

Revision Date: 05/30/2012

Stand Examiner: Dustin Salter, FRD

Legal Description: T36N R28W Sections 9, 16, 21 and 32

Management Goals: This compartment is comprised primarily of four different cover types which are almost equal in acres. The four primary cover types are aspen, lowland conifer, mixed northern hardwoods/upland deciduous and oak. This treatment period we are clear cutting one aspen stand, which is 70 acres. The majority of the aspen acreage within this compartment has a low site index. The next prominent cover type is northern hardwoods/upland deciduous. There are three stands scheduled to be clearcut totaling 98 acres, with the intention of managing for a mix of hardwood species along with some upland conifer. These hardwood stands contain poor quality red maple; there are not enough quality stems to manage on an uneven basis. There is another 18 acre upland deciduous stand that will be shelterwood cut managing for a mix of oak, pine, and hardwood.

Lowland conifer cover type is the next prominent one. There are four stands scheduled for seed tree cuts, which total 86 acres. These areas are all over 95 years of age. The stands prescribed are a mix of tamarack, black spruce and cedar. These stands will be managed for a mix of lowland conifer species. There haven't been any treatments in this cover type in this compartment since the original logging days. The eastern larch beetle and the spruce budworm are both prevalent in this area and it is important to begin to regenerate these stands before we lose our seed source.

The last prominent cover type is oak. The northern portion of the compartment consists of high quality red oak on the ridges and there is one stand prescribed for a thinning. This stand is 69 acres. The oak in the southern parts of the compartment are low quality pin oak, which are nearing the end of their life cycle. There are two pin oak stands prescribed for a clearcut and after harvest they are to be planted to jack pine. These stands total 32 acres. There is an abundance of low quality oak/upland brush cover types in this landscape with little upland conifer acreage. There is considerable die off of the oak due to senescence and oak wilt. There are a number of epi-centers of oak wilt throughout the compartment. These will need to be treated.

Soil and Topography: Topography is level with some rolling hills. Soils include well-drained sandy loams and poorly drained black muck over sandy loam. Prominent soil series are Pemene, Lupton and Cathro.

Ownership Patterns, Development, and Land Use in and Around the Compartment: This compartment is located in the center of a block of state forest land that is about 20 miles long and 8 miles wide in the southwestern part of Menominee County. This compartment is broken up into three different sections, with none of them being connected to the other portions. This compartment is bounded by mostly private property. The majority of this compartment and the surrounding private lands are primarily forest land used for recreational purposes. There are numerous homes and camps located in close proximity to this compartment. There is also some private land around the compartment that is used for agricultural purposes.

Unique, Natural Features: None Known

Archeological, Historical, and Cultural Features: None Known

Special Management Designations or Considerations: None

Watershed and Fisheries Considerations: The Shakey River flows through a very small portion of the compartment. Also Rosebush creek flows through the northern portion of the compartment.

Wildlife Habitat Considerations: Compartment 19 is part of the Menominee End Moraine Management Area: This management area contains forest types that are adapted to sandy outwash plain conditions. The Shakey Lakes Savanna Natural Area is located here. Most of the unit's oak resource is located in this management area, and perpetuation of this cover type is of high priority. The presence of oak wilt disease increases the urgency to find management solutions to oak regeneration challenges. There are also opportunities to expand and link forest openings and upland brush habitats through the use of prescribed burns and mechanical treatments. Featured wildlife species include black bear, ruffed grouse, and eastern bluebird.

Aspen: One large aspen stand has been nominated for treatment. Regenerating aspen will provide habitat for a variety of species. There is an oak component in this stand along with oak wilt. See below. *Oak Resource*: Wildlife desires a high quality oak resource and therefore initiated a discussion on maintaining this species when stands are harvested. For three of these stands, an agreement was reached that 10% retention would be used and the majority would be oak. The remaining stands will be reviewed further with wildlife working toward the perpetuation of this resource and associated habitats. Two stands which have had oak wilt treatments in the past will be planted to white spruce with a number of oak seedlings or saplings per acre.

