

# **Compartment Review Presentation**

Baraga Forest Management Unit

Compartment 24 Entry Year 2016

Acreage: 2,220

County Baraga

Management Area: Covington/Ned Lake

### Revision Date: 04/09/2014

Stand Examiner: Fred Hansen

### Legal Description:

BARAGA COUNTY, COVINGTON TOWNSHIP 48N, R33W, Sections 28, 29, 30, 31, 32. T48N, R34W, Sections 25, and 36.

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

The Covington/Ned Lake management area is mostly on a Ground Moraines in Southern Baraga County. The state forest covers 29,310 acres in somewhat scattered parcels. The major ownerships in this vicinity are forest industry and non-industrial private. The management area is dominated by northern hardwood, lowland spruce/fir and lowland conifer cover types. Other attributes that played a role in the definition of this management area include:

• Dominated by two natural communities: mesic northern forest and poor conifer swamp;

- Mid-range in site quality;
- Provides multiple benefits including forest products and dispersed recreational activities;
- · Provides a variety of fish and wildlife habitats; and
- Center of the western Upper Peninsula moose range.

The management priority in this area is to continue to provide these multiple benefits while minimizing user conflicts. Management for moose has been identified as a priority in this area.

#### Soil and topography:

Terrain is level to rolling with low ridges, and broad wetlands. Soils are Carbondale and Tacoosh mucks, Dawson and Greenwood peats, Champion Cobbly silt loams, and Champion-Net-Michigamme complex.

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

The West boundary of this compartment is the Murphy River. The North boundary is the Escanaba and Lake Superior Railroad grade. Industrial and small private ownerships border the South and East sides of the compartment. Two private recreational 40 acre properties are interior to the compartment. The area is predominately managed for timber, but is also utilized by hunters for deer, bear, and ruffed grouse.

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

No Unique Natural Features known.

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

No Archeological, Historical, or Cultural Features known.

# **Special Management Designations or Considerations:**

Access to the compartment is limited to the Murphy road which extends east/west along the north side. A bridge is needed to access the lands east of the Vermilac River.

# Watershed and Fisheries Considerations:

The streams in this compartment: Vermilac River and Murphy River are not listed trout streams. Maintain best management practices when cutting near these streams.

# Wildlife Habitat Considerations:

Moose are present in this compartment. Preservation of deep shade adjacent to aquatic feedings sites is desired for thermal regulation during the summer.

# Mineral Resource and Development Concerns and/or Restrictions

Sections 28 - 33, T48N-R33W, Baraga County

Surface sediments consist of peat and muck and an end moraine of coarse-textured till, some areas thin to discontinuous. There is insufficient data to determine the glacial drift thickness. The Precambrian Michigamme Formation subcrops below the glacial drift. There is not a current economic use for the Michigamme. The nearest gravel pit is located one mile to the northeast and potential appears to be good on the upland areas. The closest iron mines are located ten miles to the north

and are abandoned. None of the State land in this area has been leased for metallic exploration. There is no economic oil and gas production in the UP.

#### Vehicle Access:

The only vehicle access to the compartment is by means of the county rd. (Murphy Rd.) which ends approximately ¼ mile east of the Murphy River in the NENE of sec. 25. An all season two-track road extends from the county road, eastward to the Vermilac River, thence south for approximately ½ mile. The balance of the road system in the compartment is limited to 4x4, and ORV traffic. Much of the area is very wet, and is limited to winter access. The east half of the compatment needs a temporary bridge for managament access over the Vermilac River.

#### **Survey Needs:**

Survey work is in progress.

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

The main recreational activity is hunting for bear, deer and grouse. There are no developed recreational facilities in this compartment.

