

# **Compartment Review Presentation**

**Grayling Forest Management Unit** 

Compartment 199
Entry Year 2015
Acreage: 530

**County Crawford** 

Management Area: Camp Grayling

**Revision Date:** 07/22/2013

**Stand Examiner:** Patrick Mohney

**Legal Description:** 

T25N R04W, Sections 1, 2, 3, (Beaver Creek Township)

### **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 them while facilitating the military and their needs.

### Soil and topography:

The soil types within this compartment are Grayling and Roselawn sands. The terrain is flat with the exception of section 3 which has rolling hills.

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

The compartment consists entirely of State Military Board Land. The majority of the compartment is private land consisting of seasonal and permanent homes. The Fox Run golf course borders the eastern edge of Section 1 along Oak Road. The Military Board Land in the SWNE is land locked and cannot be accessed for management. Land in Section 3 is part of the Hanson Reserve.

### **Unique Natural Features:**

Secretive Locust (Appalacia arcana) a species of state special concern is listed for the area.

### **Archeological, Historical, and Cultural Features:**

There are known concerns within the compartment. All proposed management activities have taken these concerns into consideration.

#### **Special Management Designations or Considerations:**

Section 3 is part of the Hanson Military Reserve. This land was gifted to the State in 1913 (Act 172) by Mr. Hanson for the following purposes: 1) as a permanent encampment and maneuvering ground for the military 2) as a game preserve for the breeding and protection of game 3) as a forest reserve. The MDNR manages the natural resources on Hanson lands as long as management does not conflict with military needs. Hunting is prohibited on these lands. The military has designated some of the property in this compartment to be traded in order to consolidate property elsewhere.

#### **Watershed and Fisheries Considerations:**

No occurrences at this time.

#### Wildlife Habitat Considerations:

To maintain existing cover types and promote age class diversity where possible to improve habitat conditions for ruffed grouse, deer, and rabbits.

#### 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. Gravel pits are located in the area and potential is good on the upland areas. None of the compartment is currently leased for oil and gas due to Military Board ownership. The Compartment is located one mile northeast 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. Quicksilver is currently drilling new wells in the Detroit River 3 Zone in adjacent compartments. No well activity has occurred in this compartment.

#### **Vehicle Access:**

The compartment can easily be accessed from the following County Roads: Military, Four Mile, Five Mile, Oak, King, Birchwood, and Beaver. The designated snowmobile trail can also provide access to the interior of several stands. A two track has been created and maintained by an adjacent private property owner which leads from the snowmobile trail to the

property owner's residence. Remedial action has been taken and the property owner has complied to cease all maintenance activities on Military Board Land. It is recommended that this new two track be blocked using posts. New roads constructed in the future for management activities will be blocked. No existing roads need to be closed at this time. All new roads created through management activities are to be closed upon completion.

#### **Survey Needs:**

The possibility for survey needs exist in the compartment.

### **Recreational Facilities and Opportunities:**

A designated snowmobile trail runs through section 1. Other recreational opportunities are hunting, mushrooming, and other forms of dispersed recreation.

#### Fire Protection:

The compartment contains very little high hazard fuel types. Sections 1 and 2 are surrounded by paved and/or improved gravel roads. Road access is good throughout compartment.

