

Roscommon Forest Management Unit<br/>Compartment Review PresentationCompartment # 46Entry Year: 2013Compartment Acreage: 1279County: Roscommon

**Revision Date:** 1/27/2011

Stand Examiner: D. Ekdom

Legal Description: T24N R1W Sections 28 & 33

Identified Planning Goals: Au Sable Outwash Management Area

**Management Goals:** Maintain current age and species diversity in a range of early and late successional ecosystems.

**Soil and Topography:** The terrain in the compartment is gently rolling and cut by two major drainages. Soils in the compartment are Roselawn and Saugatuck sands and Ottawa loamy sands on the uplands and Tawas-Lupton and Au Sable mucks and Dawson-Loxley peats in the drainages and lower ground.

**Ownership Patterns, Development, and Land Use in and Around the Compartment:** Compartment is a solid block of state land. Adjacent lands are both state and private land and the private land is mostly undeveloped and used for hunting and other recreational uses.

Unique, Natural Features: None recorded or detected during fieldwork.

Archeological, Historical, and Cultural Features: None specifically noted by HAL but one possible historical site was found during fieldwork.

**Special Management Designations or Considerations:** South Branch of the Au Sable River which just touches the west edge of Section 28, South Creek in the south ½ of Section 28, and portions of adjacent stands are HCVA's due to natural river designations of these streams.

Watershed and Fisheries Considerations: South Branch Au Sable River, South Creek, and an un-named drainage/creek in Section 33.

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

**Mineral Resource and Development Concerns and/or Restrictions:** Surface sediments consist of icecontact 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 Marshall Sandstone. The Marshall has been used as a building stone. Most of the nearby gravel pits are associated with upland areas. The nearest gravel pit is located two miles to the east. Gravel potential is thought to be limited, except in the W<sup>1</sup>/<sub>2</sub> of Section 21. St. Helen Field produces in Sections 21 and 28. 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 land in Section 28 is currently leased and held by production.

**Vehicle Access:** Vehicle access to all areas of the compartment is good via county seasonal roads, forest /oil well roads, and the snowmobile trail.

Survey Needs: None necessary at this time.

**Recreational Facilities and Opportunities:** Compartment contains portions of the St. Helen snowmobile trail/route and portions of the Geels ORV loops.

**Fire Protection:** Compartment has no recent history of major fires, low incidence of wildland-urban interface, no large concentrations of high hazard fuel types, and numerous natural barriers to fire spread.

Additional Compartment Information: Proposed treatments include 96 acres of final harvests in aspen and red pine and 150 acres of red pine thinnings. 47 acres of final harvests in aspen were set up and cut in 2010 to help balance the aspen age class distribution in the compartment and on the Roscommon FMU.

- > 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









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

Roscommon Mgt. Unit

Dale Ekdom : Examiner

## Compartment 046 Year of Entry 2013



		Age Class															
	NO	Aejseo	6.'	01.01	62. F2	201-201 201-01-	10-09	-15 <sup>-</sup>	-03 -03	10,10	49. 49. 49.	8:00 8:00	001.001	611.01,	× 42	and the second s	10.
Aspen	0	3	18	40	0	165	0	0	8	35	0	0	0	0	0	269	[
Cedar	0	0	0	0	0	0	0	0	0	0	0	79	0	0	0	79	[
Herbaceous Openland	83	0	0	0	0	0	0	0	0	0	0	0	0	0	0	83	[
Jack Pine	0	0	36	24	0	0	0	0	0	0	0	0	0	0	0	60	[
Lowland Conifers	0	0	0	0	0	0	0	0	0	2	46	29	0	0	11	88	[
Lowland Deciduous	0	0	6	0	0	11	0	0	6	8	0	0	0	0	0	30	[
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21	21	[
Lowland Shrub	83	0	0	0	0	0	0	0	0	0	0	0	0	0	0	83	ĺ
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	2	ĺ
Marsh	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22	ĺ
Mixed Upland Deciduous	0	39	2	24	0	26	0	0	0	0	18	0	0	0	30	139	ĺ
Natural Mixed Pines	0	0	0	0	0	31	0	0	1	0	0	0	0	0	35	67	ĺ
Oak	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	6	ĺ
Red Pine	0	0	0	0	0	0	0	0	149	0	0	0	0	0	13	162	[
Upland Conifers	0	0	31	22	0	0	0	0	0	0	0	0	0	0	0	53	[
Upland Mixed Forest	0	0	29	0	0	24	0	0	4	25	0	0	0	0	0	82	[
Upland Shrub	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21	1
White Pine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	11	l
Total	210	48	123	110	0	257	0	0	167	72	64	108	0	0	121	1279	



MICHIGAN	Roscommon Mgt. Unit Year of Entry 2013											Compartment Total Compartment Acres:	046 1279
					Acre	s by T	reatme	ent Ty	ре				
	Commercial Harvest - 231	Site F	Prep - 0		٦	Free Pl	anting	- 0		Pres	cribed Burn - 0	Other - 0	
	Habitat Cut - 15	Oper	ning Maintena	nce - C	) 7	Free Se	eeding	- 0		Pesti	cide - 0		
					Cov	/er Tyj	be by ⊦	larves	st Metl	nod			
	Contraction of the second of t												
	Aspen			57	0	0	0	0	0	57	ĺ		
	Natural	Mixed Pi	nes	0	0	0	0	1	0	1	I		
	Red Pine	9		13	0	0	0	149	0	162	Ι		
	Upland I	Mixed Fo	orest	25	0	0	0	0	0	25	I		
			Total	96	0	0	0	150	0	246			

