

# **Compartment Review Presentation**

**Roscommon Forest Management Unit** 

Compartment	165
Entry Year	2015
Acreage:	1,899
County	Roscommon
Management Area:	Upper Muskegon

### **Revision Date:** 08/07/2013

# Stand Examiner: Ben Wiese

#### Legal Description:

21N R03W Sec 22, 27 and 34

#### **Identified Planning Goals:**

Provide for sustainable ecosystem based management including forest products, wildlife and recreation. Maintain healthy and diverse forested stands. Forest management goals for this year of entry include 192 acres of aspen regeneration and 188 acres of thinning in northern hardwoods, oak and white pine.

#### Soil and topography:

The compartment is part of the highplains of the Grayling Outwash plain. There are wetlands, flat uplands and small hills and ice contact ridges. Much of the compartment is sand with a variety of soil type which include Graycalm, Croswell, Graycalm-Grayling, Otisco, Klacking, Pere Cheney, Grayling and Rubicon. There is Tawas-Lupton and Tawas-Leafrivermuck soils located in the central part of the compartment

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

The compartment is surrounded on three side by state-owned land. The south side is the Roscommon county line. There is a snowmobile trail and an ATV trail. There is a illegal ATV use on the forest roads.

#### **Unique Natural Features:**

No Unique Natural Features known.

#### Archeological, Historical, and Cultural Features:

There are known concerns within the compartment. All proposed management activities have taken these concerns into consideration.

#### **Special Management Designations or Considerations:**

None noted.

# Watershed and Fisheries Considerations:

No comments or aquatic concerns.

#### Wildlife Habitat Considerations:

None noted.

# Mineral Resource and Development Concerns and/or Restrictions

Roscommon County 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 are the Pennsylvanian Grand River and Saginaw Formations. The Saginaw is quarried for clay elsewhere in the State. Most of the good gravel pits are associated with upland areas. There mat be some potential in the Compartment. Part of Headquarters Field is located inn Section 34. The field has produced over 11.3 million BO and 4.2 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 is excellent with numerous forest roads and Pond Rd which is seasonally maintained by the county.

# Survey Needs:

None at this time.

#### **Recreational Facilities and Opportunities:**

There are no facilities but opportunites exist for hunting, hiking, foraging, and dispersed camping.

