

Roscommon Forest Management Unit<br/>Compartment Review PresentationCompartment #29Entry Year: 2014Compartment Acreage: 1074County: Roscommon

**Revision Date:** 1/17/2012

Stand Examiner: Dale Ekdom

Legal Description: T24N R04W Section 26 & 35

Identified Planning Goals: Upper Muskegon Eco-Regional Management Area

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

**Soil and Topography:** Terrain is mostly flat throughout the compartment and gently rolling in the north  $\frac{1}{2}$  of Section 26. Soils are Grayling, Rubicon, and Roselawn sands on the upland areas and Rifle peat in the swamps.

**Ownership Patterns, Development, and Land Use in and Around the Compartment:** Compartment is a solid block of state land with a few private in-holdings. Adjacent land is approximately half private and half state land. Private land in and adjacent to the compartment is primarily year-round residential homes on forested acreages and a few small sub-divisions with year-round homes and seasonal cabins.

**Unique, Natural Features:** Secretive locust identified in the compartment in 2002. No other species detected during fieldwork.

Archeological, Historical, and Cultural Features: Prehistoric camp recorded within the compartment. No other sites found during field work.

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

Watershed and Fisheries Considerations: None noted.

**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 icecontact and glacial outwash sand and gravel and postglacial alluvium. The glacial drift thickness varies between 200 and 600 feet. Beneath the glacial drift is the Mississippian Michigan Formation. The Michigan 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 located just to north and potential should be good in Section 26. East Norwich Field is located four miles to the northwest. The field has produced over 15.9 million BO and 15.7 Bcf gas primarily from the Devonian Richfield Formation. It is in secondary recovery operations currently. All of the State land is currently leased. **Vehicle Access:** County Road 104 bisects the compartment east to west and Loxley Road and Birch Road are on the exterior of the compartment. There are also numerous forest two-tracks which provide good access to the interior of the compartment except for the south ½ of Section 35.

Survey Needs: No survey work currently needed.

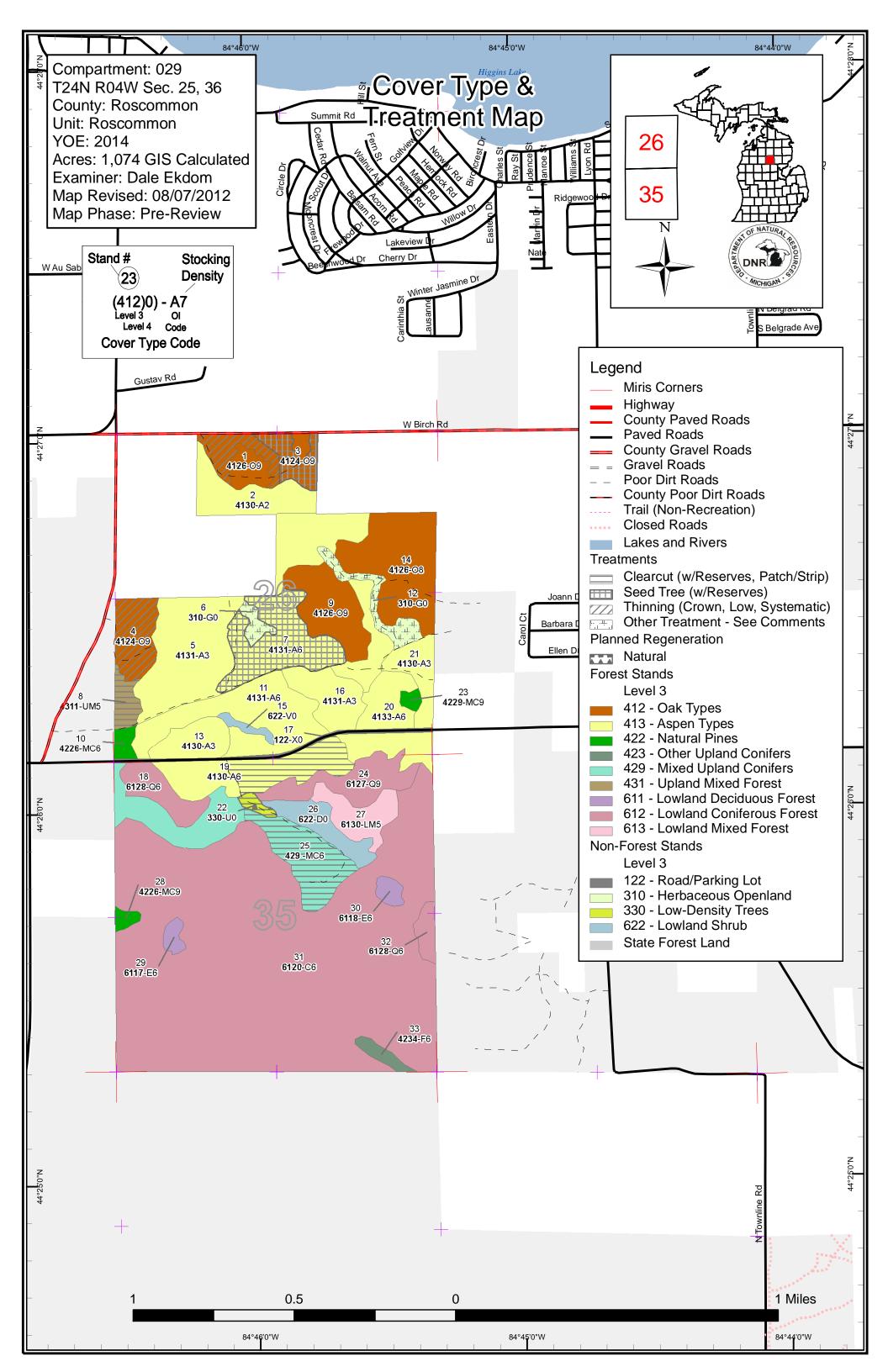
**Recreational Facilities and Opportunities:** No organized recreational facilities are within the compartment but compartment is heavily used for dispersed recreation such as hunting.

