

Report 1 – Compartment Review Presentation

Baraga Forest Management Unit

Compartment 49 Entry Year 2015

Acreage: 1,475
County Houghton

Management Area: Central Houghton

Revision Date: 07/17/2013

Stand Examiner: Jason Mittlestat

Legal Description:

Houghton County, Laird Township. T51N, R36W, Sections 9, 15 and 16

Identified Planning Goals:

Central Houghton (4.6)

To maintain a healthy; sustainable forest with special consideration to wildlife habitat, fisheries habitat, and recreational needs.

Soil and topography:

The terrain is level to rolling. Soils are Munising loamy fine sand, Kalkaska sand, Yalmer sand, Au Gres sand, Roscommon sand, Halfaday sands, Laminga fine sand, Gay muck, Lupton, Cathro muck and Dawson Loxley peats.

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

The compartment adjoins other state forest lands, one large industrial land owner and one small owner. The land use is predominantly for timber.

Unique, Natural Features:

None Identified.

Archeological, Historical, and Cultural Features:

The Otter Siding Road was a logging railroad grade.

Special Management Designations or Considerations:

None Identified.

Watershed and Fisheries Considerations:

The West Branch of the Otter River is a high quality trout stream. Recent stream improvement and bank stabilization projects have been accomplished downstream of the Otter Siding Road in the adjacent compartment to the south. Best Management pratices should be observed when harvesting.

Wildlife Habitat Considerations:

Compartment 49 is found in the Central Houghton Management Area on Dissected Moraines in Central Houghton County. The major forest cover types include Northern Hardwoods, Aspen, and Mixed Lowland Conifer. Some of the most significant wildlife management issues in the management area are: mesic conifers; mature forest; habitat fragmentation; course woody debris; and retention or development of large living and dead standing trees (for cavities). This management area represents almost 15% of the WUP State Forest hemlock resource and is one of the few MAs where the species reliably regenerates and recruits.

The following have been identified, as featured species for the Central Houghton Management Area: Blackburnian Warbler, Pileated Woodpecker, and Northern Goshawk.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of coarse-textured glacial till, thinning to the northwest. The glacial drift thickness varies between 10 and 50 feet. The Precambrian Jacobsville Sandstone and the Portage Lake Volcanics subcrop below the glacial drift. The Jacobsville was previously used as a building stone and the Volcanics may have copper potential. The closest gravel pit is located six miles to the north, but potential should be good in areas of drift. Abandoned copper mines, containing some silver, are located to the north and to the southwest. Section 8 was previously leased for copper exploration. There is no economic oil and gas production in the UP.

Vehicle Access:

Access is from the Otter Siding Road with runs the entire length of the compartment connecting the Pike Lake Road to M-05/28/2013 9:46:38 AM - Page 1 of 2 38. There are also several forest roads in varying conditions throughout the compartment.

Survey Needs:

None needed.

Recreational Facilities and Opportunities:

The hunting opportunities in this compartment are excellent for big and small game hunting alike.

Fire Protection:

This is not a fire prone area.

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

Brad Carlson: Examiner



						Age (Class									
		000	/a ₇₉	Park /	No. No.	pro .	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	\$ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	'a 's	St. St.	888	00,00	72,73	,	S /	, pro
Aspen	10	100	0	0	0	0	134	0	0	0	0	0	0	0	244	
Bog	9	0	0	0	0	0	0	0	0	0	0	0	0	0	9	
Cedar	0	0	0	0	0	0	0	0	34	0	0	0	0	0	34	
Hemlock	0	0	0	0	0	0	0	0	0	0	14	0	0	15	29	
Herbaceous Openland	7	0	0	0	0	0	0	0	0	0	0	0	0	0	7	
Lowland Conifers	0	0	0	0	0	31	0	90	47	0	5	0	0	0	173	
Lowland Deciduous	0	0	0	0	0	0	0	3	0	0	0	0	0	0	3	
Lowland Mixed Forest	0	0	0	0	0	0	52	0	0	0	0	0	0	0	52	
Lowland Spruce/Fir	0	0	0	0	0	0	0	6	43	0	17	0	0	0	66	
Marsh	57	0	0	0	0	0	0	0	0	0	0	0	0	0	57	1
Northern Hardwood	0	0	0	0	0	0	0	10	0	0	0	0	0	721	731	
Tamarack	0	0	0	0	0	0	0	14	0	0	0	0	0	0	14	1
Upland Conifers	0	0	0	0	0	0	0	0	0	0	4	0	0	0	4	
Upland Mixed Forest	0	0	0	0	6	0	0	0	0	0	0	0	0	15	21	
Upland Spruce/Fir	0	0	0	0	3	0	4	11	0	0	0	0	0	0	17	
Water	14	0	0	0	0	0	0	0	0	0	0	0	0	0	14	
Total	97	100	0	0	9	31	190	134	124	0	41	0	0	751	1476]



