

Compartment Review Presentation

Grayling Forest Management Unit Compartment 197 Entry Year 2015 Acreage: 1,577 County Crawford Management Area: Ausable Outwash

Revision Date: 06/25/2013

Stand Examiner: Thomas Barnes

Legal Description:

Township 25N Range 4W, Sections 13, 14, 15

Identified Planning Goals:

The goals are to: 1) to manage and maintain species and structural diversity, health, productivity, and sustainability throughout the compartment 2) help address the need for age diversification among red pine stands throughout the state 3) provide an area for National Guard training under the 10 year management agreement guidelines 4) provide multiple use opportunities and incorporate any visual management needed to optimize these uses.

Soil and topography:

Grayling, Graycalm, Graycalm-Grayling complex, Graycalm-Klacking complex, and Klacking loamy sand are the predominate soils. The compartment contains several disturbed areas from oil and gas activities. The topography is level to rolling.

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

The compartment consists of solid State ownership with some private tracts in Sections 13 and 14. The Beaver Creek Gas Plant is located in the SWSW of Section 13. The area is receiving increasing pressure from oil and gas development as existing fields from the south expand north. The Beaver Creek Town Hall is located in the SE ¼ of the SE ¼ of sec 13. US-27 runs through the SE corner of section 13.

Section 15 is under the ten year management agreement with the Michigan Department of Military Affairs, National Guard. The management agreement allows for military camping and maneuvers, but does not allow the use of heavy equipment or high intensity live ammunition firing. Tracked vehicles are prohibited and all vehicle use is restricted to existing trail roads. This management agreement is due to expire in 2014. It is anticipated it will be renewed with little change.

Unique Natural Features:

An old MIMS plot is found in stand 32.

Archeological, Historical, and Cultural Features:

No Archeological, Historical, or Cultural Features known.

Special Management Designations or Considerations:

Using Kotar maps and through field observation this compartment may help serve the objectives of the Red Pine Ecosystem Team. This compartment is primarily mature red pine plantation with approximately half of it ready for treatment.

Michigan Natural Features Inventory suggests that any planting be done with native seed collected locally, and to use fire for preparation of seedbeds.

Watershed and Fisheries Considerations:

None recorded at this time.

Wildlife Habitat Considerations:

The primary game species are whitetail deer and ruffed grouse. There is considerable hunting pressure for both species. Deer and grouse are two species, which require habitat in younger age classes of forest growth. The combination of younger aspen stands, longer rotation pine stands, and some openings will accommodate a wide variety of songbirds and other wildlife.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of ice-contact and glacial outwash sand and gravel and postglacial alluvium. Glacial drift thickness varies between 400 and 600 feet. Beneath the glacial drift is the Michigan Formation, quarried for gypsum elsewhere in the State. A gravel pit is located in Section 9 and potential is good on the upland areas. Most of the compartment is currently leased for oil and gas. Section 15 is part of the Beaver Creek Field. The field has produced over

21 MBO from the Devonian Richfield and over 5 Bcf gas from the Ordovician Prairie du Chien.

Vehicle Access:

Access throughout the compartment is good. The compartment has several paved and improved roads, including county roads of Military Rd., 7 Mile Rd., Tower Hill Truck Trail, King Rd., and Oak Rd. Two-tracks and trails provide access to the majority of the stands. There are no trail roads that need maintenance or closure in this system at this time. All new roads created through management activities are to be closed upon completion.

Survey Needs:

None at this time.

Recreational Facilities and Opportunities:

A designated snowmobile trail, Trail 7, run along King Rd, a seasonal county road. Several opportunities exist for hunting deer, rabbit, turkey, and grouse. The NW 1/4 of the NW 1/4 is frequented by individuals looking for mushrooms.

