

Revision Date: 8/12/2012

Stand Examiner: Josh Wall

Legal Description: T48N R17W Sections 26,33-35

RMU (if applicable): This compartment is located within the Pictured rocks Buffer Management Area.

Management Goals: Provide for the protection, integrated management, and responsible use of a healthy, productive, forest and mineral resource base for the social, recreational, environmental, and economic benefit of the people of the State of Michigan

Soil and Topography: The hardwoods timber types in this compartment are growing on Saugatuck sand, Ogemaw sandy loam or Munising loam. The conifer timber types are growing on Carbondale peat. The terrain ranges greatly from very steep hills to rolling areas to the flats in the conifer types.

Ownership Patterns, Development, and Land Use in and Around the Compartment: This compartment has broken ownership of private and commercial private lands. The entire compartment is within the Pictured Rocks National Lake Shore Boundary.

Unique, Natural Features (include only non-site specific and non-sensitive information): Currently under review by Michigan Natural Features inventory.

Archeological, Historical, and Cultural Features (include only non-site specific and non-sensitive information): This area was logged at the turn of the century like many of the areas in the Shingleton Management Unit. There are traces of old grades and winter roads.

Special Management Designations or Considerations: The compartment is located within the dedicated Pictured Rocks National Lakeshore Buffer Zone.

Watershed and Fisheries Considerations: Fisheries Values Moderate-to-Good. This compartment borders Spray Creek in the Northeastern portion. Spray Creek is a coldwater stream which contains native brook trout in certain reaches. Angling pressure is minimal with poor access through the Pictured Rocks National Lakeshore. No treatments are proposed near Spray Creek, so Fisheries Division has no concerns at this time.

Wildlife Habitat Considerations: This compartment is located in the Grand Marias Sandy End Moraine Outwash sub-subsection. The average growing season is approximately 120 days. The extreme winter temperature generally reaches approximately -35° F. Snowfall in this compartment averages 200 inches or more annually. The compartment falls within the Pictured Rocks Buffer Management Area which highlights the following Featured Species: American Marten, blackburnian warbler, northern goshawk and pileated woodpecker. General Land Office (GLO) Surveyor notes show a fairly even distribution of sugar maple, beech, hemlock, yellow birch and balsam fir in the uplands. Spotted maple (presumed to be striped maple), red maple, cedar, and spruce were also present in lesser amounts. Lowlands were dominated by cedar, but also contained hemlock, black ash, beech, tamarack, and balsam fir. Beaver ponding and wind throw were

likely the major forms of natural disturbance. Current upland forests appear to be much less diverse than those recorded during the first survey. Sugar maple dominates, while beech, hemlock, yellow birch, and balsam fir probably occur at lower densities. Lowland conifer forests appear to be similar in species composition to those found in the 1850s. Wildlife habitat objectives include maintaining closed canopy conifer forests, protecting the Spray Creek stream corridor, and promoting species and structural diversity within and between hardwood stands. Common loon (Michigan threatened) is the only rare species recorded within this compartment. Moose (Michigan special concern) utilize this compartment at various times. Other wildlife species of interest may include spotted salamander, American toad, scarlet tanager, red-backed vole and northern flying squirrel.

Mineral Resource and Development Concerns and/or Restrictions: Surface sediments consist of an end moraine of medium-textured till and glacial outwash sand and gravel and postglacial alluvium. There is insufficient data to determine the glacial drift thickness. The Cambrian Trempealeau and Munising Formations subcrop below the glacial drift. The Trempealeau could be used for stone. The nearest gravel pit is several miles to the south, but there should be potential on the uplands. There is no commercial oil and gas production in the UP.

Vehicle Access: Access into the south part of the compartment is on good dirt roads. There are a fair number of skid trails and old logging roads that are in and around the compartment. Access to the north is on good dirt roads until the location of a portable bridge at Spray Creek, which will be removed after sale completion. Access can be poor due to heavy soils.

Survey Needs: None

Recreational Facilities and Opportunities: There are no recreational facilities within the compartment however opportunities include hunting, fishing and hiking.