# **Fire Protection:**

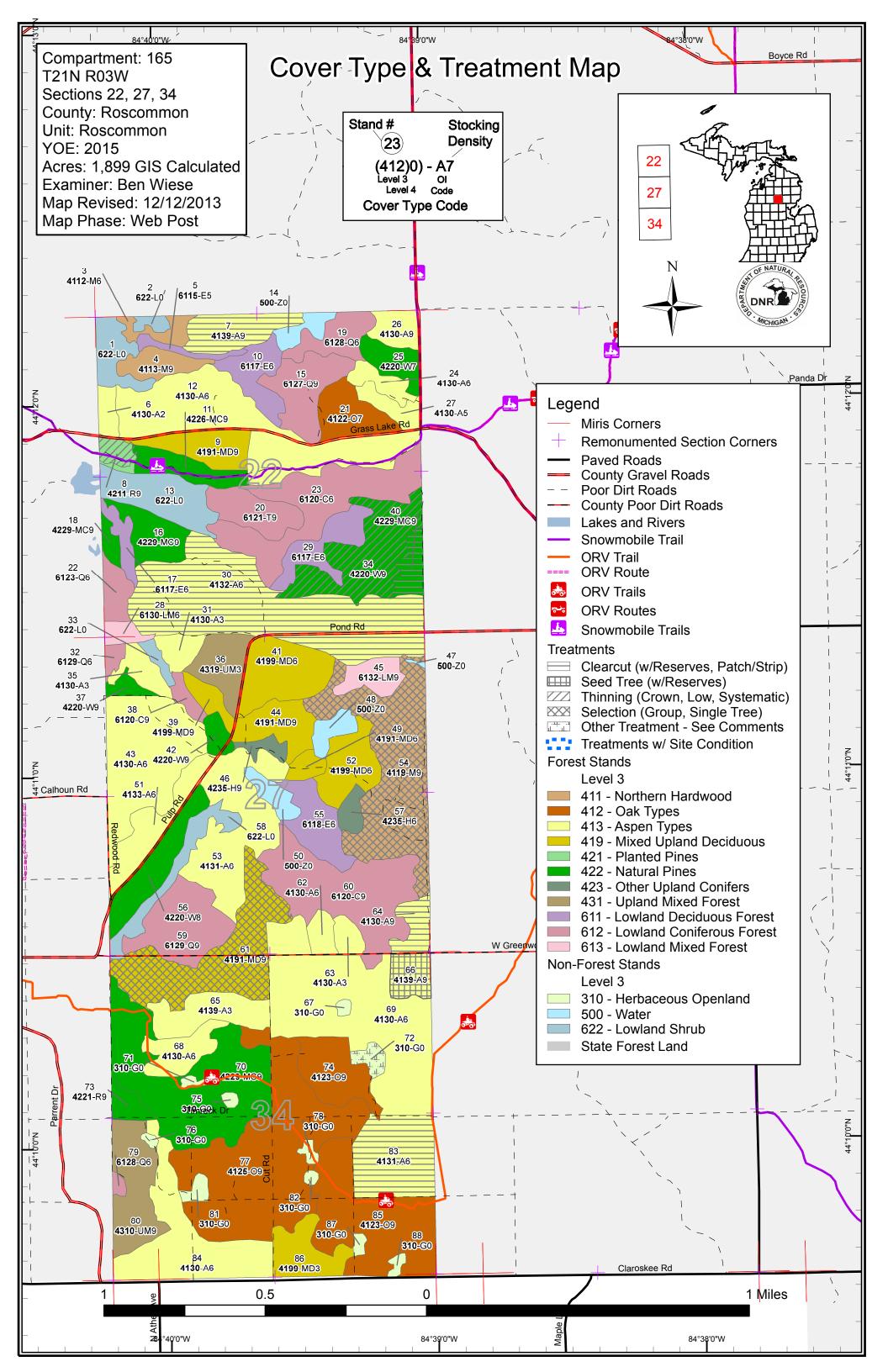
None noted

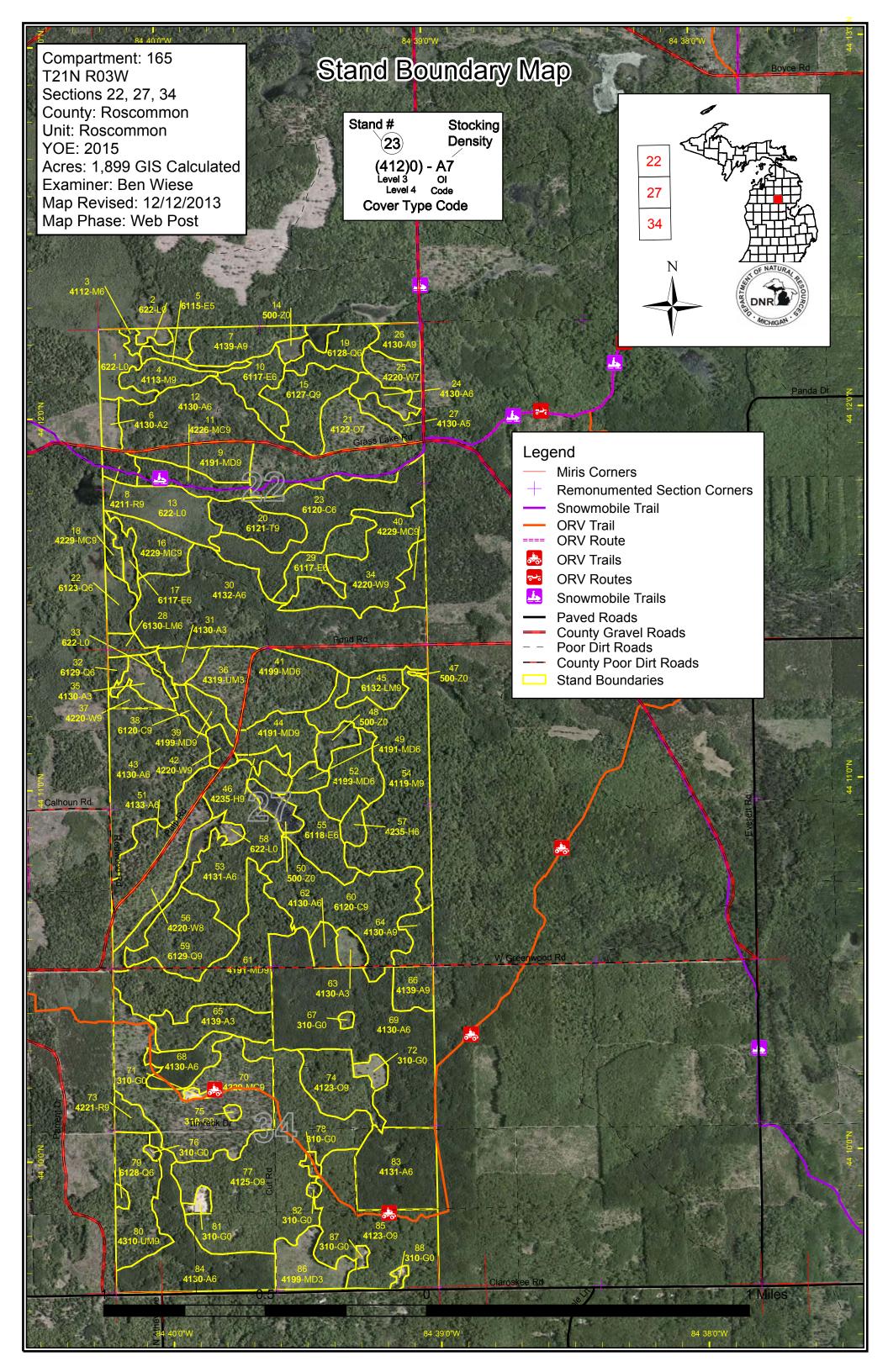
# **Additional Compartment Information:**

