

## **Compartment Review Presentation**

**Roscommon Forest Management Unit** 

Compartment 143 Entry Year 2016 Acreage: 1,334

**County Roscommon** 

Management Area: Houghton Lake Wetlands

**Revision Date:** 06/30/2014

Stand Examiner: Jason Lewicki

**Legal Description:** 

T21N, R03W section 6 and 7

## **Identified Planning Goals:**

Maintain current age and species diversit in a range of early and late successional ecosystems as determined by the Houghton Lake Wetlands management area plan.

## Soil and topography:

Soils on the uplands consist of Au Gres-Kinross and Au Gres-deford sand complex.

The topography for the compartment is very flat with large wetland areas.

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

The entire compartment and much of the township is under State ownership. There are larger blocks of private ownership on the north end of the compartment. There is a 250 acre parcel that lies just east of the compartment within section 8.

### **Unique Natural Features:**

Part of the Lost Twin Lakes hiking trail lies in the south end of the compartment. Much of the area around the hiking trail is a SCA and type 2 old growth.

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

There are known concerns within the compartment. All proposed management activities have taken these concerns into consideration.

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

Much of the area around the hiking trail is a SCA and type 2 old growth.

## Watershed and Fisheries Considerations:

Pup Creek and Wolf creek flow through this compartment. Pup lake lies on the NE boundry of this compartment.

## Wildlife Habitat Considerations:

## Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of glacial outwash sand and gravel and postglacial alluvium. The glacial drift thickness varies between 600 and 800 feet. Beneath the glacial drift are the Pennsylvanian Grand River and Saginaw Formations. The Saginaw is quarried for clay elsewhere in the State. There are no nearby gravel pits, but there may be potential on the uplands. Headquarters Field is located one mile to the south. The field has produced over 11.3 million BO and 4.2 Bcf gas primarily from the Devonian Richfield Formation, and is in secondary recovery operations currently. The compartment is not currently leased.

### **Vehicle Access:**

Vehicle access is very good on the west side of this compartment off Waco and Newaygo rd. The east side is blocked by lowland areas or private property.

## **Survey Needs:**

None at this time.

## **Recreational Facilities and Opportunities:**

A mixed variety of dispersed activities occur on the land from hiking, to hunting, trapping to disperse snowmobiling. The only designated recreational system is found in the southeast portion of the compartment; Lost Twin Lakes Pathway.

#### **Fire Protection:**

This compartment is predominantly low ground with a couple of stands of pine type cover. There would not normally be much of a fire protection concern here unless in severe drought conditions. Access for fire suppression in the compartment is poor.