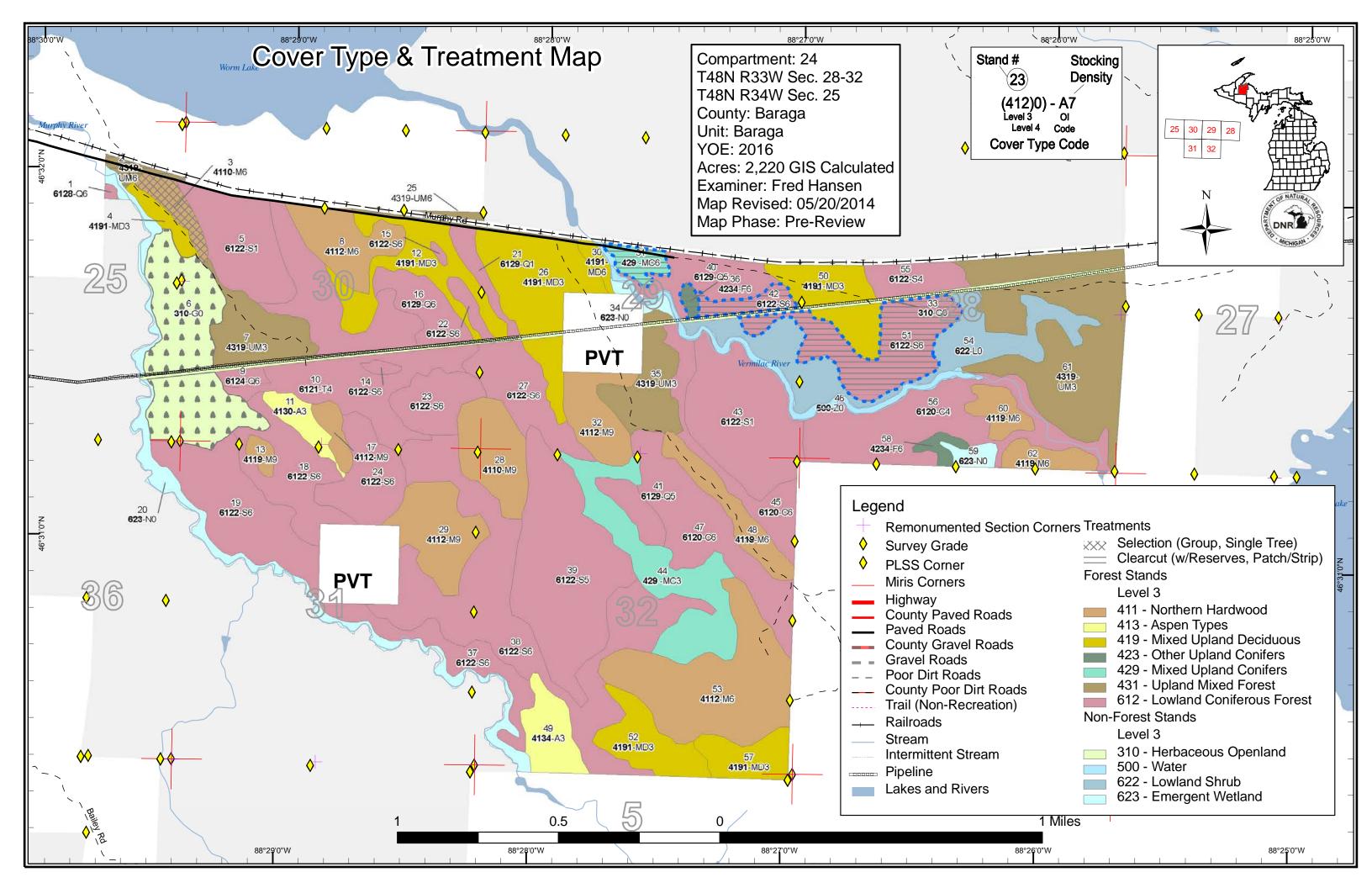
#### **Fire Protection:**

