.3	41	51-80	N/A		
	Canopy Species	% Cover	Size Class	DBH	I Age						
	White Oak	5	Pole	8							
	Red Pine	5	Pole/Log/Sap	8							
	Black Cherry	5	Pole/Sapling	6							
	Jack Pine	65	Pole	6	41						
	Red Oak	5	Pole/Log	8							
	Red Oak White Pine		Pole/Log Pole/Sap/Log	8 8							
41	-	5 15	Pole/Sap/Log			11.4			No		Relatively open stand with scattered trees throughout. Portions have
41	White Pine	5 15	Pole/Sap/Log	8			nopy Species	Density	No Avg. Height	Size	pockets of lightly stocked hardwoods, most notably cherry. Scattered
41	White Pine	5 15	Pole/Sap/Log	8		Sub-Ca	nopy Species Jar Maple	Density Low		Size Sapling	pockets of lightly stocked hardwoods, most notably cherry. Scattered
41	White Pine	5 15	Pole/Sap/Log	8		Sub-Car Sug		-			pockets of lightly stocked hardwoods, most notably cherry. Scattered jack pine present as well. Seasonally wet area in Northwest corner of the
41	White Pine	5 15	Pole/Sap/Log	8		Sub-Car Sug Blac	ar Maple	Low		Sapling	pockets of lightly stocked hardwoods, most notably cherry. Scattered jack pine present as well. Seasonally wet area in Northwest corner of the
	White Pine 3105 - Mixed Up 4191 - Mixed Upla	5 15	Pole/Sap/Log	8 Nonsto		Sub-Car Sug Blac	ar Maple ck Cherry	Low Medium		Sapling Sapling	pockets of lightly stocked hardwoods, most notably cherry. Scattered jack pine present as well. Seasonally wet area in Northwest corner of th
	White Pine 3105 - Mixed Up 4191 - Mixed Upla	and Decidu	Pole/Sap/Log	8 Nonsto	er Well	Sub-Car Sug Blac Ja 20.5	ar Maple ck Cherry ck Pine 97	Low Medium Low	Avg. Height	Sapling Sapling	pockets of lightly stocked hardwoods, most notably cherry. Scattered jack pine present as well. Seasonally wet area in Northwest corner of the stand.
	White Pine 3105 - Mixed Up 4191 - Mixed Upla	and Decidu	Pole/Sap/Log aceous N ous with Sa	8 Nonsto	ocked	Sub-Car Sug Blac Ja 20.5 Sub-Car	ar Maple ck Cherry ck Pine	Low Medium Low 81-110	Avg. Height	Sapling Sapling Sapling	pockets of lightly stocked hardwoods, most notably cherry. Scattered jack pine present as well. Seasonally wet area in Northwest corner of the stand.
	White Pine 3105 - Mixed Up 4191 - Mixed Upla Cc Canopy Species	5 15 Dand Herba and Decidu nifer % Cover	Pole/Sap/Log aceous M ous with Sa Size Class	8 Nonsto wtimb	er Well	Sub-Car Sug Blac Ja 20.5 Sub-Car Re	ar Maple ck Cherry ck Pine 97 nopy Species	Low Medium Low 81-110 Density	Avg. Height N/A	Sapling Sapling Sapling Size	pockets of lightly stocked hardwoods, most notably cherry. Scattered jack pine present as well. Seasonally wet area in Northwest corner of th stand.
	White Pine 3105 - Mixed Up 4191 - Mixed Upla Co Canopy Species White Oak	and Decidu nifer % Cover 10	Pole/Sap/Log aceous M ous with Sa Size Class Log/Pole	8 Nonsto wtimb DBH	bocked	Sub-Car Sug Blac Ja 20.5 Sub-Car Re Bigto	ar Maple ck Cherry ck Pine 97 nopy Species d Maple	Low Medium Low 81-110 Density Low	Avg. Height N/A Avg. Height 5 - 10 feet	Sapling Sapling Sapling Sapling	pockets of lightly stocked hardwoods, most notably cherry. Scattered jack pine present as well. Seasonally wet area in Northwest corner of th stand.
41	White Pine 3105 - Mixed Up 4191 - Mixed Upla Co Canopy Species White Oak Red Oak	and Decidu nifer % Cover 10 35	Pole/Sap/Log aceous M ous with Sa Size Class Log/Pole Log/Pole	8 Nonstr wtimb DBH 10 12	bocked	Sub-Car Sug Blac Ja 20.5 Sub-Car Re Bigto Wh	ar Maple ck Cherry ck Pine 97 nopy Species d Maple oth Aspen	Low Medium Low 81-110 Density Low Low	Avg. Height N/A Avg. Height 5 - 10 feet 5 - 10 feet	Sapling Sapling Sapling Sapling Sapling Sapling	pockets of lightly stocked hardwoods, most notably cherry. Scattered jack pine present as well. Seasonally wet area in Northwest corner of the stand.
41 42	White Pine 3105 - Mixed Up 4191 - Mixed Upla Co Canopy Species White Oak Red Oak Bigtooth Aspen	and Decidu nifer % Cover 10 35 15	Pole/Sap/Log aceous N ous with Sa Size Class Log/Pole Log/Pole Pole	8 Nonsta wtimb DBH 10 12 8	bocked	Sub-Car Sug Blac Ja 20.5 Sub-Car Re Bigto Wh	ar Maple ck Cherry ck Pine 97 nopy Species d Maple oth Aspen nite Pine	Low Medium Low 81-110 Density Low Low High	Avg. Height N/A Avg. Height 5 - 10 feet 5 - 10 feet 5 - 10 feet	Sapling Sapling Sapling Sapling Sapling Sapling Sapling	pockets of lightly stocked hardwoods, most notably cherry. Scattered jack pine present as well. Seasonally wet area in Northwest corner of the stand.