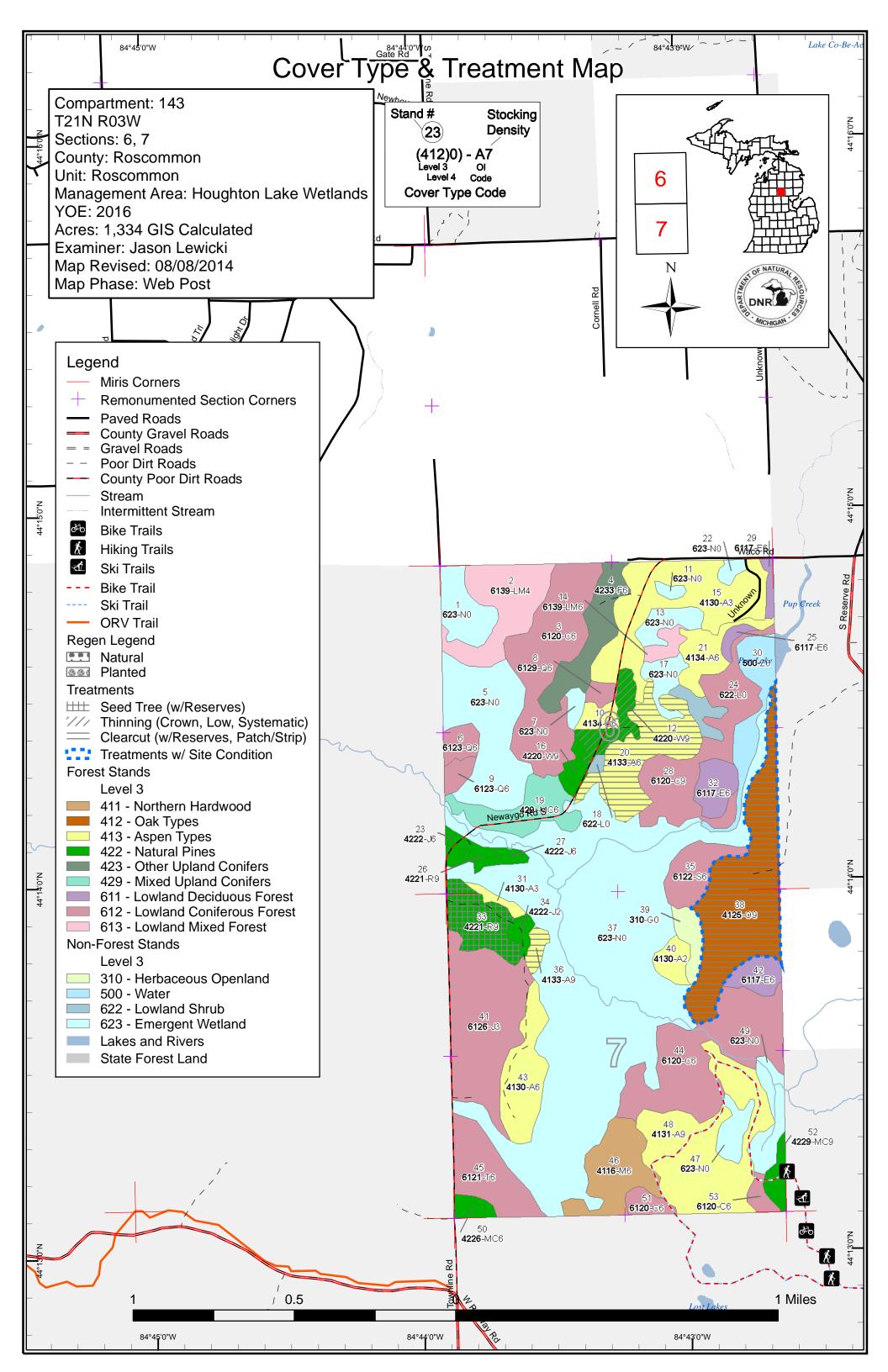
## **Additional Compartment Information:**