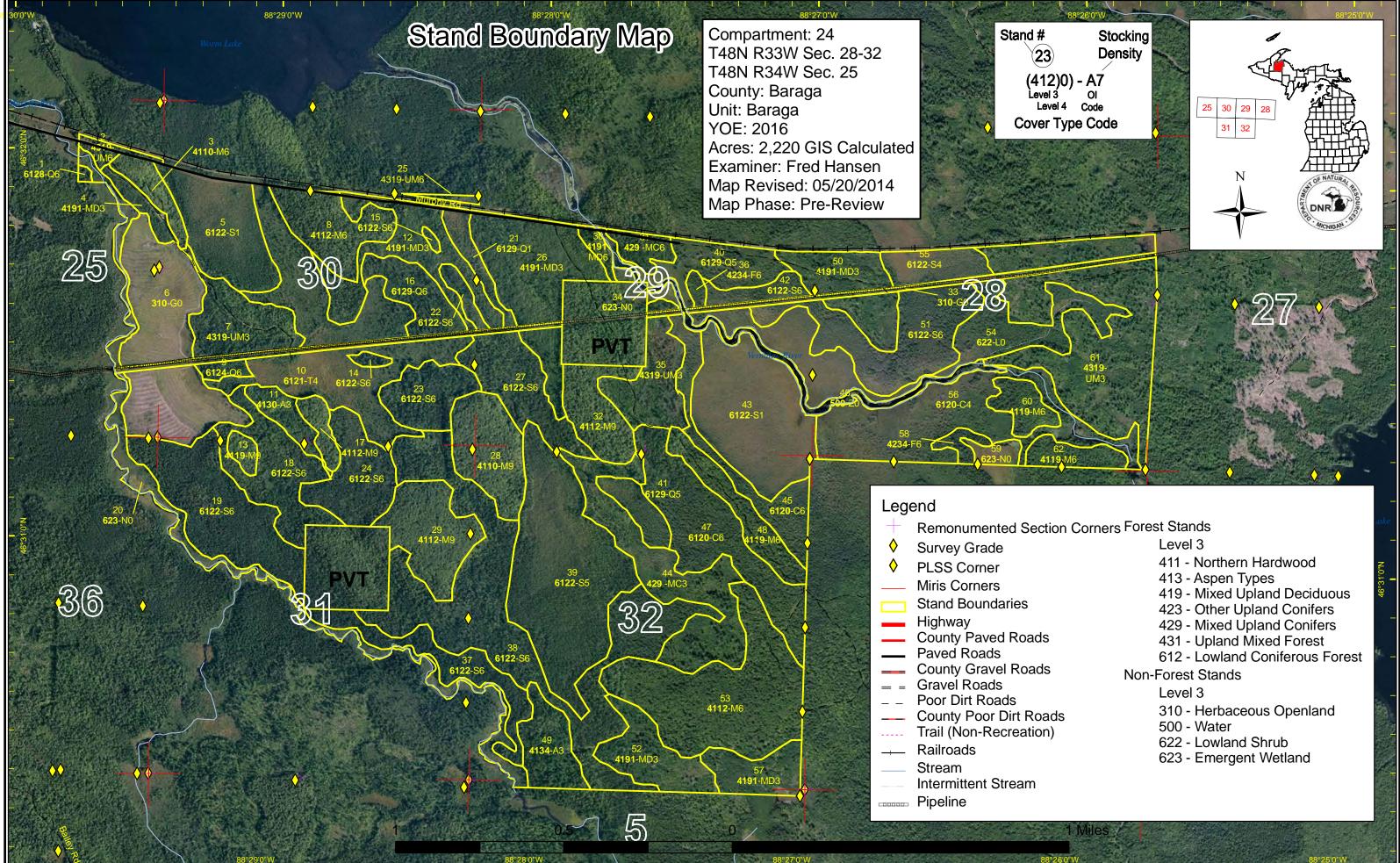
This area has historically seen very low wildfire activity.

