

### **GRAYLING FOREST MANAGEMENT UNIT COMPARTMENT REVIEW PRESENTATION**

# COMPARTMENT # 26 ENTRY YEAR: 2012

GIS Compartment Acreage: 2295 County: Oscoda

**Revision Date:** 9/2/2010

Stand Examiner: Lucas Merrick

Legal Description: Oscoda County - Elmer Township, T28N R02E Sections 1, 2, and 12. West Clinton Township, T28N R03E Sections 6 and 7.

**Management Goals:** To maintain forest health, productivity, sustainability, and diversity throughout the compartment while providing for multiple use within the area.

**Soils and Topography:** Topography has rolling hills to very steep terrain. Soils consist of various sand associations in the upland areas.

**Ownership Patterns, Development, and Land Use in and Around the Compartment:** An isolated 40 acre parcel breaks up an otherwise contiguous state ownership. Large private parcels make up the western boundary. State ownership continues north, south, and east. There is still active gas exploration throughout the area. The northwest portion of this compartment is found within the Hunt Creek Research Area boundaries.

**Unique, Natural Features:** "Bushman Swamp" is known to contain species of orchid such as Amerochis rotundifolia and Cypripedium arietinum. The southern portions of this compartment have been impacted by a large wind event in 1999.

Archeological, Historical, and Cultural Features: Potions of this compartment contain the "Hill Settlement" area.

**Special Management Designations or Considerations:** The Hunt Creek Research Area is a designated Special Conservation Area (SCA). See the "Dedicated & Proposed Special Conservation Area Map" for location within the compartment.

Watershed and Fisheries Considerations: Hunt creek and several small ponds are found throughout.

**Wildlife Habitat Considerations:** Make attempts to expand aspen component where possible during harvest operations. This compartment contains a diverse array of mast producing shrubs found throughout the understory. Enhance the swamp conifer edges with dead and down specifications during timber operations. Three maintained wildlife openings are found in this compartment.

**Mineral Resource and Development Concerns and/or Restrictions:** Surface sediments consist of glacial outwash sand and gravel, postglacial alluvium and end moraines of medium-textured till (uplands). The glacial drift thickness varies between 400 and 800 feet. Beneath the glacial drift is the Coldwater Shale. There is not an economic use for the Coldwater Shale. The nearest gravel pit is two miles to the south, and gravel potential is thought to be good on the upland areas. Most of the State land in the compartment has been leased for oil and gas. The Antrim Shale is the producing formation in the area and additional drilling is possible.

**Vehicle Access:** The compartment can be accessed using county roads. Oil and gas right-of-ways provide multiple access opportunities for wheeled vehicles and foot traffic.

**Survey Needs:** The southwest corner of the private 40 encompassed by state land was not located during field review. The other three corners which identify the boundary have been located. It is expected the missing corner is set and could be located during a closer inspection. No survey requests should be needed.