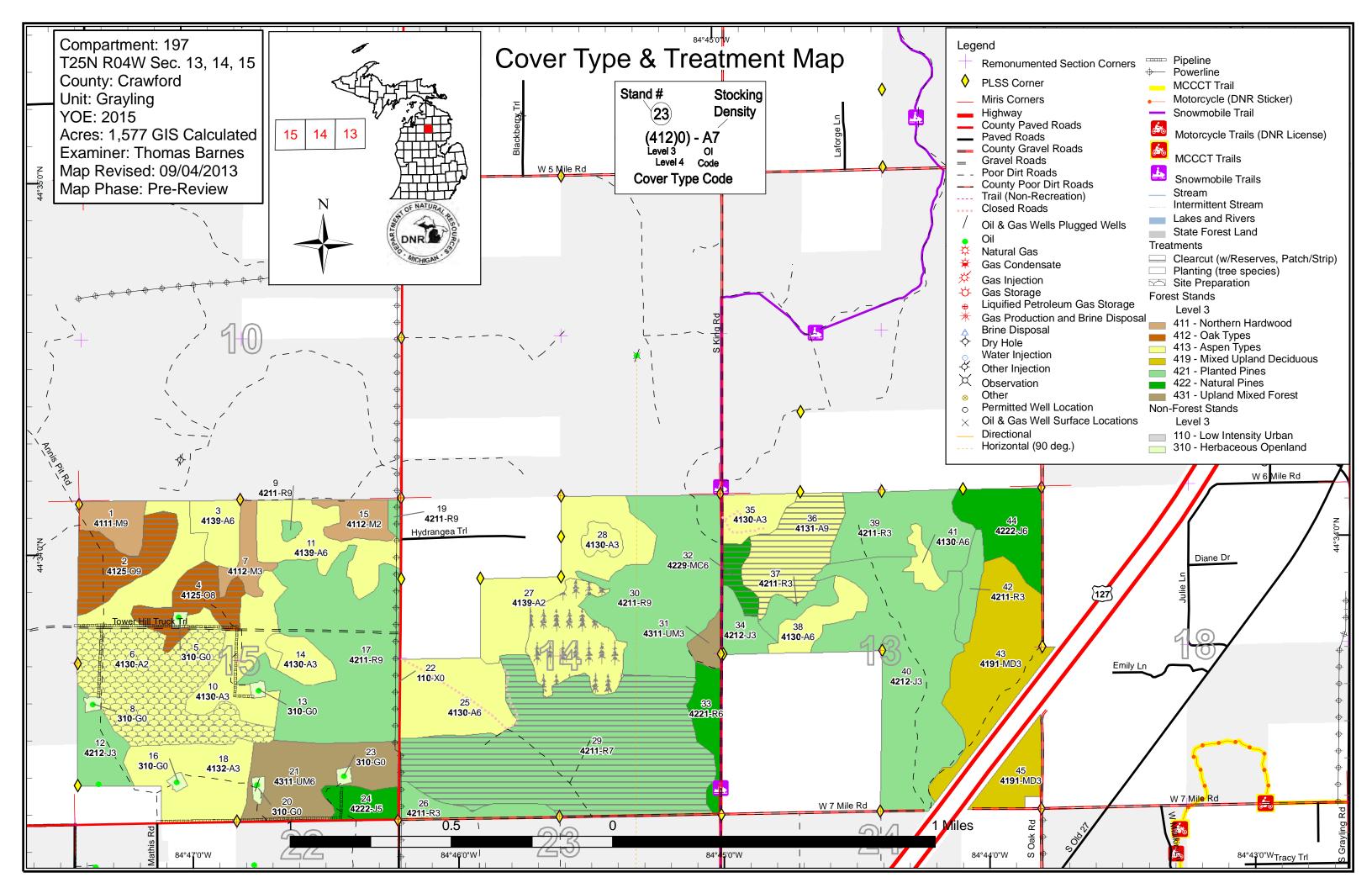
Fire Protection:

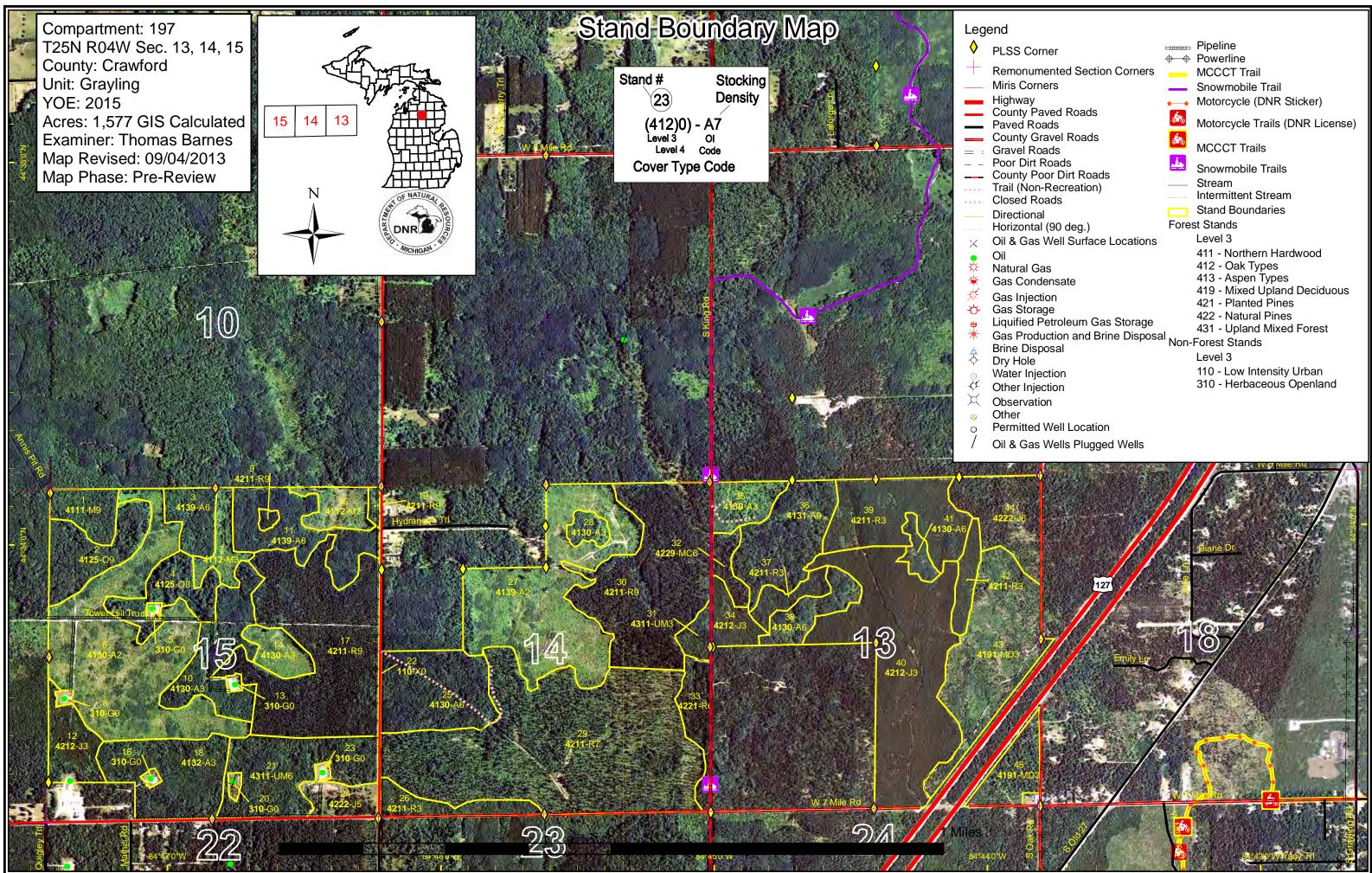
Access throughout the compartment is adequate. Military road and the west 1/3 of 7-Mile Road are paved. The rest of 7 Mile road, Oak road, and King Road are county gravel roads. Well sites provide access to much of section 15. 2-tracks provide good access throughout the rest of the compartment. Section 13 could be an area of concern due to its fire prone cover types and the private properties to the north.

