

Compartment Review Presentation

Shingleton Forest Management Unit

Compartment 41090 Entry Year 2020 Acreage: 1,767

County Delta

Management Area: Garden Thompson Plains

Revision Date: 2018-07-16

Stand Examiner: Adam Petrelius

Legal Description:

40N 18W Sections 13-16

Identified Planning Goals:

Multiple resource management for current and future generations.

Soil and topography:

The topography within the compartment is mostly flat with steeper hills bordering Halfway Lake, Lake 13, and Lake Michigan. Elevation values range between 581-728 feet. Most of the compartment is forested with only a few stands classified as marsh or treed bog. It has a diverse mixture of forest cover types including lowland conifers, aspen, jack pine, red pine, northern hardwood, and oak. The major soil types found are Rubicon and Roscommon. Additional soil types are Augres, Carbondale, Rousseau, Dawson, Duel, Kinross, Iosco, and Croswell. Habitat types within the compartment, in order of abundance, are PVE, Unclassified Lowland, PArVAa, and PArV. It lies within the Thompson Plains Land Type Association, and the Garden Thompson Plain Management Area.

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

State land within this compartment was acquired between 1907 and 1974. The compartment boundary borders both private and state land. Camps occupy some of the private land. The compartment is used mostly by hunters, ORV users, and snowmobile riders.

Unique Natural Features:

Stands of oak, a rare cover type in the Shingleton Management Unit, are found within the compartment. These stands are actively managed for timber and wildlife purposes.

Archeological, Historical, and Cultural Features:

None known.

Special Management Designations or Considerations:

Various stands within the compartment and adjacent compartments lie within the Garden Grade Grouse Enhanced Management System (GEMS). Harvesting and management of these stands follow guidelines outlined in the GEMS plan.

Watershed and Fisheries Considerations:

Eastern regions of this compartment contain Halfway Lake, Lake Thirteen, in addition to several unnamed waterbodies. 100' plus 5' per 1% increase in slope; buffers are recommended to protect shoreland areas adjacent to these waterbodies in accordance with Best Management Practices (specifically stands 68 and 69).

The western region of this compartment borders Big Bay de Noc located within Green Bay of Lake Michigan.

Wildlife Habitat Considerations:

Compartment 90 is located on the north end of the Garden Peninsula within the Escanaba/Door Peninsula ecological subsubsection; the western boundary of the compartment abuts Lake Michigan. Pre-settlement land cover consisted of a mix of wetlands, pine, and oak, with lesser amounts of northern hardwoods and hemlock in the north. Aspen is now an important component of the compartment, mixing with the pine and hardwood species. Aspen associations are at various age classes. Wildlife objectives include providing age class diversity for aspen association stands, maintaining openings, and maintaining cedar stands as well as leaving oak and hemlock where present. Any oak, hemlock, and most cedar should be retained in areas to be harvested for a source of hard mast, to provide cover, and to maintain diversity.

Mineral Resource and Development Concerns and/or Restrictions

A former sand pit is located in Section 16, and there may be some additional sand potential within the compartment. Numerous wetlands and a shallow water table might limit development. There is no known metallic mineral potential in this area, and there is no history of mineral leasing. There is no commercial oil and gas production in the UP

Vehicle Access:

Except for the areas containing low ground, the compartment has a good system of forest roads that can be driven during the snow free months. A few of the forest roads are gated when entering private ownership. State Highway M183 travels along the western boundary. Access to the interior portions can be gained by traveling south of US2 on the Cooks/Garden Grade snowmobile trail

Survey Needs:

Survey work is needed.

Recreational Facilities and Opportunities:

The Cooks/Garden snowmobile trail travels through the middle of the compartment and receives moderate use by ORV riders also. Opportunities for hunting, fishing, and other forms of recreational activity exist within or adjacent to this compartment.

Fire Protection:

Response time to fires within this compartment from the Thompson field office will be moderate. The compartment receives moderate use throughout fire season and human caused fires are a concern. Both spring and summer fires are likely to occur here and fuel types are highly variable. Lake Michigan, Halfway Lake, and Lake 13 can be used as a water source if needed.

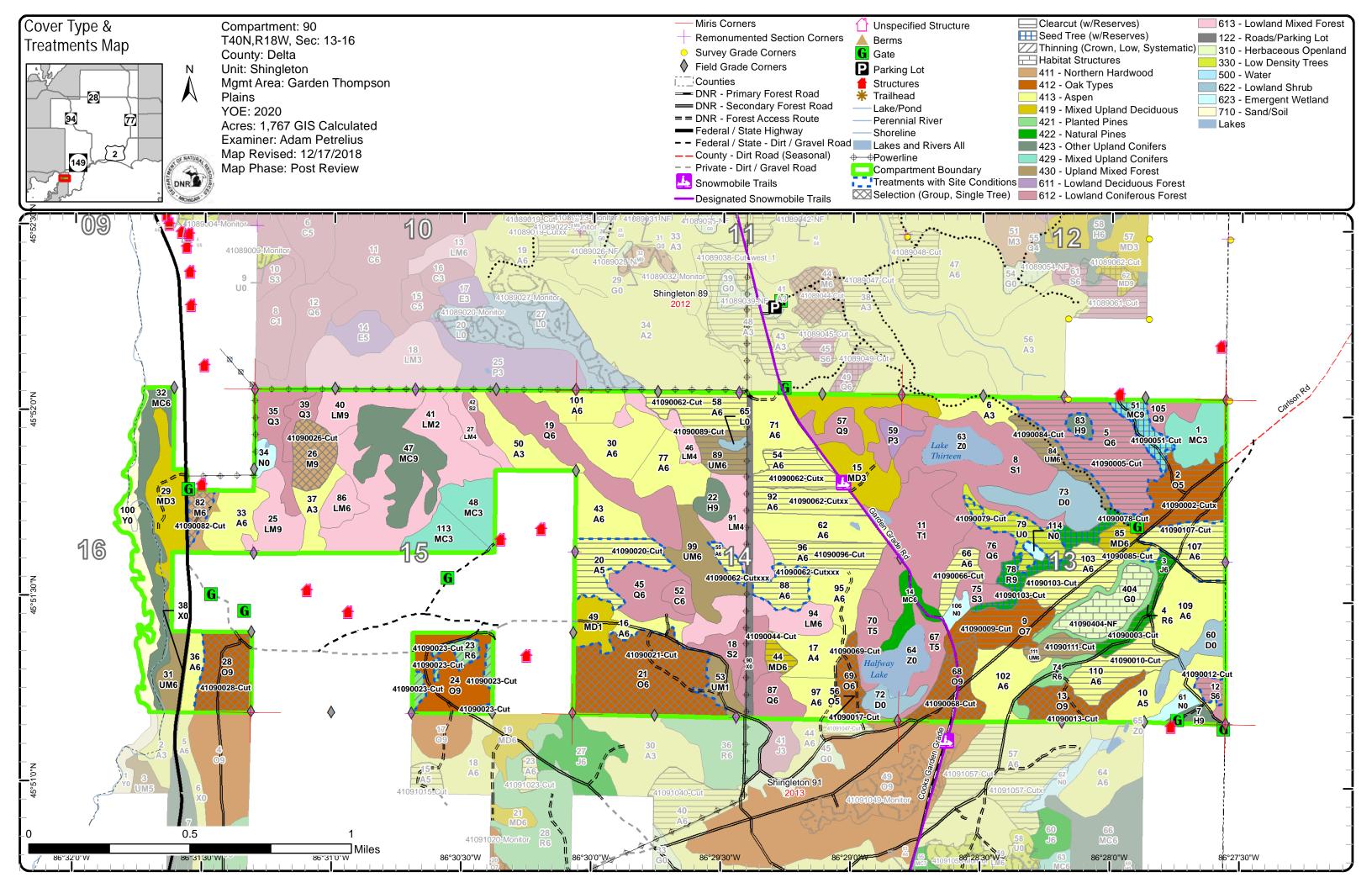
Additional Compartment Information:

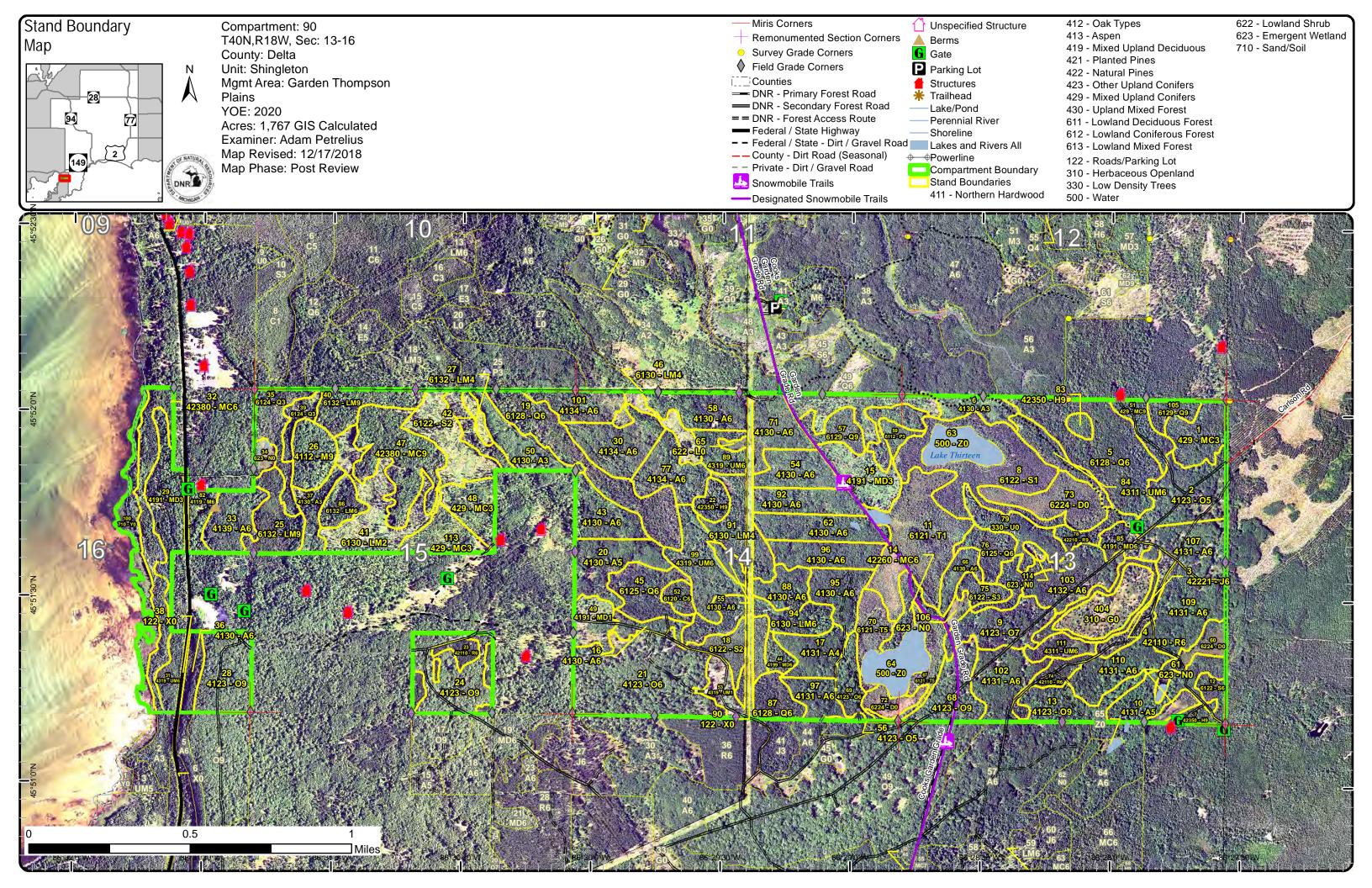
The following reports from the Inventory are attached:

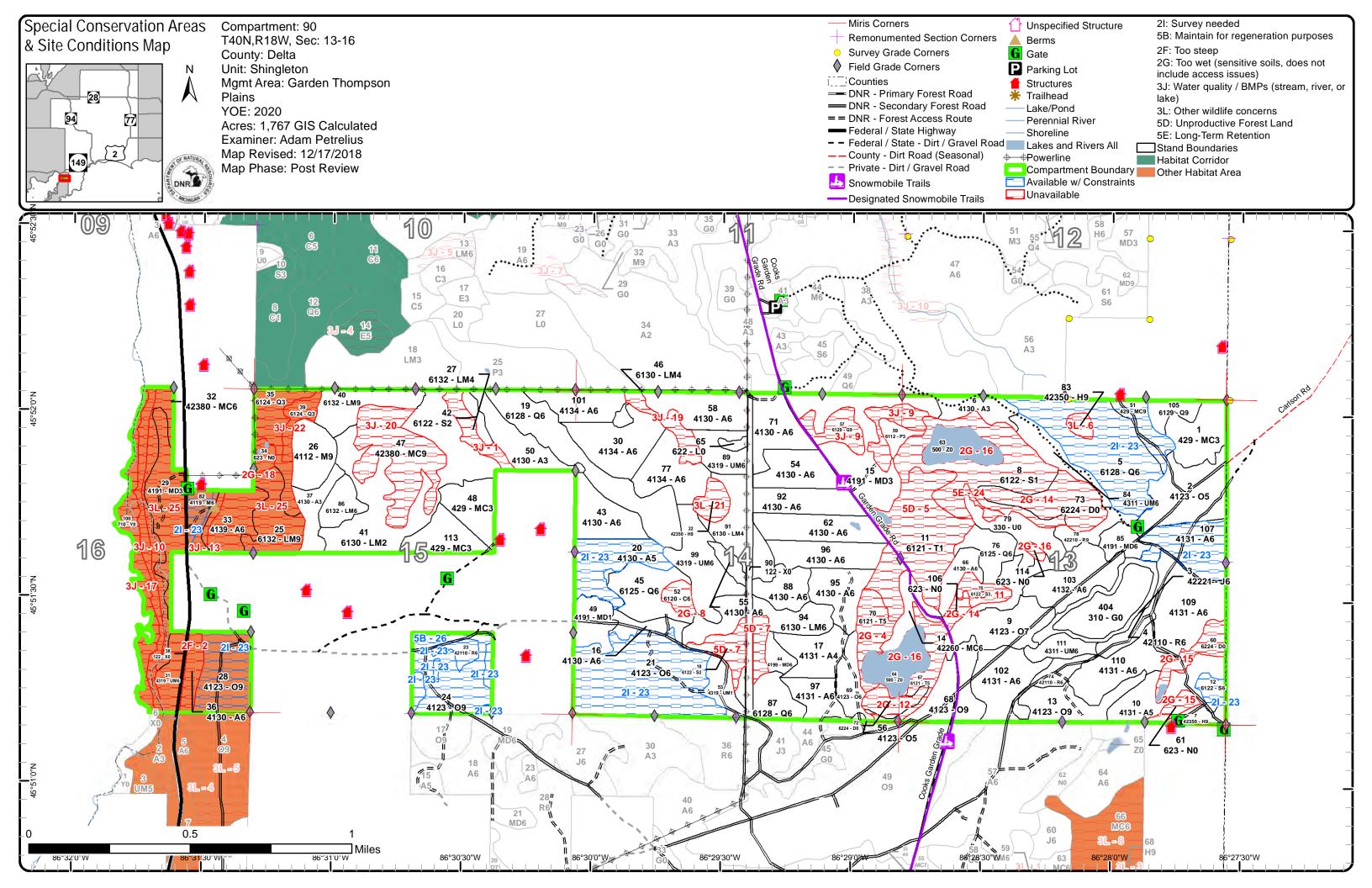
Total Acres by Cover Type and Age Class
Cover Type by Harvest Method
Proposed Treatments – No Limiting Factors
Proposed Treatments – With Limiting Factors
Stand Details (Forested and Nonforested)
Dedicated and Proposed Special Conservation Areas
Site Condition Details

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

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







Compartment 90 Year of Entry 2020

Shingleton Mgt. Unit **Adam Petrelius : Examiner**



Age Class

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	<u> </u>														<u>/ ``</u>	<u>/ ``</u>		<u> </u>	/
Aspen	0	11	17	87	287	76	0	0	8	0	0	0	0	0	0	0	0	0	486
Cedar	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	5
Hemlock	0	0	0	0	0	0	0	0	0	4	3	0	7	0	0	0	0	0	14
Herbaceous Openland	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21
Jack Pine	0	0	0	0	0	0	10	0	0	0	0	0	0	0	0	0	0	0	10
Low-Density Trees	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16
Lowland Aspen/Balsam Poplar	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Lowland Conifers	0	0	0	0	43	24	0	0	40	57	20	0	0	0	0	0	0	0	182
Lowland Mixed Forest	0	60	0	52	0	0	0	0	9	0	45	0	0	0	0	0	0	0	166
Lowland Shrub	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Lowland Spruce/Fir	0	4	0	0	0	70	0	6	0	0	0	0	0	0	0	0	0	0	79
Marsh	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13
Mixed Upland Deciduous	0	51	0	25	0	0	8	5	0	0	0	0	0	0	0	0	0	0	89
Natural Mixed Pines	0	0	0	0	10	0	0	0	0	0	0	0	0	0	0	0	0	0	10
Northern Hardwood	0	0	0	0	0	0	0	0	8	16	0	0	0	0	0	0	0	0	24
Oak	0	0	0	0	0	0	0	0	27	196	0	0	0	0	0	0	0	0	223
Red Pine	0	0	0	18	0	0	11	0	0	17	0	0	0	0	0	0	0	0	46
Sand, Soil	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21
Tamarack	0	0	0	51	0	0	12	0	0	0	13	0	0	0	0	0	0	0	76
Treed Bog	40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	40
Upland Conifers	0	0	30	18	0	30	0	0	0	10	38	0	0	0	0	0	0	0	126
Upland Mixed Forest	0	9	0	33	11	12	8	0	0	0	0	0	0	0	0	0	0	0	73
Urban	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16
Water	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30
Total	159	135	47	284	355	212	49	11	92	300	124	0	7	0	0	0	0	0	1772