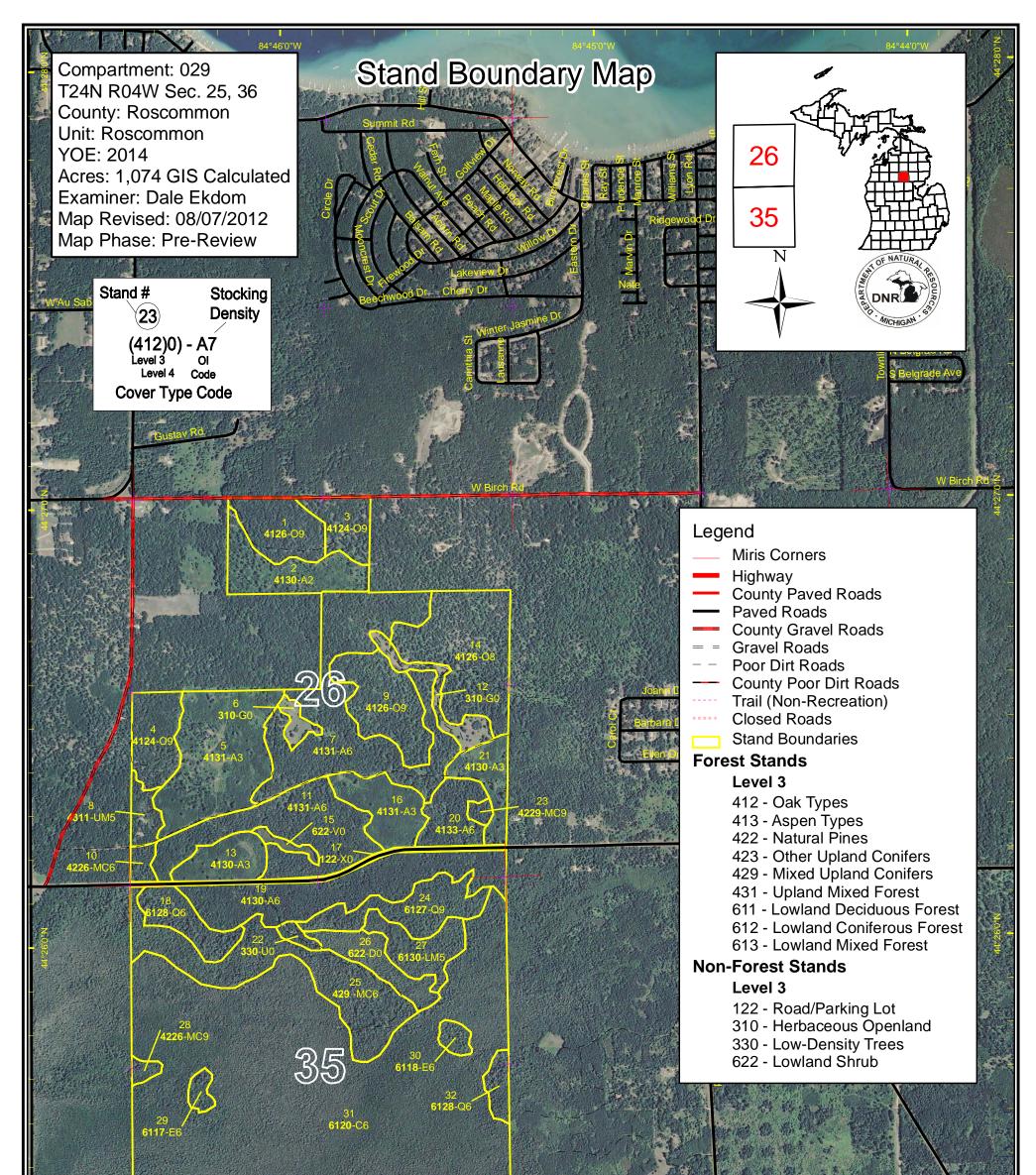
**Fire Protection:** Compartment has no recent history of any fires, low incidence of wildland-urban interface despite the few private in-holdings, no large concentrations of high hazard fuel types, and has numerous natural and man-made barriers to fire spread

