

Compartment Review Presentation

Grayling Forest Management Unit Compartment 230 Entry Year 2016 Acreage: 1,305 County Crawford Management Area: Ogemaw Hills

Revision Date: 01/21/2014

Stand Examiner: Thomas Barnes

Legal Description:

T25N R3W Sections 3, 10, and 15 Beaver Creek Township, Crawford County

Identified Planning Goals:

To maintain species and structural diversity while managing for health, productivity, and sustainability throughout the compartment. To provide multiple use opportunities and incorporate any visual management needed to optimize these uses.

Soil and topography:

The soils are Grayling and Graycalm sands. The area is flat to a few rolling hills in the southern portion of the compartment.

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

This compartment consists of contiguous state ownership except for a few private parcels located in sections 3 and 10. Most of the residential development is located along Five Mile Road in section 3. Penn Central Railroad bisects compartment in sections 3 and 10.

Unique Natural Features:

MNFI has record of a "Pine Barrens" natural community containing a threatened plant, rough fescue, (Festuca scabrella) along the Pen Central railroad in sections 3 and 10 in this compartment.

Archeological, Historical, and Cultural Features:

No Archeological, Historical, or Cultural Features known.

Special Management Designations or Considerations:

None at this time.

Watershed and Fisheries Considerations:

No watercourses or lakes are located within the boundaries of the compartment.

Wildlife Habitat Considerations:

With its diverse mix of pine, oak and aspen cover types, this compartment supports a variety of wildlife species including hare, grouse, turkey and deer

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of ice-contact and glacial outwash sand and gravel and post-glacial alluvium. The glacial drift thickness varies between 400 and 600 feet. Beneath the glacial drift is the Michigan Formation. The Michigan Formation gypsum is quarried for elsewhere in the State. A gravel pit is located in Section 16, State's 7 Mile Pit, and potential is good on the upland areas. The nearest production is Beaver Creek Field, located six miles to the west. The field has produced over 21 MBO from the Devonian Richfield and over 5 Bcf gas from the Ordovician Prairie du Chien. The closest leases are in Section 4. Currently there are no active well sites located within this compartment.

Vehicle Access:

County roads include Cemetary Xing (section 10 & 15), and Trail East Railroad Trail (section 3) (seasonally maintained), 5-Mile Road, 7- Mile Road and Beasley Ave. One State trail road/Power line functions solely as driveway for two seasonal cottages in section 10. The power line is located on private and not indicated on the compartment map. Most permanent residences are accessed mainly off, 5-Mile Road, 7- Mile Road and Beasley Ave.

Survey Needs:

None at this time.

Recreational Facilities and Opportunities:

The compartment does contains one designated recreational trail called the Beaver Creek Trail, a Michigan Cross Country Cycle Trail (sections of trail run on county roads, requiring road licensing by Secretary of State) located in Section 15. The compartment does support dispersed recreation in the form of hunting, as evidenced by the number of tree stands located throughout the compartment.

