

# **Compartment Review Presentation**

**Traverse City Forest Management Unit** 

Compartment 61222
Entry Year 2025
Acreage: 2,000
County Kalkaska

Management Area: Kalkaska Sandy Moraines

Stand Examiner: Steve Crigier

**Legal Description:** 

T26N R5W, Sections 9, 16, 21, 28 and 29

#### **Identified Planning Goals:**

This compartment is part of the Kalkaska Sandy Moraines Management area. Management goals for this MA include balancing the age classes of aspen on suitable sites, thinning northern hardwoods, balancing age classes of red pine and jack pine, and regenerating the aging swamp hardwood and conifer resource. Dominant cover types in this compartment include nearly 500 acres of opening, which Wildlife Division attempts to maintain with prescribed burning, and 400 acres of planted red pine. There are also sizeable stands of oak and wetland conifers. Management challenges include maintaining wildlife openings given the logistical and funding challenges that make prescribed burning increasingly hard to accomplish and regenerating certain species, especially in wet areas, in the context of elevated deer browse levels. While not true old growth, a couple natural pine stands are starting to exhibit complex vertical structure, species diversity and good habitat value. These values will be promoted within these stands.

#### Soil and topography:

Most of the compartment lies on sandy soils including Rubicon, Croswell, and Au Gres sands. The areas near the Manistee River and Black Creek are dominated by wetlands with poorly drained muck soils including Au Sable-Bowstring and Tawas-Leafriver mucks. Most of the compartment is flat with the exception of a relatively steep ridge north of Riverview Road. This ridge, which gains 200 feet of elevation, generally faces southeast and south with multiple smaller valleys.

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

Several private parcels are located along the Manistee River. These are mostly cabins with seasonal use. The private parcel along the Manistee River, which divides this compartment into two parts, is protected by the Grand Traverse Regional Land Conservancy with a conservation easement. Three parcels that were owned by Consumers Energy and formerly had private leases have been added to the compartment since the last inventory. Section 9 and most of Section 16 is leased to the Department of Military and Veterans Affairs as part of the Camp Grayling training area. The Black Creek Conservation association owns nearly 1,500 acres west of this compartment, which it manages primarily for white-tailed deer habitat.

#### **Unique Natural Features:**

There is at least one record of a state-Special Concern animal species in the compartment. A few jack pine stands, although relatively small, are within the age range that might support Kirtland's warblers.

#### Archeological, Historical, and Cultural Features:

There is at least one known archaeological site in Section 16 and potential for additional sites is higher because of the river corridor.

#### **Special Management Designations or Considerations:**

One stand of natural red and white pine is proposed for designation as a Special Conservation Area (SCA) due to its age and diversity. This area extends into Compartment 122 to the west. Eastern Massasauga Managed Lands (HVCA) encompasses section 29, western portion of section 21 and the southwestern part of section 16. The Natural Rivers Vegetative Buffer along the Manistee River.

#### **Watershed and Fisheries Considerations:**

The Manistee River and its tributaries are protected by the Natural Rivers Act, which prohibits most timber management within 175 feet of the river and 50 feet of tributaries. The Manistee River is a Designated Trout Stream. The Upper Manistee River supports self-sustaining populations of brook and brown trout and is a world-famous trout fishery. Black Creek is also a Designated Trout Stream.

#### Wildlife Habitat Considerations:

Feature Wildlife Species for this MA include: pileated woodpecker, ruffed grouse, snowshoe hare, wild turkey, and white-tailed deer. [Additional text to be added by WLD.]

The Black Creek Deeryard extends into this compartment from the west. It is one of the most heavily used deeryards in the region and heavy deer concentrations affect timber management in the entire compartment due to heavy browse. There is a deer exclosure within a jack pine stand in Section 21. The large open area in the north part of the compartment, along with areas to the west, has been maintained through prescribed burning in recent history. Some of this area is filling in with woody vegetation, however, since burning has not occurred as often as necessary.

Habitat types found within this compartment of State Forest are influenced by three types of glacial formations. A large area of outwash plain consisting of poorly drained organic soils can be found along Black Creek and the Manistee River in the south. These wet soils support lowland conifers (Black Creek Deer Yard) and lowland shrub communities.

The center section of the compartment is mostly an outwash plain consisting of excessively drained sands, which supports aspen, upland brush/grass communities, and plantation pine. Fire was a major disturbance on these dry soils and should be considered a valuable treatment tool in perpetuating these fire driven ecosystems. The upland brush stands have been prescribed for burning to set back woody encroachment and stimulate native herbaceous vegetation. These stands are part of a larger burn area and will be burnt on a rotational basis during the entry cycle. Mechanical treatment including brush hog, hydro-axe, and other equipment may need to be employed when burning is not available. Monitoring and treatment of invasive plant species should be conducted as needed. Similarly, seeding of appropriate native herbaceous vegetation should be considered to further diversify this upland non-forested habitat. A variety of species make use of habitats found on these dry sandy soils, including: Kirtland's warbler, deer, ruffed grouse, smooth green snake, wild turkey, eastern box turtle, and badger.

Aspen harvests should be designed to mimic wildfires of various intensities, when possible. This creates a mosaic of age classes and increases structural diversity within an area. Harvest operations should be utilized to create some (approximately 1-2 trees per acre) coarse woody debris (CWD), preferably via timber sale specs. This provides essential habitat for various wildlife species. CWD trees should be log sized or bigger, the more decay resistant the tree species is the better, and cut approximately at breast height (4.5 feet). The log should be left within 3 feet its stump. Standing dead timber is usually left during harvest operations unless deemed a safety hazard.

The hilly region in the north of this compartment is underlain by steep, broken ice contact ridges (LTA 3121). The sandy soils found on these ridges have moderately low fertility and low available moisture. Aspen and oak communities dominate here and support a variety of wildlife.

## Mineral Resource and Development Concerns and/or Restrictions

There is no known metallic mineral potential in this part of the state. No active sand/gravel pits are known to exist in the area. Best potential for sand & gravel in the compartment is at the north end. This area is part of a lease agreement with Camp Grayling, and development of sand & gravel may not be allowed without permission from the DMVA. Relatively little oil & gas drilling has occurred in the area, and there has been no significant production for miles. Some testing and minor production from the Collingwood Formation occurred a few miles to the northeast, but the Collingwood has not been proven to be economical to produce. Other test wells that have been drilled in and around the compartment over the years have all been dry holes. Nevertheless, all State-owned mineral rights in and around the compartment were recently nominated for oil & gas leasing by Lambda Energy. Lambda's intentions in the area are unknown. The state does not own much of 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:**

Existing roads are adequate and no closures are necessary at this time.

#### **Survey Needs:**

None at this time.

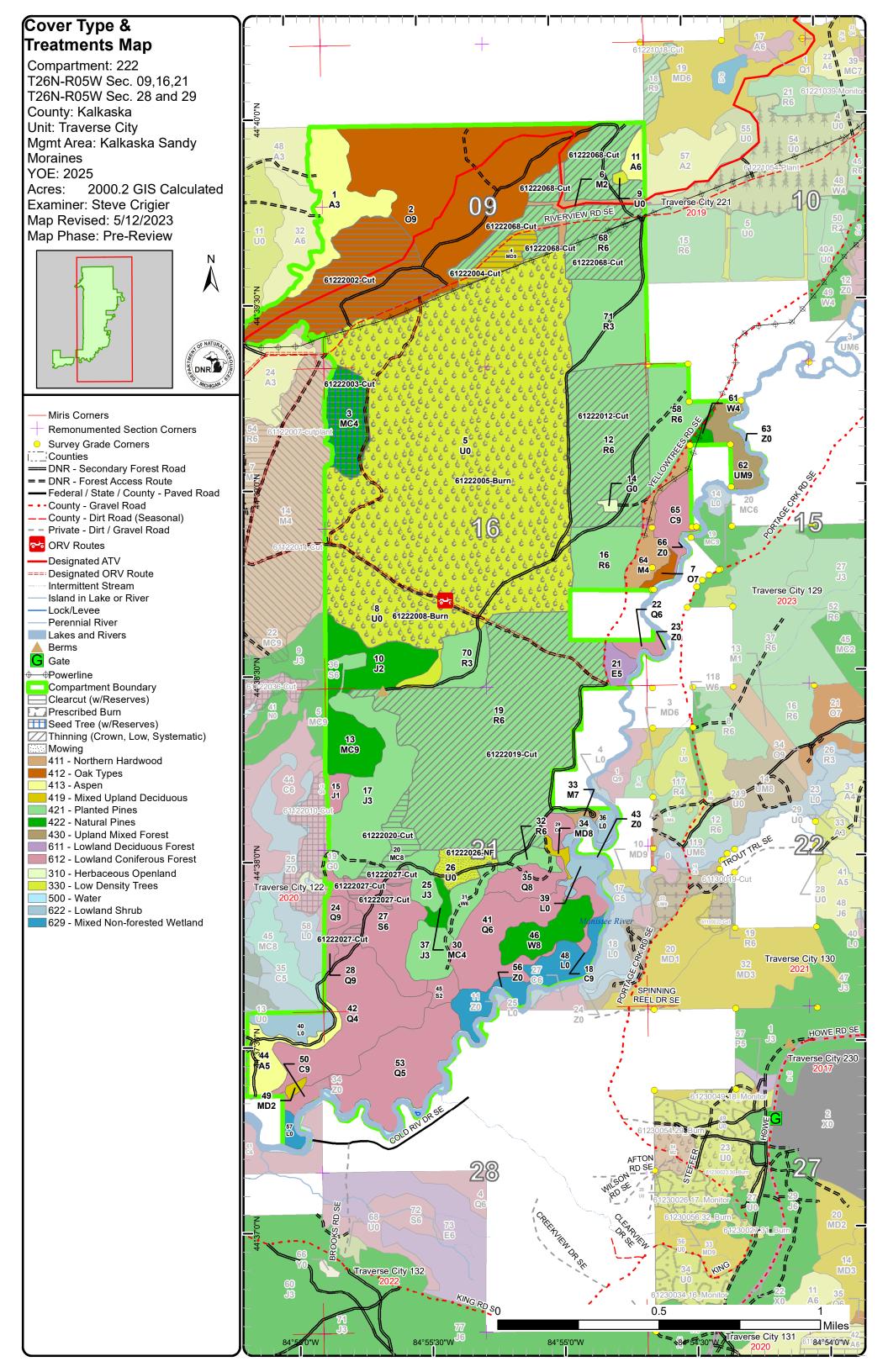
#### **Recreational Facilities and Opportunities:**

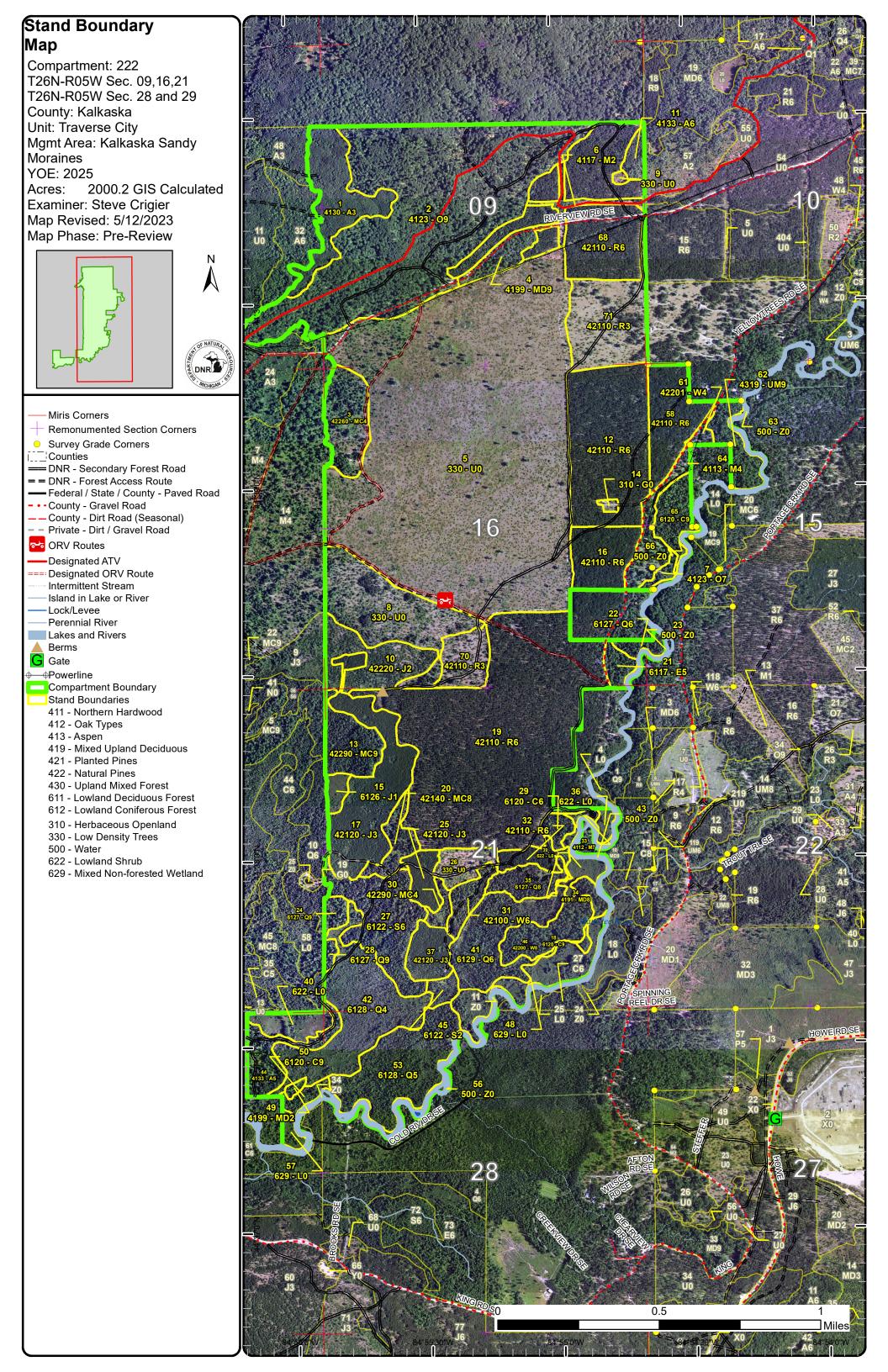
The Kalkaska ORV trail, which has a 50-inch maximum vehicle width, crosses the northern portion of the compartment in an east/west fashion. The Kalkaska ORV route, which is designed for vehicles wider than 50", bisects the compartment and then runs north along the western side of the compartment. Proposed timber management activities should include trail protection specifications to reduce impacts, as well as serve as an example of how silviculturally sound timber harvesting practices can co-exist and often improve recreation and hunting experiences for future generations. Treatments proposed directly adjacent to the ORV trail tread should include either a "flush cut" specification, or be stumped high enough (3 feet) to avoid being hidden by perennial flora (ferns). Yellow Trees Landing which provides canoe and kayak access to the Manistee River and a small parking area is in this compartment.

