

Compartment Review Presentation

Roscommon Forest Management Unit

Compartment 91
Entry Year 2016
Acreage: 622

County Roscommon

Management Area: Ogemaw Hills

Revision Date: 06/30/2014

Stand Examiner: Jason Lewicki

Legal Description:

T23N, R01W Section 23 and 24

Identified Planning Goals:

Maintain current age and species diversity in a range of early and late successional ecosystems as determined by the Ogemaw Hills Management Area plan.

Soil and topography:

Soils on the uplands consist of Grayling and Greycalm-Grayling sands. Lowland areas are predominately Dawson-Loxley peat and Deford muck.

The topography is generally flat on the northern end and becones gently rolling to hilly on the southern end.

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

This compartment lies just outside the town of St. Helen. Due to this it recieves a heavy amount of land use in the form of hunting and ORV use. There is a lot of private property to the east and north of this compartment but just outside of St. Helen land ownership changes to large blocks of State ownership.

Unique Natural Features:

No Unique Natural Features known.

Archeological, Historical, and Cultural Features:

No Archeological, Historical, or Cultural Features known.

Special Management Designations or Considerations:

None at this time

Watershed and Fisheries Considerations:

None at this time.

Wildlife Habitat Considerations:

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of ice-contact and glacial outwash sand and gravel and postglacial alluvium. The glacial drift thickness varies between 400 and 600 feet. Beneath the glacial drift is the Mississippian Michigan Formation. The Michigan is quarried for gypsum elsewhere in the State. Most of the good gravel pits are associated with upland areas. The nearest gravel pit is located just to the south and potential appears to be good in Section 34. St. Helen Field is located four miles to the north. The field has produced over 8.7 million BO and 14.7 Bcf gas from the Devonian Richfield Formation, and is in secondary recovery operations currently. The Compartment is not currently leased.

Vehicle Access:

Vehicle access is excellent in this compartment.

Survey Needs:

None needed at this time.

Recreational Facilities and Opportunities:

Recreational activities are popular in this compartment due to the proximity of St. Helen. The St. Helen ORV Route (Fuel Connector) divides the larger section of the compartment. Utilize timber management activities to balance resource protection by closing illegal trails and scramble areas. Assure warning signs are placed on the trail regarding logging activity on ORV Route. Focus any retention pockets along or near trail. All sign posts shall be protected. Limit stacking of

timber along the trail. Ensure logging activity does not obliterate the designated trail. All stumps within 20 feet of the trail shall be Flush-Cut to ensure stumps do not result in unsafe conditions.

Fire Protection:

Section 34 is mostly oak, aspen and a few stands of jackpine. There is a subdivision on the east side of the section that causes a wildlind-urban interface concern. Access in both of these sections is good. Section 28 only has 2 stands of oak surrounded by private subdivisio and is not much of a fire protection concern.