#### **Additional Compartment Information:**

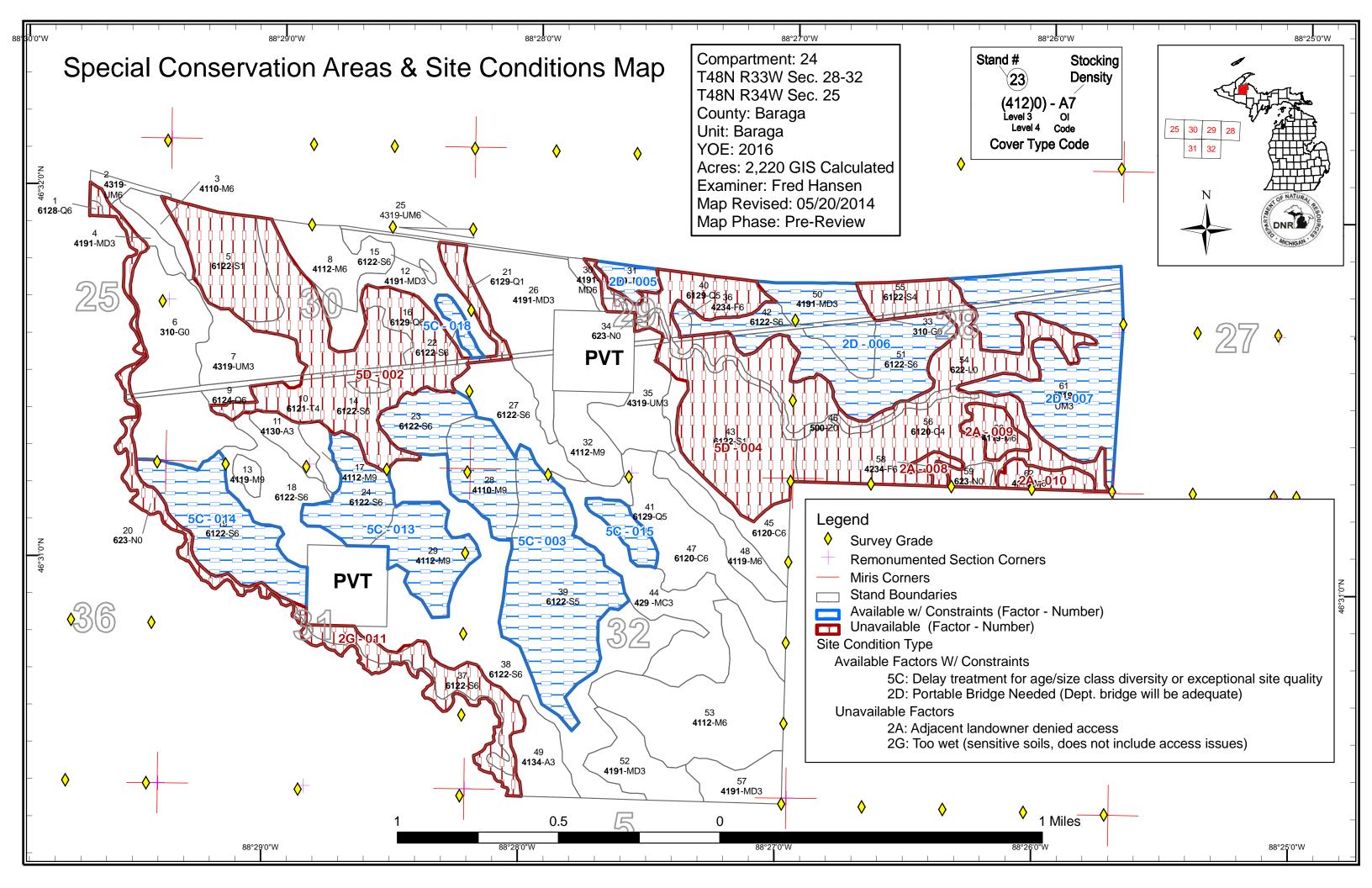
The following reports from the Inventory are attached: Total Acres by Cover Type and Age Class Cover Type by Harvest Method Proposed Treatments – No Limiting Factors Proposed Treatments – With Limiting Factors Stand Details (Forested and Nonforested) Dedicated and Proposed Special Conservation Areas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





	Level 3
	411 - Northern Hardwood
	413 - Aspen Types
	419 - Mixed Upland Deciduous
	423 - Other Upland Conifers
	429 - Mixed Upland Conifers
ads	431 - Upland Mixed Forest
	612 - Lowland Coniferous Forest
ads	Non-Forest Stands
	Level 3
Roads	310 - Herbaceous Openland
tion)	500 - Water
	622 - Lowland Shrub
	623 - Emergent Wetland



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

Baraga Mgt. Unit Fred Hansen : Examiner

## Compartment 024 Year of Entry 2016



Age	Class
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	/	6.0	0 <sup>7</sup> 0	10:12		10 <sup>-02</sup>	S. S.	0000	1010	40 <sup>1</sup>	99. 19	601.001	611.01,	200 Jr.	And A	,0 <sup>20</sup>
Aspen	0	0	38	0	0	0	0	0	0	0	0	0	0	0	38	
Cedar	0	0	0	0	0	0	0	0	0	0	0	0	179	0	179	
Herbaceous Openland	114	0	0	0	0	0	0	0	0	0	0	0	0	0	114	
Lowland Conifers	0	0	0	0	0	0	5	34	30	0	0	0	13	0	82	
Lowland Shrub	72	0	0	0	0	0	0	0	0	0	0	0	0	0	72	
Lowland Spruce/Fir	0	0	0	0	50	0	81	151	109	0	24	79	242	0	737	
Marsh	55	0	0	0	0	0	0	0	0	0	0	0	0	0	55	
Mixed Upland Deciduous	0	175	31	0	0	0	0	0	0	0	5	0	0	0	211	
Northern Hardwood	0	0	0	0	0	0	0	0	0	0	0	0	0	319	319	
Tamarack	0	0	0	0	0	0	0	0	108	0	0	0	0	0	108	
Upland Conifers	0	66	0	0	0	0	0	0	0	0	10	0	0	0	77	1
Upland Mixed Forest	122	33	34	0	0	0	6	6	0	0	0	0	0	0	201	
Upland Spruce/Fir	0	0	0	0	0	0	0	0	6	3	0	0	0	0	8	
Water	20	0	0	0	0	0	0	0	0	0	0	0	0	0	20	
Total	383	274	103	0	50	0	91	192	252	3	39	79	435	319	2220	



