

# **Compartment Review Presentation**

**Roscommon Forest Management Unit** 

Compartment 71002 Entry Year 2020 Acreage: 504

**County Roscommon** 

Management Area: Upper Muskegon

**Revision Date:** 2018-07-25

Stand Examiner: Brian Martell

**Legal Description:** 

T24N R04W, Sec. 3, 10, and 15.

# **Identified Planning Goals:**

Vegetation management in the Upper Muskegon management area (MA) will provide forest products; maintain or enhance wildlife habitat; protect areas of unique threatened, endangered and special concern species; and provide for forest-based recreational uses. Timber management for this 10-year period will focus on harvesting older jack pine and balancing age class distributions of oak, aspen and red pine. Wildlife habitat management objectives include perpetuating early-successional communities for species adapted to young forests for hunting and other wildlife-related recreation. Expected trends within this 10-year planning period are the need to manage exotic species (especially Phragmites and glossy buckthorn), the need to continue to manage cover types for a balanced age-class distribution and an expected increase in recreation pressure.

### Soil and topography:

Topography is generally flat with large lowland forested and non-forested wetland areas in the north. Soils range from various sands on the uplands to muck on the lowlands.

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

This compartment is made up of primarily large blocks of state owned land between US-127 and Old-27 with a Lyons Township park in between. The area was subdivided for development in the early 1900's and there are some remnant lots of private land from that within.

# **Unique Natural Features:**

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

Section 3 has some archeological occurrences that may or may not be within the compartment.

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

#### Watershed and Fisheries Considerations:

Big Creek runs through the compartment and feeds into Higgins Lake just to the east.

#### Wildlife Habitat Considerations:

This narrow compartment contains some good quality oak stands that provide mast for deer and turkey. Although hunting is possible within the compartment, other recreational uses such and on and off-trail hiking are more significant. A cedar swamp which lies in the north portion of the compartment provides winter thermal cover for deer and other wildlife species. Black bear travel through this corridor and are often reported in the neighborhoods to the east.

## Mineral Resource and Development Concerns and/or Restrictions

Active sand/gravel pits are located in the area, and there is good sand & gravel potential within the compartment on the uplands. The East Norwich and Beaver Creek oil fields are both within two miles of the compartment. Both fields are in secondary recovery operations currently. State-owned mineral rights within and around the compartment are currently leased for oil and gas exploration and development. Marathon holds these leases and they have been divesting of their interests in the state. There is no known metallic mineral potential in this part of the state.

#### **Vehicle Access:**

Vehicle access is good on the uplands with multiple roads coming off of Old-27. There is no vehicle access in the lowlands at the north end of the compartment.

# **Survey Needs:**

Surveys are needed for stands with small private inholdings for the subdividing done in the early 1900's.

# **Recreational Facilities and Opportunities:**

There are no designated recreation trails within the compartment. However, due to the proximity of private land and recreation associated with Park 27 some user created trails exists within the compartment. There is a land-use permit for a ski trail that loops south from the Lyons Township park. Some hunting or trapping may occur but is limited by the narrow corridor between US-127 and OLD US-27.(A. 2018)

#### **Fire Protection:**

Compartment is bordered by expressway and major black top road and is predominantly hardwoods and is not a high risk compartment for wild fire.