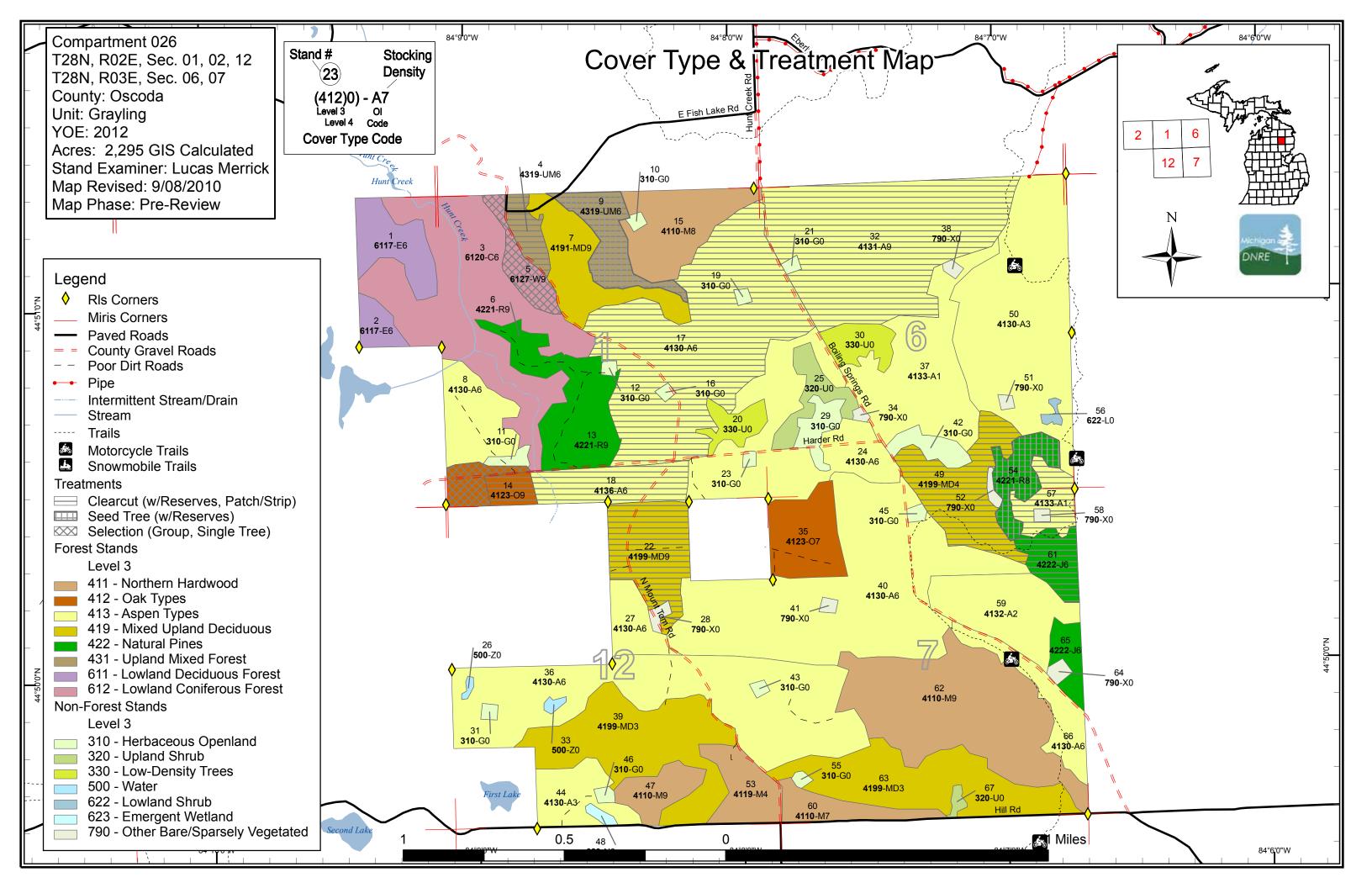
**Recreational Facilities and Opportunities:** The Hunt Creek ORV trail is located in the western portion. Dispersed recreation occurs throughout. This area provides excellent hunting and gathering opportunities.