MICHIGAN	Baraga Mgt. Unit Year of Entry 2016								Compartment Total Compartment Acres:	
			Acre	s by T	reatme	ent Ty	ре			
	Commercial Harvest - 116	Tree Planting - 0	(	Other -	0					
	Habitat Cut - 0	Opening Maintena	ance - 0							
			Cov	ver Typ	oe by H	larves	st Meth	od		
			Central C	Co Children	Contraction of the second	Sternood	Chining Off	SQ LOG LOG		
	Lowland Coniferous	Forest	70 0	0	0	0	0	70		
	Mixed Upland Conife	ers	11 0	0	0	0	0	11		
	Northern Hardwood		0 13	0	0	0	0	13		
	Northern Hardwood Other Upland Conife	rs	0 13 3 0	0	0	0 0	0	13 3		
					-	-	-			

S t		Bara	ıga Mgt. Unit	Repo			ients Prescri ting Factor	ibed	Compartment: 024 Year of Entry 2016	DNR DR NATURA
a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
2	11024002-Cut	7.9	4319 - Mixed Upland Forest	High Density Pole	62		Harvest	Clearcut with Reserves	4319 - Mixed Upland Forest	Cmpt. Review Proposal
Preso Spec		•	down to 4.6 inches D	BH except v	hite pine	e, yellow b	rch and cedar.	Retention will be al	bout 3% and consist of	reserve
	ments:									
<u>Next</u> Steps	<u>s:</u>	or adequate	regeneration within 5	5 years of ha	rvest co	mpletion.				
Propo: Start [		15								
3	11024003-Cut	12.7 4	4110 - Sugar Maple Association	High Density Pole	59	81-110	Harvest	Single Tree Selection	4110 - Sugar Maple Association	Cmpt. Review Proposal
-										
Preso Spec			woods to 70-90 sqft rage BA of 80 sqft.						nere present. Oak shou	ld be released
<u>Spec</u>	s: on 3 side								nere present. Oak shou	Id be released
<u>Spec</u>	<u>s:</u> on 3 side <u>r</u> ments:								nere present. Oak shou	ld be released
Spec: Other Comr <u>Next</u> Steps Propos	<u>s:</u> on 3 sid <u>r</u> <u>ments:</u> <u>s:</u> <u>sed</u>	es to an ave							nere present. Oak shou	ld be released
Spec: Other Comr Next	<u>s:</u> on 3 sid <u>r</u> <u>ments:</u> <u>s:</u> <u>sed</u>	es to an ave							here present. Oak shou 4319 - Mixed Upland Forest	lld be released Cmpt. Review Proposal
Spec: Other Comr Next Steps Propo: Start I 25	s: on 3 sid <u>r</u> <u>ments:</u> <u>sed</u> <u>Date:</u> 10/01/20 <b>11024025-Cut</b> <u>cription</u> Harvest	15 10.7 all species o	4319 - Mixed Upland Forest	Follow all gu High Density Pole BH except v	77 vhite pine	e, yellow b	n "The Complete	Marker". Clearcut with Reserves	4319 - Mixed	Cmpt. Review Proposal
Spec: Other Comr Next Steps Propo Start I 25 Presc Spec: Other	<u>r</u> ments: <u>s:</u> <u>sed</u> <u>Date:</u> 10/01/20 <b>11024025-Cut</b> <u>cription</u> Harvest <u>s:</u> species.	15 10.7 all species o	4319 - Mixed Upland Forest down to 4.6 inches D	Follow all gu High Density Pole BH except v	77 vhite pine	e, yellow b	n "The Complete	Marker". Clearcut with Reserves	4319 - Mixed Upland Forest	Cmpt. Review Proposal
Spec: Other Comr Next Steps Propo Start I 25 25 Presc Spec: Other	<u>r</u> ments: <u>sed</u> <u>Date:</u> 10/01/20 <b>11024025-Cut</b> <u>cription</u> Harvest <u>s:</u> species. <u>r</u> <u>ments:</u> Check for	15 10.7 all species o Large tama	4319 - Mixed Upland Forest down to 4.6 inches D	Follow all gu High Density Pole BH except v will be leave	77 /hite pine tree ma	e, yellow b rked.	n "The Complete	Marker". Clearcut with Reserves	4319 - Mixed Upland Forest	Cmpt. Review Proposal