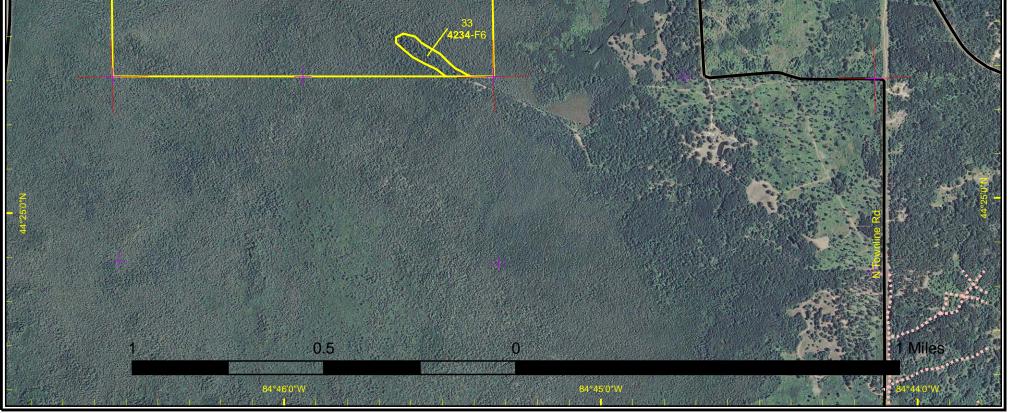
Additional Compartment Information: Proposed treatments for this YOE include 111 acres of regeneration cuts in oak, aspen, and jack pine, 31 acres of thinning treatments in oak and 16 acres of opening maintenance.