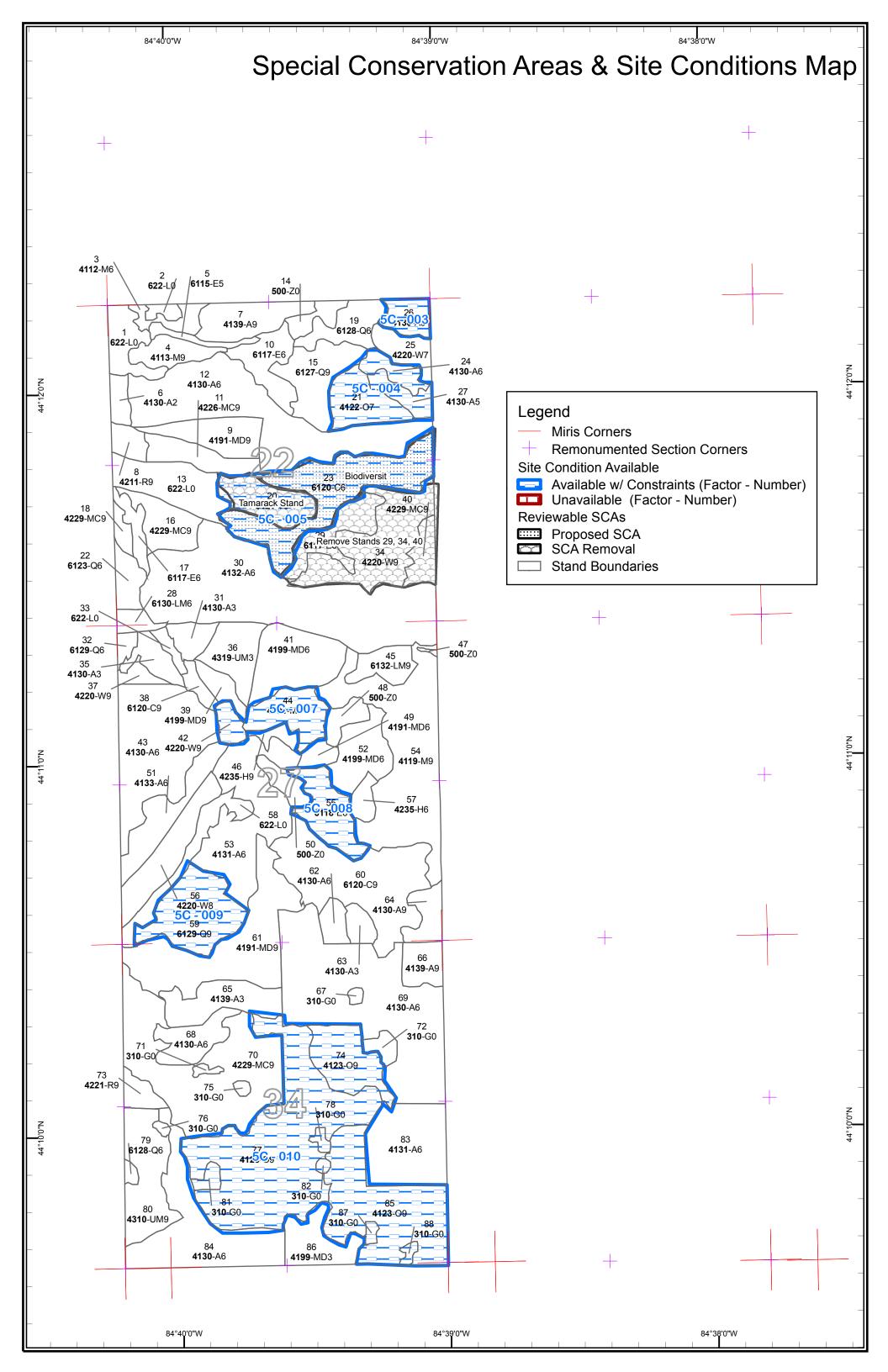
The compartment forest cover types were historicallt red/white pine, hemlock/whitepine, and jack pine.

The following reports from the Inventory are attached: Total Acres by Cover Type and Age Class Cover Type by Harvest Method Proposed Treatments – No Limiting Factors Proposed Treatments – With Limiting Factors Stand Details (Forested and Nonforested) Dedicated and Proposed Special Conservation Areas Site Condition Details

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



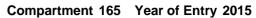




# Report 1 – Total Acres by Cover Type and Age Class

Roscommon Mgt. Unit

# **Benjamin Wiese : Examiner**





Age Class

	/	00	<sup>70,7</sup> 9	10 <sup>2</sup>	19.19 19.19	10 <sup>10</sup>	50.39	00.00 100	10 10 M	60 60 60 60	06°00	100 J	12a,179	ROP X NO	AS LO	/ (e)
Aspen	12	24	0	208	259	148	0	21	11	0	0	0	0	0	682	
Cedar	0	0	0	0	0	0	0	0	0	63	0	0	60	0	124	
Hemlock	0	0	0	0	0	0	0	0	4	0	6	0	0	0	10	
Herbaceous Openland	19	0	0	0	0	0	0	0	0	0	0	0	0	0	19	
Lowland Conifers	0	0	0	0	9	0	16	0	0	38	2	0	0	26	90	
Lowland Deciduous	0	0	0	0	25	0	23	0	21	0	0	0	0	0	68	
Lowland Mixed Forest	0	0	0	0	5	0	0	0	0	11	0	0	0	0	17	
Lowland Shrub	65	0	0	0	0	0	0	0	0	0	0	0	0	0	65	
Mixed Upland Deciduous	19	0	0	0	31	27	7	19	62	19	0	0	0	0	185	
Natural Mixed Pines	0	0	0	0	0	0	98	24	0	0	0	0	4	0	126	
Northern Hardwood	0	0	0	0	0	0	0	0	0	19	82	0	0	0	101	
Oak	0	0	0	0	0	0	0	0	63	24	112	0	19	0	219	
Red Pine	0	0	0	0	0	0	0	7	0	0	7	0	0	0	13	
Tamarack	0	0	0	0	0	0	0	0	0	0	19	0	0	0	19	
Upland Mixed Forest	0	0	0	0	19	0	0	0	0	0	31	0	0	0	50	
Water	22	0	0	0	0	0	0	0	0	0	0	0	0	0	22	
White Pine	0	0	0	0	0	16	0	24	44	0	0	6	0	0	90	
Total	137	24	0	208	348	190	144	95	205	176	258	6	83	26	1899	