Report 3 – Proposed Treatment Summaries

Baraga Mgt. Unit Year of Entry 2015

Compartment 049
Total Compartment Acres: 1476

Acres by Treatment Type

Commercial Harvest - 324

Tree Planting - 0

Other - 0

Habitat Cut - 0

Opening Maintenance - 0

			Cov	er Ty	pe by H	Harves	st Meth	nod	
		/		Section of	, S. J. S.	S. S	China Ora		R. S.
				\angle	/ "		/ o ^s		
Aspen Types		134	0	0	0	0	0	134	
Northern Hardwood		0	157	0	0	0	0	157	
Other Upland Conifers		17	0	0	0	0	0	17	
Upland Mixed Forest		0	15	0	0	0	0	15	
	Total	151	172	0	0	0	0	324	

S t a			Bara	ga Mgt. Unit	Repo			nents Prescrit iting Factor	oed	Compartment: 049 Year of Entry 2015	DNR NATURAL DIRECTION OF MATURAL DIRECTION OF MATURA DIRECTION OF MATURAL DIRECTION OF MATURA D
n d		tment ame	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
1	11049	001-Cut	17.7	4115 - Y.Birch, Hemlock NH	High Density Log	91 I	81-110	Harvest	Single Tree Selection	4115 - Y.Birch, Hemlock NH	Cmpt. Review Proposal
Preso Spec		sides to a		BA of 60 sqft. Where						cedar. Oak should be r BA. Follow all guideline	
Other Com	r_ ments:	Retention	for this sta	nd will be greater tha	an 3% and w	ill consi	st of tree s	species of the dom	ninant cover type	and reserve tree specie	S.
Next Steps	<u>s:</u>										
Propo Start [10/01/201	4								
5	11049	005-Cut	71.5	4112 - Maple, Beech, Cherry Association	High Density Log	91 I	81-110	Harvest	Single Tree Selection	4112 - Maple, Beech, Cherry Association	Cmpt. Review Proposal
Preso Spec		should be	released o	•	age BA of 60					ine and cedar where proto less than 100 sqft of	
Other Com	r_ ments:	Retention	for this sta	nd will be greater tha	an 3% and w	vill consi	st of tree s	species of the dom	ninant cover type	and reserve tree specie	S.
Next Steps	<u>3:</u>										
Propo Start [10/01/201	4								
11	11049	011-Cut	15.2	4319 - Mixed Upland Forest	High Density Pole	81	111-140	Harvest	Single Tree Selection	4119 - Mixed Northern Hardwoods	Cmpt. Review Proposal
Preso Spec	•	sides to a		BA of 60 sqft. Where						d cedar. Oak should be BA. Follow all guideline	
Other Comi	r ments:	Retention	for this sta	nd will be greater tha	an 3% and w	ill consi	st of tree s	species of the dom	ninant cover type	and reserve tree specie	S.

<u>Next</u>

Steps:

Proposed

10/01/2014 Start Date:

11049016-Cut 3.7 42340 - Upland High 62 Harvest Clearcut 42340 - Upland Cmpt. Review Spruce/Fir Density Spruce/Fir Proposal Pole

Prescription Harvest all species down to 2 inches DBH except white pine, black cherry or hemlock if present.

Specs: <u>Other</u>

Retention will be greater than 3% and will include some large diameter aspen in clumps. If foundations are found buffer one tree length or more

Comments: to get the retention to equal 3% or greater.

