

Compartment Review Presentation

Shingleton Forest Management Unit

Compartment 41021 Entry Year 2021 Acreage: 3,322

County Schoolcraft

Management Area: Seney Lake Plain

Stand Examiner: Adam Petrelius

Legal Description:

T44N R16W Sections 22,23, 27 & 34

Identified Planning Goals:

The goals in this compartment include conducting multiple resource management for current and future generations. Forest Health, Recreation, Biodiversity Stewardship, Wildlife and Timber Management are some of the key management components within this compartment.

Soil and topography:

The soils in this compartment are predominantly peat soils associated with the large marsh complexes with scattered subtle sand ridges mixed throughout. The topography is very flat.

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

The compartment is entirely State owned and the Seney National Wildlife Refuge lies immediately adjacent to the north. Due to the remote location there are essentially no development or land use issues.

Unique Natural Features:

Almost the entire compartment lies within a Patterned Fen Ecological Reference Area (ERA).

Archeological, Historical, and Cultural Features:

None known.

Special Management Designations or Considerations:

Almost the entire compartment lies within a Patterned Fen Ecological Reference Area (ERA).

Watershed and Fisheries Considerations:

The southwest region of this compartment contains Duck Creek which serves as a tributary to the Manistique River. Duck Creek is a non-designated stream less than 50' width. 100' plus 5' per 1% increase in slope; buffers are recommended for Duck Creek to protect riparian areas in accordance with Best Management Practices.

Wildlife Habitat Considerations:

This compartment lies immediately south of the Seney National Wildlife Refuge and is dominated by the marsh/low conifer ridge complex. Duck Creek flows across the western side, and the Highwater Truck Trail is located just west of that. The majority of this compartment has been nominated for potential old growth and contains patterned fen that has been designated as an ecological reference area. The remaining area is a narrow strip of pine on uplands west of Duck Creek along the Highwater Truck Trail. The wildlife goal for this compartment is to protect the ecological values associated with the sensitive marsh system.

Mineral Resource and Development Concerns and/or Restrictions

Sand/gravel pits are not found in the general area and potential appears to be limited. There is no known metallic mineral potential in this area no known potential for economic hydrocarbon production in the UP.

Vehicle Access:

The Highwater Truck Trail runs through the southwest corner of the compartment, this is the only road within the compartment.

Survey Needs:

None at the present time.

Recreational Facilities and Opportunities:

The Highwater Truck Trail is a designated snowmobile trail.

Fire Protection:

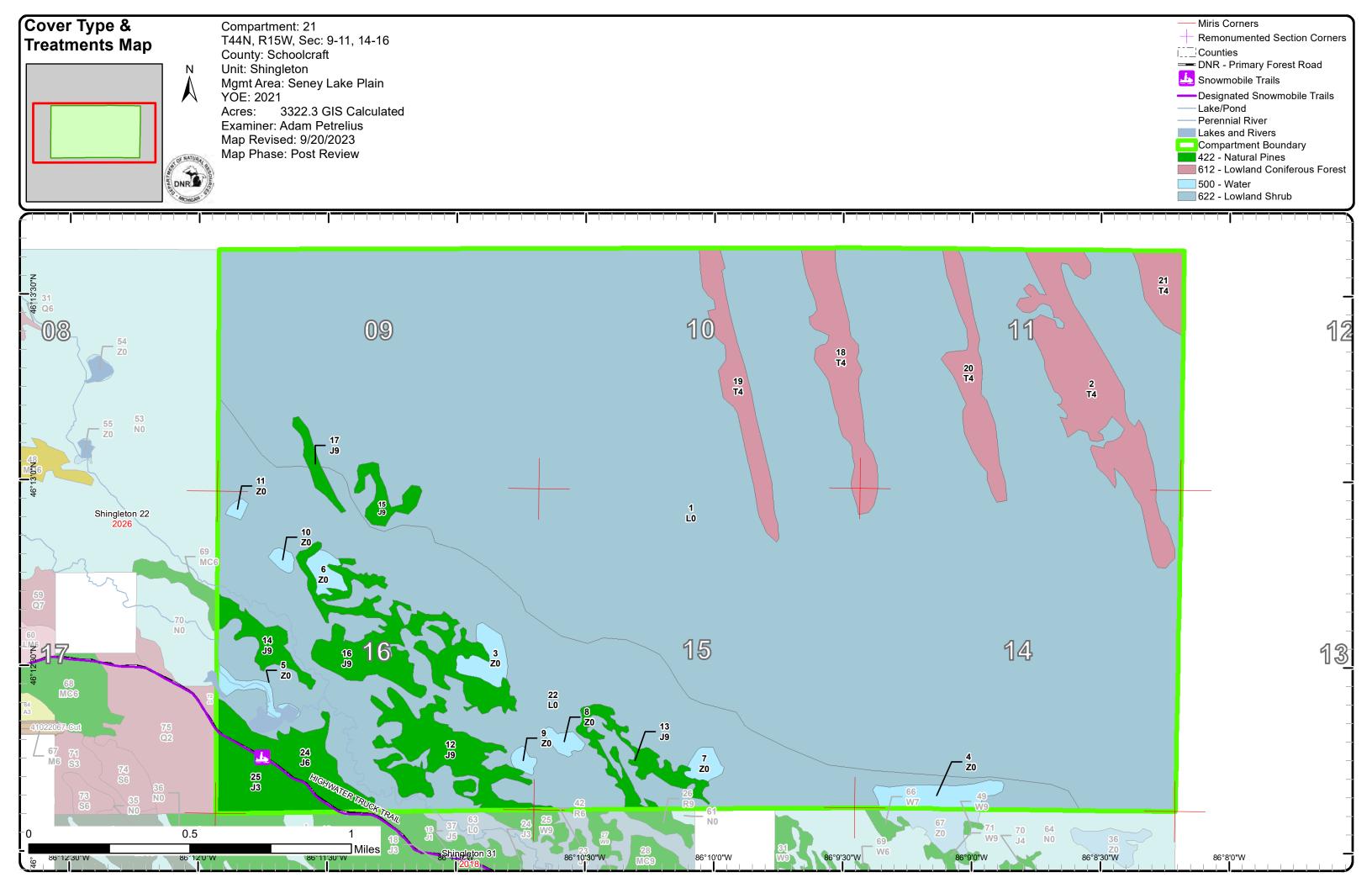
Everything north of Duck Creek within the compartment burned in the Seney Fire of 1977. With only one access road fire suppression activities would be very difficult.