Lowland Swamp Conifer: Three lowland conifer stands have been nominated for final harvest. Due to the high value of these types for wildlife and the difficulty in reliably regenerating these stands to a similar species composition, specifically the cedar component, these stands and issues will be further reviewed prior to a treatment being agreed upon.

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. The glacial drift thickness varies between 10 and 100 feet. Beneath the glacial drift is the Cambrian Munising Formation which overlaps Precambrian aged rocks, which may have metallic and nonmetallic mineral potential. State land is currently leased in Section 32 for metallic exploration, known as the "Back Forty". Gravel pits are located in the area and potential appears to be good on the uplands. No economic oil and gas production has been found in the UP.

Vehicle Access: The primary access into the compartment is from two-track roads that branch off of the Chalk Hills Road. The Chalk Hills Road is a county road that runs east-west just to the south of the northern section of the compartment. In order to access the central portion of the compartment access is only available through private land. The southern portion of the compartment is accessed from the Boneyard Road and two-track roads branching off from it.

Survey Needs: About 8 to 10 registered corners will need to be set in order to establish property lines for timber sales.

Recreational Facilities and Opportunities: There are no developed facilities within this compartment. The primary uses are hunting, four-wheeling and snowmobiling.

Fire Protection: With the majority of the upland forest consisting of upland deciduous species there is a low risk of a major fire in this area. There are lager openings with dried grasses and sedge that could carry a surface fire in the spring through the fall in different portions of the compartment. There are a limited amount of water sources within the compartment, with the exception of Rosebush Creek in the Northern portion of the compartment.

Additional Compartment Information:

- > The following reports from the Inventory are attached:
 - Total Acres by Cover Type and Age Class
 - ♦ Proposed Treatment Summary
 - Proposed Treatments No Limiting Factors
 - Proposed Treatments With Limiting Factors
 - Stand Details (Forested and Nonforested)
 - Dedicated and Proposed Special Conservation Areas
- > The following information is displayed, where pertinent, on the attached compartment maps:
 - Base feature information, stand boundaries, cover types, and numbers
 - Proposed treatments
 - Details on the road access system

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Table 1 – Total Acres by Cover Type and Age Class

Escanaba Mgt. Unit Dustin Salter : Examiner

Compartment 019 Year of Entry 2014



Age Class

	/	60	6 ^{7.0}	67.10 100	67.12 19	02-02-02-02-02-02-02-02-02-02-02-02-02-0	30.35	00.00	61.in	60-100 60-100	66: n.	00 ¹ 00	6'1'0'	NON JUN	en lo	(b,
Aspen	37	12	18	22	54	70	0	0	0	0	0	0	0	0	214	
Cedar	0	0	0	0	0	0	0	0	0	0	84	0	0	0	84	
Lowland Conifers	0	0	11	0	0	0	0	0	0	0	22	0	12	0	45	
Lowland Deciduous	0	0	5	0	0	0	0	0	0	0	0	0	0	0	5	
Lowland Shrub	3	0	0	0	0	0	0	0	0	0	0	0	0	0	3	
Lowland Spruce/Fir	0	0	8	0	0	0	0	0	0	0	9	0	0	0	17	
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	0	31	0	0	0	0	31	
Northern Hardwood	0	0	0	0	4	0	0	0	86	14	0	0	0	0	104	
Oak	0	0	0	0	0	0	0	0	0	101	0	0	0	0	101	
Tamarack	0	0	0	0	0	0	0	0	0	3	0	0	0	0	3	
Upland Conifers	0	24	0	0	0	0	0	0	0	0	0	0	0	0	24	
Total	41	36	42	22	58	70	0	0	86	149	115	0	12	0	631	