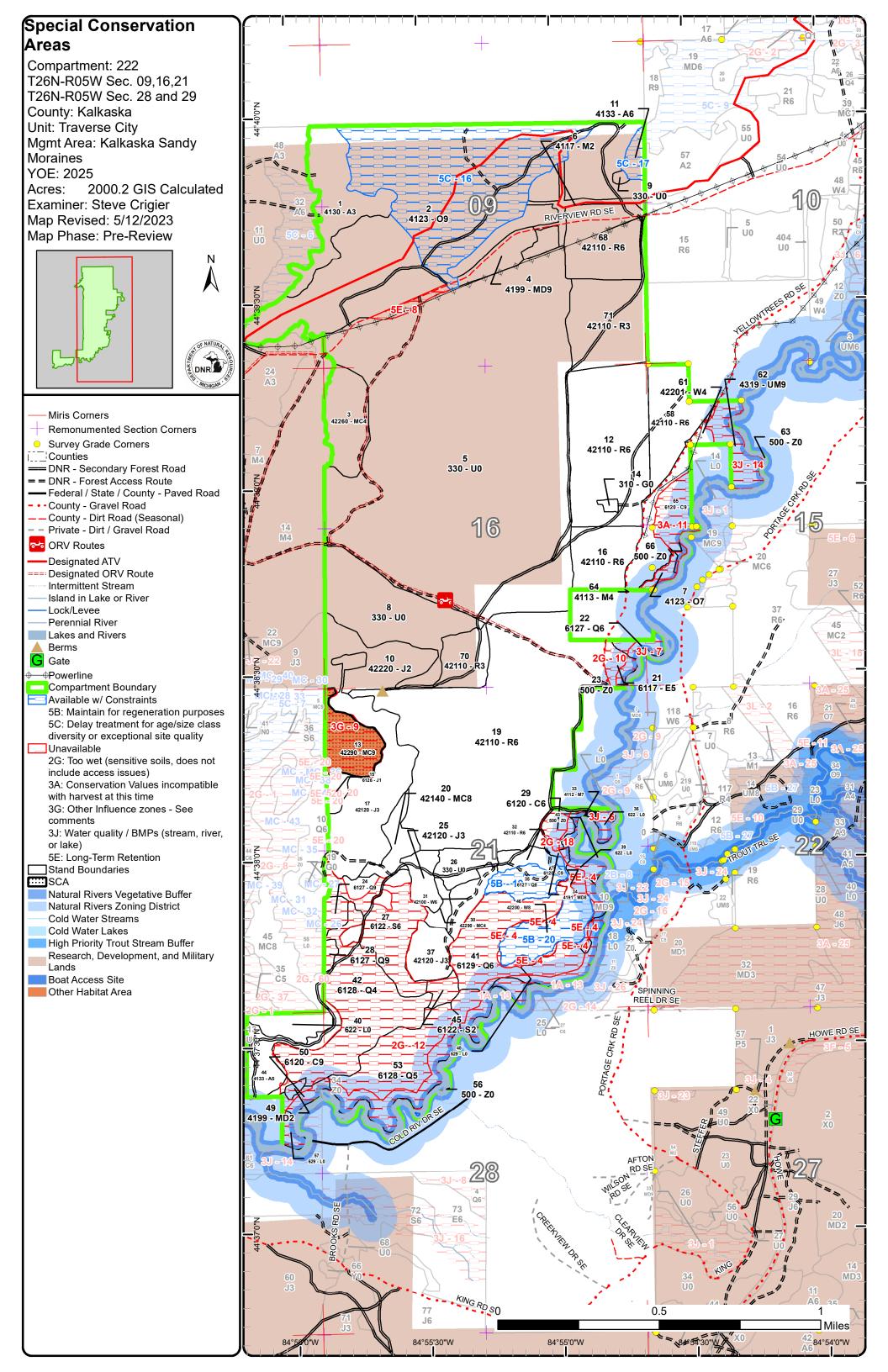
#### **Fire Protection:**

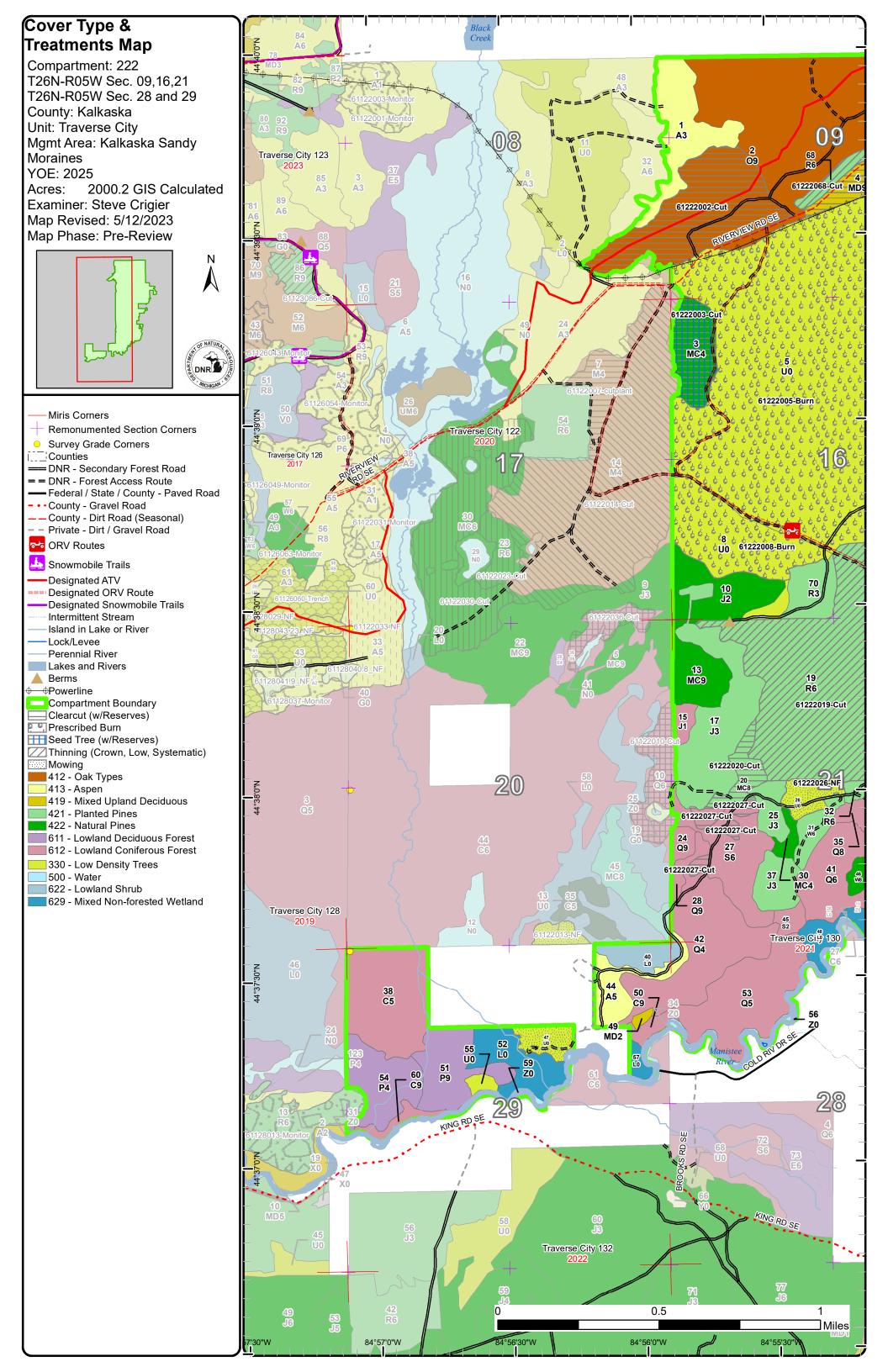
Between the wet stands along the Manistee River and the large open areas, wildfire risk in this compartment is relatively low. Due to the remoteness of this compartment, however, response time would be lengthy if a fire did start.

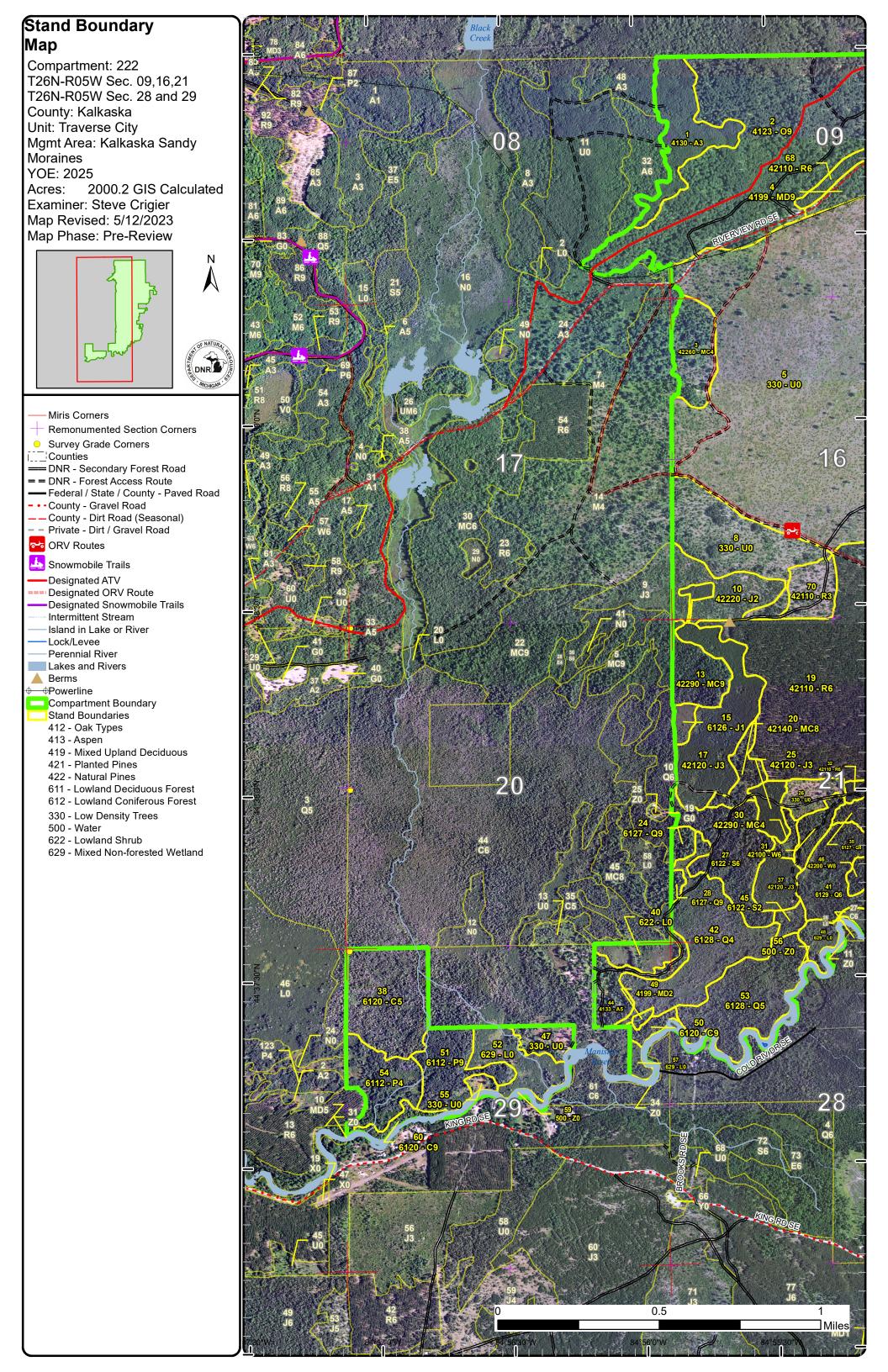
#### **Additional Compartment Information:**

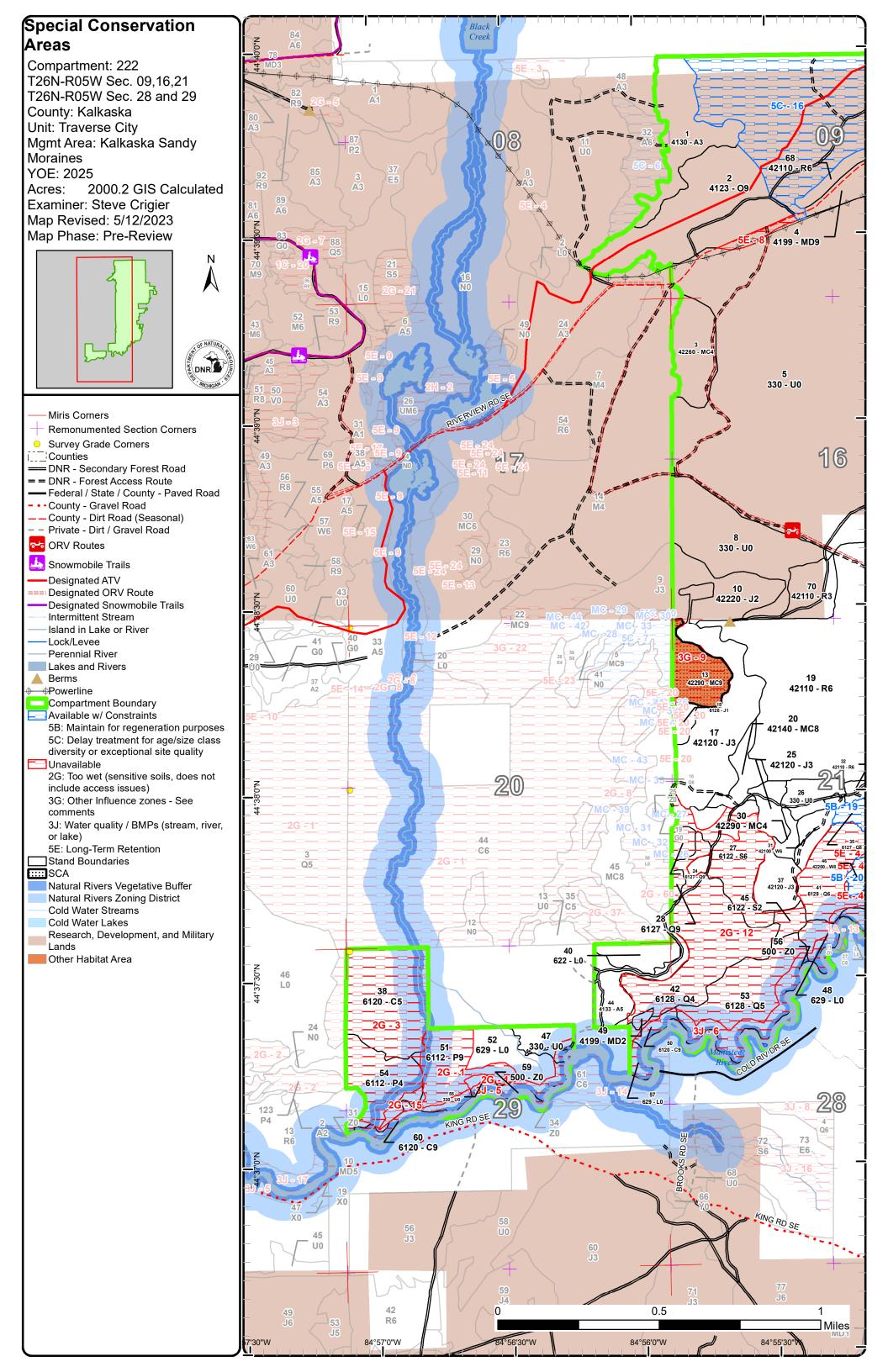


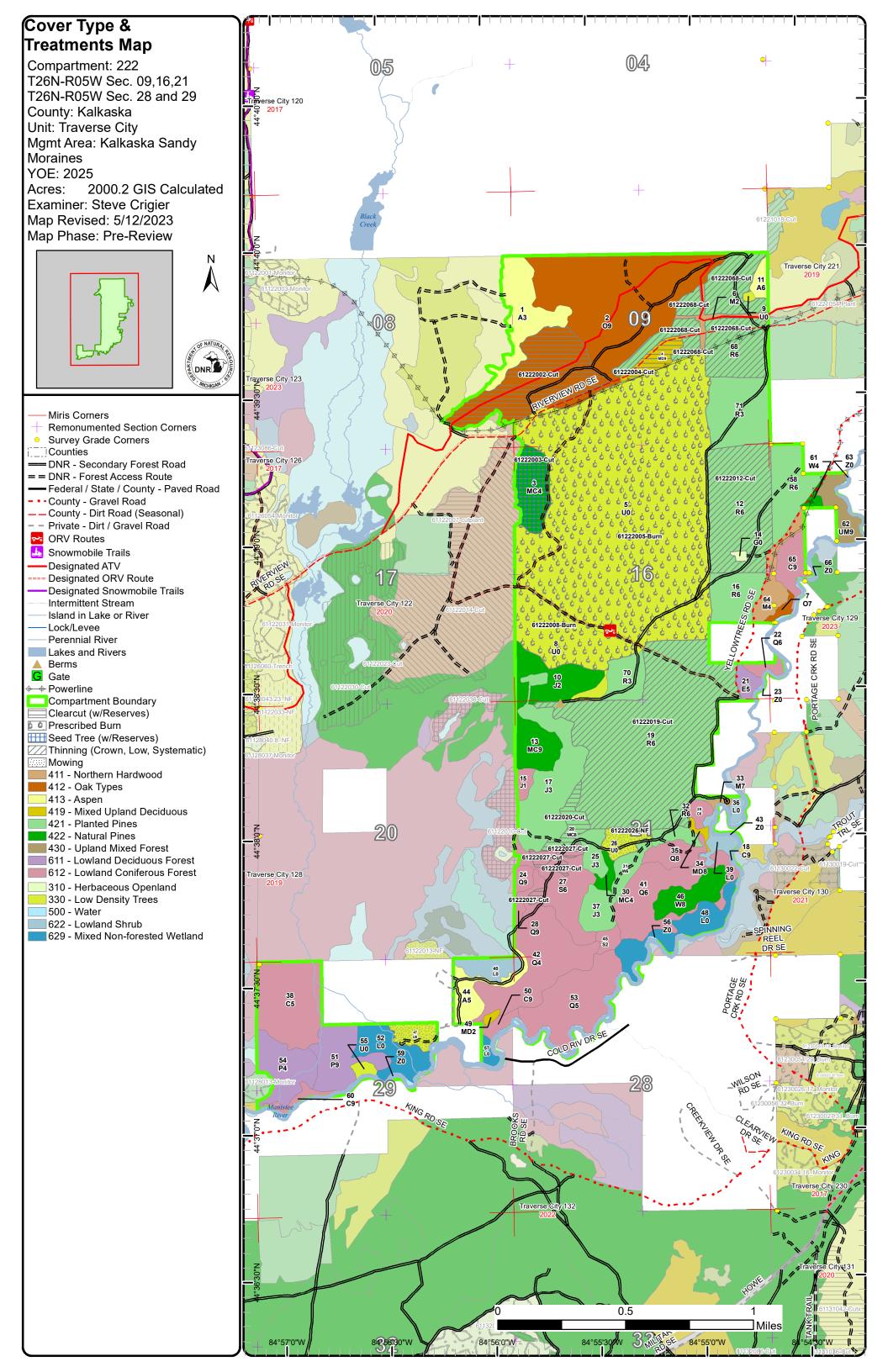












The following reports from the Inventory are attached:

**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

Traverse City Mgt. Unit
Steve Crigier: Examiner



## Age Class

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	/ ₹6	Kor /	'/ '	, / &	· / 🔊	/ 16	) / &	/ &	· / *	, / &	, / &	/ %	1/2	1.26	` / &	, \ '&	\$ / ×	\ \J.	LA LANGE
Aspen	0	0	0	0	37	18	5	0	0	0	0	0	0	0	0	0	0	0	60
Cedar	0	0	0	0	0	0	0	0	0	0	10	14	0	57	5	0	0	0	86
Herbaceous Openland	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Jack Pine	0	0	0	111	0	0	0	0	0	0	0	0	0	0	0	0	0	0	109
Low-Density Trees	509	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	509
Lowland Aspen/Balsam Poplar	0	0	0	0	29	0	28	0	0	0	0	0	0	0	0	0	0	0	57
Lowland Conifers	0	0	0	0	0	0	0	0	0	49	66	14	0	38	5	0	0	0	171
Lowland Deciduous	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0	0	6
Lowland Shrub	74	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	74
Lowland Spruce/Fir	0	0	0	0	0	0	0	5	0	0	0	40	0	0	0	0	0	0	45
Mixed Upland Deciduous	0	0	0	0	0	1	0	0	2	0	0	0	11	0	0	0	0	0	14
Natural Mixed Pines	0	0	0	0	0	29	0	0	0	0	0	0	20	0	0	0	0	0	49
Northern Hardwood	0	0	0	0	8	16	0	0	0	0	2	0	0	0	0	0	0	0	26
Oak	0	0	0	0	0	0	0	0	0	0	3	211	0	0	0	0	0	0	214
Planted Mixed Pines	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0	12
Red Pine	0	59	0	0	0	0	29	398	0	0	0	0	0	0	0	0	0	0	486
Upland Mixed Forest	0	0	0	0	0	0	0	0	0	0	0	14	0	0	0	0	0	0	14
Water	34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	34
White Pine	0	0	0	0	0	0	10	0	0	0	0	0	0	19	0	0	0	3	32
Total	618	59	0	111	74	64	72	415	2	49	81	293	31	114	16	0	0	3	1999



# **Report 2 – Treatment Summary**

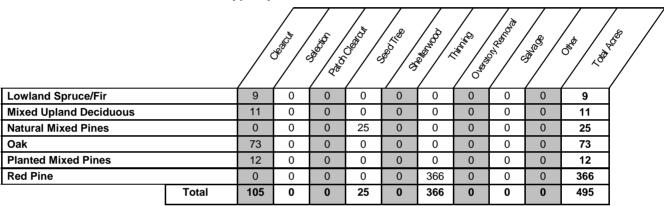
# Traverse City Mgt. Unit Year of Entry: 2025

#### **Acres of Harvest**

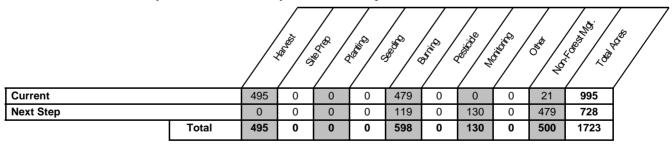
Compartment 222
Total Compartment Acres: 2,000

Commercial Harvest - 495 Harvests with Site Condition - 0 Next Step Harvest - 0 Habitat Cut - 0

## **Cover Type by Harvest Method**



## **Proposed and Next Step Treatments by Method**



Traverse City Mgt. Unit

Report 3 -- Treatments

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Treatment Acres
Name

Stand CoverType Size Stand Density Age

and BA ge Range Treatment Type Treatment Method

Cover Type Objective

Deciduous

Compartment: 222

Year of Entry: 2025

Age Structure Habitat Cut

#### **Proposed Treatments:**

2 61222002-Cut 73.1 4123 - Red Oak Sawtimber 101 51-80 Harvest Clearcut with 412 - Oak Types Even-Aged No Well Retention

Prescription Look at treating the west half with a clearcut. Protect as much regen as possible and leave1-2 trees/ac of preferably white oak for mast /seed. May want to chip for scarification and /or a follow up treatment (burn) is necessary. Oak wilt spec with no excemptions as well as low stumps. ORV trail runs mid slope and will be a challenge to protect. May look to reroute to the ridge top.