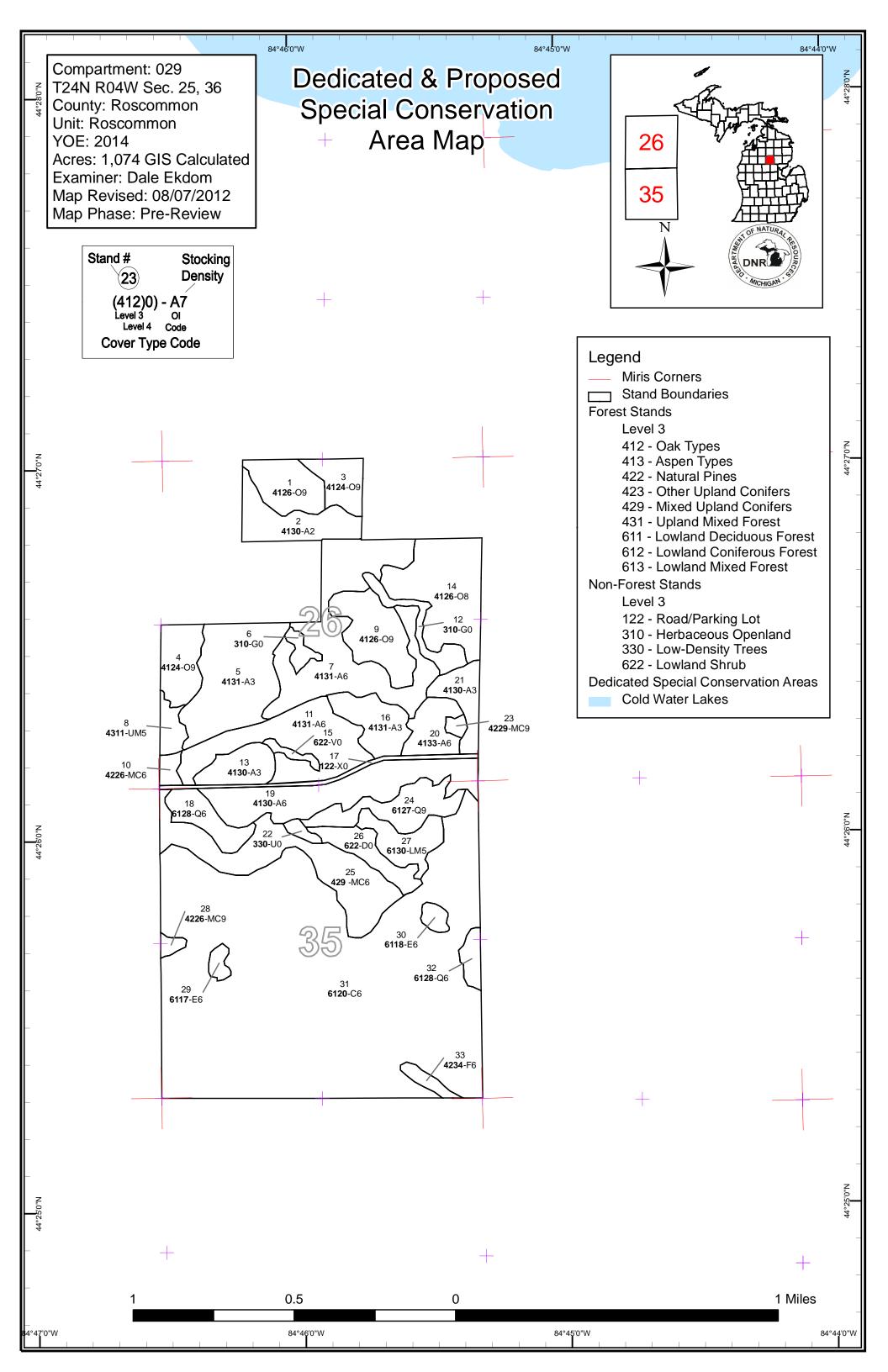
# > The following reports from the Inventory are attached:

- 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 029 Year of Entry 2014



Age	Class
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	/	6.0	0 <sup>.0</sup>	61. 10.1	61 61	DA DA	in the second se	00.00		8 <sup>38</sup> 8	9 <sup>99</sup>	001.001 	611.0L	100 Jue		, <sup>00</sup>
Aspen	129	0	0	0	117	0	0	0	0	0	0	0	0	77	323	i –
Bog	3	0	0	0	0	0	0	0	0	0	0	0	0	0	3	i –
Cedar	0	0	0	0	0	0	0	0	0	0	429	0	0	0	429	i –
Herbaceous Openland	16	0	0	0	0	0	0	0	0	0	0	0	0	0	16	i
Low-Density Trees	3	0	0	0	0	0	0	0	0	0	0	0	0	0	3	i -
Lowland Conifers	0	0	0	0	0	0	0	0	0	6	0	0	0	40	46	i i
Lowland Deciduous	0	0	0	0	0	0	0	0	4	4	0	0	0	0	7	i
Lowland Mixed Forest	0	0	0	0	0	0	0	0	17	0	0	0	0	0	17	i
Natural Mixed Pines	0	0	0	0	4	0	0	0	0	0	2	0	0	2	9	i
Oak	0	0	0	0	0	0	0	0	21	68	0	0	0	43	132	i i
Treed Bog	15	0	0	0	0	0	0	0	0	0	0	0	0	0	15	i i
Upland Conifers	0	0	0	0	0	0	0	0	55	0	0	0	0	0	55	i i
Upland Mixed Forest	0	0	0	0	7	0	0	0	0	0	0	0	0	0	7	i
Upland Spruce/Fir	0	0	0	0	0	0	0	0	0	5	0	0	0	0	5	i i
Urban	7	0	0	0	0	0	0	0	0	0	0	0	0	0	7	ĺ
Total	173	0	0	0	128	0	0	0	97	82	431	0	0	163	1074	Ī