Fire Protection: The timber types are mainly hardwood and lowland conifers reducing the chances of any large wildland fire occurrences.

Additional Compartment Information:

- > The following 5 reports from the Operations Inventory System (OIPC) are attached:
 - Cover Type by Age Class
 - Cover Type by Management Objective
 - ♦ Compartment Volume Summary
 - Proposed Treatments No Limiting Factors
 - Proposed Treatments With Limiting Factors

> The following information is displayed, where pertinent, on the attached compartment maps:

- Base feature information, stand numbers, cover types
- Proposed treatments
- Proposed road access system
- Suggested potential old growth

Table 1 – Total Acres by Cover Type and Age Class

Shingleton Mgt. Unit Josh Wall : Examiner

Compartment 169 Year of Entry 2014



Age Class

	/	6.0	6 ^{,7} 9	67- 10-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	07. jon	100-12-1 10-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	OS: JO	00.00	10	69-10-	65.j.	601.001	611.01.	*0čz	A AG	000
Cedar	0	0	0	0	0	0	57	0	0	0	0	0	0	0	57	
Hemlock	0	0	0	0	0	0	2	0	0	0	0	0	0	0	2	
Herbaceous Openland	3	0	0	0	0	0	0	0	0	0	0	0	0	0	3	
Lowland Conifers	57	0	0	0	0	215	56	0	0	0	0	0	0	0	328	
Lowland Deciduous	22	0	0	0	0	2	9	0	0	0	0	0	0	0	33	
Lowland Mixed Forest	0	0	0	0	0	0	5	0	0	0	0	0	0	0	5	
Lowland Shrub	10	0	0	0	0	0	0	0	0	0	0	0	0	0	10	
Marsh	60	0	0	0	0	0	0	0	0	0	0	0	0	0	60	
Mixed Upland Deciduous	11	0	0	0	0	15	20	0	0	0	0	0	0	0	46	
Northern Hardwood	5	0	0	0	11	0	746	59	0	0	0	0	0	0	821	
Paper Birch	0	0	0	0	0	22	0	0	0	0	0	0	0	0	22	
Upland Spruce/Fir	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1]
Total	168	1	0	0	11	255	895	59	0	0	0	0	0	0	1389	



MICHIGAN	Shingleton Mgt. Unit Year of Entry 2014											Compartment Total Compartment Acres:	169 1389
					Acre	s by T	reatme	ent Ty	ре				
	Commercial Harvest - 255	5 Site F	Prep - 0		Т	ree Pl	anting	- 0		Preso	ribed Burn - 0	Other - 0	
	Habitat Cut - 0	Open	ing Maintenai	nce - () Т	ree Se	eeding	- 0		Pesti	cide - 0		
					Cov	ver Typ	be by H	larves	t Meth	od			
					in contraction	Co Children	Cool 1 Co	ternood A	in Other	Top Contraction	Solution of the second		
	Lowla	and Conifers	;	5	0	0	0	0	0	5	, ,		
	Lowla	and Deciduo	us	9	0	0	0	0	0	9			
	Lowla	and Mixed F	orest	5	0	0	0	0	0	5			
	Northe	ern Hardwo	od	4	232	0	0	0	0	236			
			Total	23	232	0	0	0	0	255			