## **Additional Compartment Information:**

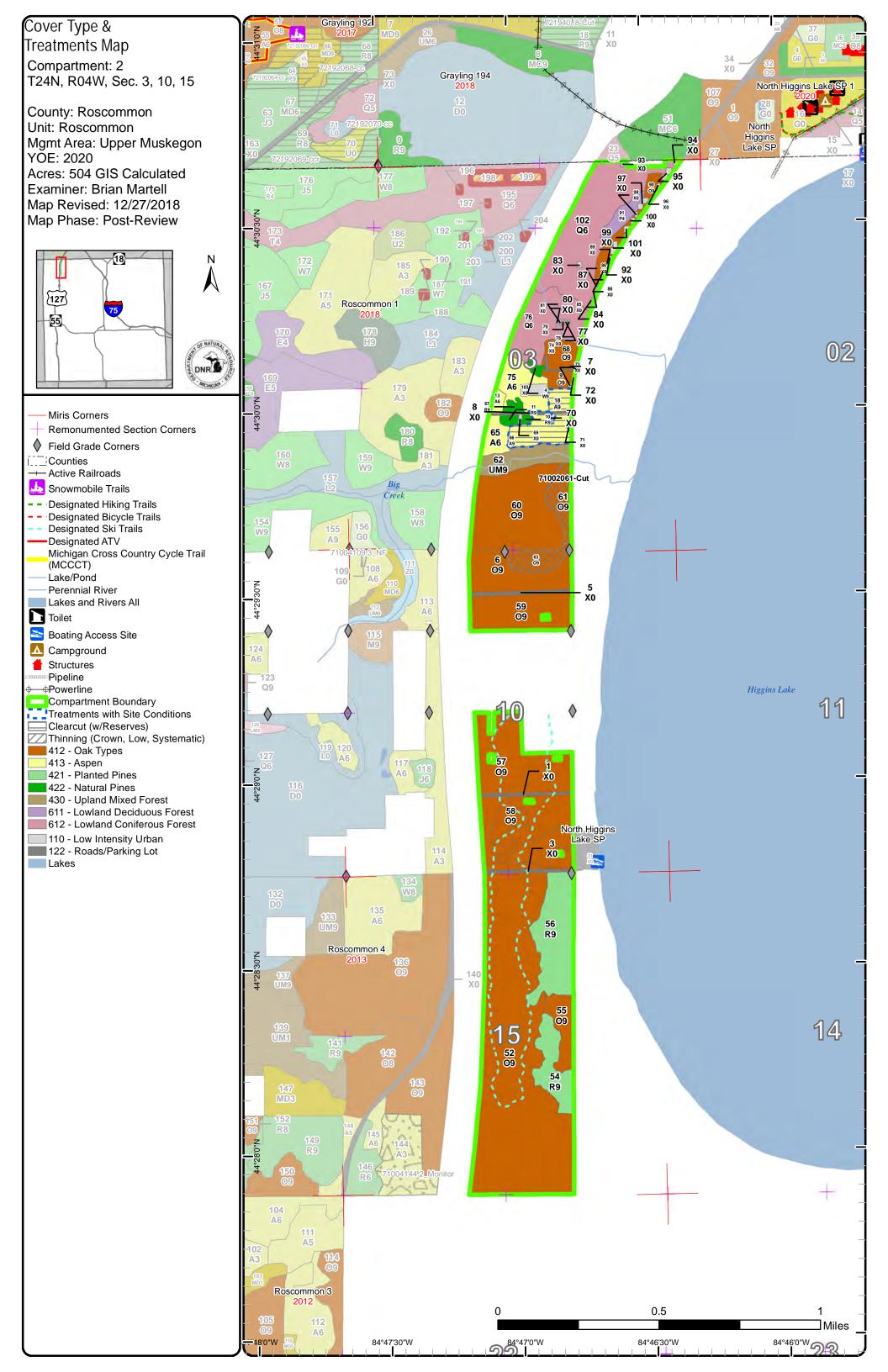
This compartment is made up of parts of old compartments 18, 19, and 20.

