

Roscommon Forest Management Unit<br/>Compartment Review PresentationCompartment #11Entry Year: 2014Compartment Acreage: 673County: Roscommon

**Revision Date:** 7/31/2012

Stand Examiner: Doug Bates

Legal Description: T24N R02W Section 04 & 05

Identified Planning Goals: AuSable Outwash Eco-Regional Management Area

**Management Goals:** Gradually remove the overmature jack pine to help prevent a jack pine budworm outbreak and stagger the age class in the area. There will be species diversity in a range of early and late succession ecosystems/timber types.

**Soil and Topography:** Terrain is largely flat to gently rolling. Soils are mainly Grayling sand on the upland areas with Lupton muck in the lower.

**Ownership Patterns, Development, and Land Use in and Around the Compartment:** The compartment borders the east side of the Village of Roscommon. It is a solid block of state land with no private in holdings but is surrounding by private on all sides but the east which abuts state land. The portion of the compartment north of M-18 borders U.S. Forest Service lands. Most of the private is smaller parcels with mainly permanent residences with a few seasonal.

**Unique, Natural Features:** The South Branch of the AuSable River flows through the south end of the compartment. The Tisdale Triangle Pathway (cross-country ski trail) meanders throughout the entire compartment with two parking lots on either ends.

Archeological, Historical, and Cultural Features: None designated. There is an old narrow gauge railroad bed traversing the compartment.

Special Management Designations or Considerations: None noted or proposed as the result of fieldwork.

Watershed and Fisheries Considerations: Protect the water quality of the South Branch of the AuSable River.

**Wildlife Habitat Considerations:** Maintain ecosystem diversity in the compartment via habitat manipulation to benefit game species such as deer, grouse, rabbits, turkeys, as well as other non-game species.

**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 400 and 600 feet. Beneath the glacial drift is the Mississippian Michigan Formation that is quarried for gypsum in other areas of the State. Most of the good gravel pits are associated with upland areas. The nearest gravel pit is one-half mile to the south. There may be some potential on the upland areas. St. Helen Field lies four miles

to the southeast. The field has produced over 8.7 million BO and 14.7 Bcf gas from the Devonian Richfield Formation. It is in secondary recovery operations currently. All of the State minerals in the compartment are currently leased.

**Vehicle Access:** Both management and general public access is good with county roads bordering three sides and a seasonal county road bisecting the compartment north and south. However, the Tisdale Triangle pathway is closed to all public motorized vehicles.

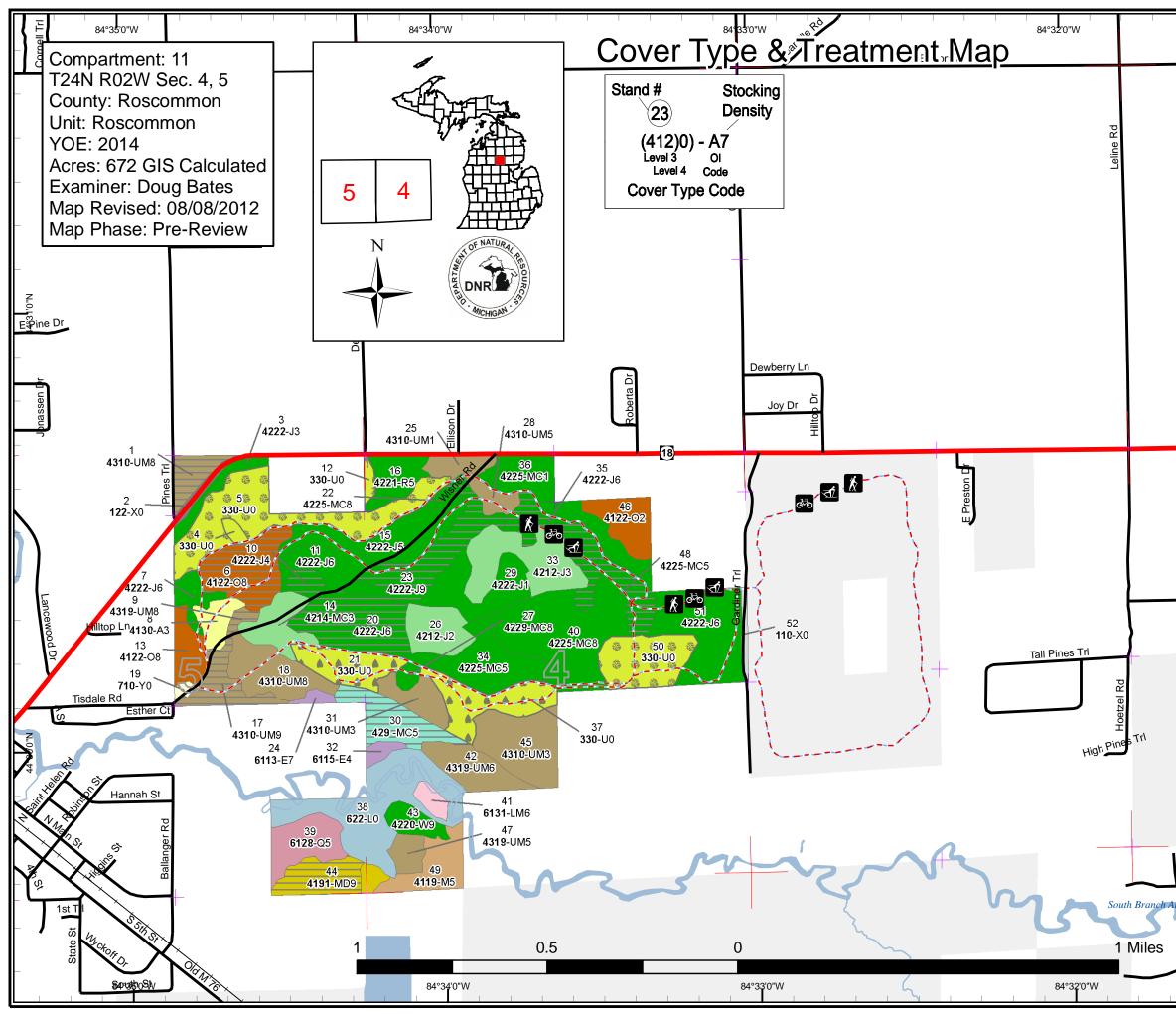
Survey Needs: No survey work currently needed.