Table 3 - Treatments Prescribed with No Limiting Factor

Compartment: 169 Year of Entry 2014 OF NATURA

S t					with	No Limi	ting Factor		Year of Entry 2014	DNR DNR
a n Tre d N	eatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
7 4116	9007-Cut	3.9	4112 - Maple, Beech, Cherry Association	High Density Loo	72 9	81-110	Harvest	Patch or Strip Clearcut	4110 - Sugar Maple Association	Cmpt. Review Proposal
Prescription Specs:	n Treatme these po MO= Ur Retentio	ent=Clear-cu ockets. Dep n-even aged on= Residua	it small pockets 1/2 ending on season m hardwoods with qua I BA	to 1 acre in s harked pocke hility Sugar M	ize to cr ts can b aple ste	eate regen e redlined ms	gaps. Old trail r or marked orang	uns through stand tl je.	nat should be used for	access to
<u>Other</u> Comments	<u>:</u>									
<u>Next</u> <u>Steps:</u>	Natural	regen surve	y to follow harvest d	uring next in	entory c	ycle.				
Proposed Start Date:	10/01/20	13								
9 4116	9009-Cut	8.9	6118 - Lowland Deciduous with Cedar	High Density Loo	66 9	51-80	Harvest	Clearcut with Reserves	6118 - Lowland Deciduous with Cedar	Cmpt. Review Proposal
Prescription Specs:	n Treatme MO=Re Retentio	ent=Final Ha generate Pa on=5% in po	rvest Winter Harves per Birch and White ckets	t Cut all mere Cedar	chantabl	e trees				
<u>Other</u> Comments	<u>:</u>									
<u>Next</u> <u>Steps:</u>	Natural	regen surve	y to follow harvest d	uring next in	entory c	ycle.				
Proposed Start Date:	10/01/20	13								
13 4116	9013-Cut	14.9	4110 - Sugar Maple Association	High Density Lo	68 9	111-140	Harvest	Single Tree Selection	4111 - S.Maple, Hard Mast Association	Cmpt. Review Proposal
Prescription Specs:	n Treatme Pockets MO=Un Retentic	ent= Winter I of Sugar M -even aged on=Residual	Harvest Thin stand c aple regen present t hardwoods with qua BA	lown to an av o avoid. Win lity Sugar Ma	verage o ter Harve ple sterr	f 80BA cre est าร	ating regen pock	kets to promote spec	cies diversity and Suga	r Maple regen.
<u>Other</u> Comments	<u>.</u>									
<u>Next</u> <u>Steps:</u>	Natural	regen surve	y to follow harvest d	uring next in	entory c	cycle.				
Proposed Start Date:	10/01/20	13								
15 4116	9015-Cut	12.3	4112 - Maple, Beech, Cherry Association	High Density Log	68 9	81-110	Harvest	Group Selection	4112 - Maple, Beech, Cherry Association	Cmpt. Review Proposal
Prescription Specs:	n Treatme 1 acre ir MO=Re Retentic seed tre	ent=Winter H n size in low generate Bla on=Pockets es.	larvest Thin stand d er quality and areas ack Cherry (sproutin of Hemlock on the e	own 80 BA o heavy to Che g), Sugar Ma ast end of sta	n averaç erry. ple, Pap and alon	ge in areas per Birch, a g with all ໂ	heavy to Sugar Ind promote mor Yellow Birch,Whi	Maple otherwise cre e conifers Spruce an te Spruce, and a fev	eate large gaps/small c nd Hemlock. v Black Cherry along g	lear-cuts 1/2 to ap edges for
<u>Other</u> Comments	Lots of o	older Black (Cherry pulp trees							
<u>Next</u> Steps:	Natural	regen surve	y to follow harvest d	uring next in	entory c	cycle				
Proposed Start Date:	10/01/20	13								

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Table 3 -- Treatments Prescribed with No Limiting Factor