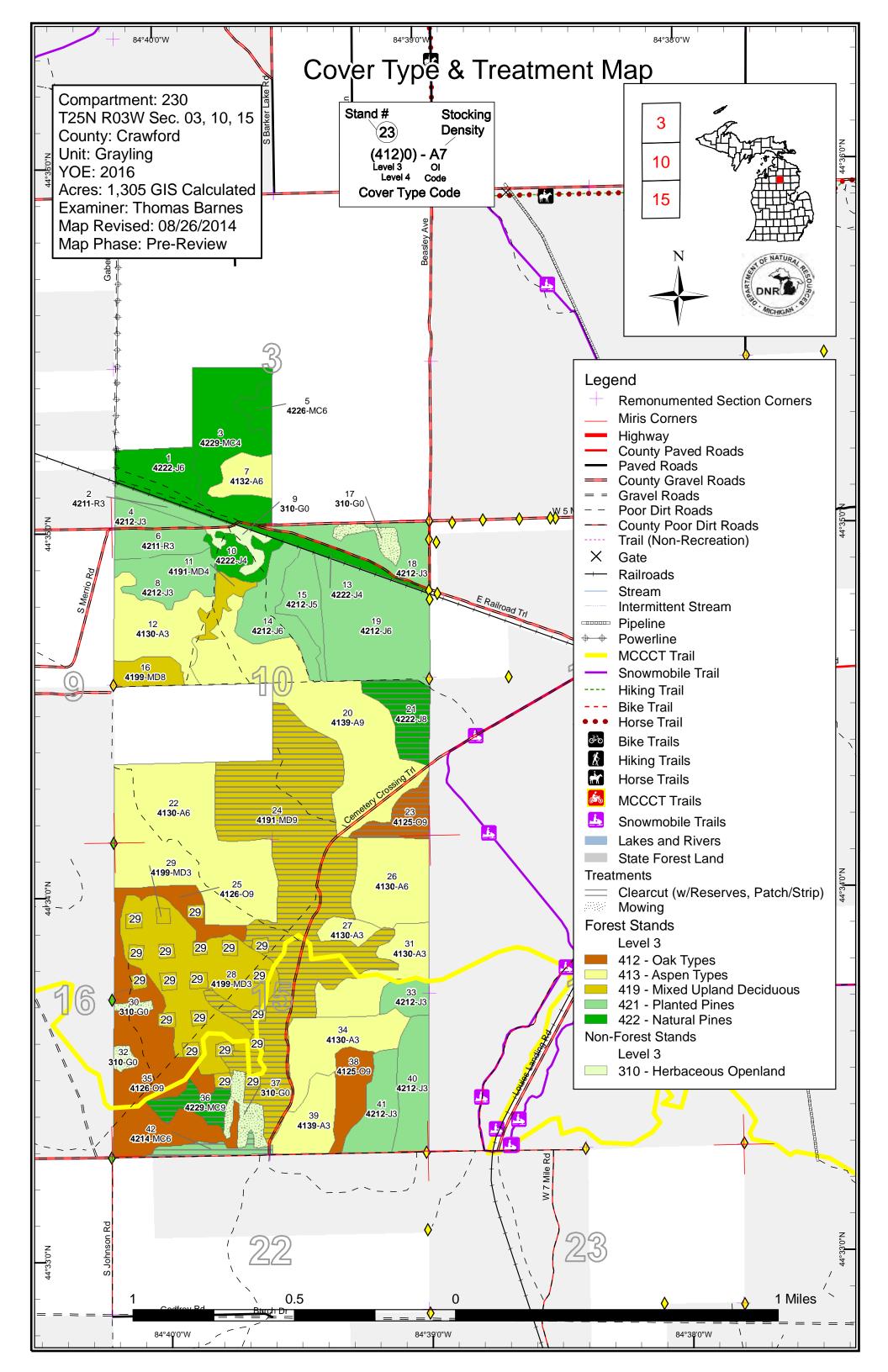
Fire Protection:

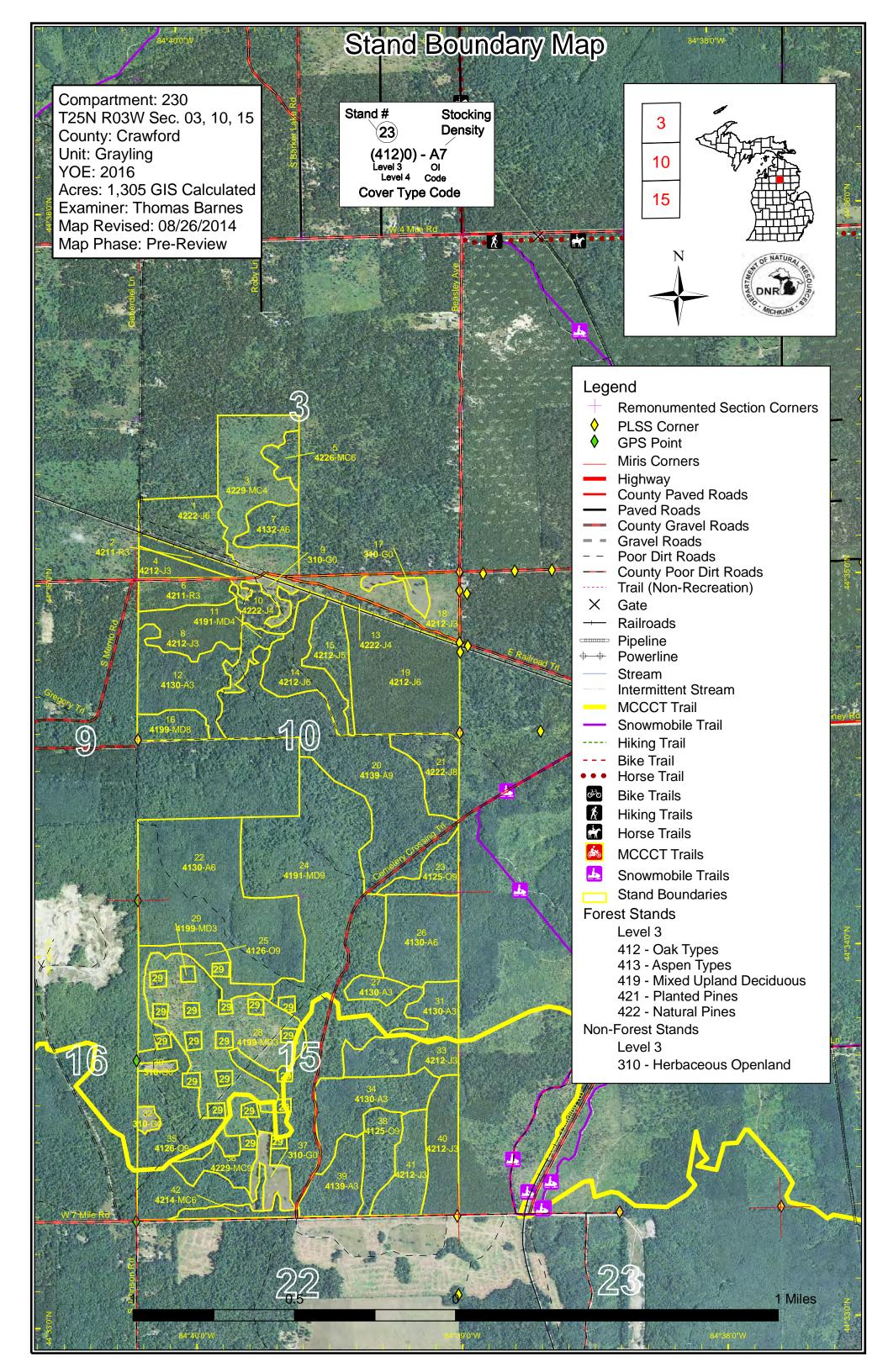
Access throughout the compartment is adequate. 5-Mile Road, 7- Mile Road and Beasley Ave are county roads and maintained year round. Multiple 2-tracks provide good access throughout the rest of the compartment, and with the current cover, type fire protection should be adequate. There is no body of water which can be used to re-supply water tankers located in the compartment. The best source would be the Beaver Creek Fire Station located at the corner of Old 76 and 7-Mile Road.