Table 2 – Proposed Treatment Summaries

MICHIGAN .	Escanaba Mgt. Unit Year of Entry 2014										Compartment Total Compartment Acres:	
				Acre	s by T	reatm	ent Ty	ре				
	Commercial Harvest - 374	Site Prep	- 0	-	Free P	lanting	- 18		Pres	cribed Burn - 0	Other - 0	
	Habitat Cut - 0	Opening N	Maintenance	- 0	Free S	eeding	- 0		Pesti	cide - 0		
				Cov	/er Ty	pe by H	Harves	t Meth	od			
	Aspen Cedar		70		0 52	0 2 0 0 0	0	0	50 70 52	Contraction of the second seco		
	Lowland	d Conifers	0	0	22	0	0	0	22			
	Lowland	d Spruce/Fir	0	0	9	0	0	0	9			
	Mixed L	Jpland Deciduo	ous 12	0	0	18	0	0	31			
	Norther	n Hardwood	86	0	0	0	0	0	86			
	Oak		32	0	0	0	69	0	101			
	Tamara	ck	3	0	0	0	0	0	3			
		-	Total 204	0	83	18	69	0	374			

S t		Esca	naba Mgt. Unit	Tabl			ents Prescril ing Factor	bed	Compartment: 019 Year of Entry 2014	DR NATURAL
a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
5	33019005-C	u t 3.1	6121 - Tamarack	High Density Pole	96		Harvest	Clearcut	6121 - Tamarack	Cmpt. Review Proposal
Pres Spec			pecies greater than 3'; amarack. The stand is s						Iditional seed source.	This stand will
<u>Othe</u> Com Next	ments:	quality tama	arack with some low qua	ality cedar.						
Step Propo		2013								
6	33019006-C	ut 70.4	4130 - Aspen	High Density Pole	55		Harvest	Clearcut with Reserves	4131 - Aspen, Oak	Cmpt. Revie Proposal
Pres Spec	<u>cs:</u> wilt p	ockets - this a ocket. When	rves - cut all trees; exce area has large rocks so h leaving the residual oa	trenching i	s not an	option in th	is area. So we	will cut all oak with	in two chains of the edg	e of the oak
<u>Othe</u> Com	•		ockets of oak wilt withir	this stand.						
<u>Next</u> Step										
	<u>osed</u> <u>Date:</u> 10/01/	2013								
12	33019012-C	ut 68.9	4123 - Red Oak	High Density Log	98]	111-140	Harvest	Low Thinning	4123 - Red Oak	Cmpt. Revie Proposal
Pres Spec	<u>cs:</u> coupl		in this stand down to a			te 1 60' rec	eneneration da	n nor 2 ooroo Tho	se gans should be cent	
		n option in th	nps. Within the gaps c is area. So all oak with			an 2 inche	s. Treat the oa	k wilt pockets - this	se gaps should be cent s area has large rocks s	
		•		in two chair	ns of the	an 2 inche edge of the	s. Treat the oa oak wilt pocket	k wilt pockets - this t will be cut.	s area has large rocks s	
<u>Com</u> Next Step	<u>er</u> Good Iments: <u>s:</u>	•	is area. So all oak with	in two chair	ns of the	an 2 inche edge of the	s. Treat the oa oak wilt pocket	k wilt pockets - this t will be cut.	s area has large rocks s	
<u>Next</u> Step Propo	e <u>r</u> Good iments:	quality red o	is area. So all oak with	in two chair	ns of the	an 2 inche edge of the	s. Treat the oa oak wilt pocket	k wilt pockets - this t will be cut.	s area has large rocks s	
<u>Com</u> <u>Next</u> Step Propc	e <u>r</u> Good iments: s: osed	quality red c	is area. So all oak with	in two chair	ns of the	an 2 inche edge of the	s. Treat the oa oak wilt pocket	k wilt pockets - this t will be cut.	s area has large rocks s	
Com Next Step Prope Start 15	er Good iments: s: <u>bsed</u> <u>Date:</u> 10/01/ 33019015-C <u>cription</u> Seed <u>cs:</u> retent	quality red c 2013 ut 22.1 Tree with rea ion guideline	is area. So all oak with bak stand. There are a 6129 - Mixed Coniferous Lowland	High Density Pole , leaving en	ns of the ak wilt po 102 ough ser sides of l	ed trees(mo Rosebush (s. Treat the oa oak wilt pocket n the stand, sou Harvest Datly in clumps) Creek as a buffe	k wilt pockets - this t will be cut. uth of the peninsula Seed Tree with Reserves to provide an adeq er. The contractor v	6129 - Mixed Coniferous Lowland Forest uate seed source and t will either have to use a	o trenching is Cmpt. Revie Proposal o meet the
Com Next Step ropc tart 15	er Good ments: S: Date: 10/01/ 33019015-C Cription Seed Se: retent bridge	quality red of 2013 2013 Jut 22.1 Tree with reason guideline to bring the	is area. So all oak with bak stand. There are a 6129 - Mixed Coniferous Lowland Forest serves - Cut all species es. Leave a 25 foot buff	High Density Pole , leaving en fer on both s or skid the v	as of the ak wilt po 102 ough set sides of I vood out	ed trees(mo Rosebush (to the wes	s. Treat the oa oak wilt pocket n the stand, sou Harvest Datly in clumps) Creek as a buffe and into comp	k wilt pockets - this t will be cut. uth of the peninsula Seed Tree with Reserves to provide an adeq er. The contractor v 17 to a nearby roa	6129 - Mixed Coniferous Lowland Forest uate seed source and t will either have to use a d.	o trenching is Cmpt. Revie Proposal o meet the
Com Next Step ropc tart 15	er Good ments: S: Date: 10/01/ 33019015-C cription Seed cription Seed cription Rose ments:	quality red of 2013 2013 Jut 22.1 Tree with reason guideline to bring the	6129 - Mixed 6129 - Mixed Coniferous Lowland Forest serves - Cut all species es. Leave a 25 foot buff e wood out to the north o	High Density Pole , leaving en fer on both s or skid the v	as of the ak wilt po 102 ough set sides of I vood out	ed trees(mo Rosebush (to the wes	s. Treat the oa oak wilt pocket n the stand, sou Harvest Datly in clumps) Creek as a buffe and into comp	k wilt pockets - this t will be cut. uth of the peninsula Seed Tree with Reserves to provide an adeq er. The contractor v 17 to a nearby roa	6129 - Mixed Coniferous Lowland Forest uate seed source and t will either have to use a d.	o trenching is Cmpt. Revie Proposal o meet the