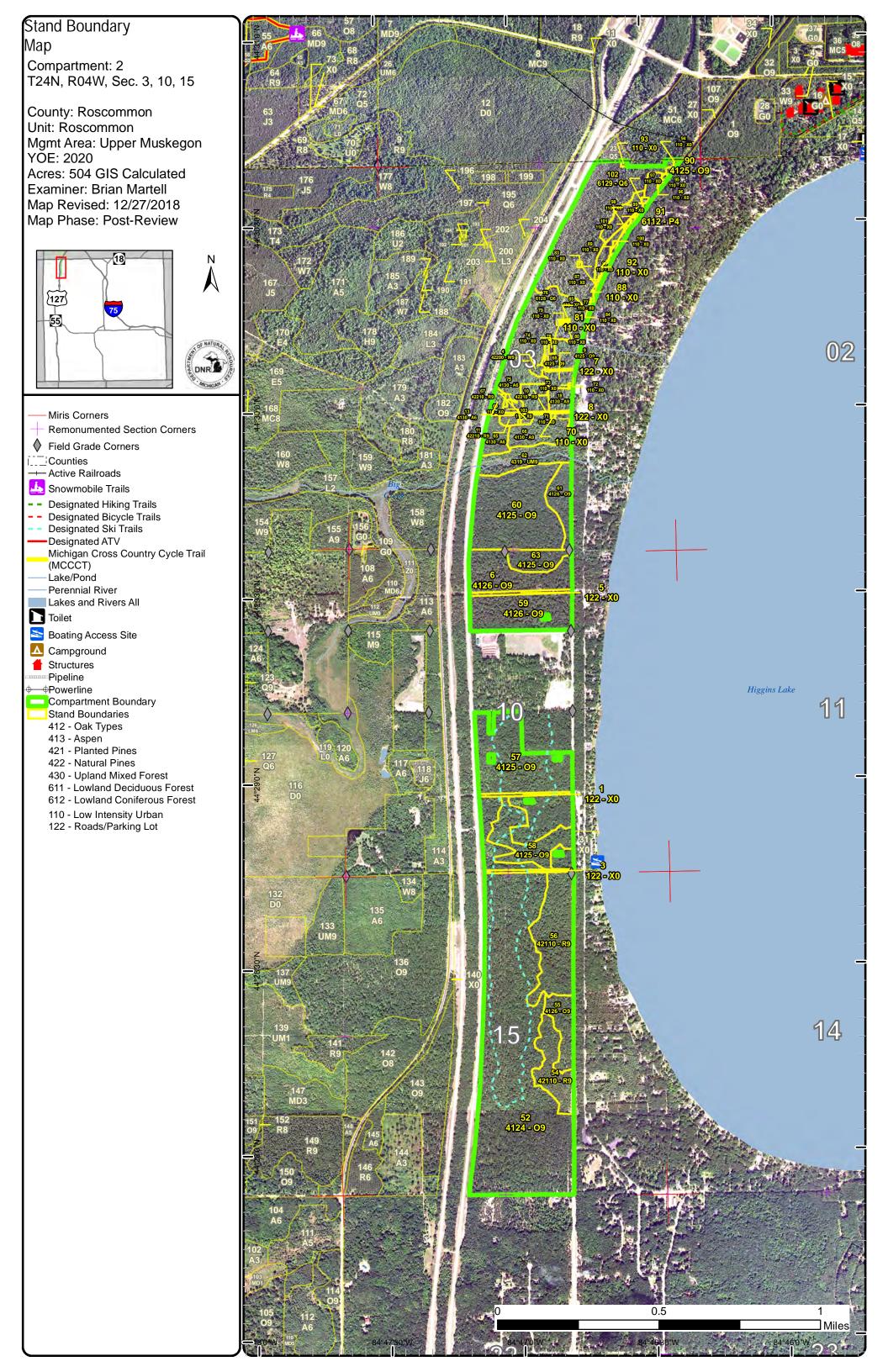
# The following reports from the Inventory are attached:

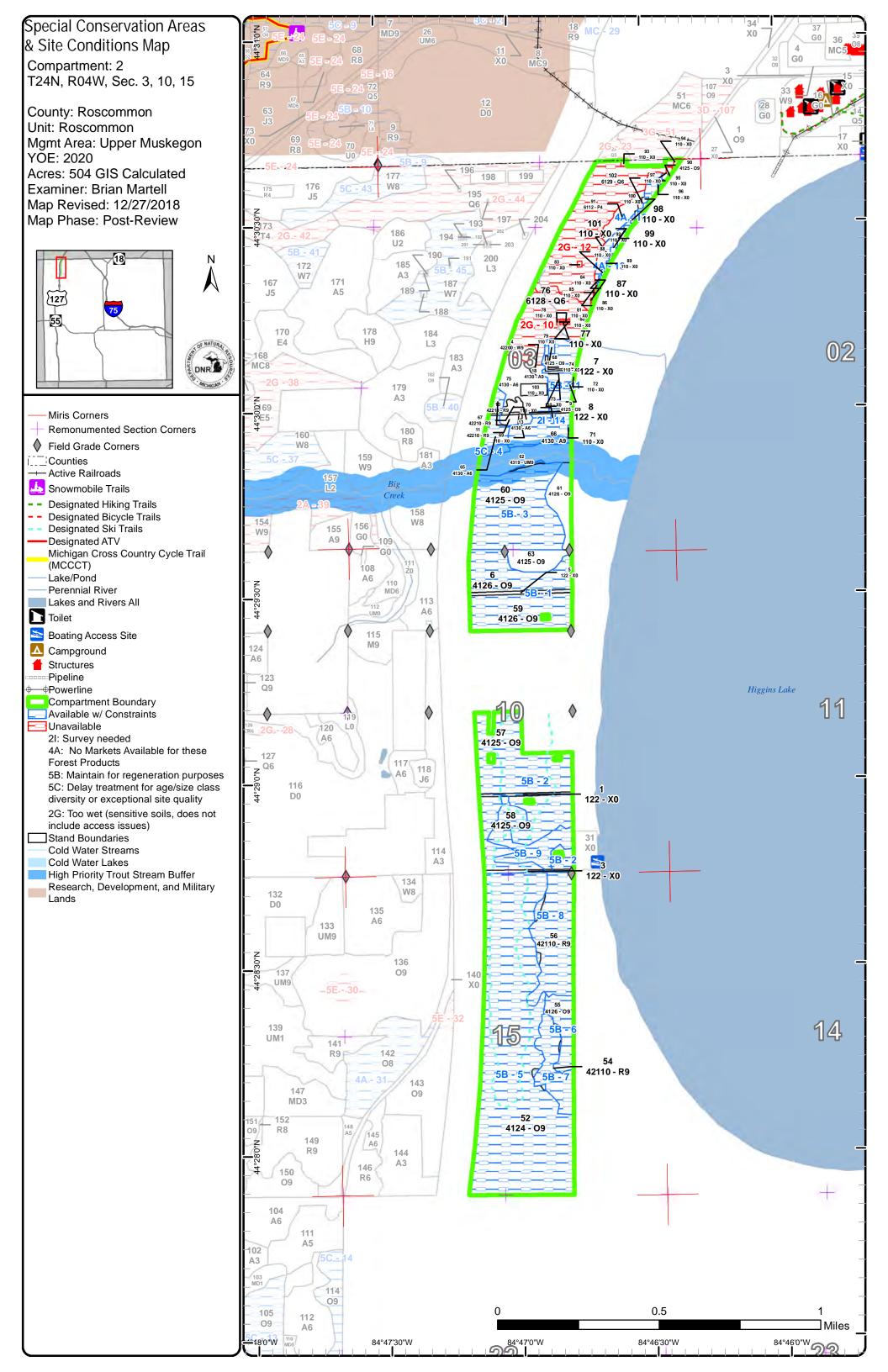
Total Acres by Cover Type and Age Class
Cover Type by Harvest Method
Proposed Treatments – No Limiting Factors
Proposed Treatments – With Limiting Factors
Stand Details (Forested and Nonforested)
Dedicated and Proposed Special Conservation Areas
Site Condition Details

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







Roscommon Mgt. Unit
Brian Martell : Examiner

Compartment 2

Year of Entry 2020



Age Class

	₹¢¢	A STANCE OF THE	30/5	\$ 0°		3 / 15	10 CO	\$     	\$ / K	<u>^</u>		8 /8	00,00,00,000	, , , , , , , , , , , , , , , , , , ,	, &	85.75 K	J. Las.	St Jule	N. N
Aspen	0	0	0	10	0	0	7	0	0	0	0	0	14	0	0	0	0	0	31
Lowland Aspen/Balsam Poplar	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	4
Lowland Conifers	0	0	0	0	0	0	0	0	0	0	0	23	45	0	0	0	0	0	67
Oak	0	0	0	0	0	0	0	0	0	0	0	0	325	8	0	0	0	0	333
Red Pine	0	0	0	0	0	0	0	0	0	0	40	0	3	0	0	0	0	0	43
Upland Mixed Forest	0	0	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	12
Urban	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13
White Pine	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
Total	13	0	0	10	0	0	7	1	5	0	40	23	399	8	0	0	0	0	504