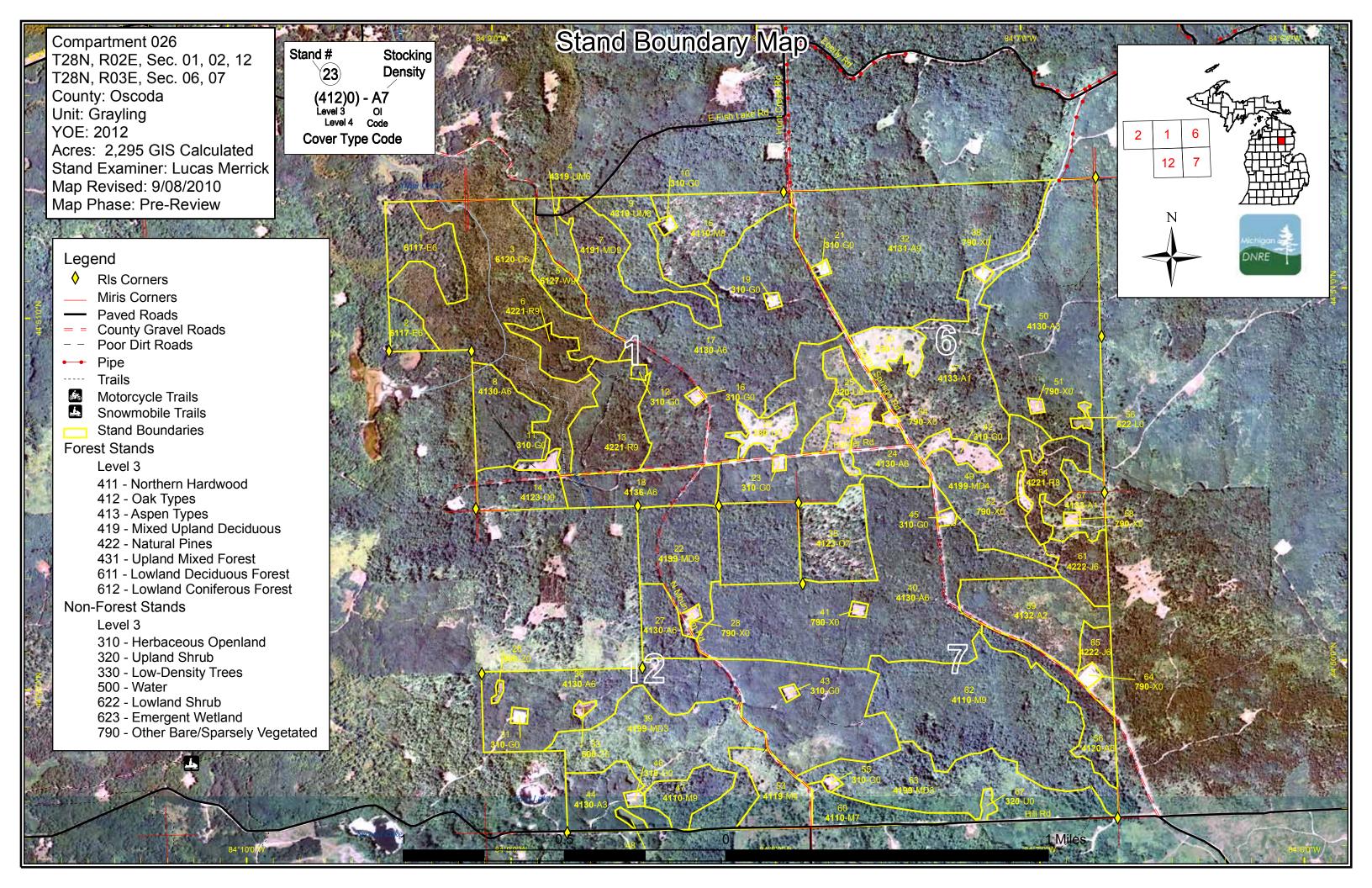
**Fire Protection:** Terrain will limit many water units during suppression activities. This compartment contains very little "high hazard" fuel types.