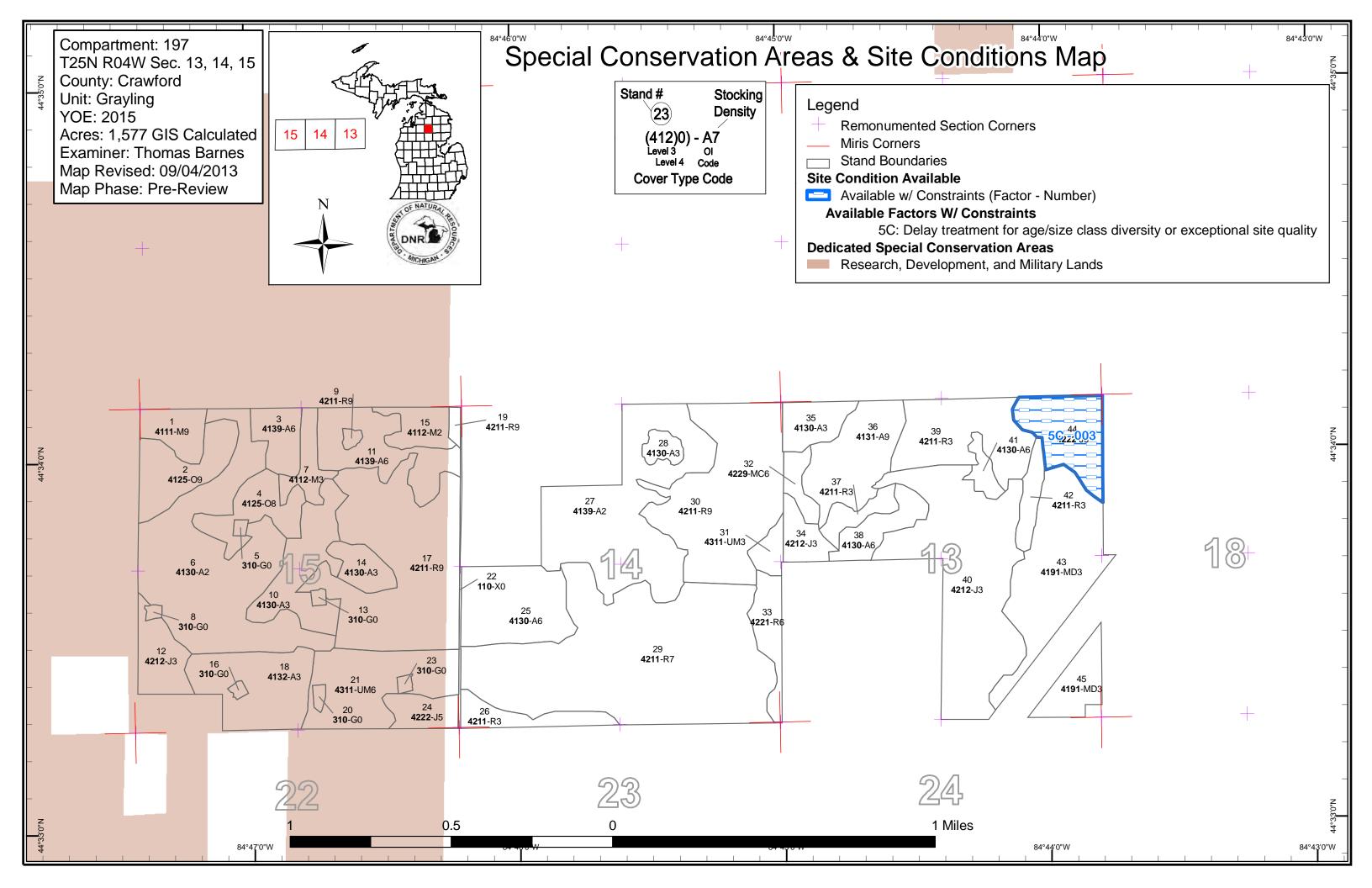
Additional Compartment Information:

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







Report 1 – Total Acres by Cover Type and Age Class

Grayling Mgt. Unit

Compartment 197 Year of Entry 2015



Thomas Barnes	:	Examiner
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						Age	Class									
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Aspen	266	49	131	0	50	0	0	0	0	46	0	0	0	0	541	[
Herbaceous Openland	9	0	0	0	0	0	0	0	0	0	0	0	0	0	9	
Jack Pine	0	22	140	0	14	0	36	0	0	0	0	0	0	0	212	
Mixed Upland Deciduous	22	75	0	0	0	0	0	0	0	0	0	0	0	0	97	
Natural Mixed Pines	0	0	0	0	0	0	0	9	0	0	0	0	0	0	9	
Northern Hardwood	29	0	0	0	0	0	0	0	0	17	0	0	0	0	45	
Oak	0	0	0	0	0	0	0	0	26	0	32	0	0	0	57	
Red Pine	0	17	74	0	0	0	0	451	0	0	0	0	0	0	542	
Upland Mixed Forest	0	8	0	0	55	0	0	0	0	0	0	0	0	0	63	
Urban	3	0	0	0	0	0	0	0	0	0	0	0	0	0	3	
Total	328	170	344	0	119	0	36	460	26	62	32	0	0	0	1577	



MICHIGAN .	Grayling Mgt. Unit Year of Entry 2015						Compartment Total Compartment Acres:	
			Acre	es by Treatr	nent Type			
	Commercial Harvest - 317	Tree Planting - 251	(Other - 92				
	Habitat Cut - 0	Opening Maintenand	ce - 0					
			Cov	ver Type by	Harvest Me	thod		
			Contraction of the second seco	Solution of the second	Street Lining	to the second se		
		/				<u>' / / / / </u> /		
	Aspen Types	(46 0	0 0	0 0	46		
	Aspen Types Natural Pines		46 0 9 0	0 0		<u> </u>		
					0 0	46		
	Natural Pines		9 0	0 0	0 0	46		

S t			G	raylin	ng Mgt. l	Jnit	Repo			nents Presc iting Factor	ribed	Compartment: 197 Year of Entry 2015	ANTIRAL PRISOURCES
a n d		itment ame	Acres	6	Cover]	Гуре	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
2	72197	'002-Cut	31	I.7 4′	125 - Blac Oa		High Density Log	101 I	81-110	Harvest	Clearcut with Reserves	4119 - Mixed Northern Hardwoods	Cmpt. Review Proposal
Preso Spec		Clearcut	t with re	serve	s, follow s	standard re	etention guid	elines fo	ocus reten	tion around area	as with higher densi	ties of red and white pir	ie.
<u>Other</u> Comr	<u>r</u> ments:	There is	a road	that d	loes run tl	hrough the	e stand. Hea	ivy oil ar	nd gas act	ivity in this area			
<u>Next</u> Steps	<u>s:</u>									cked hardwood es listed above.	stand of maple, oal	k, aspen and other asso	ciated species.
<u>Propos</u> Start [10/01/20	14										
4	72197	'004-Cut	25	5.7 4′	125 - Blac Oa		Medium Density Log	84	51-80	Harvest	Clearcut with Reserves	4119 - Mixed Northern Hardwoods	Cmpt. Review Proposal
<u>Presc</u> Spec		Clearcut	t with re	serve	s, followir	ng standar	d retention g	uideline	s. Try an	d focus retentio	n in areas with adva	anced oak regeneration.	
<u>Other</u> Comr	<u>r</u> ments:	The curr area.	rent und	lersto	ry is mapl	e and oak	with some a	ispen an	id oversto	ry is low density	mixed oak of fair q	uality. Heavy oil and ga	is activity in this
<u>Next</u> Steps	<u>s:</u>									erate to a mode aspen and oak.	erate to fully stocked	I stand of maple, aspen	and oak.
Propos Start [10/01/20	14										
29	72197	'029-Cut	204	4.8	42110 - F Red F		Low Density Log	71	1-50	Harvest	Clearcut	42111 - Planted Red Pine, Mixed Deciduous	Cmpt. Review Proposal
Preso Spec										ntion should be f		th advanced oak regene	ration. Also
<u>Other</u> Comr	r_ ments:	There is	tremen	ndous	regenerat	tion of red	maple, aspe	en and o	ak in this	stand. Site is p	roducing very nice r	ed pine.	
<u>Next</u> Steps	<u>s:</u>	Site pre	p will be	e need	led to rem	nove existi	ing regen, rol	ler chop	, herbicid	e as needed the	n trench and plant i	red pine.	
Propos Start [10/01/20	14										
32	72197	'032-Cut	g	9.2	42290 - N Mixed		High Density Pole	73	51-80	Harvest	Clearcut	4191 - Mixed Upland Deciduous with Conifer	Cmpt. Review Proposal
<u>Presc</u> Spec		Clearcut	t withou	t rese	rves to all	low the ex	pansion of a	spen in t	this stand				
<u>Other</u> Comr	<u>r</u> ments:	Small st	and of r	nixed	hardwood	ds and co	nifer adjacen	t to a ma	ature aspe	en stand			
<u>Next</u> Steps	<u>s:</u>									generate to a m		cked stand of aspen, ma	aple, oak and
<u>Propo</u> Start [10/01/20	14										
36	72197	036-Cut	45	5.5 4	131 - Asp	oen, Oak	High Density Log	97	81-110	Harvest	Clearcut with Reserves	4139 - Aspen, Mixed Deciduous	Cmpt. Review Proposal
Preso Spec		Clearcut	t with re	serve	s follow s	tandard re			/ and focu	s retention arou	nd areas with estab	lished oak regeneration	•
<u>Other</u> Comr	r_ ments:												
<u>Next</u> Steps	<u>3:</u>						ry cycle. Sta			rate to a fully sto	ocked stand of mixe	ed aspen and associated	d species.
Propos Start [10/01/20	14										

