

Compartment Review Presentation

Roscommon Forest Management Unit

Compartment 26 Entry Year 2015 Acreage: 1,272 County Roscommon Management Area: Houghton Lake Wetlands

Revision Date: 05/22/2013

Stand Examiner: Dale Ekdom

Legal Description:

T24N R04W Sections 28 & 29

Identified Planning Goals:

Compartment is in the Houghton Lake Wetlands Mgt. Area. Broad management goals are to maintain current age and species diversity in a range of early and late succession ecosystems.

Soil and topography:

Topography is level to slightly rolling in the more upland northern portion of the compartment and flat in the southern portion of the compartment which is primarily swamp. Soils are Rubicon sands on the upland areas and Rifle peat in the lowland areas.

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

Compartment is a solid block of state land except for a 5 acre private parcel in the SENE of Section 28 and is surrounded by state land except in the northeast corner of Section 28. Private land in the area is mostly permanent residences on 5-10 acre wooded parcels.

Unique Natural Features:

No identified MNFI concerns.

Archeological, Historical, and Cultural Features:

None noted or detected during fieldwork.

Special Management Designations or Considerations:

A large portion of this compartment is within the Deadstream Swamp HCVA.

Watershed and Fisheries Considerations:

Deer Farm Creek starts in and flows through Section 29.

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, postglacial alluvium and peat and muck. The glacial drift thickness varies between 200 and 400 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 over one mile away and potential appears to be limited. East Norwich Field is located two 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. The entire Compartment is leased for oil and gas development.

Vehicle Access:

Vehicle access to the east part of the compartment is excellent via county roads, forest two-tracks, and the snowmobile trail. Vehicle access to the middle and west part of the compartment is non-existent due to swampy wet terrain.

Survey Needs:

None necessary at this time.

Recreational Facilities and Opportunities:

The Co. Rd. 104 snowmobile/ORV trailhead and its companion ORV and snowmobile trails are within the compartment. This compartment also experiences heavy recreational hunting and trapping including deer, bear, and turkey hunting.

Fire Protection:

The east portion of the compartment is heavy to hardwood cover types and the west portion is mostly swamp conifer types.

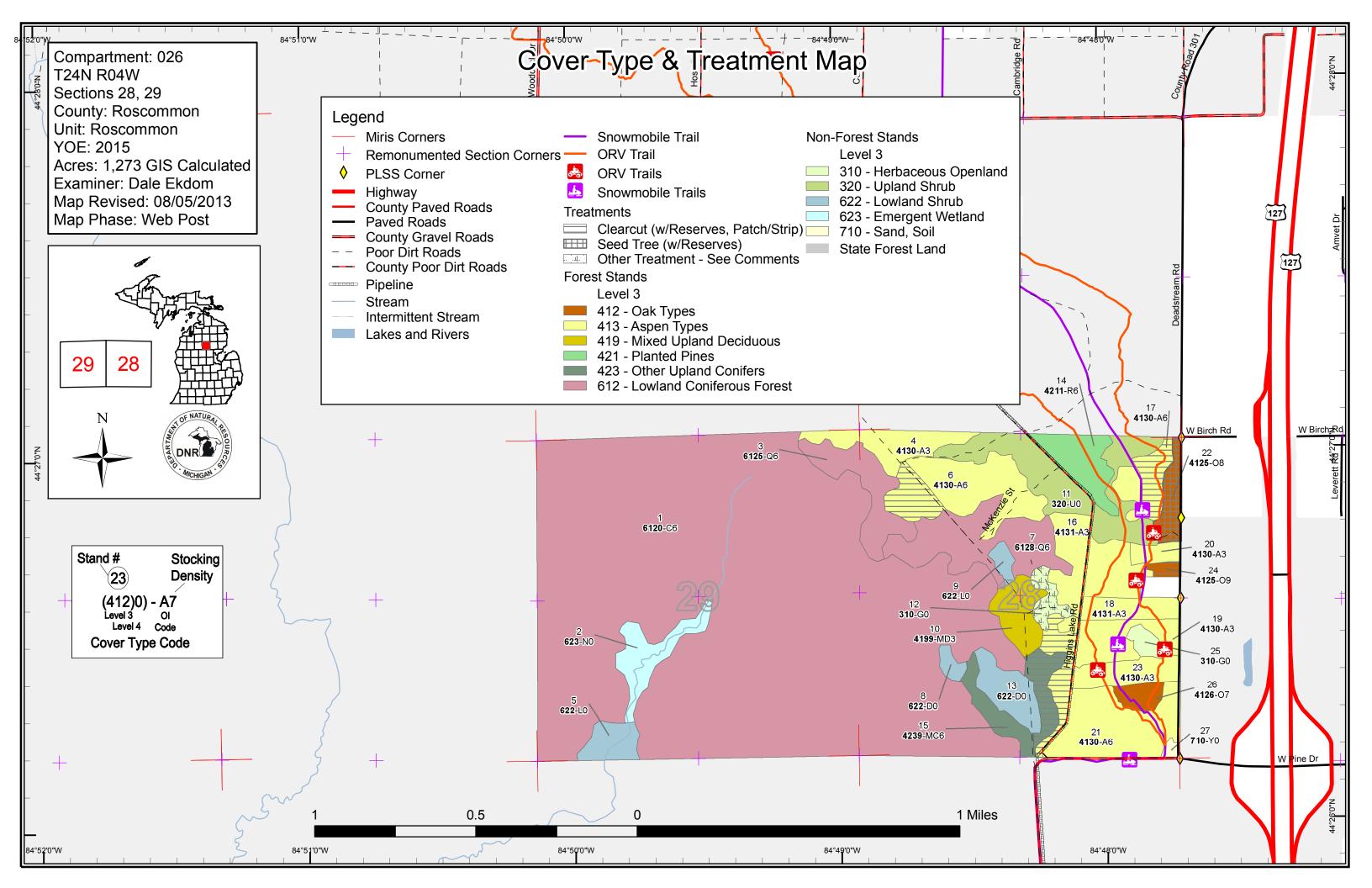
Additional Compartment Information:

Compartment has seen lots of illegal ORV use in the past but a major RDR was rehabilitated in 2005 and 2006 using ORV funds and illegal ORV use has decreased. Illegal dumping has also decreased as part of this rehabilitation project was to close off vehicle access to an old township landfill where dumping was a problem.

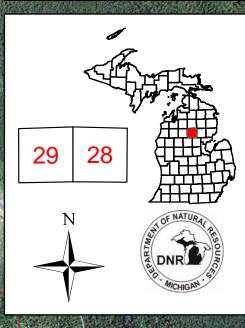
The following reports from the Inventory are attached:

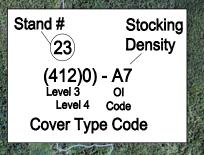
Total Acres by Cover Type and Age Class Cover Type by Harvest Method Proposed Treatments – No Limiting Factors Proposed Treatments – With Limiting Factors Stand Details (Forested and Nonforested) Dedicated and Proposed Special Conservation Areas Site Condition Details

The following information is displayed, where pertinent, on the attached compartment maps: Base feature information, stand boundaries, cover types, and numbers Proposed treatments Site condition boundaries Details on the road access system



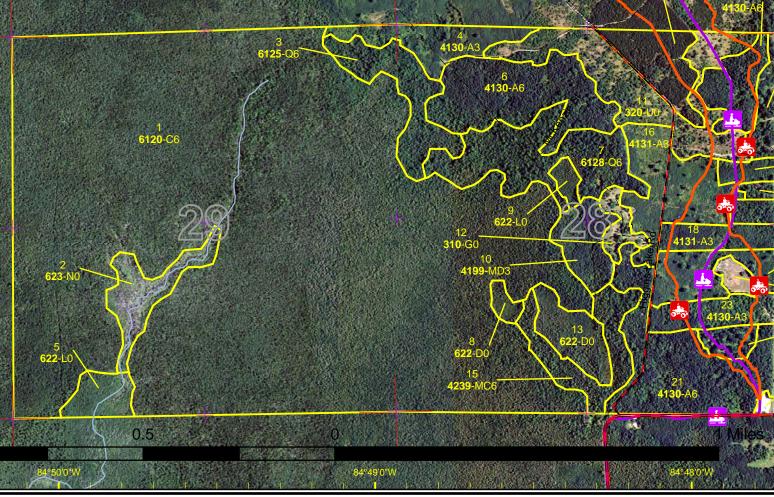
Compartment: 026 T24N R04W Sections 28, 29 County: Roscommon Unit: Roscommon YOE: 2015 Acres: 1,273 GIS Calculated Examiner: Dale Ekdom Map Revised: 08/05/2013 Map Phase: Web Post