S t			Escar	naba Mgt. Unit	Tabl			ents Prescril ting Factor	bed	Compartment: 019 Year of Entry 2014	DIR NATURAL PRODUCT
a n d		tment ime	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
22	33019	022-Cut	8.9	6122 - Black Spruce	High Density Pole	105		Harvest	Seed Tree with Reserves	6122 - Black Spruce	Cmpt. Review Proposal
<u>Presci Specs</u>				reserves - Cut all spec out the stand.	ies greater	than thre	e inches;	except leave see	d tree clumps (5 to	o 10 trees) of spruce and	d cedar
<u>Other</u> Comm	-	Good qu	ality black	spruce, with poor qual	ity cedar.						
<u>Next</u> Steps:	<u>:</u>										
<u>Propos</u> Start D		10/01/201	3								
26	33019	026-Cut	12.3	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	98		Harvest	Clearcut with Reserves	4191 - Mixed Upland Deciduous with Conifer	Cmpt. Review Proposal
<u>Presci</u> Specs				rves - Cut all species; e stand for a mix of the cu				es for diversity an	d for retention. Pr	imarily pine, oak, and s	oruce will be
<u>Other</u> Comm	-	This star	nd is a mix	of lowland and upland	and there i	s a wide	variety of	species.			
<u>Next</u> Steps:											
Propos Start D	sed	10/01/201	3								
28	33019	028-Cut	26.8	4126 - White, Black, N. Pin Oak	Low Density Log	98		Harvest	Clearcut with Reserves	42120 - Planted Jack Pine	Cmpt. Review Proposal
<u>Presci</u> Specs				rves - cut all species gr as necessary.	eater than 3	3 inches;	except lea	ave a few clumps	of the better quali	ty oak away from the oa	ak wilt pocket.
<u>Other</u> Comm	-	least one	e oak wilt p		A large po	ortion of t	he stand h	nas pin cherry an		k, which is in decline. ⁻ ughout it. This stand wa	
<u>Next</u> <u>Steps:</u>	-	very xeri	c site cond	ditions jack pine or red	pine are the	e only go	od choices	s to keep this are	a in forest product	e clumps of residual oak ion. This site now serve h in this area so jack pir	es as a very
Propos Start D		10/01/201	3								
29	33019	029-Cut	5.1	4126 - White, Black, N. Pin Oak	Medium Density Log	98		Harvest	Clearcut with Reserves	42120 - Planted Jack Pine	Cmpt. Review Proposal
Presci Specs		Clearcut	with reser	ves - cut all species gr	, ,		except lea	ave a few clumps		ty oak.	·
<u>Other</u> Comm	-	Very poo	or quality p	in oak, which is dying o	out of the st	and.					
<u>Next</u> Steps:	<u>:</u>	very xeri	c site con							e clumps of residual oak ion. The deer numbers	
<u>Propos</u> Start D		10/01/201	3								