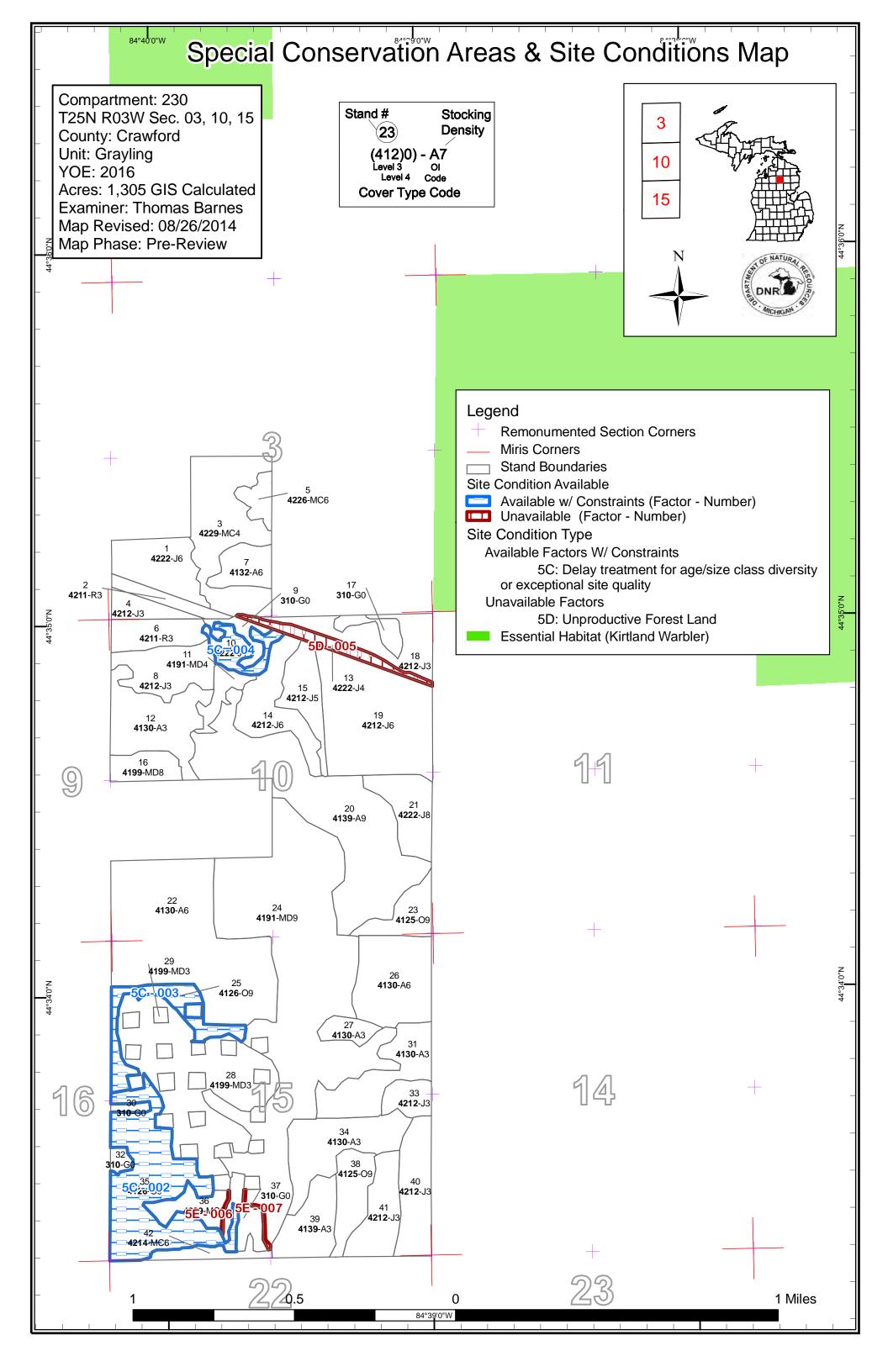
Additional Compartment Information:

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 Thomas Barnes : Examiner

Compartment 230 Year of Entry 2016



						Age (Class									
	/	6.0	6 ⁷ 9	10 ⁻²¹	60°.	40 ⁻⁶²		80°.	10'	40 ¹		601.00L	61101,	× 20 51	A AS	
Aspen	0	38	96	155	120	0	0	0	0	0	0	0	0	0	410	
Herbaceous Openland	30	0	0	0	0	0	0	0	0	0	0	0	0	0	30	
Jack Pine	26	32	61	120	27	0	44	0	0	0	0	0	0	0	311	
Mixed Upland Deciduous	76	28	0	0	8	0	0	12	0	200	0	0	0	0	325	
Natural Mixed Pines	0	0	8	53	0	0	0	0	0	12	0	0	0	0	74	
Oak	0	0	0	0	0	0	0	18	0	105	0	0	0	0	123	
Planted Mixed Pines	0	0	0	0	0	0	8	0	0	0	0	0	0	0	8	
Red Pine	0	0	25	0	0	0	0	0	0	0	0	0	0	0	25	
Total	133	99	190	329	155	0	52	30	0	317	0	0	0	0	1305	



And	Grayling Mgt. Unit Year of Entry 2016							Compartment Total Compartment Acres:	
			Acr	es by Tre	eatment Ty	vpe			
	Commercial Harvest - 257	Tree Planting - 43		Other - 0)				
	Habitat Cut - 0	Opening Maintenar	nce - 23						
			Co	ver Type	e by Harve	st Method			
					1. 18				
			Clear Clear Clear	Color Color	Contraction of the second	Linin Store Lo	Se Contraction		
	Mixed Upland Decidu	ious	200 0	Color Color Color Color	CTOS STORE	1,000 500 1,00 1,00 1,00 1,00 1,00 1,00	AL SS AL		
	Mixed Upland Decidu Natural Pines	lous			<u> </u>		A POSS		
	· · · ·	ious	200 0	0	0 0	0 200	A CONTRACTOR OF		
	Natural Pines	lous	200 0 34 0	0	0 0	0 200 0 34			

S t			Grayl	ing Mgt. Unit	Repo			nents Prescri iting Factor	bed	Compartment: 230 Year of Entry 2016	DR NATURAL RESOURCE
a n d		ment me	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
21	722300	21-Cut	22.0	42220 - Natural Jack Pine	Medium Density Lo	67 g	81-110	Harvest	Clearcut	4211 - Planted Red Pine	Cmpt. Review Proposal
Preso Spece		Final har route.	vest the sta	and without retention	n due to size.	Include	snowmot	oile trail specs as	Cemetary Crossin	g Trail might be needed	for a haul
<u>Other</u> Comr			ess to this ment 231.	sale is Cemetary Cr	ossing Trails	, portions	s of this se	easonal road is us	sed as a snowmob	ile trail NE of this stand	in
<u>Next</u> Steps	<u>s:</u>	Site prep	as needeo	l including herbicidir	ng, trench an	d plant to	o red pine.	If planting fails r	eplant to jack pine	l.	
<u>Propos</u> Start D		0/01/201	15								
23	722300)23-Cut	14.9	4125 - Black, N. Pin Oak	High Density Lo	93 g	81-110	Harvest	Clearcut	4199 - Other Mixed Upland Deciduous	Cmpt. Review Proposal
Presc Spece				cies with not retention Trail might be used				nclude grouse dru	umming log spec a	as well as snowmobile tra	ail spec as
<u>Other</u> Comr	_	,	ess to this ment 231.	sale is Cemetary Cr	ossing Trails	, portions	s of this se	easonal road is us	sed as a snowmob	ile trail NE of this stand	in
<u>Next</u> <u>Steps</u>	<u>s:</u>	Monitor t oak.	he success	of regeneration dur	ing the next	treatmen	t period.	Will accept a moo	derate to well stocl	ked stand of mixed aspe	n, maple and
<u>Propos</u> Start D		0/01/201	15								
24	722300)24-Cut	200.0	4191 - Mixed Upland Deciduous with Conifer	High Density Lo	94 g	81-110	Harvest	Clearcut with Reserves	4199 - Other Mixed Upland Deciduous	Cmpt. Review Proposal
Presc Specs	<u>s:</u>	islands v	vill be part o		s. Do not ha	rvest red	or white p	oine. Include drur	nming log spec, m	roughout for mast produ notorcycle trail spec and CT Trail.	
<u>Other</u> Comr	<u>ments:</u>	through t		only access to this sa						ompete better. MCCCT sed as a snowmobile tra	
<u>Next</u> Steps		Monitor t	he success		•			•		ate to well stocked stand	d of oak,
Propos Start D		0/01/201	15								
36	722300)36-Cut	12.4	42290 - Natural Mixed Pine	High Density Lo	97 g	141-170	Harvest	Clearcut	4211 - Planted Red Pine	Cmpt. Review Proposal
Preso Spece				cies without retentic ail spec if MCCCT is				e low stump and c	hipping spec to he	Ip facilitate the planting	operation.
<u>Other</u> Comr	nents:	The MC	CCT trail ru	ns close to the stand	d boundary, r	may need	d to add th	nis spec to the sal	e if traill is inside s	stand boundary.	
<u>Next</u> Steps	<u>s:</u>	Site prep	as needeo	l, trench and plant to	o red pine.						
Propos Start D		0/01/201	15								