Next Step Burn, Other; Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Moderately stocked oak, aspen, pine, maple.

Regen:

Other Stand is on some moderately steep terrain. Retention is designated south of Riverview Road but can look for an additional opportunity in the

Comment: western tip. May look to burn post harvest to encourage oak sprouting.

Site Condition

Proposed Start Date: 10/1 /2024

**3 61222003-Cut** 24.9 42260 - Natural Poletimber 40 1-50 Harvest Seed Tree 31021 - Cool No Pine, Mixed Poor Season Grass

Deciduous

<u>Prescription</u> Reduce wood vegetation in preparation for a prescribe burn/ barren restoration. Mark to leave scattered large diameter oak and white pine. Specs: Spacing between leave trees should be 50-100 ft. Leave any witch hazel and service berry. Also mark a few cherry trees to leave as well.

Apply EMR seasonal restriction to this sale.

Next Step Burn, Opening; Monitoring, Natural Regen (Re-Inventory)

**Treatments:** 

Acceptable cool and warm season grasses.

Regen:

Other Look to pair with with adjacent sale '122 Pothole'. This sale is currently under contract with Precision Forestry.

Comment:

Site Condition

Proposed Start Date: 8 /1 /2023

4 61222004-Cut 11.0 4199 - Other Mixed Sawtimber 113 81-110 Harvest Clearcut with 4199 - Other Even-Aged No Upland Deciduous Well Retention Mixed Upland

<u>Prescription</u> Final harvest stand. Save all pine and mark some oak to leave for mast. Protect the oak regen during harvest. Oak wilt restriction.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

**Treatments:** 

Acceptable moderate stocked oak, aspen, maple, pine.

Regen:

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2024

t: 222	TOF NATURAL PR
y: 2025	DNR DNR
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S t	Tr	averse Cit	y Mgt. Unit		Repoi	rt 3 T	Treatments		Compartmer 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	Habitat Cut
5	61222005- Burn	425.9	330 - Low-Density Trees	Nonstocke	ed	Unspec ified	Burn	Opening	3105 - Mixed Upland Herbaceous		No
Pres Spe	cs: freque forbs.	ncy of the Remove	nal basis. The goal burns will be based exotics as needed b nast bearing shrubs	on currents by herbicidir	s needs ng or ot	of restora	ation such as re ods. Maintain a	ducing woody encro s needed with mow	pachment or pror	moting grasse	es versus
	<u>t Step</u> NonFo atments:	orestMgt, C	Other - Specify								
Acce Reg		land with s	cattered trees and s	shrubs.							
Othe Com	_		as needed. Mainta or removal of woody			mowing,	seeding of native	e grasses and forbs	s, planting native	mast bearing	g shrubs or
Site	<u>Condition</u>										
Prop	osed Start Date	<u>e:</u> 10/1 /20	024								
8	61222008- Burn	53.2	330 - Low-Density Trees	Nonstocke	ed 0	Unspec ified	Burn	Opening	3105 - Mixed Upland Herbaceous		No
Spe	herbad needs	ceous vege of restora	at least once per ent etation, promote ber tion such as reducir	ry production	on, and	recycle n	utrients. The tin	ning and frequency			
	<u>t Step</u> NonFo <u>stments:</u>	orestMgt, C	Other - Specify								
Acce Reg		land with s	cattered trees and s	shrubs.							
Othe Com			as needed. Mainta or removal of woody			mowing,	seeding of native	e grasses and forbs	s, planting native	mast bearing	g shrubs or
Site	<u>Condition</u>										
Prop	osed Start Date	<u>ə:</u> 10/1/20	024								
12	61222012-Cut	75.8	42110 - Planted Red Pine	Poletimbe Well	r 66	171- 200	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Age	d No
Pres Spe		tand for a	second time. Targe	et BA of 120	-140.						
	t Step htments:										
Acce Reg	eptable en:										
Othe											

Site Condition

Proposed Start Date: 10/1 /2024

Compartment: 222

S t

Year of Entry: 2025 а **Treatment** Size Stand BA **Treatment Treatment Cover Type** Acres Stand Age Habitat n **Objective** Method Name CoverType Density Age Range Type Structure Cut d 19 61222019-Cut 207.3 42110 - Planted Poletimber 141-Harvest Crown Thinning 4211 - Planted Even-Aged Red Pine Red Pine Well 170 Prescription Stand is ready for a second thinning. Thin stand down to 120-140 sqft/ac. Specs: Next Step Treatments: <u>Acceptable</u> Regen: Other Some areas of tight rows but most of them looked operable. Comment: Site Condition Proposed Start Date: 10/1 /2024 61222020-Cut 11.6 42140 - Planted Sawtimber 61 81-110 Harvest Clearcut with 429 - Mixed Even-Aged No Mixed Pine Medium Retention **Upland Conifers** Prescription Final harvest all the jack pine. In the red pine plantation portion mark to leave about 20 sqft/ac of red pine to leave for seed and shelter. Specs: Avoid damaging any white pine or oak advanced regen. This treatment is within the EMR managed lands. Apply appropriate cutting restrictions Monitoring, Natural Regen (Re-Inventory) Next Step **Treatments:** Acceptable Low to moderately stocked Jack pine, white pine, red pine, spruce. Regen: Other Comment: Site Condition Proposed Start Date: 10/1 /2024 61222026-NF 10.9 330 - Low-Density 3205 - Mixed Nonstocked NonForestMgt Mowing No Trees Upland Shrub Prescription Brush hog (or hand fell) around select leave trees and/or patches. Leave scattered mast producing trees and shrubs and/or conifers for wildlife food and cover. Could plant site appropriate native shrubs and/or mast producing trees for wildlife food and cover. Fertilize plantings Specs: and protect with wire cages or tubex. Considering establishing native herbaceous/forbs ground cover for wildlife food source. Next Step Burn, Opening **Treatments:** Acceptable Regen: Other Apply EMR specs. Comment: Site Condition Proposed Start Date: 10/1 /2024 61222027-Cut 8.9 6122 - Black Spruce Poletimber 103 81-110 Clearcut with 6122 - Black Harvest Even-Aged No Well Retention Spruce Prescription Final harvest pockets of spruce. Stand has several drainages and were left out of the treatment but adjust sale boundary appropriately if

needed. Cut all spruce greater than 2". Leave any white pine, cedar, oak and hemlock. This treatment is within the EMR managed lands. Specs: Apply appropriate cutting restrictions.

Monitoring, Natural Regen (Re-Inventory) Next Step

Treatments:

Acceptable Moderately stocked spruce, fir, pine, oak, aspen, maple.

Regen:

Other Recommend a winter harvest and look to pair with stand 20 and possibly stand 19.

Comment:

Site Condition

Proposed Start Date: 10/1 /2024

Traverse City Mgt. Unit Report 3 -- Treatments Compartment: 222 S Year of Entry: 2025 t а **Treatment** Acres Stand Size Stand BA **Treatment Treatment Cover Type** Age Habitat n Method Density Objective Structure Name CoverType Age Range Type Cut d 47 61222047-NF 10.1 330 - Low-Density Nonstocked Immatu NonForestMgt Mowing 3205 - Mixed No Trees **Upland Shrub** re Prescription Brush hog (or hand fell) around select leave trees and/or patches. Leave scattered mast producing trees and shrubs and/or conifers for wildlife food and cover. Could plant site appropriate native shrubs and/or mast producing trees for wildlife food and cover. Fertilize plantings Specs: and protect with wire cages or tubex. Considering establishing native herbaceous/forbs ground cover for wildlife food source. Next Step Burn, Opening Treatments: Acceptable Regen: **Other** Will need to access across private property. Apply EMR specs. Comment: Site Condition Proposed Start Date: 10/1 /2024 82.6 42110 - Planted Poletimber 141-Harvest Crown Thinning 4211 - Planted No 61222068-Cut 61 Even-Aged Red Pine Well 170 Red Pine Prescription Stand is ready for a second thinning. Target BA of 120-140. Specs:

Next Step

Treatments:

Acceptable Regen:

Other Fiber optic cable is present south of Riverview rd will need protected during harvest. Include stand 18 of compartment 221.

Comment:

Site Condition

Proposed Start Date: 10/1 /2024

Total Treatment 995.3 Acreage Proposed:

Compartment: 222

Traverse City Mgt. Unit

Steve Crigier : Examiner Year of Entry: 2025

Availa	ability for	Managemer	nt								
Total	Acres	Acres Avail	Acres	D	omina	nt Site	e Con	dition	s		
Acres	Available	With Condition	Not Available		5B	5C	2G	ЗА	3G	3J	5E
60	55	5	0	Aspen		5	0				
86	0	0	85	Cedar			56	14		13	2
1	1	0	0	Herbaceous Openland							
110	109	0	0	Jack Pine			0		0		
509	505	0	3	Low-Density Trees						3	
57	0	0	57	Lowland Aspen/Balsam Poplar			53			4	
172	1	12	158	Lowland Conifers	12		133			22	3
6	0	0	6	Lowland Deciduous			4			2	
74	31	0	43	Lowland Shrub			12			31	0
45	10	0	35	Lowland Spruce/Fir			35				
14	12	0	2	Mixed Upland Deciduous			1			1	
49	29	0	20	Natural Mixed Pines			0		20		
25	24	0	2	Northern Hardwood						2	
214	74	134	7	Oak		134		3			4
12	12	0	0	Planted Mixed Pines							
487	486	0	0	Red Pine						0	
14	0	0	14	Upland Mixed Forest						14	
34	5	0	30	Water						30	
31	12	19	0	White Pine	19		0			0	0
2,001	1,368	170	463	Total Forested Acres	31	139	295	17	20	122	9
	68%	8%	23%	Relative Percent							

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

1 Unavailable 2G: Too wet (sensitive soils, does not include access issues) 25 2H: Blocked by physical Unspecified Unspecified obstacle (e.g. upland stand in a lowland area)	d Unspecified
Comments:	

# **Report 4 – Site Conditions**

Compartment: 222

Traverse City Mgt. Unit

Steve Crigier : Examiner Year of Entry: 2025

3	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	75	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	Unspecified	Unspecified	Unspecified
	Comments: Very wet. Part of Bl	ack Creek Deeryard.					
	Unavailable	5E: Long-Term Retention	6	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	25	(Inactive)3C: Legally Designated Quiet Area, Natural Area, or Wilderness	Unspecified	Unspecified	Unspecified
	Comments: Upper Manistee Riv	ver is Designated Natural River.	Withir	n Native Vegetation Buffer f	or Manistee River (175 fee	t) or tributary (Black Creek	, 50 feet).
	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	76	(Inactive)3C: Legally Designated Quiet Area, Natural Area, or Wilderness	Unspecified	Unspecified	Unspecified
	Comments: Manistee River Nat	ural River Corridor. Within Nativ	⁄e Veg	etation Buffer for Manistee	River (175 feet).		
•	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	7	(Inactive)3C: Legally Designated Quiet Area, Natural Area, or Wilderness	Unspecified	Unspecified	Unspecified
	Comments: Manistee River Nat	ural River Corridor. Within Nativ	⁄e Veg	etation Buffer for Manistee	River (175 feet).		
}	Unavailable	5E: Long-Term Retention	4	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						

# Report 4 – Site Conditions

Traverse City Mgt. Unit

Steve Crigier : Examiner

9	Unavailable	3G: Other Influence zones - See comments	20	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Older natural pine	stand with good vertical structu	re. Allo	w natural processes to domin	ate.		
10	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	5	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
11	Unavailable	3A: Conservation Values incompatible with harvest at this time	17	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
	Comments: Manistee River, na	tural river buffer.					
12	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	183	5D: Unproductive Forest Land	Unspecified	Unspecified	Unspecified
	Comments: Wet stands and pa	arts are also unproductive suppo	orting o	nly small trees.			
14	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	14	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
15	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	4	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						

# Report 4 – Site Conditions

Traverse City Mgt. Unit

Steve Crigier : Examiner Year of Entry: 2025

Compartment: 222

16	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	134	Unspecified	Unspecified	Unspecified	Unspecified
С	comments:						
17	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	5	Unspecified	Unspecified	Unspecified	Unspecified
С	omments:						
18	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	4	Unspecified	Unspecified	Unspecified	Unspecified
С	comments:						
19	Available	5B: Maintain for regeneration purposes	12	Unspecified	Unspecified	Unspecified	Unspecified
С	omments:						
20	Available	5B: Maintain for regeneration purposes	19	Unspecified	Unspecified	Unspecified	Unspecified
С	comments:						

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Mgt. Unit

Compartment: #Type! Year of Entry:



# Report 5 - PROPOSED SPECIAL CONSERVATION AREA\* (SCA) DETAILS

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
Comments				

Traverse City Mgt. Unit Compartment: 222





# 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.

Conservation	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 condition stocked trout populations and those of other coldwater fish specific conditions for coldwater fishes may occur in Michigan lakes if the groundwater inflows, or are located in colder (northern) areas of Director's action and designated as trout resources by Fisheries	es to persist from year to year. Suitable by 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 speci 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.	es (e.g., slimy sculpin) to persist from se conditions due to substantial
SCA	Research and Military Areas	These areas provide facilities and lands specifically dedicated for include the 5,847 acre Forest Fire Experiment Station, the 12,000 Area, the Beaver Islands Archipelago Wildlife Research Area (the High and Hog Islands, all state owned land on Beaver, South Fow Wildlife Research Area, the 3,000 acre Hunt Creek Fisheries Renursery, and over 144,000 acres of Military Lands.	0 acre Houghton Lake Wildlife Research at includes most of Garden Island, all of x and North Fox Islands), the Cusino
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in influences the aquatic ecosystem and vice-versa. Because of the streams and open water wetlands, riparian areas harbor a high communities are ecologically and socially significant in their effects as aesthetics, habitat, bank stability, timber production, and their	e unique conditions adjacent to lakes, liversity of plants and wildlife. Riparian cts on water quality and quantity, as well
HCVA	Natural Rivers	There are two Natural Rivers datasets which are derived from sp approved distance from the river centerlines. The Natural Rivers most Natural Rivers. The Vegetative Buffer ranges from 25 to 10	Zoning District is a 400 foot buffer for