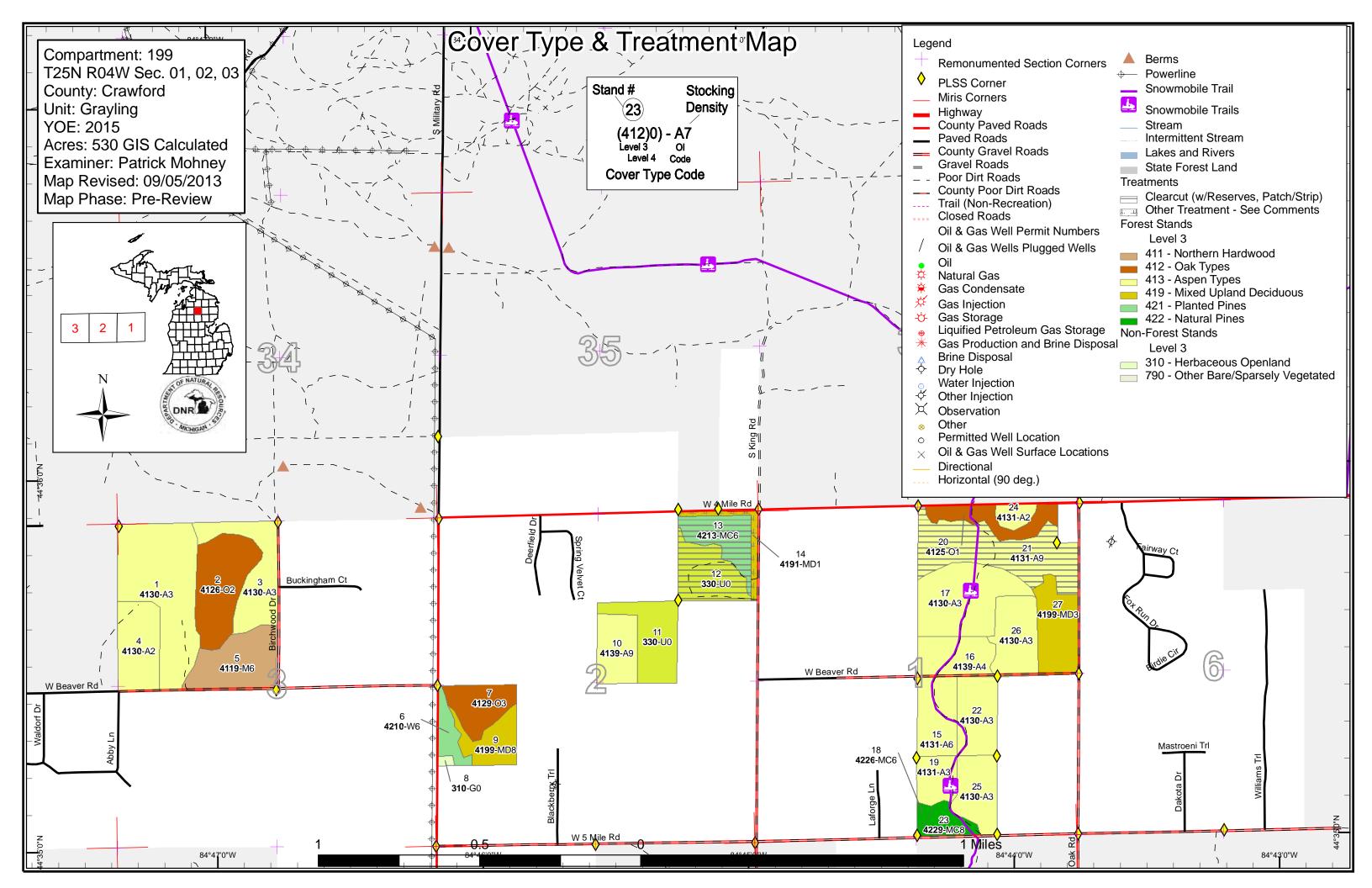
## **Additional Compartment Information:**