# **Report 2 – Treatment Summary**

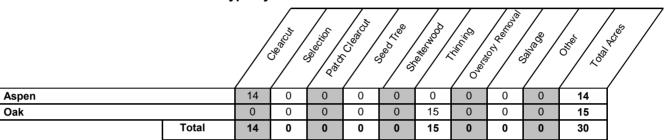
# Roscommon Mgt. Unit Year of Entry: 2020

#### **Acres of Harvest**

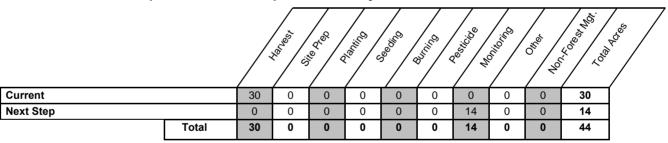
Compartment 2
Total Compartment Acres: 504

Commercial Harvest - 15
Harvests with Site Condition - 14
Next Step Harvest - 0
Habitat Cut - 0

# **Cover Type by Harvest Method**



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



Roscommon Mgt. Unit Report 3 -- 7

S t a Report 3 -- Treatments Compartment: 2
Year of Entry: 20

Compartment: 2
Year of Entry: 2020

a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
61	71002061-Cut	8.3	4126 - White, Black, N. Pin Oak	Sawtimber Well	120	111- 140	Harvest	Crown Thinning	4122 - Oak, Pine	Even-Aged	Draft Field Boundary

Habitat Cut: No Site Condition:

Prescription Thin down to BA of 60-80 ft^2/ac. Take out suppressed and poor form trees first then mark for spacing. Protect white pine and red maple sapling

Specs: regeneration.

Next Step Treatments:

Acceptable Regen:

Other Treat with stand 63 to the south.

Comment:

Proposed Start Date: 10/1 /2019

63 71002063-Cut 7.1 4125 - Black, N. Pin Sawtimber 110 111- Harvest Crown Thinning 412 - Oak Types Even-Aged Draft Field Boundary

Habitat Cut: No Site Condition:

Prescription Thin down to a BA of 60-80 ft^2/ac. Take out suppressed and poor form trees first, then mark for spacing. Protect white pine and red maple

Specs: advanced regeneration where possible.

Next Step Treatments:

Acceptable Regen:

Other Treat with stand 61 to the north.

Comment:

Proposed Start Date: 10/1 /2019

66 71002066-Cut 14.3 4130 - Aspen Sawtimber 110 81-110 Harvest Clearcut 413 - Aspen Even-Aged Draft Field Boundary

Habitat Cut: No Site Condition: Survey Needed

29.7

Prescription Clearcut all trees 2 in DBH and larger. No retention due to small stand size and old age/deteriorating trees. Include drumming log spec for

Specs: grouse.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen at acceptable stocking levels and a combination of red maple and white pine.

Regen:

Other Comment:

Proposed Start Date: 10/1 /2019

Total Treatment Acreage Proposed: Roscommon Mgt. Unit

Compartment: 2 Year of Entry: 2020 **Brian Martell: Examiner** 

Availa	ability for	Managemer	nt						
Total	Acres	Acres Avail	Acres	De	omina	nt Site	Cond	litions	S
Acres	Available	With Condition	Not Available		21	4A	5B	5C	2G
31	0	31	0	Aspen	24			7	
5	5	0	0	Lowland Aspen/Balsam Poplar					
68	0	0	68	Lowland Conifers					68
333	15	317	0	Oak		7	310		
43	3	40	0	Red Pine			40		
12	0	12	0	Upland Mixed Forest			12		
12	5	7	0	Urban	1		6	1	
1	1	0	0	White Pine					
503	29	406	68	Total Forested Acres	24	7	367	8	68
	6%	81%	14%	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	5B: Maintain for regeneration purposes	44	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
2	Available	5B: Maintain for regeneration purposes	62	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
3	Available	5B: Maintain for regeneration purposes	41	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
1001	2019 10:27:22 AM Pag						TONELL