DNR DNCHIGAN

Stand	d Level 4 Co	over Type	Si	ize De	iloity	Acres	Stand Age BA	ritunge	Managed S	, ite	General Comments
1	4130 -	Aspen	S	Sapling	Well	37.2	30 Im	nmature	N/A		2023- Very well stocked aspen stand. Starting to convert to pole timber.
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Can	opy Species	Density	Avg. Height	Size	2013 -Clearcut in summer 1993 as Red Line Aspen. 61-016-93-01.
	Bigtooth Aspen	70	Sapling/Pole	4	30	В	eech	Trace	5 - 10 feet	Sapling	Continues into and accessed via Compartment 122, Stand 48. Military
	Red Oak	10	Sapling/Pole	3							lease land.
	Red Maple	15	Sapling/Pole	3							
	Black Cherry	5	Sapling	1							
2	4123 - F	Red Oak	Sa	wtimb	er Well	211.0	101	51-80	N/A		2023- A low to medium amount of oak regen, mostly in the western 1/3 of
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Can	opy Species	Density	Avg. Height	Size	the stand. Most of which is stunted in growth or has been browsed.  Larger timber on the south end in the flats, smaller and poor quality trees
	White Oak	15	Log/Pole	11		Red	d Maple	Medium	Variable	Sapling	on the hill top to the north. Northeastern part of the stand has mostly re
	Red Oak	70	Log	13	101	В	eech	Trace	5 - 10 feet	Sapling	maple in the understory.
	Red Maple	5	Pole	8		Bigtoo	oth Aspen	Low	10 - 20 feet	Sapling	2013 - Good quality oak. Thinned in 2007 as part of Riverview Oak sale, 61-044-05-01. Oak was thinned and all red maple, sugar maple, beech,
	Bigtooth Aspen	10	Pole/Log	8		Witc	h Hazel	Trace	5 - 10 feet	Tall Shrub	white ash, black c023herry and aspen trees were removed. ORV trail
				l	<u> </u>	Black	k Cherry	Low	10 - 20 feet	Sapling	runs through stand and was buffered. Sale extended to the west into
						Diaci					
							ite Oak	Low	5 - 10 feet	Sapling	Compartment 122. Rolling hills, including steep hills, with 200'+ elevation gain. Hills caused some operability issues during sale but crew was able to work around them. Fair to good regeneration but not a lot of oak. Some red maple seedlings and stump sprouts, some 2-3" DBH. Very heavy browse on red maple and other seedlings. Some pockets of dens aspen regeneration in canopy gaps. Some oak mortality. A couple
2	42260 - Natural Pin	ne Miyed C	peciduous Po	letimh	er Poor	Wh				Sapling	Compartment 122. Rolling hills, including steep hills, with 200'+ elevation gain. Hills caused some operability issues during sale but crew was able to work around them. Fair to good regeneration but not a lot of oak. Some red maple seedlings and stump sprouts, some 2-3" DBH. Very heavy browse on red maple and other seedlings. Some pockets of dense aspen regeneration in canopy gaps. Some oak mortality. A couple pockets with dense conifer understory in northwest corner. Military lease land. Private property boundary along north edge is fenced and posted.
3	42260 - Natural Pin				er Poor	Wh	40	1-50	N/A		Compartment 122. Rolling hills, including steep hills, with 200'+ elevation gain. Hills caused some operability issues during sale but crew was able to work around them. Fair to good regeneration but not a lot of oak. Some red maple seedlings and stump sprouts, some 2-3" DBH. Very heavy browse on red maple and other seedlings. Some pockets of dense aspen regeneration in canopy gaps. Some oak mortality. A couple pockets with dense conifer understory in northwest corner. Military lease land. Private property boundary along north edge is fenced and posted.  Steve Griffith 11/30/22-This stand has a history of prescribed burning. On FTP W62-455 of 1962 it was part of burn unit 3 and 4. I think that it
3	Canopy Species	% Cover	Size Class	DBH	er Poor	Wh 24.9 Sub-Can	40 nopy Species	1-50 Density	N/A Avg. Height	Size	Compartment 122. Rolling hills, including steep hills, with 200'+ elevation gain. Hills caused some operability issues during sale but crew was able to work around them. Fair to good regeneration but not a lot of oak. Some red maple seedlings and stump sprouts, some 2-3" DBH. Very heavy browse on red maple and other seedlings. Some pockets of dense aspen regeneration in canopy gaps. Some oak mortality. A couple pockets with dense conifer understory in northwest corner. Military lease land. Private property boundary along north edge is fenced and posted.  Steve Griffith 11/30/22-This stand has a history of prescribed burning. On FTP W62-455 of 1962 it was part of burn unit 3 and 4. I think that it the WP 9.9" dbh and smaller were removed from this stand, with possible
3	Canopy Species White Pine	<b>% Cover</b> 30	Size Class Pole/Sapling	<b>DBH</b>	Age	Wh  24.9  Sub-Can	40 nopy Species k Cherry	1-50  Density  Medium	N/A Avg. Height 5 - 10 feet	Size Sapling	Compartment 122. Rolling hills, including steep hills, with 200'+ elevation gain. Hills caused some operability issues during sale but crew was able to work around them. Fair to good regeneration but not a lot of oak. Some red maple seedlings and stump sprouts, some 2-3" DBH. Very heavy browse on red maple and other seedlings. Some pockets of dense aspen regeneration in canopy gaps. Some oak mortality. A couple pockets with dense conifer understory in northwest corner. Military lease land. Private property boundary along north edge is fenced and posted.  Steve Griffith 11/30/22-This stand has a history of prescribed burning. On FTP W62-455 of 1962 it was part of burn unit 3 and 4. I think that it the WP 9.9" dbh and smaller were removed from this stand, with possible few additional trees, it would be burnable. Discuss with FRD! The center
3	Canopy Species White Pine Jack Pine	% Cover 30 40	Size Class Pole/Sapling Pole/Sapling	<b>DBH</b> 6		24.9  Sub-Can  Black Little	40 nopy Species k Cherry Bluestem	1-50  Density  Medium  High	N/A  Avg. Height 5 - 10 feet  Unspecified	Size Sapling Non-Wood	Compartment 122. Rolling hills, including steep hills, with 200'+ elevation gain. Hills caused some operability issues during sale but crew was able to work around them. Fair to good regeneration but not a lot of oak. Some red maple seedlings and stump sprouts, some 2-3" DBH. Very heavy browse on red maple and other seedlings. Some pockets of dense aspen regeneration in canopy gaps. Some oak mortality. A couple pockets with dense conifer understory in northwest corner. Military lease land. Private property boundary along north edge is fenced and posted.  Steve Griffith 11/30/22-This stand has a history of prescribed burning. On FTP W62-455 of 1962 it was part of burn unit 3 and 4. I think that it the WP 9.9" dbh and smaller were removed from this stand, with possibl few additional trees, it would be burnable. Discuss with FRD! The center third of this stand just has shrubs and saplings for woody veg. Also found throughout the stand little bluestem, blueberry, sweetfern,
3	Canopy Species White Pine Jack Pine Red Maple	% Cover 30 40 10	Size Class Pole/Sapling Pole/Sapling Sapling	<b>DBH</b> 6 6 2	<b>Age</b> 40	24.9  Sub-Can  Blact Little I  Witch	40 nopy Species k Cherry Bluestem	1-50  Density  Medium  High  Low	N/A  Avg. Height 5 - 10 feet Unspecified < 5 feet	Size Sapling Non-Wood Tall Shrub	Compartment 122. Rolling hills, including steep hills, with 200'+ elevation gain. Hills caused some operability issues during sale but crew was able to work around them. Fair to good regeneration but not a lot of oak. Some red maple seedlings and stump sprouts, some 2-3" DBH. Very heavy browse on red maple and other seedlings. Some pockets of dense aspen regeneration in canopy gaps. Some oak mortality. A couple pockets with dense conifer understory in northwest corner. Military lease land. Private property boundary along north edge is fenced and posted.  Steve Griffith 11/30/22-This stand has a history of prescribed burning. On FTP W62-455 of 1962 it was part of burn unit 3 and 4. I think that it the WP 9.9" dbh and smaller were removed from this stand, with possible few additional trees, it would be burnable. Discuss with FRD! The center third of this stand just has shrubs and saplings for woody veg. Also found throughout the stand little bluestem, blueberry, sweetfern, Juneberry, witch hazel, prairie willow, and old plow lines.
	Canopy Species White Pine Jack Pine Red Maple Black Cherry	% Cover 30 40 10	Size Class Pole/Sapling Pole/Sapling Sapling Sapling	6 6 2 2	<b>Age</b> 40	r 24.9 Sub-Can Blact Little I Witc	40 Ropy Species R Cherry Bluestem Ch Hazel Rh Hazel	1-50  Density  Medium  High  Low  Low	N/A  Avg. Height 5 - 10 feet  Unspecified < 5 feet < 5 feet	Size Sapling Non-Wood Tall Shrub	Compartment 122. Rolling hills, including steep hills, with 200'+ elevation gain. Hills caused some operability issues during sale but crew was able to work around them. Fair to good regeneration but not a lot of oak. Some red maple seedlings and stump sprouts, some 2-3" DBH. Very heavy browse on red maple and other seedlings. Some pockets of dense aspen regeneration in canopy gaps. Some oak mortality. A couple pockets with dense conifer understory in northwest corner. Military lease land. Private property boundary along north edge is fenced and posted.  Steve Griffith 11/30/22-This stand has a history of prescribed burning. On FTP W62-455 of 1962 it was part of burn unit 3 and 4. I think that it the WP 9.9" dbh and smaller were removed from this stand, with possible few additional trees, it would be burnable. Discuss with FRD! The center third of this stand just has shrubs and saplings for woody veg. Also found throughout the stand little bluestem, blueberry, sweetfern, Juneberry, witch hazel, prairie willow, and old plow lines.  Katie Armstrong 2/13/13-Opening that is filling in. More and larger jack
	Canopy Species White Pine Jack Pine Red Maple	% Cover 30 40 10	Size Class Pole/Sapling Pole/Sapling Sapling	<b>DBH</b> 6 6 2	<b>Age</b> 40	T 24.9  Sub-Can  Black Little   Witce  Blueberry/Bil  Swe	40 nopy Species k Cherry Bluestem th Hazel lberry/Cranberry	1-50  Density  Medium  High  Low  Low  Low	N/A  Avg. Height 5 - 10 feet  Unspecified < 5 feet < 5 feet < 5 feet	Size Sapling Non-Wood Tall Shrub Tall Shrub	Compartment 122. Rolling hills, including steep hills, with 200'+ elevation gain. Hills caused some operability issues during sale but crew was able to work around them. Fair to good regeneration but not a lot of oak. Some red maple seedlings and stump sprouts, some 2-3" DBH. Very heavy browse on red maple and other seedlings. Some pockets of dense aspen regeneration in canopy gaps. Some oak mortality. A couple pockets with dense conifer understory in northwest corner. Military lease land. Private property boundary along north edge is fenced and posted.  Steve Griffith 11/30/22-This stand has a history of prescribed burning. On FTP W62-455 of 1962 it was part of burn unit 3 and 4. I think that it the WP 9.9" dbh and smaller were removed from this stand, with possible few additional trees, it would be burnable. Discuss with FRD! The center third of this stand just has shrubs and saplings for woody veg. Also found throughout the stand little bluestem, blueberry, sweetfern, Juneberry, witch hazel, prairie willow, and old plow lines.  Katie Armstrong 2/13/13-Opening that is filling in. More and larger jack pine and white pine than surrounding U-type. Roller chopped in 1983.
	Canopy Species White Pine Jack Pine Red Maple Black Cherry	% Cover 30 40 10 10 10	Size Class Pole/Sapling Pole/Sapling Sapling Sapling Log	DBH 6 6 2 2 14	<b>Age</b> 40	Sub-Can Black Little l Witce Blueberry/Bil Swee Serviceber	40 nopy Species k Cherry Bluestem th Hazel lberry/Cranberry et Fern rry (Juneberry)	1-50  Density  Medium  High  Low  Low	N/A  Avg. Height 5 - 10 feet  Unspecified < 5 feet < 5 feet	Size Sapling Non-Wood Tall Shrub	Compartment 122. Rolling hills, including steep hills, with 200'+ elevation gain. Hills caused some operability issues during sale but crew was able to work around them. Fair to good regeneration but not a lot of oak. Some red maple seedlings and stump sprouts, some 2-3" DBH. Very heavy browse on red maple and other seedlings. Some pockets of dense aspen regeneration in canopy gaps. Some oak mortality. A couple pockets with dense conifer understory in northwest corner. Military lease land. Private property boundary along north edge is fenced and posted.  Steve Griffith 11/30/22-This stand has a history of prescribed burning. On FTP W62-455 of 1962 it was part of burn unit 3 and 4. I think that it the WP 9.9" dbh and smaller were removed from this stand, with possible few additional trees, it would be burnable. Discuss with FRD! The center third of this stand just has shrubs and saplings for woody veg. Also found throughout the stand little bluestem, blueberry, sweetfern, Juneberry, witch hazel, prairie willow, and old plow lines.  Katie Armstrong 2/13/13-Opening that is filling in. More and larger jack pine and white pine than surrounding U-type. Roller chopped in 1983. ORV route runs along eastern edge of stand. Military lease land.
Bla	Canopy Species White Pine Jack Pine Red Maple Black Cherry ack/Red (Hybrid) Oak	% Cover   30   40   10   10   10   10   d Upland D	Size Class Pole/Sapling Pole/Sapling Sapling Sapling Log	DBH 6 6 2 2 14	40	T 24.9  Sub-Can  Blact  Little I  Witc  Blueberry/Bii  Swe  Serviceber  11.0	40 nopy Species k Cherry Bluestem th Hazel lberry/Cranberry et Fern rry (Juneberry)	1-50  Density  Medium  High  Low  Low  Low  Low	N/A  Avg. Height 5 - 10 feet Unspecified < 5 feet < 5 feet < 5 feet 5 - 10 feet	Size Sapling Non-Wood Tall Shrub Tall Shrub Tall Shrub	Compartment 122. Rolling hills, including steep hills, with 200'+ elevation gain. Hills caused some operability issues during sale but crew was able to work around them. Fair to good regeneration but not a lot of oak. Some red maple seedlings and stump sprouts, some 2-3" DBH. Very heavy browse on red maple and other seedlings. Some pockets of dense aspen regeneration in canopy gaps. Some oak mortality. A couple pockets with dense conifer understory in northwest corner. Military lease land. Private property boundary along north edge is fenced and posted.  Steve Griffith 11/30/22-This stand has a history of prescribed burning. On FTP W62-455 of 1962 it was part of burn unit 3 and 4. I think that it the WP 9.9" dbh and smaller were removed from this stand, with possible few additional trees, it would be burnable. Discuss with FRD! The center third of this stand just has shrubs and saplings for woody veg. Also found throughout the stand little bluestem, blueberry, sweetfern, Juneberry, witch hazel, prairie willow, and old plow lines. Katie Armstrong 2/13/13-Opening that is filling in. More and larger jack pine and white pine than surrounding U-type. Roller chopped in 1983. ORV route runs along eastern edge of stand. Military lease land.
Bla	Canopy Species White Pine Jack Pine Red Maple Black Cherry ack/Red (Hybrid) Oak  4199 - Other Mixed Canopy Species Red Maple	% Cover   30   40   10   10   10   10   10   10	Size Class Pole/Sapling Pole/Sapling Sapling Sapling Log	DBH 6 6 2 2 14  wtimb DBH 8	Age 40	Sub-Can Black Little I Witce Blueberry/Bii Swe Serviceber 11.0 Sub-Can	40 nopy Species k Cherry Bluestem th Hazel liberry/Cranberry tet Fern try (Juneberry)	1-50  Density  Medium  High  Low  Low  Low  Low  B1-110	N/A  Avg. Height 5 - 10 feet  Unspecified < 5 feet < 5 feet < 5 feet  N/A  Avg. Height 5 - 10 feet	Size Sapling Non-Wood Tall Shrub Tall Shrub Tall Shrub	Compartment 122. Rolling hills, including steep hills, with 200'+ elevation gain. Hills caused some operability issues during sale but crew was able to work around them. Fair to good regeneration but not a lot of oak. Some red maple seedlings and stump sprouts, some 2-3" DBH. Very heavy browse on red maple and other seedlings. Some pockets of dense aspen regeneration in canopy gaps. Some oak mortality. A couple pockets with dense conifer understory in northwest corner. Military lease land. Private property boundary along north edge is fenced and posted.  Steve Griffith 11/30/22-This stand has a history of prescribed burning. On FTP W62-455 of 1962 it was part of burn unit 3 and 4. I think that it the WP 9.9" dbh and smaller were removed from this stand, with possible few additional trees, it would be burnable. Discuss with FRD! The center third of this stand just has shrubs and saplings for woody veg. Also found throughout the stand little bluestem, blueberry, sweetfern, Juneberry, witch hazel, prairie willow, and old plow lines. Katie Armstrong 2/13/13-Opening that is filling in. More and larger jack pine and white pine than surrounding U-type. Roller chopped in 1983. ORV route runs along eastern edge of stand. Military lease land.  2013 -Variable stand, more aspen at eastern end and western end gradually transitions into U-type. Poor quality oak but significant oak regeneration in some places. Aspen is ready for treatment. Very heavy browse on red maple and other seedlings. OI treatment was delayed for
Bla	Canopy Species  White Pine Jack Pine Red Maple Black Cherry ack/Red (Hybrid) Oak  4199 - Other Mixed Canopy Species	% Cover   30   40   10   10   10   10   d Upland D   % Cover	Size Class Pole/Sapling Pole/Sapling Sapling Sapling Log eciduous Sa	DBH 6 6 2 2 14	Age 40	Sub-Can Black Little   Witc Blueberry/Bii Swe Serviceber  11.0 Sub-Can	40 popy Species k Cherry Bluestem th Hazel liberry/Cranberry tet Fern try (Juneberry) 113 sopy Species	1-50  Density  Medium  High  Low  Low  Low  Low  Density	N/A  Avg. Height 5 - 10 feet Unspecified < 5 feet < 5 feet < 5 feet  N/A  Avg. Height	Size Sapling Non-Wood Tall Shrub Tall Shrub Tall Shrub	Compartment 122. Rolling hills, including steep hills, with 200'+ elevation gain. Hills caused some operability issues during sale but crew was able to work around them. Fair to good regeneration but not a lot of oak. Some red maple seedlings and stump sprouts, some 2-3" DBH. Very heavy browse on red maple and other seedlings. Some pockets of dense aspen regeneration in canopy gaps. Some oak mortality. A couple pockets with dense conifer understory in northwest corner. Military lease land. Private property boundary along north edge is fenced and posted.  Steve Griffith 11/30/22-This stand has a history of prescribed burning. On FTP W62-455 of 1962 it was part of burn unit 3 and 4. I think that it the WP 9.9" dbh and smaller were removed from this stand, with possible few additional trees, it would be burnable. Discuss with FRD! The center third of this stand just has shrubs and saplings for woody veg. Also found throughout the stand little bluestem, blueberry, sweetfern, Juneberry, witch hazel, prairie willow, and old plow lines. Katie Armstrong 2/13/13-Opening that is filling in. More and larger jack pine and white pine than surrounding U-type. Roller chopped in 1983. ORV route runs along eastern edge of stand. Military lease land.  2013 -Variable stand, more aspen at eastern end and western end gradually transitions into U-type. Poor quality oak but significant oak regeneration in some places. Aspen is ready for treatment. Very heavy

DNR

Stand	Level 4 Co	over Type		Size De	nsity	Acres	Stand Age		Managed	Site	General Comments
5	330 - Low-[	Density Tre	ees	Nonsto	cked	428.2		Unspecified	Managed C	pening	11/30/22-I found little bluestem, poverty grass, with scattered single sten
						Sub-Ca	anopy Speci	ies Density	Avg. Height	Size	clumps of bracken throughout this upland brush stand. Multi-stemmed black cherry saplings were also scattered evenly across the stand. Other
						Bla	ck Cherry	Medium	< 5 feet	Sapling	plants observed were some sweetfern, sedge spp., blueberry spp., St.
						Oa	ak (spp.)	Low	>20 feet	Log	John's wort, the occasional black cherry pole, occasional oak spp. poles
						Pin	nes (spp.)	Trace	>20 feet	Log	and logs, and occasional white pine, red pine, and jack pine logs, poles, and some saplings/seedlings. I did see one log sized red maple. The tw
						Pin	nes (spp.)	Trace	5 - 10 feet	Sapling	areas of this stand west of the two track/orv trail were feconed in 2021,
						Blueberry/E	Bilberry/Cran	nberry Low	< 5 feet	Tall Shrub	as well as the portion in the SE corner cut off from the main burn unit by
						Little	e Bluestem	Full	Unspecified	Non-Wood	the two track.
						Sw	veet Fern	Low	< 5 feet	Tall Shrub	
						Bra	icken Fern	Low	Unspecified	Non-Wood	
						5	Sedges	Medium	Unspecified	Non-Wood	
6	4117 - Mixed N.	Hardwood	d - Pine Sa	apling N	/ledium	7.6	31	Immature	N/A		This stand is intended to serve as a firebreak around the planted red pine. It is heavily filling in with aspen, pine, and black cherry. The ORV
C	Canopy Species	% Cover	Size Class	DBH	Age						trail runs through the north and east "arms" of the cross. Military lease
	Red Maple	10	Sapling	2							land.
Q	Quaking Aspen	5	Sapling	2	61						
	White Pine	10	Sapling/Pole	2							
No	orthern Pin Oak	5	Sapling/Pole	4							
	Jack Pine	5	Sapling/Pole	2							
	Red Pine	10	Sapling/Pole	4							
l	Black Cherry	55	Sapling	2	31						
7	4123 -	Red Oak	Sa	awtimbe	er Poor	r 3.1	96	1-50	N/A		2017 - Open grown poor quality oak. Is dead or declining.
C	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	anopy Speci	ies Density	Avg. Height	Size	
	White Pine	10	Pole	9		Re	ed Maple	Low	Variable	Sapling	
	Red Oak	80	Log/Pole	12	96						•
	Red Maple	10	Pole/Log	9							
_		Opeity Tro	988								
8	330 - Low-[	Jensity Tre		Nonsto	cked	55.6	0	Unspecified	Managed C	pening	with scattered single stem clumps of bracken throughout this upland brush stand. Multi-stemmed black cherry saplings were also scattered evenly across the stand. Other plants observed were some sweetfern, sedge spp., blueberry spp., St. John's wort, the occasional black cherry
9	330 - Low-L			Nonsto Nonsto		1.0	0	Unspecified	Managed C	Opening	2022 - Military lease land. 11/30/22-I found little bluestem, poverty gras with scattered single stem clumps of bracken throughout this upland brush stand. Multi-stemmed black cherry saplings were also scattered evenly across the stand. Other plants observed were some sweetfern, sedge spp., blueberry spp., St. John's wort, the occasional black cherry pole, occasional oak spp. poles and logs, and occasional white pine, repine, and jack pine logs, poles, and some saplings/seedlings.  Abandoned well site (plugged 1994) that is filling in with cherry and other
						1.0	0 anopy Speci			Opening Size	2022 - Military lease land. 11/30/22-I found little bluestem, poverty gras with scattered single stem clumps of bracken throughout this upland brush stand. Multi-stemmed black cherry saplings were also scattered evenly across the stand. Other plants observed were some sweetfern, sedge spp., blueberry spp., St. John's wort, the occasional black cherry pole, occasional oak spp. poles and logs, and occasional white pine, repine, and jack pine logs, poles, and some saplings/seedlings.  Abandoned well site (plugged 1994) that is filling in with cherry and other brushy vegetation. Used as landing and bermed at southwest corner.
						1.0 Sub-Ca			No		2022 - Military lease land. 11/30/22-I found little bluestem, poverty gras with scattered single stem clumps of bracken throughout this upland brush stand. Multi-stemmed black cherry saplings were also scattered evenly across the stand. Other plants observed were some sweetfern, sedge spp., blueberry spp., St. John's wort, the occasional black cherry pole, occasional oak spp. poles and logs, and occasional white pine, repine, and jack pine logs, poles, and some saplings/seedlings.  Abandoned well site (plugged 1994) that is filling in with cherry and other



