

Compartment Review Presentation

Roscommon Forest Management Unit

Compartment 75 Entry Year 2015 Acreage: 1,961 County Roscommon Management Area: Houghton Lake Wetlands

Revision Date: 07/29/2013

Stand Examiner: Doug Bates

Legal Description:

T23N R04W Sections 6, 7, & 18

Identified Planning Goals:

Maintain current cover types by regeneration harvests for areas where soils permit activity. Areas inaccessible, will allow stands to manage/regenerate on their own.

Soil and topography:

The lowland soil types consist of Rifle Peat and Houghton muck. The remaining soils are primarily Newton Loamy Sand with some Mergland Loam.

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

The entire compartment is State ownership. Several oil well pads are found in Section 18 and are managed by Merrit Energy. Their well pads are also found on the private property to the west. A portion of the compartment is the Reedsburg Dam Flooding containing the Muskegon river.

Unique Natural Features:

The compartment contains Rich Conifer Swamps as documented in the MNFI database. The stands contain spruce, fir, cedar and moss ground cover.

Archeological, Historical, and Cultural Features:

No Archeological, Historical, or Cultural Features known.

Special Management Designations or Considerations:

Leave cedar to run its course naturally. By not harvesting it will allow this long lived species to exist in the stand layers for years to come. Deer density and browsing pressures will not allow cedar regeneration to occur if the deer are not excluded.

Watershed and Fisheries Considerations:

The Muskegon River, Dead Stream Creek, and Haymarsh Creek, along with the the associated Reedsburg Dam Flooding provide not only fishing opportunities but hunting, camping, and other recreational activities.

Wildlife Habitat Considerations:

Bald eagle and Osprey nesiting sites are located throughout the compartment. Sightings of Moorhen's and Least Bittern have been documented in the past.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consists of peat/muck, glacial outwash sand, gravel, and post glacial allunium. The glacial drift thickness varies between 400 and 600 feet. Beneath the glacial drift lies the Mississippian Michigan formation. The Michigan formation is quarried for gypsum elsewhere in the State. Most of the nearby gravel pits are associated with upland areas. There are no upland areas near here and gravel potential is limited. The Enterprise Field, operated by Merrit Energy, is located in Section 18. The field has produced over 4.7 million barrels of oil from the Devonian Richfield Formation. It is currently acting as a secondary recovery operation.

Vehicle Access:

Access is very poor for this compartment because of the large expanses of wet ground. A poor forest road originating from Missaukee County exists in Section 6, but just travels a few hundred feet into this compartment and stops. The only other roads exist in Section 18 and are being used for the oil operations. However, private property lies between this compartment and the county road(s) to the west with locked gates blocking the oil access roads. The State does not have any easements for access across these private parcels.

Survey Needs:

None needed

Recreational Facilities and Opportunities:

Hunting and fishing along with other recreational activites such as canoeing.

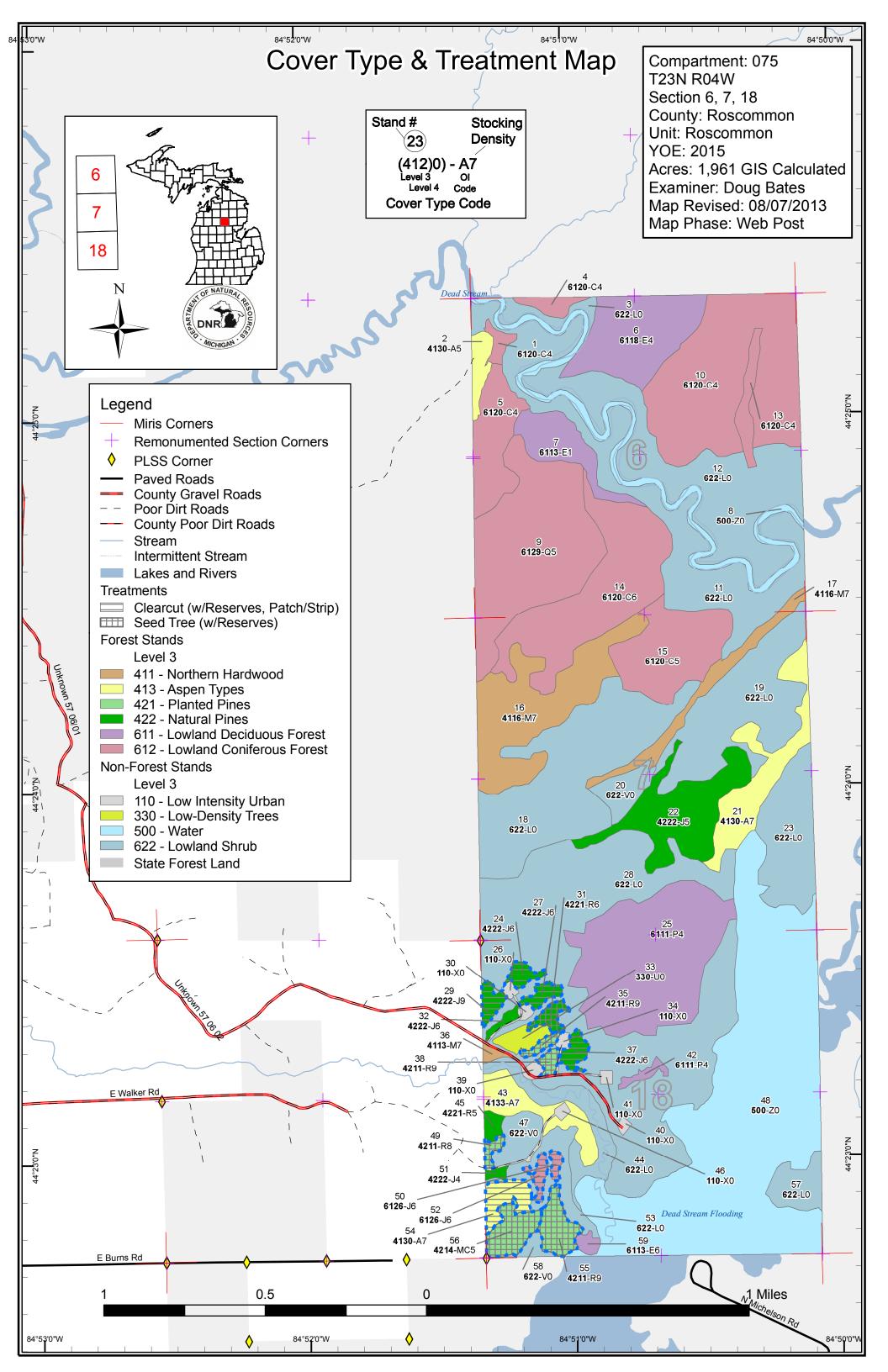
Fire Protection:

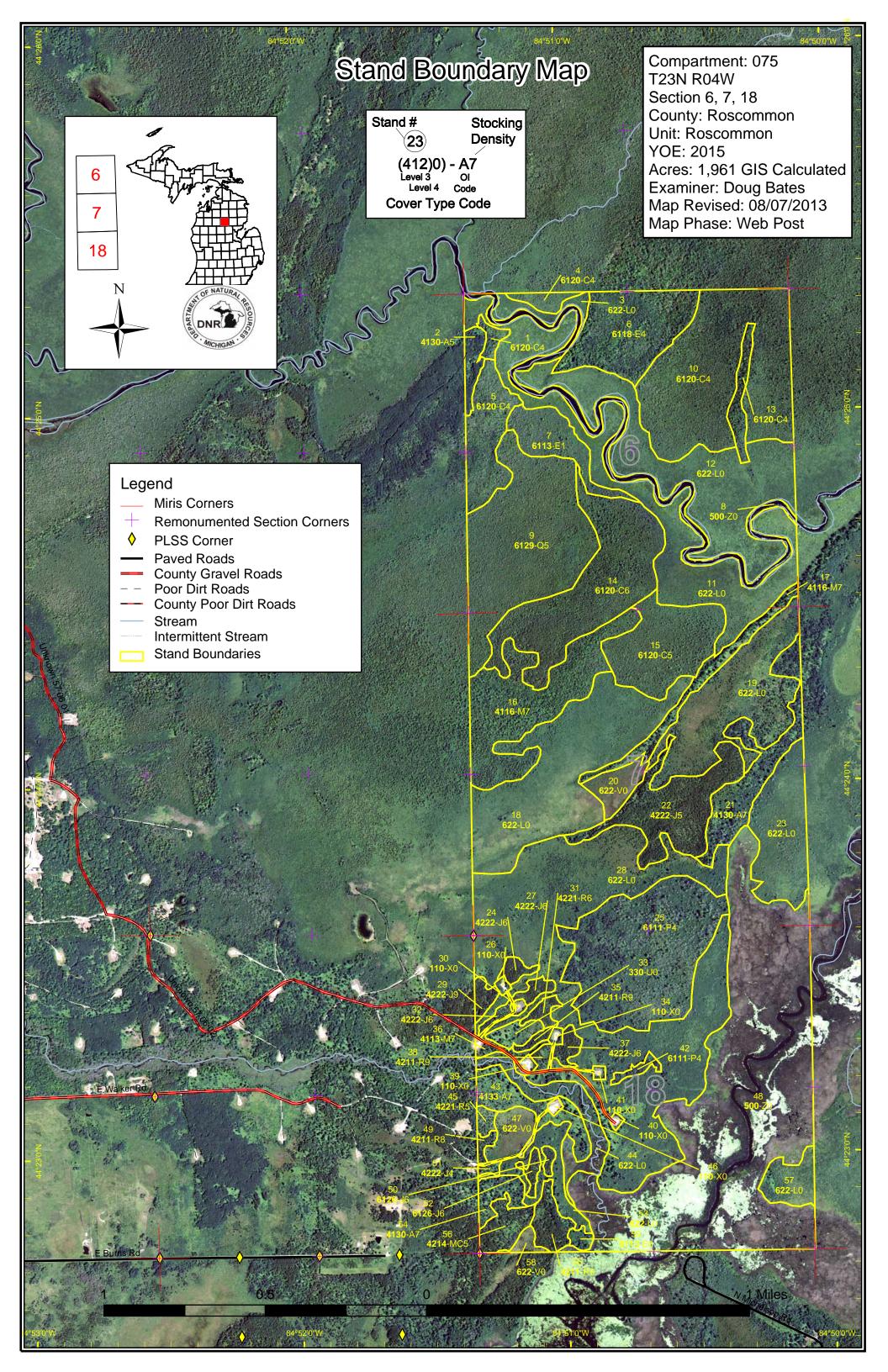
Mostly wet ground and vegetaion types in area. What little high ground exists is surrounded by wet soils/vegetation types. Limited access roads mainly in Section 18. Ground conditions are not accessible with the wildfire suppression equipment on hand. Will need to work off of natural or existing man-made fuel breaks.