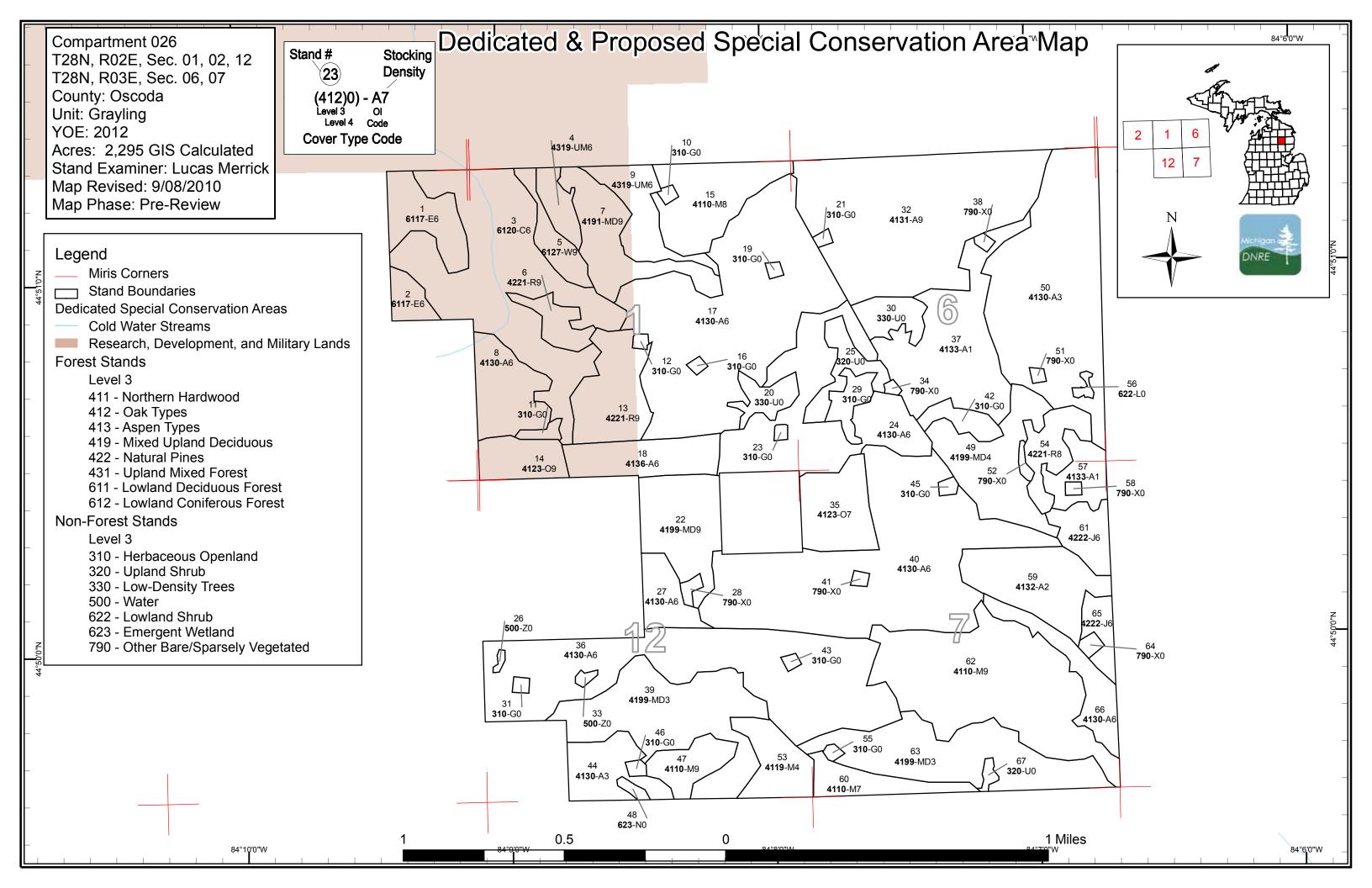
### LOTS Compartment Acreage: 2,299 acres

- > The following reports are available:
  - Cover Type by Age Class
  - Proposed Treatment Summaries
  - Dedicated Conservation Area Details
  - Listing of Forested Stands
  - Listing of Non-Forested Stands
  - Proposed Treatments No Limiting Factors
  - Proposed Treatments With Limiting Factors
- > The following information is displayed, where pertinent, on the attached compartment maps:
  - Base feature information, stand numbers, cover types, recreation trails and facilities
  - Proposed treatments
  - Proposed road access system
  - ♦ Special Conservation areas