S t			Grayl	ing Mgt. Unit	Repo			nents Prescrit ting Factor	bed	Compartment: 230 Year of Entry 2016	DR NATURAL CONSTRUCTION
a n d		atment ame	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
42	72230)042-Cut	8.1	42140 - Planted Mixed Pine	High Density Pole	67		Harvest	Clearcut	4211 - Planted Red Pine	Cmpt. Review Proposal
Pres Spec				cies without retention					de low stump and	I chipping spec to help v	vith the planting
<u>Othe</u> <u>Com</u>	<u>r</u> ments:	Sale bor	ders 7 mile	rd.							
<u>Next</u> Step		Site pre	o as needed	, trench and plant to	red pine.						
Propo Start		10/01/20	15								
17	_	2230017- onFor	6.7	3102 - Grass				Non-Forest Management	Mowing	3102 - Grass	Cmpt. Review Proposal
Pres Spec	•			aintenance, as neede nd herbicide applicati		include o	disking, fe	rtilizing, food plot s	seeding, no-till pr	airie grass drill seeding,	mowing,
<u>Othe</u> <u>Com</u>	<u>r</u> ments:										
<u>Next</u> Step		Monitor	during next	inventory cycle and c	ontinue to r	maintain v	wildlife ope	ening by utilizing a	III available tools.		
<u>Propo</u> Start		Unspecif	ied								
30	_	2230030- onFor	2.2	3102 - Grass				Non-Forest Management	Mowing	3102 - Grass	Cmpt. Review Proposal
Pres Spec				aintenance, as neede nd herbicide applicati		include o	disking, fe	rtilizing, food plot s	seeding, no-till pr	airie grass drill seeding,	mowing,
<u>Othe</u> <u>Com</u>	<u>r</u> ments:										
<u>Next</u> Step		Monitor	during next	inventory cycle and r	naintain wild	dlife open	ing as nee	eded.			
Propo Start		Unspecif	ied								
32	_	2230032- onFor	3.0	3102 - Grass				Non-Forest Management	Mowing	3102 - Grass	Cmpt. Review Proposal
Pres Spec				aintenance, as neede nd herbicide applicati		include o	disking, fe	rtilizing, food plot s	seeding, no-till pr	airie grass drill seeding,	mowing,
<u>Othe</u> Com	<u>r</u> ments:										
<u>Next</u> <u>Step</u>		Monitor	during next	inventory period and	maintain op	ening as	needed.				
<u>Propo</u> <u>Start</u>		Unspecif	ied								
37	_	2230037- onFor	11.1	3102 - Grass				Non-Forest Management	Mowing	3102 - Grass	Cmpt. Review Proposal
Pres Spec				aintenance, as neede nd herbicide applicati		include o	disking, fe	rtilizing, food plot s	seeding, no-till pr	airie grass drill seeding,	mowing,
<u>Othe</u> <u>Com</u>	<u>r</u> ments:										
<u>Next</u> Step		Monitor	during next	inventory cycle and r	naintain ope	ening as r	needed.				
Propo Start		Unspecif	ied								

S t		Grayl	ing Mgt. Unit	Repo		Treatm No Limit	Compartment: 230 Year of Entry 2016	DNR DNR		
a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status

Total Treatment Acreage Proposed: 280.4

S t						eatment Site Con		l with	Compartment: 230 Year of Entry 2016	DNR DV RECEIPTION
a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
		#Type!	#Type!							
Preso Spec Other Comm Next Steps Propo	<u>nent:</u> <u>s:</u>									
	Date: #Type!									
<u>Limiti</u>	ng Factor									
A	Total Treatme creage Propose		0							

Grayling Mgt. Unit

Thomas Barnes : Examiner

Compartment 230 Year of Entry 2016

Availability for Management

		nanagomont					
Total	Acres	Acres		Domina	nt Site	e Cone	ditions
Acres	Available	Not Available		No	5E	5D	5C
410	410		Aspen	410			
311	301	10	Jack Pine	289		10	12
325	324	1	Mixed Upland Deciduous	324	1		
73	73	1	Natural Mixed Pines	73	1		
123	123		Oak	33			90
8	8		Planted Mixed Pines	8			
25	25		Red Pine	25			
1,275	1,264	11	Total Forested Acres	1,162	1	10	102
	99%	1%	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 ond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
002	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	70				
-	mments: Id this stand for a	another 10 years to allow adva	nced oak	regeneration time to bec	ome even more establishe	J.	
003	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	20				
	mments: Id off for another	YOE cycle as large area adja	cent to st	and was recently treated.			
004	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	12				
	mments: Id for another 10	years then final harvest and re	eplant.				