<u>Next</u> Steps: Check for adequate regeneration within 5 years of harvest completion.

Proposed

Start Date: 10/01/2014

Report 4 -- Treatments Prescribed with No Limiting Factor

Compartment: 049 Year of Entry 2015

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a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
22	11049022-Cut	27.9	4134 - Aspen, Spruce/Fir	High Density Pole	62		Harvest	Clearcut with Reserves	4134 - Aspen, Spruce/Fir	Cmpt. Review Proposal

<u>Prescription</u> Harvest all species down to 4.6 inches DBH except black cherry, hemlock and white pine. Also reserve red oak and cedar.

Specs:

Other Retention for this stand will be greater than 3% and will consist of reserve tree species. Also, retain some large diameter aspen in clumps. This

Comments: will most likely be encompassed in the riparian buffer.

Next

Check for adequate regeneration within 5 years of harvest completion.

Steps:

Proposed

Start Date: 10/01/2014

11049029-Cut 72.3 4136 - Aspen, High 65 Harvest Clearcut with 4136 - Aspen, Cmpt. Review 29 Mixed Conifer Density Reserves Mixed Conifer Proposal Pole

<u>Prescription</u> Harvest all species down to 4.6 inches DBH except hemlock, black cherry, yellow birch,cedar and white pine. Also reserve red oak if present. Specs:

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Other Retention for this stand will be greater than 3% and will consist of reserve tree species. Also, retain some large diameter aspen in clumps. This Comments: will most likely be encompassed in the riparian buffer. Check for adequate regeneration within 5 years of harvest completion.

Next

Steps:

<u>Proposed</u>

Start Date: 10/01/2014

12.7 Cmpt. Review 31 11049031-Cut 4112 - Maple, High 93 111-140 Harvest Single Tree 4112 - Maple, Beech, Cherry Selection Beech, Cherry Density Proposal Association Pole Association

<u>Prescription</u> Selectively thin hardwoods to 70-90 sqft of BA. Do not harvest large diameter aspen, oak, hemlock, white pine and cedar. Favor black cherry. <u>Specs:</u> Oak should be released on 3 sides to an average BA of 60 sqft. Where 30 sqft or more of hemlock occurs thin to less than 100 sqft of BA.

Follow all guidelines set forth in "The Complete Marker".

Other Retention for this stand will be greater than 3% and will consist of tree species of the dominant cover type and reserve tree species.

Comments:

Next Steps:

Proposed

Start Date: 10/01/2014

33 11049033-Cut 5.8 4119 - Mixed High 64 81-110 Harvest Single Tree 4119 - Mixed Cmpt. Review Northern Hardwoods Density Selection Northern Hardwoods Proposal

<u>Prescription</u> Selectively thin hardwoods to 50-70 sqft of BA expecting to re-enter this stand on a 30 year rotation. Do not harvest oak, aspen, hemlock, white <u>Specs:</u> pine and cedar. Follow all guidelines set forth in "The Complete Marker".

Other Retention for this stand will be greater than 3% and will consist of tree species of the dominant cover type and reserve tree species.

Comments:

Next Steps:

Proposed

Start Date: 10/01/2014

Report 4 -- Treatments Prescribed with No Limiting Eactor

Compartment: 049 Year of Entry 2015

DEPARTMEN	DNR MICHIGAN
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S t a					with	No Limi	ting Factor		rear of Entry 2015	DNR DIR
n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
36	11049036-Cut	33.7	4136 - Aspen, Mixed Conifer	High Density Pole	62		Harvest	Clearcut with Reserves	4136 - Aspen, Mixed Conifer	Cmpt. Review Proposal
Preso Spec		•	down to 4.6 inches D	BH except	hemlock	, yellow bir	ch, black cherry	and white pine. Als	o reserve red oak and	cedar if
Other Com			and will be greater that may extent south into				•	•	•	n clumps.
<u>Next</u> Steps		or adequate	e regeneration within 5	years of ha	arvest co	mpletion.				
Propo Start [14								
39	11049039-Cut	49.6	4112 - Maple, Beech, Cherry Association	High Density Pole	83	111-140	Harvest	Single Tree Selection	4112 - Maple, Beech, Cherry Association	Cmpt. Review Proposal
Preso Spec	s: Oak sho	uld be relea	dwoods to 70-90 sqft of ased on 3 sides to an set forth in "The Cor	average BA	of 60 s		•			•