**Recreational Facilities and Opportunities:** The Tisdale Triangle Cross Country Ski Pathway with its two parking lots. Also present is the AuSable river recreation uses from fishing to canoeing.

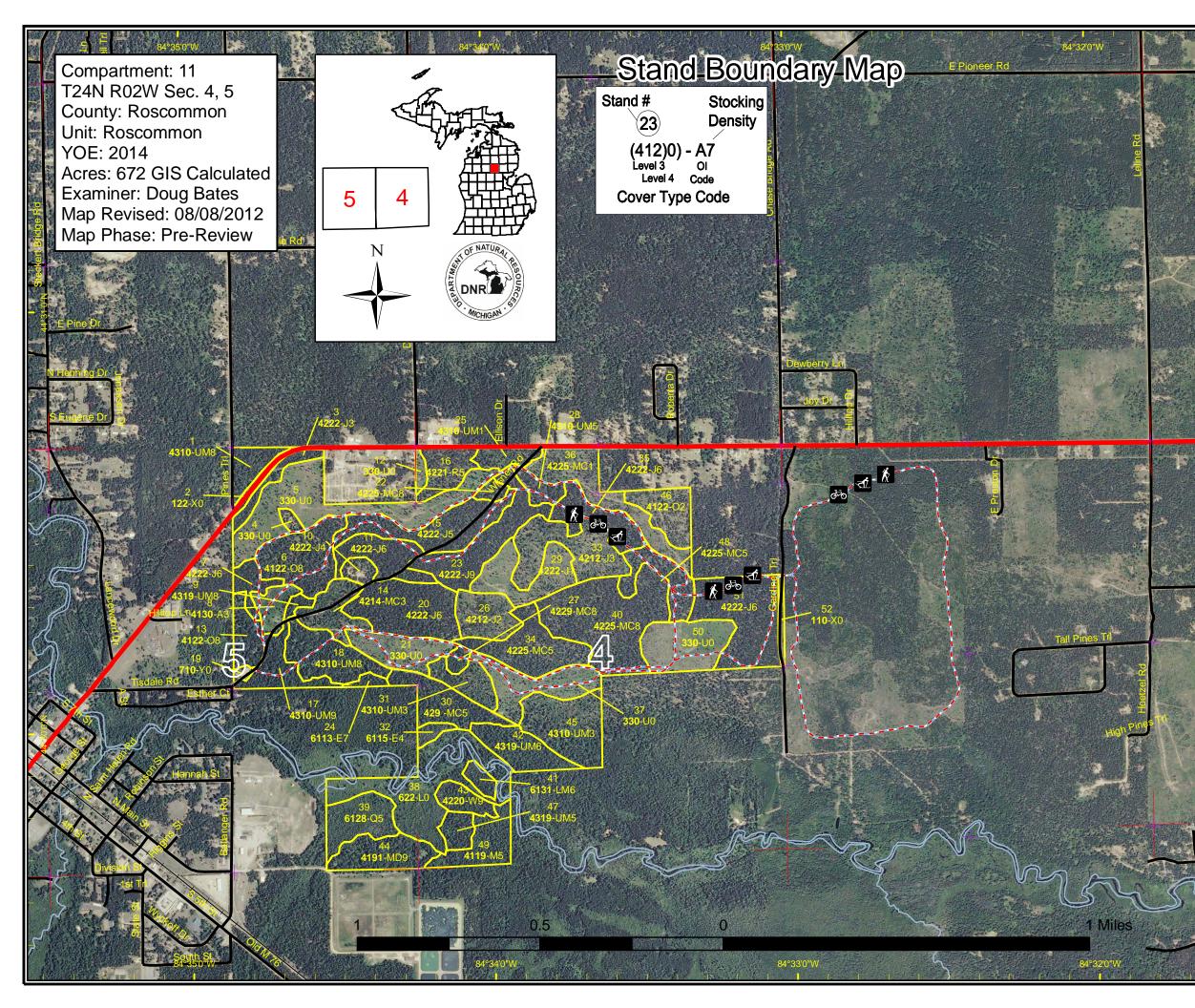
**Fire Protection:** The compartment is in an urban wildland interface with a very heavy component of jack pine with a high percentage of this either at or overmature. The close proximity to an urban settings also brings with it heavy public interaction and potential for escaped fires, yet good vehicle access and close proximity to the Roscommon DNR Field Office helps mitigate this.

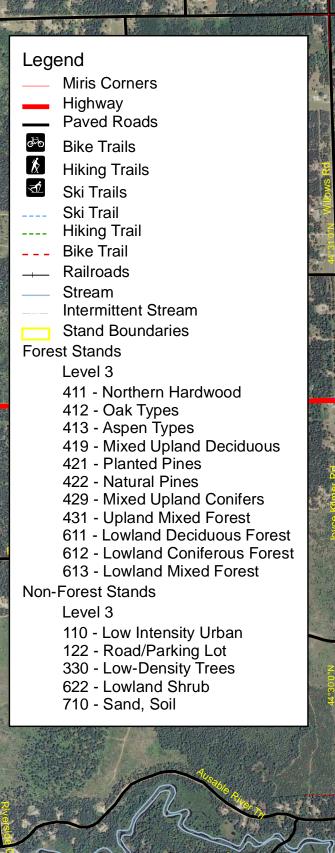
Additional Compartment Information: Visual management and harvesting protection was implemented along the Tisdale Triangle Pathway. Should a jack pine budworm outbreak occur in the compartment, the current proposed stands for harvest may be cut early along with other jack pine stands that were not designed for treatment this rotation.