Grayling Mgt. Unit

Report 5 – Site Conditions

Thomas Barnes : Examiner

Compartment 230 Year of Entry 2016

005	Not Available	5D: Unproductive Forest Land	10
N			two track, leave as is and let nature take its course. Stand could have been easily included in the treatment
tł	nat took place just	to the north, it was not included	for some reason.
006	Not Available	5E: Long Term Retention	1
-	comments: uffering the wildlife	e opening, as per wildlife's reque	est.
007	Not Available	5E: Long Term Retention	1
-	omments: uffering wildlife op	ening, as per wildlife's request.	



Report 6 – PROPOSED SPECIAL CONSERVATION AREA* (SCA) DETAILS

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

SCA Name SCA Category Detail Type Recommendation Acres

Comments



Report 7 – EXISTING SPECIAL CONSERVATION AREA DETAILS

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

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 physical sites of cultural and historical significance that may occur upon bottomlands. They include thousands of Native American settler and British outposts, nineteenth century logging camps, mines the Great Lakes, there are shipwrecks and other remains docur be identified by Natural heritage data from the State Historic Pre- this compartment will be implemented in such a manner as to m the sensitive nature of this information, no further detail about lo	terrestrial areas and Great Lakes ments and burial sites, as well as French and homesteads. Beneath the waters of nenting the maritime trade. Such sites may eservation Office. Proposed treatments in naintain the integrity of these sites. Due to
HCVA	Designated Critical Habitat	Critical habitat areas are established via a consultative and coo U.S. Fish and Wildlife service for the recovery of threatened and 365, Endangered Species Protection, of the Natural Resources PA 451, and the Federal Endangered Species Act of 1973. This species plans in various stages of review. As of now only two e Plover Habitat.	d endangered species, as governed by Part and Environmental Protection Act, 1994 is an active program, with proposed

S t		Mgt. Unit		Report 8	– Forested	I Stands Compartment: 230 Year of Entry: 2016
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	42220 - Natural Jack Pine	High Density Pole	26.6	43		Jack pine stand with mixed species associated within the stand. Lower end of canopy closure. This stand has a good representation of diameters, dominate diameter is of the pole size category. Tree form not that great. This stand is PArVHa/PArVVb.
2	42110 - Planted Red Pine	High Density Sapling	8.4	22		Red pine plantation with oak and cherry scattered throughout stand . No ground cover was recorded due to snow. Clearcut in 1988 and planted in 1991 as per OI notes. This stand is PArVHa/PArVVb.
3	42290 - Natural Mixed Pine	Low Density Pole	53.5	38	1-50	9/5/07- TS-720160601 "5 and Tracks Jack" Scattered red pine and oak left Everything 6" and up was taken. Stand is being classified as pole because of residual left from harvest. Regen is heavy to cherry with some jp seeding in as well as some oak and aspen. Snow depth made it difficult to see how much jack pine was present. This stand is PArVHa/PArVVb. Regen survey was conducted in this stand for Old Ol 2, MO jack pine survey failed, passes on other species, heavy to cherry.
4	42120 - Planted Jack Pine	High Density Sapling	9.3	22		Jack pine plantation with red pine, oak and cherry scattered throughout stand. No ground cover was recorded due to snow. Clearcut in 1988 and planted in 1991 as per OI notes. This stand is PArVHa/PArVVb.
5	42260 - Natural Pine, Mixed Deciduous	High Density Pole	7.7	28		Small stand with jack pine and aspen. Stand also has red pine and small amount of oak. Understory was primarily cherry with other associated species. No ground cover recorded because of snow. This stand is PArVHa/PArVVb.
6	42110 - Planted Red Pine	High Density Sapling	16.6	21		Stand harvested in 1988 and replanted in 1991. Stand is primarily Red Pine with a strip of planted Jack Pine of about 2 acres. Initial planting was in 1991, red pine was replanted in 1992 because of heavy mortality. Scattered associated species found throughout the stand. No ground cover was recorded due to snow conditions. This stand is PArVHa/PArVVb.
7	4132 - Aspen, Jack Pine	High Density Pole	13.8	42		Stand of pole sized aspen with jack pine and other associated species. Stand was not treated when surrounding stand was harvested. This stand is PArVHa/PArVVb.
8	42120 - Planted Jack Pine	High Density Sapling	25.5	22		Cut in 1988 and planted in 1991. Jack pine plantation with good density, some oak is scattered throughout the stand. No understory to report and ground vegetation was covered by snow. East half of stand is PArVHa/PArVVb and West half is PArVVb.
10	42220 - Natural Jack Pine	Low Density Pole	12.3	62		Open stand of pole sized jack pine surrounding an open area, form of jack pine is typical of open grown pine bushy short and of poor form. This stand is PVCd.
11	4191 - Mixed Upland Deciduous with Conifer	Low Density Pole	8.4	42		Open grown stand of mixed upland species dominated by jack pine with strong component of cherry and aspen. No ground cover due to snow depth.