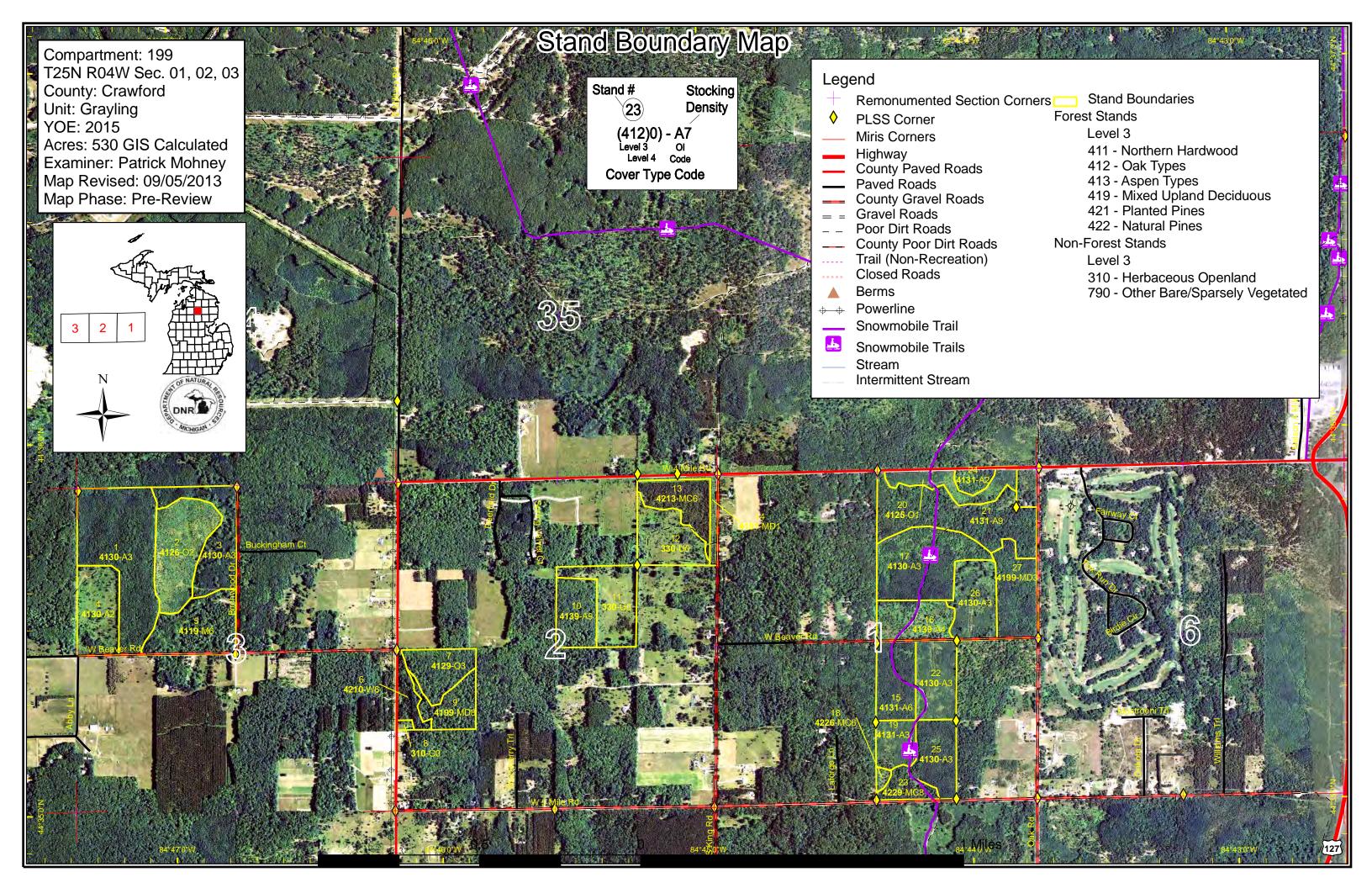
The following reports from the Inventory are attached:

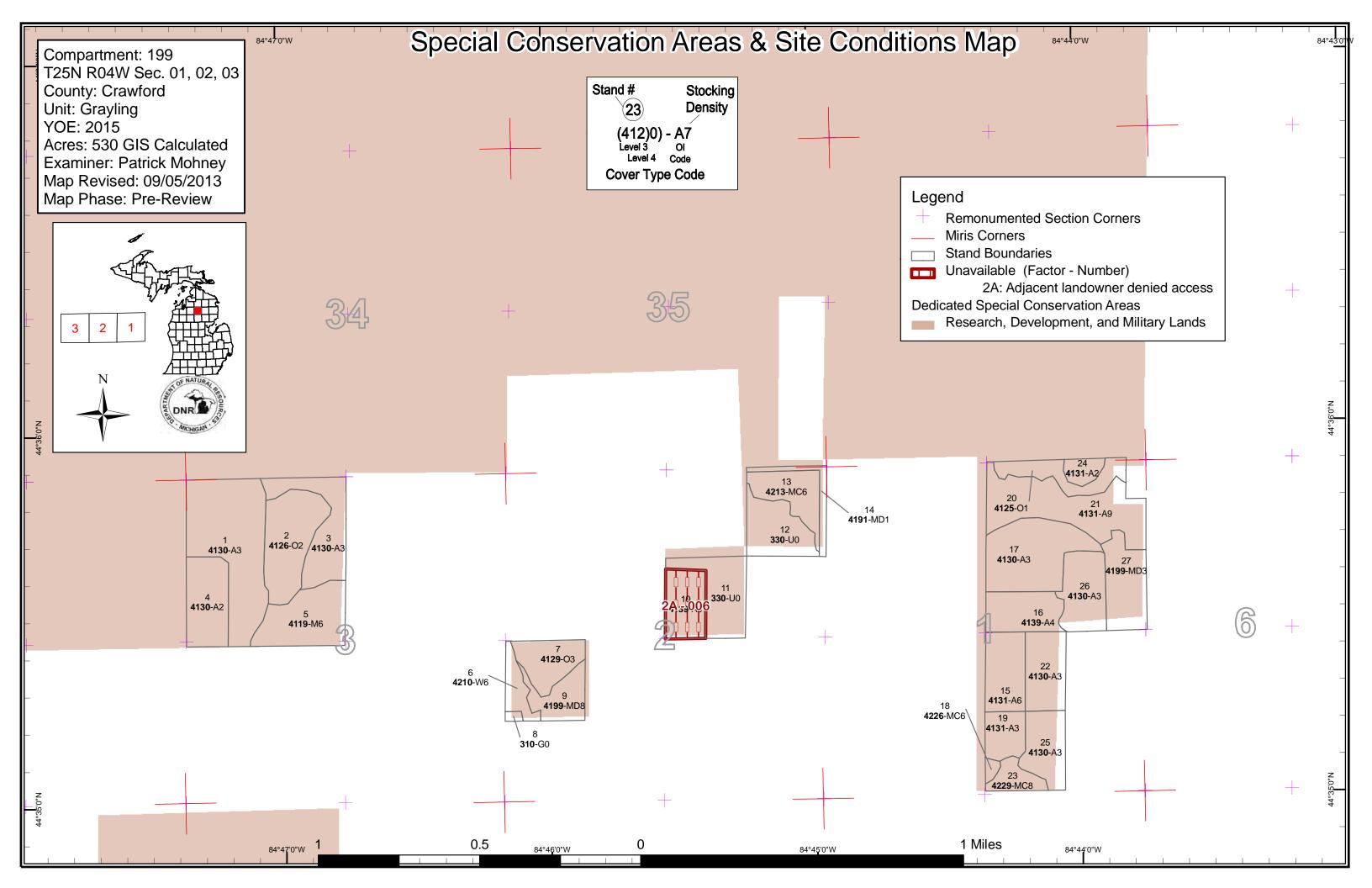
Total Acres by Cover Type and Age Class Cover Type by Harvest Method Proposed Treatments – No Limiting Factors Proposed Treatments – With Limiting Factors Stand Details (Forested and Nonforested) Dedicated and Proposed Special Conservation Areas Site Condition Details

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







patrick mohney: Examiner

**Grayling Mgt. Unit** 



Compartment 199 Year of Entry 2015

Age Class																
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Aspen	54	47	137	19	0	0	0	0	44	0	17	0	0	0	318	Ī
Herbaceous Openland	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
Low-Density Trees	44	0	0	0	0	0	0	0	0	0	0	0	0	0	44	
Mixed Upland Deciduous	6	0	22	0	0	0	14	0	0	0	0	0	0	0	42	
Natural Mixed Pines	0	0	2	0	0	0	0	8	0	0	0	0	0	0	10	
Northern Hardwood	0	0	0	0	0	0	28	0	0	0	0	0	0	0	28	
Oak	14	48	0	0	0	0	0	0	0	0	0	0	0	0	62	
Planted Mixed Pines	0	0	17	0	0	0	0	0	0	0	0	0	0	0	17	
White Pine	0	0	8	0	0	0	0	0	0	0	0	0	0	0	8	]
Total	120	94	186	19	0	0	42	8	44	0	17	0	0	0	530	]



## **Report 2 – Proposed Treatment Summaries**

Grayling Mgt. Unit Year of Entry 2015

Compartment 199
Total Compartment Acres: 530

## **Acres by Treatment Type**

Commercial Harvest - 82

Tree Planting - 0

Other - 6

Habitat Cut - 0

Opening Maintenance - 0

**Cover Type by Harvest Method** 1.150 S. 150 M. Zinin S 44 44 Aspen Types 21 **Low-Density Trees** 0 0 0 0 21 0 17 0 0 0 0 17 **Planted Pines** 0 82 Total 82 0 0

Grayling Mgt. Unit

#### Report 3 -- Treatments Prescribed with No Limiting Factor

Compartment: 199 Year of Entry 2015

DEPARTMEN	DNR DNR
\	MICHIGAN

a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
13	72199013-Cut	17.2	42130 - Planted Scotch Pine	High Density Pole	25		Harvest	Clearcut		Cmpt. Review Proposal

Prescription Final harvest stand, to remove scotch pine from the stand. Leave no retention. Cut everything.