	Traver	se City Mg	ıt. Unit				Re	port 7 – Sta	ands		Compartment: 222 Year of Entry: 2025			
Stand	Level 4 C	over Type		Size De	nsity	Acres	Stand Age	BA Range	Managed S	ite	General Comments			
10	42220 - Nat	tural Jack P	ine S	Sapling N	/ledium	28.6	28	Immature	N/A		2023 - stand is starting to fill in a bit. Stand is starting to convert to pole			
	Canopy Species	% Cover	Size Class	DBH	Age						sized timber. 2013 -Clearcut (except oak) in winter 1995-1996 as part of Yellowtree Jack Pine sale, 61-014-93-01. Most of the clearcut area was			
	Jack Pine	95	Sapling/Pole	4	28						trenched and seeded but this was not. Regeneration was spotty since			
	Black Cherry	5	Sapling/Pole	3							much of the western part of the stand appears rather wet. Military lease land.			
11	4133 - Aspe	en, Mixed P	ine F	Poletimb	er Well	5.3	50	51-80	N/A		2023 - Fairly small diameter aspen with a developing white pine			
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Specie	es Density	Avg. Height	Size	understory. Overstory looks healthy. 2013 - Variable stand. Mostly aspen with some pine at south end and scattered oaks. Military lease			
	Quaking Aspen	60	Pole	7	50		ak (spp.)	Low	10 - 20 feet	Sapling	land.			
	White Pine	30	Log/Pole	12		W	hite Pine	High	Variable	Sapling				
	Red Maple 42110 - Pl	10	Pole/Sapling			Bla	ck Cherry	Low	10 - 20 feet	Sapling				
12		inted Red P	ine F	Poletimb	er Well	75.8	66	171-200	N/A		2023 - BA: 190, 140, 210, 180. Rows are fairly tight. Canopy is closed			
	Canopy Species	% Cover	Size Class	DBH	Age						in. 2013 -Third row thinned as part of Yellow Trees Red Pine sale, 61- 024-05-01, completed July 2009. Included 33' clearcut area along			
	Black Cherry	2	Pole	8							eastern edge of stand to serve as a firebreak. Very few non-pine trees			
	Red Pine	95	Pole/Log	8	66						within rows.			
١	lorthern Pin Oak	3	Log	14										
13	42290 - Nati	ural Mixed I	Pine S	Sawtimb		20.0	111	141-170	N/A		2013 -Variable stand. Probably upland overall but is wetter around the deges especially the western edge and in interior pockets. Canopy is			
	Canopy Species	% Cover	Size Class	DBH	Age		nopy Specie	es Density	Avg. Height	Size	large red and white pine with understory of spruce. Biggest pine is in the			
	White Pine	35	Log/XLog	17			ck Spruce	Medium	Variable	Sapling	southern 2/3 of stand with more jack pine and spruce in canopy at north			
	Red Pine	35	Log/XLog/Pol		111		hite Pine	Trace	Variable	Sapling	end. Western edge of stand seems wetter and is more of a spruce stand.  Evidence of significant deer numbers. Very heavy browse on red maple			
	Black Spruce	15	Pole	8		Re	ed Maple	Low	>20 feet	Pole	seedlings. Evidence of past fire. A few rows of planted red pine at very			
	Jack Pine	10	Pole	8							northern tip of stand.			
	Red Maple	5	Pole/Log	9										
14	310 - Herbac	ceous Open	land	Nonsto	cked	1.3		Unspecified	No		Former well pad (plugged 1971 or 1985). Very open with a few shrubby cherry trees.			
							nopy Specie		Avg. Height	Size				
						Bla	ck Cherry	Low		Sapling				
15	6126 - Lowl			Sapling		4.5	28	Immature	N/A		2013 - Clearcut (except oak) in winter 1995-1996 as part of Yellowtree Jack Pine sale, 61-014-93-01. Then trenched and seeded with jack pine			
	Canopy Species		Size Class		Age						seeds. This part of plantation appears rather wet and regeneration was			
<u> </u>	Jack Pine	100	Sapling	3	28						poor.			
16	42110 - Pla			Poletimb		23.6	66	111-140	N/A		2023- BA: 120, 190, 170, 130. Rows are pretty tight. Canopies haven't			
	Canopy Species		Size Class		Age						quite expanded out yet. 2017 -Purchased from Consumers Power in			
	Red Pine	95	Pole/Log	8	66						1994 but had a private lease until 2011. Row-thinned fall 2017. Did not			

markets/issues with county road commission.

cut ows areas much dead oak as we would have liked because of

Northern Pin Oak

Black Cherry

3

2

13

9

Log

Pole

s

Compartment: 222 Year of Entry: 2025



Stand	Level 4 Co	over Type	S	ize De	ensity	Acres	Stand Age	BA Range	Managed S	Site	General Comments
17	42120 - Plan		ine Size Class	Saplino	g Well I Age	53.4	28	Immature	N/A		2023 - Very dense stocking. Small diameter trees. Looks to be heavily used by deer in the winter. 2013 - Clearcut (except oak) in winter 1995-
	orthern Pin Oak	5 5	Pole/Sapling	5	Age						1996 as part of Yellowtree Jack Pine sale, 61-014-93-01. Then trenched
1401	Jack Pine	95	Sapling	3	28						and seeded with jack pine seeds. OI noted some issues with regeneration due to deer browse and blister rust. Problems appear
	Jack i ilie	93	Заршія	3	20						patchy. A few overstory oaks and some seedling-/sapling-sized spruce. Drainage runs through stand in southwest corner.
18	6120 - Low	vland Ceda	ır Sa	awtimb	er Well	5.8	123	111-140	N/A		2023 - This stand is dominated by cedar and low ground. Scattered large
С	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	nopy Specie	s Density	Avg. Height	Size	red and white pine. Part of Stand 46 that was not treated due to wet ground and/or proximity to Manistee River. Original data (2/4/2013):
	Red Pine	10	Log/Pole	13		WI	nite Pine	Trace	Variable	Sapling	Stand includes upland and lowland areas and is wetter along edges.
ſ	Paper Birch	5	Log/Pole	10				'	1	-	Contains some very large white pine but BA is low overall due to
North	hern White Cedar	50	Log/Pole	10	123						scattered canopy gaps. Heavy white pine understory but mostly suppressed. Some cedar and red pine in the understory is reaching pole
	Red Maple	15	Pole/Log	8							size. Evidence of past fire and high deer activity.
	White Pine	20	XLog/Log	20	123						
19	42110 - Plan	nted Red Pi	ine Po	oletimb	er Well	208.9	61	141-170	N/A		2023 - Some areas have tight row spacing but for the most part the row
С	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	nopy Specie	s Density	Avg. Height	Size	spacing is operable. Canopy is closed together. Some areas of lower stockings. B.A.: 190, 170, 130, 150, 170, 160.2013- Third row thinned
F	Black Cherry	2	Pole/Log	9		WI	nite Pine	Trace	Variable	Sapling	as part of Yellow Trees Red Pine sale, 61-024-05-01, completed July
	Deal Dive	95	Pole/Log	9	61			-	1	'	2009. Moderate slash as you would expect from recent thinning. Road
	Red Pine	95	Fole/Log	-	01						
Noi	orthern Pin Oak	3	Log/Pole	13	01						has been rerouted to basically follow state/private boundary along much
No					01						
20		3	Log/Pole	13	r Medium	11.6	61	81-110	N/A		has been rerouted to basically follow state/private boundary along much of eastern edge of stand. Occasional large oak and pine in the middle of rows.  2023 - jack pine is mature. some white pine and spruce appearing in the
20	orthern Pin Oak	3 ted Mixed F	Log/Pole	13 vtimbe			61		N/A <b>Avg. Height</b>	Size	has been rerouted to basically follow state/private boundary along much of eastern edge of stand. Occasional large oak and pine in the middle of rows.  2023 - jack pine is mature. some white pine and spruce appearing in the understory.
<b>20</b>	orthern Pin Oak 42140 - Plant	3 ted Mixed F	Log/Pole Pine Sav	13 vtimbe	r Medium	Sub-Ca				Size Sapling	has been rerouted to basically follow state/private boundary along much of eastern edge of stand. Occasional large oak and pine in the middle of rows.  2023 - jack pine is mature. some white pine and spruce appearing in the understory.  2013 -Stand appears to be a mixture of semi-open areas (north), planted red pine (central) and jack pine (south). Most, if not all, of the red pine did
20 C	orthern Pin Oak  42140 - Plant  Canopy Species	3 ted Mixed F	Log/Pole Pine Sav	13 vtimbe	r Medium	Sub-Ca	nopy Specie	s Density	Avg. Height		has been rerouted to basically follow state/private boundary along much of eastern edge of stand. Occasional large oak and pine in the middle of rows.  2023 - jack pine is mature. some white pine and spruce appearing in the understory.  2013 -Stand appears to be a mixture of semi-open areas (north), planted red pine (central) and jack pine (south). Most, if not all, of the red pine did not get thinned with the adjacent row thinning because it was poorly
20 C	42140 - Plant Canopy Species White Pine	3 ted Mixed F % Cover	Log/Pole  Pine Sav  Size Class  Log/Pole	vtimber DBH	r Medium	Sub-Ca WI North	nopy Specie	<b>Density</b> Low	Avg. Height Variable	Sapling	has been rerouted to basically follow state/private boundary along much of eastern edge of stand. Occasional large oak and pine in the middle of rows.  2023 - jack pine is mature. some white pine and spruce appearing in the understory.  2013 -Stand appears to be a mixture of semi-open areas (north), planted red pine (central) and jack pine (south). Most, if not all, of the red pine did
20 C	42140 - Plant Canopy Species White Pine Jack Pine Red Pine 6117 - Lowland D	3 ded Mixed F 6 Cover 10 45 45	Log/Pole  Pine Sav  Size Class  Log/Pole  Pole/Log  Log/Pole	13  vtimbe  DBH  12  9  12	r Medium	Sub-Ca WI North	nopy Specie nite Pine ern Pin Oak	Low Trace	Avg. Height Variable 5 - 10 feet	Sapling Sapling	has been rerouted to basically follow state/private boundary along much of eastern edge of stand. Occasional large oak and pine in the middle of rows.  2023 - jack pine is mature. some white pine and spruce appearing in the understory. 2013 -Stand appears to be a mixture of semi-open areas (north), planted red pine (central) and jack pine (south). Most, if not all, of the red pine did not get thinned with the adjacent row thinning because it was poorly stocked in the first place.  Adjacent to Manistee River. Some shrubby, nonforested areas at river's edge. Overhead powerline runs through stand along Yellowtrees Road.
20 C	42140 - Plant Canopy Species White Pine Jack Pine Red Pine 6117 - Lowland D	ded Mixed F  % Cover 10 45 45 Deciduous, ferous	Log/Pole  Pine Sav  Size Class  Log/Pole  Pole/Log  Log/Pole	vtimbe  DBH 12 9 12 etimbe	r Medium	Sub-Ca WI North Bla	nopy Specie nite Pine ern Pin Oak ck Cherry	Low Trace Low 1-50	Avg. Height Variable 5 - 10 feet 5 - 10 feet	Sapling Sapling	has been rerouted to basically follow state/private boundary along much of eastern edge of stand. Occasional large oak and pine in the middle of rows.  2023 - jack pine is mature. some white pine and spruce appearing in the understory. 2013 -Stand appears to be a mixture of semi-open areas (north), planted red pine (central) and jack pine (south). Most, if not all, of the red pine did not get thinned with the adjacent row thinning because it was poorly stocked in the first place.  Adjacent to Manistee River. Some shrubby, nonforested areas at river's edge. Overhead powerline runs through stand along Yellowtrees Road.  Mixture of upland areas, mostly along the road, and lower areas closer to
20 C	42140 - Plant Canopy Species White Pine Jack Pine Red Pine 6117 - Lowland E	ded Mixed F  % Cover 10 45 45 Deciduous, ferous	Log/Pole  Pine Sav  Size Class  Log/Pole  Pole/Log  Log/Pole  Mixed Pole	vtimbe  DBH 12 9 12 etimbe	r Medium	Sub-Ca  Wi  North  Bla  6.1  Sub-Ca	nopy Specie nite Pine ern Pin Oak ck Cherry	Low Trace Low 1-50	Avg. Height Variable 5 - 10 feet 5 - 10 feet N/A	Sapling Sapling Sapling	has been rerouted to basically follow state/private boundary along much of eastern edge of stand. Occasional large oak and pine in the middle of rows.  2023 - jack pine is mature. some white pine and spruce appearing in the understory.  2013 -Stand appears to be a mixture of semi-open areas (north), planted red pine (central) and jack pine (south). Most, if not all, of the red pine did not get thinned with the adjacent row thinning because it was poorly stocked in the first place.  Adjacent to Manistee River. Some shrubby, nonforested areas at river's edge. Overhead powerline runs through stand along Yellowtrees Road.  Mixture of upland areas, mostly along the road, and lower areas closer to the river. Elevation drops off significantly from road. A few large oaks
20 C	A2140 - Plant Canopy Species White Pine Jack Pine Red Pine 6117 - Lowland E Conif	ded Mixed F  Cover  10 45 45  Deciduous, ferous  Cover	Log/Pole  Pine Sav  Size Class  Log/Pole  Pole/Log  Log/Pole  Mixed Pole  Size Class	vtimbe  DBH 12 9 12 etimbe	r Medium	Sub-Ca Windows Black  6.1  Sub-Ca	nopy Specie nite Pine ern Pin Oak ck Cherry 138	Low Trace Low 1-50  Density	Avg. Height Variable 5 - 10 feet 5 - 10 feet N/A Avg. Height	Sapling Sapling Sapling Sapling	has been rerouted to basically follow state/private boundary along much of eastern edge of stand. Occasional large oak and pine in the middle of rows.  2023 - jack pine is mature. some white pine and spruce appearing in the understory.  2013 -Stand appears to be a mixture of semi-open areas (north), planted red pine (central) and jack pine (south). Most, if not all, of the red pine did not get thinned with the adjacent row thinning because it was poorly stocked in the first place.  Adjacent to Manistee River. Some shrubby, nonforested areas at river's edge. Overhead powerline runs through stand along Yellowtrees Road. Mixture of upland areas, mostly along the road, and lower areas closer to the river. Elevation drops off significantly from road. A few large oaks
20 C	A2140 - Plant Canopy Species White Pine Jack Pine Red Pine 6117 - Lowland E Conit	ded Mixed F  Cover  10 45 45  Deciduous, ferous  Cover 30	Log/Pole  Pine Sav  Size Class  Log/Pole  Pole/Log  Log/Pole  Mixed Pole  Size Class  Pole	vtimbe  DBH 12 9 12 etimbe  DBH 6	r Medium 1 Age 61 r Medium 1 Age	Sub-Ca Windows Black  6.1  Sub-Ca	nopy Specie nite Pine ern Pin Oak ck Cherry 138 nopy Specie	Low Trace Low 1-50  Density High	Avg. Height Variable 5 - 10 feet 5 - 10 feet N/A Avg. Height 5 - 10 feet	Sapling Sapling Sapling Size Tall Shrub	has been rerouted to basically follow state/private boundary along much of eastern edge of stand. Occasional large oak and pine in the middle of rows.  2023 - jack pine is mature. some white pine and spruce appearing in the understory.  2013 -Stand appears to be a mixture of semi-open areas (north), planted red pine (central) and jack pine (south). Most, if not all, of the red pine did not get thinned with the adjacent row thinning because it was poorly stocked in the first place.  Adjacent to Manistee River. Some shrubby, nonforested areas at river's edge. Overhead powerline runs through stand along Yellowtrees Road.  Mixture of upland areas, mostly along the road, and lower areas closer to the river. Elevation drops off significantly from road. A few large oaks
20 C	A2140 - Plant Canopy Species White Pine Jack Pine Red Pine 6117 - Lowland E Conit Canopy Species Red Maple White Pine orthern Pin Oak	3  ted Mixed F  **Cover*   10	Log/Pole  Pine Sav  Size Class  Log/Pole  Pole/Log  Log/Pole  Mixed Pole  Size Class  Pole  Log  Log	13 vtimbe  DBH 12 9 12 etimbe  DBH 6 14 12	r Medium 1 Age 61 r Medium 1 Age	Sub-Ca Windows Black  6.1  Sub-Ca	nopy Specie nite Pine ern Pin Oak ck Cherry 138 nopy Specie	Low Trace Low 1-50  Density High	Avg. Height Variable 5 - 10 feet 5 - 10 feet N/A Avg. Height 5 - 10 feet	Sapling Sapling Sapling Size Tall Shrub	has been rerouted to basically follow state/private boundary along much of eastern edge of stand. Occasional large oak and pine in the middle of rows.  2023 - jack pine is mature. some white pine and spruce appearing in the understory. 2013 - Stand appears to be a mixture of semi-open areas (north), planted red pine (central) and jack pine (south). Most, if not all, of the red pine did not get thinned with the adjacent row thinning because it was poorly stocked in the first place.  Adjacent to Manistee River. Some shrubby, nonforested areas at river's edge. Overhead powerline runs through stand along Yellowtrees Road. Mixture of upland areas, mostly along the road, and lower areas closer to the river. Elevation drops off significantly from road. A few large oaks along the road.  Adjacent to Manistee River. Wet ground throughout. Some shrubby non-
20 C	A2140 - Plant Canopy Species White Pine Jack Pine Red Pine 6117 - Lowland E Conit Canopy Species Red Maple White Pine orthern Pin Oak	ded Mixed F  Cover  10 45 45  Cociduous, ferous  Cover 30 40 20  wland Pine	Log/Pole  Pine Sav  Size Class  Log/Pole  Pole/Log  Log/Pole  Mixed Pole  Size Class  Pole  Log  Log	13   vtimbe	r Medium I Age 61 r Medium I Age	Sub-Ca Will Norther Black 6.1 Sub-Ca Will 4.8	nopy Specie nite Pine ern Pin Oak ck Cherry 138 nopy Specie ag Alder nite Pine	Low Trace Low 1-50  S Density High Low 81-110	Avg. Height Variable 5 - 10 feet 5 - 10 feet N/A  Avg. Height 5 - 10 feet Variable  N/A	Sapling Sapling Sapling Size Tall Shrub	has been rerouted to basically follow state/private boundary along much of eastern edge of stand. Occasional large oak and pine in the middle of rows.  2023 - jack pine is mature. some white pine and spruce appearing in the understory. 2013 - Stand appears to be a mixture of semi-open areas (north), planted red pine (central) and jack pine (south). Most, if not all, of the red pine did not get thinned with the adjacent row thinning because it was poorly stocked in the first place.  Adjacent to Manistee River. Some shrubby, nonforested areas at river's edge. Overhead powerline runs through stand along Yellowtrees Road. Mixture of upland areas, mostly along the road, and lower areas closer to the river. Elevation drops off significantly from road. A few large oaks along the road.  Adjacent to Manistee River. Wet ground throughout. Some shrubby nonforested areas along the river. Significantly lower than Yellowtrees Road
20 C	A2140 - Plant Canopy Species White Pine Jack Pine Red Pine 6117 - Lowland E Conif Canopy Species Red Maple White Pine orthern Pin Oak	ded Mixed F  Cover  10 45 45  Cociduous, ferous  Cover 30 40 20  wland Pine	Log/Pole  Pine Sav  Size Class  Log/Pole  Pole/Log  Log/Pole  Mixed Pole  Size Class  Pole  Log  Log  Log  Pole  Log  Log  Pole  Log  Log  Pole  Log  Log  Pole  Log  Log  Pole  Log  Log  Pole  Log  Log  Pole  Log  Log  Log  Pole  Pole  Log  Log  Pole  Po	13   vtimbe	r Medium 61 61 r Medium 1 Age 138	Sub-Ca WI North Bla 6.1 Sub-Ca Ta WI 4.8 Sub-Ca	nopy Specie nite Pine ern Pin Oak ck Cherry 138 nopy Specie ag Alder nite Pine	Low Trace Low 1-50  S Density High Low 81-110	Avg. Height Variable 5 - 10 feet 5 - 10 feet N/A  Avg. Height 5 - 10 feet Variable	Sapling Sapling Sapling Size Tall Shruk Sapling	has been rerouted to basically follow state/private boundary along much of eastern edge of stand. Occasional large oak and pine in the middle of rows.  2023 - jack pine is mature. some white pine and spruce appearing in the understory. 2013 - Stand appears to be a mixture of semi-open areas (north), planted red pine (central) and jack pine (south). Most, if not all, of the red pine did not get thinned with the adjacent row thinning because it was poorly stocked in the first place.  Adjacent to Manistee River. Some shrubby, nonforested areas at river's edge. Overhead powerline runs through stand along Yellowtrees Road. Mixture of upland areas, mostly along the road, and lower areas closer to the river. Elevation drops off significantly from road. A few large oaks along the road.  Adjacent to Manistee River. Wet ground throughout. Some shrubby nonforested areas along the river. Significantly lower than Yellowtrees Road and adjacent stand. Evidence of high deer numbers. Numerous
20 C	A2140 - Plant Canopy Species White Pine Jack Pine Red Pine 6117 - Lowland I Conif Canopy Species Red Maple White Pine orthern Pin Oak 6127 - Low Canopy Species	3  ded Mixed F  **Cover*  10 45 45 45  Deciduous, ferous  **Cover*  40 20  wland Pine  **Cover*	Log/Pole  Pine Sav  Size Class  Log/Pole  Pole/Log  Log/Pole  Mixed Pole  Size Class  Pole  Log  Log  Size Class	vtimbe  DBH  12  9  12  etimbe  DBH  6  14  12  bletimb	r Medium 61 61 r Medium 1 Age 138	Sub-Ca WI North Bla 6.1 Sub-Ca Ta WI 4.8 Sub-Ca	nopy Specie ern Pin Oak ck Cherry  138  nopy Specie ag Alder nite Pine  138  nopy Specie	Low Trace Low 1-50  S Density High Low 81-110 S Density	Avg. Height Variable 5 - 10 feet 5 - 10 feet N/A  Avg. Height 5 - 10 feet Variable  N/A  Avg. Height	Sapling Sapling Sapling Size Tall Shruk Sapling	has been rerouted to basically follow state/private boundary along much of eastern edge of stand. Occasional large oak and pine in the middle of rows.  2023 - jack pine is mature. some white pine and spruce appearing in the understory. 2013 - Stand appears to be a mixture of semi-open areas (north), planted red pine (central) and jack pine (south). Most, if not all, of the red pine did not get thinned with the adjacent row thinning because it was poorly stocked in the first place.  Adjacent to Manistee River. Some shrubby, nonforested areas at river's edge. Overhead powerline runs through stand along Yellowtrees Road. Mixture of upland areas, mostly along the road, and lower areas closer to the river. Elevation drops off significantly from road. A few large oaks along the road.  Adjacent to Manistee River. Wet ground throughout. Some shrubby nonforested areas along the river. Significantly lower than Yellowtrees Road
20 C	A2140 - Plant Canopy Species White Pine Jack Pine Red Pine 6117 - Lowland E Conit Canopy Species Red Maple White Pine orthern Pin Oak  Canopy Species Black Ash	ded Mixed F  Cover  10 45 45  Deciduous, ferous  Cover 30 40 20  wland Pine  Cover 7	Log/Pole  Pine Sav  Size Class  Log/Pole  Pole/Log  Log/Pole  Mixed Pole  Size Class  Pole  Log  Log  Pole  Size Class  Pole  Pole  Size Class  Pole  Size Class	13   vtimbe	r Medium 61 61 r Medium 1 Age 138	Sub-Ca WI North Bla 6.1 Sub-Ca Ta WI 4.8 Sub-Ca	nopy Specie ern Pin Oak ck Cherry  138  nopy Specie ag Alder nite Pine  138  nopy Specie	Low Trace Low 1-50  S Density High Low 81-110 S Density	Avg. Height Variable 5 - 10 feet 5 - 10 feet N/A  Avg. Height 5 - 10 feet Variable  N/A  Avg. Height	Sapling Sapling Sapling Size Tall Shruk Sapling	has been rerouted to basically follow state/private boundary along much of eastern edge of stand. Occasional large oak and pine in the middle of rows.  2023 - jack pine is mature. some white pine and spruce appearing in the understory. 2013 - Stand appears to be a mixture of semi-open areas (north), planted red pine (central) and jack pine (south). Most, if not all, of the red pine did not get thinned with the adjacent row thinning because it was poorly stocked in the first place.  Adjacent to Manistee River. Some shrubby, nonforested areas at river's edge. Overhead powerline runs through stand along Yellowtrees Road. Mixture of upland areas, mostly along the road, and lower areas closer to the river. Elevation drops off significantly from road. A few large oaks along the road.  Adjacent to Manistee River. Wet ground throughout. Some shrubby nonforested areas along the river. Significantly lower than Yellowtrees Road and adjacent stand. Evidence of high deer numbers. Numerous
20 C	A2140 - Plant Canopy Species White Pine Jack Pine Red Pine 6117 - Lowland E Conit Canopy Species Red Maple White Pine orthern Pin Oak 6127 - Lov Canopy Species Black Ash Red Maple	3  ted Mixed F  **Cover*   10	Log/Pole  Pine Sav  Size Class  Log/Pole  Pole/Log  Log/Pole  Mixed Pole  Size Class  Pole  Log  Log  Pole  Size Class  Pole  Pole  Pole  Size Class  Pole  Pole  Pole  Pole  Pole  Pole  Pole  Pole  Pole	13   vtimber	r Medium I Age 61 r Medium I Age 138 per Well I Age	Sub-Ca WI North Bla 6.1 Sub-Ca Ta WI 4.8 Sub-Ca	nopy Specie ern Pin Oak ck Cherry  138  nopy Specie ag Alder nite Pine  138  nopy Specie	Low Trace Low 1-50  S Density High Low 81-110 S Density	Avg. Height Variable 5 - 10 feet 5 - 10 feet N/A  Avg. Height 5 - 10 feet Variable  N/A  Avg. Height	Sapling Sapling Sapling Size Tall Shruk Sapling	has been rerouted to basically follow state/private boundary along much of eastern edge of stand. Occasional large oak and pine in the middle of rows.  2023 - jack pine is mature. some white pine and spruce appearing in the understory. 2013 - Stand appears to be a mixture of semi-open areas (north), planted red pine (central) and jack pine (south). Most, if not all, of the red pine did not get thinned with the adjacent row thinning because it was poorly stocked in the first place.  Adjacent to Manistee River. Some shrubby, nonforested areas at river's edge. Overhead powerline runs through stand along Yellowtrees Road. Mixture of upland areas, mostly along the road, and lower areas closer to the river. Elevation drops off significantly from road. A few large oaks along the road.  Adjacent to Manistee River. Wet ground throughout. Some shrubby nonforested areas along the river. Significantly lower than Yellowtrees Road and adjacent stand. Evidence of high deer numbers. Numerous