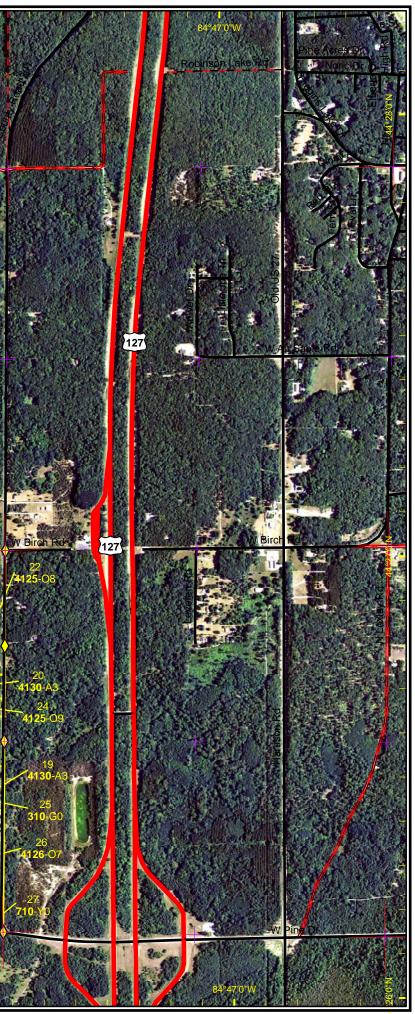


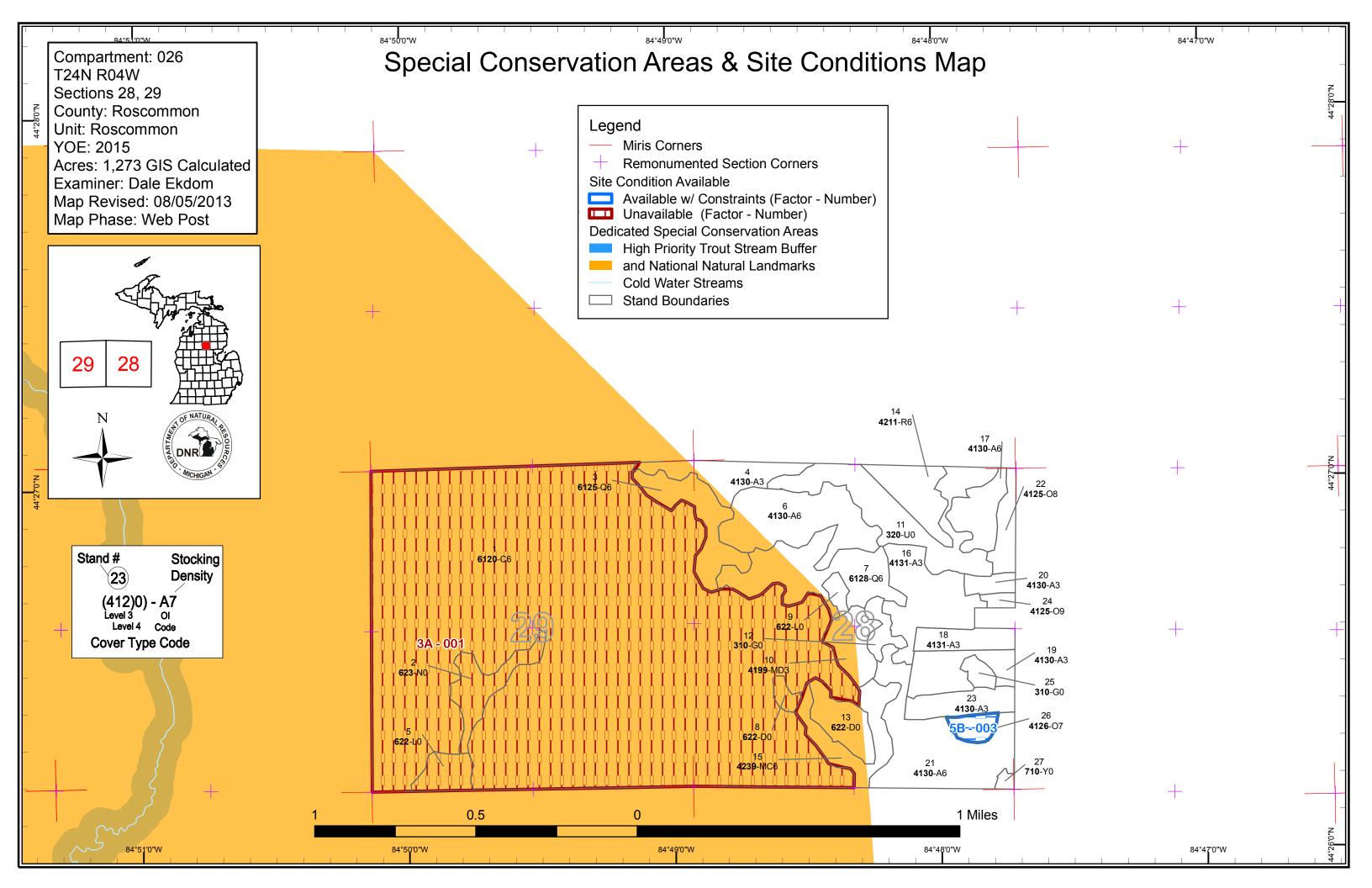


Stand Boundary Map Legend Miris Corners **Remonumented Section Corners** \diamond

- PLSS Corner
- Highway
 - County Paved Roads Paved Roads
- County Gravel Roads
- Poor Dirt Roads _ _
- County Poor Dirt Roads
- Pipeline
- Stream
- Intermittent Stream
- Snowmobile Trail
- **ORV** Trail 50
 - **ORV** Trails
- <u>___</u> Snowmobile Trails
 - Stand Boundaries







Report 1 – Total Acres by Cover Type and Age Class

Roscommon Mgt. Unit

Dale Ekdom : Examiner

Compartment 026 Year of Entry 2015



Age Class

		6.0	⁷ <i>a</i> ₇ 9	100 100 100	³ C.30	and an	³ 0.30	60.00	A A	000 000	800 A	001.00 001.00	12,12	120× 171	Les Le	les /
Aspen	81	0	36	0	125	0	0	0	0	0	0	0	0	0	242	
Cedar	0	0	0	0	0	0	0	0	0	0	751	0	0	0	751	
Herbaceous Openland	12	0	0	0	0	0	0	0	0	0	0	0	0	0	12	
Lowland Conifers	0	0	0	0	0	0	0	0	0	0	0	0	0	75	75	
Lowland Shrub	16	0	0	0	0	0	0	0	0	0	0	0	0	0	16	