Compartment: 169

Year of Entry 2014

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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
20	41169020-Cı	i t 10.3	4110 - Sugar Maple Association	High Density Pole	68	111-140	Harvest	Single Tree Selection	4110 - Sugar Maple Association	Cmpt. Review Proposal
<u>Prescr</u> Specs	<u>iption</u> Treatr <u>:</u> harves MO=L Reten	nent=Winter st. In-even ageo tion=Residua	Harvest Thin stand to hardwoods with qualitian BA	an average ty Sugar Ma	of 80 B. ple ster	A creating ns	regn gaps to pro	mote species divers	ity andSugar Maple re	gen. Winter
<u>Other</u> <u>Comm</u>	Wet c ients:	rossing to ge	etting to stand							
<u>Next</u> <u>Steps:</u>	Natura	al regen surv	ey to follow harvest du	ring next in	entory o	cycle.				
Propose Start Da	<u>ed</u> <u>ate:</u> 10/01/2	2013								
28	41169028-Cı	it 4.8	6128 - Lowland Coniferous, Mixed Deciduous	High Density Log	58 9	51-80	Harvest	Clearcut with Reserves	6128 - Lowland Coniferous, Mixed Deciduous	Cmpt. Review Proposal
Prescr Specs	<u>iption</u> Treatr <u>:</u> MO=F Reten	nent=Final H legenerate V tion=5% of a	larvest Winter Harvest Vhite Cedar cerage in pockets	Cut all mer	chantab	le species				
<u>Other</u> Comm	ients:									
<u>Next</u> <u>Steps:</u>	Natura	al regen surv	ey to follow harvest du	ring next in	entory o	cycle.				
Proposi Start Da	<u>ed</u> ate: 10/01/2	2013								
30	41169030-Cı	it 6.2	4112 - Maple, Beech, Cherry Association	High Density Pole	68	111-140	Harvest	Single Tree Selection	4112 - Maple, Beech, Cherry Association	Cmpt. Review Proposal
<u>Prescr</u> Specs	<u>iption</u> Treatr and sp MO=L Reten	nent=Winter becies divers In-even ageo tion=Residua	Harvest Thin stand to ity. Winter Harvest I hardwoods with quali al BA	80 BA on av ty Sugar Ma	verage r ple sten	emoving th ns	ne larger Red Ma	ple while putting in	regen gaps to promote	Sugar Maple
<u>Other</u> Comm	ients:									
<u>Next</u> <u>Steps:</u>	Natura	al regen surv	ey to follow harvest du	ring next in	entory o	cycle.				
Propose Start Da	<u>ed</u> ate: 10/01/2	2013								
33	41169033-Cı	it 15.9	4112 - Maple, Beech, Cherry Association	High Density Log	70 9	111-140	Harvest	Single Tree Selection	4112 - Maple, Beech, Cherry Association	Cmpt. Review Proposal
Prescr Specs	<u>iption</u> Treatr <u>:</u> MO=L Reten	nent=Thin st n-even ageo tion=Residua	and down to 80 BA on I hardwoods with quali al BA	average wh ty Sugar Ma	ile putti ple sten	ng in regen ns	gaps to promote	e species diversity a	and Sugar Maple. Avoi	d seeps.
<u>Other</u> Comm	ients:									
<u>Next</u> <u>Steps:</u>	Natura	al regen surv	ey to follow harvest du	ring next in	entory o	cycle.				
Propos Start Da	<u>ed</u> ate: 10/01/2	2013								