Michigan .	Roscommon Mgt. Unit Year of Entry 2015									Compartment Total Compartment Acres:	
				Acres b	y Treat	ment T	уре				
	Commercial Harvest - 405	Tree Planting - 0		Othe	r - 0						
	Habitat Cut - 0	Opening Maintena	nce - 5								
				Cover <sup>-</sup>	Гуре by	/ Harve	st Meth	od			
			0	Contraction of the second	See of 1		Trining OS	Solution in the second	No. Contraction of the second		
			0	0 0	0	6	0	6			
	Aspen Types		192	0 1	0	0	0	203			
	Mixed Upland Deciduo	ous	0	62 0	0	0	0	62			
	Natural Pines		9	0 0	0	44	0	53			
	Northern Hardwood		0	82 0	0	0	0	82			
		Total	201	143 1 <sup>.</sup>	0	50	0	405			

# Report 3 -- Treatments Prescribed with No Limiting Factor

Compartment: 165 Year of Entry 2015

DNR DNR
Approval
Status

S t		F	coscomm	on Mgt. Unit	Керс			ting Factor	IDEC	Year of Entry 2015	DNR DNR
a n d	Treatme Name		Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
_	71165_Ou OE-Cu		5.7				_	Harvest	Low Thinning	42260 - Natural Pine, Mixed Deciduous	Fld. Tr. Bdy. Pending Approval
ores Spec		n to 90-	120 SF/Ac	re so as to enhance	e old growth/	bio-diver	sity charac	cteristics			
<u>) Dthe</u> Com				/RM understory whit 71163 (same stand		to be ad	dressed wi	th appropriate sa	ale specs, save W3	3 understory where pos	sible, treat with
<u>lext</u> Step					- <b>,</b>						
	<u>osed</u> Date: 10/0	)1/2012									
7	71165007	-Cut	20.7	4139 - Aspen, Mixed Deciduous	High Density Lo	75 g		Harvest	Clearcut with Reserves	413 - Aspen	Fld. Tr. Bdy. Incomplete
Pres Spec				ut with reserves to a hy crowns. The ave						archs and pole size rec	I maple and
<u>)the</u> Com	e <u>r</u> Thi ments:	s stand	is seasor	ally wet and access	is difficult.	A road wi	ll have to b	be built from the	North through com	partment 140 stand 95	
lext Step											
	<u>osed</u> Date: 10/0	)1/2014									
30	71165030	-Cut	121.6	1132 - Aspen, Jack Pine	High Density Pole	51		Harvest	Clearcut with Reserves	413 - Aspen	Fld. Tr. Bdy. Incomplete
Pres Spec				es to 2" diameter. Light feet in diameter a			ess mark s	some healthy oak	k to leave. To ben	efit wildlife create one b	orush pile per
<u>)the</u> Com	e <u>r</u> Co ments:	nsider l	eaving on	e or more retention p	pockets alon	g Pond F	۲d.				
<u>Vext</u> Step											
	<u>osed</u> Date: 10/0	)1/2014									
34	71165034	-Cut	44.3	42200 - Natural White Pine	High Density Lo	84 g	171-200	Harvest	Low Thinning	4220 - Natural White Pine	Fld. Tr. Bdy. Incomplete
Pres Spec				ncrease residual ster and best formed tre					owth of pole and lo	g, single stem, quality i	red maple.
<u>Dthe</u> Com	er ments:										
<u>Vext</u> Step											
	o <u>sed</u> Date: 10/0	)1/2014									
40	71165040	-Cut	8.8	42290 - Natural Mixed Pine	High Density Lo	74 g	111-140	Harvest	Clearcut with Reserves	429 - Mixed Upland Conifers	Fld. Tr. Bdy. Incomplete
Pres Spec		arcut a	•	ed pine. Do not cut t	the aspen. I	Protect w	/hite pine s	aplings as practi	ical, expect some o	damage. Leave some j	ack pine for a
Dthe Com	e <u>r</u> The ments:	e stand	should re	generate to mixed pi	ine with deci	duous. T	his stand s	should be cut be	fore the harvest of	stand 34 and used as a	a landing.
<u>lext</u> Step		nch an	d plant red	l pine, sight prep as	needed.						
opc	osed_										

Proposed Start Date: 10/01/2014

S t		Roscomm	on Mgt. Unit	Repo			nents Prescr ting Factor	ibed	Compartment: 165 Year of Entry 2015	AN ANTURAL PLOURAGE
a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
54	71165054-Cut	81.5 I	4119 - Mixed Northern Hardwoods	High Density Log	107 J	81-110	Harvest	Single Tree Selection	411 - Northern Hardwood	Fld. Tr. Bdy Incomplete
<u>Pres</u> Spec	•	e uneven-ag	ed management. T	hin to a resis	ual basa	al area of 8	30.			
<u>Othe</u> <u>Com</u>	<u>r</u> Manage ments:	with stand st	5 in compartment 16	37 to the east	. Set up	o in 2014 a	long with stand 5	5.		
<u>Next</u> Step:										
Propo Start		14								
61	71165061-Cut	61.8	4191 - Mixed Upland Deciduous with Conifer	High Density Log	85 9	111-140	Harvest	Single Tree Selection	4191 - Mixed Upland Deciduous with Conifer	Fld. Tr. Bdy Incomplete
<u>Pres</u> Spec			uneven-aged, mixed of 70-90. Leave mo						less of species or diam den trees.	eter to a
<u>Othe</u> Com	r_Use an ments:	understory p	protection spec. but	expect dama	ge.					
<u>Next</u> Step:										
Propo Start		14								
64	71165064-Cut	10.1	4130 - Aspen	High Density Log	47	111-140	Harvest	Clearcut with Reserves	413 - Aspen	Fld. Tr. Bdy Incomplete
Pres Spec		rvest, clearc	cut with reserves. Le	eave healthy	large cro	own oak, m	haple and pine as	s reserve trees.		
<u>Othe</u> Com	<u>r</u> Harvest ments:	in 2014 with	adjacent stand 13	in cmopartme	ent 167.					
<u>Next</u> <u>Step</u> :										
Propo Start		14								
66	71165066-Cut	10.8	4139 - Aspen, Mixed Deciduous	High Density Log	85 )	81-110	Harvest	Seed Tree with Reserves	413 - Aspen	Fld. Tr. Bdy Incomplete
<u>Pres</u> Spec	<u>s:</u> basswoo		th part of the stand.						20-40 BA of oak, red m dense. Leave some of	
<u>Othe</u> <u>Com</u>	<u>r</u> ments:	•								
<u>Next</u> Step:										
Propo Start		14								