S t	Roscommon Mgt. Unit		Table 3 wit	Treath No L	atments Pre imiting Fact	scribed tor	Compartment: 046 Year of Entry 2013	DR NATURAL BURNESS	
n Tre d N	atment lame	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
1 7104	6001-Cut	12.8	42210 - Natural Red Pine	High Density Log	71	Harvest	Low Thinning	42211 - Natural Red Pine, Mixed Deciduous	Cmpt. Review Proposal
Prescription Specs:	n thin to 90 as possil along S. site/flowl	) - 120 SF ble by ma Br. Au Sa ines whic	F residual to enhance irking all trees to cut able River, determine h are within/adjacent	e old growth charact (no spec. cutting), p best course of acti to the stand	teristics b paint verr ion for de	by removing a va nal ponds/depres aling with poten	ariety of size classes ar ssions out of sale. use a tial arch. site in SE corr	d species, retain bio-div adequate buffer on west ner of the stand, watch v	ersity as much side of stand <i>v</i> ell
<u>Other</u> Comments									
<u>Next</u> Steps:									
26 7104	6026-Cut	1.4	42290 - Natural Mixed Pine	High Density Log	71	Harvest	Low Thinning	42290 - Natural Mixed Pine	Cmpt. Review Proposal
Prescription Specs:	<u>1</u> thin to 14 by marki	I SF to er	nhance old growth ch es to cut (no spec. cu	arcateristics, no ret itting)	ention ot	herthan residual	I R/W pine due to small	size of the stand, retain	as biodiversity
<u>Other</u> Comments	<u>.</u>								
<u>Next</u> <u>Steps:</u>									
28 7104	6028-Cut	10.5	4319 - Mixed Upland Forest	High Density Pole	81	Harvest	Clearcut with Reserves	4134 - Aspen, Spruce/Fir	Cmpt. Review Proposal
Prescription Specs: Other	n_ final harv leave ad regenera	vest for as equate bu ition to a f	spen mgmt., cut on c iffer on South Creek fully stocked stand is	ry/frozen ground du , leave lower ground acceptable, trench	uring the d d spots w and plar	dormant season ithin stand for re nt jack pine if reg	to promote vigorous s etention, mark a few co generation fails which is	prouting and limit potenti nifers and oak for diversi unlikely	al for rutting, ty, any
Comments Next Steps:	<u>.</u>								
32 7104	6032-Cut	7.6	4130 - Aspen	Medium Density Pole	70	Harvest	Clearcut	4130 - Aspen	Cmpt. Review Proposal
Prescription Specs:	n_ final harv season c is unlikel	vest for as out to pror y	spen mgmt., no reter note vigorous sprout	ition due to small si ing, any regeneratio	ze of the on to a fu	stand and age of Ily stocked stand	of the oldest aspen, ma d is acceptable, trench	rk a few oaks for wildlife and plant RP if regenera	mast, dormant tion fails which
Other Comments									
Steps:									
37 7104	6037-Cut	13.3	42110 - Planted Red Pine	High Density Log	71	Harvest	Clearcut with Reserves	4122 - Oak, Pine	Cmpt. Review Proposal
Prescription Specs:	n final harv as neede and plan	vest and r ed, watch t red pine	nanage for oak, leav oil pipelines within a where oak regenera	e part north of two-t nd adjacent to the s tion fails to take off	rack and stand, an	buffer well site y combination of	for retention, address g f oak and pine to a fully	reen-up concern on eas stocked stand is accept	t side of stand able, trench
<u>Other</u> Comments			Č.						
<u>Next</u> Steps:	regenera	tion chec	k						