Report 7 – Stands



Stand	Level 4 C	over Type		Size De	nsity	Acres	Stand Age B	A Range	Managed S	ite	General Comments
44	6229 - Mixeo	l lowland sł	hrub	Nonsto	cked	0.9			No		Small, narrow grassy opening. Possible high water table.
45	622 - Lov	vland Shrut)	Nonsto	cked	0.9			No		Small lowland pocket, lowland shrub/emergent wetland type.
46	4119 - Mixed No	orthern Hard	dwoods	Poletimb	er Well	16.7	80	81-110	N/A		Oak and sugar maple stand with other hardwood species mixed □ throughout. Most of stand treated in 2005. A portion of stand on the west
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Can	opy Species	Density	Avg. Height	Size	side of Boardman River Rd. was not treated. Variable in terms of
	Red Maple	10	Pole	6		Rec	l Maple	Medium	< 5 feet	Sapling	stocking and overall quality.
	Basswood	10	Pole/Log	9		В	eech	Medium	< 5 feet	Sapling	
	Red Oak	30	Log/Pole	12						1	-
	Bigtooth Aspen	10	Log/Pole	12							
	Sugar Maple	40	Pole/Sap/Lo	g 7	80						
47	4191 - Mixed Upla Co	and Decidu onifer	ous with	Sawtimb	er Well	4.4	97	81-110	N/A		Part of stands 49 and 6 that was not treated should be kept as retention. Oak and pine stand, fair quality.
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Can	opy Species	Density	Avg. Height	Size	
	Red Pine	20	Log/Pole	12		Rec	Maple	Low	5 - 10 feet	Sapling	
	Jack Pine	2	Pole	8		Whi	ite Pine	High	5 - 10 feet	Sapling	
	Red Oak	48	Log/Pole	12	97	Oal	(spp.)	Low	5 - 10 feet	Sapling	
	White Oak	10	Log/Pole	10		Bigtoc	oth Aspen	Low	5 - 10 feet	Sapling	
	White Pine	10	Log/Pole	10							
	Bigtooth Aspen	5	Pole	8							
	Red Maple	5	Pole/Sapling	g 7							
48	4130	- Aspen		Poletimb	er Well	18.6	36	51-80	N/A		
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Can	opy Species	Density	Avg. Height	Size	
	White Oak	3	Pole	5		Whi	ite Pine	Medium	5 - 10 feet	Sapling	
	Red Maple	5	Pole	5		Oal	k (spp.)	Low	5 - 10 feet	Sapling	
	Bigtooth Aspen	75	Pole	6	36						
	Red Oak	2	Pole	5							
	White Pine	15	Pole	5							
49	42250 -	Pine, Oak		Sawtimbe	er Poor	19.3	97	1-50	N/A		Stand was harvested as a seed tree shelter wood cut with a scattering of
	Canopy Species	% Cover	Size Class		Age	Sub-Can	opy Species	Density	Avg. Height	Size	red pine, white pine and oaked left. Regeneration is heavy to aspen and red maple. Beattie Sign Pine, 61-036-14-01. Cut 11/2017-6/2018.
	Red Oak	20	Log/Pole	12	97	Rec	l Maple	Medium	5 - 10 feet	Sapling	
	Red Pine	40	Log/Pole	12	97	Whi	ite Pine	High	5 - 10 feet	Sapling	
	White Pine	25	Log/Pole	10		Jac	k Pine	Trace	< 5 feet	Sapling	
	White Oak	10	Log/Pole	10		Oal	k (spp.)	Low	5 - 10 feet	Sapling	

Report 7 – Stands



Stand	Level 4 C	over Type		Size De	nsity	Acres	Stand Age	BA Range	Managed S	ite	General Comments
51	500 -	- Water		Nonsto	ocked	86.7			No		Island Lake. Currently the area is full of water
52	4139 - Aspen,	Mixed Decid	duous	Sapling	Well	12.7	14	Immature	N/A		Stand is a mixture resulting from final harvest area and is regenerating
	Canopy Species	% Cover	Size Class	DBH	Age						well.
	Red Maple	30	Sapling	2							
	White Oak	15	Sapling	2							
	Bigtooth Aspen	45	Sapling	3	14						
	White Pine	5	Sapling	1							
	Red Pine	5	Sapling	2							
53	42290 - Natu	ural Mixed F	Pine	Sawtimb	er Well	28.6	88	141-170	N/A		
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Specie	s Density	Avg. Height	Size	
	White Pine	30	Log/Pole	10		WI	nite Pine	High	10 - 20 feet	Sapling	
	Bigtooth Aspen	10	Pole/Log	8							
	Red Pine	45	Log/Pole	12	88						
	White Oak	5	Log	10							
	Red Oak	10	Log/XLog	14							
55	42110 - Pla	nted Red Pi	ne	Poletimb	er Well	35.5	68	141-170	N/A		
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Specie	s Density	Avg. Height	Size	
	Red Pine	100	Pole/Log	9	68	WI	nite Pine	Low	5 - 10 feet	Sapling	
						Oa	ık (spp.)	Low	5 - 10 feet	Sapling	
						Ja	ck Pine	Medium	5 - 10 feet	Sapling	
						R	ed Pine	Low	5 - 10 feet	Sapling	
56	42210 - Nat	tural Red Pi	ne	Sawtimb	er Well	58.2	72	81-110	N/A		Cut ~2017.
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Specie	s Density	Avg. Height	Size	
	Red Oak	10	Log/Pole	12		Re	d Maple	Medium	Variable	Sapling	
	White Pine	15	Pole/Log	8		Oa	ik (spp.)	Low	5 - 10 feet	Sapling	
	White Oak	5	Log/Pole	10		Qual	ing Aspen	Low	5 - 10 feet	Sapling	
	Red Pine	70	Log/Pole	12	72						