S t		Roscomn	non Mgt. Unit	Repo			ents Prescri ting Factor	bed	Compartment: 165 Year of Entry 2015	AND NATURE RECOUNTS
a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
83	71165083-Cut	39.3	4131 - Aspen, Oak	High Density Pole	36	111-140	Harvest	Clearcut with Reserves	413 - Aspen	Fld. Tr. Bdy Incomplete
<u>Pres</u> Spec		rvest, clear	cut with reserves to a 2	2" diameter	. Mark t	o leave so	me good formed	potential sawlog c	oak and maple, in clump	os if possible.
<u>Othe</u> Com	<u>r</u> ments:									
<u>Next</u> Step										
Propo Start		14								
72	NF_71165072- NonFor	4.6	3102 - Grass				Non-Forest Management	Other - Specify	3102 - Grass	Fld. Tr. Bdy Incomplete
<u>Pres</u> Spec		anaged ope	ning for rye. Maintain	as needed						
<u>Othe</u> Com	<u>r</u> ments:									
<u>Next</u> Step										
Propo Start		14								

Total Treatment Acreage Proposed: 409.4

S t		Roscommoi	n Mgt. Unit	Report 4		eatment imiting.	Compartment: 165 Year of Entry 2015	DNR DNR		
a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
		#Type!	#Type!							
Preso Spec Other Com	<u> </u>									
<u>Next</u> Steps										
Propo Start	<u>osed</u> <u>Date:</u> #Type!									
<u>Limiti</u>	ng Factor									
A	Total Treatme creage Propose									

Roscommon Mgt. Unit

Compartment 165 Year of Entry 2015

# Ben Wiese : Examiner

# Availability for Management

Total	Acres	Acres		Domina	nt Site	e Conditions
Acres	s Available	Not Available		No	5C	
681	681		Aspen	646	36	
123	123		Cedar	68	55	
10	10		Hemlock	9	1	1
90	90		Lowland Conifers	54	36	1
68	68		Lowland Deciduous	46	22	
17	17		Lowland Mixed Forest	17		1
185	185		Mixed Upland Deciduous	161	23	
126	126		Natural Mixed Pines	124	2	1
101	101		Northern Hardwood	100	1	1
218	218		Oak	0	218	
13	13		Red Pine	13		
19	19		Tamarack		19	
50	50		Upland Mixed Forest	50		
89	89		White Pine	83	6	
1,790	1,790		Total Forested Acres	1,372	418	
	100%		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
003	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	10				
	Comments:						
004	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	37				
	Comments:						
	comments:						

Commen 007 Ava Commen	ailable 5C: Delay treatment for age/size class diversity or exceptional site quality	78	
007 Ava Commen 008 Ava	nts:		
Commen 008 Ava			
008 <b>Av</b> a	ailable 5C: Delay treatment for age/size class diversity or exceptional site quality	27	
	nts:		
Commen	ailable 5C: Delay treatment for age/size class diversity or exceptional site quality	22	
	nts:		
009 <b>Ava</b>	ailable 5C: Delay treatment for age/size class diversity or exceptional site quality	37	
Commen	nts:		
010 <b>Ava</b>	ailable 5C: Delay treatment for age/size class diversity or exceptional site quality	218	
Commen	nts:		



#### 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
Biodiversit Comments	Potential Old Growth		SCA	54.7
Tamarack Stand Comments Does not meet sca criteria	Spring-Seeps, Riparian Areas	Spring Seep	SCA Removal	18.8
Remove Stands 29, 34, 40 Comments	Potential Old Growth		SCA Removal	73.5