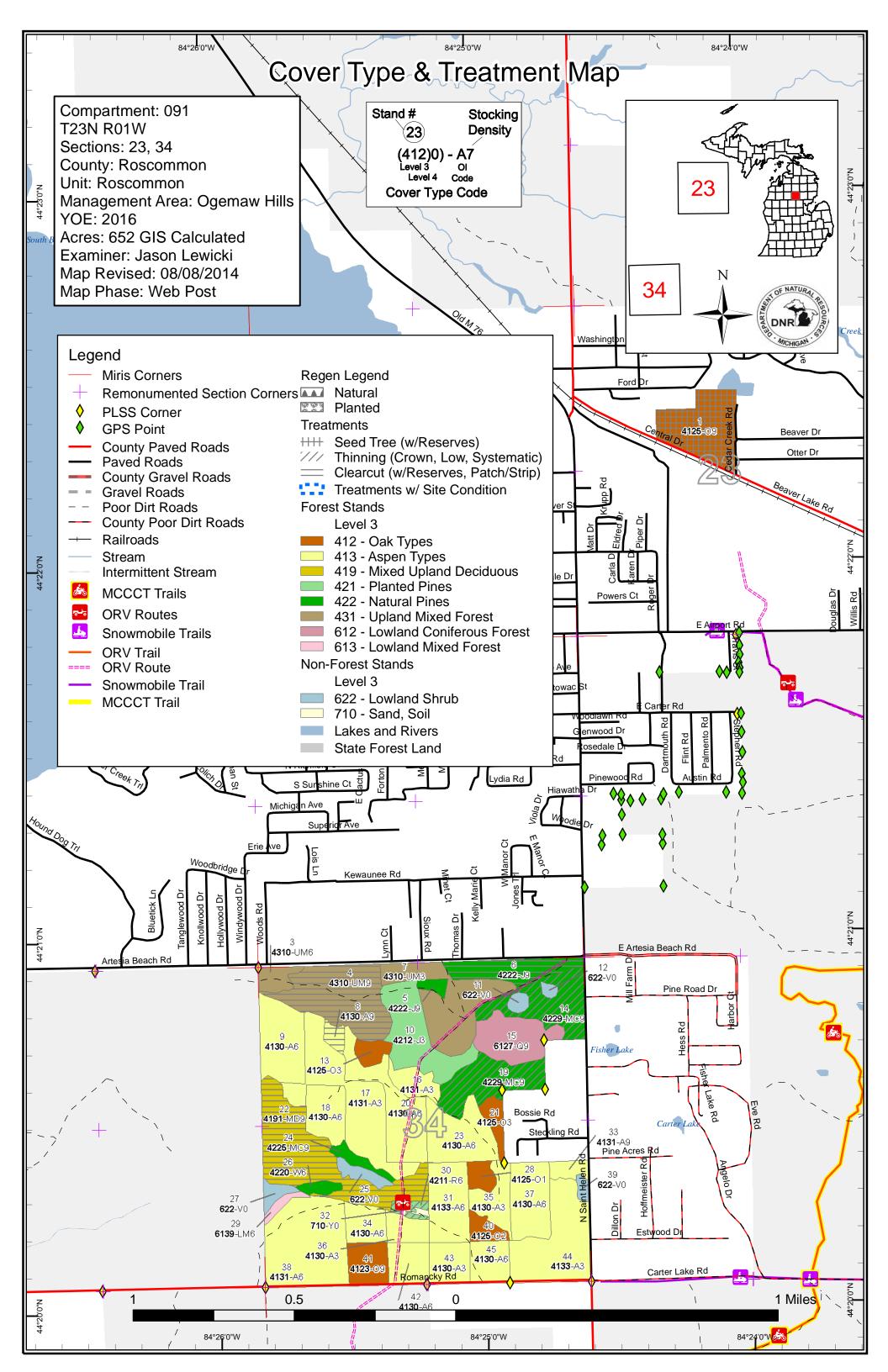
Additional Compartment Information:

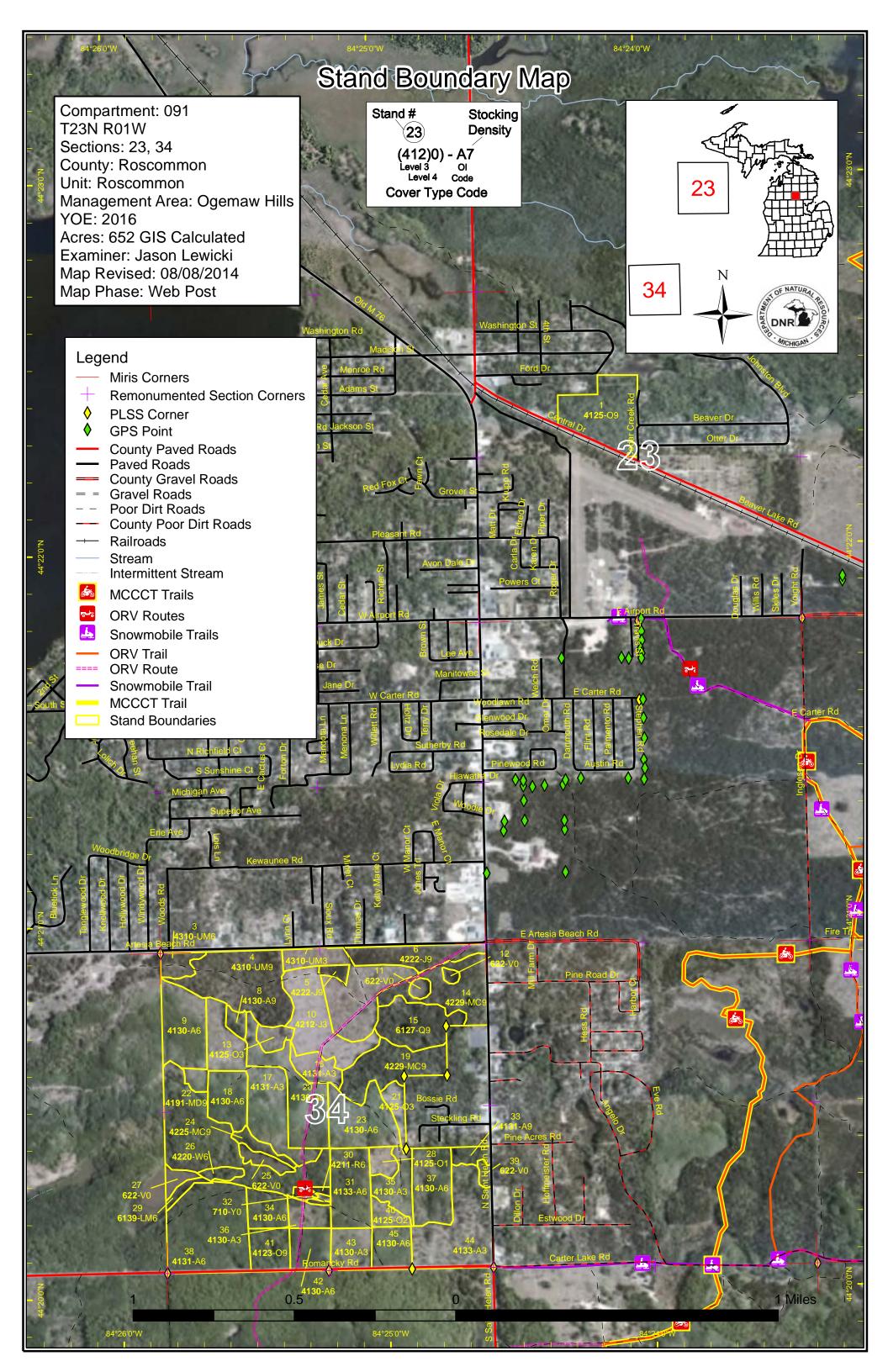
The following reports from the Inventory are attached:

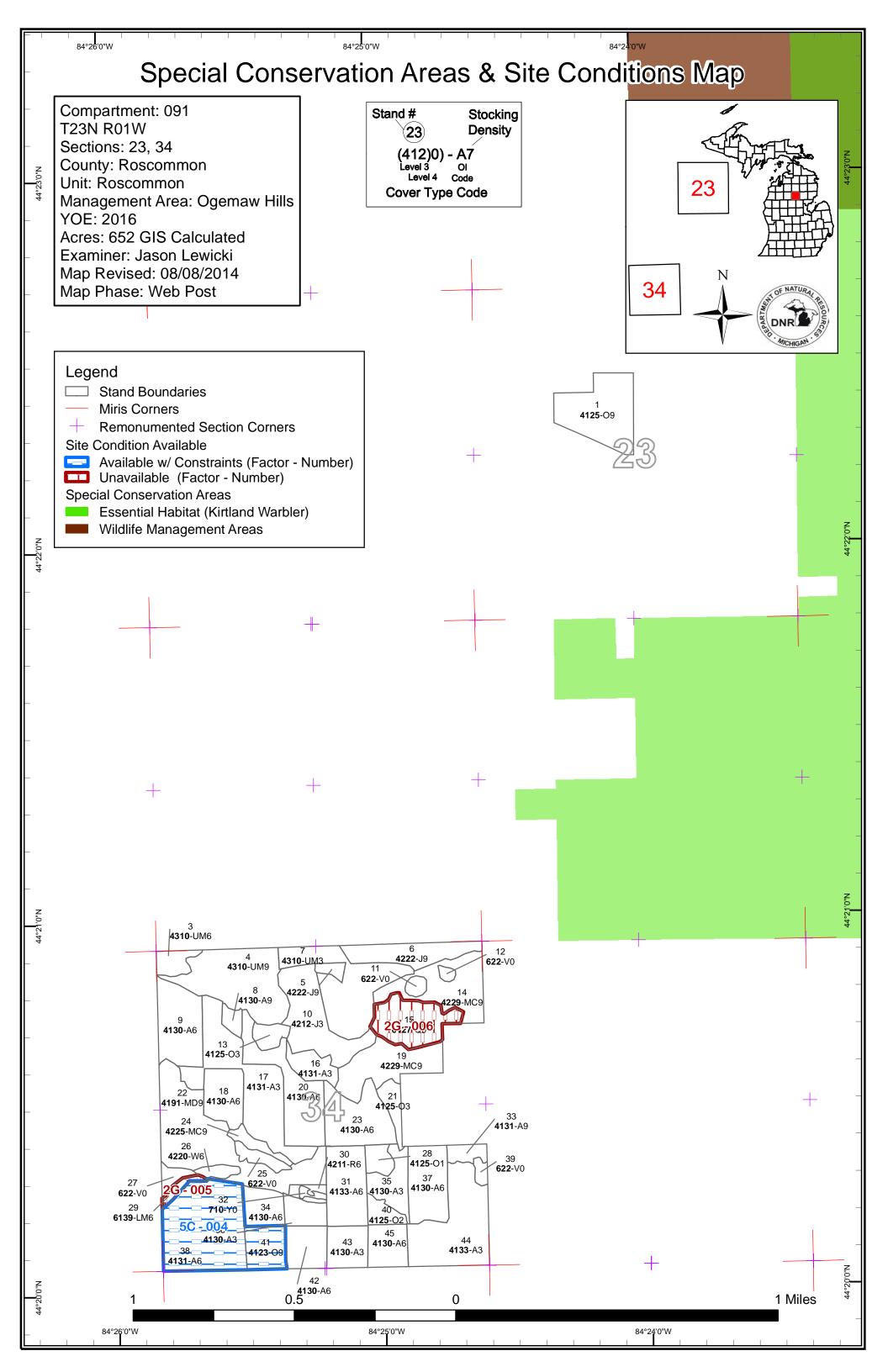
Total Acres by Cover Type and Age Class
Cover Type by Harvest Method
Proposed Treatments – No Limiting Factors
Proposed Treatments – With Limiting Factors
Stand Details (Forested and Nonforested)
Dedicated and Proposed Special Conservation Areas
Site Condition Details

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 091 Year of Entry 2016

Roscommon Mgt. Unit

Jason Lewicki : Examiner



						Age	Class									
		80	, a,	S. S		AD AS	\$5.0°	80.00	,	80.	8 /	00,700	/0,70/ 0,70/	No X	No.	, or
Aspen	60	71	128	0	0	0	4	3	0	42	0	0	0	0	308	
Bog	13	0	0	0	0	0	0	0	0	0	0	0	0	0	13	
Jack Pine	27	0	0	0	0	0	16	2	0	0	0	0	0	0	45	
Lowland Conifers	0	0	0	0	0	0	0	20	0	0	0	0	0	0	20	
Lowland Mixed Forest	0	0	0	0	0	0	0	0	2	0	0	0	0	0	2	
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	0	0	47	0	0	0	47	
Natural Mixed Pines	0	0	0	0	0	0	23	0	0	0	4	0	0	22	49	
Oak	5	9	5	0	0	0	0	0	0	39	0	0	0	0	58	
Red Pine	0	0	0	0	2	0	0	0	0	0	0	0	0	0	2	
Sand, Soil	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
Upland Mixed Forest	0	32	0	0	0	5	0	36	0	0	0	0	0	0	73	
White Pine	0	0	0	0	0	0	0	0	0	3	0	0	0	0	3	
Total	106	113	133	0	2	5	43	61	2	84	51	0	0	22	622]