# Report 4 – Site Conditions

Roscommon Mgt. Unit Brian Martell : Examiner Compartment: 2 Year of Entry: 2020

4	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	7	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
5	Available	5B: Maintain for regeneration purposes	134	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
6	Available	5B: Maintain for regeneration purposes	9	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
7	Available	5B: Maintain for regeneration purposes	13	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
8	Available	5B: Maintain for regeneration purposes	28	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
9	Available	5B: Maintain for regeneration purposes	16	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						

# Report 4 – Site Conditions

Roscommon Mgt. Unit

Compartment: 2 Year of Entry: 2020 **Brian Martell : Examiner** 

10	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	23	Unspecified	Unspecified	Unspecified	Unspecified
С	omments:						
11	Available	5B: Maintain for regeneration purposes	9	Unspecified	Unspecified	Unspecified	Unspecified
С	omments:						
12	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	44	Unspecified	Unspecified	Unspecified	Unspecified
С	omments:						
13	Available	4A: No Markets Available for these Forest Products	7	Unspecified	Unspecified	Unspecified	Unspecified
	omments: mall stand to thin	on its own. No good way to get	trucks ir	n and out from Old-27.			
14	Available	2I: Survey needed	14	Unspecified	Unspecified	Unspecified	Unspecified
С	omments:						

12/28/2018 10:37:42 AM - Page 3 of 3 TONELLOM1 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				

Roscommon Mgt. Unit Compartment: 2
Year of Entry 2020



# Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

\* This is a list of SCA's for this compartment along with a 1/4 mile buffer surrounding the compartment. Refer to the Special Conservation Area Map for locations of the below listed Conservation Areas.

Conservati Area	on Type	Description	ERA = Ecological Reference Area HCVA = High Conservation Value Area SCA = Special Conservation Area					
SCA	Cold Water Lake	A coldwater lake has temperature and dissolved oxygen conditions that allow naturally-reproduced stocked trout populations and those of other coldwater fish species to persist from year to year. Su conditions for coldwater fishes may occur in Michigan lakes if they are relatively deep, have substated groundwater inflows, or are located in colder (northern) areas of the state. Such lakes are establish Director's action and designated as trout resources by Fisheries Order 200.						
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen cond stocked 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.	ies (e.g., slimy sculpin) to persist from ese 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 12,00 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 effe as aesthetics, habitat, bank stability, timber production, and their	e unique conditions adjacent to lakes, diversity of plants and wildlife. Riparian cts on water quality and quantity, as well					