ATCHIGAN .	Roscommon Mgt. Unit Year of Entry 2014							Compartment Total Compartment Acres:	
			A	cres by T	reatment	уре			
	Commercial Harvest - 143	Site Prep - 0		Tree P	anting - 0		Prescribed Burn -	0 Other - 0	
	Habitat Cut - 0	Opening Mainten	ance - 16	Tree S	eeding - 0		Pesticide - 0		
			C	over Ty	be by Harv	est Met	hod		
			Contraction of the second		/ % /		to t		
	Aspen		22 0	39	0 0	0	61		
	Low-Der	nsity Trees	3 0	0	0 0	0	3		
	Oak		0 0	11	0 31	0	43		
	Upland	Upland Conifers 29 0 0 0 0 29							
	Upland	Mixed Forest	7 0	0	0 0	0	7		
		Total	61 0	50	0 31	0	143		

S t			Roscommon Mgt. Unit Table 3 Treatments Prescribed with No Limiting Factor						bed	Compartment: 029 Year of Entry 2014	DR NATURAL PLAND
a n d		ment me	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
1	71029	001-Cut	12.3	4126 - White, Black, N. Pin Oak	High Density Log	82 g	111-140	Harvest	Crown Thinning	4122 - Oak, Pine	Cmpt. Review Proposal
Preso Spec	· · · · ·	thin to 70	0-90 SF/Ac	cre by cutting all asper	n and markir	ng oak, ∣	pine, and r	ed maple to cut			
<u>Other</u> Comr	<u>r</u> ments:	leave ou	t areas to I	R/W pine saps/poles (	south-centra	al)					
<u>Next</u> Steps		thin heav	vy pine are	as when pine is more	merchantab	ole					
<u>Propo</u> Start [		10/01/20 <sup>-</sup>	13								
3	71029	003-Cut	11.3	4124 - Red with White Oak	High Density Loo	94	81-110	Harvest	Seed Tree with Reserves	4122 - Oak, Pine	Cmpt. Review Proposal
Preso Spec		seed tre	e by markiı	ng 20-40 SF of good o	ak seed tree	es to lea	ave (esp. V	VO)			·
<u>Other</u> Comr	<u>r</u> ments:	shortwoo	od skidding	only to limit damage	to advance	oak rege	eneration, l	leave out areas h	neavy to WP saps/p	oles	
<u>Next</u> Steps		any com	bination of	oak/pine to a fully sto	cked stand	is accep	otable, plar	nt RP if stand is n	ot fully stocked		
Propo Start [		10/01/20 <sup>-</sup>	13								
4	71029	004-Cut	19.0	4124 - Red with White Oak	High Density Log	94	111-140	Harvest	Crown Thinning	4124 - Red with White Oak	Cmpt. Review Proposal
Preso Spec				al of 90 SF by cutting nopy holes to encoura						oorly formed and suppre	essed oaks first
<u>Other</u>				on the north end, lool	-	-		-	-		
<u>Next</u> Steps											
Propo Start [	000	10/01/20 <sup>-</sup>	13								
7	71029	007-Cut	38.8	4131 - Aspen, Oak	High Density Pole	96	81-110	Harvest	Seed Tree with Reserves	4131 - Aspen, Oak	Cmpt. Review Proposal
Preso Spec				overall of well crowned all oak <5" dbh for visu		s seed t	trees, oak t	to be marked in c	clumps where oak is	s heavy so oak in clump	os will be higher
<u>Other</u> Comr				to locate center of Se tand and north part of				opening and leav	ve part of stand wes	st of north-south trail as	retention,
<u>Next</u> Steps		any com	bination of	aspen/HW's to a fully	stocked sta	and is ad	cceptable,	alt. regeneration	will be to plant RP i	f stand is not fully stoc	ked
<u>Propo</u> <u>Start [</u>		10/01/20 <sup>-</sup>	13								
8	71029	008-Cut	7.3	4311 - Pine, Aspen Mix	Medium Density Pole	46		Harvest	Clearcut with Reserves	4133 - Aspen, Mixed Pine	Cmpt. Review Proposal
Preso Spec		final har wildlife n		anage for aspen, leav	e out areas	heavy to	o WP (sout	th end) and buffe	r swamp for residua	al, mark a few well crov	vned oaks for
<u>Other</u> Comr	<u>r</u> ments:	may nee	d a survey	to find north (private)	- looked for	west 1/	4 corner th	is YOE but did n	ot find - remonume	nted in last 10 years	
<u>Next</u> Steps		any com	bination of	HW's/pine to a fully s	tocked stan	d is acc	eptable, pla	ant jack pine if no	ot fully stocked		
<u>Propo</u> <u>Start [</u>		10/01/20 <sup>-</sup>	13								