Specs:

S

Other Stand is basically unmerchantable as far as size goes. The objective is to remove the scotch pine and prepare the site for planting

Comments:

<u>Next</u> Burn, roller chop, herbicide, do whatever it takes to beat back the scotch pine for planting. Trench and plant to red pine.

Steps:

<u>Proposed</u>

Start Date: 10/01/2013

72199021-Cut 4131 - Aspen, Oak High 80 51-80 Harvest Clearcut 4131 - Aspen, Oak Cmpt. Review Proposal Density Log

Prescription Final harvest stand. Objective is to regenerate aspen and oak. There is oak wilt across street so I would like to maximize regeneration by leaving no retention. Limit snowmobile trail crossing to one location. Use Drumming Log Spec. Specs:

<u>Other</u> Comments:

<u>Next</u> Being a final harvest, this stand requires a regen check. Acceptable regen is oak and aspen mix.

Steps:

<u>Proposed</u>

Start Date: 10/01/2014

NF\_72199012-20.9 3303 - Mixed Low Harvest Clearcut with Cmpt. Review Proposal Cut **Density Trees** Reserves

<u>Prescription</u> Final harvest stand. Do not cut any apple trees. Cut everythign else, remove as much from the site as possible.

Specs:

Other Comments:

Burn, herbicide, roller chop, etc... Use any site prep method necessary to combat the scotch pine and prepare site for planting to Red Pine. <u>Next</u>

Trench and plant to Red Pine. Trench around aspen clones and apple trees as best as you can.

Steps: **Proposed** 

Start Date: 10/01/2013

72199014-Cmpt. Review 14 5.9 4191 - Mixed Low 6 Other Unspecified **Upland Deciduous** Other Density Proposal with Conifer Sapling

Prescription Roller chop or herbicide stand to prepare site to be planted to Red pine. Protect Apple trees.

Specs:

Stand was supposedly planted to Jack pine, plantation has all but failed and scotch pine is moving into the stand from stand 13. <u>Other</u>

Comments:

Trench stand with stands 12 and 13. Trench around apple trees.

<u>Next</u> Steps:

**Proposed** 

10/01/2013 Start Date:

**Total Treatment** 

88.4 Acreage Proposed:

Grayling Mgt. Unit Report 4 -- Treatments Prescribed with Compartment: 199 a Limiting Factor s Year of Entry 2015 t **Treatment** Acres CoverType Size Stand ВА **Treatment Treatment Cover Type Approval** n Method Objective Status Name Density Age Range Type #Type! #Type! **Prescription** Specs: Other Comment: **Next** Steps: Proposed #Type!

Total Treatment

Start Date: # Limiting Factor

Acreage Proposed: 0.0

# **Report 5 – Site Conditions**

**Grayling Mgt. Unit** 

Patrick Mohney: Examiner

Compartment 199 Year of Entry 2015

## **Availability for Management**

Total	Acres	Acres		Domina	nt Site	Conditions
Acres	Available	Not Available		No	2A	
318	301	17	Aspen	301	17	
42	42		Mixed Upland Deciduous	42		
10	10		Natural Mixed Pines	10		
28	28		Northern Hardwood	28		
62	62		Oak	62		
17	17		Planted Mixed Pines	17		
8	8		White Pine	8		
485	468	17	Total Forested Acres	468	17	
	96%	4%	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	
006	Not Available	2A: Adjacent landowner denied access	17					
C	omments:							
Stand has been prescribed in the past and access has been denied. No legal access.								