s t	Roscommon	Mgt. Unit		Report 7	<ul><li>Forested</li></ul>	Stands Compartment: 2 Year of Entry: 2020
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
4	42200 - Natural White Pine	Sawtimber Well	1.1	60	141-170	Small stand of good quality white pine.
6	4126 - White, Black, N. Pin Oak	Sawtimber Well	19.1	110	81-110	Mixed oak stand that was thinned in 1996. Heavy aspen and red maple understory with some good white oak saplings. Some areas of bigtooth aspen from harvest. Some very large good quality red oak.
9	4125 - Black, N. Pin Oak	Sawtimber Well	3.0	110	111-140	Oak dominated mixed stand. There appears to be an older age of oak present with large mast producing log trees.
10	42210 - Natural Red Pine	Sawtimber Well	0.6	110	171-200	Large natural grown red pine. OPIC - FMD: Natural Red Pine. Lines for small private inholdings need to be verified.
11	42210 - Natural Red Pine	Sawtimber Well	1.2	110	171-200	Large natural grown red pine. OPIC - FMD: Natural Red Pine. Lines for small private inholdings need to be verified.
13	4130 - Aspen	Poletimber Well	1.7	53		Good quality bigtooth aspen just getting into the log stage. Could hold one more rotation if needed.
18	4130 - Aspen	Sawtimber Well	3.3	110	81-110	Mixed upland stand dominated by large, deteriorating bigtooth aspen.
52	4124 - Red with White Oak	Sawtimber Well	134.9	110	81-110	Stand was thinned in 2013. Red oak dominated mixed with white pine that is partially in the canopy and partially suppressed. White pine was planted in 1922. Approximately half of the stand was species thinned of red maple and aspen in 1993. Informal cross country ski trail runs through the stand from north to south.
54	42110 - Planted Red Pine	Sawtimber Well	13.2	96	141-170	Plantation from 1922. High density red pine stand with heavy red maple understory. The northern portion of the stand has areas with large log and x-log oaks and white pine. Stand is along old 27.
55	4126 - White, Black, N. Pin Oak	Sawtimber Well	9.1	110	81-110	Stand treated with adjacent oak stand in 2013. Mixed oak stand with planted red pine throughout.
56	42110 - Planted Red Pine	Sawtimber Well	26.7	96	111-140	About 100 year old plantation with heavy aspen and oak in the understory. In the southwest portion of the stand oak is more prevalent in the canopy. Stand is along old 27 and close to Higgins lake.
57	4125 - Black, N. Pin Oak	Sawtimber Well	59.5	110	81-110	Decent oak site with heavy red maple understory. Stand was thinned in 1984. Some areas of scattered white pine. A pocket at the west end of stand looks to be untreated.
58	4125 - Black, N. Pin Oak	Sawtimber Well	15.6	110	51-80	Mixed oak comprises most of the canopy with bigtooth aspen poles regenerating underneath.

s t	Roscommon	Mgt. Unit		Report 7	- Forested	Stands Compartment: 2 Year of Entry: 2020
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
59	4126 - White, Black, N. Pin Oak	Sawtimber Well	22.8	110	81-110	Mixed oak stand that was thinned in 1996. Heavy aspen and red maple understory with some good white oak saplings. Some areas of bigtooth aspen from harvest. Some very large good quality red oak.
60	4125 - Black, N. Pin Oak	Sawtimber Well	40.5	115	81-110	Large diameter, good quality hybrid oak stand with heavy white pine, red maple, and bigtooth aspen understory. Heavier amounts of white pine towards the northern edge of the stand.
61	4126 - White, Black, N. Pin Oak	Sawtimber Well	8.3	120	111-140	Good quality hybrid oak mixed with white oak. High density variable height white pine understory.
62	4319 - Mixed Upland Forest	Sawtimber Well	11.5	115	81-110	Big Creek runs through the stand. White pine dominated canopy with a number of species mixed in. Heavier pockets of aspen in the overstory towards the eastern portion of the stand. Heavy balsam fir understory.
63	4125 - Black, N. Pin Oak	Sawtimber Well	7.1	110	111-140	Red and white oak stand that appears to have never been treated. Red and white oak are large with good form. Some red maple and large bigtooth aspen mixed in. Good amounts of white oak in understory.
65	4130 - Aspen	Poletimber Well	5.3	53		Good quality bigtooth aspen just getting into the log stage. Could hold one more rotation if needed.
66	4130 - Aspen	Sawtimber Well	10.5	110	81-110	Mixed upland stand dominated by large, deteriorating bigtooth aspen.
67	42210 - Natural Red Pine	Sawtimber Well	1.4	110	171-200	Large natural grown red pine. OPIC - FMD: Natural Red Pine. Lines for small private inholdings need to be verified.
68	4125 - Black, N. Pin Oak	Sawtimber Well	5.5	110	111-140	Oak dominated mixed stand. There appears to be an older age of oak present with large mast producing log trees.
75	4130 - Aspen	Poletimber Well	10.0	27		Bigtooth aspen that has just reached pole size, white pine and balsam mixed in especially in the north portion. A couple low swales through the center of the stand.
76	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	23.3	103	51-80	
90	4125 - Black, N. Pin Oak	Sawtimber Well	7.2	115	141-170	High density oak stand between old 27 and the lowland stands.
91	6112 - Lowland Aspen	Poletimber Poor	4.5	79	1-50	
102	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	44.5	110	Unspecified	