Total Treatment Acreage Proposed: 31.3

S t		Ва	ıraga Mgt. Unit	Report 4		eatment Site Con	ts Prescribed dition	d with	Compartment: 024 Year of Entry 2016	OF NATURAL OF
a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
31	11024031-Cut	11.0	429 - Mixed Upland Conifers	High Density Pole	107		Harvest	Clearcut with Reserves	429 - Mixed Upland Conifers	Cmpt. Review Proposal
<u>Preso</u> Spec		all specie	s down to 4.6 inches E	OBH except v	white pine	e, red pine	and cedar. Ret	tention will be > 3%	and consist of reserve	species.
<u>Othei</u> Comr	Wld: Re <u>ment:</u>	tention for	r gray jay will be achiev	ved from the	adjacen	t stand (40	)).			
<u>Next</u> Steps		or adequat	te regeneration within	5 years of ha	arvest co	mpletion.				
	<u>osed</u> <u>Date:</u> 10/01/20 ng Factor		: Portable Bridge Need	dad (Dapt b	ridao will	ho odogu	ato)			
	ng r actor	20	. Foltable blidge need	ueu (Depi. D	nuge wii	be auequ	ale)			
36	11024036-Cut	3.0	42340 - Upland Spruce/Fir	High Density Pole	97		Harvest	Clearcut	42340 - Upland Spruce/Fir	Cmpt. Reviev Proposal
Preso Spec		all species acreage.	s down to 4.6 inches E	OBH except v	white pine	e and ceda	ar if present. Re	etention will be < 3%	6 and come from adjace	nt stands due
<u>Other</u>	=									
<u>Vext</u> Steps		or adequat	te regeneration during	next invento	ory cycle.					
	<u>osed</u> <u>Date:</u> 10/01/20	)15								
_imiti	ng Factor	2D	: Portable Bridge Need	ded (Dept. b	ridge will	be adequ	ate)			
42	11024042-Cut	10.7	6122 - Black Spruce	High Density Pole	113		Harvest	Clearcut	6122 - Black Spruce	Cmpt. Reviev Proposal
Preso Spec		all specie	s down to 4.6 inches E	OBH except v	white pine	e and ceda	ar if present. Re	etention will be < 3%	6 and come from adjace	nt stands.
<u>Othei</u> Comr	<u>nent:</u>									
<u>Next</u> Steps		or adequat	te regeneration during	next invento	ory cycle.					
	<u>osed</u> <u>Date:</u> 10/01/20	)15								
imiti	ng Factor	2D	: Portable Bridge Need	ded (Dept. b	ridge will	be adequ	ate)			
51	11024051-Cut	59.6	6122 - Black Spruce	High Density Pole	135		Harvest	Clearcut	6122 - Black Spruce	Cmpt. Review Proposal
Preso Spec		all specie	s down to 4.6 inches E	OBH except v	white pine	e and ceda	ar if present. Re	etention will be < 3%	6 and come from adjace	nt standsto the
<u>Othei</u> Comi	<u>ment:</u>									
<u>Next</u> Steps		or adequat	te regeneration during	next invento	ory cycle.					
Propo Start	Date: 10/01/20	)15								

Compartment 024 Year of Entry 2016



#### Fred Hansen : Examiner

### Availability for Management

Total	Acres	Acres	C	omina	nt Site	e Cone	dition	S	
Acres	Available	Not Available		No	5D	5C	2G	2D	2A
37	37		Aspen	37					
179	92	87	Cedar	92	87				
81	18	64	Lowland Conifers	5	62	13	1		
734	552	183	Lowland Spruce/Fir	233	150	249	33	70	
210	210	0	Mixed Upland Deciduous	174	0			36	
318	291	27	Northern Hardwood	213	0	79			26
107	1	106	Tamarack	1	106				
76	76		Upland Conifers	66				10	
200	200	0	Upland Mixed Forest	78	0			121	
8	3	5	Upland Spruce/Fir					3	5
1,951	1,480	471	Total Forested Acres	899	406	340	34	240	32
	76%	24%	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.