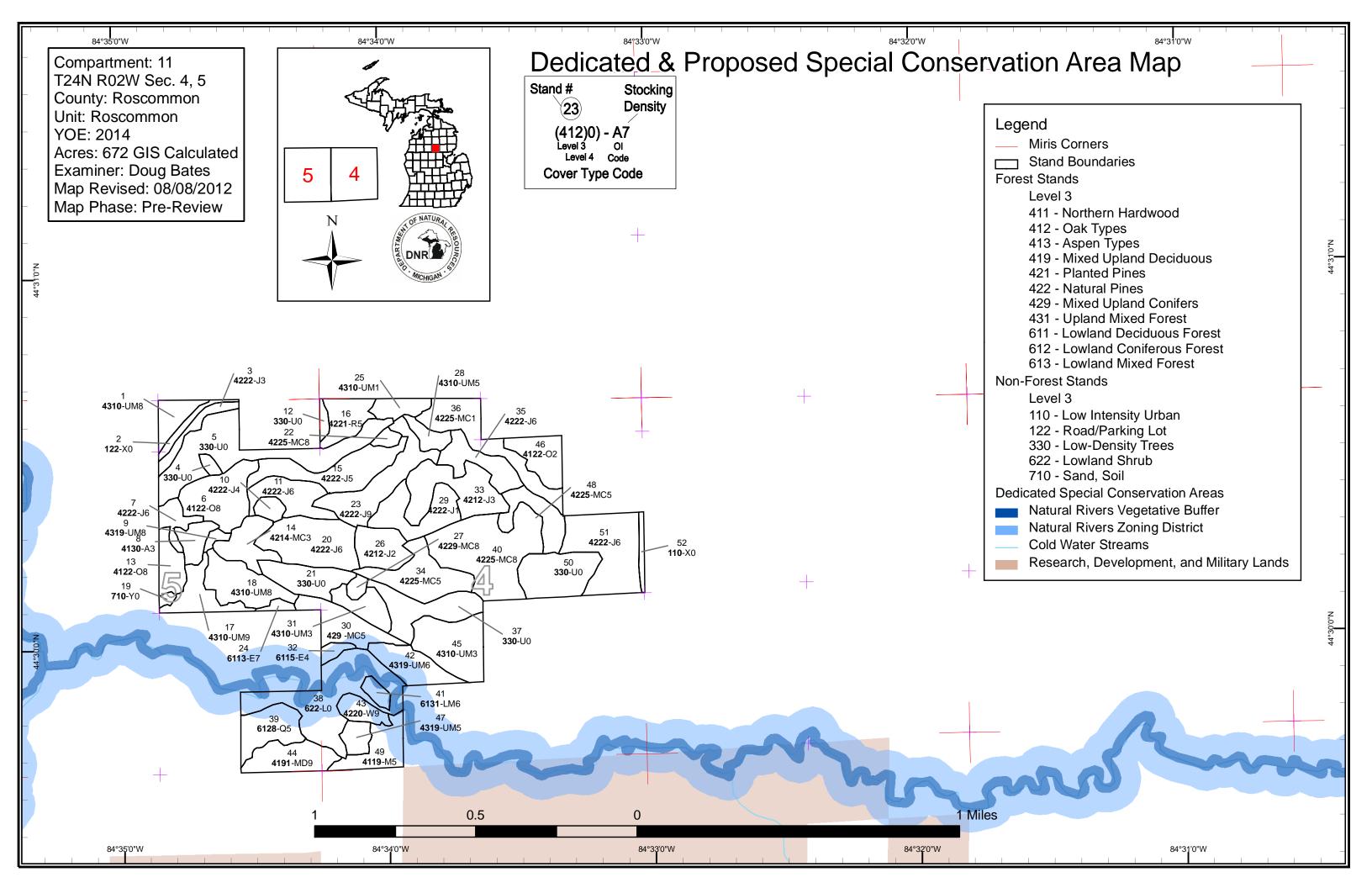
- > The following reports from the Inventory are attached:
  - Total Acres by Cover Type and Age Class
  - ♦ Proposed Treatment Summary
  - Proposed Treatments No Limiting Factors
  - Proposed Treatments With Limiting Factors
  - Stand Details (Forested and Nonforested)
  - Dedicated and Proposed Special Conservation Areas
- > The following information is displayed, where pertinent, on the attached compartment maps:
  - Base feature information, stand boundaries, cover types, and numbers
  - Proposed treatments
  - Details on the road access system



	Legend Miris Corners Highway Paved Roads Railroads Railroads Bike Trail Ski Trail Hiking Trail State Highway Bike Trails Ki Trails Ski Trails Ski Trails Lakes and Rivers	44°31'0''N
Buck Rd	Treatments Clearcut (w/Reserves, Patch/Strip) Planting (tree species) Planned Regeneration Natural Planted Forest Stands Level 3 411 - Northern Hardwood 412 - Oak Types 413 - Aspen Types 419 - Mixed Upland Deciduous 421 - Planted Pines 422 - Natural Pines 429 - Mixed Upland Conifers 429 - Mixed Upland Conifers 431 - Upland Mixed Forest 611 - Lowland Deciduous Forest 612 - Lowland Coniferous Forest 613 - Lowland Mixed Forest Non-Forest Stands Level 3	red Trl
Riverside Ct Sable Rive	<ul> <li>110 - Low Intensity Urban</li> <li>122 - Road/Parking Lot</li> <li>330 - Low-Density Trees</li> <li>622 - Lowland Shrub</li> <li>710 - Sand, Soil</li> <li>State Forest Land</li> </ul>	ice Dr –
	84°31'0"W	_