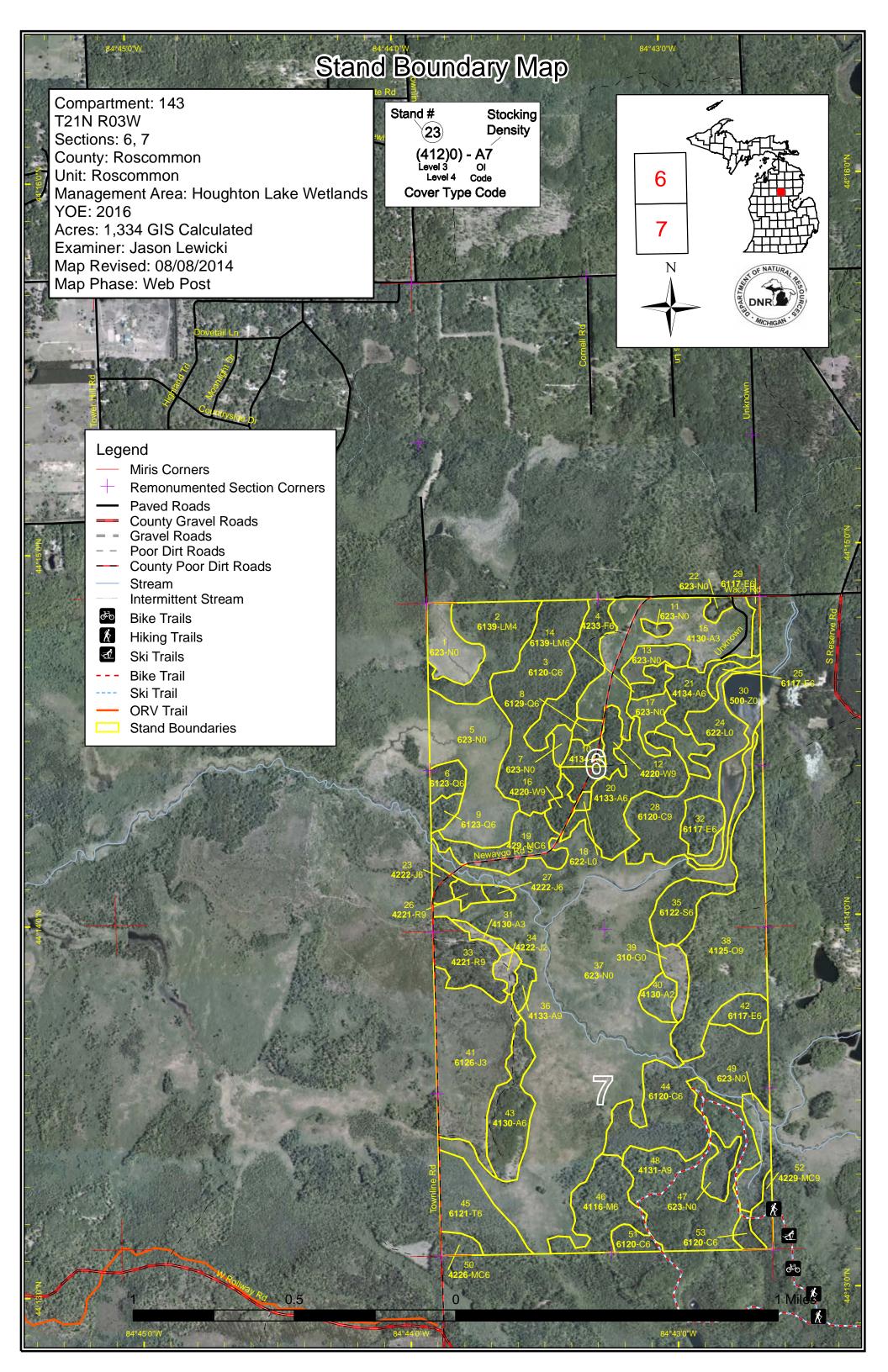
The following reports from the Inventory are attached:

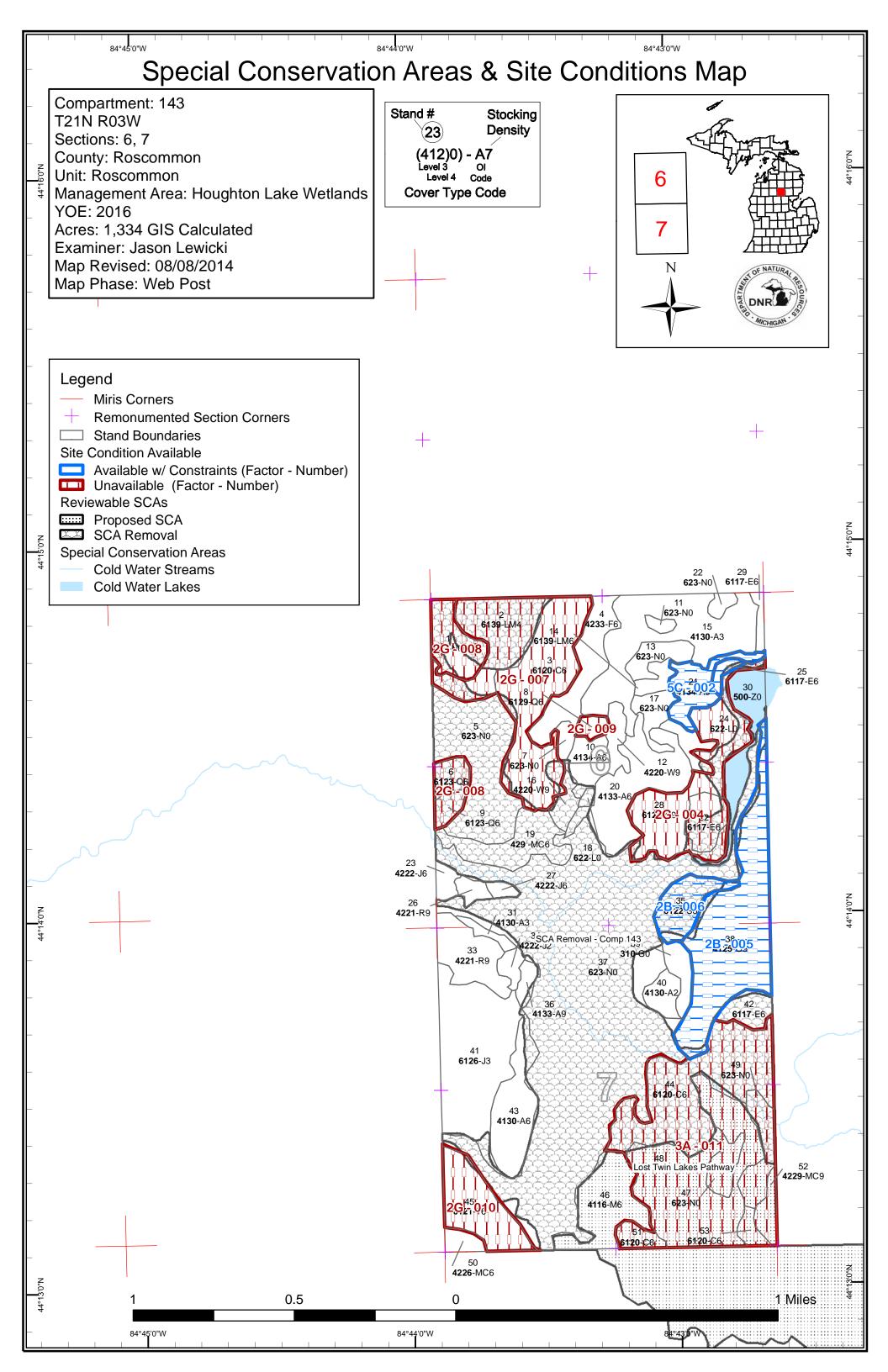
Total Acres by Cover Type and Age Class
Cover Type by Harvest Method
Proposed Treatments – No Limiting Factors
Proposed Treatments – With Limiting Factors
Stand Details (Forested and Nonforested)
Dedicated and Proposed Special Conservation Areas
Site Condition Details

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 143 Year of Entry 2016

Roscommon Mgt. Unit
Jason Lewicki: Examiner

OF NATURAL DISTRICT OF STATE O

#### Age Class

						Age (	Siass									
		8.0	70.70	Parts /	85.05 /	AD AS	\$5.05   \$5.05	80,00	, o ,	\$ 8 P	85.75	00.00	70,70	No X	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	or or
Aspen	60	11	28	6	0	57	4	0	0	70	0	0	0	0	236	ĺ
Cedar	0	0	0	0	0	0	0	0	0	193	0	0	0	0	193	ĺ
Herbaceous Openland	8	0	0	0	0	0	0	0	0	0	0	0	0	0	8	
Jack Pine	0	70	0	0	0	0	7	0	0	0	0	0	0	0	77	
Lowland Conifers	0	0	0	0	0	0	0	16	0	0	0	0	0	0	16	
Lowland Deciduous	0	0	0	0	0	10	18	0	0	0	0	0	0	0	28	
Lowland Mixed Forest	0	0	0	0	0	0	41	0	0	0	0	0	0	0	41	
Lowland Shrub	8	0	0	0	0	0	0	0	0	0	0	0	0	0	8	
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	17	0	0	0	0	0	17	
Marsh	440	0	0	0	0	0	0	0	0	0	0	0	0	0	440	ĺ
Natural Mixed Pines	0	0	0	0	0	0	0	0	5	7	0	0	0	0	12	ĺ
Northern Hardwood	0	0	0	0	0	0	31	0	0	0	0	0	0	0	31	ĺ
Oak	0	0	0	0	0	0	0	0	0	81	0	0	0	0	81	ĺ
Red Pine	0	0	0	0	0	0	4	0	0	22	0	0	0	0	26	ĺ
Tamarack	0	0	0	0	0	0	0	30	0	0	0	0	0	0	30	ĺ
Upland Conifers	0	0	0	0	0	24	0	0	0	0	0	0	0	0	24	
Upland Spruce/Fir	0	0	0	0	0	25	0	0	0	0	0	0	0	0	25	
Water	21	0	0	0	0	0	0	0	0	0	0	0	0	0	21	
White Pine	0	0	0	0	0	0	0	0	0	19	0	0	0	0	19	
Total	538	81	28	6	0	116	106	46	22	391	0	0	0	0	1334	