IN DNR

Stand	d Level 4 C	over Type		Size De	ensity	Acres	Stand Age	3A Range	Managed S	ite	General Comments
57	42200 - Nati	ural White F	Pine S	Sawtimb	er Well	8.6	88	81-110	N/A		Multi polygon stand, made up of islands within historic Island Lake basin
	Canopy Species	% Cover	Size Class	DBH	I Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	Stands contain of mixture of conifers including white pine, red pine and hemlock, along with some deciduous species including red maple and
	Paper Birch	5	Pole	6		Ba	Isam Fir	Low	5 - 10 feet	Sapling	paper birch. Nice isolated stands, some jack pine regen on edges of
Nc	orthern White Cedar	5	Pole/Log	9		WI	hite Pine	Medium	5 - 10 feet	Sapling	stand.
	White Pine	66	Log	16	88	Re	ed Maple	Low	5 - 10 feet	Sapling	
	Red Pine	4	Log	10							
	Jack Pine	5	Pole/Sapling	5							
	Hemlock	10	Pole/Log	10							
	Red Maple	5	Pole	8							
60	42210 - Na	tural Red Pi	ine S	Sawtimb	er Well	25.4	70	141-170	N/A		Stand was treated in 2008 as a species removal with some marked pine
	Canopy Species	% Cover	Size Class	DBH	I Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	Stand is responding well in terms of regeneration. White pine and oak i somewhat dense in spots, scattered red pine regen present also.
	Red Pine	98	Log/Pole	12	70	Re	ed Maple	Medium	5 - 10 feet	Sapling	
	White Pine	2	Log/Pole	10		W	hite Oak	Medium	5 - 10 feet	Sapling	
						Bigto	ooth Aspen	Low	5 - 10 feet	Sapling	
61	42140 - Plan	ited Mixed F	Pine	Saplin	g Well	14.4	22	Immature	N/A		Young red pine plantation, growing ok however heavy volunteer regeneration of jack pine, white pine, cherry and aspen in places is
	Canopy Species	% Cover	Size Class		I Age						leading to some inconsistent red pine stocking throughout, along with
	Black Cherry	5	Sapling	2							more of a mixed stand in places.
	Quaking Aspen	2	Sapling	2							
	White Pine	3	Sapling	2							
	Red Pine	50	Sapling	3	22						
	Jack Pine	40	Sapling	4							
62	4130	- Aspen	F	Poletim	er Well	4.3	32	51-80	N/A		
	Canopy Species	% Cover	Size Class	DBH	l Age						
	Bigtooth Aspen	85	Pole	6	32						
	Red Oak	10	Pole/Sapling	6							
	Red Maple	5	Pole/Sapling	5							
66	4119 - Mixed No	orthern Hard	dwoods S	Sawtimb	er Well	13.7	75	111-140	N/A		Hardwood stand, descent quality.
	Canopy Species	% Cover	Size Class	DBH	I Age	Sub-Ca	nopy Species	Density	Avg. Height	Size]
	Red Maple	10	Pole/Log	8		Sug	gar Maple	Low	10 - 20 feet	Sapling	
	Sugar Maple	65	Log/Pole	10	75	Ire	onwood	Low	10 - 20 feet	Sapling	
	Basswood	5	Pole/Log	9							
	Red Oak	5	Log/Pole	10							
	White Pine	10	Log/Pole	10							
	Paper Birch	5	Pole/Log	8							

Report 7 – Stands

MICHIGAN

tand	Level 4 Cover Type			Size De	ensity	Acres	Stand Age B	A Range	Managed S	ite	General Comments
67					awtimber Medium		80	1-50			Stand was thinned 2006-2008 all jack pine, aspen and red maple were removed along with marked oak and pine. Mixed stand of oak/pine.
	Canopy Species	% Cove	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	Some areas heavier to pine, overall seems like stand is oak dominated
	Red Oak	40	Log/Pole	10		Oa	ak (spp.)	Medium	5 - 10 feet	Sapling	but red pine and occasional white pine are definitely a major componen
	Red Pine	18	Log/Pole	10		Qual	king Aspen	Low	5 - 10 feet	Sapling	White pine regeneration is thick, some pockets seem to be in the process of converting to conifer dominated stand. Northwest corner of
	White Oak	42	Log/Pole	10	80	White Pine		Medium	5 - 10 feet	Sapling	stand has a higher concentration of red pine.
					Re	ed Maple	Medium	5 - 10 feet	Sapling		
68	4311 - Pin	e, Aspen N	lix P	oletimb	er Well	42.1	70	81-110	N/A		Mixed stand with white pine dominant overall. Aspen and red maple prevalent throughout, smaller size classes. Some pockets, most notably
	Canopy Species	% Cove	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	where stand shares boundary with stand to the east, red pine becomes
	Bigtooth Aspen	20	Pole	8		W	hite Pine	Medium	5 - 10 feet	Sapling	more of a component.
	Red Oak	5	Log/Pole	10		06	ak (spp.)	Low	< 5 feet	Sapling	
	Red Maple	20	Pole/Sapling	7							
	White Pine	35	Log/Pole	12	70						
	Red Pine	20	Log/Pole	10							
69	4191 - Mixed Upla Co	and Decidu onifer	ious with S	awtimb	er Well	6.9	84	51-80	N/A		Fair amount of damage from August 2015 windstorm. Wet swale fills up southern part of stand.
	Canopy Species	% Cove	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	
	Bigtooth Aspen	35	Log/Pole	10	70		Beech	Low	5 - 10 feet	Sapling	
	Red Pine	5	Pole/Log	8		W	hite Pine	Low	< 5 feet	Sapling	
	Red Oak	40	Log/Pole	12	84						1
	White Pine	20	Pole/Log	8							
70	4191 - Mixed Upla Co	and Decidu onifer	ious with Po	oletimb	er Well	8.9	87	81-110	N/A		Oak, pine stand on south facing slope along south river rd. Was left as retention, a buffer when large oak stand to the north was harvested.
	Canopy Species	% Cove	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	Stand is mediocre quality, some variability in terms of stocking, species composition and overall quality.
	Red Pine	20	Log/Pole	10		Oa	ak (spp.)	Low	5 - 10 feet	Sapling	
	White Pine	15	Pole/Log	9		W	hite Pine	Medium	5 - 10 feet	Sapling	
	Jack Pine	5	Pole/Sapling	6							1
	Quaking Aspen	5	Pole	8							
	White Oak	15	Pole/Log	9							
71	4111 - S.Maple, H	ard Mast A	ssociation S	awtimb	er Well	28.5	80	51-80	N/A		Hardwood stand with sugar maple dominant in multiple size classes. Re
	Canopy Species	% Cove	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	oak a major component throughout-large diameter, fair quality. Thinned
	Basswood	10	Log/Pole	10			Beech	Medium	< 5 feet	Sapling	to average residual BA of 68 sf/ac in winter 2016. More aspen in wester finger along lake. Fair amount of damaged from August 2015 windstorm
	Red Oak	25	Log	14			hite Pine	Low	< 5 feet	Sapling	
	Paper Birch	3	Pole	8			onwood	High	5 - 10 feet	Sapling	
	Sugar Maple	52	Pole/Log	8	80					- spinig	
	- agai mapio		Pole/Sapling								
	Red Maple	10	Pole/Saplind	7							
	Red Maple	10	Pole/Sapling	1							