Report 2 – Treatment Summary

Shingleton Mgt. Unit Year of Entry: 2020

Acres of Harvest

Compartment 90
Total Compartment Acres: 1,767

Commercial Harvest - 311 Harvests with Site Condition - 244 Next Step Harvest - 0 Habitat Cut - 0

Cover Type by Harvest Method

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										-	$\overline{}$	
Aspen		185	0	0	0	0	0	0	0	0	185	
Jack Pine		10	0	0	0	0	0	0	0	0	10	
Lowland Conifers		50	0	0	0	0	0	0	0	0	50	
Lowland Spruce/Fir		4	0	0	0	0	0	0	0	0	4	
Mixed Upland Deciduous		12	0	0	0	0	0	0	0	0	12	
Northern Hardwood		0	21	0	0	0	0	0	0	0	21	
Oak		52	139	0	0	0	0	0	0	0	191	
Red Pine		0	0	0	17	0	11	0	0	0	28	
Tamarack		14	0	0	0	0	0	0	0	0	14	
Upland Conifers		0	0	0	10	0	0	0	0	0	10	
Upland Mixed Forest		31	0	0	0	0	0	0	0	0	31	
	Total	357	160	0	27	0	11	0	0	0	555	

Proposed and Next Step Treatments by Method

		/.	is a line is		orine o			00,000	ouiono,		4° / xò	,
Current		555	0	0	0	0	0	0	0	21	576	
Next Step		0	0	0	0	0	0	535	21	80	636	
	Total	555	0	0	0	0	0	535	21	101	1213	

Next Step

any species located presently onsite <u>Acceptable</u>

Regen:

<u>Other</u> Stand will need survey work. Possible green-up issues with adjacent GEMS treatment.

Comment:

Proposed Start Date: 10/1 /2019

41090009-Cut 21.9 4123 - Red Oak Sawtimber 81 1-50 Clearcut with 413 - Aspen Even-Aged Field Boundary Harvest

Retention

Poor

Habitat Cut: No Site Condition:

Prescription Cut all trees except hemlock and oak where present. Two inch spec should be used on hardwood trees. Minimize impacts to snowmobile trail if possible. Less than 3% retention is acceptable to promote best possible aspen regeneration. Leave at minimum 1, 8 inch, 8 feet long log on site for Specs:

drumming logs.

Monitoring, Natural Regen (Re-Inventory) Next Step

Treatments:

Acceptable Aspen regeneration is expected, but mixed coniferous and deciduous are acceptable.

Regen:

Other Do not cut serviceberry and dogwood.

Comment:

Next Step

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2019

41090017-Cut Clearcut with 1.1 4131 - Aspen, Oak Poletimber 30 51-80 Harvest Even-Aged Field Boundary 413 - Aspen Well Retention

Habitat Cut: No Site Condition:

Prescription Cut all trees except hemlock and oak where present. Two inch spec should be used on hardwood trees. Less than 3% retention is acceptable. Minimize impacts to snowmobile trail if possible. Less than 3% retention is acceptable to promote best possible aspen regeneration. Leave at Specs:

minimum 1, 8 inch, 8 feet long log on site for drumming logs.

Monitoring, Natural Regen (Re-Inventory)

Do not cut serviceberry and dogwood.

Next Step **Treatments:**

<u>Acceptable</u> Aspen regeneration is expected, however mixed coniferous and deciduous is acceptable.

Regen:

Other Comment:

Beech, Cherry Well 140 Selection Hardwood Boundary Association

Habitat Cut: No Site Condition:

<u>Prescription</u> Target 80 sq. ft. basal area for residual. Overall residual basal area will be lower than this though. Create more regeneration gaps than usual since previous harvest failed to produce regeneration. Access through private will be needed. Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Mixed deciduous and coniferous species.

Regen:

Other Comment:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable any species currently present onsite

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2019

41090062-Cut 19.9 4130 - Aspen Poletimber 38 81-110 Harvest Clearcut with 413 - Aspen Even-Aged Draft Field Retention Boundary

Habitat Cut: No Site Condition:

Cut all trees except hemlock and oak where present. Two inch spec should be used on hardwood trees. Minimize impacts to snowmobile trail if **Prescription** Specs:

possible. Less than 3% retention is acceptable to promote best possible aspen regeneration.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

<u>Acceptable</u> Aspen regeneration is expected, however mixed coniferous and deciduous trees are acceptable.

Regen: Other

Leave at minimum 1, 8 inch, 8 feet long log on site for drumming logs per acre. Do not cut serviceberry and dogwood.

Comment:

Prescription Specs:

<u>Acceptable</u> Aspen regeneration is expected, but mixed coniferous and deciduous are acceptable.

Regen:

Other Do not cut serviceberry and dogwood.

Comment:

Proposed Start Date: 10/1 /2016

41090066-Cut 8.2 40 4130 - Aspen Poletimber 81-110 Clearcut with 413 - Aspen Even-Aged Draft Field Harvest Well Retention Boundary

Habitat Cut: No Site Condition:

Cut all trees except hemlock and oak where present. Two inch spec should be used on hardwood trees. Minimize impacts to snowmobile trail if <u>Prescription</u> possible. Less than 3% retention is acceptable to promote best possible aspen regeneration. Leave at minimum 1, 8 inch, 8 feet long log on site for Specs:

drumming logs per acre.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

<u>Acceptable</u> Aspen regeneration is expected, but mixed coniferous and deciduous are acceptable.

Regen:

Do not cut serviceberry and dogwood. **Other**

Comment:

can be left along boundaries of adjacent stands which have been harvested by incorporating into the red line. Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Any species present onsite. Stand is mostly red pine currently, however due to the size, location, and shape of stand intensive red pine management is <u>Acceptable</u>

not desired. Stand will convert to upland mixed cover type. Regen:

Other Comment:

Proposed Start Date: 10/1 /2019

41090079-Cut 6121 - Tamarack Sapling 26 1-50 Harvest Clearcut with 413 - Aspen Even-Aged Field Boundary

Poor

Retention

Habitat Cut: No Site Condition: Unproductive

Prescription Cut all trees except hemlock and oak where present. Two inch spec should be used on hardwood trees. Minimize impacts to snowmobile trail if possible. Less than 3% retention is acceptable to promote best possible aspen regeneration. Leave at minimum 1, 8 inch, 8 feet long log on site for Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

<u>Acceptable</u> Aspen regeneration is expected, but mixed coniferous and deciduous are acceptable.