# Table 1 – Total Acres by Cover Type and Age Class

Roscommon Mgt. Unit Douglas Bates : Examiner Compartment 011 Year of Entry 2014

DRR MICHIGAN

Age Class																
	/	6.0	0 <sup>,70</sup>	52 72	67. 69.	40.49		00 00	10	8 <sup>38</sup> 8	8. 19. 19. 19. 19. 19. 19. 19. 19. 19. 19	601.001	611.01.	NON THE	AB AB	643
Aspen	7	0	0	0	0	0	0	0	0	0	0	0	0	0	7	
Jack Pine	17	12	0	4	0	0	30	72	35	0	0	0	0	23	193	
Low-Density Trees	92	0	0	0	0	0	0	0	0	0	0	0	0	0	92	
Lowland Conifers	0	0	0	0	14	0	0	0	0	0	0	0	0	0	14	[
Lowland Deciduous	0	0	3	0	0	0	0	0	0	0	2	0	0	0	4	
Lowland Mixed Forest	0	0	0	0	0	0	0	0	3	0	0	0	0	0	3	[
Lowland Shrub	38	0	0	0	0	0	0	0	0	0	0	0	0	0	38	
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	15	0	0	0	0	0	15	
Natural Mixed Pines	22	0	0	0	0	0	0	32	46	0	0	0	0	0	101	
Northern Hardwood	0	0	0	0	0	0	0	0	13	0	0	0	0	0	13	
Oak	12	0	0	0	0	0	0	0	8	21	0	0	0	0	41	
Planted Mixed Pines	0	12	0	0	0	0	0	0	0	0	0	0	0	0	12	
Red Pine	0	0	0	0	0	11	0	0	0	0	0	0	0	0	11	
Sand, Soil	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
Upland Conifers	0	0	0	0	0	0	0	0	0	0	15	0	0	0	15	
Upland Mixed Forest	0	37	0	0	0	0	0	7	35	21	0	0	0	0	99	
Urban	6	0	0	0	0	0	0	0	0	0	0	0	0	0	6	
White Pine	0	0	0	0	0	0	0	0	6	0	0	0	0	0	6	l
Total	195	62	3	4	14	11	30	111	162	41	17	0	0	23	672	



# Table 2 – Proposed Treatment Summaries

. MICHIGAN .	Roscommon Mgt. Unit Year of Entry 2014										Compartment Total Compartment Acres:	
			A	Acres	by T	reatme	ent Ty	ре				
	Commercial Harvest - 144	Site Prep - 0		Tr	ee Pl	anting	- 2		Presc	ribed Burn - 0	Other - 0	
	Habitat Cut - 0	Opening Maintena	ance - 0	Tr	ree Se	eeding	- 0		Pesti	cide - 0		
				Cove	er Typ	be by ⊦	larves	st Meth	od			
	Contraction of the second seco											
	Jack Pir	ne	64	0	0	0	0	0	64			
	Mixed U	Ipland Deciduous	12	0	0	0	0	0	12			
	Natural	Mixed Pines	12	0	0	0	0	0	12			
	Oak		21	0	0	0	0	0	21			
	Upland	Conifers	15	0	0	0	0	0	15			
	Upland	Mixed Forest	21	0	0	0	0	0	21			
		Total	144	0	0	0	0	0	144			

S t			Roscom	mon Mgt. Unit	Tabl			ents Prescrit ting Factor	bed	Compartment: 011 Year of Entry 2014	OF NATURAL PRODUCTS
a n d		tment ame	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
1	71011	001-Cut	7.3	4310 - Pine, Oak Mix	Medium Density Log	94 9	81-110	Harvest	Clearcut with Reserves	4122 - Oak, Pine	Cmpt. Review Proposal
Preso Speca		approxim Longtern	nately 20 b n MO=> A	harvest with reserves. basal area of red pine A natural mix of oak ar be met by individual le	and oak of la nd pine	arger siz	e evenly o			oak over five inch dbh. d visual along M-18.	Leave
<u>Other</u> Comr	<u>r</u> ments:										
<u>Next</u> <u>Steps</u>	<u>s:</u>	An oak/p survey.	ine mix is	an acceptable cover t	type. Interpla	ant with	red pine if	natural regenera	tion does not meet	stocking levels followi	ng regeneration
Propos Start [		10/01/201	3								
6	71011	006-Cut	20.9	4122 - Oak, Pine	Medium Density Log	95 J	81-110	Harvest	Clearcut with Reserves	4122 - Oak, Pine	Cmpt. Review Proposal
Preso Spec	•	average Longtern	of no more n MO=> S	e than 20 basal area o Stand regeneration of	of oak specie mixed oak w	s in the ith aspe	stand. Wh n and pine	nen can, mark the scattered throug	e large wolfy ones fo hout.	rk additional pin oaks or mast. ention precentage(3-5	·
<u>Other</u> Comr	<u>r</u> ments:	Protect t	he cross c	ountry ski trail from h	arvest operat	tions by	boundary l	ine placement wl	here applicable and	contract specification	IS.
<u>Next</u> Steps		A mix of	oak and p	ine is acceptable. Pla	ant with conif	er if nati	ural regene	eration does not r	meet stocking levels	S.	
Propos Start [		10/01/201	3								
9	71011	009-Cut	1.8	4319 - Mixed Upland Forest	Medium Density Log	75 ]		Harvest	Clearcut with Reserves	4113 - R.Maple, Conifer	Cmpt. Review Proposal
Preso Spec:		pine. Longtern	n MO=> N	est all species to a 2 i /laple/oak/pine mix to small size and leav			0	ptions: Remove	only oaks 5 inch db	h and up and Do NO <sup>⊤</sup>	Γ cut any red
<u>Other</u> Comr	<u>r</u> ments:										
<u>Next</u> Steps											
Propo Start [		10/01/201	3								
10	71011	010-Cut	3.6	42220 - Natural Jack Pine	Low Density Pole	31		Harvest	Clearcut	42110 - Planted Red Pine	Cmpt. Review Proposal
Preso Spec		Longtern	n MO=> Pl	nas steep sidewalls ar lanted jack pine degrade site to be reh		ne. Har	vest what is	s accessible to a	two inch d.b.h		
<u>Other</u> Comr	<u>r</u> ments:		-	ave site planted by an		project	or other co	mmunity event.			
<u>Next</u> Steps				in to create a shallow some vegetation but a					jack pine. Site will	have little topsoil. Th	is site is an old
	sed										