S t		Rosco	mmon Mgt. Unit	Table 3 wit	Tre th No I	atments Pres _imiting Fact	scribed or	Compartment: 046 Year of Entry 2013	AND INATURAL CHIMING
n d	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
38	71046038-Cut	7.9	4131 - Aspen, Oak	High Density Pole	45	Harvest	Clearcut with Reserves	4130 - Aspen	Cmpt. Review Proposal
Presc Specs	<u>ription</u> final harv <u>::</u> trees, ad aspen in	vest for Idress g the sta	aspen mgmt., mark oa reen-up concerns on th nd, any regeneration to	k SL tro leave for w ne east side of this s a fully stocked stat	ildlife ma stand if s nd is acc	ast, mark R/W pin still a problem, do ceptable, trench a	ne SL for diversity, no ormant season cut to p and plant RP if regener	retention other than mar romote vigorous sproutir ration fails	ked leave ng of the older
<u>Other</u> Comn	cut with nents:	north pa	art of stand 8 in 71048 t	to the east (north of	2T), wa	tch pipelines with	iin/adjacent to the star	ıd	
<u>Next</u> Steps	<u>.</u>								
40	71046040-Cut	41.0	42110 - Planted Red Pine	High Density Log	71	Harvest	Low Thinning	42111 - Planted Red Pine, Mixed Deciduous	Cmpt. Review Proposal
Presc Specs	ription thin to 12 .: well sites	20 SF by s which	y removing defect and are both within and adj	suppressed trees a acent to the stand,	long witl buffer w	n a few sawlog si ell sites as retent	ze trees which won't m ion	ake utility poles, watch o	il flowlines and
<u>Other</u> Comn	nents:								
<u>Next</u> Steps	manage	for utilit	y poles next YOE						
41	71046041-Cut	43.3	42110 - Planted Red Pine	High Density Log	71	Harvest	Low Thinning	42111 - Planted Red Pine, Mixed Deciduous	Cmpt. Review Proposal
Presc Specs	ription thin to 12 <u>::</u> and adja	20 SF b cent to	y removing defect and the stand, place retenti	suppressed trees a on around the well	long witl sites	n a few SL which	won't make utility pole	s, watch oil pipelines/we	Il sites within
<u>Other</u> Comn	nents:								
<u>Next</u> Steps	manage	for utilit	y poles next YOE						
50	71046050-Cut	7.4	4132 - Aspen, Jack Pine	High Density Pole	45	Harvest	Clearcut with Reserves	4131 - Aspen, Oak	Cmpt. Review Proposal
Presc Specs	ription_ cut all as <u>:</u> is accep	spen/rec table, tre	I maple/jack pine, leav ench and plant red pine	e oak/R-W pine for if regeneration fail	retentio s which	n/diversity/visual is unlikely	and for wildlife mast, a	any regeneration to a full	y stocked stand
<u>Other</u> Comn	nents:								
<u>Next</u> Steps	1								
55	71046055-Cut	17.0	42110 - Planted Red Pine	High Density Log	71	Harvest	Low Thinning	42111 - Planted Red Pine, Mixed Deciduous	Cmpt. Review Proposal
Presc Specs	ription thin to 12 .: where po	20 SF by ossible	y concentrating on imp	roving the quality of	f the sta	nd, no retention c	other than residual RP,	save areas heavy to oal	c understory
<u>Other</u> Comn	include s	stand to	the east in Compt 48 v	vhen treated					
<u>Next</u> Steps	manage	for utilit	y poles next YOE						

S t		Rosco	mmon Mgt. Unit	Table 3 wi	Tre th No l	eatments Pre Limiting Fac	escribed tor	Compartment: 046 Year of Entry 2013	DNR DNR
a n d	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
59	71046059-Cut	11.5	4132 - Aspen, Jack Pine	High Density Pole	e 86	Harvest	Clearcut with Reserves	4131 - Aspen, Oak	Cmpt. Review Proposal
Presc Spec:	<u>cription</u> final har <u>s:</u> stand sł aspen, l	vest for a nould reg eave ade	aspen mgt. leave all o enerate to aspen but equate buffer on cree	bak for retention/ma alternate regenerat k and any bog/wet a	st and all ion will b areas	R/W pine for ree to trench and	etention and visual, dorm plant jack pine in any lar	ant season cut to increa ge areas which do not re	ase sprouting, egenerate to
<u>Other</u> <u>Comr</u> <u>Next</u> <u>Steps</u>	<u>-</u> SMT wil <u>ments:</u> ensure t	l need to rail stays	be used for hauling of sopen to snowmobile	during the winter as s during hauling, re	its the or quire tha	nly route out to a t trucks go north	a county road so proper p n to Pine Drive as Marl La	protections specs should ake Road is part of the S	d be added to SMT system
60	71046060-Cut	34.6	42110 - Planted Red Pine	High Density Log	71	Harvest	Low Thinning	42111 - Planted Red Pine, Mixed Deciduous	Cmpt. Review Proposal
Presc Spec:	<u>cription</u> thin to 1 <u>s:</u>	20 SF co	oncentrating on impro	wing the quality of th	ne stand,	save as much o	oak understory as possib	le	
<u>Other</u> Comr	<u>-</u> ments:								
<u>Next</u> Steps	manage <u>s:</u>	for utility	y poles next YOE						
68	71046068-Cut	15.0	4311 - Pine, Aspen Mix	High Density Log	86	Harvest	Clearcut with Reserves	4131 - Aspen, Oak	Cmpt. Review Proposal
Presc Spec:	<u>cription</u> final har <u>s:</u> aspen ro be to tre	vest for a etention or ench and	aspen mgt., dormant due to age of the asp plant jack pine in any	season cut, leave a en, leave white bircl / larger areas which	ll oak for n along S don't reg	mast and retent MT for visual, s generate to aspe	tion, leave islands heavy tand should regenerate t en, leave adequate buffe	to pine for visual and re o aspen but alternate re the creek	etention, no egeneration will
<u>Other</u> Comr	<u>SMT</u> wil <u>ments:</u> during h	l need to auling, re	be used for hauling of equire trucks to go no	during the winter so orth to Pine Road as	proper p Marl Lal	rotectio specs s ke Road is part o	hould be added to ensur of the SMT system	e the trail stays open to	snowmobiles
<u>Next</u> Steps	<u>):</u>								
80	71046080-Cut	23.2	4132 - Aspen, Jack Pine	High Density Pole	e 86	Harvest	Clearcut with Reserves	4131 - Aspen, Oak	Cmpt. Review Proposal
Presc Spec:	<u>cription</u> final har <u>s:</u> R/W pin regener	vest for a le by spe ation will	aspen mgt., dormant c for diversity, visual, be to plant jack pine	season cut, retain a and retention, retai in large areas which	ll oak for n adequa n do not r	wildlife mast, re ate buffer on the regerate to aspe	etention, and diversity. re creek, stand should reg	etain islands of R/W pin enerate to aspen but alt	e and/or all ernate
<u>Other</u> Comr	<u>SMT wil</u> <u>ments:</u> stays op leaving	l need to ben to sn stumps	be used during the v owmobiles, proper pr	vinter as its the only otection specs are a	route int also need	o the stand so p led on the ORV	proper protection specs r trail, consider marking le	eed to be added to ens eave trees close to the t	ure the trails rail to avoid
<u>Next</u> Steps	<u>.</u>								
	Total Treatme	nt							