Report 2 – Proposed Treatment Summaries

Roscommon Mgt. Unit Year of Entry 2016

Compartment 091 Total Compartment Acres: 622

Acres by Treatment Type

Commercial Harvest - 177 Tree Planting - 51

Other - 0

Habitat Cut - 0

Opening Maintenance - 0

Cover Type by Harvest Method

	coto: Type by that toot inclined								
		/.	13. O.	Section of	N. S. S.	oo de la companya de	OK OK		P. C. S.
Aspen Types		3	0	0	0	0	0	3	
Mixed Upland Deciduous		47	0	0	0	0	0	47	
Natural Pines		16	0	0	0	45	0	61	
Oak Types		0	0	28	0	0	0	28	
Planted Pines		0	0	0	0	2	0	2	
Upland Mixed Forest		36	0	0	0	0	0	36	
	Total	102	0	28	0	48	0	177	

Roscommon Mgt. Unit

Report 3 -- Treatments Prescribed with No Limiting Factor

Compartment: 091 Year of Entry 2016

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t а **Treatment** Acres CoverType Size Stand BA **Treatment Treatment Cover Type Approval** n Method Objective Status Name Density Range Age **Type** d 71091001-Cut 28.0 4125 - Black, N. Pin High 51-80 Seed Tree with 412 - Oak 90 Harvest Cmpt. Review Oak **Density Log** Reserves Proposal

Specs:

<u>Prescription</u> Seed tree harvest stand in attempts to regenerate some oak. Leave red and white pine component for visuals along central drive. Leave approximately 10 BA of healthier oak, favoring white oak. Expect some patches of aspen regeneration. Survey needed. Possibly dispose of property.

<u>Other</u>

S

Comments:

Next Steps:

Proposed

10/01/2015 Start Date:

71091004-Cut 4211 - Planted Red 35.8 4310 - Pine, Oak Mix High 70 81-110 Harvest Clearcut with Cmpt. Review Density Log Reserves Pine Proposal

Prescription Clearcut and establish a red pine plantation. Stand should have a good mix of oak with the pine. Plant red pine for less of a wild fire risk species in a Specs: high use area around St. Helen. Leave scattered pine and oak for retention and visuals. Leave a few strips of jack pine to siomulate a "wildfire skip" and to increase aesthetics.

<u>Other</u>

Comments:

Trench and plant red pine.

Next Steps:

Proposed

Start Date: 10/01/2015

4211 - Planted Red 71091006-Cut 42220 - Natural 81-110 15.5 High 65 Harvest Clearcut with Cmpt. Review Jack Pine **Density Log** Reserves Pine Proposal

Prescription Clearcut stand and establish a red pine plantation. Leave little in the form of jack pine retention. Leave scattered red pine and oak for visuals and retention. Stand should have have a good mix of oak regen after the harvest. Leave some aditional retention around the small pot hole. Specs:

Other Comments:

<u>Next</u> Steps: Trench and plant red pine.

Proposed

Start Date: 10/01/2015

71091008-Cut 3.0 4130 - Aspen High 70 81-110 Clearcut with Cmpt. Review Harvest 413 - Aspen **Density Log** Reserves Proposal

Prescription Clear cut with adjacent jack pine stand. Manage fore aspen. Leave large crowned, healthy oak. Very little to no aspen retention. Specs:

Other

Comments:

Next Steps:

<u>Proposed</u>

Start Date: 10/01/2015

42290 - Natural 71091014-Cut 23.0 141-170 High 65 Harvest Crown Thinning 4221 - Natural Red Cmpt. Review Mixed Pine Density Log Pine Proposal

<u>Prescription</u> Thin stand by removing all jack pine. Thin red and white pine from below and attempt to advance pine and oak understory and increase overall health of the stand. Basal areas will vary do to varibility of the stand but targets should be in the 80-100 BA range. Buffer the pot hole bogs and Specs: leave out the SE part of the stand for retention due to the high water table and multiple small bogs.