Retention for this stand will be greater than 3% and will consist of tree species of the dominant cover type and reserve tree species. <u>Other</u>

Comments:

Next Steps:

Proposed

10/01/2014 Start Date:

2.7 42340 - Upland Medium 42 Clearcut with 42340 - Upland Cmpt. Review 42 11049042-Cut Harvest Spruce/Fir Density Reserves Spruce/Fir Proposal Pole

Prescription Harvest all species down to 4.6 inches DBH except black cherry, paper birch and white pine. Also reserve red oak, hemlock and cedar if

present. Specs:

Other Retention for this stand will be greater than 3% and will consist of reserve tree species.

The treament area may extent south into adjacent compartment to include a small area that may exist there, possibly 1-2 acres Comments:

Next Check for adequate regeneration within 5 years of harvest completion.

Steps:

Proposed

10/01/2014 Start Date:

42340 - Upland 44 11049044-Cut 11.0 High 76 Harvest Clearcut with 4110 - Sugar Maple Cmpt. Review Spruce/Fir Density Reserves Association Proposal Pole

Prescription Harvest all species down to 4.6 inches DBH except hemlock black cherry, tamarack and white pine. Also reserve red oak and cedar if present.

Specs:

Retention for this stand will be greater than 3% and will consist of reserve tree species. Also, retain some large diameter aspen in clumps. This Other_ Comments:

will most likely be encompassed in the riparian buffer.

The treament area may extent south into adjacent compartment to include a small area that may exist there, possibly 1-2 acres.

<u>Next</u>

Check for adequate regeneration within 5 years of harvest completion.

Steps:

Proposed

10/01/2014 Start Date:

Total Treatment

323.7 Acreage Proposed:

Baraga Mgt. Unit Report 5 -- Treatments Prescribed with Compartment: 049 a Limiting Factor s Year of Entry 2015 t **Treatment** Acres CoverType Size Stand ВА **Treatment Treatment Cover Type Approval** n Method Objective Status Name Density Age Range Type #Type! **Prescription** Specs: Other Comment: **Next** Steps: Proposed

Total Treatment
Acreage Proposed:

#Type!

Start Date: # Limiting Factor

0

Report 6 - Out of YOE - Treatments **Prescribed with No Limiting Factor**

Year of Entry: 2015

Cover Type Objective Treatment **Treatment** Acres CoverType Stand ВА **Treatment Approval** Status Method Name Density Range Туре Age

Prescription

Specs:

<u>Other</u>

Comments:

Next Steps:

Proposed Start Date: #Type!

Total Treatment

Acreage Proposed:

0

Baraga Mgt. Unit

Jason Mittlestat : Examiner

Compartment 049 Year of Entry 2015

Availa	ability for I	Management							
Total	Acres	Acres	[Ominai	nt Site	e Con	dition	s	
Acres	Available	Not Available		No	5D	5C	3J	ЗА	2G
244	244		Aspen	244					
34		34	Cedar						34
29		29	Hemlock					29	
173	5	168	Lowland Conifers			5	15		152
3	3		Lowland Deciduous	3					
52		52	Lowland Mixed Forest				52		
66	5	61	Lowland Spruce/Fir	5			17		44
730	730		Northern Hardwood	720		10			
14		14	Tamarack		14				
4	4		Upland Conifers	4					
21	21		Upland Mixed Forest	21					
17	17		Upland Spruce/Fir	17					
1,388	1,031	357	Total Forested Acres	1,016	14	15	85	29	230
	74%	26%	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.