**POLEYN** 

Traverse City Mgt. Unit



Stand	Level 4 C	over Type	\$	Size De	nsity	Acres	Stand Age	BA Range	Managed S	iite	General Comments
23	500 -	- Water		Nonsto	cked	1.7	ţ	Jnspecified	No		Manistee River.
24	6127 - Lo	wland Pine	S	awtimb	er Well	4.5	98	111-140	N/A		2013 - Topo shows this as a wet stand but it is relatively dry compared to
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	surrounding areas. Has some wet pockets, though, and access would be difficult. Good quality, tall red and white pine with scattered canopy gaps.
	Red Pine	20	Log/XLog	16		Re	ed Maple	Medium	Variable	Sapling	Good development of understory. Some spruce is pole-sized. Very heavy
No	rthern White Cedar	5	Pole/Log	9		Pap	per Birch	Low	>20 feet	Sapling	browse on red maple seedlings, less than 3' tall.
	Black Spruce	15	Pole/Sap/Log	8		Blac	ck Spruce	Medium	Variable	Sapling	
	White Pine	60	XLog/Log	18	98	Northern	Nhite Cedar	Low	>20 feet	Sapling	
25	42120 - Plar		ine Size Class	Sapling	Well <b>Age</b>	9.7	28	Immature	N/A		2023 - Very dense stocking. Used heavily by deer in the winter. 2013 - Clearcut (except oak) in winter 1995-1996 as part of Yellowtree Jack Pine
	Jack Pine	100	Sapling	3	28						sale, 61-014-93-01. Then trenched and seeded with jack pine seeds. Excellent regeneration. OI noted regeneration setbacks from deer browse and blister rust.
26	330 - Low-I	Density Tre	es	Nonsto	cked	10.9			No		Former opening mostly filling in with cherry sprouts and few scattered log- and pole-sized white pine and oaks. Was disked, fertilized and
							nopy Species	Density	Avg. Height	Size	planted with rye in 1974.
							ick Pine	Trace		Sapling	
							ck Cherry	High		Sapling	
							ak (spp.)	Low		Pole	
						Wh	nite Pine	Low		Pole	
27	6122 - BI	ack Spruce	Р	oletimb	er Well	40.2	103	81-110	N/A		2023- some scattered pin oak. Pockets of cedar and hemlock in the
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	south end. Lots of age/size classes. Several wooded drainages throughout.
	Black Spruce	50	Pole/Sap/Log	8	103	Blac	ck Spruce	Medium	Variable	Sapling	
	Red Maple	5	Pole/Log	9		Re	d Maple	Low	Variable	Sapling	2013 -Stand is not overly wet but ground is hummocky so there are wet pockets. Scatternded areas of dense alder in understory. Heavy browse
	Tamarack	5	Pole/Sapling	6							on red maple seedlings in understory. Was historically Limiting factored
	White Pine	20	Log/XLog	14							from harvest for deer yard.
	Red Pine	5	Log/XLog	14							
	Jack Pine	5	Pole	6							
N.L.	rthern White Cedar	5	Log/Pole	10							
INO											
NO	Hemlock	3	Log/Pole	12							



Stand	l Level 4 C	over Type	5	Size De	nsity	Acres	Stand Age B	BA Range	Managed S	Site	General Comments
28	6127 - Lo	owland Pine	e S	awtimb	er Well	2.1	103	51-80	N/A		2013 - Variable stand on hummocky, wet ground. Includes some dry
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	areas. Significant deer browse on red maple seedlings.
	Red Pine	25	Log/XLog	14		O	ak (spp.)	Low	5 - 10 feet	Sapling	
	Quaking Aspen	10	Sapling/Pole	4		Re	d Maple	High	Variable	Sapling	
	Tamarack	5	Pole	8		Wh	te Spruce	Low	5 - 10 feet	Sapling	
	White Spruce	20	Pole	6							
No	rthern White Cedar	5	Pole/Log	8							
	White Pine	25	Log/XLog	16	103						
	Red Maple	10	Pole/Sapling	6							
29	6120 - Lo	wland Ceda	ar P	oletimb	er Well	5.0	138	81-110	N/A		Low stand near Manistee River. Evidence of significant deer population.
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	Lots of coarse woody debris. Cedar is denser in middle of stand with scattered white pine and other species along the edges.
No	rthern White Cedar	50	Pole	6	138	Ta	ag Alder	High	5 - 10 feet	Tall Shrub	
	Paper Birch	5	Pole/Log	8		Wh	te Spruce	Low	10 - 20 feet	Sapling	
	White Pine	10	Log/XLog	14		Ta	marack	Low	10 - 20 feet	Sapling	
	Balsam Fir	10	Pole	6							
	White Spruce	15	Pole	6							
	Red Maple	10	Pole/Log	8							
30	42290 - Nati	ural Mixed F	Pine P	oletimb	er Poor	4.2	47	1-50	N/A		2023 - Lots of age and size classes. Sapling are filling in the canopy
	Canopy Species	% Cover	Size Class	DBH	l Age						gaps. 2013 -Stand is an opening that is filling in. Evidence of fire.
	White Spruce	5	Sapling/Pole	4							
	White Pine	20	Pole/Sap/Log	8							
	Red Pine	15	Pole/Sap/Log	8							
	Jack Pine	50	Pole/Sap/Log		47						
	Black Cherry	10	Sapling	2							
31	42100 - Plar	nted White I	Pine P	oletimb	er Well	9.6	56	81-110	N/A		2023 - Some large Super canopy red and white pine present. Healthy
	Canopy Species	% Cover	Size Class	DBH	l Age						stand, heavily used by deer. 2013 -The northern part of the stand appears to be white pine planted in
	Black Cherry	2	Sapling	4							1967. It was part of a larger stand, the rest of which has since been
	Red Pine	12	Pole/Sap/Log	8							harvested and converted to jack pine. The white pine is poor quality and
	Jack Pine	21	Pole/Log	8							form limby and many trees with multiple leaders. The southern third of the stand is natural jack pine of merchantable size. Evidence of past fire.
	White Pine	65	Pole/Log/Sap	8	56						the stand is natural jack pine of more namable size. Evidence of past inc.
32	42110 - Pla	nted Red P	Pine P	oletimb	er Well	6.8	61	111-140	N/A		2023 - Canopies are still growing into the cut gap. BA: 130, 160, 150.
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	2017 - Similar to stand to north but was under private lease until 2011.