Report 7 – Stands

Stand	d Level 4 C	over Type		Size Density	Acres	Stand Age B	A Range	Managed Site		General Comments
73	4133 - Aspe	Pine	Poletimber Well	48.6	35	51-80	N/A		Younger aspen (A3/A4) stand, growing fairly well. Some pockets of	
	Canopy Species	% Cover	Size Class	DBH Age	ł	nopy Species	Density	Avg. Height	Size	merchantable aspen. Included buffer along island lake where this stand borders adjacent lake basin. Scattered red and white pine throughout,
	Bigtooth Aspen	65	Pole	6 35	WI	nite Pine	Low	5 - 10 feet	Sapling	Left as residual during past harvest. Some patchy spots where pine is
	White Pine	5	Pole	6						dominant, mostly along edges of stand where it blends into adjacent
	Jack Pine	5	Pole	6						areas. New stand added.
	Red Pine	20	Log/Pole	10						
	Red Oak	5	Pole/Log	8						
74	330 - Low-I	Density Tre	ees	Nonstocked	2.9			No		Small opening, conifer species encroaching throughout, stand close to having 25% coverage and therefore being classified as a forested stand
75	42200 - Nati			Poletimber Well	2.0	75	51-80	N/A		Natural white pine stand, mixture of pole and some logs, occasional pockets of saplings.
	Canopy Species		Size Class	DBH Age						
	White Pine	95	Pole/Log/Sa							
	Bigtooth Aspen	5	Pole/Sapling	g 6						
76	42210 - Nat	tural Red P	Pine	Sawtimber Well	256.3	74	141-170	N/A		Mixed pine stand, removal carried out on stand 15-20 years ago.
	Canopy Species	% Cover	Size Class	DBH Age		nopy Species	Density	Avg. Height	Size	
	Red Oak	8	Pole/Log	8		nite Pine	Medium	10 - 20 feet	Sapling	
	White Oak	7	Pole/Log	8	Re	ed Maple	Low	5 - 10 feet	Sapling	
	Bigtooth Aspen	10	Pole	6		ak (spp.)	Medium	10 - 20 feet	Sapling	
	White Pine	5	Log/Pole	12	Bigto	oth Aspen	Medium	10 - 20 feet	Sapling	
	Red Pine	70	Log/Pole	11 74						
77	42210 - Nat	tural Red P	Pine	Sawtimber Well	11.4	79	81-110	N/A		Nice red pine stand with scattered white pine. Stand is adjacent to Boardman River corridor and has a high water table in places.
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	boardman river control and has a high water table in places.
	Red Oak	15	Log/XLog	14	Oa	ak (spp.)	Low	Variable	Sapling	
	Red Maple	5	Pole	8	Ba	lsam Fir	Low	5 - 10 feet	Sapling	
	Red Pine	70	Log	12 79	Re	ed Maple	Low	5 - 10 feet	Sapling	
	White Pine	10	Log	12						
78	3102	- Grass		Nonstocked	27.0			No		Long/narrow opening, grasses are full coverage with scattered u-type saplings.
					Sub-Ca	nopy Species	Density	Avg. Height	Size	Sapingo.
						onifers	Low		Sapling	
					Bla	ck Cherry	Low		Sapling	
79	310 - Herbac	eous Open	nland	Nonstocked	2.8					Well site, storage basin.
80	330 - Low-I	Density Tre	es	Nonstocked	4.9			No		Small narrow opening in shallow valley with jack pine barren type cove throughout. Nice breakup to larger pine stand surrounding this area.

	Travers	se City Mg	gt. Unit			R	eport 7 – Sta	ands		Compartment: 160 Year of Entry: 2024		
tand	Level 4 Cover Type			Size Density		Acres Stand Age	e BA Range	Managed S	Site	General Comments Old well sites (plugged 1974 & 1989), north/south trail running directly through stand.		
81	310 - Herbaceous Openland Nonsto				ocked	1.3		No				
82	42210 - Nat	ine Sa	Sawtimber Po		144.5 82	1-50	N/A		Stand was thinned in Fall of 2017 'Differential Advantage' 61-004-14-01.			
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Canopy Spec	ies Density	Avg. Height	Size	Removed the jack pine and aspen then thinned through the red and will pine areas. Residual BA is a bit variable. The NCT runs through the		
	Red Oak	10	Log/Pole	10		White Pine	Medium	5 - 10 feet	Sapling	northern part of this stand. We found some monitoring wells in the SE		
	White Pine	15	Log/Pole/XLog	12		Red Maple	Medium	5 - 10 feet	Sapling	portion of the stand.		
	Red Pine	70	Log/Pole	12	82	Oak (spp.)	Low	5 - 10 feet	Sapling			
	Red Maple	5	Pole/Sapling	6		Witch Hazel	Low	5 - 10 feet	Tall Shrub			
						Bigtooth Aspen	Low	5 - 10 feet	Sapling			
83	6128 - Lowland Dec	Coniferous iduous	, Mixed Saw	timbeı	⁻ Mediur	n 66.3 65	81-110	N/A		Mixed stand of cedar/spruce/fir and other conifers including white and pine. Aspen and red maple also make up major components of the		
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Spec	ies Density	Avg. Height	Size	stand.Stand includes some small grassy openings at rivers edge. Typestand as lowland but portions of stand include river bank which		
	Quaking Aspen	20	Pole	8	65	Balsam Fir	Medium	10 - 20 feet	Sapling	technically is upland. These areas are where higher concentrations o		
	Balsam Fir	10	Pole/Sapling	6		Tag Alder	Medium	5 - 10 feet	Tall Shruk	larger red and white pine are found.		
	Black Spruce	5	Pole	8		Black Cherry	Low	5 - 10 feet	Sapling			
No	rthern White Cedar	20	Log	10	86	Red Maple	Medium	5 - 10 feet	Sapling			
	Red Maple	5	Pole	8					1	-		
	Red Pine	15	Log/Pole	14								
	Hemlock	5	Log	10								
84	310 - Herbac	eous Open	iland I	Vonsto	ocked	1.2		No		Old well site, plugged 1973.		
85	42210 - Nat	ural Red P	ine Sa	wtimb	er Poor	31.4 74	1-50	N/A		Red pine stand, treated last yoe left all red and white pine. Lots of whi		
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Spec	ies Density	Avg. Height	Size	pine regen, along with some jack pine coming back.		
	White Pine	5	Log/Pole	8		Red Maple	Low	5 - 10 feet	Sapling			
	Red Pine	95	Log/Pole	10	74	White Pine	Medium	5 - 10 feet	Sapling			
						Jack Pine	Low	< 5 feet	Sapling			
86	4111 - S.Maple, Ha	ard Mast A	ssociation Po	letimb	er Well	10.0 85	111-140	N/A		low quality pole timber		
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Spec	ies Density	Avg. Height	Size			
	Red Oak	15	Log/Pole/XLog	14		Beech	Low	5 - 10 feet	Sapling			
	White Pine	5	Pole/Log	8		White Pine	Low	5 - 10 feet	Sapling			
	Red Maple	15	Pole/Log	8		Ironwood	Medium	5 - 10 feet	Seeding			
	Bigtooth Aspen	5	Pole/Log	8				1	1			
	Sugar Maple	55	Pole/Log	8	85							
	Basswood	5	Log/Pole	10								
87	310 - Herbac	eous Open	lland I	Vonsto	ocked	1.8		No		Small opening, old well site (plugged 1986). Conifer species voluntee along eastern edge.		