S t	Grayling	Grayling Mgt. Unit				I Stands Compartment: 230 Year of Entry: 2016
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
12	4130 - Aspen	High Density Sapling	38.3	25		Nice young aspen stand with scattered log/Xlog red pine. Stand was harvested in 1988. Stand is primarily PArVVb with a couple of areas that are PArVHa/PArVVb.
13	42220 - Natural Jack Pine	Low Density Pole	9.9	62		Narrow strip between railroad tracks and two track, previous Ol listed stand as non-forested. There is enough tree cover to classify as forested, this could have been left as retention for Old Stand 18 harvested in 2007. Stand also has a history of burning. Stand is primarily PVCd with small areas of PArVHa/PArVVb.
14	42120 - Planted Jack Pine	High Density Pole	27.9	33		Jack pine plantation with an area of XLog Red Pine, stand is denser then the adjacent Jack Pine with smaller DBH. Stand was harvested 1975 and replanted in 1980. Northern tip is PVCd, middle portion is PArVHa/PArVVb and the bottom is PArVVb.
15	42121 - Planted Jack Pine, Mixed Deciduous	Medium Density Pole	18.3	32		Jack pine stand at lower end of canopy closure then the stands on either side, diameter is a little larger too. Stand also has areas of little to no jack pine as well as small pockets of quaking aspen. Stand cut in 1975 and plated in 1980, poor survival per old OI notes. Stand is primarily PArVHa/PArVVb.
16	4199 - Other Mixed Upland Deciduous	Medium Density Log	12.0	77	81-110	Mixed stand of log/pole sized hardwoods. Good number of standing and down dead oak, remaining oak is of poor quality. White pine regen in the east end with a few large red pine. Three BA swings were taken with a stand average of 94. Site index averaged 53. West half of stand is PArVHa/PArVVb and East half is PArVVb.
18	42120 - Planted Jack Pine	High Density Sapling	26.3	5		Good regeneration approximately 3-4 feet tall with oak, cherry and aspen scattered. There is a little portion of stand that runs along 5 Mile Rd that has pole sized trees, area less then a tenth of an acre. No ground cover recorded due to snow. Sale was harvested in 2006/07 under TS720160601 "5 and Tracks Jack". Planted Jack Pine May, 2008 per C72-567. Stand is primarily PVCd.
19	42120 - Planted Jack Pine	High Density Pole	74.0	33		Very dense jack pine plantation with no reportable sub canopy. Very little presence of other species within stand was well. No ground cover recorded due to snow. Harvested in 1975 and planted in 1980. North half of stand is PArVHa/PArVVb, Southern half is PArVVb.
20	4139 - Aspen, Mixed Deciduous	High Density Log	106.3	43	81-110	Aspen stand with good mixture of associated species. Ten BA swings were taken with an average BA of 90 and average Site index was 56. Northwest portion of stand is PArVVb the remaining portion is PArVHa/PArVVb.
21	42220 - Natural Jack Pine	Medium Density Log	22.0	67	81-110	Open grown stand of jack pine with clumps of aspen. Also areas of oak and cherry. Stand is not of good form. Three BA swings were done, average for stand was 85, jp 50, aspen 20, red pine 10 oak and cherry 5. This stand is PArVHa/PArVVb.