Acreage Proposed: 246.5

S t		Roscom	mon Mgt. Unit	Table 4	<ul> <li>Treatme a Limiti</li> </ul>	ents Prescrib ng Factor	Compartment: 046 Year of Entry 2013	DNR DNR	
a n d	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
			#Error						
<u>Preso</u> Spec	<u>cription</u> s:								
<u>Other</u> Comr	<u>r</u> ment:								
<u>Next</u> Steps	<u>s:</u>								
<u>Limiti</u> <u>Treat</u>	ing Factor and No ment Reason	<u>0</u>							
A	Total Treatmer creage Propose	nt d:	0						

Year of Entry: 2013

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

Treatme Name	nt	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
71048_Ou OE_1-C	tOfY ut	2.2				Harvest	Low Thinning	42111 - Planted Red Pine, Mixed Deciduous	Cmpt. Review Proposal
Prescription Specs:	thin to	o 120 SF b e possible	by concentrating on i	mproving the qu	ality of the	stand, no retent	ion other than residual	RP, save areas heavy t	o oak understory
<u>Other</u> Comments:	cut w	iht stand to	o the west in 71046						
<u>Next</u> <u>Steps:</u>	mana	age for utili	ty poles next YOE						
71048_Ou OE-Cu	tOfY It	4.0			0	Harvest	Clearcut with Reserves	4131 - Aspen, Oak	Cmpt. Review Proposal
Prescription Specs:	final	narvest for , address ( n in the sta	aspen mgmt., mark green-up concerns o and, any regeneratio	oak SL tro leav n the east side o n to a fully stock	e for wildlife of this stand ed stand is	e mast, mark R/ d if still a probler acceptable, tre	W pine SL for diversity, n, dormant season cut nch and plant RP if rege	no retention other than to promote vigorous spi eneration fails	marked leave outing of the older
<u>Other</u> Comments:	cut w	ith stand to	o the west in 71046						
<u>Next</u> Steps:									
71118_Ou OE-Cu	tOfY It	6.6			0	Harvest	Clearcut with Reserves	4131 - Aspen, Oak	Cmpt. Review Proposal
Prescription Specs:	final h areas reger this is	narvest for in the nor neration of s unlikely.	aspen mgmt. mark th part of the stand t aspen/oak/pine to a	or leave all oak or BMP reasons fully stocked sta	for diversi a. leave out and is acce	ty/retention/visu areas with heav ptable. regenera	als. buffer low marshy g /y R/W pine component ation alternative is to pla	round on southwest. le for diversity/retention/v nt red pine if stand is n	ave out any wetter isuals. Any ot fully stocked but
<u>Other</u> Comments:	treat	with stand	to the west in 71117	, add proper pro	otection spe	ecs to ensure tra	il staus open to snowm	obiles during hauling	
<u>Next</u> <u>Steps:</u>									
71165_Ou OE-Cu	tOfY it	5.1				Harvest	Low Thinning	42260 - Natural Pine, Mixed Deciduous	Cmpt. Review Proposal
Prescription	thin to	o 90-120 S	F/Acre so as to enh	ance old growth	/bio-diversi	ty characteristic	S		

Prescription thin Specs:

stand has a dense A/RM understory which will need to be addressed with appropriate sale specs, save W3 understory where possible, treat <u>Other</u> Comments: stand to the west in 71163when this stand is treated (same stand)

### <u>Next</u>

Steps:

**Total Treatment** 17.9 Acreage Proposed:

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S t	Roscommon Mgt. Unit			5 – For	rested Sta	nds Compartment: 046 Year of Entry: 2013
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	42210 - Natural Red Pine	High Density Log	12.8	Uneven Age	141-170	Stand appears to be natural RP stand - no planting record found and no discernable rows,scattered pockets heqavy to WP poles/logs, thinned 1993 by removing HW's and JP but very little HW regenerated except for a few openings and on the edges of the stand, all ages of RP exist in this stand from seedlings to X-logs), good candidate for SCA but needs a treatment to move it towards old growth, thin to 90 - 120 SF residual to enhace old growth characteristics of this stand
2	6117 - Lowland Deciduous, Mixed Coniferous	Low Density Sapling	5.7	17		cut 1993, upland parts regenerated well to TA/RM and lower parts which are wetter are balsam fir and tag alder
4	42290 - Natural Mixed Pine	Medium Density	12.5	Uneven Age		mix of older R/W pine with younger HW's and JP, stand is 2- aged going towards all-aged,HW's and JP were cut out in 1993, north end is mostly conifer logs, poles, and saps, south end is mostly conifer logs and poles and HW saps, south and west of 2T the stand is lower with a few wet runs and potholes, recommend holding stand until conifer/HW understory gets bigger, stand has good vertical structure for now for various wildlife and lots of wildlife sign is evident
5	6115 - Lowland Ash	High Density Pole	3.8	71		black ash stand in floodplain of S. Br. Au Sable River
8	6115 - Lowland Ash	High Density Pole	1.7	77		black ash stand in bottomland of S. Br. Au Sable River, tag alder and understory and marsh grass ground cover
9	6120 - Lowland Cedar	High Density Pole	72.5	101		wet cedar swamp with lots of blowdown, south end has more hardwoods, smaller trees, and is less dense
11	6115 - Lowland Ash	Medium Density Pole	7.7	88		low/wet/slow-growing stand created by ol 2T to oil well site (now abandoned), scattered areas with heavy conifer component (BF, WP,BS, Tam., NWC)
12	42200 - Natural White Pine	High Density Log	8.4	Uneven Age	81-110	WP sawlogs and x-logs with hardwood poles and balsam fir saps, retain as old growth SCA, no treatment, some WP X-logs are 30" + DBH
14	4191 - Mixed Upland Deciduous with Conifer	High Density Log	7.2	Uneven Age	171-200	Stand is mature RM and other hardwoods with X-log WP, balsam fir saplings in the understory, possibly burn to maintain OG characteristics and control BF
15	6129 - Mixed Coniferous Lowland Forest	High Density Pole	29.2	108		low, wet swamp, cedar with pockets of H9, hardwoods rapidly disappearing, deeryard?
16	6124 - Lowland Spruce- Fir	High Density Pole	9.2	90		mix of spruce and fir with some tamarack/hardwoods, hummucky low ground cut by a few lower drainages and potholes, hardwoods are poor quality and declining
17	4319 - Mixed Upland Forest	High Density Pole	23.9	40		stand was cut in 1970 by cutting all A/RM, high ground with decent A/M regeneration interspersed with lower ground with mult. stem RM and BF saps, hardwoods are just past pole size, hold 10 years and evaluate for treatment at theat time

S t	Roscommon Mgt. Unit			5 – Foi	rested Sta	nds Compartment: 046 Year of Entry: 2013
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
18	4133 - Aspen, Mixed Pine	High Density Pole	20.9	41		1970's YOO trembling aspen with scattered oak and pine of the same age and older, pocket of RP SL on south end could be saved for retention if cut
19	6120 - Lowland Cedar	High Density Pole	6.1	101		almost pure cedar with hardwoods dying out
20	429 - Mixed Upland Conifers	High Density Pole	21.5	25		Trembling Aspen with Balsam Fir component
22	6129 - Mixed Coniferous Lowland Forest	High Density Pole	37.0	90		bottomland adjacent to south creek, scattered areas of "L" type where beavers have been active
23	42200 - Natural White Pine	Medium Density Log	2.9	Uneven Age	111-140	2 aged going towards all aged, cut hardwoods and left pine in 1993, mix of W/R pine SL with TA & RM u.s. and oak seedlings starting under the A/M saps
24	4130 - Aspen	High Density Sapling	18.5	16		cut in 1993, good aspen regen on upland, not so good on the lower areas, parts are wet with just tag alder or marsh grass
26	42290 - Natural Mixed Pine	High Density Log	1.4	71	200+	natural RP stand, 2 aged stand with hardwoods removed in approx 1960, thin to 140 sqare feet to enhance old growth characteristics of stand, no retention due to stand size
27	42260 - Natural Pine, Mixed Deciduous	Medium Density Log	22.3	Uneven Age	81-110	most pine is 1940 YOO with the hardwoods 1970 YOO, pine is growing well but not great quality and hardwoods are just past pole-size, scattered areas are heavy to 1970 YOO oak and pine, south end just north of oil well site is heavy to RP SL
28	4319 - Mixed Upland Forest	High Density Pole	10.5	81		aspen with heavy conifer component, transition zone between South Creek bottomlands and uplands, stand is hummucky ground but should be operable with cautions, clearcut for aspen regeneration, cut in dry or frozen ground during dormant season and leave adequate buffer on South Creek floodplain
31	4134 - Aspen, Spruce/Fir	High Density Sapling	17.5	25		Stand slopes down to the north and hardwood densities decrease as you move downslope towards the swamp to the north, Trembling Aspen just reaching pole-size
32	4130 - Aspen	Medium Density Pole	7.6	70		2 aged stand with TA at south end younger than north end (1970 YOO), oldest aspen is declining and should be cut now, no retention due to age of aspen, mark a few oaks for wildlife mast
35	4319 - Mixed Upland Forest	High Density Sapling	28.9	15		Trembling Aspen stand with heavy conifer component
37	42110 - Planted Red Pine	High Density Log	13.3	71	111-140	RP SL stand with heavy understory of oak, stand was thinned in 1993 by removing hardwoods and jack pine, parts need thinning and other parts are OK as is, final harvest and manage for oak but plant RP where oak is sparse, leave part north of two-track and buffer well site for retention, green-up concern on east side will need to be addressed