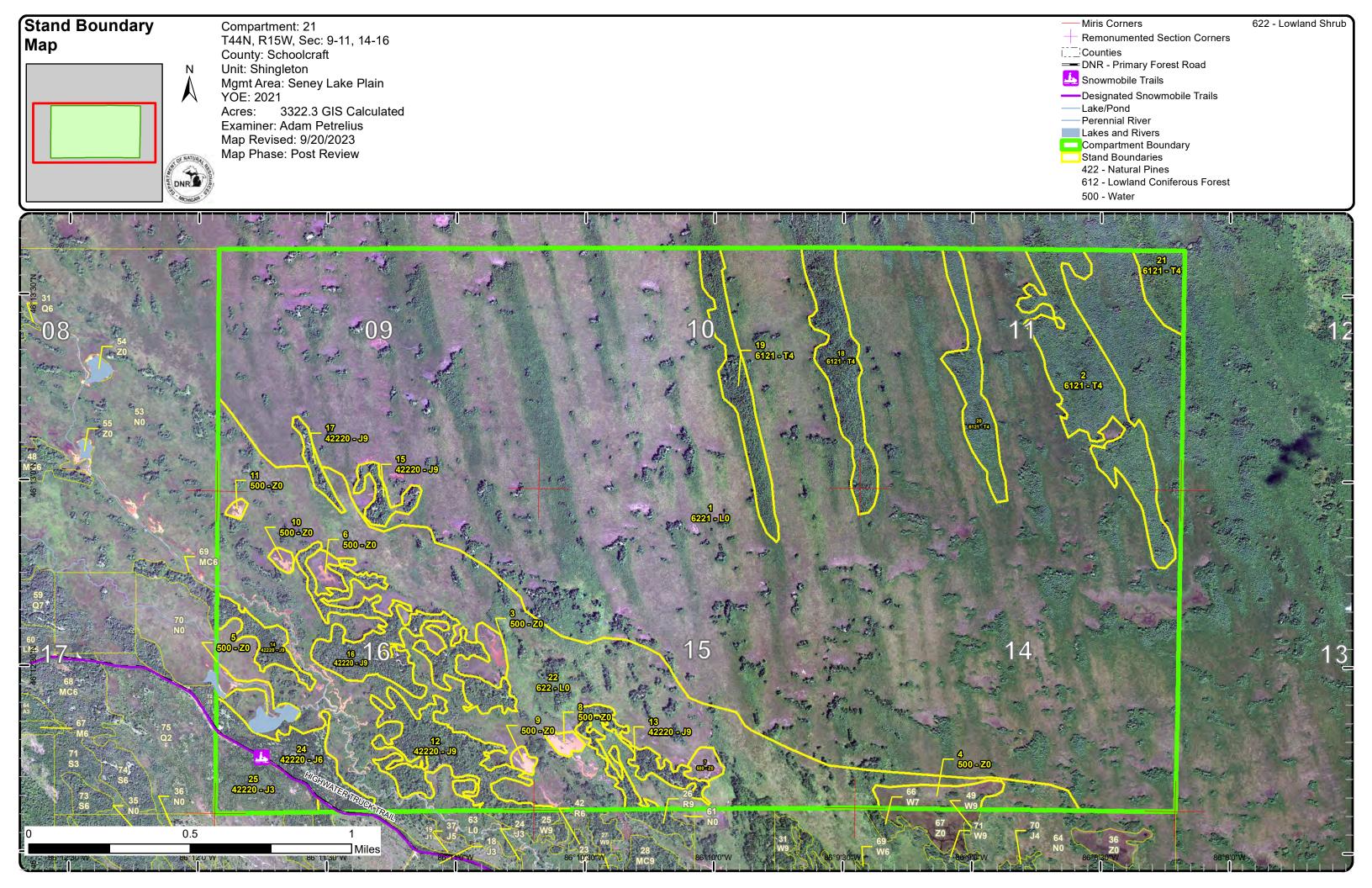
Additional Compartment Information:

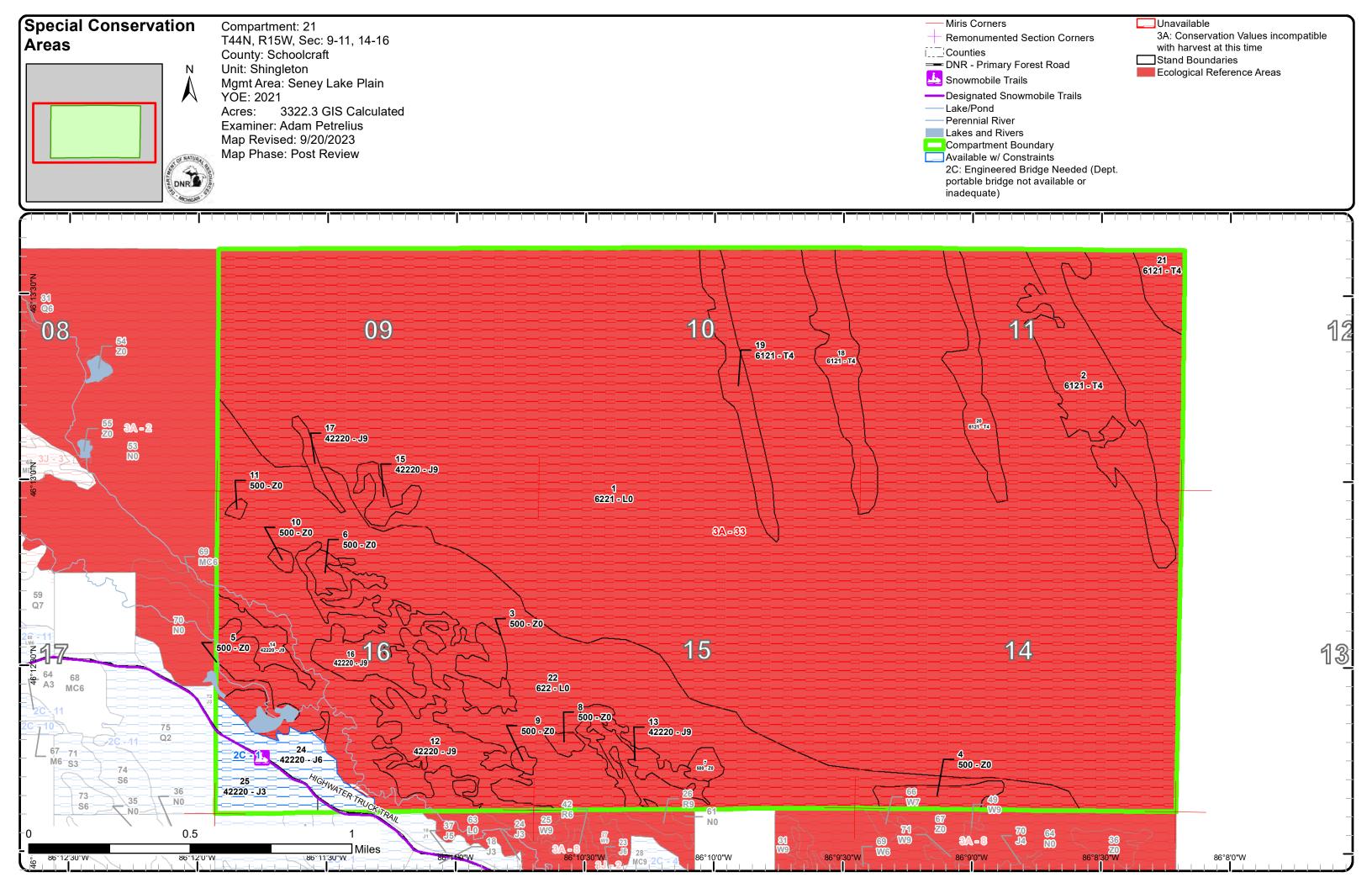
The following reports from the Inventory are attached:

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







Shingleton Mgt. Unit

Adam Petrelius : Examiner

Compartment 21 Year of Entry 2021



Age Class

	¥ dor	· / c	3/2			3 / 12				R &	8 8	3/15	B Land		N S		No. of the second	Jres	A A A A A A A A A A A A A A A A A A A	
Jack Pine	0	0	0	33	0	37	0	0	0	168	0	0	0	0	0	0	0	0	237	1
Lowland Shrub	2803	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2803	
Tamarack	0	0	0	0	0	0	222	0	0	0	0	0	0	0	0	0	0	0	222	
Water	60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	60	
Total	2863	0	0	33	0	37	222	0	0	168	0	0	0	0	0	0	0	0	3322	



Report 2 – Treatment Summary

Shingleton Mgt. Unit Year of Entry: 2021

Acres of Harvest

Compartment 21
Total Compartment Acres: 3,322

Commercial Harvest -

Harvests with Site Condition - 0

Next Step Harvest - 0

Habitat Cut - 0

S t			Mgt. Unit		Repor	t3	Treatments		Compartme Year of Ent	OF NATURAL PROPERTY OF NAT	
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

Total Treatment Acreage Proposed: 0

Shingleton Mgt. Unit

Adam Petrelius : Examiner Yea

Compartment: 21
Year of Entry: 2021

Availability for Management Total Acres Acres Avail Acres **Dominant Site Conditions** With Condition Not Available 3A 2C Acres Available 237 0 170 Jack Pine 68 170 68 2803 2803 0 0 Lowland Shrub 2,803 222 0 222 Tamarack 222 0 60 0 60 Water 60 0 3,322 0 68 3,255 **Total Forested Acres** 68 3,255 0% 98% 2% Relative Percent

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

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Available	2C: Engineered Bridge Needed (Dept. portable bridge not available or inadequate)	68	Unspecified	Unspecified	Unspecified	Unspecified
C	Comments:						
33	Unavailable	3A: Conservation Values incompatible with harvest at this time	3,255	Unspecified	Unspecified	Unspecified	Unspecified
_	Comments: ERA						

9/20/2023 4:54:43 PM - Page 1 of 1 TOOHEYH

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				

Shingleton Mgt. Unit Compartment: 21
Year of Entry 2021



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 Type Area	Description	HCVA = Ecological Reference Area HCVA = High Conservation Value Area SCA = Special Conservation Area
ERA Ecological Reference Areas	identified as Element Occurrences (EOs) by the context of their natural community classification (Excellent) or B (Good) and a Global (G) or St threatened (2), or rare (3) serve as an initial batthe State. The system is comprised of individual managed for restoration and maintenance of r	quality examples of natural communities that have been the Michigan Natural Features Inventory (MNFI) within the on system. Element Occurrences with viability ranks of A rate (S) element (rarity) ranking of endangered (1), asse of ERAs. They may be located upon any ownership in all or associations of natural community types that are natural ecological processes and values. The public may using the DNR Conservation Area Recommendation Form.