d 19 7		<b>Acres</b> 22.4	CoverType	Sine						and the
Prescrip Specs: Other	<u>otion</u> final harv	22.4		Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
<u>Specs:</u> <u>Other</u>			4130 - Aspen	High Density Pole	46		Harvest	Clearcut with Reserves	4130 - Aspen	Cmpt. Review Proposal
			anage for aspen, buffe for wildlife mast and le					areas heavy to co	nifers for retention/visu	ial, mark a few
		le part of t	his stand east of 2T, in	clude "rabb	oitat" spe	с				
<u>Next</u> Steps: Proposed	<u>d</u>		hardwoods/aspen to a	I fully stock	ed stand	is accepta	able, plant RP if s	tand is not fully sto	ocked	
tart Dat	t <u>e:</u> 10/01/201	13								
25 7 <sup>.</sup>	1029025-Cut	28.8	429 - Mixed Upland Conifers	High Density Pole	86		Harvest	Clearcut with Reserves	42121 - Planted Jack Pine, Mixed Deciduous	Cmpt. Review Proposal
Prescrip Specs:	<u>otion</u> final har	vest and pl	ant/seed jack pine, ma	rk a few R/	W pine a	ind oaks fo	or diversity/wildlife	emast		
<u>Other</u> Comme			leave wettest areas ou compt review	t of the sale	e, possib	ly close ro	ad south of the la	nding area along t	he treed bog, approve	potential
<u>Next</u> Steps:		•	eed jack pine							
roposed		13								
22 N	F_71029022- Cut	2.7	3301 - Low Density Deciduous Trees				Harvest	Clearcut	4130 - Aspen	Cmpt. Review Proposal
Prescrip Specs:		any trees ir	this sparsely forested	stand in w	ith sale ir	n stands to	o north and south	of this stand, no re	etention due to stand s	•
Other_		d will be th	e landing area for thes	e two stand	ds					
<u>Comme</u> <u>Next</u> Steps:		bination/a	mount of regeneration i	n this stand	d is acce	ptable but	plant RP if stand	to the north needs	to be planted	
roposed		13								
6 N	F_71029006- NonFor	4.5	3102 - Grass				Non-Forest Management	Other - Specify	31021 - Cool Season Grass	Cmpt. Review Proposal
Prescrip Specs:		maintenar	nce as specified by WD	I						
<u>Other</u> Comme	nts:									
<u>Next</u> Steps:										
roposed		ed								
12 N	F_71029012- NonFor	11.1	3102 - Grass				Non-Forest Management	Other - Specify	31021 - Cool Season Grass	Cmpt. Review Proposal
Prescrip Specs:	<u>otion</u> opening	maintenar	nce as specified by WD	I						
<u>Other</u> Comme	nts:									
<u>Next</u> Steps:										
roposed		ed								

S t		Roscomm	on Mgt. Unit	Tab			ents Prescrib ting Factor	ed	Compartment: 029 Year of Entry 2014	DRR DRR HAND
a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status

Total Treatment Acreage Proposed: 158.3

S t		Roscommon	Mgt. Unit	Table 4		atments imiting	s Prescribed Factor	Compartment: 029 Year of Entry 2014	DRR NATURAL PHOLER	
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> <u>Steps</u>	<u>:</u>									
<u>Propos</u> Start D										
	ng Factor and N ment Reason	0								
Ac	Total Treatme creage Propose	-								

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

	atment lame	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
Prescription	L									
<u>Specs:</u> Other Comments:										
<u>Next</u> <u>Steps:</u>										
<u>Proposed</u> <u>Start Date:</u>	#Error									