Roscommon Mgt. Unit

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

Compartment: 011 Year of Entry 2014



S t a			ion mgi. omi	Tubi			ting Factor		Year of Entry 2014	DNR MICHIGAN
n Tr	eatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
17 710	11017-Cut	11.5	4310 - Pine, Oak Mix	High Density Log	85		Harvest	Clearcut with Reserves	4121 - Oak, Aspen	Cmpt. Review Proposal
<u>Prescriptic</u> <u>Specs:</u>	across th natural fr Longtern	ne ski trail. rom soil sca n MO=> M		generation in r during harve terplanted re	the jacl est. The d pine.	k pine or o e aspen clo	ak species. Will ones will come ba	have a mix of oak ack nicely and add		
<u>Other</u> Comments		he cross co	ountry ski trail from h	arvest operat	ions by	boundary l	line placement wi	here applicable and	d contract specifications	3.
<u>Next</u> <u>Steps:</u>	Trench th	he site and	interplant red pine.	Do not trench	across	the ski tra	il and trench arou	und any aspen/oak	regeneration present.	
Proposed Start Date:	10/01/201	13								
20 710	11020-Cut	25.5	42220 - Natural Jack Pine	High Density Pole	71		Harvest	Clearcut with Reserves	42221 - Natural Jack Pine, Mixed Deciduous	Cmpt. Review Proposal
<u>Prescriptic</u> Specs:	Longtern	n MO=> Ja	cut with reserves. Reack pine with oak mix retention along the x					ent.		
<u>Other</u> Comments		he cross co	ountry ski trail from h	arvest operat	ions by	boundary l	line placement wi	here applicable and	d contract specifications	3.
<u>Next</u> <u>Steps:</u>	Interplan	t with jack	pine should stocking	levels fail the	e regene	eration surv	vey.			
Proposed Start Date:	10/01/201	13								
23 710	11023-Cut	21.7	42220 - Natural Jack Pine	High Density Log	75		Harvest	Clearcut with Reserves	42220 - Natural Jack Pine	Cmpt. Review Proposal
<u>Prescriptic</u> <u>Specs:</u>	white oal stimulan Longtern	ks for mast t for x-c ski n MO=> Na	if present. Also do r trail users. atural jack pine with c	not cut any re bak mix	d pine c	over 14 inc	hes dbh. The red	d pine is for diversi	5 inches dbh and larger ty/legacy and will provid size jack pine to leave a	le a visual
<u>Other</u> Comments		he cross co	ountry ski trail from h	arvest operat	ions by	boundary l	line placement wi	here applicable and	d contract specifications	3.
<u>Next</u> <u>Steps:</u>	Interplan	t with jack	pine is stocking level	s fail the rege	eneratio	n survey.				
Proposed Start Date:	10/01/201	13								
30 710	11030-Cut	15.2	429 - Mixed Upland Conifers	Medium Density Pole	100	81-110	Harvest	Clearcut with Reserves	42121 - Planted Jack Pine, Mixed Deciduous	Cmpt. Review Proposal
<u>Prescriptic</u> <u>Specs:</u>	regenera Longtern	ntion. n MO=> Ja	harvest with reserves ck pine with oak mix e an island to meet 3		cies to 2	2 inches dt	oh. Leave all jack	<pre>&lt; pine tops scattered</pre>	ed throughout sale for n	atural
<u>Other</u> Comments	_	with jack of	ne in open areas to t	oring stand to	require	d stocking	level should not	iral regeneration fo	il	
<u>Next</u> <u>Steps:</u> Prepaged	Teplailt	ννιτι jack μι	חיב זוו טייבוי מופמס נט ג	ning stand to	require	a stocking		arai regeneration la	m.	
Proposed Start Date:	10/01/201	13								