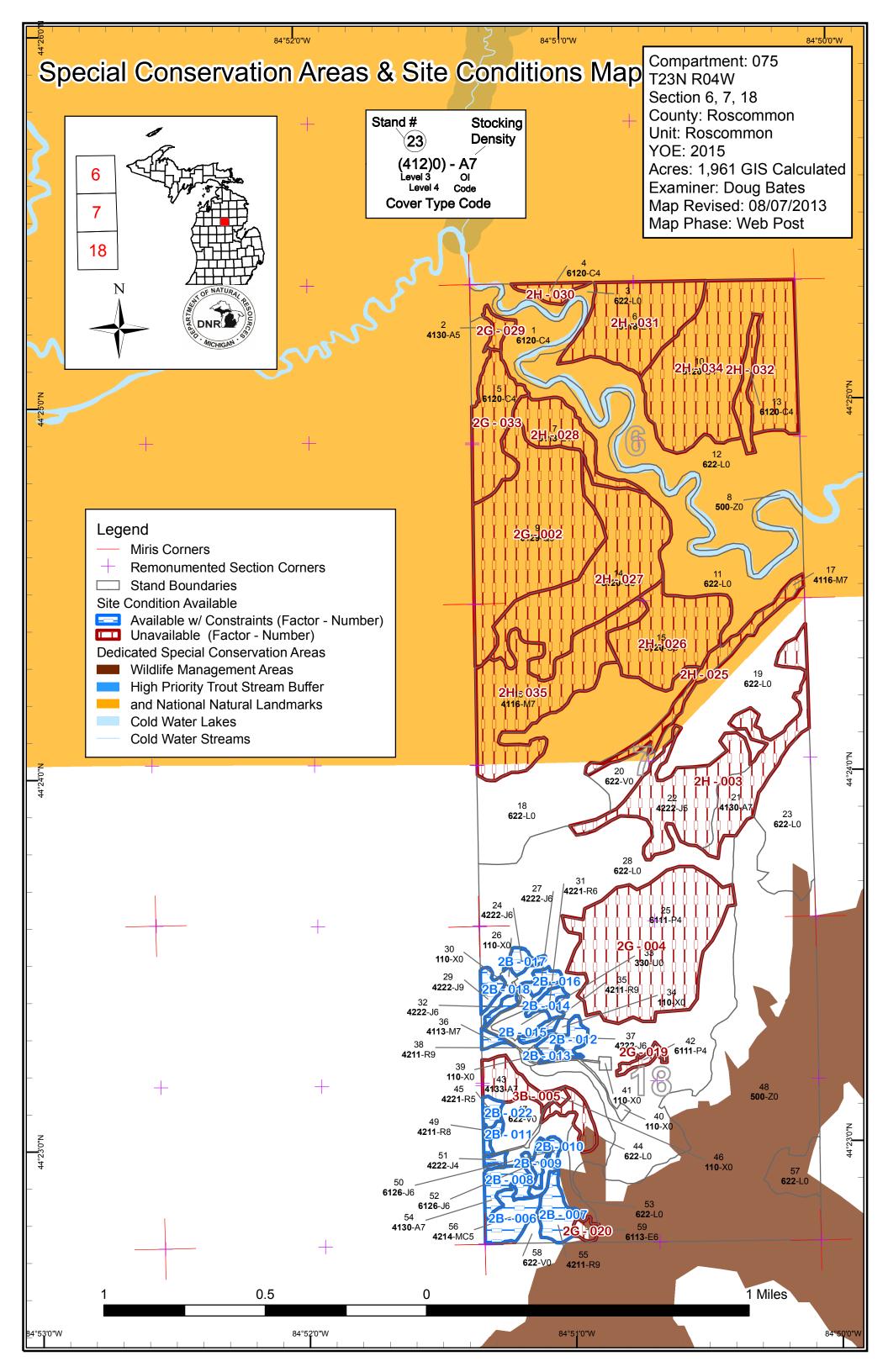
Additional Compartment Information:

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







Report 1 – Total Acres by Cover Type and Age Class

Roscommon Mgt. Unit Douglas Bates : Examiner

Compartment 075 Year of Entry 2015



Age	Class
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Bog	26	0	0	0	0	0	0	0	0	0	0	0	0	0	26	
Cedar	0	0	0	0	0	0	149	85	4	64	0	0	0	0	302	
Jack Pine	0	0	2	14	7	0	0	0	48	0	0	0	0	0	72	
Low-Density Trees	6	0	0	0	0	0	0	0	0	0	0	0	0	0	6	
Lowland Aspen/Balsam Poplar	0	0	0	0	0	0	111	0	0	0	0	0	0	0	111	
Lowland Conifers	0	0	0	0	0	0	0	0	0	106	0	0	0	0	106	
Lowland Deciduous	0	23	0	3	0	0	52	0	0	0	0	0	0	0	77	
Lowland Shrub	737	0	0	0	0	0	0	0	0	0	0	0	0	0	737	
Northern Hardwood	0	0	0	0	0	0	0	88	2	0	0	0	0	0	90	
Planted Mixed Pines	0	0	0	0	0	0	0	12	0	0	0	0	0	0	12	
Red Pine	0	0	0	7	0	0	0	13	5	0	0	0	0	0	24	
Urban	12	0	0	0	0	0	0	0	0	0	0	0	0	0	12	
Water	314	0	0	0	0	0	0	0	0	0	0	0	0	0	314	
Total	1095	23	2	31	7	0	312	218	103	169	0	0	0	0	1961	