S t			Escar	naba Mgt. Unit	Tab			ents Prescrib ing Factor	ed	Compartment: 019 Year of Entry 2014	DR HATURA
a n d		tment ime	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
9		9009- ant	14.0	4119 - Mixed Northern Hardwoods	Low Density Pole	98	1-50	Tree Planting	Hand Plant	42310 - Planted Spruce	Cmpt. Review Proposal
Prescr Specs				primarily white spruce, b wn and the sedge is no			ak per acre	. Trench and plar	nt around the resi	dual stems. The brush	and stumps
<u>Other</u> Comm	-	epi-cent	ers of oak	was clearcut in 1995 and wilt that were treated. V ome scattered merchar	Very little o	f the area	a has rege	nerated, there are			
<u>Next</u> Steps:	<u>.</u>	·					· ·				
Propos Start D		Unspecif	ied								
13		9013- ant	4.0	4112 - Maple, Beech, Cherry Association	Low Density Pole	45	1-50	Tree Planting	Hand Plant	42310 - Planted Spruce	Cmpt. Review Proposal
Prescr Specs				primarily white spruce, b wn and the sedge is no			ak per acre	Trench and pla	nt around the res	idual stems. The brusl	n and stumps
<u>Other</u> Comm			ated, there	in 2003 as part of an oa are some red maple st							
<u>Next</u> Steps:	<u>.</u>										
Propos Start D		Unspecif	ied								
		Freatmei Propose		5.7							

S t		Esca	naba Mgt. Unit	Table 4		eatment imiting	s Prescribed Factor	l with	Compartment: 019 Year of Entry 2014	DNR DNR
a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
16	33019016-Cut	46.7	4119 - Mixed Northern Hardwoods	High Density Pole	80	141- 170	Harvest	Clearcut with Reserves	4119 - Mixed Northern Hardwoods	Cmpt. Review Proposal
Pres Spec			rves - cut all species; ex his stand will be manag						ve some oak in clumps a at as necessary.	and some
<u>Othe</u> Com	<u>r</u> Poor qua <u>ment:</u> sure.	ality red m	aple stand with scattere	ed aspen ar	nd oak. [·]	There is a	lot of dead oak,	but it doesn't look I	ike oak wilt, but we will	nave to make
<u>Next</u> <u>Step</u>										
<u>Propo</u> Start		13								
	ing Factor and No ment Reason		: Unknown if access thr acent landowner(s) is p							
17	33019017-Cut	39.1	4119 - Mixed Northern Hardwoods	High Density Pole	81	111- 140	Harvest	Clearcut with Reserves	4139 - Aspen, Mixed Deciduous	Cmpt. Review Proposal
<u>Pres</u> Spec	s: retention		nd. There are at least						and enough of the oak t stand will be managed	
<u>Othe</u> <u>Com</u>	<u>r</u> Average ment:	to poor q	uality red maple stand v	vith red oak	and asp	oen scatte	red in.			
<u>Next</u> Step										
Propo Start		13								
	ing Factor and No tment Reason		: Unknown if access thr acent landowner(s) is p							
19	33019019-Cut	52.2	6120 - Lowland Cedar	High Density Pole	102		Harvest	Seed Tree with Reserves	6129 - Mixed Coniferous Lowland Forest	Cmpt. Review Proposal
Pres Spec									along the transition zor ix of the current oversto	
<u>Othe</u> <u>Com</u>	ment: overall th		s poor quality. The spru						along the transition zone to be harvested now wh	
<u>Next</u> Step										
<u>Propo</u> Start		13								
	ing Factor and No tment Reason		: Unknown if access thr acent landowner(s) is p							