Roscommon Mgt. Unit

# Table 3 - Treatments Prescribed with No Limiting Factor

Compartment: 011 Year of Entry 2014



s with No Limiting Factor								Year of Entry 2014	DNR DNR		
a n d	Treatme Name	nt Ac	res	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
35	71011035	Cut 12	2.9 4	12220 - Natural Jack Pine	High Density Pole	75		Harvest	Clearcut with Reserves	42221 - Natural Jack Pine, Mixed Deciduous	Cmpt. Review Proposal
Presc Specs	<u>s:</u> Lor Ret	gterm MC ention=>	)=> Natur Look at tr	with reserves. Re al jack pine with o ying to leave reten crcent retention gui	ak mix ition as pock					mast/diversity. an individual leave tree	e within the
<u>Other</u> Comn	_ Pro nents:	tect the c	ross coun	try ski trail from ha	arvest opera	tions by	boundary li	ine placement wh	nere applicable and	d contract specification	5.
<u>Vext</u> Steps		rplant wit	h jack pin	e to meet stocking	levels shou	ld the si	te fail the re	egeneration surve	ey.		
ropos tart D		1/2013									
44	71011044	Cut 12		4191 - Mixed pland Deciduous with Conifer	High Density Log	88 J	111-140	Harvest	Clearcut with Reserves	4191 - Mixed Upland Deciduous with Conifer	Cmpt. Review Proposal
<u>Presc</u> Specs	<u>s:</u> visu Lor	al. Mark gterm MC	some ade )=> Natur	all species to a two ditional white oak t al oak/pine mix. ge will be met by l	rees that wi	l act as	good mast	sources and rete		and white pine for legac	y trees and
<u>Other</u> Comm	nents: Acc	ess will n	eed to be	I not affect the regulation of the received from the opping public traffic	Village of R	oscomn	non Public	Works to get to th		e has not been moved t	o the property
<u>Next</u> Steps	<u>:</u>										
ropos tart D		1/2013									
48	71011048	<b>Cut</b> 11	.9 42	2250 - Pine, Oak	Medium Density Pole	75	111-140	Harvest	Clearcut with Reserves	42221 - Natural Jack Pine, Mixed Deciduous	Cmpt. Review Proposal
Presc Specs	<u>s:</u> Lor	gterm MC	)=> Natu	vest with reserves ral pine with an oa etention strip along	ık mix						
Other Comm	_ Pro nents:	tect the c	ross coun	try ski trail from ha	arvest opera	tions by	boundary li	ine placement wh	nere applicable and	d contract specification	S.
<u>vext</u> Steps				ration stocking levent				a good one to int	erplant red pine to	meet the stocking leve	els. Would give
<u>ropos</u> tart D		1/2013									
12	NF_71011 Plant	<b>)12-</b> 1	.9 33	02 - Low Density Conifer Trees				Tree Planting	Hand Plant	42110 - Planted Red Pine	Cmpt. Review Proposal
Presc Specs	<u>ription</u> Tre <u>s:</u>	nch and p	lant to re	d pine.							
<u>Other</u>	nents:										
<u>Vext</u> Steps	<u>:</u>										

146.2 Acreage Proposed:

Roscommon Mgt. Unit Table 4 Treatments Prescribed wi s a Limiting Factor								with	Compartment: 011 Year of Entry 2014	DRATURE CHARLES
a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
			#Error							
Presc Specs	ription <u>s:</u>									
<u>Other</u> Comn										
<u>Next</u> Steps	-									
<u>Propos</u> Start D										
	ng Factor and N ment Reason	<u>lo</u>								
Ac	Total Treatme creage Propose									

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#### Out of YOE -- Treatments Prescribed with No Limiting Factor

	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
Pres Spe	scription_ cs:									
<u>Othe</u> Con	er_ iments:									
<u>Nex</u> Step										
	<u>oosed</u> <u>t Date:</u> #Error									

Total Treatment Acreage Proposed:

0

S t	Roscommon Mgt. Unit			5 – Fo	prested Sta	Ands Compartment: 011 Year of Entry: 2014
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	4310 - Pine, Oak Mix	Medium Density Log	7.3	94	81-110	Good oak regeneration of pin oak. The red and jack pine is good also. The northline adjoins the U.S.F.S. and they have just completed a survey of the line and brushed it out in the process.
3	42220 - Natural Jack Pine	High Density Sapling	5.5	74		Mixed stand along M-18. Poor quality in all species but can hold another ten years for visual along stand 5.
6	4122 - Oak, Pine	Medium Density Log	20.9	95	81-110	Oak is dying out. Some oak regeneration in understory. Need to open stand up and get some stump sprouting off of the oak stumps.
7	42220 - Natural Jack Pine	High Density Pole	6.1	74		Stand is still in good condition. Regeneration is good and can be left for another 10 years to stagger the age class in the area.
8	4130 - Aspen	High Density Sapling	6.6	4		Good aspen regeneration. Was harvested in the winter 2007/2008.
9	4319 - Mixed Upland Forest	Medium Density Log	1.8	75		The jack pine is dying out and the heaviest regeneration is the red maple.
10	42220 - Natural Jack Pine	Low Density Pole	3.6	31		Site is an old gravel pit that is sparsely vegetat4ed and experiencing soil erosion and other site damages by illegal vehicle activity. Large 4x4 trucks are climbing the banks of the pit and making trails all around the exterior of site.
11	42220 - Natural Jack Pine	High Density Pole	13.8	84		Stand is still in good health and can hold another ten years before harvest to stagger age classes in compartment.
13	4122 - Oak, Pine	Medium Density Log	8.4	85	51-80	Hold for another 10 years to stagger age classes in compartment.
14	42141 - Planted Mixed Pine, Mixed Deciduous	High Density Sapling	11.8	15		Trenched and planted in 1997 to red pine. The red pine survival was marginal on this site. Heavy natural jack pine regeneration came back giving a good mix of species. Leave the scattered log sized oak trees because cause to much damage trying to remove.
15	42220 - Natural Jack Pine	Medium Density Pole	21.7	84		There is decent oak regeneration but is very sparse in the pine species. There are smaller sized pine poles. Leave for another ten years before harvesting because the understory does not appear to be affected by the overstory. This will stagger age classes in the compartment and provide a visual buffer until the adjoining site reestablishes itself.
16	42210 - Natural Red Pine	Medium Density Pole	10.6	55	51-80	All the jack pine and oak was removed in 2008. The basal areas/size does not warrent any treatment.
17	4310 - Pine, Oak Mix	High Density Log	11.5	85		Oak and aspen declining along with die off of the saw sized jack pines. The overstory is falling apart and the regeneration is sparse and very mixed. Need to open the site up to release the oak and aspen regeneration.