Other

Comments:

<u>Next</u> Steps:

Proposed

Start Date: 10/01/2015 Roscommon Mgt. Unit

Acres

Report 3 -- Treatments Prescribed with No Limiting Factor

Compartment: 091 Year of Entry 2016 Approval

Treatment n Name d 71091019-Cut 19

22.4 42290 - Natural Mixed Pine

CoverType

High Density Log

Size

Density

81-110

BA

Range

Stand

Age

60

Harvest

Treatment

Type

Method Crown Thinning

Treatment

Objective 4221 - Natural Red

Cover Type

Status Cmpt. Review

Proposal

Specs:

S t а

Prescription Thin stand to promote understory requitment of pine and oak. Remove all jack pine. Thin stand down to around 70-90BA. Remove high risk oak where it wont damage regeneration while felling. Do not spec cut the aspen. Mark some for removal but not enough to regenerate. Protect regeneration by not allowing tree length skidding. Do not contract.

<u>Other</u>

Comments:

Next Steps:

Proposed

22

10/01/2015 Start Date:

71091022-Cut

47.2

4191 - Mixed **Upland Deciduous** with Conifer

High Density Log 100 111-140

Harvest

Clearcut with Reserves

413 - Aspen

Cmpt. Review Proposal

Specs:

Prescription Clearcut the stand and manage for aspen with a oak component. Most of the stand should have no problems regenerating to aspen. Leave large red pine component for diversity and leave all white pine greater than 6". Leave a buffer strip along the bog edge and small groups of aspen scattered throughout for retention purposes. Leave scattered large crowned oaks where possible.

Other

Comments: <u>Next</u>

Steps:

Proposed Start Date:

10/01/2015

71091030-Cut 30

42110 - Planted 2.5 Red Pine

High Density Pole

48 141-170 Harvest

Crown Thinning

Pine

4211 - Planted Red Cmpt. Review Proposal

Specs:

Prescription Thin stand by removing all jack pine and 1/3 of the red pine volume. Market with clearcut stand to the NW.

Other

Comments:

Next Steps:

Proposed

10/01/2015 Start Date:

> **Total Treatment** Acreage Proposed:

177.5

Roscommon Mgt. Unit Report 4 -- Treatments Prescribed with a Site Condition

Stand

Age

BA

Range

Treatment

Type

Treatment

Method

Size

Density

Compartment: 091 Year of Entry 2016

Cover Type

Objective

DNR DROPER OF THE PROPERTY OF

Status

#Type! #Type!

CoverType

Acres

Prescription

Specs:

s

n

Other Comment:

Next Steps:

Proposed

Start Date: #Type!

Limiting Factor

Total Treatment

Treatment

Name

Acreage Proposed: 0.0

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Report 5 - Site Conditions

Roscommon Mgt. Unit

Jason Lewicki: Examiner

22

4%

3

607

3

585

96%

Compartment 091
Year of Entry 2016

Availability for Management Dominant Site Conditions Total Acres Acres Not Available 5C 2G Available Acres 42 308 308 Aspen 266 44 44 Jack Pine 44 19 19 19 **Lowland Conifers** 2 2 **Lowland Mixed Forest** 2 47 47 Mixed Upland Deciduous 47 49 49 **Natural Mixed Pines** 49 58 58 47 Oak 11 2 Red Pine 2 2 **Upland Mixed Forest** 73 73 73

White Pine

Total Forested Acres

Relative Percent

22

3

532

53

004 A v	vailable			Other Site Condition	Other Site Condition	Other Site Condition
		5C: Delay treatment for age/size class diversity or exceptional site quality	53			
Comme	ents:					
005 Not	Available	2G: Too wet (sensitive soils, does not include access issues)	2			
Comme	ents:					

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

Report 5 – Site Conditions

Roscommon Mgt. Unit

Jason Lewicki: Examiner

Compartment 091 Year of Entry 2016

006	Not Available	2G: Too wet (sensitive soils, does not include access issues)	20
С	omments:		

Roscommon Mgt. Unit

Compartment: 091 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.