Marsh	20	0	0	0	0	0	0	0	0	0	0	0	0	0	20	
Mixed Upland Deciduous	0	0	17	0	0	0	0	0	0	0	0	0	0	0	17	
Oak	0	0	0	0	0	0	0	0	0	0	11	10	0	0	21	
Red Pine	0	0	21	0	0	0	0	0	0	0	0	0	0	0	21	
Sand, Soil	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
Treed Bog	21	0	0	0	0	0	0	0	0	0	0	0	0	0	21	
Upland Conifers	0	0	0	0	0	0	0	0	24	0	0	0	0	0	24	
Upland Shrub	51	0	0	0	0	0	0	0	0	0	0	0	0	0	51	
Total	202	0	74	0	125	0	0	0	24	0	762	10	0	75	1273	



MICHIGAN	Roscommon Mgt. Unit Year of Entry 2015						Compartment Total Compartment Acres:	
			Acre	s by Treatme	ent Type			
	Commercial Harvest - 63	Tree Planting - 0	C	Other - 7				
	Habitat Cut - 0	Opening Maintena	nce - 0					
			Cov	er Type by H	larvest Meth	nod		
			<i></i>		/ & / .	1 2 6		
			Contraction of	See Contraction	Non	Solution of the solution of th		
	Aspen Types		3 7 0		UND LINGTON OF	50 ⁸⁹ 10 ⁶⁶ 6 ⁶ 10 ⁶⁶		
	Aspen Types Oak Types			\square	((
		rs	37 0	0 0	0 0	37		