Table 3 - Treatments Prescribed with No Limiting Factor

Compartment: 169 Year of Entry 2014 FNATURA

S t					with	No Limit	ing Factor		Year of Entry 2014	DNR BOURCES
a n T d	reatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
36 41	169036-Cut	5.2	6132 - Mixed Lowland Forest with Cedar	High Density Pole	60	51-80	Harvest	Clearcut with Reserves	6132 - Mixed Lowland Forest with Cedar	Cmpt. Review Proposal
<u>Prescripti</u> <u>Specs:</u>	i <u>on</u> Treatme MO=Reg Retentio	nt=Final H generate V n=Pockets	larvest, Winter Harvest, Vhite Cedar s of Hemlock and trees	Blue line ir	n check nem	for accurac	у			
<u>Other</u> Commen	<u>ts:</u>									
<u>Next</u> Steps:	Natural r	egen surv	ey to follow harvest dur	ing next inv	entory o	cycle.				
Proposed Start Date	: 10/01/20 ⁻	13								
38 41 ⁻	169038-Cut	34.1	4110 - Sugar Maple Association I	High Density Log	68 J	111-140	Harvest	Single Tree Selection	4110 - Sugar Maple Association	Cmpt. Review Proposal
<u>Prescripti</u> Specs:	ion_ Treatme MO=Un- Retentio	nt=Thin st even ageo n=Residua	and down to 80 BA on a d hardwoods with quality al BA	average wh y Sugar Ma	ile puttir ple sten	ng in regen ns	gaps to promote	e species diversity a	nd Sugar Maple.	
<u>Other</u> <u>Commen</u>	<u>ts:</u>									
<u>Next</u> <u>Steps:</u>	Natural r	regen surv	ey to follow harvest dur	ing next inv	entory o	cycle.				
Proposed Start Date	<u>:</u> 10/01/20 [.]	13								
43 41 ⁻	169043-Cut	138.7	4111 - S.Maple, Hard Mast I Association	High Density Log	68 J	141-170	Harvest	Single Tree Selection	4111 - S.Maple, Hard Mast Association	Cmpt. Review Proposal
<u>Prescripti</u> <u>Specs:</u>	ion Treatme check fo MO=Un- Retentio	nt=Thin st r accuracy even ageo n=Residua	and down to 80BA on a /. d hardwoods with quality al BA	iverage whi y Sugar Ma	le puttin ple sten	g in regen ູ າຣ	gaps to promote	species diversity a	nd Sugar Maple. Blue	lines are in
<u>Other</u> <u>Commen</u>	<u>ts:</u>									
<u>Next</u> <u>Steps:</u>	Natural r	egen surv	ey to follow harvest dur	ing next inv	entory o	cycle.				
Proposed Start Date	<u>.</u> 10/01/20 ⁻	13								
То	tal Treatmer	nt								

Total Treatment Acreage Proposed: 255.1

S t		Shingleton	Mgt. Unit	Table 4	Tre a L	eatments imiting	Compartment: 169 Year of Entry 2014	DNR MATURE		
a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
			#Error							
Presci Specs	ription ::									
<u>Other</u> Comm	<u>nent:</u>									
<u>Next</u> <u>Steps:</u>	<u>.</u>									
<u>Propos</u> Start D	<u>ed</u> <u>ate:</u> #Error									
<u>Limitir</u> Treatn	ng Factor and No nent Reason	<u>)</u>								
Ac	Total Treatmen	it d: O								

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				Ou Prescr	t of YC ibed w	DE Tro ith No Li	or	Year of Entry: 2014	AND ANTURY PRODUCTS	
Tre: N	atment Iame	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
410 (09014- Cut1	5.2	6120 - Lowland Cedar	High Density Pole	141		Harvest	Patch or Strip Clearcut	6120 - Lowland Cedar	Cmpt. Review Proposal - Incomplete
Prescription Specs:	n patch cut	t app. 5 ac	res, determined at time	e of prep						
<u>Other</u> Comments:										
<u>Next</u> <u>Steps:</u>	Monitor a	according t	o work instructions.							
Proposed Start Date:	10/01/20	11								
41044 O	4_OutOfY E-Cut	0.9					Harvest	Crown Thinning	42210 - Natural Red Pine	Cmpt. Review Proposal - Incomplete
Prescription Specs:	 Mark red 	pine and v	white pine to 80 sq.ft. v	where dens	ities are	high enoug	h. Cut all other	species except hem	llock, oak, and cedar.	
<u>Other</u> Comments:	Retentior	n will be a	portion of the red pine	and white p	oine trees	s remaining].			
<u>Next</u> <u>Steps:</u>	Possible	regenerati	on harvest next year o	f entry.						
Proposed Start Date:	10/01/20	13								
4117:	2002-Cut	4.4	4112 - Maple, Beech, Cherry Association	High Density Pole	49		Harvest	Single Tree Selection	4110 - Sugar Maple Association	Cmpt. Review Proposal
Prescription Specs:	n_ Treatmen adjacent MO=Un-e Retentior	nt=Thin sta hardwood even aged n=Residua	and down to 80 BA on in comp 169 in 2014. hardwoods with qualit I BA	average wh y Sugar Ma	nile puttin aple stem	ng in regen ns	gaps to promote	e species diversity a	and Sugar Maple. Put s	tand up with
<u>Other</u> Comments:										
<u>Next</u> <u>Steps:</u>	Natural r	egen surve	ey to follow harvest dur	ing the nex	t invento	ory cycle.				
Proposed Start Date:	10/01/20	14								
Total	Treatmen	t	_							