S t	Roscommon Mgt. Unit			5 – Fo	prested Sta	Inds Compartment: 011 Year of Entry: 2014
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
18	4310 - Pine, Oak Mix	Medium Density Log	17.8	85		There is heavy white pine regeneration in the understory. The overstory consists of white pine and mature pin oak. The west end of stand is thinner in canopy and has white spruce regeneration. The stand will hold for another ten years and then it should be harvested. This will allow for age class diversity in compartment.
20	42220 - Natural Jack Pine	High Density Pole	25.5	71		Very poor regeneration coming in. The jack pine appears to be stagnanting and should have the overstory removed to help stimulate this and stagger the age class for the compartments jack pine component.
22	42250 - Pine, Oak	Medium Density Log	2.4	88	51-80	Even mix of both oak and jack pine but on the slightly sparser side. Leave for now as a visual and break up the harvesting foot print within the compartment this YOE. Surrounding stands have a higher priority. Will hold till next rotation when it should be harvested.
23	42220 - Natural Jack Pine	High Density Log	21.7	75		The jack pine and oak are overmature. There is good jack pine regeneration and should come in nicely once the overstory is removed.
24	6113 - Lowland Maple	Low Density Log	1.8	105		Lowland hardwood type with sawlog size red maple as the main overstory. Overstory maple is dying off but there is good regeneration of it in the understory mixed with heavy balsam fir component. Does have a tag alder so the site is poorly drained, It is bisected by an old railroad grade that is built up about 15 feet above the ground level. Where fil Iwas dug out to make the road bed created a small vernal pond on one side, Best to leave the site for now and let it take care of itself. It will revegetate on its own. Fear too much damage would be done to the stand to try and harvest its small volume and may actually set back regenerating.
25	4310 - Pine, Oak Mix	Low Density Sapling	6.3	16		Was harvested, trenched, and replanted to red pine in 1996 but failed. The regeneration is good but it is an even mix of jack pine and oak. Can't discern it was a plantation except for some areas where the red pine are in rows for a short distance. The jack pine grew back into the trenches thick in spots. Some scattered pole sized red pine and oak left post harvest but will leave because volume does not justify the damage to the regeneration trying to harvest it.
26	42121 - Planted Jack Pine, Mixed Deciduous	Medium Density	12.3	16		Stand was harvested, trenched, and planted to red pine in 1996 but failed. Very little of red pine survived. Came back good to jack pine and oak naturally. An old railroad bed bisects the stand and has been built up over 20 feet above the ground level. When they harvested they left the trees on the road bed sides to help it not to errode.
27	42290 - Natural Mixed Pine	Medium Density Log	2.4	88	81-110	This stand is a depression between two ridges. Not enough though to classify as a lowland. It has an even mix of red and jack pine overstory but neither to speak of in the understory. Heavy to red maple regeneration, which would be what comes back post harvest. Leave stand for now as a visual for the x-c ski trail that passes through it.

S t	Roscommo	n Mgt. Unit		5 – For	ested Sta	Ands Compartment: 011 Year of Entry: 2014
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
28	4310 - Pine, Oak Mix	Medium Density Pole	5.0	75		Sparse mixed stand predominantly jack pine with oak. Lot of dead oak in the overstory but good in the understory. Still should leave the stand till next rotation because adjacent stands would benefit more from a harvest this YOE and this will lessen the harvesting footprint within the compartment.
29	42220 - Natural Jack Pine	Low Density Sapling	17.2	4		Have a good carpet of jack pine seedlings mixed in with large saplings. There is no need to seed the sparse areas, they are filling in naturally.
30	429 - Mixed Upland Conifers	Medium Density Pole	15.2	100	81-110	Poor quality oak and jack pine in the sawlog sizes that is declining, Need to open up the overstory to alleviate the heavy balsam fir sub-canopy. Plant jack pine and will have scattered oak regeneration.
31	4310 - Pine, Oak Mix	High Density Sapling	8.8	15		Large sawlog sized oaks left post harvest. Both the oak and jack pine regeneration is good. Fairly even mix. Seeded with jack pine in 1997.
32	6115 - Lowland Ash	Low Density Pole	2.5	25		Very poor quality, sparse black ash with heavy reed canary grass ground cover. Inaccessible because north boundary is a feeder stream 20 feet wide going to the river which blocks access from the south. No volumes either.
33	42121 - Planted Jack Pine, Mixed Deciduous	High Density Sapling	23.1	Uneven Age		Seed tree harvested in 1996. It was then trenched and planted to red pine but failed. Leave the remaining overstory oak because removal would cause too much damage to the regeneration.
34	42250 - Pine, Oak	Medium Density Pole	20.4	71	81-110	More open stand with better oak and pine regeneration in sapling and pole sizes, Leave the stand for another 10 years then harvest to stagger age classes.
35	42220 - Natural Jack Pine	High Density Pole	12.9	75		The jack pine is overmature and there is a good mix of pine and oak in the understory. Harvest the stand now to open up the canopy to regeneration.
36	42250 - Pine, Oak	Low Density Sapling	21.8	7		Stand was harvested in the spring of 2005. Mixed stand in fair condition with more oak in the sub canopy.
39	6128 - Lowland Coniferous, Mixed Deciduous	Medium Density Pole	14.3	40		Cedars dying and no regeneration of it. Just balsam fir and some black ash. Cattails also so wet ground.
40	42250 - Pine, Oak	Medium Density Log	41.7	81	81-110	Very staggered ages in both the pine and oak. Canopy more open and getting good regeneration underneath. It will hold for another ten years even with the jack pines high ages but needs to be harvested next rotation. Leaving to break up harvest foot print from adjacent stands that are in need of treatment more this rotation.
41	6131 - Hemlock, White Pine, Maple, Birch	High Density Pole	3.3	87		Very mixed stand with poorly drained soils. It is in good shape and the age does not warrant a harvest. Leave for diversity/buffer along the river.