## **Report 2 – Proposed Treatment Summaries**

Roscommon Mgt. Unit Year of Entry 2016

Compartment 143
Total Compartment Acres: 1,334

## **Acres by Treatment Type**

Commercial Harvest - 162 Tree Planting - 0 Other - 0

Habitat Cut - 0 Opening Maintenance - 0

			Cov	er Ty	pe by I	Harves	st Meth	nod	
		/ (	#15 of	Solo of	LIS S	S. Hornoo	Cincino Sec		Rece .
Aspen Types		46	0	0	0	0	0	46	(
Natural Pines	-	0	0	22	0	13	0	35	
Oak Types		81	0	0	0	0	0	81	
	Total	127	0	22	0	13	0	162	

Roscommon Mgt. Unit

## Report 3 -- Treatments Prescribed with No Limiting Factor

Compartment: 143 Year of Entry 2016 **Approval** 

Status

Cmpt. Review Proposal

a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	
12	71143012-Cut	12.8	42200 - Natural White Pine	High Density Log	95 I	111-140	Harvest	Crown Thinning	4220 - Natural White Pine	

Prescription Thin stand to approximately 100 BA. Focus on improving and expanding crowns. Remove poor formed and heavily suppressed white pine. Allow Specs: more sunlight in to let maple and white pine understory develope. Protect understory during harvest.

<u>Other</u>

S

Comments:

<u>Next</u> Steps:

**Proposed** 

Start Date: 10/01/2015

20 71143020-Cut 41.6 4133 - Aspen, Mixed High 55 81-110 Harvest Clearcut with 413 - Aspen Cmpt. Review Pine Density Reserves Proposal Pole

Prescription Clearcut stand and manage for aspen regeneration. Leave clumps or pockets of aspen for retention. Focus retention pockets where there is thick balsam fir present. Leave 1 brush pile for every 2 acres for snowshoe hare habitat. Place brush piles near conifer swamp edges. Specs:

<u>Other</u>

Comments:

<u>Next</u> Steps:

**Proposed** 

10/01/2015 Start Date:

4221 - Natural Red Seed Tree with 71143033-Cut 22.3 42210 - Natural Red High 90 111-140 Harvest Cmpt. Review 33 Density Log Reserves Proposal

Prescription eed tree harvest stand leaving 5-10 sq ft of residual pine for seed and diversity. Manage for understory oak and pine. Pine understory must be

protected during harvest. Do not allow skidding of tops. High quality utility poles present. Specs:

<u>Other</u>

Comments:

<u>Next</u> Steps:

**Proposed** 

10/01/2015 Start Date:

71143036-Cut 4.3 4133 - Aspen, Mixed High 65 111-140 Harvest Clearcut with 413 - Aspen Cmpt. Review 36 Pine Density Log Reserves Proposal

Prescription Clear cut stand with reserves and manage for aspen. Aspen should fill in completely after harvest. Use some clumps of oak and pine for retretention in areas where aspen is absent and not expected to fill in. Specs:

Other\_ Comments:

<u>Next</u> Steps:

**Proposed** 

10/01/2015 Start Date:

**Total Treatment** 

80.9 Acreage Proposed:

s with a Site Condition Year of Entry 2016 t а **Treatment** Acres CoverType Size Stand BA **Treatment Treatment Cover Type Approval** n Density Name Range Method Objective Status Age Type d 38 71143038-Cut 80.9 4125 - Black, N. Pin High 95 111-Clearcut with 412 - Oak Cmpt. Review Harvest Oak Density Log 140 Reserves Proposal

Report 4 -- Treatments Prescribed

Compartment: 143

Prescription Factor limit stand. Access would have to be created over the old beaver dam crossing or through private property.

Specs: Clearcut stand with reserves by leaving small clumps or groups of oak for seed source. Expand all aspen where possible and leave pine component.

Manage stand for oak and aspen with a small pine component. Possible harvest some adjacent lowland stands.

Other Comment:

Next Steps:

<u>Proposed</u>

Start Date: 10/01/2015

<u>Limiting Factor</u> 2B: Unknown if access through adjacent landowner(s) is possible

Roscommon Mgt. Unit

Total Treatment

Acreage Proposed: 80.9

# Roscommon Mgt. Unit

Jason Lewicki: Examiner

Compartment 143
Year of Entry 2016

Availa	ability for	Management						
Total	Acres	Acres		Domina	nt Site	e Cond	ditions	S
Acres	Available	Not Available		No	5C	3A	2G	2B
235	166	69	Aspen	150	16	69		
191	1	190	Cedar	1		80	111	0
77	77		Jack Pine	77				
16		16	Lowland Conifers				16	
28	16	12	Lowland Deciduous	13		0	12	3
41	5	36	Lowland Mixed Forest	5			36	
17	17		Lowland Spruce/Fir	0				17
12	5	7	Natural Mixed Pines	5		7	0	
31	31	0	Northern Hardwood	31		0		
81	81		Oak	1				80
26	26		Red Pine	26				
30		30	Tamarack				30	
24	24		Upland Conifers	24				
25	25		Upland Spruce/Fir	25				
19	19		White Pine	19				
852	492	360	Total Forested Acres	376	16	156	204	100
	58%	42%	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.

	Dominant Site ond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
002	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	16				
С	omments:						
004	Not Available	2G: Too wet (sensitive soils, does not include access issues)	61				
004 <b>C</b>	Not Available	soils, does not include	61				

# Report 5 – Site Conditions

Roscommon Mgt. Unit

Jason Lewicki: Examiner

Compartment 143
Year of Entry 2016

005	Available	2B: Unknown if access through adjacent landowner(s) is possible	84	2C: Engineered Bridge Needed (Dept. portable bridge not available or inadequate)		
C	Comments:					
006	Available	2B: Unknown if access through adjacent landowner(s) is possible	17	2C: Engineered Bridge Needed (Dept. portable bridge not available or inadequate)	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	
	Comments:	ortions of stand if access is gai	ned for	adiacont oak stand		
	ossibly harvest po	ortions of stand if access is gain	neu ioi	aujaceni oak sianu.		
007	Not Available	2G: Too wet (sensitive soils, does not include access issues)	100			
C	Comments:					
800	Not Available	2G: Too wet (sensitive soils, does not include access issues)	31			
C	Comments:					
009	Not Available	2G: Too wet (sensitive soils, does not include access issues)	4			
C	Comments:					

# Report 5 – Site Conditions

Roscommon Mgt. Unit

Jason Lewicki: Examiner

Compartment 143
Year of Entry 2016

010	Not Available	2G: Too wet (sensitive soils, does not include access issues)	31	
C	omments:			
011	Not Available	3A: Potential old growth / biodiversity	180	
	omments:			

on Mgt. Unit Compartment: 143
Year of Entry: 2016



## Report 6 - 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
Lost Twin Lakes Pathway Comments	Visual Management Area	Recreational/Scenic Value Area	SCA	308.0
SCA Removal - Comp 143 Comments No longer meets criteria for a	Other SCA		SCA Removal	587.3