Compartment: 21 Year of Entry: 2021



Stand	d Level 4 Co	over Ty	/pe		Size Densi	ty	Acres	Stand Age	BA Rang	е	Managed S	ite	General Comments	MICHIGAN .
1	6221	l - Fen			Nonstocke	ed	2,224.8		Unspecific	ed	No		Stand contains over 100 small islands of mixed pine most of which less than 1 acre.	h are
2	6121 - 1	Гатаага	ıck	ſ	Poletimber F	Poor	88.6	59	1-50		N/A			
3	500 -	500 - Water Nonstocked				ed	10.9		Unspecific	ed	No			
4	500 -	Water			Nonstocke	ed	17.3		Unspecific	ed	No			
5	500 -	Water			Nonstocke	ed	8.6		Unspecifie	ed	No			
6	500 - Water Nonstocked					ed	6.5		Unspecific	ed	No			
7	500 - Water Nonstocked				5.5 Unspecifi			ed	No					
8	500 -	500 - Water Nonstocked				4.2 Unspecifie			ed	No				
9	500 -	Water			Nonstocke	ed	2.8		Unspecific	ed	No			
10	500 -	Water			Nonstocke	ed	2.6		Unspecific	ed	No			
11	500 -	Water			Nonstocke	ed	1.7		Unspecific	ed	No			
12	42220 - Natı	ural Jac	ck Pine		Sawtimber \	Vell	49.8	82	81-110		N/A			
	Canopy Species	% Co	ver Siz	e Class	DBH A	ge	Sub-Car	nopy Speci	es Dens	ity	Avg. Height	Size		
	Red Pine	5		.og/Pole	14			ck Pine	Medi		10 - 20 feet	Sapling		
	Black Spruce	10		Pole	9			k Spruce	Medi		10 - 20 feet	Sapling		
	White Pine	25		.og/Pole	14		Та	marack	Lov	W	10 - 20 feet	Sapling		
	Jack Pine	60) L	.og/Pole	10 8	2								
13	42220 - Natu	ural Jac	ck Pine		Sawtimber \	Vell	21.0	82	81-110		N/A			

Report 7 - Stands

Compartment: 21 Year of Entry: 2021



Stand	Level 4 Co	over Type		Size De	nsity	sity Acres Stand Age BA Range			Managed S	ite	General Comments
14	42220 - Nati	ural Jack P	ine S	Sawtimb	er Well	15.3	82	81-110	N/A		
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	
	Red Pine	5	Log/Pole	14		Ta	amarack	Low	10 - 20 feet	Sapling	
	Black Spruce	10	Pole	9		Blad	ck Spruce	Medium	10 - 20 feet	Sapling	
	Jack Pine	60	Log/Pole	10	82	Ja	ack Pine	Medium	10 - 20 feet	Sapling	
	White Pine	25	Log/Pole	14							_
15	42220 - Nati	ural Jack P	ine S	Sawtimb	er Well	10.3	82	81-110	N/A		
16	42220 - Nat	ural Jack P	ine :	Sawtimb	er Well	65.2	82	81-110	N/A		
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	
	Jack Pine	60	Log/Pole	10	82		ck Spruce	Medium	10 - 20 feet	Sapling	
	White Pine	25	Log/Pole	14		Ta	amarack	Low	10 - 20 feet	Sapling	
	Red Pine	5	Log/Pole	14		Ja	ack Pine	Medium	10 - 20 feet	Sapling	
	Black Spruce	10	Pole	9							
17	42220 - Nati	ural Jack P	ine S	Sawtimb	er Well	6.7	82	81-110	N/A		
18	6121 - 7	Tamarack	F	Poletimbe	er Poor	46.7	59	1-50	N/A		
19	6121 - 7	Tamarack	F	Poletimbe	er Poor	35.0	59	1-50	N/A		
20	6121 - 7	Tamarack	F	Poletimb	er Poor	32.7	59	1-50	N/A		
21	6121 - 7	Tamarack	F	Poletimbe	er Poor	18.7	59	1-50	N/A		
22	622 - Low	vland Shrub)	Nonsto	cked	578.2	L	Inspecified	No		Stand contains over 100 small islands of mixed pine most of which are less than 1 acre.
24	42220 - Nati	ural Jack P	ine F	Poletimb	er Well	36.6	47	51-80	N/A		
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	
	Jack Pine	85	Pole/Sapling		47		ack Pine	Medium	10 - 20 feet	Sapling	
	Black Spruce	15	Pole/Sapling			Ta	amarack	Low	10 - 20 feet	Sapling	
	*					Blad	ck Spruce	Medium	10 - 20 feet	Sapling	

Compartment: 21 Year of Entry: 2021



Stand	Level 4 Co	over Type		Size De	nsity	Acres	Stand Age	BA Range	Managed S	Site	General Comments	MICHIGAN .
25	42220 - Natural Jack Pine		ine	Sapling	Well	32.5	32.5 29 1-50		N/A		Stand was cut as "Blueberry Knobs Job"	
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	Old comment STAND CHECKED IN 1995, 53% STOCKED Stand has now filled in with more spruce and jack pine.	
	Jack Pine	80	Sapling/Pole	4	29	Blac	k Spruce	Medium	10 - 20 feet	Sapling	,,,,,,	
	Black Spruce	20	Sapling/Pole	3		Ja	ck Pine	Medium	10 - 20 feet	Sapling		