# 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.

Conservation Type Description Area	ERA = Ecological Reference Area HCVA = High Conservation Value Area SCA = Special Conservation Area
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S t	Roscommon Mgt. Unit			Report 8 –	Forested	Stands Compartment: 165 Year of Entry: 2015
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
3	4112 - Maple, Beech, Cherry Association	High Density Pole	7.3	97	81-110	Seasonally wet red maple and conifer stand. Scattered low spots. Trace ammounts of paper birch and aspen.
4	4113 - R.Maple, Conifer	High Density Log	11.9	95	81-110	Red maple mixed with white pine and a small percentage of aspen which is senescing and trace ammounts of paper birch and oak. The red maple age is based on the stand to the north. The white pine is uneven aged, some poles are just entering the canopy. There are super canopy red and white pine.
5	6115 - Lowland Ash	Medium Density Pole	4.6	61	1-50	Stand is lowland ash and maple, water flows from the southeast. Understory is balsam fir and alder.
6	4130 - Aspen	Medium Density	5.8	7		Aspen with oak, chery, maple and jack pine. Regen is
7	4139 - Aspen, Mixed Deciduous	High Density Log	20.7	75		Mature aspen stand with red maple, pit and mound topography wetter to the north the pine is very good. White pine of various heights is well developed in the understory, in some places just reaching into the canopy. The aspen is beginning to senesce the east part of the stand has more aspen in the canopy and the west side has more red maple in the canopy. White pine is mostly super canopy. The white pine understory density is full in some places and low in others.
8	42110 - Planted Red Pine	High Density Log	6.6	102	141-170	Mature red pine stand that is pasrt of a larger stand to the west. The stand has nice cabin logs and utility poles, the understory is fully stocked.
9	4191 - Mixed Upland Deciduous with Conifer	High Density Log	19.3	79	81-110	Mised stand with red maple and white pine. The red maple is two-aged and is the dominant canopy species. There are trace red pine and white oak log size trees. There is very little subcanopy development.
10	6117 - Lowland Deciduous, Mixed Coniferous	High Density Pole	17.4	49	51-80	Mixed lowland deciduous with some conifer.
11	42260 - Natural Pine, Mixed Deciduous	High Density Log	15.2	70	51-80	Mixed upland stand that borders a lowland white pine age and size is variable and difficult to age. The understory is well develpoed.
12	4130 - Aspen	High Density Pole	83.9	30	51-80	Quaking aspen stand that looks like it was diamter limit cut in the past. Aspen is of various ages and diamters. The aspen is of poor quality. Oak is present but the stocking is low. White pine saplings are scattered throughout the understory.
15	6127 - Lowland Pine	High Density Log	26.1	Uneven Age	81-110	Uneven aged vigorous white pine stand with scattered deciduous. Balam fir understory is dense in places. Fire scarred white pine stumps.
16	42290 - Natural Mixed Pine	High Density Log	16.9	60	81-110	Mixed pine mostly red pine with white pine and jack pine. The red pine is growing very well, good potential for power poles excellent red pine site. Fire scarred white pine stumps present.

S t	Roscommon Mgt. Unit			Report 8	– Forested	Stands Compartment: 165 Year of Entry: 2015
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
17	6117 - Lowland Deciduous, Mixed Coniferous	High Density Pole	7.2	40	51-80	Lowland red maple and white pine, the red maple is at least two aged. There is a beaver pond ni the middle of the stand.
18	42290 - Natural Mixed Pine	High Density Log	4.0	136	111-140	Small natural mixed pine stand surrounded by wetland. White pine and red pine are mixed and 90 plus feet tall. The subcanopy is well developed with white pine and balsam fir. Age was estimated because the increment borer was to small.
19	6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	15.5	65		
20	6121 - Tamarack	High Density Log	19.0	101	81-110	Tamarack with some red maple and balsam fir. Lowland stand with variable density.
21	4122 - Oak, Pine	Low Density Log	19.0	125	1-50	Stand was harvested in clearcut 2007 by harvesting all trees except white oak, white pine and black cherry. Trace balsam fir.
22	6123 - Lowland Fir	High Density Pole	9.1	47	51-80	Lowland balsam fir and red maple. Part of stand has a small pond made from a beaver dam and is non forested.
23	6120 - Lowland Cedar	High Density Pole	55.7	178	111-140	Lowland mixed conifer with super canopy white pine and a dense subcanopy.
24	4130 - Aspen	High Density Pole	8.2	50	81-110	Medium to poor quality quaking aspen stand with white pine in the understory in the west part of the stand.
25	42200 - Natural White Pine	Low Density Log	11.5	53	1-50	Stand was clearcut in 2007 by cutting all trees except white oak, white pine and black cherry. Regen height and density is variable, stocking is adequate. Trace ammount of red pine.
26	4130 - Aspen	High Density Log	9.7	50	111-140	Aspen stand with a strip of red maple and oak running east and west through the center of the stand. Age is based on aspen to the south. Trace ammount of white oak.
27	4130 - Aspen	Medium Density Pole	8.4	50	81-110	Aspen stand with jack pine isolated to the north.
28	6130 - Fir, Aspen, Maple	High Density Pole	5.1	40	81-110	Lowland stand with balsam fir and red maple. The fir is of variable age and diameters.
29	6117 - Lowland Deciduous, Mixed Coniferous	High Density Pole	18.6	62	51-80	Lowland red maple and conifer. The red maple is mostly single stem poles and is multi aged.
30	4132 - Aspen, Jack Pine	High Density Pole	121.6	51		Quaking aspen stand with semi open areas and areas with white pine and jack pine.
31	4130 - Aspen	High Density Sapling	8.1	18		Aspen stand approximately 15-20 years old, mixed with cherry, white pine and balsam fir.