Compartment: 2 Year of Entry: 2020



Stand	Cover Type	Acres	Managed Site	General Comments:
1	122 - Road/Parking Lot	1.6	No	Road with powerline ROW cleared.
3	122 - Road/Parking Lot	1.6	No	Road with cleared powerline ROW on one side.
5	122 - Road/Parking Lot	1.9	No	Road with cleared powerline ROW
7	122 - Road/Parking Lot	0.5	No	Road with powerline.
8	122 - Road/Parking Lot	1.1	No	Road with powerline.
69	110 - Low Intensity Urban	0.2	No	This stand needs to have the ownership further evaluated and a survey completed.
70	110 - Low Intensity Urban	0.2	No	This stand needs to have the ownership further evaluated and a survey completed.
71	110 - Low Intensity Urban	0.1	No	This stand needs to have the ownership further evaluated and a survey completed.
72	110 - Low Intensity Urban	0.0	No	This stand needs to have the ownership further evaluated and a survey completed.
73	110 - Low Intensity Urban	0.1	No	This stand needs to have the ownership further evaluated and a survey completed.
74	110 - Low Intensity Urban	0.4	No	This stand needs to have the ownership further evaluated and a survey completed.
77	110 - Low Intensity Urban	0.1	No	This stand needs to have the ownership further evaluated and a survey completed.
78	110 - Low Intensity Urban	0.1	No	This stand needs to have the ownership further evaluated and a survey completed.
79	110 - Low Intensity Urban	0.1	No	This stand needs to have the ownership further evaluated and a survey completed.
80	110 - Low Intensity Urban	0.1	No	This stand needs to have the ownership further evaluated and a survey completed.
81	110 - Low Intensity Urban	0.1	No	This stand needs to have the ownership further evaluated and a survey completed.
83	110 - Low Intensity Urban	0.2	No	This stand needs to have the ownership further evaluated and a survey completed.
84	110 - Low Intensity Urban	0.0	No	This stand needs to have the ownership further evaluated and a survey completed.

Compartment: 2 Year of Entry: 2020



Stand	Cover Type	Acres	Managed Site	General Comments:
85	110 - Low Intensity Urban	0.0	No	This stand needs to have the ownership further evaluated and a survey completed.
86	110 - Low Intensity Urban	0.0	No	This stand needs to have the ownership further evaluated and a survey completed.
87	110 - Low Intensity Urban	0.1	No	
88	110 - Low Intensity Urban	0.1	No	This stand needs to have the ownership further evaluated and a survey completed.
89	110 - Low Intensity Urban	0.1	No	This stand needs to have the ownership further evaluated and a survey completed.
92	110 - Low Intensity Urban	0.1	No	This stand needs to have the ownership further evaluated and a survey completed.
93	110 - Low Intensity Urban	0.2	No	This stand needs to have the ownership further evaluated and a survey completed.
94	110 - Low Intensity Urban	0.1	No	This stand needs to have the ownership further evaluated and a survey completed.
95	110 - Low Intensity Urban	0.4	No	This stand needs to have the ownership further evaluated and a survey completed.
96	110 - Low Intensity Urban	0.1	No	This stand needs to have the ownership further evaluated and a survey completed.
97	110 - Low Intensity Urban	0.4	No	This stand needs to have the ownership further evaluated and a survey completed.
98	110 - Low Intensity Urban	0.1	No	This stand needs to have the ownership further evaluated and a survey completed.
99	110 - Low Intensity Urban	0.2	No	This stand needs to have the ownership further evaluated and a survey completed.
100	110 - Low Intensity Urban	0.1	No	This stand needs to have the ownership further evaluated and a survey completed.
101	110 - Low Intensity Urban	0.4	No	This stand needs to have the ownership further evaluated and a survey completed.
103	110 - Low Intensity Urban	1.9	No	This stand needs to have the ownership further evaluated and a survey completed.
			<u> </u>	