Acreage Proposed: 10.5

S t	Shingleto	n Mgt. Unit		5 – Fo	prested Sta	nds Compartment: 169 Year of Entry: 2014
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	6119 - Mixed Lowland Deciduous Forest	Low Density Sapling	3.2	5		Stand was cut 5-6 yrs ago, MO Paper Birch
2	4191 - Mixed Upland Deciduous with Conifer	High Density Log	18.7	60	81-110	Clear-cut stand next inventory cycle when the hardwood is thinned again, stand was sold and they started harvesting 5-6yrs ago but must have pulled out due to weather conditions. MO Paper Birch
3	4110 - Sugar Maple Association	Medium Density Log	20.5	70	81-110	Thinned 5-6 yrs ago, MO Sugar Maple
4	6119 - Mixed Lowland Deciduous Forest	Low Density Sapling	15.1	5		Cut last inventory cycle, stand gets wetter as you go south. MO Maple on ridges and Paper Birch/Cedar in wet areas.
5	4110 - Sugar Maple Association	Medium Density Log	3.4	72	51-80	Thinned 5-6 yrs ago, MO Sugar Maple
6	4191 - Mixed Upland Deciduous with Conifer	High Density Log	1.3	62	81-110	Island of upland hardwoods, leave due to access and size. MO long lived conifers.
7	4112 - Maple, Beech, Cherry Association	High Density Log	18.9	72	81-110	Mixed aged stand, create small clear-cuts 1/2 to 1 acre in size and not more than 5 acres total to mimick natural disturbance. Trail runs through stand that should be used for access and for tieing clear-cut pockets together. Depending on season marked pockets can be red lined or individual tree orange.
9	6118 - Lowland Deciduous with Cedar	High Density Log	8.9	66	51-80	Clear-cut stand to promote Cedar and Paper Birch regen. Winter Harvest due to soil conditions. MO Cedar/P Birch
10	4112 - Maple, Beech, Cherry Association	Low Density Sapling	4.7	5		Cut 5-6 years ago, MO Red Maple
11	6128 - Lowland Coniferous, Mixed Deciduous	Medium Density	18.4	5		Cut 5-6 years ago, some nice cedar regen in pockets. MO Cedar and Black Spruce
12	4140 - Other Upland Deciduous	High Density Log	22.0	58	81-110	Claer-cut next inventory cycle when the adjacent hardwood stands get thinned again. MO Mix deciduous and conifers.
13	4110 - Sugar Maple Association	High Density Log	14.9	68	111-140	Thin stand down to 80 BA on average while creating regen gaps to promote Sugar Maple regen. Pockets of Sugar Maple regen already present.
15	4112 - Maple, Beech, Cherry Association	High Density Log	12.3	68	81-110	Clear-cut stand extending into the Fir/Cedar to the north. Nice component of Black Cherry, leave Hemlock by painting out pockest or trees around them on the east end. MO Black Cherry stomp sprouts, HM and RM, P Birch.
16	4110 - Sugar Maple Association	Medium Density Log	121.7	68	81-110	Thinned 5-6 yrs ago, pockets of HM regen. MO HM
17	4112 - Maple, Beech, Cherry Association	Medium Density Log	76.7	68	81-110	Nice pockets of HM regen, stand was thinned 5- 6 years ago. MO HM