S t	Roscommon Mgt. Unit			5 – Foi	rested Sta	nds Compartment: 046 Year of Entry: 2013
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
38	4131 - Aspen, Oak	High Density Pole	7.9	45		poor quality oak SL and RM/TA poles, scattered pine SL, aspen appears to be 2-aged with the youngest aspen circa 1965 YOO, oldest aspen appears to be same aged as oak/pine SL. spme hypox. canker started, should be cut now B4 apsen declines further
40	42110 - Planted Red Pine	High Density Log	41.0	71	171-200	RP SL with hardwood understory, some RM approaching pole size, thinned by removing hardwoods and jack pine in 1993
41	42110 - Planted Red Pine	High Density Log	43.3	71	171-200	planted RP with scattered oak SL and misc. conifers coming in along South Creek, thinned in 1993 by removing HW's and JP
43	4133 - Aspen, Mixed Pine	High Density Pole	22.6	25		lower areas are RM/WP/BF with misc. swqamp conifers, drier areas are TA/BO/BF, most species are just getting to pole-size
46	6130 - Fir, Aspen, Maple	High Density Pole	21.2	Uneven Age		floodplain/bottomland of South Creek
47	4134 - Aspen, Spruce/Fir	High Density Pole	19.0	45		TA poles mixed with conier poles, also scattered R/W pine x- logs, consider cutting next YOE as aspen is doing well or cut now for better aspen distribution in the compt./unit
48	6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	10.9	Uneven Age		bottomland of creek, 2 aged with cedar poles and white pine SL and XL being the oldest and hardwoods and spruce-fir younger, lots of dead/down hardwoods, somewhat operable on the edges but much wetter near the creek, heavy balsam fir understory thru-out most of stand except for the south end which has less u.s., possible designate as SCA for riparian corridor reasons
49	4199 - Other Mixed Upland Deciduous	Medium Density	17.3	6		cut 2004 resulting in variable regeneration - good aspen and oak regeneration in spots but the rest of the stand is fairly open
50	4132 - Aspen, Jack Pine	High Density Pole	7.4	45		Stand ranges from areas of mature/over-mature trembling aspen SL (north part) to areas of mature JP and oak with immature TA poles in the understory (along Pine Dr.), scattered super canopy RP trees also, some hypox. canker present
53	4132 - Aspen, Jack Pine	High Density Pole	31.5	45		TA with a few areas havy to JP and scattered R/W pine and oak, aspen is both solitary and clonal, solitary aspen declining somewhat but clonal aspen doing well, several areas are more open wiht upland brush and alomost pole size aspen, scattered wetter pockets with aspen/black spruce/tag alder - especially on the west edge, most aspen can hold or is not ready to harvest, recommend holding 10 years and cutting with stand to the west in Compartment 45 which is of similar age and species makeup.
54	4132 - Aspen, Jack Pine	High Density Pole	28.4	45		Aspen stand with BTA barely pole-size in most spots, other spots heavy to pole-size white pine and JP, stand also has some x-log WP, begin separating out areas of WP/JP and aspen next YOE
55	42110 - Planted Red Pine	High Density Log	17.0	71	141-170	planted RP thinned in 1994 by removing JP and Oak, NE part has smaller trees and less dense BA, Oak u.s. thru-out ranges from O1 to O3 in several spots