Comments	

Roscommon Mgt. Unit Compartment: 091
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.

Conservatio Area	n Type	Description	ERA = Ecological Reference Area HCVA = High Conservation Value Area SCA = Special Conservation Area
SCA	Archaeological Site	An aquatic or terrestrial area of the State that contains physical is sites of cultural and historical significance that may occur upon to bottomlands. They include thousands of Native American settler 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 Prethis compartment will be implemented in such a manner as to me the sensitive nature of this information, no further detail about logical size.	errestrial areas and Great Lakes nents and burial sites, as well as French and homesteads. Beneath the waters of nenting the maritime trade. Such sites may servation Office. Proposed treatments in aintain the integrity of these sites. Due to
HCVA	Designated Critical Habitat	Critical habitat areas are established via a consultative and coop U.S. Fish and Wildlife service for the recovery of threatened and Part 365, Endangered Species Protection, of the Natural Resour 1994 PA 451, and the Federal Endangered Species Act of 1973 species plans in various stages of review. As of now only two explover Habitat.	endangered species, as governed by rces and Environmental Protection Act, This is an active program, with proposed

s t	Roscommon Mgt. Unit			Report 8	Stands Compartment: 091 Year of Entry: 2016	
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	4125 - Black, N. Pin Oak	High Density Log	28.0	90	51-80	Stand of 90+ year old poor quality black oak. Stand is mixed with variable height white pine of which some makes it into the canopy. Some scattered pockets of aspen. Heavy illegal firewood cutting and ORV use. Small wet swale on north end. Scattered red pine.
3	4310 - Pine, Oak Mix	High Density Pole	5.3	50	51-80	
4	4310 - Pine, Oak Mix	High Density Log	35.8	70	81-110	Older jack pine and low quality oak stand. Multiple ages of jack pine. The oldest being about 70-75 yrs with a 50 year old age class as well. Oak and older jack pine are in decline with some mortality. Scattered red pine throughout with a pocket of heavier red pine on hte SE side. Good amounts of oak in the understory.
5	42220 - Natural Jack Pine	High Density Log	2.3	70	51-80	Small stand of 70-75 year old jack pine.
6	42220 - Natural Jack Pine	High Density Log	15.5	65	81-110	Stand of mature jack pine(65-70 yrs) along artesia beach rd. Some scattered red pine and oak. More red pine component on the east side. Oak understory.
7	4310 - Pine, Oak Mix	High Density Sapling	32.2	17		Red pine plantation with heavy oak component.
8	4130 - Aspen	High Density Log	3.0	70	81-110	Small stand of overmature aspen mixed with some oak and jack pine. Oak saplings in understory.
9	4130 - Aspen	High Density Pole	21.3	28	51-80	
10	42121 - Planted Jack Pine, Mixed Deciduous	High Density Sapling	26.7	8		Jack pine plantation with good amounts of oak regeneration.
13	4125 - Black, N. Pin Oak	High Density Sapling	4.6	28		Wildfire
14	42290 - Natural Mixed Pine	High Density Log	23.0	65	141-170	Mixed stand of red pine, jack pine and oak. There are multiple age classes of red pine. Some very old, large red pine present in the 175 year range. Some red pine in the understory but mostly it has white pine with some oak regeneration on the north end. Jack pine is mature and has some decline and mortality.
15	6127 - Lowland Pine	High Density Log	19.6	72	111-140	Lowland pine swamp with black spruce.
16	4131 - Aspen, Oak	High Density Sapling	7.6	8		
17	4131 - Aspen, Oak	High Density Sapling	38.4	18		
18	4130 - Aspen	High Density Pole	13.1	28	1-50	