Grayling Mgt. Unit

Compartment: 199 Year of Entry: 2015



## 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				

Grayling Mgt. Unit

Compartment: 199
Year of Entry 2015



# 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.

Conservation 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 to bottomlands. They include thousands of Native American settler and British outposts, nineteenth century logging camps, mines at the Great Lakes, there are shipwrecks and other remains documbe identified by Natural heritage data from the State Historic Prethis compartment will be implemented in such a manner as to me the sensitive nature of this information, no further detail about lo	errestrial areas and Great Lakes ments and burial sites, as well as French and homesteads. Beneath the waters of menting the maritime trade. Such sites may eservation Office. Proposed treatments in aintain the integrity of these sites. Due to					
Military Areas inclu Area High Wild		These areas provide facilities and lands specifically dedicated for research, or other purposes. They include the 5,847 acre Forest Fire Experiment Station, the 12,000 acre Houghton Lake Wildlife Research Area, the Beaver Islands Archipelago Wildlife Research Area (that includes most of Garden Island, all of High and Hog Islands, all state owned land on Beaver, South Fox and North Fox Islands), the Cusino Wildlife Research Area, the 3,000 acre Hunt Creek Fisheries Research Station, the 125 acre Wyman Nursery, and over 144,000 acres of Military Lands.						

Graylin S t		g Mgt. Unit		Report 8	– Forested	Stands Compartment: 199 Year of Entry: 2015
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	4130 - Aspen	High Density Sapling	56.3	25		Excellent aspen regeneration. Some small oak in the understory. Some larger diameter aspen in the SE corner of the stand, looks like it was excluded from the original sale area.  Sale was cut in 88.
2	4126 - White, Black, N. Pin Oak	Medium Density	31.2	13		PARVHA/PARVBB. Stand looks to have been cut in the last 10-20 years. Oak is regenerating nicely in some patches. There are some signs of browse throughout. Some larger diameter oak was left throughout stand from sale. Looked at it with B. Piccolo.
3	4130 - Aspen	High Density Sapling	25.5	17		PARVHA/PARVBB. Stand was cut in 1995 (041-95-01). Stand has regenerated nicely. Aspen is clean and straight. Some pine and oak were left from the sale.
4	4130 - Aspen	Medium Density	23.0	4		PARVHA/PARVVB. Stand harvested under contract 72-623-08-01 Wellington Oak/Aspen in summer of 2009. Residual BA of approx 30 (O7). Stand is regenerating slowly. Some large beech and oak were left from sale.
5	4119 - Mixed Northern Hardwoods	High Density Pole	28.2	65	1-50	PARVHA/PARVBB. Small diameter red maple and aspen were removed in 2003 according to old OI notes. Stand has some regeneration filling in, mostly red maple and beech. There is a very small amount of ash in the stand. Beech seems to be healthy. No signs of BBD. Some scotch pine along beaver rd. Probably seeded in from across the street. Not much has made it into the interior of the stand yet.
6	42100 - Planted White Pine	High Density Pole	8.1	28	1-50	Stand is very dense. Plantation of mostly white pine. Has some scotch pine mixed in. South end has some miscellaneous hardwoods. Just reaching pole sized at this time.
7	4129 - Mixed Oak	High Density Sapling	16.3	15		PARVHA/PARVBB. Stand was cut in 1988. Previous inventory indicates that the oak is regenerating slowly.
9	4199 - Other Mixed Upland Deciduous	Medium Density Log	13.8	65	1-50	PARVHA/PARVBB. Stand was shelterwooded in the last 20 years. Thick beech regen. Ash is failing. Some is alive, some is dead. Birch is declining in spots. Other places it seems to be doing well. Oak looks decent, not declining. Lots of nice large diameter stems throughout stand. Inventoried stand with B. Piccolo. A nice mixed stand.
10	4139 - Aspen, Mixed Deciduous	High Density Log	17.1	102		Log sized stand. Mature. Has been prescribed in the past. No legal acces to this stand. Cannot dispose of parcel because it is military land.
13	42130 - Planted Scotch Pine	High Density Pole	17.2	25		Very thick scotch pine with a little jack pine mixed within. Stand is seeding into adjacent stands.
14	4191 - Mixed Upland Deciduous with Conifer	Low Density Sapling	5.9	6		PARVHA/PARVBB. CUT IN 2006 SALE#720210501 "SUB ZERO ASPEN". Trenched and planted in 2007. If stand was planted to jack pine, very little has actually survived. Some scotch pine mixed in from plantation. Some larger diameter apple scattered through stand as well.