S t	Roscommon Mgt. Unit			Report 8	– Forested	Stands Compartment: 165 Year of Entry: 2015
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
32	6129 - Mixed Coniferous Lowland Forest	High Density Pole	3.1	91		
34	42200 - Natural White Pine	High Density Log	44.3	84	171-200	Natural white pine stand, with some red pine. The basal area is high in many places, the trees are crowded. This site grows excellent pine. The stand would benefit from thinning. There are at least two cohorts of white pine in the canopy, there is the log/pole size which is 84 years old and a x size of older larger trees.
35	4130 - Aspen	High Density Sapling	9.6	18		Aspen stand year of origin 1995.
36	4319 - Mixed Upland Forest	High Density Sapling	18.6	47		Stand is two-aged with white pine being the dominant canopy species. Harvest in 2006 by cutting all trees 5" or more dbh except white oak, white pine and black cherry.
37	42200 - Natural White Pine	High Density Log	4.2	57	51-80	
38	6120 - Lowland Cedar	High Density Log	4.7	143	111-140	Lowland mixed conifer, mostly cedar and red maple. A small creek flows north through the stand. 17" beech growing in the middle of the stand along the creek.
39	4199 - Other Mixed Upland Deciduous	High Density Log	7.1	62	111-140	Mixed upland stand with aspen that is senescing, Oak is healthy and growing well but sawlog quality is medium to poor. Balsam fir is present but mostly to the north.
40	42290 - Natural Mixed Pine	High Density Log	8.8	74	111-140	Mixed pine with scattered quaking aspen. Red pine log size trees are scattered throughout. White pine understory.
41	4199 - Other Mixed Upland Deciduous	High Density Pole	31.4	44	81-110	Mixed aspen with deciduous. The stand density is variable, there are some open areas. The aspen is in patches interspersed with oak and maple. The stand appears to have beeen harvested roughly 30 years ago, by removing merchantable pulp.
42	42200 - Natural White Pine	High Density Log	5.7	117	141-170	Very nice mature white pine stand with a creek that flows to the north. Oak is mostleto the east part of the stand where the elevation is slightly higher.
43	4130 - Aspen	High Density Pole	62.7	37		
44	4191 - Mixed Upland Deciduous with Conifer	High Density Log	19.1	98	111-140	Mixed upland stand with medium quality oak sawlogs and super canopy white and red pine. The sub canopy is well developed.
45	6132 - Mixed Lowland Forest with Cedar	High Density Log	11.5	95	111-140	Lowland mixed conifer with deciduous, with scattered super canopy white pine.
46	42350 - Upland Hemlock	High Density Log	4.3	82	111-140	Hemlock stand that is seasonally wet with super canopy white pine, trace paper birch and oak and a red maple understory.

S t	Roscommon Mgt. Unit			Report 8	– Forested	Stands Compartment: 165 Year of Entry: 2015	
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:	
49	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	5.3	51	81-110	Aspen and red maple. The red maple is mostly multi stemmed and looks like it was cut in the past. There is a dense balsam fir understory and super canopy red pine. There is a hemlock pocket south of the two trail.	
51	4133 - Aspen, Mixed Pine	High Density Pole	21.8	37	51-80	Mixed deciduous with pine. Clones of bigtooth aspen scattered through stand. Stocking is variable. There is a pocket of red and white pine logs in the north part of the stand.	
52	4199 - Other Mixed Upland Deciduous	High Density Pole	21.4	51	111-140	This stand is mostly two-aged. There is beech scattered in the canopy and sub-canopy. There is scattered super canopy red oak and scattered ash log trees. There is trace paper birch and some yellow birch. The red maple is both single and multi stemmed of good quality, the poles should develop into good sawlogs.	
53	4131 - Aspen, Oak	High Density Pole	54.3	44	81-110	This stand is mostly aspen with oak and red maple of various diameters. It looks like the red maple was removed sometime in the past because there is a cohort of muli stemmed red maple. There are paper birch poles growing mostly on old white pine stumps.	
54	4119 - Mixed Northern Hardwoods	High Density Log	81.5	107	81-110	This is a northern hardwoods stand that was thinned in 1998. It consists of large dominant red oak, sugar maple, red maple, beech birch, basswood, and ash. The ash has emerald ash borer. There is more red maple in the northwest part of the stand and also balsam fir in the understory. There are some wet runs with cedar in the north pasrt of the stand. The beech is unevenly distributed. The slash from the previous harvest is mostly decayed.	
55	6118 - Lowland Deciduous with Cedar	High Density Pole	20.8	85	81-110	Mostly quaking aspen with a balsam fir understory, there is also red maple and white pine. The stand is seasonally wet in areas and there is some cedar, mostly along the southwest edge.	
56	42200 - Natural White Pine	Medium Density Log	24.0	77	51-80	This stand was harvested in 2006 by clearcutting and leaving all trees except white oak, white pine, and black cherry with a 5" or more dbh. The stand has at least three cohorts, a cohort of white oak, one of white pine and one of recently regenerated oak and maple. The oak and maple regenerated in 2006 is considered the understory.	
57	42350 - Upland Hemlock	High Density Pole	5.6	105	111-140	Hemlock stand with red oak.	
59	6129 - Mixed Coniferous Lowland Forest	High Density Log	34.9	97	171-200	Stand is hemlock and white pine with some maple and a small ammount of oak and some scattered quaking aspen. This site is unique there are low wet areas low hills or upland ridges.	
60	6120 - Lowland Cedar	High Density Log	63.5	99	111-140	This stand is lowland cedar mixed with other conifer and deciduous.	