5 – Forested Stands

Compartment: 169 Year of Entry: 2014

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S t	Shingletor	i Mgi. Unit		0-10		Year of Entry: 2014
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
19	6128 - Lowland Coniferous, Mixed Deciduous	Medium Density Log	210.3	57	51-80	Wet, many seeps empty into the stand with pockets of straight Birch and Cedar.
20	4110 - Sugar Maple Association	High Density Pole	10.3	68	111-140	Thin stand down to 80 ba creating regen gaps to promote HM regen and diversity. Pockets of HM regen already presnt. Limit factor stand due to stream crossing on southeast side.
21	4110 - Sugar Maple Association	Medium Density Log	17.8	68	81-110	Nice HM regen, thinned 5-6 years ago, MO HM
22	6120 - Lowland Cedar	Medium Density Pole	31.3	60	1-50	MO Cedar
23	4110 - Sugar Maple Association	Medium Density Log	61.7	68	81-110	Awesome HM regen. Thinned 5-6 years ago. MO HM
24	4199 - Other Mixed Upland Deciduous	Low Density Sapling	10.5	5		Clear-cut 5-6 yrs ago, Wet inclusions of cedar cut along with the rest but not regenerating back to Cedar. MO Aspen
25	6128 - Lowland Coniferous, Mixed Deciduous	Low Density Sapling	38.7	5		Stand was clear cut 5-6 yrs ago, very nice Cedar regen with over 300 trees/ ac on the eastside
26	6118 - Lowland Deciduous with Cedar	High Density Pole	2.4	50	51-80	Clear-cut next inventory cycle when the hardwood in the area is thinned again. Pockets of pure Birch and Cedar.
27	42360 - Upland Cedar	Medium Density Log	23.1	65	51-80	Put in regen gaps the next time the hardwood around the stand gets thinned. MO Cedar
28	6128 - Lowland Coniferous, Mixed Deciduous	High Density Log	4.8	58	51-80	Clear-cut stand, winter harvest due to soil conditions, access will be from the adjacent hardwood stand that will also be thinned. Retain any hemlock and white pine. MO cedar and paper birch.
29	6118 - Lowland Deciduous with Cedar	Low Density Sapling	3.9	5		Clear-cut 5-6 yrs ago, MO Maple
30	4112 - Maple, Beech, Cherry Association	High Density Pole	6.2	68	111-140	Remove large cherry and Red Maple while thinning HM poles. Include harvest with clear-cut of stand 32, winter harvest due to access.
32	6120 - Lowland Cedar	High Density Pole	2.6	60	111-140	Nice pole stand of Cedar, MO Cedar
33	4112 - Maple, Beech, Cherry Association	High Density Log	15.9	70	111-140	Thin stand down to 80 BA by favoring the Sugar Maple since the stand is heavy to Red Maple. Create regen gaps to promote diversity and encourage more Sugar Maple regen. Factor Limit Stand.
35	4113 - R.Maple, Conifer	Medium Density Pole	11.0	45	51-80	Seep running through stand, MO seep buffer
36	6132 - Mixed Lowland Forest with Cedar	High Density Pole	5.2	60	51-80	MO W Cedar and gaining access to the stands to the north.

S t	Shingletor	n Mgt. Unit		5 – Fo	orested Sta	nds Compartment: 169 Year of Entry: 2014
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
37	4190 - Mixed Upland Deciduous with Cedar	High Density Pole	15.4	50	51-80	Clear-cut next inventory cycle giving the adjacent stand more tme to become stocked. Pockets of pure P Birch and Cedar.
38	4110 - Sugar Maple Association	High Density Log	34.1	68	111-140	Thin down to 70-80 BA putting in regen gaps to promote HM regen and species diversity.
39	6128 - Lowland Coniferous, Mixed Deciduous	Medium Density Pole	52.7	60		Seeps run through stand towards the North on the east and west sides. MO long lived conifers.
40	4112 - Maple, Beech, Cherry Association	Medium Density Log	7.0	68	51-80	Thinned last inventory cycle, didn't see much for HM regen.
43	4111 - S.Maple, Hard Mast Association	High Density Log	158.4	68	141-170	Thin stand to 80 BA while creating gaps to promote Sugar Maple regeneration and stand/species diversity. MO Sugar Maple.
44	6129 - Mixed Coniferous Lowland Forest	High Density Pole	1.0	60	81-110	MO long lived conifers
45	6129 - Mixed Coniferous Lowland Forest	High Density Pole	2.0	60	81-110	MO long lived conifers
46	4111 - S.Maple, Hard Mast Association	Medium Density Log	225.3	68	81-110	Thinned 5-6 yeras ago. Thick pockets of Red Maple in the understory, MO Sugar Maple
47	42320 - Upland Spruce	Medium Density Pole	1.0	19	1-50	MO Conifer cover, planted White Spruce, was a opening.
50	42350 - Upland Hemlock	High Density Pole	2.3	60	81-110	MO Long Lived Conifers