S t		Escar	naba Mgt. Unit	Table 4		eatment imiting	s Prescribed Factor	Compartment: 019 Year of Entry 2014	DNR DNR	
a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
21	33019021-Cut	18.3	4191 - Mixed Upland Deciduous with Conifer	High Density Log	97 J	141- 170	Harvest	Shelter Wood with Reserves	4122 - Oak, Pine	Cmpt. Review Proposal
<u>Spec</u>	full 20 to current c access if	30 basal overstory s	area. Maintain 10% respecies. Access into t	etention in th	e stand	when the	overstory is remo	oved in 10 to 20 year	ere the aspen is dense or ars. Manage this stand indowners or make a w	for a mix of the
<u>Othe</u> Com	<u>r</u> Good qu <u>ment:</u>	ality red o	ak and white pine.							
<u>Next</u> Step										
Propo Start I		13								
	ing Factor and No tment Reason	_	: Unknown if access th acent landowner(s) is	•						
	Total Treatmen	ıt								

Acreage Proposed: 156.3

NATUR

Out of YOE -- Treatments Prescribed with No Limiting Factor

	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
Prese Spec	cription_ s:									
<u>Othe</u>										
<u>Next</u> Step										
Prop Start	<u>osed</u> <u>Date:</u> #Error									

Total Treatment Acreage Proposed:

0

S t	Escanaba Mgt. Unit			5 – Fe	orested Sta	nds Compartment: 019 Year of Entry: 2014
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	6120 - Lowland Cedar	High Density Pole	3.3	102		
2	6117 - Lowland Deciduous, Mixed Coniferous	High Density Sapling	5.5	20		Stand was clearcut in 1992 on contract 039-87-01. All trees were cut except oak. Multi-poly stand.
3	6122 - Black Spruce	High Density Sapling	7.8	20		Stand was clearcut in 1992 on contract 039-87-01. There were some 1/10th acre clumps retained. There is some cedar regeneration less than 3' tall.
4	429 - Mixed Upland Conifers	Medium Density	24.1	16		Stand was clearcut in 1995 on contract 030-94-01. This stand is a mix of aspen, balm, and spruce. There is also a drain that flows through the stand that had a buffer left on it.
5	6121 - Tamarack	High Density Pole	3.1	96		Good quality tamarack with some low quality cedar.
6	4130 - Aspen	High Density Pole	70.4	55		There are some pockets of oak wilt within this stand.
7	4130 - Aspen	Medium Density Pole	13.9	27		
8	6120 - Lowland Cedar	High Density Pole	28.7	102		Rosebush Creek flows through this stand.
9	4119 - Mixed Northern Hardwoods	Low Density Pole	14.0	98	1-50	Part of this stand was clearcut in 1995 and other areas were cut in 2003. The areas cut in 2003 were part of an oak wilt sale, there were a few epi-centers of oak wilt that were treated. Very little of the area has regenerated, there are some red maple stump sprouts but overall this stand is open. There are some scattered merchantable oak, red maple, and spruce.
10	6129 - Mixed Coniferous Lowland Forest	High Density Sapling	11.2	20		Stand was clearcut in 1992 on contract 039-87-01. There were some 1/10th acre patches left.
11	4130 - Aspen	High Density Pole	35.8	40		Good quality aspen.
12	4123 - Red Oak	High Density Log	68.9	98	111-140	Good quality red oak stand. There are a couple of oak wilt pockets within the stand, south of the peninsula of stand 9.
13	4112 - Maple, Beech, Cherry Association	Low Density Pole	4.0	45	1-50	This area was cut in 2003 as part of an oak wilt sale, there were a few epi-centers of oak wilt that were treated. Very little of the area has regenerated, there are some red maple stump sprouts but overall this stand is open. There are some scattered merchantable oak, red maple, and spruce.
14	4130 - Aspen	High Density Pole	3.9	27		
15	6129 - Mixed Coniferous Lowland Forest	High Density Pole	22.1	102		Rosebush creek flows through the north end of the stand. Good quality tamarack and spruce with poor quality cedar.