002 <b>Not</b>	Available	5D: Unproductive Forest Land	200	2G: Too wet (sensitive		
				soils, does not include access issues)		
Comme	ents:					
003 <b>A</b> v	vailable	5C: Delay treatment for age/size class diversity or exceptional site quality	178			
Comme		exceptional site quality		20 other 1/2 in 2026		

		araga Mgt. Unit ansen : Examiner		Report 5 – Site Conditions	Compartment 024 Year of Entry 2016	DR WATCHER CHILDREN
004	Not Available	5D: Unproductive Forest Land	320	2G: Too wet (sensitive soils, does not include access issues)		
С	omments:					
005	Available	2D: Portable Bridge Needed (Dept. bridge will be adequate)	10			
C	omments:					
006	Available	2D: Portable Bridge Needed (Dept. bridge will be adequate)	113			
C	omments:					
007	Available	2D: Portable Bridge Needed (Dept. bridge will be adequate)	127			
C	omments:					
008	Not Available	2A: Adjacent landowner denied access	5			
С	omments:					
009	Not Available	2A: Adjacent landowner denied access	14			
C	omments:					

Report	5 –	Site	Conditions
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Compartment 024 ... **6 -** 4 ----



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Baraga Mgt. Unit

	Fred H	ansen : Examiner			Year of Entry 2016	Ha . Mic
10	Not Available	2A: Adjacent landowner denied access	13			
(	Comments:					
11	Not Available	2G: Too wet (sensitive soils, does not include access issues)	80	5D: Unproductive Forest Land		
C	Comments:					
13	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	77			
	Comments: Look at to treat 1/2	of the available lowlands in 202	6 and	the other 1/2 in 2036.		
14	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	67			
	<b>Comments:</b> ook at to treat in 2	046				

015	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	13
	omments: ok at to treat in 2	2026	
018	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	6
	mments: ention, Look at	to treat 1/2 of the available lowla	ds in 2026 and the other 1/2 in 2036.



#### 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 – EXISTING SPECIAL CONSERVATION AREA DETAILS**

\* This is a list of SCA's for this compartment along with a 1/4 mile buffer surrounding the compartment. Refer to the Special Conservation Area Map for locations of the below listed Conservation Areas.

Conservation Type Description Area	ERA = Ecological Reference Area HCVA = High Conservation Value Area SCA = Special Conservation Area
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S t	Baraga Mgt. Unit			Report 8 –	Forested Sta	inds Compartment: 024 Year of Entry: 2016	OF NATURAL PERSONRE
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:	ANCHIGAN
1	6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	1.1	81			
2	4319 - Mixed Upland Forest	High Density Pole	5.6	62			
3	4110 - Sugar Maple Association	High Density Pole	12.7	Uneven Age	81-110		
4	4191 - Mixed Upland Deciduous with Conifer	High Density Sapling	8.6	20			
5	6122 - Black Spruce	Low Density Sapling	49.8	42			
7	4319 - Mixed Upland Forest	High Density Sapling	34.4	20		cut 1993	
8	4112 - Maple, Beech, Cherry Association	High Density Pole	34.3	Uneven Age	81-110	BB Block selection cut in 2007-8	
9	6124 - Lowland Spruce- Fir	High Density Pole	4.6	67			
10	6121 - Tamarack	Low Density Pole	107.9	85			
11	4130 - Aspen	High Density Sapling	12.6	20			
12	4191 - Mixed Upland Deciduous with Conifer	High Density Sapling	43.7	12		Murphy Birch cc in 2001	
13	4119 - Mixed Northern Hardwoods	High Density Log	5.2	Uneven Age			
14	6122 - Black Spruce	High Density Pole	2.5	81		island of spruce in large bog	
15	6122 - Black Spruce	High Density Pole	1.3	135			
16	6129 - Mixed Coniferous Lowland Forest	High Density Pole	23.6	77		tag alder mixed with swamp conifer	
17	4112 - Maple, Beech, Cherry Association	High Density Log	8.7	Uneven Age			
18	6122 - Black Spruce	High Density Pole	43.2	68	C	edar pole on south side, interspersed with patches	of tag alder
19	6122 - Black Spruce	High Density Pole	68.3	112			