S	Grayling	Grayling Mgt. Unit				I Stands Compartment: 199 Year of Entry: 2015
t a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
15	4131 - Aspen, Oak	High Density Pole	19.3	27	1-50	PARVHA/PARVVB. Stand is growing well. Has some hypox in patches. Not throughout whole stand. Has just reached pole sized. Snowmobile trail passes through stand.
16	4139 - Aspen, Mixed Deciduous	Low Density Pole	18.6	35	1-50	PARVHA/PARVVB. Stand is pretty open. Previously typed a U1. Lots of old stumps. Cherry is poor condition. Aspen is in clumps throughout stand and could be cut. Would like to leave for soft snags. Stand would be beneficial to wildlife.  Snowmobile trail passes through stand.
17	4130 - Aspen	High Density Sapling	37.6	25		PARVHA/PARVVB. Stand was cut in 1988. Has good aspen regeneration. Also has some oak coming in underneath. Some hypox throughout stand. Snowmobile trail passes through stand.
18	42260 - Natural Pine, Mixed Deciduous	High Density Pole	1.6	23	1-50	PARVHA/PARVBB. Stand was previously typed as a U1. It has a fair amount of vegetation growing on it. It is now foresterd. Has a mix of pine. Jack pine is tall and straight. Looks to be growing well.
19	4131 - Aspen, Oak	High Density Sapling	11.5	7		PARVHA/PARVVB. CUT IN 2006 SALE#720210501 "SUB ZERO ASPEN". Aspen is regenerating nicely. Has some oak coming in the understory. Will be a fully stocked stand. Snowmobile trail passes through stand.
20	4125 - Black, N. Pin Oak	Low Density Sapling	14.4	7		PARVHA/PARVVB. CUT IN 2006 SALE#720210501 "SUB ZERO ASPEN". Oak has regenerated fairly decent. Still getting some browse. Snowmobile trail passes through stand.
21	4131 - Aspen, Oak	High Density Log	44.4	80	51-80	PARVHA/PARVVB. Stand is across from Fox Run Golf Course. Oak wilt was found there a couple of years ago. Would not be surprised if it was in this stand as well. Oak is declining. Aspen is getting old and starting to fall down too. Snowmobile trail passes through stand.
22	4130 - Aspen	High Density Sapling	19.7	7		PARVHA/PARVVB. CUT IN 2006 SALE#720210501 "SUB ZERO ASPEN" Sale has regenerated nicely. Should be a fully stocked stand.
23	42290 - Natural Mixed Pine	Medium Density Log	7.9	73	1-50	PARVHA/PARVVB. Stand was cut in 1988. Has regenerated to oak and aspen. Oak is being browsed regularly. Aspen is filling in from the outside in. Snowmobile trail passes through stand.
24	4131 - Aspen, Oak	Medium Density	5.5	25		PARVHA/PARVVB. Stand was cut in 1988. Has regenerated to oak and aspen. Oak is being browsed regularly. Aspen is filling in from the outside in. Stand is approaching pole size class.
<b>25</b>	4130 - Aspen	High Density Sapling	18.1	27		PARVHA/PARVVB. Stand has good height growth. Getting close to pole sized. Aspen has some stems with hypox. Not real wide spread though. White pine is mixed throughout stand.
26	4130 - Aspen	High Density Sapling	21.3	10		PARVHA/PARVVB. Stand was cut in 2003. Stand has some large diameter oak throughout from previous harvest. Stand is regenerating nicely.

S t	Graylin	Grayling Mgt. Unit			<ul><li>Forested</li></ul>	Stands Compartment: 199 Year of Entry: 2015	DNR DNR
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:	MICHIGAN .
27	4199 - Other Mixed Upland Deciduous	High Density Sapling	22.3	25		PARVHA/PARVVB. Stand has regenerated and growing fairly well. Has some patches with Hypox	

# Report 9 - Nonforested Stands

Compartment: 199 Year of Entry: 2015



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
8	3102 - Grass	1.0	No	Unspecified	Open area. Probably has a fair amount of Knapweed on it. Could not tell from the snow cover.
11	3303 - Mixed Low Density Trees	23.0	No	Low	Stand is mostly open, has some grass. Jack pine and scotch pine scattered throughout in small clumps. Also has some aspen and apple trees scattered throughout.
12	3303 - Mixed Low Density Trees	20.9	Yes	Red Pine	