	Travers	se City Mg	ıt. Unit				Rep	oort 7 – Sta	ands		Compartment: 160 Year of Entry: 2024
Stand	Level 4 Cover Type Size D					Acres	Stand Age	BA Range Managed Site		ite	General Comments
89	3303 - Mixed L	3303 - Mixed Low Density Trees N				17.5		Immature	No		Small grass stand with white pine, jack pine and red maple
90	42290 - Natu	Iral Mixed F	Pine	Sawtimb	er Poor	95.0	76	1-50	N/A		Mixed pine/oak stand with aspen scattered throughout. Stand is in good
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	s Density	Avg. Height	Size	shape, some variability in terms of species composition but overall pretty consistent. Visual Vortex Mix, 61-044-14-01. Cut 2018. SW/seed tree.
	Red Pine	45	Log/Pole	10	76	W	nite Pine	Medium	10 - 20 feet	Sapling	Hoping to release WP understory.
	White Pine	40	Log/Pole	12	70	R	ed Pine	Medium	10 - 20 feet	Sapling	
	Red Oak	10	Pole/Log	9		Quak	king Aspen	Low	< 5 feet	Sapling	
	White Oak	5	Pole/Log	8							1
91	310 - Herbac	eous Open	land	Nonsto	ocked	1.7					Well site/facility, retention strip borders western edge.
92	4126 - White, E	Black, N. Pi	in Oak S	awtimber	Mediun	n 13.9	80	1-50	N/A		White oak stand, treated last yoe by shelterwood/thinning method. Rege
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	B Density	Avg. Height	Size	is responding OK, lots of browse on red maple and oak, white pine rege doing fairly well. Stands were thinned in 08/09
	White Pine	5	Log/Pole	8		Ja	ick Pine	Low	5 - 10 feet	Sapling	
	Red Oak	5	Log/Pole	10		Wł	nite Pine	Medium	5 - 10 feet	Sapling	
	Red Pine	15	Log/Pole	10		Re	d Maple	Medium	5 - 10 feet	Sapling	
	White Oak	75	Log/Pole	12	80	Oa	ak (spp.)	Low	< 5 feet	Sapling	
93	4122 - 0	Oak, Pine	S	awtimber	Mediun	n 45.4	85	51-80	N/A		White oak, red oak and red/white pine stand, treated last yoe. Regen/understory is thick in places, diverse in terms of species.
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	s Density	Avg. Height	Size	Stand/overstory is variable in spots, pockets of more pure red pine in
	White Pine	5	Log/Pole	12		Oa	ak (spp.)	Medium	5 - 10 feet	Sapling	places and also areas of pure oak. Stands were thinned in 08/09
	Red Pine	30	Log/Pole	10		Re	d Maple	Medium	5 - 10 feet	Sapling	
	Red Oak	25	Log/Pole	12		Wł	nite Pine	Medium	5 - 10 feet	Sapling	
	White Oak	40	Log/Pole	10	85						
94	310 - Herbac	eous Open	land	Nonsto	ocked	1.2			No		small opening, looks to have been maintained by private-mowing, brushing?
95	42290 - Natu			Poletimb	er Well	10.7	25	1-50	N/A		Mixed pine stand. When stand was harvested overstory red and white pine were left, about 10 ba or less in most places. Jack pine and white
	Canopy Species		Size Class		Age						pine regeneration dominates the canopy. Stand is two aged, found jack
	Red Oak	5									pine regeneration to be dominant.
	Bigtooth Aspen	10	Sapling/Pol								
	White Pine	30	Pole/Sap/Lo	-							
	Red Pine	10	Log	12							
	Jack Pine	45	Pole	5	25						
96	310 - Herbac	eous Open	land	Nonsto	ocked	1.0					Well site