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## Table 1 – Total Acres by Cover Type and Age Class

Grayling Mgt. Unit

Data updated before 2:00 PM

### Compartment 026 Year of Entry 2012



							Age										
	Nor	A Steeles	6.z	6 <sup>7,0</sup>	62. 2.		04	30.30	60 <sup>.00</sup>	10 10 10	00,00	65.0	001.001	6 <sup>17</sup> 0 <sup>17</sup>	*0č1	AND LO	101
Aspen	0	0	28	546	0	467	27	0	0	0	164	0	0	0	0	1232	
Bare/Sparsely Vegetated	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13	
Cedar	0	0	0	0	0	0	0	0	0	0	0	142	0	0	0	142	
Herbaceous Openland	41	0	0	0	0	0	0	0	0	0	0	0	0	0	0	41	
Jack Pine	0	0	0	0	0	12	19	0	0	0	0	0	0	0	0	31	
Low-Density Trees	27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	27	
Lowland Conifers	0	0	0	0	0	0	0	0	0	0	0	0	16	0	0	16	
Lowland Deciduous	0	0	0	0	0	0	0	0	0	39	0	0	0	0	0	39	
Lowland Shrub	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
Marsh	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
Mixed Upland Deciduous	0	0	166	52	0	0	0	0	0	0	47	43	0	0	0	308	
Northern Hardwood	0	0	0	0	26	0	0	20	0	19	47	131	0	0	0	245	
Oak	0	0	0	0	0	0	0	0	0	21	0	36	0	0	0	57	
Red Pine	0	0	0	0	0	0	22	0	0	42	0	14	0	0	0	77	
Upland Mixed Forest	0	0	0	0	0	12	0	0	0	28	0	0	0	0	0	40	
Upland Shrub	19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19	
Water	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
Total	107	0	194	598	26	491	68	20	0	150	259	366	16	0	0	2295	

# Table 2 – Proposed Treatment Summaries

Data updated before 2:00 PM

#### Compartment 026 Total Compartment Acres: 2295

Grayling	Mgt. Unit
Year of Entry	2012

	A	cres by Treatment Type	1	
Commercial Harvest - 617	Site Prep - 0	Tree Planting - 0	Prescribed Burn - 0	Other - 0
Habitat Cut - 0	Opening Maintenance - 0	Tree Seeding - 0	Pesticide - 0	
		Cover Type by Harvest I	Method	
Aspen	400		0 400	
Jack Pine	19	0 0 0 0	0 19	
Lowland Co	onifers 0	16 0 0 0	0 16	
Mixed Uplay	nd Deciduous 99	0 0 0 0	0 99	
Oak	9	12 0 0 0	0 21	
Red Pine	0	0 22 0 0	0 22	
Upland Mixe	ed Forest 12	0 28 0 0	0 40	
	Total 539	28 50 0 0	0 617	