S t		Roscom	mon Mgt. Unit	Repo			ents Prescri ting Factor	ibed	Compartment: 026 Year of Entry 2015	DNR DR RECEIPTION
a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
6	71026006-Cut	12.7	4130 - Aspen	High Density Pole	47		Harvest	Clearcut	4130 - Aspen	Cmpt. Review Proposal
Pres Spec			nanage for aspen, leave wer wetter areas for BN		nd R/W p	ine SL's fo	r diversity/mast,	expand into stand	to the west where feas	ible. buffer
<u>Othe</u> <u>Com</u>	<u>er</u> dormant <u>ments:</u>	season cu	ut and accept whatever	· type/amou	int of reg	eneration o	occurs, cut part v	vest of old RR grad	de	
<u>Next</u> Step										
Propo Start		14								
15	71026015-Cut	12.2	42390 - Mixed Non- Pine Upland Conifers	High Density Pole	85		Harvest	Clearcut with Reserves	4136 - Aspen, Mixed Conifer	Cmpt. Review Proposal
<u>Pres</u> Spec			nanage for hardwoods/ n as possible	pine, leave	oak and	R/W pine f	or diversity and	mast, cut with star	nd to the east so aspen	will expand into
Othe Com Next Step: Propo Start	<u>ments:</u> only this <u>s:</u> osed	YOE	out wetter edges and p	bockets for	retention	and BMP'	s, plant/seed JP	if stand is not fully	v stocked after 2 years,	cut east arm
17	71026017-Cut	11.1	4130 - Aspen	High Density Pole	47		Harvest	Clearcut	4130 - Aspen	Cmpt. Review Proposal
Pres Spec		vest and m	nanage for aspen, leave	e oak and F	R/W pine	for mast/d	iversity/visual			
<u>Othe</u> <u>Com</u> <u>Next</u> <u>Step</u>	ments: the SMT								n cut if it can done w/o and warn riders of loggi	
Propo Start		14								
21	71026021-Cut	13.4	4130 - Aspen	High Density Pole	47		Harvest	Clearcut with Reserves	4130 - Aspen	Cmpt. Review Proposal
Pres Spec		vest and m	nanage for aspen, leave		R/W pine	for diversi	y/mast			
<u>Othe</u> <u>Com</u>	<u>r</u> buffer ar <u>ments:</u>	nd/or paint	out any wetter swales	for retention	n and BM	1P's, consi	der dormant sea	son cut, cut part w	est of Higgins Lake Ro	ad
<u>Next</u> <u>Step</u>										
<u>Propo</u> Start		14								

S t		Roscom	ımon Mgt. Unit	Report 3 Treatments Prescribed with No Limiting Factor					Compartment: 026 Year of Entry 2015	DR ATURAL PRIMA
a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
22	71026022-Cut	11.3	4125 - Black, N. Pin Oak	Medium Density Log	100 g	1-50	Harvest	Seed Tree with Reserves	4121 - Oak, Aspen	Cmpt. Review Proposal
Presc Spece		e cut leavi	ing up to 20 SF/Acre o	f better qual	ity mast t	trees, favo	or white oak where	e possible		
	nents: occurs,	leave sma							ever species/amount of protect the snowmobile	
<u>Next</u> Steps	<u>:</u>									
Propos Start D		14								
24	71026024-Cut	2.8	4125 - Black, N. Pin Oak	High Density Log	112 g	1-50	Harvest	Clearcut	4125 - Black, N. Pin Oak	Cmpt. Review Proposal
Spece Other Comr	s: and visu	ual on Dea ntion other	dstream Road, than oak seed trees de	ue to age an	d size of	the stand	, accept whateve	r species and amc	rk up to 10 SF/Acre to punt of regeneration occ and warn riders of logg	urs, consider a
<u>Next</u> Steps	<u>:</u>									
Propos Start D		14								
12	NF_71026012- Other	7.3	3102 - Grass				Other	Unspecified	310 - Herbaceous Openland	Cmpt. Review Proposal
Presc Specs		opening m	aintenance as specifie	d by WLD						
<u>Other</u> Comn	nents:									
<u>Next</u> Steps	<u>::</u>									
Propos Start D		ied								
Ac	Total Treatme		0.8							

S t		Roscommon	Mgt. Unit	Report 4		eatment imiting	Compartment: 026 Year of Entry 2015	DRR DRAWNER		
a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
			#Type!							
Spec: Other	:									
<u>Comr</u> <u>Next</u> <u>Steps</u>										
Propo Start	<u>osed</u> <u>Date:</u> #Type!									
<u>Limiti</u>	ng Factor									
Ad	Total Treatme creage Propos									