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			Acre	es by Treatm	ent Type			
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	Habitat Cut - 0	Opening Maintena	nce - 0					
			Co	ver Type by	Harvest Method			
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<u>Other</u> Comr		•	-	outh border. Only a s to treat this area s					erty. Trying to obta	ain permission from a c	ooperative
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Limiti	ng Facto	<u>r</u>	2B: l	Jnknown if access th	nrough adjac	ent land	lowner(s) is	s possible			
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29	7107502	29-Cut	4.0	Jack Pine	High Density Lo	45)	81-110	Harvest	Clearcut	42220 - Natural Jack Pine	Cmpt. Review Proposal
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a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
35 7 ⁻	1075035-Cut	2.2	42110 - Planted Red Pine	High Density Log	82 g	81-110	Harvest	Seed Tree	42210 - Natural Red Pine	Cmpt. Review Proposal
<u>Prescrip</u> <u>Specs:</u>	for see Longte	d source. rm MO: Re	ve all species to a two d pine stand ecommended due to					lition, mark to leav	ve 20 basal area of the	largest red pine
<u>Other</u> Comme			ide. Access for comin case future owners				operty. Pursuing	permission for acc	ess from a cooperative	landowner so
<u>Next</u> Steps:	None, v	will regenera	ate back naturally. C	urrently gettir	ng red pi	ine regene	ration back into o	pen areas of the s	tand.	
Propose Start Da	ate: 10/01/2									
Limiting	<u>Factor</u>	2B:	Unknown if access the	hrough adjac	ent land	owner(s) is	s possible			
37 7	'1075037-Cut	4.3	42220 - Natural Jack Pine	High Density Pole	35		Harvest	Clearcut	42220 - Natural Jack Pine	Cmpt. Review Proposal
Prescrip Specs:	Longte	rm MO: Na	narvest all species to tural jack pine needed due to the star			naped size				
<u>Other</u> Comme	•		est corner. Commer		•		operty. Currently	/ trying to gain acc	ess by way of a cooper	ative landowner
<u>Next</u> Steps:	None n	eeded, goo	d jack pine regenerat	ion currently.		-				
Propose Start Da		2014								
Limiting	Factor	2B:	Unknown if access the	hrough adjac	ent land	owner(s) is	possible			
38 7	'1075038-Cut	2.4	42110 - Planted Red Pine	High Density Lo	82 g	171- 200	Harvest	Seed Tree	42210 - Natural Red Pine	Cmpt. Review Proposal
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<u>Prescrip</u> <u>Specs:</u> <u>Other</u> <u>Comme</u> <u>Next</u>	ption pines fo Longte Retenti Access ent: area no	ent: Remov or a seed so rm MO: Pla on: None n for comme ow in case fu	Red Pine we all species to a two burce anted red pine with na needed due to small s prcial harvest is only p	Density Lo o inch d.b.h. itural regener ize ossible via p not as fortho	g except fo ration rivate pr coming	200 or red pine operty. Cu	to 6 inches. In a irrently working w	addition, mark to le	Red Pine eave 20 basal areas of t	Proposal
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Prescrip Specs: Other Comme Next Steps: Propose Start Da Limiting	ption pines fo Longte Retenti Access area no None, r ed ate: 10/01/2	ent: Remov or a seed so rm MO: Pla on: None n for comme w in case fu red pine reg 2014 2B:	Red Pine we all species to a two burce anted red pine with na needed due to small s rrcial harvest is only p uture landowners are neneration is coming in	Density Lo p inch d.b.h. itural regener ize possible via p not as fortho n existing op	g except for ration rivate pr coming en areas ent land 75	200 or red pine operty. Cu s of the sta	to 6 inches. In a urrently working w	addition, mark to le	Red Pine eave 20 basal areas of t	Proposal the largest red
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	atment ame	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
50 71075	5050-Cut	1.7 6	126 - Lowland Jack Pine	High Density Pole	33		Harvest	Clearcut	6126 - Lowland Jack Pine	Cmpt. Review Proposal
Prescription Specs:	Longterr	m MO: Nautral			Dry or fo	orzen grou	nd conditions ne	eded during harves	st time	
<u>Other</u> Comment:								rith a cooperative la can to get the age	andowner to gain acces class back early.	s to treat the
<u>Next</u> <u>Steps:</u>	None ne	eded good nat	ural regeneration	of jack currei	ntly					
Proposed Start Date:	10/01/20)14								
Limiting Fac	tor	2B: Unk	nown if access th	rough adjace	ent lando	owner(s) is	possible			
52 71075	5052-Cut	3.1 6	126 - Lowland Jack Pine	High Density Pole	49	51-80	Harvest	Clearcut	6126 - Lowland Jack Pine	Cmpt. Review Proposal
Prescription Specs:	Longterr	m MO: Nautal			•	ound so mi	ust be harvest in	dry/frozen ground	conditions	
<u>Other</u> Comment:									andowner to gain acces e can't get in future	s to treat the
<u>Next</u> <u>Steps:</u>	None, g	ood natural jacl	k pine regeneratio	n currently						
Proposed Start Date:	10/01/20)14								
Limiting Fac	tor	2B: Unk	nown if access th	rough adjace	ent lando	owner(s) is	possible			
54 71075	5054-Cut	9.1	4130 - Aspen	Low Density Log	80		Harvest	Clearcut	4139 - Aspen, Mixed Deciduous	Cmpt. Review Proposal
Prescription Specs:	regenera Longterr	ation.	I species to two ir aspen with a mix				ant season to st	imulate the poor vi	gored stand to get optir	nal aspen
<u>Other</u> Comment:			harvest is only po landowners are r			operty. Cu	irrently working v	with a cooperative I	andowner to gain acces	ss to treat the
<u>Next</u> <u>Steps:</u>	None, if	cut in dormant	season will get so	ome aspen c	oming ir	n with a mi	x of red maple, p	bine, and birch		
Proposed Start Date:	10/01/20)14								
Limiting Fac	tor	2B: Unk	nown if access th	rough adjace	ent lando	owner(s) is	possible			
55 71075	5055-Cut	10.8 42	2110 - Planted Red Pine	High Density Log	77	141- 170	Harvest	Seed Tree	42210 - Natural Red Pine	Cmpt. Review Proposal
Prescription Specs:	for seed Longterr			nch except the	e red pi	ne to six in	iches. In additio	n, mark to leave 10)-20 basal area of the la	irgerst red pine
<u>Other</u> Comment:			harvest is only po landowners are r			operty. Cu	irrently working v	with a cooperative I	andowner to gain acces	ss to treat the
<u>Next</u> <u>Steps:</u>	None, n	atural regenera	tion of red pine pr	esent in ope	n areas	currently				
Proposed Start Date:	10/01/20)14								
Limiting Fac	tor	2B: Unk	nown if access th	rough adjace	ent lando	owner(s) is	possible			

S t	Roscommon Mgt. Unit Report 4 Treatments a Limiting Fa							l with	Compartment: 075 Year of Entry 2015	DR NATURAL PLAN	
a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status	
56	71075056-Cut	11.8	42140 - Planted Mixed Pine	Medium Density Pole	73	81-110	Harvest	Seed Tree	42290 - Natural Mixed Pine	Cmpt. Review Proposal	
Prese Spec	s: for future	e seed sou n MO: A m	re all species to two ir rce. Ground wet, must nix pine stand of red a	st cut when		•		on marke to leave	10 basal area of the la	rgest red pine	
<u>Othe</u> Com			rcial harvest is only po iture landowners are			operty. Cu	irrently working wi	ith a cooperative la	andowner to gain acces	s to treat the	
<u>Next</u> Step:		ood jack pir	ne regeneration prese	ently in stand	d. Will ge	et red pine	e seeding into area	as. Jack will just b	be a heavier component	t of stand	
	<u>osed</u> <u>Date:</u> 10/01/20	14									
Limit	ing Factor	2B:	Unknown if access th	nrough adjac	ent land	owner(s) i	s possible				
A	Total Treatmer creage Propose		.7								

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Doug Bates : Examiner

Compartment 075 Year of Entry 2015

Availability for Management

	•	-						
Total	Acres	Acres	De	omina	nt Site	e Cono	dition	5
Acres	Available	Not Available		No	3B	2H	2G	2B
71	17	55	Aspen	7	20	35		9
302	1	300	Cedar	1		266	34	
72	24	48	Jack Pine			48		24
111		111	Lowland Aspen/Balsam Poplar				111	
106		106	Lowland Conifers				106	
77		77	Lowland Deciduous			74	3	
89	3	86	Northern Hardwood	1		86		2
12	12		Planted Mixed Pines					12
24	24		Red Pine					24
864	81	783	Total Forested Acres	10	20	509	253	71
	9%	91%	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.

Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
Not Available	2G: Too wet (sensitive soils, does not include access issues)	106	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)			
omments:						
Not Available	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	84				
omments:						
Not Available	2G: Too wet (sensitive soils, does not include access issues)	108	2B: Unknown if access through adjacent landowner(s) is possible	5A: Not able to obtain desirable regeneration		
omments:						
	Not Available omments: Not Available omments: Not Available Not Available	Not Available 2G: Too wet (sensitive soils, does not include access issues) omments:	Not Available 2G: Too wet (sensitive soils, does not include access issues) 106 omments: 106 106 Not Available 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area) 84 omments: 106 106 Not Available 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area) 84 Not Available 2G: Too wet (sensitive soils, does not include access issues) 108	Not Available 2G: Too wet (sensitive soils, does not include access issues) 106 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area) omments: Not Available 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area) 84 Not Available 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area) 84 omments: Not Available 2G: Too wet (sensitive soils, does not include access issues) 108 2B: Unknown if access through adjacent landowner(s) is possible	Not Available 2G: Too wet (sensitive soils, does not include access issues) 106 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area) omments: Not Available 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area) 84 Not Available 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area) 84 omments: 2G: Too wet (sensitive soils, does not include access issues) 108 2B: Unknown if access through adjacent landowner(s) is possible 5A: Not able to obtain desirable regeneration	Not Available 2G: Too wet (sensitive soils, does not include access issues) 106 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area) Not Available 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area) 84 Not Available 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area) 84 Not Available 2G: Too wet (sensitive stand in a lowland area) 84 Not Available 2G: Too wet (sensitive soils, does not include access issues) 108 2B: Unknown if access through adjacent landowner(s) is possible 5A: Not able to obtain desirable regeneration

		nmon Mgt. Unit Bates : Examiner		Report 5 – Site Conditions	Compartment 075 Year of Entry 2015
005	Not Available	3B: Threatened, endangered, and special concern species/communities	20		
C	omments:				
006	Available	2B: Unknown if access through adjacent landowner(s) is possible	12		
C	omments:				
007	Available	2B: Unknown if access through adjacent landowner(s) is possible	11		
C	omments:				
008	Available	2B: Unknown if access through adjacent landowner(s) is possible	9		
C	omments:				
009	Available	2B: Unknown if access through adjacent landowner(s) is possible	3		
C	omments:				

Roscommon Mgt. Unit Doug Bates : Examiner				Report 5 – Site Conditions	Compartment 075 Year of Entry 2015
010	Available	2B: Unknown if access through adjacent landowner(s) is possible	2		
Co	mments:				
011	Available	2B: Unknown if access through adjacent landowner(s) is possible	2		
Co	mments:				
012	Available	2B: Unknown if access through adjacent landowner(s) is possible	4		
Co	mments:				
013	Available	2B: Unknown if access through adjacent landowner(s) is possible	2		
Co	mments:				
014	Available	2B: Unknown if access through adjacent landowner(s) is possible	4		
Co	mments:				
015	Available	2B: Unknown if access through adjacent landowner(s) is possible	2		
Co	mments:				

ole 2B: Unknown if access through adjacent landowner(s) is possible ole 2B: Unknown if access through adjacent landowner(s) is possible ole 2B: Unknown if access through adjacent landowner(s) is possible ole 2B: Unknown if access through adjacent landowner(s) is possible	4				
ole 2B: Unknown if access through adjacent landowner(s) is possible ole 2B: Unknown if access through adjacent landowner(s) is possible					
through adjacent landowner(s) is possible ble 2B: Unknown if access through adjacent landowner(s) is possible					
ble 2B: Unknown if access through adjacent landowner(s) is possible	4				
through adjacent landowner(s) is possible	4				
lable 2G: Too wet (sensitive soils, does not include access issues)	3	2B: Unknown if access through adjacent landowner(s) is possible	3L: Other wildlife concerns	5A: Not able to obtain desirable regeneration	
eagle nest					
lable 2G: Too wet (sensitive soils, does not include access issues)	3	2B: Unknown if access through adjacent landowner(s) is possible			
ble 2B: Unknown if access through adjacent landowner(s) is possible	1				
	ble 2B: Unknown if access through adjacent	soils, does not include access issues) ble 2B: Unknown if access 1 through adjacent landowner(s) is possible	soils, does not include access issues) through adjacent landowner(s) is possible ble 2B: Unknown if access through adjacent landowner(s) is possible	soils, does not include access issues) through adjacent landowner(s) is possible ble 2B: Unknown if access through adjacent landowner(s) is possible 1	soils, does not include access issues) through adjacent landowner(s) is possible ble 2B: Unknown if access through adjacent landowner(s) is possible 1