Report 7 – Stands



Stand	Level 4 Co	over Type	:	Size De	ensity	Acres	Stand Age B	A Range	Managed S	Site	General Comments
97	42110 - Plar		Sapling Well		10.4	25	1-50	N/A		Young red pine (R3) stand with jack pine and white pine component.	
	Canopy Species		Size Class		- Age		nopy Species	_	Avg. Height	Size	-
	Red Pine	60	Sapling/Pole		25	Wł	nite Oak	Low	5 - 10 feet	Sapling	
	Jack Pine	20	Sapling	3							
	White Pine	20	Sapling	3							
98	4310 - Pir	ne, Oak Mix	x	Saplin	g Well	109.4	14	Immature	N/A		Jack pine plantation with dense oak and red maple regen throughout. Stand includes two retention/visual vortices.
	Canopy Species	% Cover	Size Class	DBł	H Age						Stand Includes two retention/visual voltices.
	Red Maple	15	Sapling	1							
	Red Pine	5	Sapling/Pole	2							
	Bigtooth Aspen	5	Sapling	2							
	White Oak	25	Sapling	1							
	Jack Pine	50	Sapling	2	14						
99	330 - Low-I	Density Tre	es	Nonst	ocked	39.8	0 1	Immature	4211 - Planted	Red Pine	2022 - Stand was Roller Chopped 6/26/2022 Stand final harvested 2020. Stand has scattered small jack pine, cherry and some small red pine in it. Replant to fully socked stand of red pine. On POW to chop and trench in 2022
											Seed tree cut in November 2014. Residual BA \sim 26 sf/ac in north half and \sim 13 sf/ac in south half. Mostly pine with a little oak.
101		ne, Oak Mi			ber Well		65	51-80	N/A		Mixed oak pine stand, treated last yoe, growing well. Stand has a oak wilt pesticide treatment pocket within it
101	Canopy Species	% Cover	Size Class	DBł	ber Well I Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	Mixed oak pine stand, treated last yoe, growing well. Stand has a oak wilt pesticide treatment pocket within it.
101	Canopy Species White Pine	% Cover 5	Size Class Pole	DBH 8		Sub-Car Oa	nopy Species k (spp.)	Density Low	Avg. Height 5 - 10 feet	Sapling	
101	Canopy Species White Pine White Oak	% Cover 5 15	Size Class Pole Pole/Log	DB 8 9	H Age	Sub-Car Oa Wh	hopy Species k (spp.) lite Pine	DensityLowLow	Avg. Height 5 - 10 feet 5 - 10 feet	Sapling Sapling	
101	Canopy Species White Pine White Oak Red Pine	% Cover 5 15 45	Size Class Pole Pole/Log Log/Pole	DB 8 9 10		Sub-Car Oa Wh	nopy Species k (spp.)	Density Low	Avg. Height 5 - 10 feet	Sapling	
101	Canopy Species White Pine White Oak	% Cover 5 15	Size Class Pole Pole/Log	DB 8 9	H Age	Sub-Car Oa Wh	hopy Species k (spp.) lite Pine	DensityLowLow	Avg. Height 5 - 10 feet 5 - 10 feet	Sapling Sapling	
101	Canopy Species White Pine White Oak Red Pine	% Cover 5 15 45 35	Size Class Pole Pole/Log Log/Pole Log/Pole	DB 8 9 10 10	H Age	Sub-Car Oa Wh Re	h opy Species k (spp.) ite Pine d Maple	DensityLowLow	Avg. Height 5 - 10 feet 5 - 10 feet	Sapling Sapling	Descent quality overall, Some white pine and oak regen along with jack
	Canopy Species White Pine White Oak Red Pine Red Oak 42110 - Plan Canopy Species	% Cover 5 15 45 35	Size Class Pole Pole/Log Log/Pole Log/Pole	DBH 8 9 10 10 3 awtimb	65 ber Well	Sub-Car Oa Wr Re 28.8	h opy Species k (spp.) ite Pine d Maple	Density Low Low Low	Avg. Height 5 - 10 feet 5 - 10 feet 5 - 10 feet	Sapling Sapling	pesticide treatment pocket within it.
	Canopy Species White Pine White Oak Red Pine Red Oak 42110 - Plan Canopy Species Red Pine	% Cover 5 15 45 35 nted Red P % Cover 98	Size Class Pole Pole/Log Log/Pole Log/Pole	DBI 8 9 10 10	65 ber Well	Sub-Car Oa Wh Re 28.8 Sub-Car	hopy Species k (spp.) hite Pine d Maple 71	Density Low Low Low	Avg. Height 5 - 10 feet 5 - 10 feet 5 - 10 feet N/A Avg. Height 5 - 10 feet	Sapling Sapling Sapling Size Sapling	Descent quality overall, Some white pine and oak regen along with jack
	Canopy Species White Pine White Oak Red Pine Red Oak 42110 - Plan Canopy Species	% Cover 5 15 45 35	Size Class Pole Pole/Log Log/Pole Log/Pole	DBH 8 9 10 10 3 awtimb	65 ber Well	Sub-Car Oa Wh Re 28.8 Sub-Car Wh	hopy Species k (spp.) iite Pine d Maple 71 71 hopy Species	Density Low Low Low T11-140 Density	Avg. Height 5 - 10 feet 5 - 10 feet 5 - 10 feet N/A Avg. Height	Sapling Sapling Sapling Size Sapling Sapling	Descent quality overall, Some white pine and oak regen along with jack
	Canopy Species White Pine White Oak Red Pine Red Oak 42110 - Plan Canopy Species Red Pine	% Cover 5 15 45 35 nted Red P % Cover 98	Size Class Pole Pole/Log Log/Pole Log/Pole Size Class Log/Pole Log/Pole	DBI 8 9 10 10 200 Sawtimb DBI 10	65 ber Well	Sub-Car Oa Wh Re 28.8 Sub-Car Wh Oa	hopy Species k (spp.) ite Pine d Maple 71 71 hopy Species ite Pine	Density Low Low Low 111-140 Density Low	Avg. Height 5 - 10 feet 5 - 10 feet 5 - 10 feet N/A Avg. Height 5 - 10 feet	Sapling Sapling Sapling Size Sapling	Descent quality overall, Some white pine and oak regen along with jack
	Canopy Species White Pine White Oak Red Pine Red Oak 42110 - Plan Canopy Species Red Pine White Oak 4126 - White, E	% Cover 5 15 45 35 nted Red P % Cover 98 2 Black, N. Pi	Size Class Pole Pole/Log Log/Pole Log/Pole Size Class Log/Pole Pole	DBH 8 9 10 20 Sawtime DBH 10 Sawtime Sawtime	65 65 ber Well 71 0er Pool	Sub-Ca Oa Wr Re 28.8 Sub-Ca Wr Oa Ja 38.1	hopy Species k (spp.) hite Pine d Maple 71 hopy Species hite Pine k (spp.) ck Pine 88	Density Low	Avg. Height 5 - 10 feet 5 - 10 feet 5 - 10 feet N/A Avg. Height 5 - 10 feet < 5 feet 5 - 10 feet N/A	Sapling Sapling Sapling Size Sapling Sapling Sapling	Descent quality overall, Some white pine and oak regen along with jack pine in more open areas. Scattered oak in overstory.