S t	Roscommon Mgt. Unit			5 – Fo	prested Sta	nds Compartment: 011 Year of Entry: 2014
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
42	4319 - Mixed Upland Forest	High Density Pole	13.2	92		Diverse stand in the pole size class with thick understory regeneration. Predominantly balsam fir though. Hold off for at least another ten years to get more growth in the overstory and maybe the undrstroy will have thinned so there would be less damage to it from harvest operations.
43	42200 - Natural White Pine	High Density Log	6.2	87	141-170	Stand still in good condition with good regeneration. It can hold for another ten yers, Could be left also for diversity along the river because of the poor access restrictions. There is approximately 2-3 acre pure cedar stand on the west side which looks good for cover.
44	4191 - Mixed Upland Deciduous with Conifer	High Density Log	14.7	88	111-140	Leave the large white and red pines, harvest the rest to open up the understory regeneration. Supercanopy trees will not affect the regeneration and would be good for visual.
45	4310 - Pine, Oak Mix	High Density Sapling	22.3	15		Good regeneration that was seeded with jack pine in 1997. There is supercanopy oaks left from the harvest that are starting to die. There was a high percentage left but damages caused to the understory by trying to remove them far out weighs the benefit of their removal.
46	4122 - Oak, Pine	Medium Density	12.0	7		Stand was final harvested in spring in 2005. The oak regeneration is heavier in both canopy and sub-canopy. Will be a good mixed stand.
47	4319 - Mixed Upland Forest	Medium Density Pole	5.3	87		Stand is in fair shape. Would like to see more regeneration other than the balsam fir. Recheck in ten years to see if other regeneration is coming in.
48	42250 - Pine, Oak	Medium Density Pole	11.9	75	111-140	More dense jack pine with some logs but mostly is pole sized. There is jack pine regeneration in the understory. The oak in the overstory is starting to die off but is coming in good in the understory.
49	4119 - Mixed Northern Hardwoods	Medium Density Pole	12.9	88	81-110	Stand is not in decline, but would like to see more regeneration in the understory. The canopy is fairly open. Check in ten years to see if regeneration is further along and may harvest then. Will need a temporary bridge to cross a drainage channel 30 feet across that is used to discharge the final product from the Village of Roscommon waste water lagoons. Permission may need to be obtained also to cross village property to access site.
51	42220 - Natural Jack Pine	High Density Pole	29.8	66		Jack pine still showing healthy signs in the overstory, however there is very little of it regenerating. Leave for another 10 years to stagger the jack pine age classes in the compartment and give a buffer for upcoming adjacent stand harvests. It should be harvested next rotation and maybe by then more regeneration will have come in. The oak regneration is better but still large pockets throughout the stand void of any.

Roscommon Mgt. Unit

#### 6 – Nonforested Stands

Compartment: 011



Year of Entry: 2014

Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
2	122 - Road/Parking Lot	3.3	Yes	High (NonForested)	M-18
4	3301 - Low Density Deciduous Tree	1.8	No	Unspecified	This is an old gravel pit turned to dump site for some time. It has near vertical walls that are 30 feet tall. It is not feasible to try and contour to mark the site usable again.
5	3302 - Low Density Conifer Trees	37.8	Planted	Red Pine	Stand was final harvested in the winter 2007/2008. It was trenched and planted to red pine in spring 2009. There is good oak natural regeneration also,
12	3302 - Low Density Conifer Trees	1.9	Natural Regen	Red Pine	This site was final harvest in the winter 2007/2008 and has poor natural regeneration. It was supposed to have been trenched and planted to red pine with stand 5 but was overlooked.
19	710 - Sand, Soil	1.1	Yes	High (NonForested)	Tisdale cross-country ski trail parking lot.
21	3303 - Mixed Low Density Trees	13.7	Natural Regen	Oak	Good oak regeneration from both acorn and stump sprouting. Stand was final harvested in the winter 2007/2008.
37	3303 - Mixed Low Density Trees	17.9	Natural Regen	Oak	Good oak regenration coming back by acorn and stump sprouting. Was final harvested in the winter 20007/2008.
38	6220 - Alder/willow	38.4	No	Unspecified	Flood plain of the South Branch AuSable River.
50	3302 - Low Density Conifer Trees	19.4	Planted	Red Pine	Stand was final harvested in the winter 2007/2008. It was then trenched and plant to red pine in the spring 2009. Good mix of natural oak regeneration coming in also.
52	11 - Low Intensity Urban	2.3	Yes	Medium (NonForested)	Gardiner Road



### 7 – 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.

Stand	SCA Type	SCA Name	Acres	Comments



# **8 – 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.

Conservation Area	n Type	Description	ERA = Ecological Reference Area HCVA = High Conservation Value Area SCA = Special Conservation Area		
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.			
HCVA	Natural Rivers	There are two Natural Rivers datasets which are derived from spatial buffers set from an established and approved distance from the river centerlines. The Natural Rivers Zoning District is a 400 foot buffer for most Natural Rivers. The Vegetative Buffer ranges from 25 to 100 feet. To view specific Zoning Districts and Vegetative Buffers for each Natural River see the table located on the I:\Documentation\GDSE data folder.			
SCA	Research and Military Areas	These areas provide facilities and lands specifically dedicated for research, or other purposes. They include the 5,847 acre Forest Fire Experiment Station, the 12,000 acre Houghton Lake Wildlife Rese. Area, the Beaver Islands Archipelago Wildlife Research Area (that includes most of Garden Island, a High and Hog Islands, all state owned land on Beaver, South Fox and North Fox Islands), the Cusino Wildlife Research Area, the 3,000 acre Hunt Creek Fisheries Research Station, the 125 acre Wyman Nursery, and over 144,000 acres of Military Lands.			