Roscommon Mgt. Unit Doug Bates : Examiner			Report 5 – Site Co	nditions	Compartment 075 Year of Entry 2015	
022	Available	2B: Unknown if access through adjacent landowner(s) is possible	3			
C	omments:					
023	Available	2B: Unknown if access through adjacent landowner(s) is possible	2			
C	omments:					
024	Available	2B: Unknown if access through adjacent landowner(s) is possible	2			
C	omments:					
025	Not Available	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	18	3L: Other wildlife concerns		
C	omments:					
026	Not Available	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	49	2G: Too wet (sensitive soils, does not include access issues)	5A: Not able to obtain desirable regeneration	3L: Other wildlife concerns
	omments: mount of deer bro	wse will not allow cedar regene	eration			
027	Not Available	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	85	2G: Too wet (sensitive soils, does not include access issues)	5A: Not able to obtain desirable regeneration	3L: Other wildlife concerns
	omments: mount of deer bro	wse will not allow cedar regene	eration			

		nmon Mgt. Unit Bates : Examiner		Report 5 – Site Cor	nditions	Compartment 075 Year of Entry 2015		
028	Not Available	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	23	2G: Too wet (sensitive soils, does not include access issues)				
С	Comments:							
029	Not Available	2G: Too wet (sensitive soils, does not include access issues)	4					
С	comments:							
030	Not Available	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	5	2G: Too wet (sensitive soils, does not include access issues)	5A: Not able to obtain desirable regeneration	3L: Other wildlife concerns		
	comments:	wse will not allow cedar regene	eration					
031	Not Available	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	52	2G: Too wet (sensitive soils, does not include access issues)				
С	Comments:							
C 032	Comments: Not Available	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	9	2G: Too wet (sensitive soils, does not include access issues)	5A: Not able to obtain desirable regeneration	3L: Other wildlife concerns		
032 C	Not Available	obstacle (e.g. upland		soils, does not include				
032 C	Not Available	obstacle (e.g. upland stand in a lowland area)		soils, does not include				

034 No						Year of Entry 2015	
	ot Available	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	118	2G: Too wet (sensitive soils, does not include access issues)	5A: Not able to obtain desirable regeneration	3L: Other wildlife concerns	
	ments: unt of deer brov	vse will not allow cedar regene	eration				
035 No	ot Available	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	70	2G: Too wet (sensitive soils, does not include access issues)			



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

Comments



Report 7 – DEDICATED CONSERVATION AREA DETAILS

* This is a list of Dedicated Biodiversity Areas for this compartment along with a 1/4 mile buffer surrounding the compartment. Refer to Dedicated Conservation Area Map for areas that the below listed Conservation Areas are located.

Conservati Area	ion 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 phy sites of cultural and historical significance that may occur bottomlands. They include thousands of Native American and British outposts, nineteenth century logging camps, in the Great Lakes, there are shipwrecks and other remains be identified by Natural heritage data from the State Histor this compartment will be implemented in such a manner as the sensitive nature of this information, no further detail ab	upon terrestrial areas and Great Lakes settlements and burial sites, as well as French nines and homesteads. Beneath the waters of documenting the maritime trade. Such sites may ric Preservation Office. Proposed treatments in s to maintain the integrity of these sites. Due to
SCA	Cold Water Lake	A coldwater lake has temperature and dissolved oxygen or stocked trout populations and those of other coldwater fish conditions for coldwater fishes may occur in Michigan lake groundwater inflows, or are located in colder (northern) are Director's action and designated as trout resources by Fish	n species to persist from year to year. Suitable es if they are relatively deep, have substantial eas of the state. Such lakes are established by
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxyger stocked trout populations and those of other coldwater fish year to year. Coldwater streams in Michigan typically provi contributions of groundwater to their stream flows. Such st designated as trout resources by Fisheries Order 210.	n species (e.g., slimy sculpin) to persist from ide these conditions due to substantial
SCA	Habitat Area	An area that provide some specific need for the life cycle of and Waterfowl Production Areas, deer wintering complexe openings and savannas. Habitat areas are distinct from cr endangered or threatened species (such as Kirtland's warf general in nature, are not primarily associated with threate covered by species recovery plans that are developed in c	es in lowland conifer communities, grassland itical habitat designated for recovery of bler or piping plover areas) in that they are more ened or endangered species, and are not
SCA	Non-Dedicated Natural Areas and National Natural Landmarks	This category is comprised of those Natural, Wilderness a proposed for legal dedication, but for which legal dedication nomination process is defined by Part 351, Wilderness an Environmental Protection Act, 1994 PA 451. The program require the submittal of a Natural Areas Nomination Packer proposed sites in various stages of review. Final dedication Areas is accomplished through legislative action.	on by legislature has not occurred. The d Natural Areas, of the Natural Resources and is administered by the DNR. Nominations et to the DNR. This is an active program, with
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosyst influences the aquatic ecosystem and vice-versa. Because streams and open water wetlands, riparian areas harbor a communities are ecologically and socially significant in the as aesthetics, habitat, bank stability, timber production, an	e of the unique conditions adjacent to lakes, high diversity of plants and wildlife. Riparian ir effects on water quality and quantity, as well
HCVA	Legally dedicated Natural Areas, Wilderness or Wild Areas	The nomination process is defined by Part 351, Wildernes and Environmental Protection Act, 1994 PA 451. The prog require the submittal of a Natural Areas Nomination Packe proposed sites in various stages of review. Final dedication Areas is accomplished through legislative action.	ram is administered by the DNR. Nominations et to the DNR. This is an active program, with