103	Canopy Species White Pine White Oak Red Pine Red Oak 42110 - Plan 42110 - Plan Canopy Species White Oak 4126 - White, E	% Cover 5 15 45 35 nted Red P % Cover 98 2 Black, N. Pi % Cover	Size Class Pole Pole/Log Log/Pole ine S Size Class Log/Pole Pole in Oak S Size Class	DBI 8 9 10 20 Sawtimb DBI 10 Sawtimb Sawtimb DBI 30	65 65 H Age 71	Sub-Ca Oa Wr Re 28.8 Sub-Ca Wr Oa Ja 38.1 Sub-Ca	hopy Species k (spp.) hite Pine d Maple 71 hopy Species hite Pine k (spp.) ck Pine 88 hopy Species	Density Low	Avg. Height 5 - 10 feet 5 - 10 feet 5 - 10 feet N/A Avg. Height 5 - 10 feet 5 - 10 feet 5 - 10 feet N/A Avg. Height	Sapling Sapling Sapling Size Sapling Sapling Sapling Sapling	Descent quality overall, Some white pine and oak regen along with jack pine in more open areas. Scattered oak in overstory.
103	Canopy Species White Pine White Oak Red Pine Red Oak 42110 - Plan Canopy Species Red Pine White Oak 4126 - White, E Canopy Species Jack Pine	% Cover 5 15 45 35 Inted Red P % Cover 98 2 Black, N. Pi % Cover 15	Size Class Pole Pole/Log Log/Pole ine S Size Class Log/Pole Pole Size Class Size Class	DBI 8 9 10 200 Sawtimb DBI 10 Sawtimb DBI 5	65 65 ber Well 71 0er Pool	Sub-Ca Oa Wr Re 28.8 Sub-Ca Wr Oa Ja 38.1 Sub-Ca Ja	hopy Species k (spp.) hite Pine d Maple 71 hopy Species hite Pine k (spp.) ck Pine 88 hopy Species ck Pine	Density Low Density Medium	Avg. Height 5 - 10 feet 5 - 10 feet 5 - 10 feet N/A Avg. Height 5 - 10 feet 5 - 10 feet N/A Avg. Height 10 - 20 feet	Sapling Sapling Sapling Size Sapling Sapling Sapling Sapling	Descent quality overall, Some white pine and oak regen along with jack pine in more open areas. Scattered oak in overstory.
103	Canopy Species White Pine White Oak Red Pine Red Oak 42110 - Plan 42110 - Plan Canopy Species Red Pine White Oak 4126 - White, E Canopy Species Jack Pine ck/Red (Hybrid) Oak	% Cover 5 15 45 35 Inted Red P % Cover 98 2 Black, N. Pi % Cover 15 15	Size Class Pole/Log Log/Pole Log/Pole ine Size Class Log/Pole Pole Size Class Pole/Sapling Log/Pole	DBI 8 9 10 20 Sawtimb DBI 10 Sawtimb Sawtimb DBI 30	H Age 65 Der Well H Age 71 Der Poor H Age	Sub-Ca Oa Wh Re 28.8 Sub-Ca Ja 38.1 Sub-Ca Ja Re	hopy Species k (spp.) hite Pine d Maple 71 nopy Species hite Pine k (spp.) ck Pine 88 nopy Species ck Pine ed Pine	Density Low Density	Avg. Height 5 - 10 feet 5 - 10 feet 5 - 10 feet N/A Avg. Height 5 - 10 feet 5 - 10 feet 5 - 10 feet N/A Avg. Height	Sapling Sapling Sapling Size Sapling Sapling Sapling Size Sapling Sapling	Descent quality overall, Some white pine and oak regen along with jack pine in more open areas. Scattered oak in overstory.
103	Canopy Species White Pine White Oak Red Pine Red Oak 42110 - Plan Canopy Species Red Pine White Oak 4126 - White, E Canopy Species Jack Pine	% Cover 5 15 45 35 Inted Red P % Cover 98 2 Black, N. Pi % Cover 15	Size Class Pole Pole/Log Log/Pole ine S Size Class Log/Pole Pole Size Class Size Class	DBI 8 9 10 200 Sawtimb DBI 10 Sawtimb DBI 5	H Age 65 Der Well H Age 71 Der Pool	Sub-Ca Oa Wh Re 28.8 Sub-Ca Ja 38.1 Sub-Ca Ja Re	hopy Species k (spp.) hite Pine d Maple 71 hopy Species hite Pine k (spp.) ck Pine 88 hopy Species ck Pine	Density Low Density Medium	Avg. Height 5 - 10 feet 5 - 10 feet 5 - 10 feet N/A Avg. Height 5 - 10 feet 5 - 10 feet N/A Avg. Height 10 - 20 feet 5 - 10 feet 5 - 10 feet 5 - 10 feet	Sapling Sapling Sapling Size Sapling Sapling Sapling Sapling Sapling Sapling Sapling	Descent quality overall, Some white pine and oak regen along with jack pine in more open areas. Scattered oak in overstory.
103	Canopy Species White Pine White Oak Red Pine Red Oak 42110 - Plan 42110 - Plan Canopy Species Red Pine White Oak 4126 - White, E Canopy Species Jack Pine ck/Red (Hybrid) Oak	% Cover 5 15 45 35 Inted Red P % Cover 98 2 Black, N. Pi % Cover 15 15	Size Class Pole/Log Log/Pole Log/Pole ine Size Class Log/Pole Pole Size Class Pole/Sapling Log/Pole	DBI 8 9 10 10 Sawtimt DBI Sawtimt 5 12	H Age 65 Der Well H Age 71 Der Poor H Age	Sub-Ca Oa Wh Re 28.8 Sub-Ca Oa Ja 38.1 Sub-Ca Ja Re Re	hopy Species k (spp.) hite Pine d Maple 71 nopy Species hite Pine k (spp.) ck Pine 88 nopy Species ck Pine ed Pine	Density Low McGum Low	Avg. Height 5 - 10 feet 5 - 10 feet 5 - 10 feet N/A Avg. Height 5 - 10 feet 5 - 10 feet 5 - 10 feet N/A Avg. Height 10 - 20 feet 5 - 10 feet 5 - 10 feet 5 - 10 feet 5 - 10 feet	Sapling Sapling Sapling Size Sapling Sapling Sapling Sapling Sapling Sapling Sapling	Descent quality overall, Some white pine and oak regen along with jack pine in more open areas. Scattered oak in overstory.
103	Canopy Species White Pine White Oak Red Pine Red Oak 42110 - Plan 42110 - Plan Canopy Species Red Pine White Oak 4126 - White, E Canopy Species Jack Pine ck/Red (Hybrid) Oak	% Cover 5 15 45 35 Inted Red P % Cover 98 2 Black, N. Pi % Cover 15 15	Size Class Pole/Log Log/Pole Log/Pole ine Size Class Log/Pole Pole Size Class Pole/Sapling Log/Pole	DBI 8 9 10 10 Sawtimt DBI Sawtimt 5 12	H Age 65 Der Well H Age 71 Der Poor H Age	Sub-Car Oa Wh Re 28.8 Sub-Car Oa Ja 38.1 Sub-Car Ja Sub-Car Ja Re Quak	hopy Species k (spp.) hite Pine d Maple 71 hopy Species hite Pine k (spp.) ck Pine 88 hopy Species ck Pine ed Pine d Maple	Density □ □	Avg. Height 5 - 10 feet 5 - 10 feet 5 - 10 feet N/A Avg. Height 5 - 10 feet 5 - 10 feet N/A Avg. Height 10 - 20 feet 5 - 10 feet 5 - 10 feet 5 - 10 feet	Sapling Sapling Sapling Size Sapling Sapling Sapling Sapling Sapling Sapling Sapling	Descent quality overall, Some white pine and oak regen along with jack pine in more open areas. Scattered oak in overstory.