S t	Roscommon	n Mgt. Unit		Report 8 –	Forested	Stands Compartment: 091 Year of Entry: 2016
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
19	42290 - Natural Mixed Pine	High Density Log	22.4	Uneven Age	81-110	2-3 aged red pine stand mixed with jack pine, white pine and black oak. Majority of stand is small sawtimber size red and white pine. There is also a 90 year old age class present. Old, large diameter red pine are also prestent as super canopy trees and were cored at 175 years and can be labeled as "legacy trees". Old fire scars are common on these trees. White pine, oak and even some red pine are found as sa[plings in the understory.
20	4130 - Aspen	High Density Pole	25.0	28	81-110	
21	4125 - Black, N. Pin Oak	High Density Sapling	5.3	8		Heavy cherry component. All the aspen is on the south edge.
22	4191 - Mixed Upland Deciduous with Conifer	High Density Log	47.2	100	111-140	LArge stand of old black oak and aspen. Scattered mature red pine. Some areas of very thick white pine understory. Small narrow swale in the central part of the stand that is easily crossible by equipment. There are many illegal ORV trails found throughout the stand.
23	4130 - Aspen	High Density Pole	21.9	18	1-50	
24	42250 - Pine, Oak	High Density Log	4.0	100	81-110	
26	42200 - Natural White Pine	High Density Pole	2.9	90	51-80	
28	4125 - Black, N. Pin Oak	Low Density Sapling	4.6	18		Open grass/sedge areas with oak found scattered and in clumps.
29	6139 - Mixed Lowland Forest	High Density Pole	2.3	80		
30	42110 - Planted Red Pine	High Density Pole	2.5	48	141-170	Small mixed plantation of red and jack pine. Red pine has much better form.
31	4133 - Aspen, Mixed Pine	High Density Pole	19.7	26	51-80	Areas of almost solid oak. Areas heavy to white pine.
33	4131 - Aspen, Oak	High Density Log	4.2	68	81-110	
34	4130 - Aspen	High Density Pole	9.3	26	51-80	Some quaking aspen and black oak on north end.
35	4130 - Aspen	High Density Sapling	10.9	18		
36	4130 - Aspen	High Density Sapling	6.8	6		A3 stand with some scattered mature oak overstory. Some oak regen on N. end.

Roscommon	Mgt. Unit	
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Report 8 - Forested Stands

Compartment: 091 Year of Entry: 2016



t						Year of Entry: 2016
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
37	4130 - Aspen	High Density Pole	18.5	26	81-110	
38	4131 - Aspen, Oak	High Density Pole	42.4	90	111-140	Aspen pole timber stand with older overstory of oak. Better SI on the south end with some nice red oak. Lower Si to the north with quaking aspen and less oak. Hold until next entry. Oak overstory age is around 90 years old. Aspen is 43 years old.
40	4125 - Black, N. Pin Oak	Medium Density	4.8	18		Somewhat open/low stocking oak stand mixed with red maple.
41	4123 - Red Oak	High Density Log	10.6	90	81-110	Red/black oak stand that was thinned in the past. Heavy red maple understory and pockets of aspen.
42	4130 - Aspen	High Density Pole	10.7	26	51-80	
43	4130 - Aspen	High Density Sapling	10.5	6		
44	4133 - Aspen, Mixed Pine	High Density Sapling	34.8	7	1-50	Stand was cut in spring of 2007. White oak, white pine and red pine were left. Regen consists of a good mix of aspen and oak saplings.
45	4130 - Aspen	High Density Pole	10.4	26	1-50	

Compartment: 091 Year of Entry: 2016



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
11	6225 - Bog	2.2	No	Unspecified	
12	6225 - Bog	1.3	No	Unspecified	
25	6225 - Bog	4.2	No	Unspecified	
27	6225 - Bog	3.3	No	Unspecified	
32	710 - Sand, Soil	1.2	No	Unspecified	
39	6225 - Bog	1.9	No	Unspecified	