Regen:

Other Do not cut serviceberry and dogwood.

Comment:

Specs:

Acceptable Any species currently found onsite. Open areas lacking aspen regeneration may be left as grass or planted per WLD specifications.

Regen:

Other 1 4 1

Comment:

Proposed Start Date: 10/1 /2019

41090089-Cut 38 11.0 4319 - Mixed Poletimber 51-80 Harvest Clearcut 413 - Aspen Even-Aged Draft Field **Upland Forest** Well Boundary

Habitat Cut: No Site Condition:

Prescription Cut all trees except hemlock and oak where present. Two inch spec should be used on hardwood trees. Minimize impacts to snowmobile trail if Specs: possible. Less than 3% retention is acceptable to promote best possible aspen regeneration. Leave at minimum 1, 8 inch, 8 feet long log on site for drumming logs per acre. Aspen regeneration is expected, but mixed coniferous and deciduous are acceptable. Do not cut service berry and dogwood.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen regeneration is expected, however mixed coniferous and deciduous are acceptable.

Regen:

Other Comment:

Proposed Start Date: 10/1 /2021

111 41090111-Cut 7.8 4311 - Pine, Aspen Poletimber 111-Clearcut Draft Field Harvest 413 - Aspen Even-Aged Mix Well 140 Boundary

Habitat Cut: No Site Condition:

Cut all trees except hemlock and oak where present. Two inch spec should be used on hardwood trees. Minimize impacts to snowmobile trail if <u>Prescription</u> Specs: possible. Less than 3% retention is acceptable to promote best possible aspen regeneration. Leave at minimum 1, 8 inch, 8 feet long log on site for

drumming logs per acre. Do not cut serviceberry and dogwood.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

<u>Acceptable</u> Aspen regeneration is expected, but mixed coniferous and deciduous are acceptable.

Regen:

Other Comment:

s Year of Entry: 2020 а BA **Cover Type Treatment** Acres Stand Size Stand **Treatment Treatment** Age **Approval** n CoverType Name Density Age Method Objective Structure Status Range d Type Brushpile/Woody 404 41090404-NF 21.1 310 - Herbaceous Nonstocked NonForestMgt 310 -Draft Field Unspec Openland ified **Debris Creation** Herbaceous Boundary Openland

Report 3 -- Treatments

Compartment: 90

Habitat Cut: No Site Condition:

Shingleton Mgt. Unit

<u>Prescription</u> Remove woody vegetation including stumps. Slash can be piled on edges, burned, or piled in opening. Future non-forest management decisions per <u>Specs:</u> WLD specifications.

W41- 1639: Opening Enhancement. Prescribed fire, farming (dozing, disking, raking, seeding (native or naturalized species only), fertilizing and liming), brushhog/saw removal of competing trees and establishment of native hard and soft mast producers such as red oak, crabapple and others.

Next Step Other, Other

Treatments:

Acceptable Non-forest management

Regen:
Other
Comment:

Proposed Start Date: 10/1 /2019

Total Treatment 576.3 Acreage Proposed:

Shingleton Mgt. Unit

Compartment: 90 Year of Entry: 2020 **Adam Petrelius : Examiner**

Availa	ability for	Managemei	nt									
Total	Acres	Acres Avail	Acres	D	omina	nt Site	Cond	dition	S			
Acres	Available	With Condition	Not Available		21	5B	2F	2G	3J	3L	5D	5E
485	414	45	25	Aspen	45		7		2	15		
5	0	0	5	Cedar				5				
14	4	0	10	Hemlock						10		
21	21	0	0	Herbaceous Openland								
10	10	0	0	Jack Pine	0							
16	15	0	2	Low-Density Trees								2
4	4	0	0	Lowland Aspen/Balsam Poplar								
183	90	50	44	Lowland Conifers	50				27	17		
165	129	0	36	Lowland Mixed Forest					17	19		
2	2	0	0	Lowland Shrub								
78	5	4	69	Lowland Spruce/Fir	4			48			21	
13	0	0	13	Marsh				13				
87	63	0	25	Mixed Upland Deciduous	0					25		
10	10	0	0	Natural Mixed Pines								
24	16	6	3	Northern Hardwood	6				3			
222	104	118	0	Oak	89	29						
46	35	11	0	Red Pine	11							
21	0	0	21	Sand, Soil					21			
76	0	0	76	Tamarack				25			51	
40	0	0	40	Treed Bog				40				
126	48	10	68	Upland Conifers	10				53	15		
73	64	0	9	Upland Mixed Forest						9		
16	16	0	0	Urban								
30	0	0	30	Water				30				
1,767	1,049	244	475	Total Forested Acres	215	29	7	161	122	110	72	2
	59%	14%	27%	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	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	9	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
	Comments:						

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	River buffer						
2	Unavailable	2F: Too steep	8	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
4	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	13	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Bog adjacent to Ha	alfway Lake					
5	Unavailable	5D: Unproductive Forest Land	51	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
	Comments:						
6	Unavailable	3L: Other wildlife concerns	3	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: pure hemlock stand	d					
7	Unavailable	5D: Unproductive Forest Land	15	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
8	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	5	1C: Other dept or div proc/practices	Unspecified	Unspecified	Unspecified
	Comments: wet bowl of hemloo	ck and cedar					

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9	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	20	1C: Other dept or div proc/practices	Unspecified	Unspecified	Unspecified
	Comments: creek and hemlock	cutting restraints					
10	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	15	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
11	Unavailable	5D: Unproductive Forest Land	7	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
12	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	20	3J: Water quality / BMPs (stream, river, or lake)	5D: Unproductive Forest Land	Unspecified	Unspecified
	Comments:						
13	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	5	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
14	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	73	5D: Unproductive Forest Land	Unspecified	Unspecified	Unspecified
	Comments: bog surrounding la	ke 13					

Shingleton Mgt. Unit
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15	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	15	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
(Comments:						
16	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	31	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: vater						
17	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	21	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: oad, powerline, lal	ke shore					
18	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	4	Unspecified	Unspecified	Unspecified	Unspecified
(Comments:						
19	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	8	Unspecified	Unspecified	Unspecified	Unspecified
(Comments:						
20	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	38	1C: Other dept or div proc/practices	Unspecified	Unspecified	Unspecified
	Comments: Numerous creeks p	present. Hemlock cutting restra	ints als	0.			