S t	Grayling Mgt. Unit			Report 8	– Forested	Stands Compartment: 230 Year of Entry: 2016
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
22	4130 - Aspen	High Density Pole	114.5	36		Nice aspen stand just coming into the pole size class. Gentle to rolling terrain with a nice mixture of associated species. Good component of oak in this stand. Final Harvest in 1975. This stand is PArVHa/PArVVb.
23	4125 - Black, N. Pin Oak	High Density Log	14.9	93	81-110	Stand was thinned in 1996, stand has started to slow its growth or response from thinning. Very little oak in understory. Well established aspen and red maple regeneration, some of aspen regen is starting to die. Three BA swings were taken with stand average of 85 and average site index of 55. This stand is PArVHa/PArVVb.
24	4191 - Mixed Upland Deciduous with Conifer	High Density Log	200.0	94	81-110	Stand is a mixture of oak and associated species, In areas prior treatments have removed aspen, red maple and some oak, leaving stands of pure oak with a very heavy understory of aspen and maple with little to no oak. Other portions of stand have aspen and maple as a component of the overstory with mixed pine. Stand BA averaged 108 from the 10 BA swings, Oak is had the highest average at 75, maple was 15, aspen 10 and mixed conifer made up the rest. Oak was white oak and what looks like hybrid red and black oak. Rolling to somewhat steep terrain. Site index averaged 56. This stand is PArVHa/PArVVb.
25	4126 - White, Black, N. Pin Oak	High Density Log	19.9	95	81-110	Small sawlog sized stand roughly 10" dbh, understory very park like. Adjacent stand was recently clearcut with good oak sprouting I would think this stand would respond in the same way. This stand is PArVHa/PArVVb.
26	4130 - Aspen	High Density Pole	40.6	38		Nice pole sized aspen stand. Stand was cut in 1976. This stand is PArVHa/PArVVb.
27	4130 - Aspen	High Density Sapling	7.6	16		Nice young aspen stand. Harvested in 1997. This stand is PArVHa/PArVVb.
28	4199 - Other Mixed Upland Deciduous	High Density Sapling	76.4	5		Stand has small one acre 5 spot cuts mixed within this stand, these are listed as stand 27. Heavy browse on all regen especially oak regeneration. Northern portion of stand has a higher density of all species regen. No ground cover do to snow. FINAL HARVEST 2008: TS720170601 "Scooter Oak". This stand is PArVHa/PArVVb. Regen survey was conducted for Old OI 138 and this stand passes the regen survey for the MO of oak.
29	4199 - Other Mixed Upland Deciduous	High Density Sapling	28.1	17		Serious of patch cuts harvested in 1997. This stand is PArVHa/PArVVb.
31	4130 - Aspen	High Density Sapling	30.9	17		Young aspen stand which has density, signs of browse. Stand was harvested in 1996. This stand is PArVHa/PArVVb.
33	42120 - Planted Jack Pine	High Density Sapling	10.0	13		Jack pine was hand planted by contractor in 2000 under FTP72- 0397. This stand is PArVHa/PArVVb.
34	4130 - Aspen	High Density Sapling	35.6	25		Young aspen stand regenerating nicely. Stand harvested in 1988. This stand is PArVHa/PArVVb.

S t	Grayling Mgt. Unit			Report 8	– Forested	Stands Compartment: 230 Year of Entry: 2016
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
35	4126 - White, Black, N. Pin Oak	High Density Log	70.0	94	81-110	Stand is not as dense as Stand 45, good advanced oak regeneration coming up in this stand. Areas of heavy Gypsy Moth egg masses. Southern portion of stand has the pine component and white oak has a good presence in this stand. There are pockets of regen from wind event that occured in 93/94. Portion of Stand was last treated in 1995. This stand is PArVHa/PArVVb.
36	42290 - Natural Mixed Pine	High Density Log	12.4	97	141-170	Stand of mixed red and white pine, pockets of pure red and white pine with some hardwoods mixed in between them. Average BA was 141. Site indexed averaged 63. This stand is PArVHa/PArVVb.
38	4125 - Black, N. Pin Oak	High Density Log	18.2	71	51-80	Heavy to scotch pine in the southern portion of stand. All aspen was removed in 1996. Three BA swings were taken with a stand average of 75. Average site indext was 54. This stand is PArVHa/PArVVb.
39	4139 - Aspen, Mixed Deciduous	High Density Sapling	22.1	25		Medium to heavy scotch pine along 7 mile rd. Stand harvested in 1988. This stand is PArVHa/PArVVb.
40	42120 - Planted Jack Pine	High Density Sapling	26.6	22		Stand was harvested in 1987 and planted in 1991. This stand is PArVHa/PArVVb.
41	42120 - Planted Jack Pine	High Density Sapling	22.3	13		Jack pine was hand planted by contract crew in 2000 under FTP 72-0397. This stand is PArVHa/PArVVb.
42	42140 - Planted Mixed Pine	High Density Pole	8.1	67		Mixed stand of jack and scotch pine. This stand is PArVHa/PArVVb.

Grayling Mgt. Unit

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Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
9	3102 - Grass	7.0	No	Unspecified	Open stand with some tree species present, predominately open grown jack pine. This stand is PVCd.
17	3102 - Grass	6.7	No	Medium	As per old OI notes building evidence either old homestead or railroad building. Too much snow to see any traces of building during field visit. Stand is primarily PVCd.
30	3102 - Grass	2.2	Yes	Medium	Wildlife opening. This stand is PArVHa/PArVVb.
32	3102 - Grass	3.0	Yes	Medium	Managed wildlife opening. This stand is PArVHa/PArVVb.
37	3102 - Grass	11.1	Yes	Medium	Could have been some kind of homestead as per old OI notes. Snow depth prohibited seeing any evidence of foundations. This stand is PArVHa/PArVVb.