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S t	Roscommor	n Mgt. Unit		5 – Fo	prested Sta	nds Compartment: 046 Year of Entry: 2013
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
56	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	25.6	45		DRIP cut in 1965?? - site is not really an aspen site, possibly grow oak/RP on more upland areas of the stand in future YOE, scattered super-canopy R/W pine
57	42121 - Planted Jack Pine, Mixed Deciduous	High Density Sapling	7.8	14		cut 1994, planted/seeded to JP in 1996
58	4191 - Mixed Upland Deciduous with Conifer	Medium Density	21.6	4		stand is mix of everything - mostly aspen/oak on north end and oak/jp on south end, possibly speilt stand next YOE when easier to define
59	4132 - Aspen, Jack Pine	High Density Pole	11.5	86		trembling aspen stand with several areas heavy to jack pine, aspen appears to be 2 aged in spots with larger mature SL mixed with smaller pole/sap size aspen, scattered RP X-logs and WP saps, scattered oak SL's with several areas heavy to oak pole, logs, and saps, jack pine and aspen both need to be cut, recommend dormant season cut and minimal retention of aspen, leave all oak for retention and mast, leave R/W pine for visual and retention, stand should regnerate to aspen but alternate regeneration would be to plant JP in any large areas that do not regenerate to aspen
60	42110 - Planted Red Pine	High Density Log	34.6	71	171-200	removed HW's and JP in 1994, scattered areas in u.s are O3 and others are fairly open, some RP seeding in on main N-S skid road, RP SI is 70
63	429 - Mixed Upland Conifers	High Density Sapling	18.0	15		appears to be nat. regeneration as no trenches or FTP were found
65	4310 - Pine, Oak Mix	Low Density Pole	3.5	71	1-50	transition between jack pine to the east and RP to the west, removed jack pine/HW's in 1994 so stand is now 2-aged
66	4191 - Mixed Upland Deciduous with Conifer	High Density Sapling	2.3	17		cut to 4" and not seeded, fairly equal mix of oak and red maple with J/R pines seeding in naturally
67	6122 - Black Spruce	Medium Density Pole	2.0	86		wet pocket of black spruce and lowland hardwoods with tag alder
68	4311 - Pine, Aspen Mix	High Density Log	15.0	86		poles size trembling aspen clones interspersed with areas of jack pine poles and logs and oak saps, scattered areas with TA saps and heavy oak saps,JP is mature and TA is merchantable in most spots, aspen is 2 aged with the oldest aspen circa 1924, recommend dormant season cut and minimal retention of aspen due to age, leave all oak for mast and retention and leave islands heavy to RP for visual and retention, possibly leave white birch esp. in areas visible from the SMT, plant jack pine in any larger areas that do not regenerate to aspen
69	4132 - Aspen, Jack Pine	High Density Pole	50.2	48		J/A poles with scattered oak SL, lots of pin cherry and oak saps in many spots, JP poles bettere quality than aspen poles (not really and apsn site), both aspen and jack pine could use more growing before harvesting, recommend holding 10 years and then managing for oak/jack pine mix - JP SI is 57

S t	Roscommor	Roscommon Mgt. Unit			rested Sta	nds Compartment: 046 Year of Entry: 2013
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
70	42220 - Natural Jack Pine	High Density Sapling	19.3	15		appears to be natural jack pine stand as no planting records were found
71	6117 - Lowland Deciduous, Mixed Coniferous	High Density Pole	11.3	45		bulk of stand is broad drainge area which is seasonally wet, several spots are wet most of the year and have "L" in the understory, there is at least one higher island with oak and jack pine, R/W pine X-logs scattered thru-out stand as supercanopy trees
72	42121 - Planted Jack Pine, Mixed Deciduous	High Density Sapling	8.7	14		cut 1994 and seede to JP in 1996, doghair JP
73	42260 - Natural Pine, Mixed Deciduous	High Density Pole	21.4	45	111-140	2 aged stand with oak SL and white pine saps/poles, north end is heavier to aspen and jack pine saps/poles, WP component increases as you move south, spots are also heavy to aspen saps/poles
74	429 - Mixed Upland Conifers	High Density Sapling	13.4	15		appears to be trenched and possibly planted or seeded but no FTP found, parts of the stand are fairly sparse and others are dog hair pine
75	6129 - Mixed Coniferous Lowland Forest	Medium Density Pole	2.0	86		stand is in a wet drainage/pothole, wettest parts are conifers, somewhat drier parts are more hardwoods, ground cover is leatherleaf or swamp grass, very hummocky
79	4191 - Mixed Upland Deciduous with Conifer	Medium Density	24.3	25		more upland areas are TA/oak?JP and lower/wetter areas are black spruce/tamarack mixed with "L", south edges are the wettest, north end seems older or possibly more productive as it appears to be pulp size already
80	4132 - Aspen, Jack Pine	High Density Pole	23.2	86		mix of TA/JP/Oak/RM with scattered R/W pine, appears to be a 2 aged stand with overmature aspen(1924 YOO) and immature/mature aspen which is younger (1962 YOO), most oak is 1924 YOO and jack pine is 2 aged (1924/1962), recommend final harvest and plant jack pine where aspen does not regenerate, several pockets are heavy to red/white pine
81	4199 - Other Mixed Upland Deciduous	High Density Pole	22.9	Uneven Age		looks like aspen and possibly RM was spedc. cut in 1965, stand is now heavy oak and TA poles with scattered oak logs and X- logs overtop and heavy oak seedling/sapling underneath, stand also has a scattered pine component, there are several pockets (mostly along the road and north edge) which are heavy to jack pine poles, entire stand appears to be a better oak site than an aspen site as aspen is poor quality TA and oak is decent quality single stem pin oak, recomment holding 10 years and then managing for oak with some sort of thinning
83	4191 - Mixed Upland Deciduous with Conifer	Medium Density Pole	18.1	90	81-110	2 aged stand of log size oak and R/W pine and pole-size JP and aspen, O/J areas are interspersed with aspen/oak clones, scattered areas are heavy to WP or RP with the south end of the stand having a 1 -2 acre inclusion of natrual RP which could be thinned if the rest of the stand is treated this YOE, stand is not an aspen site but would make a good spot to grow oak or R/J pine, recommend holding the entire stand for next YOE until understory has become more merchantable