Total Treatment Acreage Proposed:

0

S t	Roscommor	n Mgt. Unit		5 – For	ested Sta	nds Compartment: 029 Year of Entry: 2014
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	4126 - White, Black, N. Pin Oak	High Density Log	20.6	82	111-140	nice oak/pine stand with inclusions of solitary aspen and small aspen clones, oldest oak is 1929 YOO but cut records show cuts in 1944 and 1967 also, WP and some RP started coming in after the last cut and it is very heavy in spots (especially in the south- central part of the stand), stand has a south aspect so frost drainage is good, consider thinning or select cut this YOE in parts of the stand where WP is less dense, any cut now in areas heavy to R/W pine would damage too much residual
2	4130 - Aspen	Medium Density	25.3	5		cut 2006 for aspen management, left scattered WO SL and a few RO SL for diversity/visual especially in NW corner, most is now A3 andcan be considered fully stocked
3	4124 - Red with White Oak	High Density Log	14.0	Uneven Age	81-110	most parts were thinned(?) in fall 2005 by cutting out A/RM and a few oaks, north-central part has heavy W3 understory which is almost pole-size in spots, WO/RO saplings started in most spots and could be released, leave areas heavy to Pine out of any sale and mark a few well crowned oaks to leave in areas where oak regeneration is sparse for seed/mast and leave all R/W pine for diversity/visual/retention
4	4124 - Red with White Oak	High Density Log	19.0	94	111-140	mix of R/W/pin oak and scattered BTA trees/clones, also some scattered R/W pine SL's/XL's, very little RM so stand should regenerate well to oak if holes can be made in the canopy, some oak started already with scattered R/W pin saplings also, oak overstory is old and doing OK but there is some mortality which is being picked off by firewood cutters
5	4131 - Aspen, Oak	High Density Sapling	54.0	7		cut fall 2004, nice A3 regeneration with some scattered oak SL, middle of stand has a few sparser areas
7	4131 - Aspen, Oak	High Density Pole	77.2	Uneven Age	81-110	oak SL over aspen poles, O/A both starting to decline and both are poor quality, some oak regeneration is started in the u.s., portions of this stand were salvaged in 1997 after mortality caused by gypsy moth defoliation, parts of this stand are heavy to oak and other parts are A6, north 1/2 of the stand sweems to be doing better (more/better quality oak with a RM u.s.) and could be left until next YOE, recommend a seed tree with reserves on the south 1/2 of this stand, mark some of the better oak to leave for wildlife mast/seed trees to regenerate the stand to aspen and oak
8	4311 - Pine, Aspen Mix	Medium Density Pole	7.3	46		cut and regenerated in 190's with most of the aspen stands in this compartment, stand is either A6 or is fairly open with oak/JP poles, north east part of stand is wetter around bog, recommend regenerating this stand via final harvest and treat with oak stand to the north
9	4126 - White, Black, N. Pin Oak	High Density Log	29.2	Uneven Age	81-110	decent quality R/W/pin oak SL with aspen poles and RM/BO seedlings/saplings in u.s., oak is growing well with just a small amount of mortality, aspen is both solitary and in small clones and consists of BTA on the north end and TA on ths south end of the stand, stand should hold OK until next YOE
10	42260 - Natural Pine, Mixed Deciduous	High Density Pole	3.9	46	51-80	cut and regenerated in 1960's when rest of aspen stands in the compartment were treated, regenerated to WP and mixed hardwoods with hardwoods heavy to TA, WP and TA just becoming merchantable, possibly thin in some future YOE, maintain as buffer this YOE for cuts to the north