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21	Unavailable	3L: Other wildlife concerns	7	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: nemlock						
22	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	7	Unspecified	Unspecified	Unspecified	Unspecified
(Comments:						
23	Available	2l: Survey needed	215	Unspecified	Unspecified	Unspecified	Unspecified
(Comments:						
24	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
(Comments:						
25	Unavailable	3L: Other wildlife concerns	100	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: SCA- WLD will pro	vide guidance.					
26	Available	5B: Maintain for regeneration purposes	29	Unspecified	Unspecified	Unspecified	Unspecified
(Comments:						

Mgt. Unit Compartment: 090
Year of Entry: 2020



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
	Habitat Area	Habitat Corridor	Error	63
Comments				
	unique attributes related to a mature nigrants, valuable snow intercept, and			oduction
	Habitat Area	Habitat Corridor	Error	128
Comments				
•	unique attributes related to a mature nigrants, valuable snow intercept, and			oduction

Mgt. Unit Compartment:
Year of Entry

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 Description
Area

ERA = Ecological Reference Area

HCVA = High Conservation Value Area

SCA = Special Conservation Area

S t	Shingleton	Mgt. Unit		Report 7	– Forested	Stands Compartment: 90 Year of Entry: 2020
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	429 - Mixed Upland Conifers	Sapling Well	17.9	25	1-50	Minimal amounts of jack pine present. Former jack pine stand which converted to aspen. Stand was covered under FTP-554, stand was never scarified or at least no record of it, it was reinventoried in 2000 and it was determined to be fully stocked A3, cult codes were not carried forward, the FTP was cancelled with a blanket letter.
						GEMS treatment scheduled for 2037.
2	4123 - Red Oak	Poletimber Medium	29.6	81	1-50	Harvested in fall 2017 with GEMS 2017 sale
3	42221 - Natural Jack Pine, Mixed Deciduous	Poletimber Well	9.7	50	51-80	
4	42110 - Planted Red Pine	Poletimber Well	10.0	22	51-80	Stand was covered under FTP-680, 10 rows of red pine were planted around grass opening to eliminate encroaching competition.
5	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	49.9	88	111-140	
6	4130 - Aspen	Sapling Well	10.6	7	1-50	[4/8/10 bb] Stand is now on proposal 006-10, Lake 13 Sale. Actual stand acres = 9, Unit 3. Residual BA = 2 sq ft hemlock, 1 sq ft white pine. FTP W41-1449 submitted for Aspen TSI when sale is complete.
						GEMS treatment scheduled in 2052.
7	42350 - Upland Hemlock	Sawtimber Well	4.2	88	111-140	
8	6122 - Black Spruce	Sapling Poor	47.5	43	1-50	
9	4123 - Red Oak	Sawtimber Poor	23.0	81	1-50	Stand harvested in fall 2017 with GEMS sale.
10	4131 - Aspen, Oak	Poletimber Medium	20.6	38	1-50	Stand appears younger than 37, however that is what it shows in records. Originally scheduled for GEMS treatment in 2017, however it was dropped due to non-merch wood. Needs new treatment period scheduled in plan.
						Following discussion with WLD, it was decided to change the treatment period in plan for this stand to 2047.
11	6121 - Tamarack	Sapling Poor	51.2	26	1-50	Stand has a history of flooding.
12	6122 - Black Spruce	Poletimber Well	5.5	66	81-110	SE portion of stand may have a creek and has denser pockets of cedar.
13	4123 - Red Oak	Sawtimber Well	18.4	83	81-110	Oak was cut in the summer/fall of 2002. Understory is a mixture of aspen and oak.

s t	Shingleton	Mgt. Unit		Report 7	– Forested	Stands Compartment: 90 Year of Entry: 2020
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
14	42260 - Natural Pine, Mixed Deciduous	Poletimber Well	9.7	33	51-80	
15	4191 - Mixed Upland Deciduous with Conifer	Sapling Well	38.6	7	1-50	4/8/10 bb] Stand is now on proposal 006-10, Lake 13 Sale. Actual stand acres = 38, Unit 2&3. Residual BA = 8 sq ft hemlock, 5 sq ft cedar, 1 sq ft oak.
16	4130 - Aspen	Poletimber Well	7.4	38	81-110	Originally listed on GEM plan for 2052 harvest. This may be too late. Continue to monitor if a sooner harvest is required.
						Following discussion with WLD, it was decided to change the treatment period in plan for this stand to 2027.
17	4131 - Aspen, Oak	Poletimber Poor	15.5	30	Immature	Following discussion with WLD, it was decided to change the treatment period in plan for this stand to 2032.
18	6122 - Black Spruce	Sapling Medium	14.5	43	1-50	
19	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	39.6	75	111-140	Cedar is patchy. There is some spruce and mixed hardwood to harvest in the future. Cedar patches may need to be delineated out if this were to happen.
20	4130 - Aspen	Poletimber Medium	23.3	37	81-110	•
21	4123 - Red Oak	Poletimber Well	63.1	83	81-110	Cut in 2001 16-00 Sand-Cut Collage.
22	42350 - Upland Hemlock	Sawtimber Well	6.7	112	111-140	Decent hemlock regeneration present.
23	42110 - Planted Red Pine	Poletimber Well	10.7	56	111-140	Stand was cut in 2001 with 16-00 Sand-Cut Collage. Also harvested in 2011 - Cowhead Sale This stand would be an excellent candidate in the future to shift red pine acres to a more suitable site within the management area. Stand could be converted to oak.
24	4123 - Red Oak	Sawtimber Well	29.3	81	81-110	Stand is 2 aged. The understory is now a part of the canopy and contains minimal amount of aspen which should be left
25	6132 - Mixed Lowland Forest with Cedar	Sawtimber Well	19.2	95	81-110	
26	4112 - Maple, Beech, Cherry Association	Sawtimber Well	15.7	80	111-140	Stand was cut in 2001 16-00 Sand-Cut Collage. Regeneration is lacking.
27	6132 - Mixed Lowland Forest with Cedar	Poletimber Poor	8.7	70	81-110	
28	4123 - Red Oak	Sawtimber Well	25.5	73	81-110	