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Stand	Level 4 Co	over Type	,	Size De	nsity	Acres	Stand Age	BA Range	Managed S	ite	General Comments
33	4112 - Maple, Beecl					1.6	93	1-50	N/A		2013 -Contains Yellowtrees Access Site on the Manistee River, vehicle turnaround and limited parking. Very open canopy with a few large trees
	Canopy Species		Size Class		Age		anopy Species		Avg. Height	Size	and shrubby understory. North boundary is against private property but is
	Red Maple	60	Pole/Log	8	93		ak (spp.)	Low	5 - 10 feet	Sapling	not marked.
	Red Oak	20	Pole/Log	8			ed Maple	Low	5 - 10 feet	Sapling	
	Black Cherry	20	Pole/Sapling	6		Bla	ick Cherry	Low	5 - 10 feet	Sapling	
34	4191 - Mixed Upla Co	ınd Decidu nifer	ous with Sa	wtimber	Mediur	n 1.9	77	1-50	N/A		2013 -Adjacent to Manistee River, wet on eastern end. Stand used to have some aspen and red pine but almost all has died. Was part of
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	anopy Species	s Density	Avg. Height	Size	private lease until 2011 and has remnants of an old camp: overhead electric lines, well, wire gate and old furniture.
	Red Oak	10	Log	14		W	hite Pine	Low	10 - 20 feet	Sapling	clothe inics, with gate and old furniture.
	Red Maple	50	Log/Pole	10	77	0:	ak (spp.)	Low	Variable	Sapling	
	Paper Birch	5	Pole	8							•
No	rthern White Cedar	5	Pole/Log	6							
35	6127 - Lo	wland Pine	e Sa	wtimber	Mediu	n 12.4	108	1-50	N/A		2023 - Black spruce is regenerating at the south end of the stand. Lost
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	anopy Species	s Density	Avg. Height	Size	some overstory trees to the wind. 2017 -Slightly more upland than stand to south but still fairly wet. Canopy of large white and red pine with
	White Pine	60	Log/XLog	14	108	Ja	ack Pine	Low	< 5 feet	Sapling	understory of spruce and smaller white pine. Most of stand was part of
	Red Pine	35	Log/Pole/XLog	g 12		Re	ed Maple	Low	5 - 10 feet	Sapling	private lease until 2011. Contains grassy/shrubby opening and deciduous
No	rthern White Cedar	5	Pole/Log	8		Bla	ck Spruce	Low	< 5 feet	Sapling	upland too small to map in northeast corner. Cut fall 2017. Removed all
						R	Red Pine	Trace	< 5 feet	Sapling	JP, all BS and marked red pine and white pine.
						W	hite Pine	Low	Variable	Sapling	
36	622 - Low	land Shrub	)	Nonsto	cked	3.2		Unspecified	No	1	2013 -Low area in bend of the Manistee River. Mostly dense tag alder
						Sub-Ca	anopy Species	s Density	Avg. Height	Size	with a couple pockets of trees cedar, paper birch and a few large white pine.
						W	hite Pine	Low		Log	pino.
						Pa	per Birch	Trace		Pole	
						T	ag Alder	Full		Tall Shrub	
						Norther	n White Cedar	r Low		Pole	
37	42120 - Plan			Sapling	1	13.4	28	Immature	N/A		2023- very dense stand, east edge is on some lower ground.2013 - Clearcut (except oak) in winter 1995-1996 as part of Yellowtree Jack Pine
	Canopy Species		Size Class		Age						sale, 61-014-93-01. Then trenched and seeded with jack pine seeds.
	Black Cherry	3	Sapling	2	20						Excellent regeneration. OI noted regeneration setbacks from deer browse and blister rust.
	Jack Pine	95	Sapling	3	28						and photol 140th
	White Pine	2	Sapling	2							
38	6120 - Lov					m 50.6	122	51-80	N/A		2013 -Stand is a combination of dense cedar pockets with other areas of more open canopy and dense tag alder and blackberry. Black Creek runs
	Canopy Species		Size Class		Age		anopy Species		Avg. Height	Size	along eastern edge. Part of south end of stand was harvested (all
	Red Maple	8	Pole	6		T	ag Alder	Medium	5 - 10 feet	Tall Shrub	species greater than 1") for emergency deer feeding in 1982. Lots of deer
	Quaking Aspen	10	Pole/Log	8							activity.
No	rthern White Cedar	80	Pole/Sap/Log		122						
	Paper Birch	2	Pole	6							

DNR

Stand	Level 4 Co	over Type		Size Density	Acres Sta	nd Age B	A Range	Managed S	Site	General Comments	
39	622 - Low	land Shrub	)	Nonstocked	6.8	Ur	nspecified	No		Low area next to Manistee River. Wet to very wet. Very few trees in	
					Sub-Canopy	y Species	Density	Avg. Height	Size	southern part. Lots of deer activity.	
					Northern Wh	ite Cedar	Low				
					Tag Al	der	Full		Tall Shrub		
					Paper B	Birch	Low		Pole		
40	622 - Low	land Shrub	)	Nonstocked	11.4	Ur	nspecified	No		Very wet perhaps due to beaver activity. Section along north line is upland with some aspen, cedar, and paper birch.	
					Sub-Canopy	y Species	Density	Avg. Height	Size	upiand with some aspen, cedar, and paper birch.	
					Tag Al	der	Full		Tall Shrub		
41	6129 - Mixed Conife	erous Lowla	and Forest F	Poletimber We	l 37.8	123	81-110	N/A		Stand is mixture of small diameter dense swamp conifers. Some wetter	
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Canopy	y Species	Density	Avg. Height	Size	areas have sparse canopies and heavy tag alder. Lots of evidence of deer activity. Much of south part of stand was acquired since last	
	Black Spruce	40	Pole/Sapling		White Sp	oruce	Trace	5 - 10 feet	Sapling	inventory.	
	Paper Birch	2	Pole/Log	8	Tag Al	der	Medium	5 - 10 feet	Tall Shrub		
	Jack Pine	5	Pole	7	White F	Pine	Low	Variable	Sapling		
	White Pine	15	Pole/Log	8	Black Sp	oruce	Medium	Variable	Pole		
	Tamarack	10	Pole	6							
Nor	thern White Cedar	8	Log/Pole	10							
	Red Maple	15	Pole	6							
	Red Pine	5	Log	14							
42	6128 - Lowland ( Deci	Coniferous, duous	Mixed F	Poletimber Poo	r 61.1	93	1-50	N/A		2013 - Very wet stand. Northern and western parts are mostly tag alder with very sparse tree canopy cover. More cedar in eastern part of stand Very few supercanopy white pine. Ash shows damage and mortality due	
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Canopy	y Species	Density	Avg. Height	Size	to EAB. Records of cutting for emergency deer feeding in 1982.	
	Black Spruce	25	Pole/Sapling	5	Tag Al	der	Full	10 - 20 feet	Tall Shrub	a	
	Paper Birch	10	Pole/Sapling	5							
Nor	thern White Cedar	40	Pole/Log	8 93							
43	500 -	Water		Nonstocked	6.9	Ur	nspecified	No		Manistee River.	
	4133 - Aspe	n, Mixed P	ine Po	letimber Mediu	ım 17.6	45	1-50	N/A		2023 - white pine is seeding in a few areas. Quaking aspen at the north	
44	Canopy Species	% Cover	Size Class	DBH Age	Sub-Canopy	y Species	Density	Avg. Height	Size	end, bigtooth to the south. Aspen is healthy. 2013 - Variable, two- aged stand. Was typed as U0 in OI but has large white and red pine in	
44		30	Pole/Sap/Log	8 45	Red Ma	aple	Medium	Variable	Sapling	super-canopy with multiple pockets of merchantable aspen. Younger	
	Quaking Aspen			8	White F	Pine	Low	Variable	Sapling	aspen is also filling in other canopy gaps. Lots of red maple seedlings be heavily browsed. Stand has rolling topography, dropping off sharply to	
	• • • •	5	Pole/Log	0			N A a alicensa	10 - 20 feet	Conling	i neavily prowsed. Stand has rolling topography, gropping oil Sharply to	
	Quaking Aspen		Pole/Log Log/XLog	14	Quaking A	Aspen	Medium	10 - 20 leet	Sapling		
	Quaking Aspen lorthern Pin Oak	5	Log/XLog Pole	14	Quaking A Black Ch		Low	5 - 10 feet	Sapling	wet areas on all sides. Road to access stand follows a narrow ridge. Network of roads on west side to access private properties to west. We	
N	Quaking Aspen lorthern Pin Oak Red Pine	5 10	Log/XLog	14							



Stand	d Level 4 Co	over Type	;	Size De	nsity	Acres	Stand Age B	A Range	Managed S	ite	General Comments
45	6122 - Bla	ack Spruce	e S	Sapling M	ledium	4.8	63	1-50	N/A		Wet with sparse canopy.
	Canopy Species	% Cover	Size Class	DBH	Age						
	Jack Pine	20	Sapling/Pole	4							
	Black Spruce	60	Sapling/Pole	4	63						
	White Pine	5	Pole/Log	9							
	Tamarack	15	Sapling/Pole	3							
46	42200 - Natu	ıral White F	Pine Sa	wtimber	Medium	19.0	123	1-50	N/A		2023 - stand is responding well to the harvest, quite a bit of white pine
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	regeneration and traces of spruce. Healthy looking overstory. A few Scattered oak trees. 2017 -Treated fall 2017. Removed marked maple
No	orthern White Cedar	8	Log/Pole	10		Northerr	White Cedar	Low	>20 feet	Sapling	and pine to shelterwood density. Tried to leave enough trees to minimize
	White Pine	65	XLog/Log	18	123	Wł	nite Pine	Medium	Variable	Sapling	blowdown.
	Red Pine	20	Log	14		Re	d Maple	Medium	5 - 10 feet	Pole	Original notes: Stand includes upland and lowland areas and is wetter along edges. Contains some very large white pine but BA is low overall
	Paper Birch	2	Pole/Log	8		Blac	ck Spruce	Trace	5 - 10 feet	Sapling	due to scattered canopy gaps. Heavy white pine understory but mostly
	Red Maple	5	Pole/Log	9							suppressed. Some cedar and red pine in the understory is reaching pole
											size. Spruce understory is heavy in southwest corner of stand. Some large blowdown trees along edge so coarse woody debris is high. Evidence of past fire and high deer activity.
47	330 - Low-E	Density Tre	es	Nonsto	cked	10.1	ı	mmature	No		2023 - A few drainages with strings of cedar. River access site present.
						Sub-Ca	nopy Species	Density	Avg. Height	Size	2013 - Mostly upland but there are some wet spots and drainages.
						Quak	king Aspen	Low		Pole	Scattered trees including some shrubby cherry, a few L/XL white pines,
							rite Pine	Low		Pole Log	Scattered trees including some shrubby cherry, a few L/XL white pines, and at least one aspen clone. Some debris from adjacent camp in
						Wh					Scattered trees including some shrubby cherry, a few L/XL white pines, and at least one aspen clone. Some debris from adjacent camp in northwest corner. Part is adjacent to Manistee River. Private property to
						Wh	nite Pine	Low		Log	Scattered trees including some shrubby cherry, a few L/XL white pines, and at least one aspen clone. Some debris from adjacent camp in
48	629 - Mixed non	n-forested w	vetland	Nonsto	cked	Wh	nite Pine	Low	No	Log	Scattered trees including some shrubby cherry, a few L/XL white pines, and at least one aspen clone. Some debris from adjacent camp in northwest corner. Part is adjacent to Manistee River. Private property to east (gap in state ownership) is protected by GTRLC conservation easement.  Low area adjacent to Manistee River. Contains scattered cedar and white
48	629 - Mixed non	n-forested w	vetland	Nonsto	cked	Wh Blace 26.0	nite Pine	Low	No Avg. Height	Log	Scattered trees including some shrubby cherry, a few L/XL white pines, and at least one aspen clone. Some debris from adjacent camp in northwest corner. Part is adjacent to Manistee River. Private property to east (gap in state ownership) is protected by GTRLC conservation
48	629 - Mixed non	n-forested w	vetland	Nonsto	cked	26.0	nite Pine ck Cherry	Low		Log Sapling	Scattered trees including some shrubby cherry, a few L/XL white pines, and at least one aspen clone. Some debris from adjacent camp in northwest corner. Part is adjacent to Manistee River. Private property to east (gap in state ownership) is protected by GTRLC conservation easement.  Low area adjacent to Manistee River. Contains scattered cedar and white
48	629 - Mixed non	n-forested w	vetland	Nonsto	cked	26.0  Sub-Ca	nite Pine ck Cherry nopy Species	Low Medium	Avg. Height	Log Sapling	Scattered trees including some shrubby cherry, a few L/XL white pines, and at least one aspen clone. Some debris from adjacent camp in northwest corner. Part is adjacent to Manistee River. Private property to east (gap in state ownership) is protected by GTRLC conservation easement.  Low area adjacent to Manistee River. Contains scattered cedar and white
48	629 - Mixed non	n-forested w	vetland	Nonsto	cked	26.0  Sub-Ca Pal	nite Pine ck Cherry nopy Species per Birch	Low Medium  Density Low	Avg. Height >20 feet	Log Sapling	Scattered trees including some shrubby cherry, a few L/XL white pines, and at least one aspen clone. Some debris from adjacent camp in northwest corner. Part is adjacent to Manistee River. Private property to east (gap in state ownership) is protected by GTRLC conservation easement.  Low area adjacent to Manistee River. Contains scattered cedar and white
48	629 - Mixed non			Nonsto		26.0  Sub-Ca Pal	nite Pine ck Cherry  nopy Species per Birch nite Pine	Low Medium  Density Low Low	Avg. Height >20 feet	Size Pole Log	Scattered trees including some shrubby cherry, a few L/XL white pines, and at least one aspen clone. Some debris from adjacent camp in northwest corner. Part is adjacent to Manistee River. Private property to east (gap in state ownership) is protected by GTRLC conservation easement.  Low area adjacent to Manistee River. Contains scattered cedar and white pine.  2023 - stand is filling in with red maple and white pine. 2013 - Stand is
		d Upland D			ledium	26.0  Sub-Ca Pal White Northern	nopy Species per Birch nite Pine n White Cedar	Low Medium  Density Low Low Low	Avg. Height >20 feet >20 feet	Size Pole Log	Scattered trees including some shrubby cherry, a few L/XL white pines, and at least one aspen clone. Some debris from adjacent camp in northwest corner. Part is adjacent to Manistee River. Private property to east (gap in state ownership) is protected by GTRLC conservation easement.  Low area adjacent to Manistee River. Contains scattered cedar and white pine.  2023 - stand is filling in with red maple and white pine. 2013 - Stand is isolated upland surrounded by wetter stands. Sparse canopy with poor
	4199 - Other Mixed	d Upland D	Deciduous S	Sapling M	ledium	26.0  Sub-Ca Pal With Northerr  1.4  Sub-Ca	nite Pine ck Cherry  nopy Species per Birch nite Pine n White Cedar	Low Medium  Density Low Low Low 1-50	Avg. Height >20 feet >20 feet N/A	Size Pole Log Pole	Scattered trees including some shrubby cherry, a few L/XL white pines, and at least one aspen clone. Some debris from adjacent camp in northwest corner. Part is adjacent to Manistee River. Private property to east (gap in state ownership) is protected by GTRLC conservation easement.  Low area adjacent to Manistee River. Contains scattered cedar and white pine.  2023 - stand is filling in with red maple and white pine. 2013 - Stand is
	4199 - Other Mixed	d Upland D <b>% Cove</b> r	eciduous S Size Class	Sapling M	ledium Age	26.0  Sub-Ca Pal Wh Northerr  1.4  Sub-Ca Wh	nopy Species per Birch nite Pine White Cedar 47 nopy Species	Density Low Low Low Low Density	Avg. Height >20 feet >20 feet N/A Avg. Height	Size Pole Log Pole	Scattered trees including some shrubby cherry, a few L/XL white pines, and at least one aspen clone. Some debris from adjacent camp in northwest corner. Part is adjacent to Manistee River. Private property to east (gap in state ownership) is protected by GTRLC conservation easement.  Low area adjacent to Manistee River. Contains scattered cedar and white pine.  2023 - stand is filling in with red maple and white pine. 2013 - Stand is isolated upland surrounded by wetter stands. Sparse canopy with poor
	4199 - Other Mixed Canopy Species Red Maple	d Upland D <b>% Cover</b> 45	Deciduous S Size Class Sapling/Pole	Sapling M  DBH  4	ledium Age	26.0  Sub-Ca Pal Wh Northerr  1.4  Sub-Ca Wh	nopy Species per Birch nite Pine n White Cedar 47 nopy Species nite Pine	Low Medium  Density Low Low Low Density Low Low Low	Avg. Height >20 feet >20 feet N/A Avg. Height 5 - 10 feet	Size Pole Log Pole Size Sapling	Scattered trees including some shrubby cherry, a few L/XL white pines, and at least one aspen clone. Some debris from adjacent camp in northwest corner. Part is adjacent to Manistee River. Private property to east (gap in state ownership) is protected by GTRLC conservation easement.  Low area adjacent to Manistee River. Contains scattered cedar and white pine.  2023 - stand is filling in with red maple and white pine. 2013 - Stand is isolated upland surrounded by wetter stands. Sparse canopy with poor
	4199 - Other Mixed  Canopy Species  Red Maple  Paper Birch	d Upland D  **Cover  45  5	eciduous S Size Class Sapling/Pole Pole	Sapling M  DBH  4  6  6	ledium Age	26.0  Sub-Ca Pal Wh Northerr  1.4  Sub-Ca Wh	nopy Species per Birch nite Pine n White Cedar 47 nopy Species nite Pine	Low Medium  Density Low Low Low Density Low Low Low	Avg. Height >20 feet >20 feet N/A Avg. Height 5 - 10 feet	Size Pole Log Pole Size Sapling	Scattered trees including some shrubby cherry, a few L/XL white pines, and at least one aspen clone. Some debris from adjacent camp in northwest corner. Part is adjacent to Manistee River. Private property to east (gap in state ownership) is protected by GTRLC conservation easement.  Low area adjacent to Manistee River. Contains scattered cedar and white pine.  2023 - stand is filling in with red maple and white pine. 2013 - Stand is isolated upland surrounded by wetter stands. Sparse canopy with poor
	4199 - Other Mixed Canopy Species Red Maple Paper Birch Bigtooth Aspen	d Upland D  **Cover  45  5  10	Peciduous S Size Class Sapling/Pole Pole Pole/Sapling	Capling N  DBH  4  6  6  4	ledium Age	26.0  Sub-Ca Pal Wh Northerr  1.4  Sub-Ca Wh	nopy Species per Birch nite Pine n White Cedar 47 nopy Species nite Pine	Low Medium  Density Low Low Low Density Low Low Low	Avg. Height >20 feet >20 feet N/A Avg. Height 5 - 10 feet	Size Pole Log Pole Size Sapling	Scattered trees including some shrubby cherry, a few L/XL white pines, and at least one aspen clone. Some debris from adjacent camp in northwest corner. Part is adjacent to Manistee River. Private property to east (gap in state ownership) is protected by GTRLC conservation easement.  Low area adjacent to Manistee River. Contains scattered cedar and white pine.  2023 - stand is filling in with red maple and white pine. 2013 - Stand is isolated upland surrounded by wetter stands. Sparse canopy with poor