Roscommon Mgt. Unit

Dale Ekdom : Examiner

Compartment 026 Year of Entry 2015

Availability for Management

	•	•						
Total	Acres	Acres		Domir	ant	Site	e Conc	ditio
Acres	Available	Not Available		No	. !	5B	3A	
242	242	0	Aspen	242	2		0	
750	0	750	Cedar	0			750	
75	75		Lowland Conifers	75				
17	17		Mixed Upland Deciduous	17				
21	21		Oak	14		7		
21	21		Red Pine	21				
24	24		Upland Conifers	24				
1,150	400	750	Total Forested Acres	393	3	7	750	
	35%	65%	Relative Percent					

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

	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
001	Not Available	3A: Potential old growth / biodiversity	786	1A: Federal/State/Local Law			
_	c omments: CA deadstream sv	vamp - national natural landm	ark				
003	Available	5B: Retention for regeneration purposes	7				
C	comments:						



Report 6 – PROPOSED SPECIAL CONSERVATION AREA* (SCA) DETAILS

* This is a partial list of SCAs for this compartment. Not included are those areas identified under other Department initiatives (Natural Rivers, Deer Wintering Areas, etc.). Those will be identified in separate, future map and report products.

SCA Name SCA Category Detail Type Recommendation Acres

Comments



Report 7 – DEDICATED CONSERVATION AREA DETAILS

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

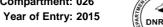
Conservati Area	ion Type	Description	ERA = Ecological Reference Area HCVA = High Conservation Value Area SCA = Special Conservation Area
SCA	Archaeological Site	An aquatic or terrestrial area of the State that contains physical r sites of cultural and historical significance that may occur upon te bottomlands. They include thousands of Native American settler and British outposts, nineteenth century logging camps, mines a the Great Lakes, there are shipwrecks and other remains docum be identified by Natural heritage data from the State Historic Pres this compartment will be implemented in such a manner as to ma the sensitive nature of this information, no further detail about log	errestrial areas and Great Lakes nents and burial sites, as well as French and homesteads. Beneath the waters of enting the maritime trade. Such sites may servation Office. Proposed treatments in aintain the integrity of these sites. Due to
SCA	Non-Dedicated Natural Areas and National Natural Landmarks	This category is comprised of those Natural, Wilderness and Wil proposed for legal dedication, but for which legal dedication by le nomination process is defined by Part 351, Wilderness and Natu Environmental Protection Act, 1994 PA 451. The program is adm require the submittal of a Natural Areas Nomination Packet to the proposed sites in various stages of review. Final dedication of no Areas is accomplished through legislative action.	egislature has not occurred. The ral Areas, of the Natural Resources and ninistered by the DNR. Nominations e DNR. This is an active program, with
HCVA	Legally dedicated Natural Areas, Wilderness or Wild Areas	The nomination process is defined by Part 351, Wilderness and and Environmental Protection Act, 1994 PA 451. The program is require the submittal of a Natural Areas Nomination Packet to the proposed sites in various stages of review. Final dedication of no Areas is accomplished through legislative action.	administered by the DNR. Nominations e DNR. This is an active program, with