s t	Shingleton Mgt. Unit			Report 7	– Forested	Stands Compartment: 90 Year of Entry: 2020
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
29	4191 - Mixed Upland Deciduous with Conifer	Sapling Well	24.6	24	1-50	
30	4134 - Aspen, Spruce/Fir	Poletimber Well	24.5	25	1-50	GEMS treatment scheduled in 2037
31	4319 - Mixed Upland Forest	Poletimber Well	9.0	24	1-50	
32	42380 - Non Pine Upland Conifer, Mixed Deciduous	Poletimber Well	29.9	41	51-80	
33	4139 - Aspen, Mixed Deciduous	Poletimber Well	17.4	22	51-80	creek along western edge
35	6124 - Lowland Spruce- Fir	Sapling Well	16.8	37	1-50	
36	4130 - Aspen	Poletimber Well	7.5	70	111-140	
37	4130 - Aspen	Sapling Well	10.8	22	1-50	
39	6124 - Lowland Spruce- Fir	Sapling Well	6.7	37	1-50	Beaver activity noticed in stand.
40	6132 - Mixed Lowland Forest with Cedar	Sawtimber Well	16.8	95	81-110	
41	6130 - Fir, Aspen, Maple	Sapling Medium	59.6	4	1-50	Cut with Cowhead Sale in 2013. Residual hemlock and cedar was 20 sq. ft.
42	6122 - Black Spruce	Sapling Medium	3.6	5	1-50	Cut in 2013, Cowhead Sale.
43	4130 - Aspen	Poletimber Well	17.7	37	81-110	GEMS treatment 2042
44	4199 - Other Mixed Upland Deciduous	Poletimber Well	4.7	62	81-110	
45	6125 - Lowland Black Spruce, Jack Pine	Poletimber Well	19.0	30	51-80	
46	6130 - Fir, Aspen, Maple	Poletimber Poor	10.0	25	1-50	Beaver flooding
47	42380 - Non Pine Upland Conifer, Mixed Deciduous	Sawtimber Well	38.1	95	111-140	

s t	Shingletor		Report 7	– Forested	Stands Compartment: 90 Year of Entry: 2020	
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
48	429 - Mixed Upland Conifers	Sapling Well	15.3	15	1-50	OPIC - FMD: 12-2-2003 BB] Stand was cut in 2003 16-00 Sand- Cut Collage Was not pure aspen.Stand is a mixture of aspen ridges and swamp conifers in the low areas.GEMS treatment plan is 2052
49	4191 - Mixed Upland Deciduous with Conifer	Sapling Poor	11.6	4	1-50	Treatment from previous YOE: Stand is mostly jack pine. A clone of aspen is present in the east. There are a few small openings located within the stand. Planting may be a better option than scarification. Cut all species except oak and red pine. Acceptable alternative management objectives include a similar mixture of species currently located onsite.
						[4/8/10 bb] Stand is now on proposal 006-10, Lake 13 Sale. Actual stand acres = 10, Unit 1. Residual BA = 1 sq ft oak, FTP C41-1450 submitted for jack pine regen after sale is complete. (7/17/2011 AP) Sale is closed. TCR date 6/20/2011. Stand is on regeneration timeclock. (6/10/2013 AP): Stand was planted in spring of 2013 without
						being trenched. Regeneration count scheduled for spring 2014. Filed count in spring 2014 and stand was trenched and planted. Passed count with 680 planted jack pine and 60 volunteers.
						Stand has fully regenerated to mostly jack pine and other mixed species as original goal was intended. No further cultural work is needed.
50	4130 - Aspen	Sapling Well	17.2	15	1-50	OPIC - FMD: Stand was cut in 2003 16-00 Sand-Cut Collage. Some scattered pine is present. GEMS treatment scheduled in 2047
51	429 - Mixed Upland Conifers	Sawtimber Well	9.9	88	81-110	
52	6120 - Lowland Cedar	Poletimber Well	5.0	98	111-140	
53	4319 - Mixed Upland Forest	Sapling Poor	9.2	4	1-50	Previous treatment: Stand is mostly jack pine. A clone of aspen is present in the east. There are a few small openings located within the stand. Planting may be a better option than scarification. Cut all species except oak and red pine. Acceptable alternative management objectives include a similar mixture of species currently located onsite. [4/8/10 bb] Stand is now on proposal 006-10, Lake 13 Sale. Actual stand acres = 10, Unit 1. Residual BA = 1 sq ft oak, FTP C41-1450 submitted for jack pine regen after sale is complete. (7/17/2011 AP) Sale is closed. TCR date 6/20/2011. Stand is on regeneration timeclock. (6/10/2013 AP): Stand was planted in spring of 2013 without being trenched. Regeneration count scheduled for spring 2014. Filed count in spring 2014 and stand was trenched and planted. Passed count with 680 planted jack pine and 60 volunteers. Stand is now fully regenerated to original prescription. No further cultural work is needed.
54	4130 - Aspen	Poletimber Well	17.2	38	51-80	
55	4130 - Aspen	Poletimber Well	4.0	38	51-80	
56	4123 - Red Oak	Poletimber Medium	1.1	75	1-50	Harvested in fall 2017 with GEMS sale