Red M Black	6120 - Lov					Acres Stand Age BA Range Managed Site			anagoa (	one .	
Red M Black		vland Ceda	ır Sa	wtimb	er Well	4.7	97	81-110	N/A		2023 - Nice large diameter and tall cedar. Heavily used by deer. 2013  Stand is adjacent to the Manistee River and mostly wet. Scattered
Black	Species	% Cover	Size Class	DBH	l Age	Sub-Can	opy Species	Density	Avg. Height	Size	canopy gaps with dense tag alder. Some human activity from nearby
	laple	15	Log/Pole	10		Tag	g Alder	Medium	5 - 10 feet	Tall Shrub	camps.
_	Ash	5	Sapling/Pole	4							
Paper I	Birch	5	Pole/Log	8							
Northern Wh	hite Cedar	70	Log/Pole	10	97						
White	Pine	5	Log/XLog	14							
51	6112 - Lov	vland Aspe	n Sa	wtimb	er Well	28.4	57	81-110	N/A		2023 - A couple of wooded drains within the stand. Portions of stand
Canopy	Species	% Cover	Size Class	DBH	l Age	Sub-Can	opy Species	Density	Avg. Height	Size	upland 2017 -Sold as part of Cape Cod Copycat, 61-165-15-01, but never cut.2013 - Stand is a mixture of lowland aspen and areas of pu
Northern Wh	hite Cedar	5	Log/Pole	10		Blackberr	y/Raspberry	Low	< 5 feet	Tall Shrub	
White	Pine	5	Log/XLog	14		Black	Cherry	Medium	5 - 10 feet	Sapling	is starting to decline. Diameters vary from pockets of 10" average to 6
Northern F	Pin Oak	5	Pole/Log	8		Tag	g Alder	Medium	10 - 20 feet	Tall Shrub	average. Trace of paper birch and a few large white pine. Ash has EA Black Creek runs through stand but is not mapped correctly. Some a
Quaking	Aspen	75	Log/Pole	10	57				1		are probably pretty wet based on wetland ferns visible despite the sno
Black C	Cherry	5	Pole/Sapling	7							Evidence of deer and beaver activity. Part of stand was treated in 198
Red M	laple	5	Pole/Log	8							with limited cutting: 15 sf/acre of aspen, paper birch, maple and cedar
							White Cedar	Low	Avg. Height	Size Pole	
						Whi	te Pine	Low	, and general section of the section	Pole Log	2013 - Adjacent to Manistee River. Stream runs through stand. Conta some scattered trees. May have supported road to aspen stand to the west at one time.
<b>53</b> 6128	s - Lowland ( Deci	Coniferous,	Mixed Pole	timbe	r Mediur	Whi Tag			N/A	Pole	2013 - Adjacent to Manistee River. Stream runs through stand. Conta some scattered trees. May have supported road to aspen stand to the west at one time.  2013 - Adjacent to Manistee River. Very wet stand. Overall canopy is more sparse than other stands nearby. Dense tag alder throughout.
		duous	Mixed Pole		r Mediur	Whi Tag m 49.0	te Pine g Alder	Low High		Pole Log	2013 - Adjacent to Manistee River. Stream runs through stand. Conta some scattered trees. May have supported road to aspen stand to the west at one time.  2013 - Adjacent to Manistee River. Very wet stand. Overall canopy is more sparse than other stands nearby. Dense tag alder throughout.  Canopy is variable with some pockets of pure cedar and some with meaning the source of th
	Deci Species	duous				Whi Tag m 49.0 Sub-Can	te Pine g Alder 87	Low High	N/A	Pole Log Tall Shrub	2013 - Adjacent to Manistee River. Stream runs through stand. Conta some scattered trees. May have supported road to aspen stand to the west at one time.  2013 - Adjacent to Manistee River. Very wet stand. Overall canopy is more sparse than other stands nearby. Dense tag alder throughout. Canopy is variable with some pockets of pure cedar and some with m ash. Scattered supercanopy white pine. Ash is infested with EAB but worth harvesting due to wet ground and small diameters. Evidence of
Canopy	Deci Species laple	duous % Cover	Size Class	DBH		Whi Tag m 49.0 Sub-Can Whi	te Pine g Alder 87 opy Species	Low High 51-80 Density	N/A Avg. Height	Pole Log Tall Shrub	2013 - Adjacent to Manistee River. Stream runs through stand. Conta some scattered trees. May have supported road to aspen stand to the west at one time.  2013 - Adjacent to Manistee River. Very wet stand. Overall canopy is more sparse than other stands nearby. Dense tag alder throughout.  Canopy is variable with some pockets of pure cedar and some with mash. Scattered supercanopy white pine. Ash is infested with EAB but worth harvesting due to wet ground and small diameters. Evidence of
<b>Canopy</b> Red M	Deci Species laple hite Cedar	% Cover	Size Class Pole/Log	<b>DB</b> H	I Age	Whi Tag m 49.0  Sub-Can Whi Tag	ste Pine g Alder 87 opy Species te Pine	Low High  51-80  Density Low	N/A  Avg. Height 5 - 10 feet	Pole Log Tall Shrub Size Sapling	2013 - Adjacent to Manistee River. Stream runs through stand. Conta some scattered trees. May have supported road to aspen stand to the west at one time.  2013 - Adjacent to Manistee River. Very wet stand. Overall canopy is more sparse than other stands nearby. Dense tag alder throughout.  Canopy is variable with some pockets of pure cedar and some with m ash. Scattered supercanopy white pine. Ash is infested with EAB but worth harvesting due to wet ground and small diameters. Evidence of
Canopy Red M Northern Wh	Deci r Species laple hite Cedar Birch	% Cover 20 40	Size Class Pole/Log Pole/Log	<b>DBH</b> 8 9	I Age	Whi Tag m 49.0  Sub-Can Whi Tag	te Pine g Alder  87  opy Species te Pine g Alder	Low High  51-80  Density Low High	N/A  Avg. Height 5 - 10 feet 10 - 20 feet	Pole Log Tall Shrub Size Sapling Tall Shrub	2013 - Adjacent to Manistee River. Stream runs through stand. Conta some scattered trees. May have supported road to aspen stand to the west at one time.  2013 - Adjacent to Manistee River. Very wet stand. Overall canopy is more sparse than other stands nearby. Dense tag alder throughout. Canopy is variable with some pockets of pure cedar and some with m ash. Scattered supercanopy white pine. Ash is infested with EAB but worth harvesting due to wet ground and small diameters. Evidence of
Canopy Red M Northern Wh Paper I White	Pecies Iaple hite Cedar Birch Pine	## Cover 20 40 10 10 10 10 10 10 10 10 10 10 10 10 10	Size Class Pole/Log Pole/Log Pole Log	<b>DBH</b> 8 9 6 12	I Age	Whi Tag m 49.0  Sub-Can Whi Tag Northern	te Pine g Alder  87  opy Species te Pine g Alder	Low High  51-80  Density Low High	N/A  Avg. Height 5 - 10 feet 10 - 20 feet	Pole Log Tall Shrub Size Sapling Tall Shrub	2013 - Adjacent to Manistee River. Stream runs through stand. Conta some scattered trees. May have supported road to aspen stand to the west at one time.  2013 - Adjacent to Manistee River. Very wet stand. Overall canopy is more sparse than other stands nearby. Dense tag alder throughout. Canopy is variable with some pockets of pure cedar and some with mash. Scattered supercanopy white pine. Ash is infested with EAB but worth harvesting due to wet ground and small diameters. Evidence of high deer numbers.
Canopy Red M Northern Wh Paper I White	Pecies Iaple hite Cedar Birch Pine	## Cover   20   40   10   10   10   wland Aspe	Size Class Pole/Log Pole/Log Pole Log	8   9   6   12	I Age	Whi Tag m 49.0  Sub-Can Whi Tag Northern	ste Pine g Alder  87  opy Species te Pine g Alder White Cedar	Low High  51-80  Density Low High Low	N/A  Avg. Height 5 - 10 feet 10 - 20 feet 10 - 20 feet	Pole Log Tall Shrub Size Sapling Tall Shrub	2013 - Adjacent to Manistee River. Stream runs through stand. Conta some scattered trees. May have supported road to aspen stand to the west at one time.  2013 - Adjacent to Manistee River. Very wet stand. Overall canopy is more sparse than other stands nearby. Dense tag alder throughout. Canopy is variable with some pockets of pure cedar and some with m ash. Scattered supercanopy white pine. Ash is infested with EAB but worth harvesting due to wet ground and small diameters. Evidence of high deer numbers.
Canopy Red M Northern Wh Paper I White	Species laple hite Cedar Birch Pine 6112 - Lov	## Cover   20   40   10   10   10   wland Aspe	Size Class Pole/Log Pole/Log Pole Log	8   9   6   12	87 er Poor	Whi Tag m 49.0  Sub-Can Whi Tag Northern  28.9  Sub-Can	opy Species te Pine g Alder  87  opy Species te Pine g Alder White Cedar	Low High  51-80  Density Low High Low	N/A  Avg. Height 5 - 10 feet 10 - 20 feet 10 - 20 feet	Pole Log Tall Shrub Size Sapling Tall Shrub Sapling	2013 - Adjacent to Manistee River. Stream runs through stand. Conta some scattered trees. May have supported road to aspen stand to the west at one time.  2013 - Adjacent to Manistee River. Very wet stand. Overall canopy is more sparse than other stands nearby. Dense tag alder throughout. Canopy is variable with some pockets of pure cedar and some with mash. Scattered supercanopy white pine. Ash is infested with EAB but worth harvesting due to wet ground and small diameters. Evidence of high deer numbers.
Canopy Red M Northern Wh Paper I White  54 Canopy	Pine 6112 - Low Species hite Cedar	## Cover   20   40   10   10	Size Class  Pole/Log  Pole/Log  Pole  Log   No Pole  Size Class	B	87 er Poor	Whi Tag m 49.0  Sub-Can Whi Tag Northern  28.9  Sub-Can	ste Pine g Alder  87  oppy Species te Pine g Alder White Cedar  35  oppy Species	Low High  51-80  Density Low High Low  1-50  Density	N/A  Avg. Height 5 - 10 feet 10 - 20 feet 10 - 20 feet N/A  Avg. Height	Pole Log Tall Shrub Size Sapling Tall Shrub Sapling	2013 - Adjacent to Manistee River. Stream runs through stand. Conta some scattered trees. May have supported road to aspen stand to the west at one time.  2013 - Adjacent to Manistee River. Very wet stand. Overall canopy is more sparse than other stands nearby. Dense tag alder throughout. Canopy is variable with some pockets of pure cedar and some with mash. Scattered supercanopy white pine. Ash is infested with EAB but worth harvesting due to wet ground and small diameters. Evidence of high deer numbers.
Canopy Red M Northern Wh Paper I White  54 Canopy Northern Wh	Pine 6112 - Low Species hite Cedar rack	## Cover   20   40   10   10	Pole/Log Pole Log  Size Class Pole/Log Pole Pole Pole Pole Pole Pole/Log	DBH	87 er Poor	Whi Tag m 49.0  Sub-Can Whi Tag Northern  28.9  Sub-Can	ste Pine g Alder  87  oppy Species te Pine g Alder White Cedar  35  oppy Species	Low High  51-80  Density Low High Low  1-50  Density	N/A  Avg. Height 5 - 10 feet 10 - 20 feet 10 - 20 feet N/A  Avg. Height	Pole Log Tall Shrub Size Sapling Tall Shrub Sapling	2013 - Adjacent to Manistee River. Stream runs through stand. Conta some scattered trees. May have supported road to aspen stand to the west at one time.  2013 - Adjacent to Manistee River. Very wet stand. Overall canopy is more sparse than other stands nearby. Dense tag alder throughout. Canopy is variable with some pockets of pure cedar and some with mash. Scattered supercanopy white pine. Ash is infested with EAB but worth harvesting due to wet ground and small diameters. Evidence of high deer numbers.  2013 - Stand is a mixture of nonforested lowland shrub (tag alder) and clumps of pole/sapling sized aspen with a few cedar. Very wet. Black Creek runs through stand. Evidence of cutting for emergency deer feeding in mid-1980s. Was typed as L0 in OI but aspen has filled in
Canopy Red M Northern Wh Paper I White  54 Canopy Northern Wh Tamai	Pine 6112 - Lov Species hite Cedar rack Birch	Cover   20   40   10   10       vland Aspe   10   10   10	Pole/Log  Pole Log  Size Class  Pole/Log  Pole  Pole  Pole  Pole  Pole  Pole  Pole  Pole/Log  Pole/Log	B   9   6   12	87 er Poor	Whi Tag m 49.0  Sub-Can Whi Tag Northern  28.9  Sub-Can	ste Pine g Alder  87  oppy Species te Pine g Alder White Cedar  35  oppy Species	Low High  51-80  Density Low High Low  1-50  Density	N/A  Avg. Height 5 - 10 feet 10 - 20 feet 10 - 20 feet N/A  Avg. Height	Pole Log Tall Shrub Size Sapling Tall Shrub Sapling	2013 - Adjacent to Manistee River. Stream runs through stand. Conta some scattered trees. May have supported road to aspen stand to the west at one time.  2013 - Adjacent to Manistee River. Very wet stand. Overall canopy is more sparse than other stands nearby. Dense tag alder throughout. Canopy is variable with some pockets of pure cedar and some with mash. Scattered supercanopy white pine. Ash is infested with EAB but worth harvesting due to wet ground and small diameters. Evidence of high deer numbers.  2013 - Stand is a mixture of nonforested lowland shrub (tag alder) and clumps of pole/sapling sized aspen with a few cedar. Very wet. Black Creek runs through stand. Evidence of cutting for emergency deer feeding in mid-1980s. Was typed as L0 in OI but aspen has filled in



Stand	Level 4 Co	Level 4 Cover Type		Size Density  Nonstocked		Acres	Stand Age	BA Range	Managed Site		General Comments
56	500 - Water					14.8		Unspecified	No		Manistee River.
57	629 - Mixed non	n-forested v	wetland	Nonst	ocked	3.5			No		Low area adjacent to Manistee River. Mostly tag alder with a few
						Sub-Ca	nopy Specie	s Density	Avg. Height	Size	scattered trees.
						Northerr	White Ceda	r Low		Pole	
						Ta	ag Alder	Full		Tall Shruk	
						WI	nite Pine	Low		Log	
	42110 - Plar  Canopy Species  orthern Pin Oak		Pine P Size Class Log/Pole		per Well	29.4	51	111-140	N/A		2023 - BA: 80, 150, 110, 100. Some canopy gaps left from where the oak or jack pine was removed. Rows are fairly tight in spots. 2020 - Stand was row thinned in 2020 most of the jack pine and some of the oawere removed as well. 2017- Deows aread oak. Try to remove. Stand
IN	Red Pine	95	Pole	8	51						is ready for a row thin. Take the jack pine and oak too. Mostly 4-5 stick trees. Some rows are tight. Corners are in.
59	500 -	Water		Nonst	ocked	6.3		Unspecified	No		Manistee River.
60		wland Ceda		Sawtimb	oer Well	5.7	97	81-110	N/A		Relatively narrow band of cedar adjacent to Manistee River. River is a few feet lower than this stand so it seems relatively upland but has wet
	Canopy Species Paper Birch Red Maple thern White Cedar	% Cover 3 2 95	Pole Pole/Sapling Log/Pole	8	97						spots and is likely subject to flooding. Lots of deer and beaver activity. Numerous private cabins on the other side of the river. This land was acquired since the last inventory.
61	42201 - Natural \ Deci	White Pine iduous	, Mixed P	oletimb	oer Poor	2.9	61	1-50	N/A		2023- Some of the pin oak is regenerating. Hopefully it continues to fill in.
	Canopy Species	% Cover	Size Class	DBI	H Age	Sub-Ca	nopy Specie	s Density	Avg. Height	Size	2018 - we removed the dead and dying oak. 'Haunted Oak' 61-103-18-01.
	White Pine	65	Pole/Sapling	7	61	Wh	nite Pine	Medium	Variable	Sapling	2017 - Stand is a mix of pine and oak but most of the oak is dead or
	Red Maple	35	Pole	8		North	ern Pin Oak	Low	< 5 feet	Sapling	dying leaving a mix of white pine saplings and pole timber.
62	4319 - Mixed	Upland Fo	orest S	Sawtimb	per Well	14.3	101	81-110	N/A		2017 - Big pine over pole size maple. Mix of high and low ground. Nice
	Canopy Species	% Cover	Size Class	DBI	H Age	Sub-Ca	nopy Specie	s Density	Avg. Height	Size	quality write pine.
	Red Maple	35	Pole	8		Re	d Maple	Low	Variable	Sapling	
	Red Pine	5	Log/Pole	12		WI	nite Pine	Low	Variable	Sapling	
	Red Oak	10	Log/Pole	12							
	White Pine	50	XLog/Log	18	101						
63	500 -	Water		Nonst	ocked	2.2		Unspecified	No		Manistee river

DNR DNR

Stand	Level 4 C	over Type	:	Size De	nsity	Acres	Stand Age E	BA Range	Managed 9	Site	General Comments
64	4113 - R.M	laple, Conif	er P	Poletimbe	er Poor	16.3	44	1-50	N/A		2023 - The pin oak is regenerating fairly well. Oak regen is patchy but
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	will hopefully continue to fill in. 2019 - Stand had the oak and aspen removed in 2018, 'Haunted Oak' 61-
	White Pine	40	Pole/Sap/Log	g 8		Re	d Maple	Low	Variable	Sapling	103-18-01. I should of had them cut the red maple too, opps. : ( . Now
	Red Maple	60	Pole/Sapling	6	44	Northe	ern Pin Oak	Low	5 - 10 feet	Sapling	the stand is a bunch of scraggly red maple and scattered white and red pine.
65	6120 - Lo	wland Ceda	ır S	Sawtimbe	er Well	14.0	101	81-110	N/A		2017 - Mostly cedar with some scattered white pine and patches of tag
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	alder. Old cabin sitting on south end of the stand along the river?
	White Pine	20	Log	12		Ta	ng Alder	Medium	5 - 10 feet	Tall Shrub	
No	rthern White Cedar	70	Log/Pole	10	101	Wł	nite Pine	Low	Variable	Sapling	
	Red Maple	10	Pole/Log	8					ı		
66	500	- Water		Nonsto	cked	2.3	ι	Jnspecified	No		Manistee River
68	42110 - Pla	nted Red P	ine F	Poletimbe	er Well	82.6	61	141-170	N/A		2023- BA: 170, 180, 130, 170, 150, 200, 140 .Canopy is closed in. Nice
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	quality pine. More advanced regen in the north and west parts of stand. 2013 - Planted in fall of 1962 with 3-0 red pine. Release treatment (non-
١	Northern Pin Oak	2	Log	13		Oa	ık (spp.)	Low	5 - 10 feet	Sapling	commercial hardwood removal) in 1978. Thiarerd row thinned in summer
	Jack Pine	5	Pole/Sapling	7		Re	d Maple	Low	10 - 20 feet	Sapling	2007 as part of 222 Red Pine sale, 61-025-05-01. Decent girth on red
	White Pine	3	Pole/Log	9		Blac	ck Cherry	Trace	5 - 10 feet	Sapling	pine. Scattered cherry and oaks amid the rows. Some scattered large white pine. Stand is divided by firebreak and Riverview Rd. Firebreak is
	Red Pine	90	Pole/Log	9	61	Wh	nite Pine	Trace	5 - 10 feet	Sapling	filling in with woody species, however, so may not be effective as such.
											Private property boundary along north edge is fenced and posted. Military lease land.
70	42110 - Pla	nted Red P	ine	Sapling	Well	16.2	6	Immature	N/A		2023 - Red pine is about 3ft tall. Some cherry competition 8-10 tall.
	Canopy Species	% Cover	Size Class	DBH	Age						2019 - Chopped and trenched in August 2016. ORV route runs on two-
	Black Cherry	10	Sapling	1	-						track along north edge of stand. Military lease land. Planted May 2017. 3-
١	Northern Pin Oak	3	Log	13							year regen check 10/7/2019. 25% mortality, trees are ~12" tall, 82% FTG
	White Pine	2	Pole/Log	9							Average height of competition 5-10'. Scattered mature white pine, oak,
	Red Pine	85	Sapling	1	6						and red pine. Some planted through, some avoided.
71	42110 - Pla	nted Red P	ine	Sapling	Well	42.9	6	Immature	N/A		2023 - Red pine is about 3ft tall. Some scattered oak, cherry and jack
	Canopy Species	% Cover	Size Class	DBH	Age						pine mixed in. Stand is still free to grow. 2017 - Chopped and trenched August 2016. Planted May 2017. 3-year regen check 10/7/19. 13%
	Red Pine	90	Sapling	1	6						mortality. Trees are 12-18" high. 84% FTG. average competition 8-10'
١	Northern Pin Oak	2	Log	12							high, mostly cherry. Stand has some pockets of mature timber. Some are
	Black Cherry	5	Sapling	1							planted through and others were avoided.
	Jack Pine	3	Pole/Sapling	6							