S t		Grayli	ing Mgt. Unit	Repo	Compartment: 197 Year of Entry 2015	DUR DUR				
a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
6	72197006- Prep	92.0	4130 - Aspen	Medium Density Sapling	6		Site Prep	Chopping		Cmpt. Review Proposal
Presci Specs	ription_ :									
<u>Other</u> Comm		for locations	s to plant to red pine	in lieu of tre	ating sta	nd 14				
<u>Next</u> Steps:										
Propos Start D	ed	14								
27	72197027- Plant_small	46.2	4139 - Aspen, Mixed Deciduous	Medium Density Sapling	4		Tree Planting	Hand Plant		Cmpt. Review Proposal
<u>Presc</u> Specs		t appropriate	e site prep techniques	s to get site	ready for	trenching	and planting to re	ed pine		
<u>Other</u> Comm		s roller chopp	ped in the summer of	f 2013.						
<u>Next</u> <u>Steps:</u>		success of p	planting and artifical r	regeneratior	n survey.					
<u>Propos</u> Start D		14								

Total Treatment Acreage Proposed: 455.3

S t		Grayli	ng Mgt. Unit	Report 4		eatment imiting	ts Prescribed Factor	Compartment: 197 Year of Entry 2015	DIR DIR CONTURAL PRODUCTION	
a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
		#Type!	#Type!							
Presc Specs Other Comn										
<u>Next</u> Steps	1									
Propo Start I										

Grayling Mgt. Unit

Thomas Barnes : Examiner

Compartment 197 Year of Entry 2015

Availability for Management

Total Acres Acres

NI (N) | | |

Dominant Site Conditions

Acres	Available	Not Available		No	5C
541	541		Aspen	541	
212	212		Jack Pine	176	36
95	95		Mixed Upland Deciduous	95	
9	9		Natural Mixed Pines	9	
45	45		Northern Hardwood	45	
57	57		Oak	57	
541	541		Red Pine	541	
63	63		Upland Mixed Forest	63	
1,564	1,564		Total Forested Acres	1,528	36
	100%		Relative Percent		

*Due to limitations in the current Site Conditions Analysis tool, all nonforested acres are considered available. Future development will enable analysis of nonforested types.

	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
003	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	36				
(Comments:						



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 – 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	Archaeological Site	An aquatic or terrestrial area of the State that contains physica sites of cultural and historical significance that may occur upor bottomlands. They include thousands of Native American settl and British outposts, nineteenth century logging camps, mine the Great Lakes, there are shipwrecks and other remains doct be identified by Natural heritage data from the State Historic P this compartment will be implemented in such a manner as to the sensitive nature of this information, no further detail about	n terrestrial areas and Great Lakes ements and burial sites, as well as French s and homesteads. Beneath the waters of umenting the maritime trade. Such sites may reservation Office. Proposed treatments in maintain the integrity of these sites. Due to
SCA	Research and Military Areas	These areas provide facilities and lands specifically dedicated include the 5,847 acre Forest Fire Experiment Station, the 12, Area, the Beaver Islands Archipelago Wildlife Research Area High and Hog Islands, all state owned land on Beaver, South Wildlife Research Area, the 3,000 acre Hunt Creek Fisheries F Nursery, and over 144,000 acres of Military Lands.	000 acre Houghton Lake Wildlife Research (that includes most of Garden Island, all of Fox and North Fox Islands), the Cusino