S t	Da		ayling Mgt. Unit ted before 2:00 P			atments Pre _imiting Fac		Compartment: 026 Year of Entry 2012	Michigan -
a n d	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
4	72026004-Cut	12.4	4319 - Mixed Upland Forest	High Density Pole	40	Harvest	Clearcut	Aspen	Cmpt. Review Proposal
Presc Specs	•		2" and up. Mark a h llife benefits.	andfull of oak or red	pine for	mast and vertion	cal green structure. Leav	e a couple high stump	s throughout the
<u>Other</u> Comn	n <u>ents:</u> hdwds.	A mode		of natural regeneration			The management objecti majority species should b		
<u>Next</u> Steps		regen pe	er guidelines.						
5	72026005-Cut	15.7	6127 - Lowland Pine	High Density Log	115	Harvest	Group Selection	Pine, Aspen Mix	Cmpt. Review Proposal
Presc Specs	spacing	, and equ		Protect cedar Mark	trees alo		ally mark minor amounts ge to drop into the conife		
<u>Other</u> Comn	-	l be a sta	nd containing super c	anopy pine with a m	nixed low	land decidous/	conifer understory.		
<u>Next</u> Steps	-								
9	72026009-Cut	28.0	4319 - Mixed Upland Forest	High Density Pole	80	Harvest	Seed Tree	Oak, Pine	Cmpt. Review Proposal
Presc Specs	· · · · · · · · · · · · · · · · · · ·		A of mixed pine, oak, a ately adjacent to pock			es all other spe	cies 2" and up. Try to ex	pand the aspen clones	by not leaving
<u>Other</u> Comn	- 0		jective for this stand is be planted with red pir	•	tion of dr	ry mesic forest	types with an oak compo	nent. If moderate stoc	king is not met
<u>Next</u> Steps	-								
14	72026014_sm all-Cut	9.0	4123 - Red Oak	High Density Log	88	Harvest	Clearcut	Oak, Aspen	Cmpt. Review Proposal
Presc Specs			trees 2" and up. Ther lock if suitable trees a		mlock, pi	rotect these and	d the trees around them b	y marking to leave. Le	ave some nurse
<u>Other</u> Comn	nents: A mode		ocked stand primarily				s oak/aspen with minor co red a success. If regener		
<u>Next</u> Steps	<u>.</u>								
14	72026014-Cut	12.4	4123 - Red Oak	High Density Log	88	Harvest	Single Tree Selection	Mixed Northern Hardwoods	Cmpt. Review Proposal
Presc Specs		and to 70	BA. Favor sugar ma	ple and the healthier	r oak to l	eave. Create la	arge canopy gaps for the	oak and basswood.	
<u>Other</u> Comn	-	stand. F	Recommend that this	not be set up by con	tractors.	There should	not be a need for new roa	ads.	
<u>Next</u> <u>Steps</u>		health of	f stand and success re	egen.					

S t	Da		ayling Mgt. Unit Ited before 2:00 PM			atments Pre _imiting Fac		Compartment: 026 Year of Entry 2012	
a n d	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
17	72026017-Cut	182.5	4130 - Aspen I	High Density Pole	45	Harvest	Clearcut with Reserves	Aspen, Mixed Deciduous	Cmpt. Review Proposal
Presc Specs	•		and up. Leave approx 1	10% of stand in ret	ention is	slands. Mark a r	ninor amount of individua	al leave trees througho	ut for vertical
<u>Other</u> Comn	ments: be cons		success. If natural rege				moderately stocked star to red pine. Chase son		
<u>Next</u> Steps	<u>::</u>								
18	72026018-Cut	34.0	4136 - Aspen, I Mixed Conifer	High Density Pole	44	Harvest	Clearcut	Aspen, Mixed Pine	Cmpt. Review Proposal
Presc Specs		rvest all	trees 2" and up. Do not	t leave retention in	this sta	nd.			
	Manage ments:	ement ob	jective is aspen and mix	ed pine. Moderat	e stockir	ng is acceptable.	If regeneration is not a	dequate, plant open ar	eas to red pine
<u>Next</u> Steps	<u>::</u>								
22	72026022-Cut	47.1	4199 - Other Mixed Upland Deciduous	High Density Log	93	Harvest	Clearcut with Reserves	Aspen, Oak	Cmpt. Review Proposal
Presc Specs			and up. Leave retentior e spec to drop around th		hemloc	k found in stand	, protect these with islan	ds or leave trees. If su	table nurse logs
<u>Other</u> Comn	<u>nents:</u> objectiv	e is an o	e SW corner of the pvt 4 ak aspen mix with minor s. If stocking is not met,	r components of m	nixed hd	wd and conifer.	rs are in so a good chan A moderately stocked st ne.	ce that it is there. Mar and containing mostly	agement aspen and oak
<u>Next</u> Steps	<u>::</u>								
32	72026032-Cut	164.5	4131 - Aspen, Oak	High Density Log	96	Harvest	Clearcut with Reserves	Aspen, Oak	Cmpt. Review Proposal
Presc Specs			trees 2" and up. Leave ct at least one of the red				ut individual leave trees t an island.	hroughout the sale are	a for vertical
<u>Other</u> Comn							d component. A moder onsidered inadequate, pla		
<u>Next</u> <u>Steps</u>	<u>::</u>								
49	72026049-Cut	52.0	4199 - Other Mixed Upland Deciduous	Low Density Pole	25	Harvest	Clearcut	Aspen, Mixed Deciduous	Cmpt. Review Proposal
Presc Specs		rvest all	trees 2" and up. This st	tand may need to	be bid o	ut on a per/acre	basis. Much of stand is	unmerch.	
	- 0		jective is to expand the re-routed or buffered.	current aspen poc	kets. O	pen areas of upl	and brush are acceptabl	e. The ORV Trail runn	ing through the
<u>Next</u> Steps	<u>::</u>								