S t	Roscommo	n Mgt. Unit		Report 8	– Forested	I Stands Compartment: 075 Year of Entry: 2015
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	6120 - Lowland Cedar	Low Density Pole	3.8	80	1-50	All the ash is dead from the emerald bore. High water table with poor drainage. Sawlog size at north end that tapers to pole size and lower basal area to the south. Could access form Missaukee County but the small size, limited product, and poor operating conditions make it not a good candidate for salvage.
2	4130 - Aspen	Medium Density Pole	7.5	35	51-80	Sparse stand with some older larger diameter aspen on the edges. There is brachen ground cover. The stand is right around the forty year old class. It appears to be the same size/type as Stand 66, Compartment 91 of the Baldwin Unit. Believe this stand was harvested when theirs was, about 40 years ago.
4	6120 - Lowland Cedar	Low Density Pole	5.4	90		Very sparse poor quality cedar with majority being dead. No regeneration of any tree species in understory. Water present on ground.
5	6120 - Lowland Cedar	Low Density Pole	30.7	60		All the ash is dead from the emerald bore. Very sparse with small diameters and at best 10-20 basal area of sawlog sizes. Reed canary grass and standing water in entire stand. Heavier cedar component but they are porr quality and dying off also. Ash not worth salvaging and believe all cedar will blow over if remove the ash as wind breaks. (30 basal area average for cedar)
6	6118 - Lowland Deciduous with Cedar	Low Density Pole	51.7	61	1-50	A ridge runs along the west side containing the majority of the maple and aspen. There area scattered pockets of cedar in the low area amongst the ash. All the ash is dead from the emerald bore. The ash is small poles with very few saw sized ones. Currently has heavy ash regeneration in the understory that has not emperience mortality. The overstory doesnt warrant a salvage alond with the no good access. There is a campsite along the west side where boaters camp.
7	6113 - Lowland Maple	Low Density Sapling	22.8	15		Some pole sized ash and cedar but they are wither about dead or have blown over. Heavy red maple sapling regeneration.
9	6129 - Mixed Coniferous Lowland Forest	Medium Density Pole	105.8	90		Mix of all lowland species. Cedat most prevalent but poor quality, dead or dying. Lots of wind throw potential.
10	6120 - Lowland Cedar	Low Density Pole	118.7	67	1-50	Poor quality cedar with numerous dead or dying but still standing. The ash is all dead. No regeneration of cedar in understory but some ash but not sure how long will live before subcoming to the ash bore. Decent red maple though. If cut fear it would just convert to more tag alder marsh.
13	6120 - Lowland Cedar	Low Density Pole	9.5	90		All ash is dead. More saw sized ash but the stand is inaccessible. Heavy ash regeneration but how long will it go before it suffers bore mortailty.
14	6120 - Lowland Cedar	High Density Pole	85.3	72		Heavy cedar in pole sized class with numerous dead tops, deformed, just poor quality stuff. Some red maple in the interior but mostly on the fringe. Scattered large white pines towering over the rest. Their roughly spaced of about 1 per 5 acres. Some deer activity but not a wintering yard.

Report 8 – Forested Stands



S t	Roscommo	n Mgt. Unit		Report 8	 Forested 	I Stands Compartment: 075 Year of Entry: 2015
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
15	6120 - Lowland Cedar	Medium Density Pole	48.8	90		Poor quality sporadic cedar with some mixed red maple Inaccessible.
16	4116 - Mixed N. Hardwood - Aspen	Low Density Log	70.3	70		Scattered red maple clumps with sporadic aspen clones. Heavier aspen to the south. records show there was some activity done here in 1964 but it does not state what. Not sure if it was a habitat cut. It is inaccessible for commercial harvest.
17	4116 - Mixed N. Hardwood - Aspen	Low Density Log	17.9	70	51-80	Scatterd red maple clumps and aspen clones. Heavier aspen to the south. Records of some activity done here in 1964 but what specifically could not be found. Unsure if it was a habitat cut, the stand is inaccessible for commercial harvest.
21	4130 - Aspen	Low Density Log	35.1	82		Large overmature aspen very scattered with light regeneration. Ground has higher water table resulting in some tag alder understory. Some red maple and red pine on the fringes. Very similiar to Stand 49. Surrounded by large expanses of lowland brush making any commercial harvest not feasible.
22	42220 - Natural Jack Pine	Medium Density Pole	48.4	80		Jack and red pine mix. No access for commercial harvest due too large expanses of lowland brush/bogs.
24	42220 - Natural Jack Pine	High Density Pole	3.6	32	81-110	Brachen and blueberry ground cover but does undulate. Some saw sizes but majority are poles followed by saplings. Deer sign. Well pads adjacent have aspen regenerating in the open areas after pad was constructed on nocurrently mowed. Believe can get mixed regeneration of jack and aspen if harvest. There is only one way into the stand and it is via private property. Currently have permission for access from the current landowner. Should take advantage and treat now in case access is revoked in the future.
25	6111 - Lowland Balsam Poplar	Low Density Pole	108.1	65	1-50	Several dozen 1-2 acre pockets of lowland popular in larger pole sizes separated by wide fingers of tag alder fingers isolating the pockets from each other. Mutliple hummocks with trees in a lowland type. The volume of wood, the skid distances over sensitive soilsto get to a high ground landing, and the potential to have the site convert completely to tag alder if the overstory was removed make this site not a candidate for a treatment.
27	42220 - Natural Jack Pine	High Density Pole	3.6	37	81-110	Brachen/blueberry ground cover. Stand almost into saw size, roughly half and half. Decent jack pine regeneration in the undersotry. Some deer activity in here. The well pad to the south haas aspen coming in, believe would get a good mix of aspen and jack pine if harvested.
29	42220 - Natural Jack Pine	High Density Log	4.0	45	81-110	Brachen fern/blueberry ground cover. Stand is older and has several blow downs. Less regenerataion in the understory. Open areas to the north have been coming back to aspen. Harvest site and get a jack pine/aspen mix.
31	42210 - Natural Red Pine	High Density Pole	3.8	38	51-80	Red pine with heavy jack pine regeneration in the understory. The jack pine seems to be filling in around the red pine and tapering into the surrounding lowland areas. No signs of being a plantation, Recommend harvest due to access restrictions.