6 – Nonforested Stands

Compartment: 169 Year of Entry: 2014



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:	Unidi
8	6239 - Mixed Emergent Wetland	33.6	No	Unspecified		
14	3102 - Grass	1.7	Yes	Low (NonForested)		
18	629 - Mixed non-forested wetland	10.2	No	Unspecified		
31	6239 - Mixed Emergent Wetland	11.3	No	Unspecified		
34	6239 - Mixed Emergent Wetland	4.5	No	Unspecified		
41	6239 - Mixed Emergent Wetland	6.4	No	Unspecified		
42	6239 - Mixed Emergent Wetland	2.4	No	Unspecified		
48	3102 - Grass	1.4	Yes	Low (NonForested)		
49	6233 - Wet Meadow	1.8	No	Unspecified		



7 – PROPOSED SPECIAL CONSERVATION AREA* (SCA) DETAILS

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

Stand	SCA Type	SCA Name	Acres	Comments



8 – DEDICATED CONSERVATION AREA DETAILS

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

Conservati Area	on Type	Description	ERA = Ecological Reference Area HCVA = High Conservation Value Area SCA = Special Conservation Area	
SCA Cold Water Lake		A coldwater lake has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species to persist from year to year. Suitable conditions for coldwater fishes may occur in Michigan lakes if they are relatively deep, have substantial groundwater inflows, or are located in colder (northern) areas of the state. Such lakes are established by Director's action and designated as trout resources by Fisheries Order 200.		
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.		
SCA	Contiguous Resource Area	These are DNR-owned lands that are directly contiguous to adjar for coordination of landscape-level management for similar purpor contiguous DNR-owned lands, such as State Parks, State Fores include DNR-owned lands that are adjacent to other ownerships wilderness areas, National Wildlife Refuges, conservancy lands, Mountain Club.	cent ownerships, where there is potential oses. Such lands include distinct but t and Wildlife Areas. Such lands also such as Federal Parks, National Forest and private lands such as the Huron	
SCA	Visual Management Area	An area of general social appreciation that is managed to recogr Examples of these areas include scenic vistas, scenic or natural	ize and preserve a particular visual value. beauty roads, and lakeshore areas.	



/		86°22'0"W	
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-	 Trail (No Closed I Hiking T Hiking T Stream Intermitt 	on-Recreation) Roads Trails Trail	
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	Non-Forest S Level 3 310 - He 623 - Er 629 - Mi	Stands erbaceous Openland nergent Wetland xed non-forested wetland	-
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Legend

- \diamond **DNR Survey Corner**
- **DNR Field Corner** \diamond
- **Remonumented Section Corners**
- Miris Corners
- Highway
- County Paved Roads
- Paved Roads
- County Gravel Roads
- Gravel Roads _
- Poor Dirt Roads _
- County Poor Dirt Roads ____
- Trail (Non-Recreation) _ _ _ .
- Closed Roads
- k Hiking Trails
- Hiking Trail ----
- Stream
- Intermittent Stream
- Stand Boundaries

Forest Stands

Level 3

- 411 Northern Hardwood
- 414 Other Upland Deciduous
- 419 Mixed Upland Deciduous
- 423 Other Upland Conifers 611 Lowland Deciduous Forest
- 612 Lowland Coniferous Forest
- 613 Lowland Mixed Forest

Non-Forest Stands

- Level 3
- 310 Herbaceous Openland
- 623 Emergent Wetland
- 629 Mixed non-forested wetland