S t	Grayling	Mgt. Unit		Report 8	– Forested	Stands	Compartment: 197 Year of Entry: 2015	DRR DR NATURAL AREBOURD
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range		General Comments:	B. MICHIGAN
1	4111 - S.Maple, Hard Mast Association	High Density Log	16.5	97	81-110	activity, a few beech p pretains to BBD. Stand heavy to ironwood with above. Four BA swing species avs were 25 S basswood. Stem quality i go another 10 years befor is entirely PArVHa/PArV	gar and red maple, basswo sents however all dead with resent and looked to be cl was thinned in 1996. Und n as well as overstory spec s were taken and stand av Sugar, 8 red maple, 22 oak s pretty good and I think th re another treatment is nee Vb. Ground vegetation wo red due to snow.	h heavy bird ean as it derstory is ies listed e was 85 , and 30 is stand can eded. Stand
2	4125 - Black, N. Pin Oak	High Density Log	31.7	101	81-110	species. Sub-canopy component. Stand wa	ominated in log size. Mixt has beech and w ash as a s thinned in 1996. Stand i d vegetation would not be l snow.	seedling s entirely
3	4139 - Aspen, Mixed Deciduous	High Density Pole	16.9	25		species. Red pine is pre- been left from previous ha	o, along the north boundary	es, must of en. Stand is / transitions
4	4125 - Black, N. Pin Oak	Medium Density Log	25.7	84	51-80	advanced regen of maple the mid 90's. Stand is of if not then final harvest	BA of 70. Understory well of and oak. Stand was thin fair quality, could go anoth .Stand is entirely PArVHa/ would not be listed due to	ned back in er 10 years, PArVVb.
6	4130 - Aspen	Medium Density	127.2	6		stand would be allowed Young stand of aspen wi size red pine are scatter areas of the stand with ve of heavy deer browse as t use. There are a couple stand as well. Stand is	d was an R9, it was decided to convert to aspen mana tha fair component of red ed throughout the stand. T rry sparse regen, this could the stand did show signs o the of well sites in close proxis s entirely PArVHa/PArVVb. and not be listed due to sno	Igement. maple. Log here some be a result f heavy deer mity to this Ground
7	4112 - Maple, Beech, Cherry Association	High Density Sapling	13.7	2		and cherry. Stand is prim	ng to red maple with some arily PArVHa/PArVVb, nor ation would not be listed du	thern third is
9	42110 - Planted Red Pine	High Density Log	1.9	74	81-110	Small island of red pine lo is entirely PArVVb. Grour		
10	4130 - Aspen	High Density Sapling	40.1	26		Stand is upper sapling s the overall size as sap PArVHa/PArVVb, the sour	ak and maple with scattere ize with some pole sized s ing for this cycle. Stand is thern eastern portion PArV Id not be listed due to sno	tems, keep primarily Vb. Ground
11	4139 - Aspen, Mixed Deciduous	High Density Pole	41.1	26		Irft in middle (STAND9) middle portion being PArV	tand with som oak. Island . Stand is primarily PArVV Ha/PArVVb. Ground vege listed due to snow.	b with the

S t	Grayling	g Mgt. Unit		Report 8	– Forested	Stands Compartment: 197 Year of Entry: 2015
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
12	42120 - Planted Jack Pine	High Density Sapling	21.7	16		Stand was planted in 1996 to jack pine, stand is doing well a couple of small pockets of aspen mixed within. Stand is entirely PArVHa/PArVVb. Ground vegetation would not be listed due to snow.
14	4130 - Aspen	High Density Sapling	13.7	8		Young aspen stand regenerating pretty well. The site has been planted to Jack Pine. Stand final harvested under tsale contract #720030501. FTP submitted for stand-C72-601. Jack Pine planted May, 2010 per C72-601. Didn't list stand as a plantation as the planted jack pine is still in the sub-canopy, site is dominated aspen at point in time. Stand is primarily PArVVb, a small portion of the stand is PArVHa/PArVVb. Ground vegetation would not be listed due to snow.
15	4112 - Maple, Beech, Cherry Association	Medium Density	14.8	2		Stand cut in 2010/, regenerating to a maple stand w/oak, cherry znd aspen. Stand is entirely PArVHa/PArVVb, with east and west edges being PArVVb. Ground vegetation would not be listed due to snow.
17	42111 - Planted Red Pine, Mixed Deciduous	High Density Log	120.8	74	81-110	Thinned r pine plantation of good form and quality. Could go another 10 years. Understory heavy to maple and oak. Ten BA swings were taken and species averages were RP 80, OAK 20, RMAP 10. Stand is half PArVHa/PArVVb and PArVVb. Ground vegetation would not be listed due to snow.
18	4132 - Aspen, Jack Pine	High Density Sapling	49.0	16		Mixed stand of hwd and j pine. Southern portion of stand has larger scattered j pine and aspen but is included with this stand. Old OI notes the stand was planted in 1996 however, it seems that aspen has over taken the planting. Stand is entirely PArVHa/PArVVb. Ground vegetation would not be listed due to snow.
19	42110 - Planted Red Pine	High Density Log	2.5	74	81-110	Small stand of red pine left for what appears to be a visual screen foor adjacent cc. Stand is entirely PArVVb. Ground vegetation would not be listed due to snow.
21	4311 - Pine, Aspen Mix	High Density Pole	54.8	42		Stand is primarily pole/sap aspen and jack pine with oak and maple mixed in. There are llog sized jpine, wpine and oak scattered about of BA < 20. Was planted as jpine however aspen is equally mixed in where jpine wqs planted so I didn't call this a plantation. Stand is entirely PArVHa/PArVVb. Ground vegetation would not be listed due to snow.
24	42220 - Natural Jack Pine	Medium Density Pole	14.2	47		Stand is mixed open and j pine with mixed hwds. No form to jpine classic open grown cactus. Stand is primarily PArVHa/PArVVb, along the north boundary it is PArVCo. Ground vegetation would not be listed due to snow.
25	4130 - Aspen	High Density Pole	50.3	42		Aspen stand should b ready for harvest in next cycle of inventory. Scattered log sized oak throughout. Some of larger aspen have started to fall down, that size class is a low percentage. Stand is entirely PArVHa/PArVVb. Ground vegetation would not be listed due to snow.