Roscommon Mgt. Unit Compartment: 143
Year of Entry 2016



## Report 7 – 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 Area	Туре	Description	ERA = Ecological Reference Area HCVA = High Conservation Value Area SCA = Special Conservation Area
SCA Archa	aeological Site	An aquatic or terrestrial area of the State that contains physical resites of cultural and historical significance that may occur upon to bottomlands. They include thousands of Native American settlem and British outposts, nineteenth century logging camps, mines at the Great Lakes, there are shipwrecks and other remains documbe identified by Natural heritage data from the State Historic Presthis compartment will be implemented in such a manner as to matthe sensitive nature of this information, no further detail about local	errestrial areas and Great Lakes ents and burial sites, as well as French and homesteads. Beneath the waters of enting the maritime trade. Such sites may servation Office. Proposed treatments in aintain the integrity of these sites. Due to
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 6	es to persist from year to year. Suitable y are relatively deep, have substantial the state. Such lakes are established by
	d Water Stream	A coldwater stream has temperature and dissolved oxygen condistocked trout populations and those of other coldwater fish specified 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

s t	Roscommon	n Mgt. Unit		Report 8	– Forested	Stands Compartment: 143 Year of Entry: 2016
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
2	6139 - Mixed Lowland Forest	Low Density Pole	36.0	65		
3	6120 - Lowland Cedar	High Density Pole	63.9	90	141-170	
4	42330 - Upland Fir	High Density Pole	25.2	50	81-110	Stand of primarily upland fir with some red maple and aspen mixed in. Aspen is primarily found on east edge and in some scattered interior locations.
6	6123 - Lowland Fir	High Density Pole	7.1	75	51-80	
8	6129 - Mixed Coniferous Lowland Forest	High Density Pole	3.8	75	1-50	Small upland area on the north end.
9	6123 - Lowland Fir	High Density Pole	5.0	75	81-110	
10	4134 - Aspen, Spruce/Fir	High Density Pole	5.9	35	51-80	
12	42200 - Natural White Pine	High Density Log	12.8	95	111-140	High quality natural white pine stand. This stand was thinned 2 entries ago. BA's range from 70-190. 6 plots taken, 130 BA average.
14	6139 - Mixed Lowland Forest	High Density Pole	5.4	65		
15	4130 - Aspen	High Density Sapling	59.8	7		Harvested in 2007
16	42200 - Natural White Pine	High Density Log	6.0	95	81-110	Old sawtimber white pine that has been heavily weeviled in the past. Some scattered maple and aspen. BAlsam understory.
19	429 - Mixed Upland Conifers	High Density Pole	24.1	50	1-50	Small variable stand. A mix of everything. Some low pockets with tag alder  Old foundation present. Historical site along the bank of Pup Creek.
20	4133 - Aspen, Mixed Pine	High Density Pole	41.6	55	81-110	Aspen stand with heavy amounts of balsam fir and white pine. Balsam fir and white pine are in various levels of the canopy and understory. Hold for 10 years.
21	4134 - Aspen, Spruce/Fir	High Density Pole	15.7	55	81-110	Mixed stand of aspen, red maple and balsam fir. Hold for 10 years for habitat.
23	42220 - Natural Jack Pine	High Density Pole	4.3	65	111-140	SCA
25	6117 - Lowland Deciduous, Mixed Coniferous	High Density Pole	3.0	65	51-80	