S t	Roscommor	n Mgt. Unit		5 – For	rested Sta	Ands Compartment: 029 Year of Entry: 2014
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
11	4131 - Aspen, Oak	High Density Pole	49.1	46		A6 stand regenerated in the 1960's, lots of RM in the u.s in spots, where asepn in sparser there is lots of oak in the u.s., leave as buffer this YOE for cuts to the north
13	4130 - Aspen	High Density Sapling	15.2	7		cut fall 2004, now nice A3 with scattered oak SL's
14	4126 - White, Black, N. Pin Oak	Medium Density Log	49.2	96	51-80	oak poles/SL's with scattered areas heavy to either O3 or A3, scattered oak seedlings and saplings thru-oiut stand, stand was salvage cut in 1997 after mortality from gypsy moth defoliation (dead oaki and some aspen were removed), hold as nurse trees/shelterwood until oak seedlings/saplings are more established
16	4131 - Aspen, Oak	High Density Sapling	20.0	7		cut fall 2004, now nice A3
18	6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	15.3	Uneven Age		hummocky ground with a high water table and also nuerous wet pockets, mostly a mix of spruce/RM with a few XL R/W pine, lots of blowdown due to shallow rooting of spruce/RM/WP, blowdown areas are trying to regenerate naturally to RM/BF
19	4130 - Aspen	High Density Pole	51.9	46		A6 regenerated in 1960's with rest of the aspen in the compartment, stand also has scattered R/W pine XL's and oak XL's, could final harvest part of this stand to continue balancing aspen age class distribution in the compartment and on the unit
20	4133 - Aspen, Mixed Pine	High Density Pole	15.6	46		A6 regenerated in the 1960's with the rest of the aspen stand in the compartment, now TA poles with scattered solitary and groups of R/W pine SL's, WP heavily weevilled sometime in the past, should hold OK until next YOE, hold this time as buffer for cuts to the north this YOE
21	4130 - Aspen	High Density Sapling	14.6	7		cut fall 2004, now nice A3 with scattered WP SL left for visual/diversity
23	42290 - Natural Mixed Pine	High Density Log	2.2	101	141-170	large SL and XL R/W pine with hardwood poles underneath them, recommend thinning next time to enhance OG characteristics when surrounding A6 stand is treated, some weevilling on the WP
24	6127 - Lowland Pine	High Density Log	24.7	Uneven Age	141-170	stand consists of a series of WP XL pockets separated by areas heavier to hardwoods with scattered SL/XL pine, terrain is hummocky with a high water table and stand is seasonally wet
25	429 - Mixed Upland Conifers	High Density Pole	55.2	86		hummocky ground with a high water table, ranges from dry and operable to having numerous wet potholes so it is operable in spots, JP going downhill, rest of species doing OK, shortwood and spread black spruce tops tto provide seed source or whole tree and plant/seed JP after harvest - should get some black spruce and white pine regeneration also, Kotar is PArVCo or unclassified wetland
27	6130 - Fir, Aspen, Maple	Medium Density Pole	17.0	86		lowland aspen/red maple/BS with WP saps coming in where under HW's and BF saps coming in under conifers, south part of the stand is heavier to swamp conifers

S t	Roscommo	n Mgt. Unit		5 – For	ested Sta	Ands Compartment: 029 Year of Entry: 2014
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
28	42260 - Natural Pine, Mixed Deciduous	High Density Log	2.5	Uneven Age		island of natural R/W pine with mixed HW's surrounded by cedar swamp
29	6117 - Lowland Deciduous, Mixed Coniferous	High Density Pole	3.6	91		small island of swamp hardwoods surrounded by wet conifer swamp, no access due to terrain
30	6118 - Lowland Deciduous with Cedar	High Density Pole	3.9	89		small island of swamp hardwoods/cedar surrounded by wet cedar swamp, no access due to terrain
31	6120 - Lowland Cedar	High Density Pole	429.1	109		wet swampy stand. low quality and very slow growing, scattered swamp hardwoods which are declining
32	6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	6.1	91		low/wet stand of spruce/fir and scattered HW's surrounded by cedar swamp, possible access thru 71030 to the east but stand is small with low volumes
33	42340 - Upland Spruce/Fir	High Density Pole	4.6	91		stand is a long narrow ridge of higher ground in the middle and lower ground on the edges, overall has low volume of timber, possibly access could be gained thru Eureka Hunt Club

Roscommon Mgt. Unit

### 6 – Nonforested Stands

Compartment: 029 Year of Entry: 2014



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
6	3102 - Grass	4.5	Yes	Low (NonForested)	managed wildlife opening
12	3102 - Grass	11.1	Yes	Low (NonForested)	managed wildlife opening
15	6225 - Bog	3.0	No	Unspecified	
17	122 - Road/Parking Lot	7.4	N\A	Unspecified	
22	3301 - Low Density Deciduous Tree	2.7	Natural Regen	Aspen	small opening filling in with decid. and conifer trees
26	6224 - Treed Bog	15.4	No	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



#### **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 Type Description HCVA = High Conservation Va	lue Area
Area SCA = Special Conservation A	rea