Report 7 – Stands



Stand	d Level 4 Cover Type			ize De	nsity	Acres	Acres Stand Age BA Range			Site	General Comments
105	42210 - Nat	tural Red P	ine Sa	Sawtimber Well		Well 16.3	76	111-140	N/A		Red pine/conifer stand along Boardman River, Includes Natural Rivers
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	corridor. Stand includes lowland/rivers edge which has cedar and fir, occasional aspen throughout.
	Balsam Fir	5	Pole/Sapling	6		Ta	ag Alder	Low	< 5 feet	Tall Shrub	
Nor	thern White Cedar	5	Pole/Log	10		Oa	ak (spp.)	Low	5 - 10 feet	Sapling	
	White Pine	10	Log/Pole	12		Ва	lsam Fir	Low	5 - 10 feet	Sapling	
	Red Pine	60	Log/Pole	10	76						
	Hemlock	5	Pole/Log	10							
	Red Oak	10	Log/Pole	12							
	Bigtooth Aspen	5	Pole	8							
106	42210 - Nat	tural Red P	ine Sa	awtimb	er Well	53.4	83	81-110	N/A		
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	
	Red Maple	5	Pole	5		Wł	nite Pine	Medium	5 - 10 feet	Sapling	
	White Pine	10	Pole/Sapling	7		Oa	ak (spp.)	Medium	5 - 10 feet	Sapling	
	Red Pine	80	Log/Pole	10	83						-
	Jack Pine	5	Pole/Sapling	6							
107	42210 - Nat	tural Red P	ine Sa	awtimb	er Well	22.7	91	81-110	N/A		
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	
	White Oak	10	Log/Pole	10		Wł	nite Pine	Medium	5 - 10 feet	Sapling	
	White Pine	10	Log/Pole	12		Oa	ak (spp.)	Medium	5 - 10 feet	Sapling	
	Red Pine	70	Log/Pole/XLog	12	91	Ja	ick Pine	Medium	5 - 10 feet	Sapling	
	Jack Pine	10	Pole	8							1
108	310 - Herbac	eous Open	land	Nonsto	cked	1.4					Well site, grassy opening otherwise. Some seedlings at southern edge.
109	310 - Herbaceous Openland Nonstocked				cked	0.9					Well site. Intersection of two roads creating an opening.
110	110 - Low Ir	ntensity Urb	ban	Nonsto	cked	5.6					Gas well/compression station.
111	310 - Herbac	eous Open	land	Nonsto	cked	0.7			No		Well site (plugged 1999).

Report 7 – Stands

MICHIGAN

Stand	Level 4 C	over Type		Size D	ensity	Acres	Stand Age	BA Range	Managed S	Site	General Comments		
112	4133 - Aspe	en, Mixed P	Pine	Poletimber Well		29.8	41	81-110	N/A		Mixed stand of aspen with red pine and oak log sized trees. Stand		
	Canopy Species	% Cover	Size Class	DB	H Age	Sub-Ca	nopy Specie	s Density	Avg. Height	Size	resulting from an aspen and jack pine removal where red pine and oak were left as residual.		
	Jack Pine	5	Pole	6		Oa	ak (spp.)	Medium	< 5 feet	Sapling			
	Red Maple	5	Pole	6		Wł	nite Pine	Low	5 - 10 feet	Sapling			
	Bigtooth Aspen	60	Pole	6	41						-		
	Red Pine	20	Log/Pole	10									
	White Oak	10	Log/Pole	10									
113	4319 - Mixeo	d Upland Fo	prest	Saplir	ng Well	13.7	15	Immature	N/A		jp plantation w/ deciduous species thick throughout resulting from stump		
	Canopy Species	% Cover	Size Class	DB	H Age						sprouts when harvested.		
	Red Maple	15	Sapling	2									
	White Oak	15	Sapling	2									
	Quaking Aspen	5	Sapling	2									
	Black Cherry	15	Sapling	1									
	Jack Pine	50	Sapling	2	15								
114	42210 - Na	tural Red P	ine	Sawtim	ber Well	11.5	75	81-110	N/A		Red pine stand, continuation of stand to the west, however no jack		
114	Canopy Species		Size Class		H Age	_	nopy Specie		Avg. Height	Size	present and overall density is lower and more variable throughout. New		
	White Pine	10	Log/Pole	10	_		nite Pine	Medium	5 - 10 feet	Sapling	stand added.		
	Red Pine	80	Log/Pole	12			ak (spp.)	Medium	5 - 10 feet	Sapling			
	White Oak	5	Log/Pole	10			(
	Red Maple	5	Pole	7									
115	42220 - Nat	tural Jack F	Pine Po	oletimb	er Mediur	n 1.7	46	1-50	N/A		Small jack pine stand with cherry throughout. Low quality, overall low		
	Canopy Species	% Cover	Size Class	DB	H Age	Sub-Ca	nopy Species	s Density	Avg. Height	Size	density. Possible retention area for stand to south.		
	Red Pine	2	Log	10		Blad	ck Cherry	Low	5 - 10 feet	Sapling			
	Jack Pine	85	Pole/Sapling	g 7	46	Wł	nite Pine	Medium	5 - 10 feet	Sapling			
	Black Cherry	13	Pole/Sapling	g 5		Re	d Maple	Low	5 - 10 feet	Sapling			
117	622 - Lov	wland Shrul	0	Nons	tocked	18.3		Immature	No		lowland stand w/ some trees scattered around on hummocks and higher		
					Γ	Sub-Ca	nopy Specie	s Density	Avg. Height	Size	areas. stand contains boardman river corridor which may have some higher/upland banks included.		
						Quak	king Aspen	Low		Sapling			
						Wł	nite Pine	Low		Sapling			
							Alder	Medium		Tall Shrub			



DNR

Stand	Level 4 Co	over Type	s	ize De	nsity	Acres	Stand Age	BA Rang	e	Managed S	ite	General Comments
206	4123 -	Sawtimber Wel			76.9	89	81-110		N/A		Oak and pine stand, fair quality. Oak is declining slightly, red and white	
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Specie	es Dens	sity	Avg. Height	Size	pine are growing well throughout. White pine is regenerating heavily in places, portions of stand are in the process of converting to a more white
	Red Pine	15	Log/Pole	12		Red Maple	Lo	Low	5 - 10 feet	Sapling	pine dominated system. Some scattered oak regeneration. Aspen	
I	Bigtooth Aspen	10	Pole	8		White Pine		Hig	gh	10 - 20 feet	Sapling	clones and some red pine pockets, most along Guernsey Lake road.
	White Pine	10	Log/Pole/XLog	10		Oa	ak (spp.)	Lo	Low 5 - 10 feet	Sapling	Jack pine present in some of the areas more heavility dominated by red	
	Red Oak	50	Log/Pole	12	89							date 2/8/2012.
	White Oak	10	Log/Pole	10								
	Red Maple	5	Pole/Sapling	7								