S t	Roscommon Mgt. Unit			Report 8 –	Forested	Stands Compartment: 026 Year of Entry: 2015
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	6120 - Lowland Cedar	High Density Pole	750.8	104		East edge of Deadstream Swamp - SCA/HCVA
3	6125 - Lowland Black Spruce, Jack Pine	High Density Pole	27.9	Uneven Age		hummocky but somewhat operable if access can be gained across wetter drainage/potholes with tag alder which are scattered thru-out the stand. some parts are heavier to hardwoods (mostly RM), other parts are heavy to Hemlock, jack pine, and/or NWC,
4	4130 - Aspen	High Density Sapling	21.6	9		nice TA regeneration cut with stand to the north in 71025, regenerated in 2003, 2 small inclusions of WP SL in west end of stand, west of the RR grade/pipeline the stand is sparser with Hemlock poles scattered along the RR grade
6	4130 - Aspen	High Density Pole	49.4	47		A6 wiht numerous small brushy areas and wet potholes, scattered oak and R/W pine L & XL's, southeast arm has BF saplings and poles scattered thruout, some evidence of hypox canker within stand with upland aspen starting to thin itself out and lower ground aspen growing well but still smaller, cut all/part or hold as necessary to satisfy MA plan
7	6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	47.4	Uneven Age		nice W9 stand which varies from W6 to true W9 to Q6/9, scattered areas heavy to hemlock and/or XL WP which is 26+ inches dbh and or C6, appears to have been select cut in spots in the past
10	4199 - Other Mixed Upland Deciduous	High Density Sapling	16.9	24		cut to 4" spec in 1988, transition zone with upland/lowland terrain, hummocky ground with some wetter potholes, scattered basam fir and black spruce saps also
14	42110 - Planted Red Pine	High Density Pole	21.0	27	81-110	RP planted in 1985, NE tip of stand and very south tip of stand are J6
15	42390 - Mixed Non- Pine Upland Conifers	High Density Pole	24.0	85		transition zone between upland hardwoods to the east and the Deadstream Swamp on the west, west arm is several islands of somewhat higher ground cut by wetter swales and surrounded by bog and swamp, east arm is mostly high ground except for the far north and west edges of the stand, higher ground is WP/RM/BF and the lower ground is BS/BF/NWC. lots of wildlife tracks and other signs in this stand, consider cutting east arm this YOE with the aspen to the east or hold and cut in 10 years with the aspen to the east,
16	4131 - Aspen, Oak	High Density Sapling	38.0	6		A3 vut 2006, TA saps with scattered oak XL left for mast
17	4130 - Aspen	High Density Pole	17.6	47		poor quality TA with some hypoxylon canker starting especially on the bigger SL aspen left from the "choppers choice" cut in the 1960's. south end is more even-aged wth less hypox. visible, heavy u.s. of hawthorn in much of the stand
18	4131 - Aspen, Oak	High Density Sapling	13.5	24		aspen regenerated in 1988, should be A6 next YOE
19	4130 - Aspen	High Density Sapling	21.3	6		a3 cut in 2006, left scattered oak SL/XL for mast

S t	Roscommon	Mgt. Unit		Report 8	– Forested	Stands Compartment: 026 Year of Entry: 2015
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
20	4130 - Aspen	High Density Sapling	6.0	24		nice A3 regeenrated in 1988, should be A6 next YOE
21	4130 - Aspen	High Density Pole	58.0	47		poor quality TA with bulk of aspen pole-size but some SL TA scattered thru-out and heavy ins spots, stand is 2 aged as a result of a "choppers choice" cut in the 1960's, hypox. canker starting on the oldest aspen, SW corner and part east of Higgins Lake Road is heavier to poles and has areas heavy to WP poles, there is one wet swale in the center of the stand which could /should be left for retension/visual
22	4125 - Black, N. Pin Oak	Medium Density Log	11.3	100	1-50	2 aged oak stand of generally poor quality, a few areas have nice A6 clones of approx. 45 years of age, good u.s. of oak & other species, consider removing over-story, stand also has an approx. 1-2 acre inclusion of A3 on the north end which is 24 years old which could be left for visual
23	4130 - Aspen	High Density Sapling	16.6	24		A3 regenerated in 1988, should be A6 next YOE
24	4125 - Black, N. Pin Oak	High Density Log	2.8	112	1-50	Oak stand where merch A/RM were removed approx 20 years ago, oak overstory declining/dying. there are a few scattered RP and White Oak SL's within stand, oak is poor quality, cut or hold for diversity/visual
26	4126 - White, Black, N. Pin Oak	Low Density Log	6.9	112	1-50	shelterwood cut in 2005 and now 2 aged, stump-sprout RM with stump-sprout and seedling oak, understory not fully stocked but getting there, scattered areas heavy to RM seedlings, retain O/S as shelterwood for now and evaluate for O/S removal in 10 years, best oak in the compartment in terms of quality and species

Roscommon Mgt. Unit

Compartment: 026



NATURA

Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
2	623 - Emergent Wetland	19.9	N\A	Unspecified	
5	622 - Lowland Shrub	11.7	N\A	Unspecified	
8	6224 - Treed Bog	3.8	No	Unspecified	
9	622 - Lowland Shrub	4.0	N\A	Unspecified	
11	3205 - Mixed Upland Shrub	51.0	No	Unspecified	upland shrub with scattered JP saps/poles, PC saps/poles, and oak SL's, scattered areas heavy to A3 or O3,
12	3102 - Grass	7.3	Yes	High (NonForested)	
13	6224 - Treed Bog	17.5	No	Unspecified	
25	3102 - Grass	4.6	Yes	Low (NonForested)	old landfill, blocked off wtih gate/guardrail and some trenching/planting to keep illegal ORV traffic out of opening
27	710 - Sand, Soil	1.8	Yes	High (NonForested)	ORV/SMT trailhead