S t	Baraga Mgt. Unit			Report 8 –	Forested Stands	S Compartment: 024 Year of Entry: 2016
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
21	6129 - Mixed Coniferous Lowland Forest	Low Density Sapling	10.8	77		
22	6122 - Black Spruce	High Density Pole	6.0	108		
23	6122 - Black Spruce	High Density Pole	26.4	81		
24	6122 - Black Spruce	High Density Pole	36.2	135		
25	4319 - Mixed Upland Forest	High Density Pole	5.6	77		
26	4191 - Mixed Upland Deciduous with Conifer	High Density Sapling	64.7	12		murphy birch cc in 2001
27	6122 - Black Spruce	High Density Pole	37.9	67		
28	4110 - Sugar Maple Association	High Density Log	38.1	Uneven Age	141-170	cut with adj stands
29	4112 - Maple, Beech, Cherry Association	High Density Log	40.8	Uneven Age	111-140	cut with adj stands
30	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	4.8	107		RMZ
31	429 - Mixed Upland Conifers	High Density Pole	10.2	107		bridge needed
32	4112 - Maple, Beech, Cherry Association	High Density Log	28.1	Uneven Age	81-110	Murphy hdwd selection cut in 2000
35	4319 - Mixed Upland Forest	High Density Sapling	32.8	12		
36	42340 - Upland Spruce/Fir	High Density Pole	3.0	97		rock ridge
37	6122 - Black Spruce	High Density Pole	32.1	135		
38	6122 - Black Spruce	High Density Pole	151.5	77		
39	6122 - Black Spruce	Medium Density Pole	113.2	135		
40	6129 - Mixed Coniferous Lowland Forest	Medium Density Pole	28.7	89		

S t	Baraga Mgt. Unit			Report 8 –	Forested Stands	Compartment: 024 Year of Entry: 2016
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
41	6129 - Mixed Coniferous Lowland Forest	Medium Density Pole	13.1	147		wet
42	6122 - Black Spruce	High Density Pole	10.7	113		wet
43	6122 - Black Spruce	Low Density Sapling	80.0	85		
44	429 - Mixed Upland Conifers	High Density Sapling	66.3	12		
45	6120 - Lowland Cedar	High Density Pole	30.5	147		wet
47	6120 - Lowland Cedar	High Density Pole	65.8	147		wet
48	4119 - Mixed Northern Hardwoods	High Density Pole	25.3	Uneven Age	81-110	murphy Hdwd selection cut in 2002
49	4134 - Aspen, Spruce/Fir	High Density Sapling	24.9	22		ccut in 1991
50	4191 - Mixed Upland Deciduous with Conifer	High Density Sapling	36.0	12		cut in 2001
51	6122 - Black Spruce	High Density Pole	59.6	135		edge trees along river are dying.
52	4191 - Mixed Upland Deciduous with Conifer	High Density Sapling	30.9	12		cut in 2001
53	4112 - Maple, Beech, Cherry Association	High Density Pole	98.7	Uneven Age	81-110	murphy hdwd selection cut in 2001
55	6122 - Black Spruce	Low Density Pole	18.2	104		
56	6120 - Lowland Cedar	Low Density Pole	83.1	132		
57	4191 - Mixed Upland Deciduous with Conifer	High Density Sapling	22.3	22		c-cut in 1991
58	42340 - Upland Spruce/Fir	High Density Pole	5.5	82		blocked by river and PVT land
60	4119 - Mixed Northern Hardwoods	High Density Pole	13.8	Uneven Age		ba=100 blocked by river and PVT land
61	4319 - Mixed Upland Forest	High Density Sapling	122.1	9		c-cut in 2004

S t	Baraga Mgt. Unit			Report 8 –	Forested Stands	Compartment: 024 Year of Entry: 2016		
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:	MICHIGAN .	
62	4119 - Mixed Northern Hardwoods	High Density Pole	13.2	Uneven Age		blocked by river and pvt land		

Baraga Mgt. Unit

## Report 9 – Nonforested Stands

Compartment: 024 Year of Entry: 2016



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:	
6	3102 - Grass	88.6	Natural Regen	Lowland Conifers		
20	6239 - Mixed Emergent Wetland	45.6	No	Unspecified		
33	3102 - Grass	25.7	No	Unspecified		
34	623 - Emergent Wetland	3.6	Unspecified	Unspecified		
46	50 - Water	19.7	No	Unspecified		
54	6220 - Alder/willow	71.9	No	Unspecified		
59	6239 - Mixed Emergent Wetland	6.2	No	Unspecified		