S t	Escanaba Mgt. Unit			5 – Fo	prested Sta	Inds Compartment: 019 Year of Entry: 2014
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
16	4119 - Mixed Northern Hardwoods	High Density Pole	46.7	80	141-170	Poor quality red maple stand with scattered aspen and oak. There is a lot of dead oak, but it doesn't look like oak wilt, but we will have to make sure.
17	4119 - Mixed Northern Hardwoods	High Density Pole	39.1	81	111-140	Average to poor quality red maple stand with red oak and aspen scattered in.
18	4130 - Aspen	High Density Sapling	37.2	7		Stand was clearcut in 2005 on contract 021-04-01.
19	6120 - Lowland Cedar	High Density Pole	52.2	102		This stand is a mix of black spruce, cedar, and tamarack. There is a two chain strip of good quality cedar along the transition zone to stand, but overall the cedar is poor quality. The spruce and tamarack are dying out due to their age, the stand needs to be harvested now while there is a quality seed source.
21	4191 - Mixed Upland Deciduous with Conifer	High Density Log	18.3	97	141-170	Good quality red oak and white pine.
22	6122 - Black Spruce	High Density Pole	8.9	105		Good quality black spruce, with poor quality cedar.
23	4134 - Aspen, Spruce/Fir	Medium Density	11.8	16		Stand was clearcut in 1996 on contract 023-94-01. The cedar and oak was retained. The stand is filling in with spruce and balm. There are areas of this stand that are lower ground.
24	6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	11.5	128		Parts of this stand are higher ground and this stand is a mix of species.
25	4130 - Aspen	High Density Pole	18.5	45		
26	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	12.3	98		This stand is a mix of lowland and upland and there is a wide variety of species.
27	4130 - Aspen	Medium Density Pole	22.5	32		Stand was clearcut in 1977 and prescribed burned in 1980. Very low quality site, should be managed for jack or red pine.
28	4126 - White, Black, N. Pin Oak	Low Density Log	26.8	98		This stand is very low quality as a forested stand and as an opening. There are scattered clumps of pin oak, which is in decline. There is also at least one oak wilt pocket within the stand. A large portion of the stand has pin cherry and hazel brush throughout it. This stand was prescribed burned in 1980. It looks like there was some honeysuckle planted than in the fire line.
29	4126 - White, Black, N. Pin Oak	Medium Density Log	5.1	98		Very poor quality pin oak, which is dying out of the stand.

Compartment: 019 Year of Entry: 2014



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
20	6223 - Inundated Shrub Swamp	3.4	No	Unspecified	The Shakey River flows through this stand and it is mostly tag alder.



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.

Conservation Area	а Туре	Description	ERA = Ecological Reference Area HCVA = High Conservation Value Area SCA = Special Conservation Area
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.	