003 Not		3J: Water quality / BMPs (stream, river, or lake)	15	2G: Too wet (sensitive soils, does not include		
Comme	ents:			access issues)		
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					
004 Not 2	Available	3J: Water quality / BMPs (stream, river, or lake)	17	2G: Too wet (sensitive soils, does not include access issues)		
Comme	ents:					

Baraga Mgt. Unit

Jason Mittlestat : Examiner

Compartment 049 Year of Entry 2015

005	Not Available	5D: Unproductive Forest Land	14	2G: Too wet (sensitive soils, does not include access issues)	
С	omments:				
006	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	5		
	omments: hin through this st	and in 2025 with adjacent hdwo	ls stand.		
007	Not Available	2G: Too wet (sensitive soils, does not include access issues)	89		
С	omments:				
010	Not Available	2G: Too wet (sensitive soils, does not include access issues)	38		
С	omments:				
011	Not Available	2G: Too wet (sensitive soils, does not include access issues)	27		
С	omments:				
012	Not Available	2G: Too wet (sensitive soils, does not include access issues)	34		
С	omments:				

Baraga Mgt. Unit Compartment 049 Year of Entry 2015 Jason Mittlestat: Examiner 013 **Not Available** 2G: Too wet (sensitive 54 soils, does not include access issues) Comments: 014 2G: Too wet (sensitive 2 Not Available soils, does not include access issues) Comments: water 2G: Too wet (sensitive 9 015 Not Available soils, does not include access issues) Comments: lake 15 016 2G: Too wet (sensitive 17 Not Available soils, does not include access issues) Comments: non forested beaver flooding. 017 **Not Available** 3A: Potential old growth / 14 biodiversity Comments:

Solid hemlock stand. We do not mangage stand like this as directed by our WLD staff. 2G: Too wet (sensitive 3J: Water quality / BMPs 018 **Not Available** 52 soils, does not include (stream, river, or lake) access issues) Comments:

Baraga Mgt. Unit

Jason Mittlestat : Examiner

Compartment 049 Year of Entry 2015

019	Not Available	3A: Potential old growth / biodiversity	15			
	omments: olid hemlock stand	I. We do not manage stand lik	e this a	as directed by our WLD staf	f.	
020	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	10	2E: Road needed		
Co	omments:					
021	Not Available	2G: Too wet (sensitive soils, does not include access issues)	5	5C: Delay treatment for age/size class diversity or exceptional site quality		
Co	omments:					
022	Not Available	2G: Too wet (sensitive soils, does not include access issues)	3	5D: Unproductive Forest Land		
Co	omments:					
023	Not Available	2G: Too wet (sensitive soils, does not include access issues)	21			
	omments: ld beaver flooding.					
024	Not Available	2G: Too wet (sensitive soils, does not include access issues)	2			
Co	omments:					

Baraga Mgt. Unit

Jason Mittlestat : Examiner

Compartment 049 Year of Entry 2015

025	Not Available	2G: Too wet (sensitive soils, does not include access issues)	2
	Comments: vater.		
026	Not Available	3E: Easement / lease, non- military (e.g Consumers Power red pine, etc)	7
	comments: owerline.		
033	Not Available	2G: Too wet (sensitive soils, does not include access issues)	6
C	Comments:		

Compartment: 049 Year of Entry: 2015



Report 8 - 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
Pike Lake Flooding WLD Comments	Habitat Areas or Corridors	Habitat Corridor	SCA	

Compartment: 049 Year of Entry 2015



Report 9 - DEDICATED CONSERVATION AREA DETAILS

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

Conservation Area	Туре	Description	HCVA = High Conservation Value Area SCA = Special Conservation Area		
SCA	Cold Water Stream	stocked trout populations and those of other colo year to year. Coldwater streams in Michigan typi	yed oxygen conditions that allow naturally-reproduced or dwater fish species (e.g., slimy sculpin) to persist from ically provide these conditions due to substantial ys. Such streams are established by Director's action and er 210.		