S t	Roscommor	Roscommon Mgt. Unit			– Forested	Stands Compartment: 075 Year of Entry: 2015
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
32	42220 - Natural Jack Pine	High Density Pole	2.0	21	1-50	
35	42110 - Planted Red Pine	High Density Log	2.2	82	81-110	Just into sawlog class but some 16 inch red pine throughout. No regeneration except for some scattered jack pine. Can make out some forms of rows. No records of planting by use but to the west there is plantations on private property also.
36	4113 - R.Maple, Conifer	Low Density Log	1.7	88	51-80	Brachen fern ground cover with no understory regeneration except for red pine seedlings under the red pine overstory. About 1/2 acre cleared spot on the west side that is part of a well pad for the well pump that is on the immediately adjacent private property.
37	42220 - Natural Jack Pine	High Density Pole	4.3	35		Brahen/blund cover. Jack pine heavy with scattered red pine throughout. Just into the pole sized class with heavy jack pine regeneration. No signs was a plantation. Harvest stand will get good jack pine regenerationback post-harvest
38	42110 - Planted Red Pine	High Density Log	2.4	82	171-200	Brachen and blueberry ground cover. No regeneration of red pine or any species except for a quater acre open area on the east side filling in with red pine. Can make out some assemblance of old rows. No records of us doing plantings but there are similiar stands on the private property to the west. Harvest the site to stimulate regeneration.
42	6111 - Lowland Balsam Poplar	Low Density Pole	2.9	64		All the ash is dead, was not much anyway. Poor site not well drained. Some regeneration of BAM but is light. May respond to a harvest but would need to be done in the winter but some issue involved.
43	4133 - Aspen, Mixed Pine	Low Density Log	20.1	77	51-80	Brachen fern and blueberry ground cover with an overmature aspen overstory. Very little regeneration of it and what is there is getting hit by deer. The red pine and maple are thicker and are around the perimeter.
45	42210 - Natural Red Pine	Medium Density Pole	3.0	35	1-50	Lower ground with some tag alder and leatherleaf. Looks to be natural red pine.
49	42110 - Planted Red Pine	Medium Density Log	2.2	75	51-80	Branchen fern and blueberry ground cover. Ground undulates and several large with pine stumps from logging days. Can just make out rows in some areas. Regeneration is minimal with just a few spots of red pine otherwise understory is barren.
50	6126 - Lowland Jack Pine	High Density Pole	1.7	33		Leatherleaf ground cover. No other species besides jack, could harvest and get good jack pine regeneration back.
51	42220 - Natural Jack Pine	Low Density Pole	1.4	33	51-80	Brachen fern ground cover. Majority of the stand is jack pine with its regeneration in the understory. Several open areas with no regeneration. Red pine is large stuff mainly and found at the east end.

S t	Roscommo	n Mgt. Unit		Report 8	– Forested	Stands Compartment: 075 Year of Entry: 2015
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
52	6126 - Lowland Jack Pine	High Density Pole	3.1	49	51-80	Undulating ground with high and low areas. Mainly jack pine with some blask spruce mixed in. Some regeneration of both also. The stand is close to rotation age and there is access issues so should try and treat now.
54	4130 - Aspen	Low Density Log	9.1	80		Higher ground with brachen ground cover. Fringes contain red pine and on highest ground overmature aspen dying off with no regeneration. Would benefit from a harvest.
55	42110 - Planted Red Pine	High Density Log	10.8	77	141-170	Appears to be an old plantation more than like planted by the people who did the ones on private property to the west. No records of the DNR doing them. There is a 1/2 acres leatherleaf bog within its boundary. Good site for a harvest.
56	42140 - Planted Mixed Pine	Medium Density Pole	11.8	73	81-110	Lower ground with leatherleaf. The red pine appears to be in rows from a past planting. No record of us doing this but there ae similiar plantations on the private property to the west. Lower ground so the red is not as good and more natural jack pine has filled into the open areas. In transition from pole to saw.
59	6113 - Lowland Maple	High Density Pole	2.6	35	1-50	Small diameter just coming into poles. Slightly lower ground as transitions from red pine to west and cattails to the east.

Compartment: 075

Year of Entry: 2015

NATUR

Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
3	6220 - Alder/willow	7.7	No	Unspecified	Tag alder edge along the Dead Stream.
8	50 - Water	33.3	No	Unspecified	Dead Stream
11	6220 - Alder/willow	99.2	No	Unspecified	Tag alder edge along the Dead Stream.
12	6229 - Mixed lowland shrub	100.9	No	Unspecified	Dogwood outflooding from the Dead Stream.
18	6220 - Alder/willow	112.1	No	Unspecified	tag alder with reed canary grass
19	6220 - Alder/willow	74.5	No	Unspecified	Leatherleaf bog with some sporadic jack pine on higher hummocks.
20	6225 - Bog	11.5	No	Unspecified	Leatherleaf bog
23	6220 - Alder/willow	44.5	No	Unspecified	Tag alder
26	11 - Low Intensity Urban	1.1	Yes	High (NonForested)	Well pad Enterprise Tract 11-8.
28	6220 - Alder/willow	243.0	No	Unspecified	Tag alder with reed canary grass. Sporadic jack pine abd red maple on slightly higher elevations amongst the low ground.
30	11 - Low Intensity Urban	1.1	Yes	High (NonForested)	Well pad, Enterprise Tract 11-3
33	3301 - Low Density Deciduous Tree	6.0	No	Unspecified	Higher ridge with grass and brachen ground cover. There is some red maple multi-stemmed clumps and other tree species, but very light and scattered about.
34	11 - Low Intensity Urban	1.2	Yes	High (NonForested)	Well pad with pumper. Enterprise Unit 11-9, Merrit Energy.
39	11 - Low Intensity Urban	1.6	Yes	High (NonForested)	Well pad with pumper from Merit Energy. Enterprise Unit Tract 11-6.
40	11 - Low Intensity Urban	3.8	Yes	High (NonForested)	This is the well access road for all the well pads north of Haymarsh Creek. Buried petroleum and electrical lines along the edge.
41	11 - Low Intensity Urban	1.0	Yes	Medium (NonForested)	Well pad for Enterprise 11-4, Meritt Energy Company

Report 9 – Nonforested Stands

Compartment: 075 Year of Entry: 2015



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
44	6220 - Alder/willow	22.9	No	Unspecified	All the overstory trees (10-20 B.A.) were ash that have died from the bore. All that is left is tag alder and reed canary grass. Haymarsh Creek runs thru the middle. Creek 20 foot wide and 1+ foot deep of water.
46	11 - Low Intensity Urban	2.2	Yes	High (NonForested)	Access Road and well pad with pumper (Enterprise Tract 11- 7). The access road to the well sites also has buried electrical and petroleum lines along the edges.
47	6225 - Bog	11.3	No	Unspecified	Leatherleaf bog
48	50 - Water	280.4	Yes	Medium (NonForested)	Dead Stream Flooding. Heavy cattail along edges with no signs of phragmites.
53	6220 - Alder/willow	18.0	No	Unspecified	Tag alder with reed canary grass.
57	6220 - Alder/willow	14.0	No	Unspecified	Lowland brush with a narrow strip of spruce at the west tip. Must be just slightly higher ground.
58	6225 - Bog	3.2	No	Unspecified	Leatherleaf bog with sporadic jack pine saplings.