S t a n d	Roscommon Mgt. Unit			5 – Fo	prested Sta	ands Compartment: 046 Year of Entry: 2013	
	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:	
85	42220 - Natural Jack Pine	High Density Sapling	23.7	25		appears to be natural jack pine stand as no cplanting records were found	
87	42260 - Natural Pine, Mixed Deciduous	High Density Log	9.8	45	81-110	2 aged stand of mature J/O SL and R/W pine poles, understory R/W pine is almost poles size, recommend thinning entire stand next YOE when u.s. is merchantable	
88	4125 - Black, N. Pin Oak	Low Density Sapling	5.7	6		cut 2004 and planted to RP in 2006, will probably be oak stand mixed with planted RP and natural JP, lots of stump sprout oak as well as some oak from seed	
90	4131 - Aspen, Oak	High Density Sapling	2.9	6		nice A3 cut in 2004	

Roscommon Mgt. Unit

#### 6 – Nonforested Stands

Compartment: 046



Year of Entry: 2013

Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:	THIGH.
3	310 - Herbaceous Openland	1.5	N\A	Unspecified		
6	310 - Herbaceous Openland	1.9	N\A	Unspecified		
7	622 - Lowland Shrub	7.6	N\A	Unspecified		
10	622 - Lowland Shrub	9.5	N\A	Unspecified		
13	310 - Herbaceous Openland	1.1	N\A	Unspecified		
21	310 - Herbaceous Openland	1.4	N\A	Unspecified		
25	310 - Herbaceous Openland	1.1	N\A	Unspecified		
29	310 - Herbaceous Openland	1.7	N\A	Unspecified		
30	622 - Lowland Shrub	10.5	N\A	Unspecified		
33	622 - Lowland Shrub	1.4	N\A	Unspecified		
34	310 - Herbaceous Openland	1.6	N\A	Unspecified		
36	310 - Herbaceous Openland	1.9	N\A	Unspecified		
39	622 - Lowland Shrub	7.8	N\A	Unspecified		
42	310 - Herbaceous Openland	2.5	N\A	Unspecified		
44	622 - Lowland Shrub	1.7	N\A	Unspecified		
45	320 - Upland Shrub	21.0	N\A	Unspecified		
51	310 - Herbaceous Openland	2.1	N\A	Unspecified		
52	622 - Lowland Shrub	5.2	N\A	Unspecified		

Roscommon Mgt. Unit

### 6 – Nonforested Stands

Compartment: 046 Year of Entry: 2013



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
61	622 - Lowland Shrub	6.6	N\A	Unspecified	
62	3102 - Grass	17.2	Natural Reger	n Aspen	cut while inventorying this compartment - should be A3 after 1 growing season
64	622 - Lowland Shrub	2.6	N\A	Unspecified	
76	622 - Lowland Shrub	26.9	N\A	Unspecified	
77	623 - Emergent Wetland	22.1	N\A	Unspecified	
78	3102 - Grass	30.4	Natural Reger	n Aspen	cut while inventorying this compartment- should be A3 after 1 growing season - middle 1/3rd was heavy to J6 and may need to be planted back to jack pine
82	622 - Lowland Shrub	3.5	N\A	Unspecified	
84	310 - Herbaceous Openland	6.1	N\A	Unspecified	
86	310 - Herbaceous Openland	3.4	N\A	Unspecified	
89	310 - Herbaceous Openland	9.5	N\A	Unspecified	



## 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
12	Unique Site - SCA	71046012	8.4	rare on the Roscommon FMU, this stand is a good exambple of a dry- mesic northern forest
14	Unique Site - SCA	71046014	7.2	rare on the Roscommon FMU, this stand is a good example of a mesic northern forest
23	Unique Site - SCA	71046023	2.9	Type 2 old growth - 2 aged going towards all aged
48	Unique Site - SCA	71046048	10.9	designate as SCA due to age and for riparian corridor aspects



### 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 cond stocked trout populations and those of other coldwater fish speci year to year. Coldwater streams in Michigan typically provide the contributions of groundwater to their stream flows. Such streams designated as trout resources by Fisheries Order 210.	stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or t populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from Coldwater streams in Michigan typically provide these conditions due to substantial of groundwater to their stream flows. Such streams are established by Director's action and as trout resources by Fisheries Order 210.		
HCVA Designated Critical Habitat areas are established via a consultative and U.S. Fish and Wildlife service for the recovery of threatene 365, Endangered Species Protection, of the Natural Resou PA 451, and the Federal Endangered Species Act of 1973 species plans in various stages of review. As of now only t Plover Habitat.		erative process between the DNR and the endangered species, as governed by Part and Environmental Protection Act, 1994 is an active program, with proposed sist, Kirtland Warbler Habitat and Piping			
HCVA	Natural Rivers	There are two Natural Rivers datasets which are derived from sp approved distance from the river centerlines. The Natural Rivers most Natural Rivers. The Vegetative Buffer ranges from 25 to 10 and Vegetative Buffers for each Natural River see the table locat folder.	atial buffers set from an established and 2 Zoning District is a 400 foot buffer for 00 feet. To view specific Zoning Districts ed on the I:\Documentation\GDSE data		