S		a Mgt. Unit	Mgt. Unit		- Forested	Stands Compartment: 049 Year of Entry: 2015
t a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	4115 - Y.Birch, Hemlock NH	High Density Log	25.4	Uneven Age	81-110	Selection harvested in 1995 with "Otter Aspen" (11-003-95-01). South 1/3 of stand in not ready due to high hemlock residual BA and should be excluded from treatment area, also some areas along clearcut edge are not ready due to aspen removal and should also be excluded from the treatment area.
2	6122 - Black Spruce	High Density Pole	3.9	86		
4	4319 - Mixed Upland Forest	High Density Sapling	6.2	41	1-50	West perimeter of stand is plantation White Spruce.
5	4112 - Maple, Beech, Cherry Association	High Density Log	71.5	Uneven Age	81-110	Selection harvested in 1995 with "Otter Siding Hardwoods" (11-009-95-01). It is ready for another treatment.
6	4112 - Maple, Beech, Cherry Association	High Density Log	4.0	Uneven Age	81-110	Select harvested in 2005 with "Pits Hardwoods" (11-014-05-01). Harvest again next rotation in 2025.
7	6129 - Mixed Coniferous Lowland Forest	Low Density Sapling	3.2	56		
8	4112 - Maple, Beech, Cherry Association	High Density Log	2.9	Uneven Age	51-80	Selection harvested last rotation with "Pits Hdwds" (11-014-05-01). Stand should be ready for another treatment in 2025.
9	4130 - Aspen	High Density Sapling	35.5	16		Clearcut in 1997 with "Otter Siding Aspen" (11-003-95-01).
10	6122 - Black Spruce	High Density Pole	38.4	81		Stand has very wet ground.
11	4319 - Mixed Upland Forest	High Density Pole	15.2	Uneven Age	111-140	Select harvest with adjacent stand to the west. Acreage may be reduce due to thick hemlock edge being left out of the treatment area.
12	6128 - Lowland Coniferous, Mixed Deciduous	Low Density Pole	26.7	81		Stand is a growing in treed bog.
14	4119 - Mixed Northern Hardwoods	High Density Pole	10.0	70	111-140	Even aged M6, No record of any management by the state. Possible pasture origin. Factor limit for "Other Departmental procedure" and select harvest next rotation with "Pits Hardwoods".
15	4112 - Maple, Beech, Cherry Association	High Density Log	21.1	Uneven Age	51-80	Select harvested in 1995 with "Otter Siding Aspen" (11-003-95- 01). Stand had aspen removed and Basal area has not recovered enough for another entry.
16	42340 - Upland Spruce/Fir	High Density Pole	3.7	62		
17	4130 - Aspen	High Density Sapling	9.2	15		Clearcut in 1997 with "Popple Dropple" (11-006-95-01).

S t	Baraga	Baraga Mgt. Unit			- Forested	d Stands Compartment: 049 Year of Entry: 2015
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
18	4130 - Aspen	High Density Sapling	50.7	15		Clearcut in 1997 with "Popple Dropple" (11-006-95-01).
19	6120 - Lowland Cedar	High Density Pole	33.5	83	51-80	Wet ground, transitions into treed bog to the east.
20	6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	5.0	84		Stand has some operable ground, look at next rotation to do a species removal and set up with adjacent hardwood stands (Pits Hardwoods).
21	6122 - Black Spruce	Low Density Sapling	1.0	84		
22	4134 - Aspen, Spruce/Fir	High Density Pole	27.9	62		Aspen is of poor quality. Spruce budworm is present in the stand.
23	4112 - Maple, Beech, Cherry Association	High Density Log	83.3	Uneven Age	81-110	Selection harvested in 2005 with "Pits Hardwoods" (11-014-05-01). Treat again in 2025.
24	6139 - Mixed Lowland Forest	Low Density Pole	52.3	62		
27	42350 - Upland Hemlock	High Density Log	14.8	Uneven Age	141-170	Excluded from "Pine Marten Hardwoods" last rotation because it contained a significant BA of hemlock in both the overstory and understory.
29	4136 - Aspen, Mixed Conifer	High Density Pole	72.3	65		Some large diameter aspen are present but in poor shape.
30	4115 - Y.Birch, Hemlock NH	High Density Log	54.3	Uneven Age	51-80	Secection harvested in 2005 with "Pine Marten Hardwoods" (11-013-05-01). Treat again in 2025.
31	4112 - Maple, Beech, Cherry Association	High Density Pole	12.7	Uneven Age	111-140	Stand edges are very heavy to balsam and aspen.
32	6122 - Black Spruce	High Density Pole	17.2	101		Ripaian Cooridor to small pond.
33	4119 - Mixed Northern Hardwoods	High Density Pole	5.8	Uneven Age	81-110	Poor quality stand, bud worm is present in the spruce/fir. Selections harvest down to 50-70 BA and manage on a 30 year rotation.
35	6129 - Mixed Coniferous Lowland Forest	High Density Pole	15.4	85		Stand is a Riparian buffer to small pond.
36	4136 - Aspen, Mixed Conifer	High Density Pole	33.7	62		Health of stand is poor. Aspen is in poor shape and bud work is in the spruce/fir.
37	6129 - Mixed Coniferous Lowland Forest	Low Density Pole	53.6	72		