s t	Roscommor	n Mgt. Unit		Report 8	– Forested	Stands Compartment: 143 Year of Entry: 2016
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
26	42210 - Natural Red Pine	High Density Log	4.1	65	200+	Small stand of natural red pine. SCA
27	42220 - Natural Jack Pine	High Density Pole	2.7	65	51-80	SCA
28	6120 - Lowland Cedar	High Density Log	48.6	90	111-140	
29	6117 - Lowland Deciduous, Mixed Coniferous	High Density Pole	3.1	65	81-110	Part of a larger stand in the compartment to the east. Lowland aspen stand with pockets of dead black ash. Operable under the right conditions.
31	4130 - Aspen	High Density Sapling	3.2	16		
32	6117 - Lowland Deciduous, Mixed Coniferous	High Density Pole	12.1	65		SCA
33	42210 - Natural Red Pine	High Density Log	22.3	90	111-140	90 year old red pine stand that was thinned 2 entries ago. Stand has a good understory of oak and pine, even decent amounts of red pine. High quality pine site.
34	42220 - Natural Jack Pine	Medium Density	4.4	16		
35	6122 - Black Spruce	High Density Pole	17.3	80	111-140	Operable under right conditions. Difficult access.
36	4133 - Aspen, Mixed Pine	High Density Log	4.3	65	111-140	Mixed stand of old black oak along with some bigtooth aspen and white pine. Black oak is of a older age class and is over mature and in decline.
38	4125 - Black, N. Pin Oak	High Density Log	80.9	95	111-140	Mature black oak stand mixed with aspen and white oak. Some red maple mixed in. Scattered red pine in canopy. Variable height understory of white pine. Stand is found on rolling hills and ridges and is blocked/landlocked by PVT property and a creek and beaver dam.
40	4130 - Aspen	Medium Density	7.7	17	51-80	
41	6126 - Lowland Jack Pine	High Density Sapling	65.3	14		High water table jack pine that was harvested in 1998 and seeded. Pocket of aspen on the south end.
42	6117 - Lowland Deciduous, Mixed Coniferous	High Density Pole	9.8	55	51-80	Some areas could potentially be harvested under the right conditions. Appears to be the wettes on the north edge along oak stand.
43	4130 - Aspen	High Density Pole	28.3	22	81-110	

S t	Roscommo	n Mgt. Unit		Report 8	– Forested S	Stands	Compartment: 143 Year of Entry: 2016	DNR
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range		General Comments:	M/CHIGAN . 8
44	6120 - Lowland Cedar	High Density Pole	69.7	95	111-140			
45	6121 - Tamarack	High Density Pole	29.9	75				
46	4116 - Mixed N. Hardwood - Aspen	High Density Pole	31.0	60	81-110	VAriable und	e stand of red maple mixed with so lerstory of white ppine. Heavier w it on SE side where its higher and	hite pine
48	4131 - Aspen, Oak	High Density Log	69.6	95	111-140	S	CA. Lost Twin Lakes Foot Trail.	
50	42260 - Natural Pine, Mixed Deciduous	High Density Pole	5.0	82	141-170	Mixed aspe	n and white pine stand. Manage was compartment to the south.	vith the
51	6120 - Lowland Cedar	High Density Pole	6.0	90	51-80			
52	42290 - Natural Mixed Pine	High Density Log	6.6	95	111-140	SCA. I	ost twin lakes pathway bisects sta	and.

High Density Pole

4.3

95

81-110

SCA, lost twin lakes pathway SCA.

6120 - Lowland Cedar

53

Compartment: 143 Year of Entry: 2016



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:	MICHIGAN
1	6239 - Mixed Emergent Wetland	18.3	No	Unspecified		
5	6239 - Mixed Emergent Wetland	55.5	No	Unspecified		
7	6239 - Mixed Emergent Wetland	3.6	No	Unspecified		
11	6239 - Mixed Emergent Wetland	2.2	No	Unspecified		
13	6239 - Mixed Emergent Wetland	9.5	No	Unspecified		
17	6239 - Mixed Emergent Wetland	8.8	No	Unspecified		
18	6229 - Mixed lowland shrub	1.4	No	Unspecified		
22	6239 - Mixed Emergent Wetland	3.1	No	Unspecified		
24	6229 - Mixed lowland shrub	7.0	No	Unspecified		
30	50 - Water	21.3	No	Unspecified		
37	6239 - Mixed Emergent Wetland	315.8	Yes	Unspecified		
39	3102 - Grass	8.4	No	Unspecified		
47	6239 - Mixed Emergent Wetland	9.1	No	Unspecified		
49	6239 - Mixed Emergent Wetland	14.3	No	Unspecified		