S t	Grayling	y Mgt. Unit		Report 8	– Forested	Stands Compartment: 197 Year of Entry: 2015
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
26	42111 - Planted Red Pine, Mixed Deciduous	High Density Sapling	16.8	16		Stand was planted in 1996 following salvage harvest. Good natural regen If oak. Stand is primarily PArVHa/PArVVb and the middle portion along the southern boundary is PArVVb. Ground vegetation would not be listed due to snow.
27	4139 - Aspen, Mixed Deciduous	Medium Density	107.7	4		Very young stand regenerating to r maple, aspen cherry. Stand is primarily PArVHa/PArVVb, in the NW corner along the private line is PArVVb. Ground vegetation would not be listed due to snow.
28	4130 - Aspen	High Density Sapling	6.7	21		Yong stand of aspen. Stand is entirely PArVHa/PArVVb. Ground vegetation would not be listed due to snow.
29	42110 - Planted Red Pine	Low Density Log	204.8	71	1-50	Stand was shelterwood cut in 2007-09, stands sub-canopy has tremendous regeneration of red maple, aspen and oak. Red pine is of good to excellent quality, sawlog and cabin log dbh with some potential for utility poles. Stand is entirely PArVHa/PArVVb. Ground vegetation would not be listed due to snow.
30	42110 - Planted Red Pine	High Density Log	102.4	71	81-110	Mature r pine stand, northern portion is where the other species occur the most. Understory is heavy to red maple. Treat stand during next inventory cycle. Stand is primarily PArVHa/PArVVb, eastern edge is PVCd. Ground vegetation would not be listed due to snow.
31	4311 - Pine, Aspen Mix	High Density Sapling	7.8	15		Young stand of mixed aspen and j pine. Stand is split between PArVHa/PArVVb and PVCd. Ground vegetation would not be listed due to snow.
32	42290 - Natural Mixed Pine	High Density Pole	9.2	73	51-80	Stand is a mixture of j pine, r pine, oak and aspen. Large pole to small log in size and of poor quality. Stand should be treated in the next inventory cycle. Stand is primarily PVCd with small areas in the NE and SE that are PArVHa/PArVVb. Ground vegetation would not be listed due to snow.
33	42210 - Natural Red Pine	High Density Pole	18.0	71	51-80	Northern portion of stand is primarily jack pine oak with some large r pine scattered about souther half is large red pine left for a visual screen when adjacent r pine was thinned. Stand is entirely PArVHa/PArVVb. Ground vegetation would not be listed due to snow.
34	42120 - Planted Jack Pine	High Density Sapling	13.0	22		CUT IN LATE 80's "End of Oak Block" #0448501, planted in 1991. Old SI used. Has a row of red pine or two in it. There are a couple of pockets of aspen included with this stand did not delineate out as they are the same age as plantation and would be treated when this stand is mature. Stand is primarily PVCd. Ground vegetation would not be listed due to snow.
35	4130 - Aspen	High Density Sapling	17.1	5		Stand harvested TS-720060501 "7-mile mix" 4.5 inches and up harvested. Young regenerating stand containing aspen, oak and maple. Stand is PArVHa/PArVVb. Ground vegetation would not be listed due to snow.