S t	Baraga	Baraga Mgt. Unit			- Forested	Stands Compartment: 049 Year of Entry: 2015
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
38	6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	5.2	101		
39	4112 - Maple, Beech, Cherry Association	High Density Pole	49.6	Uneven Age	111-140	Stand edges are heavy to aspen and balsam.
41	6121 - Tamarack	Medium Density	13.6	72		Treed bog in the process of converting.
42	42340 - Upland Spruce/Fir	Medium Density Pole	2.7	42		Stand has bud worm present. Should include with adjacent stands to salvage the spruce/fir. Could leave cherry if WLD desires.
43	4130 - Aspen	High Density Sapling	4.9	15		Cut in 1998 with "Lopi's Legacy"
44	42340 - Upland Spruce/Fir	High Density Pole	11.0	76		Stand is the transition from and M6 to an S6. Final Harvest and reserve white pine, cedar and hemlock.
46	429 - Mixed Upland Conifers	High Density Log	4.5	102	111-140	Stand was excluded from adjacent Hdwds sale last rotation, but should be select harvested next rotation to open up some of the White Pine and encourage regeneration.
47	6122 - Black Spruce	High Density Pole	5.8	72		Wet ground and small acreage. A good stand to leave for diversity.
48	6117 - Lowland Deciduous, Mixed Coniferous	High Density Pole	3.2	74	51-80	Wet Ground.
49	4119 - Mixed Northern Hardwoods	High Density Log	339.1	Uneven Age	81-110	Selection harvested of from 2007-2012 with two different sales. The north part was "Salt Block Hdwds" (11-015-05-01) and the south part was "Redd Finn Hdwds" (11-016-05-01). Stand will be ready for another treatment in 2025.
51	4112 - Maple, Beech, Cherry Association	High Density Log	40.4	Uneven Age	81-110	Selection harvested last rotation with "Salt Block Hdwds" (11-015-05-01). Stand will be ready for another treatment in 2025.
52	6129 - Mixed Coniferous Lowland Forest	High Density Pole	36.4	72		Wet ground, trees are stunted.
53	4130 - Aspen	High Density Sapling	9.8	3		Clear cut in 2010 with "Redd Finn Hdwds" (11-016-05-01).
55	6129 - Mixed Coniferous Lowland Forest	Medium Density Pole	27.3	55		
57	4115 - Y.Birch, Hemlock NH	High Density Log	10.7	Uneven Age	81-110	Selection harvested in 2008 with "Redd Finn Hdwds" (11-016-05-01). Stand should be ready for another treatment in 2025.
58	42350 - Upland Hemlock	High Density Log	13.8	102	171-200	Leave for diversity, Stand is unique.

Report 11 - Nonforested Stands

Compartment: 049 Year of Entry: 2015



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
3	6233 - Wet Meadow	2.2	No	Unspecified	
13	3102 - Grass	6.8	No	Unspecified	Powerline ROW.
25	6233 - Wet Meadow	20.7	No	Unspecified	Old beaver flooding.
26	50 - Water	1.6	No	Unspecified	
28	50 - Water	2.2	No	Unspecified	
34	50 - Water	1.5	No	Unspecified	
40	6233 - Wet Meadow	2.1	No	Unspecified	
45	50 - Water	8.5	No	Unspecified	Lake Fifteen.
50	6233 - Wet Meadow	15.7	No	Unspecified	
54	6230 - Cattail	16.8	No	Unspecified	Old beaver flooding.
56	6225 - Bog	9.4	No	Unspecified	