s t	Shingleton		Report 7	– Forested	Stands Compartment: 90 Year of Entry: 2020	
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
57	6129 - Mixed Coniferous Lowland Forest	Sawtimber Well	20.0	92	111-140	
58	4130 - Aspen	Poletimber Well	20.0	38	81-110	OPIC - FMD: Mostly aspen, but has mixed species including some low pockets.
59	6112 - Lowland Aspen	Sapling Well	4.4	31	1-50	GEMS treatment planned for 2042.
62	4130 - Aspen	Poletimber Well	20.8	38	81-110	GEMS treatment scheduled in 2032
66	4130 - Aspen	Poletimber Well	8.2	40	81-110	2007: Illegal blind located in stand referred to LED. Some jack pine present also. 2017:Ten years later, the same illegal blind is located in the same spot in stand.
67	6121 - Tamarack	Poletimber Medium	12.0	51	1-50	
68	4123 - Red Oak	Sawtimber Well	21.4	81	81-110	Oak was cut in the summer/fall of 2002.
69	4123 - Red Oak	Poletimber Well	10.5	83	81-110	Cut in 2002.
70	6121 - Tamarack	Poletimber Medium	12.6	90	1-50	
71	4130 - Aspen	Poletimber Well	17.7	38	1-50	GEMS treatment period is 2032. Drainage exists along southern boundary which should get looked at prior to harvest.
74	42110 - Planted Red Pine	Poletimber Well	8.2	22	1-50	
75	6122 - Black Spruce	Sapling Well	6.6	46	1-50	mostly unproductive. only merch wood is along edges.
76	6125 - Lowland Black Spruce, Jack Pine	Poletimber Well	11.4	40	51-80	
77	4134 - Aspen, Spruce/Fir	Poletimber Well	19.5	25	1-50	GEMS treatment scheduled in 2047
78	42210 - Natural Red Pine	Sawtimber Well	17.4	84	111-140	
82	4119 - Mixed Northern Hardwoods	Poletimber Well	8.3	78	81-110	
83	42350 - Upland Hemlock	Sawtimber Well	3.2	92	111-140	
84	4311 - Pine, Aspen Mix	Poletimber Well	11.8	40	81-110	GEMS treatment scheduled in 2022.

s t	Shingleton		Report 7	– Forested	Stands Compartment: 90 Year of Entry: 2020	
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
85	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	7.6	56	51-80	
86	6132 - Mixed Lowland Forest with Cedar	Poletimber Well	9.2	95	81-110	
87	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	13.0	43	51-80	
88	4130 - Aspen	Poletimber Well	11.5	38	51-80	
89	4319 - Mixed Upland Forest	Poletimber Well	11.0	38	51-80	
91	6130 - Fir, Aspen, Maple	Poletimber Poor	19.2	25	1-50	GEMS treatment scheduled for 2042
92	4130 - Aspen	Poletimber Well	16.7	38	81-110	OPIC - FMD: Mostly aspen, but has mixed species including some low pockets.
94	6130 - Fir, Aspen, Maple	Poletimber Well	22.8	25	1-50	Originally listed on GEMS plan for harvest in 2032. This may need to be delayed due to wet areas and amount of conifer present.
						Following discussion with WLD, it was decided to change the treatment period in plan for this stand to 2052.
95	4130 - Aspen	Poletimber Well	16.1	38	81-110	Original GEMS treatment period is 2047. This stand will be monitiored in case harvest is needed prior to that.
						Following discussion with WLD, it was decided to change the treatment period in plan for this stand to 2042.
96	4130 - Aspen	Poletimber Well	18.2	38	81-110	GEMS treatment scheduled in 2027
97	4131 - Aspen, Oak	Poletimber Well	11.2	30	51-80	GEMS treatment period is scheduled for 2037. Stand should be ready to harvest then.
99	4319 - Mixed Upland Forest	Poletimber Well	23.8	25	1-50	GEMS treatment period of 2037
101	4134 - Aspen, Spruce/Fir	Poletimber Well	14.9	25	1-50	GEMS treatment scheduled in 2032
102	4131 - Aspen, Oak	Poletimber Well	22.5	40	51-80	GEMS treatment scheduled in 2052
103	4132 - Aspen, Jack Pine	Poletimber Well	22.4	40	81-110	GEMS treatment scheduled in 2027
105	6129 - Mixed Coniferous Lowland Forest	Sawtimber Well	6.6	88	51-80	stand is wet and sparse in areas. operability concerns

S t	Shingleton Mgt. Unit			Report 7	Forested	Stands Compartment: 90 Year of Entry: 2020	STRESOURCE CONTROL
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:),9/
107	4131 - Aspen, Oak	Poletimber Well	23.0	47	81-110		
109	4131 - Aspen, Oak	Poletimber Well	27.5	38	81-110	GEMS treatment scheduled in 2042. This date may need to be moved up sooner, otherwise stand may convert to oak.	_
110	4131 - Aspen, Oak	Poletimber Well	20.8	38	51-80		<u></u>
111	4311 - Pine, Aspen Mix	Poletimber Well	7.8	50	111-140	Originally not in GEMS plan. Since it is 1/2 jack pine and 1/2 aspen, it will likely convert to mostly aspen when harvested.	_
						Following discussion with WLD, it was decided to add a treatmen period of 2022.	t
113	429 - Mixed Upland Conifers	Sapling Well	14.7	15	1-50	OPIC - FMD: 12-2-2003 BB] Stand was cut in 2003 16-00 Sand- Cut Collage Was not pure aspen.	-
						Stand is a mixture of aspen ridges and swamp conifers in the low areas.	,
						GEMS treatment plan is 2042	



Stand	Cover Type	Acres	Managed Site	General Comments:
34	623 - Emergent Wetland	4.0	No	OPIC - FMD: SCA - Potential Old Growth
38	122 - Road/Parking Lot	3.3	No	
60	6224 - Treed Bog	10.3	No	
61	623 - Emergent Wetland	4.4	No	
63	500 - Water	13.7	No	
64	500 - Water	16.2	No	Halfway Lake. Illegal ATV trail which leads to lake has been referred to LED. ORV grants were used to fill trail with slash in summer 2008.
65	622 - Lowland Shrub	1.7	No	
72	6224 - Treed Bog	7.6	No	
73	6224 - Treed Bog	22.3	No	
79	330 - Low-Density Trees	16.4		Harvested with GEMS 2017 sale in fall 2017.
90	122 - Road/Parking Lot	12.9	No	
100	710 - Sand, Soil	21.1	No	
106	623 - Emergent Wetland	3.4	No	
114	623 - Emergent Wetland	1.5	No	OPIC - FMD: Mixture of aspen and jack pine.
404	310 - Herbaceous Openland	21.1	Yes	OPIC - FMD: Filling in with jack pine and aspen. Opening maintenance with handtools.