S t	Roscommon Mgt. Unit			Report 8	– Forested	Stands Compartment: 165 Year of Entry: 2015
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
61	4191 - Mixed Upland Deciduous with Conifer	High Density Log	61.8	85	111-140	Stand was thinned in 1999. The canopy is upland deciduous with white pine and scattered red pine. The white pine is mostly log sized in dense pockets that need to be thinned and also unevenly distributed within the stand. the understory is well developed and dense in some areas. There is some beech in the understory mostly in the north and east part of the stand. There is an old grade that runs SW-NE through the stand.
62	4130 - Aspen	High Density Pole	6.6	14		Aspen stand regenerated in 1998.
63	4130 - Aspen	High Density Sapling	6.0	5		Aspen stand that was regenerated in 2007.
64	4130 - Aspen	High Density Log	10.1	47	111-140	Bigtooth aspen stand entering log size.
65	4139 - Aspen, Mixed Deciduous	High Density Sapling	22.8	45		This stand was harvested in 1997 by cutting all trees 2" or more in diamter except green marked trees.
66	4139 - Aspen, Mixed Deciduous	High Density Log	10.8	85	81-110	This stand is mostly upland but transitions to lowland north of the road where there are some wet areas. The aspen is mostly located in the south part of the stand. There is some white ash and basswood north of the road. The red maple sub canopy is dense in the south part of the stand, the heights are variable and some of the vigorous trees are reaching into the canopy.
68	4130 - Aspen	High Density Pole	15.6	42	141-170	Aspen stand stand just reaching log size. There is some scattered white pine. The subcanopy is of variable density.
69	4130 - Aspen	High Density Pole	104.6	45	141-170	Large aspen stand mostly big tooth, mixed with red maple and oak.
70	42290 - Natural Mixed Pine	High Density Log	81.3	65	1-50	This stand was harvested in 2009 by cutting all merchantable trees except white oak, red pine and white pine. The age and diameter is variable. There is an ORV trail that runs through tthe stand. The canopy density is variable it ranges from low stocking to overstocked.
73	42211 - Natural Red Pine, Mixed Deciduous	High Density Log	6.6	70	111-140	This stand is mostly red pine and is likely representative of the adjacent stand before it was harvested. The aspen is senescing. The sub-canopy is well develpoed, mostly red maple and white pine the white pine is reaching into the canopy in some places.
74	4123 - Red Oak	High Density Log	24.3	95	111-140	This is a nice red oak stand on a good site that was previously harvested by removing the aspen. This is the quality long-lived red oak, the core showed that there was a growth response to the harvest. These trees are healthy.
77	4125 - Black, N. Pin Oak	High Density Log	112.0	103	81-110	This stand is mixed oak with white pine. The oak is med. to poor sawlog quality. The pine is growing very well. The subcanopy is mostly white pine, it is very well established in the west part of the stand. There is a ~3 acre pocket of red and white pine in the east part of the stand. This stand is converting to white pine.

S t	Roscommo	Roscommon Mgt. Unit			– Forested	Stands	Compartment: 165 Year of Entry: 2015	OF NATURAL PRODURCE
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range		General Comments:	MICHIGAN .
79	6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	1.7	103				
80	4310 - Pine, Oak Mix	High Density Log	31.3	103	51-80			
83	4131 - Aspen, Oak	High Density Pole	39.3	36	111-140	Aspen stand, both quaking	Aspen stand, both quaking and bigtooth with some oak and rea maple.	
84	4130 - Aspen	High Density Pole	51.5	44	111-140	Bigtooth aspen stand mixed with red oak an dred maple, the aspen just entereing log class. There is red maple in the understory but it is unevenly distributed. White oak is present but in trace ammounts.		ole in the
85	4123 - Red Oak	High Density Log	63.3	87	81-110	This stand was harvested in 1996 by cutting all of the aspen and red maple with at least one pulp stick. The canopy species are primarily red oak of good quality. Where the basal area is currently 100 or less there was a good growth response to the thinning, it took about three years for the annual diameter growth to increase. Two dominant trees were cored from this stand, the ages were 87 and 97. The aspen and maple sub- canopy is well developed and growing vigorously.		species are al area is onse to the diameter ed from this maple sub-
86	4199 - Other Mixed Upland Deciduous	High Density Sapling	19.3	5		This stand was regenera patches of open areas, th red maple and aspen are 1 both single stem and stum 5 ftt tall and the s	at will likely fill in. The stu 0-15 feet in height. The	ump sprout oak regen is is less than

**Roscommon Mgt. Unit** 

Stand

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2

13

14

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48

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71

72

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87

#### **Report 9 – Nonforested Stands**

Compartment: 165 Year of Entry: 2015



Managed **Management Priority General Comments:** Cover Type Acres Site (Objective) Unspecified 6220 - Alder/willow 14.4 No 6220 - Alder/willow 3.0 No Unspecified 27.4 6220 - Alder/willow Unspecified No 50 - Water 6.8 No Unspecified 6220 - Alder/willow 3.4 Unspecified Unspecified Scattered white pine. 50 - Water Unspecified 0.4 No 50 - Water 7.2 Unspecified Unspecified Old beaver pond with standing dead and wind thrown trees. 7.5 Unspecified flooded beaver pond with standing dead trees. 50 - Water No 6220 - Alder/willow 16.4 No Unspecified Grass and alder. 3102 - Grass 1.3 Unspecified Unspecified Unspecified 3102 - Grass 1.4 No 3102 - Grass 4.6 No Unspecified 3102 - Grass 1.3 Unspecified No 3102 - Grass 1.1 No Unspecified Cover is an estimate because conditions were snowy at the time of inventory. Looks like an old landing. 1.9 Unspecified 3102 - Grass No 3.2 Unspecified Looks like there is sand grass and knapweed. 3102 - Grass No Site of old fire tower. 3102 - Grass 1.1 No Unspecified

3102 - Grass

1.5

No

Unspecified

# Report 9 – Nonforested Stands

Compartment: 165 Year of Entry: 2015



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
88	3102 - Grass	1.6	No	Unspecified	May have been used as a landing to harvest the adjacent stands.