S t a n d	Grayling Mgt. Unit			Report 8	- Forested	Stands Compartment: 197 Year of Entry: 2015		
	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:		
36	4131 - Aspen, Oak	High Density Log	45.5	97	81-110	Stand is a mixture of big and q aspen, oak and maple. There is some scattered pine component. In areas q aspen is developing conks, however b aspen is loooking good. Oak is poor to fair quality, Northern portion of stand has larger DBH and better quality. Previous OI notes this stand was held for age class distribution. There is a pocket of about 4 acres that was harvested TS-720060501 "7-mile mix" in 2007, this pocket is included with this stand. Stand is entirely PArVHa/PArVVb. Ground vegetation would not be listed due to snow.		
37	42110 - Planted Red Pine	High Density Sapling	10.7	21		Red pine plantation with some oak, cherry, aspen and j pine mixed in the stand. Stand is upper end of sapling. Stand is primarily PArVHa/PArVVb with a small portion of stand having PVCd in the NE corner. Ground vegetation would not be listed due to snow.		
38	4130 - Aspen	High Density Pole	18.4	26		Young aspen stand harvested in the 1986. Few red pine scattered throughtout the stand. Surrounding area is a red pine plantation that was planted around this stand. Stand is primarily PArVHa/PArVVb with a small portion of stand having PVCd in the NE corner. Ground vegetation would not be listed due to snow.		
39	42110 - Planted Red Pine	High Density Sapling	52.5	21		Red pine plantation with some oak, cherry, aspen and j pine mixed in the stand. Stand is upper end of sapling. There are some pockets of aspen with in this stand that were planted around. Stand is primarily PArVHa/PArVVb with vein of PVCd running from south boundary to the north in the western third of stand. Ground vegetation would not be listed due to snow.		
40	42120 - Planted Jack Pine	High Density Sapling	126.6	21		CUT IN LATE 80's "End of Oak Block" #0448501, planted in 1991. Includes a 4 acre patch of larger Jack pine that may have been left when harvested last time. No reported sub canopy due to snow, dense stand of jack pine. Stand is primarily PArVHa/PArVVb, the southern quarter is PArVVb and the north western portion has a vein of PVCd. Ground vegetation would not be listed due to snow.		
41	4130 - Aspen	High Density Pole	7.3	26		Young aspen stand harvested in the 1986/87. Few red pine scattered throughtout the stand. Surrounding area is a red pine plantation that was planted around this stand. Stand is entirely PArVHa/PArVVb, snow is covering ground so can not inventory ground cover.		
42	42110 - Planted Red Pine	High Density Sapling	11.1	21		Stand was planted to red pine in 1991. Stand is primarily PArVHa/PArVVb except for the southern quarter is PVCd. Ground vegetation would not be listed due to snow.		
43	4191 - Mixed Upland Deciduous with Conifer	High Density Sapling	74.9	11		Young stand with a mixture of hardwoods and j pine. There are pole and log sized oak and j pine totaling less than 10 BA combined. Stand is primarily PArVHa/PArVVb except for a small area near the southern end of stand 41 which is PVCd. Ground vegetation would not be listed due to snow.		
44	42220 - Natural Jack Pine	High Density Pole	36.1	61		Stand is a mixture of j pine size classes, primarily pole but areas with heavy sapling and there is a fair amount of log size as well. Red pine is also present in various size classes. Oak is present in sub canopy. Stand is half PVCd and PArVHa/PArVVb. Ground vegetation would not be listed due to snow.		

S t a n d	Grayling Mgt. Unit			Report 8	– Forestec	I Stands Compartment: 197 Year of Entry: 2015	DNR DNR
	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:	MICHIGAN
45	Deciduous with Conifer Sapling 01. All jack pine and aspen wa pine as residual. The stand is pr and maple. Several r pine in portion of stand is more reflrcti regen. There are pockets of yo out stand. There is about 30 sc and r maple. There is a home in PArVHa/PArVVb. Ground vege		Stand harvested during summer of 2006-timber sal 01. All jack pine and aspen was removed leaving pine as residual. The stand is primarily r pine with s and maple. Several r pine in excess of 20" dbh. portion of stand is more reflrctive of a clear cut wit regen. There are pockets of young aspen regen so out stand. There is about 30 sqft of residual BA of and r maple. There is a home in the SE corner. Sta PArVHa/PArVVb. Ground vegetation would not be snow.	oak and red scattered oak Southern th good oak cattered thru f oak, r pine and is entirely			

Grayling Mgt. Unit

Report 9 – Nonforested Stands

Compartment: 197



Year of Entry: 2015

Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:	
5	3102 - Grass	1.3	No	Low	Breitburn Well Site. Well # B2-15 Permit # 55044	
8	3102 - Grass	1.3	No	Low	Breitburn Well Site. Well # C1-15 Permit # 55037	
13	3102 - Grass	1.4	No	Low	Breitburn well site. Well # C3-15 Permit # 55038	
16	3102 - Grass	1.4	No	Low	Breitburn Well site. Well # D2-15 Permit # 55045	
20	3102 - Grass	1.7	No	Low	Inactive well site. Miller Brothers Well # 1-15 Permit # 34660	
22	11 - Low Intensity Urban	3.1	No	Unspecified	Military Road	
23	3102 - Grass	1.5	No	Low	Breit Burn Well Site Well # D4-15 Permit # 55030	