S t	Dat		ayling Mgt. Unit ted before 2:00 P		-	atments Prea .imiting Fact		Compartment: 026 Year of Entry 2012	
a n d	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
54	72026054-Cut	21.7	42210 - Natural Red Pine	Medium Density Log	57	Harvest	Seed Tree	Natural Red Pine, Mixed Deciduous	Cmpt. Review Proposal
Presc Spece	•		of red and white pine species from the star		couple nic	ce pockets where	e higher BA 70-90 can	be left if size and quality	allows.
<u>Other</u> <u>Comr</u> Next		ry will be	considered a succes					oderately stocked pine/ s are not met the stand	
Steps	<u>3:</u>								
57	72026057-Cut	18.9	4133 - Aspen, Mixed Pine	Low Density Sapling	25	Harvest	Clearcut	Aspen, Mixed Deciduous	Cmpt. Review Proposal
Preso Spece		vest all t	rees 2" and up. This	stand may need to	be bid ou	ut by the acre, m	uch of the stand is con	sidered unmerch.	
<u>Other</u> <u>Comr</u> <u>Next</u> Steps	<u>ments:</u> Leave al						on of the current aspen in stand should be re-	clones after harvest is routed or buffered.	a success.
<u>61</u>	<u>72026061-Cut</u>	18.8	42220 - Natural Jack Pine	High Density Pole	50	Harvest	Clearcut with Reserves	Aspen, Jack Pine	Cmpt. Review Proposal
Preso Spece			rees 2" and up. Leav pen found throughout		lands and	l some individua	lly marked red pine for	retention. Make all effo	rts to expand
<u>Other</u> Comr	<u>ments:</u> Open u- <sub>l</sub>	pland bru						y should be considered a ly fill in with jack pine in	
<u>Next</u> Steps	<u>s:</u>								
A	Total Treatmer creage Propose		17.2						

S t	Data	•	ling Mgt. Unit before 2:00 PM	Table 4		ents Prescrib ng Factor	ed with	Compartment: 026 Year of Entry 2012	
a n d	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
			#Error						
Presc Spece	ription <u>s:</u>								
<u>Other</u> Comr									
<u>Next</u> Steps	<u>:</u>								
	ng Factor and N ment Reason	<u>0</u>							
Ac	Total Treatmei creage Propose		0						

Data updated before 2:00 PM

0

### Out of YOE -- Treatments Prescribed with No Limiting Factor

Year of Entry: 2012

Michigan
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Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
Prescription Specs:								
<u>Other</u> <u>Comments:</u>								
<u>Next</u> <u>Steps:</u>								

Total Treatment Acreage Proposed:

S t	Grayling	Grayling Mgt. Unit			orested Sta	
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	6117 - Lowland Deciduous, Mixed Coniferous	High Density Pole	28.8	80		Lowland popple and mixed conifer. Portions of stand are very close to Hunt Creek.
2	6117 - Lowland Deciduous, Mixed Coniferous	High Density Pole	10.5	85		A mixture of red maple, aspen and mixed conifer.
3	6120 - Lowland Cedar	High Density Pole	142.1	100		Orchids and a creek noted to be in stand.
4	4319 - Mixed Upland Forest	High Density Pole	12.4	40		Aspen and fir over topped by red pine and oak. The majority of this stand is on a hill with a western aspect.
5	6127 - Lowland Pine	High Density Log	15.7	115	81-110	New stand added. Very big red and white pine. Pockets of smaller fir, aspen, birch, and maple found throughout.
6	42210 - Natural Red Pine	High Density Log	13.5	102	200+	Active hawk nest. Beautiful red pine, 9-10 sticks in spots. Areas of heavy fir understory. Cedar and red maple can be found too. Hold long term for diversity.
7	4191 - Mixed Upland Deciduous with Conifer	High Density Log	43.3	106	51-80	A pine, oak, mixed hdwds stand. Very hilly. White pine and fir make up majority of understory. Mixed hdwds are present as well. Portions of stand removed in the 60's. These pockets are dense w/ fir, aspen, and pine.
8	4130 - Aspen	High Density Pole	35.7	43		Aspen stand with a fir understory. Old landing and road system still present. Many pockets of fir are competing w/ the aspen for canopy space. Some miscellaneous pine can also be found. The fir density increases along the edges.
9	4319 - Mixed Upland Forest	High Density Pole	28.0	80	51-80	Stand runs on a ridge. Large diameter oak and red pine w/ misc hdwds and conifer underneath.
13	42210 - Natural Red Pine	High Density Log	42.1	88	111-140	Natural red pine stand mixed with aspen, white pine, balsam fir, and a little bit of oak and maple. Large diameter seed trees with areas of dense pole size regen. Jack pine in southern portion. A good amount of aspen adjacent to the wetland.
14	4123 - Red Oak	High Density Log	21.5	88	111-140	Very nice looking oak with mixed hdwds in west, poorer quality in east. Quality declines significantly east of drainage. Aspen and ash found in drainage. In the east this stand starts to develop a mixed conifer understory and aspen is found throughout. A couple hemlock here and there.
15	4110 - Sugar Maple Association	Medium Density Log	47.5	94	81-110	An average quality hdwd stand. Several stems of sugar maple w/ excellent potential. In general stand is heavy to basswood and ash. EAB present in the area. Understory is mostly ironwood w/ raspberry in areas with less canopy.
17	4130 - Aspen	High Density Pole	182.5	45		A variable aspen stand with multiple age classes and kotar habitat types. Rolling hills in northern portions. Miscellaneous pine and northern hdwds throughout.

S t	Graylin	Grayling Mgt. Unit			orested Sta	
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
18	4136 - Aspen, Mixed Conifer	High Density Pole	34.0	44	81-110	Small diameter aspen and mixed conifer. Some unmerch. timber. Areas of dense mixed conifer pockets.
22	4199 - Other Mixed Upland Deciduous	High Density Log	47.1	93		Good looking oak/aspen stand. There is a ridge in southern portion of stand. A good variety of mast producing shrubs present. Looks like two pvt parcels access their property through this stand.
24	4130 - Aspen	High Density Pole	89.8	27		A poorer quality aspen stand. Around 35' tall. Red pine, jack pine, white pine and oak also present. The eastern portions of stand are very poor quality.
27	4130 - Aspen	High Density Pole	19.1	42	51-80	Variable stand, mixed in with the aspen are pockets of hdwd and low area w/ bam. There is a fairly thick hdwd understory present.
32	4131 - Aspen, Oak	High Density Log	164.5	96	81-110	Steep rolling hills. An excellent amount of mast producing shrubs. An oak aspen stand. The southern portion of this stand had the majority of the aspen removed about 50 years ago. Pockets of red pine can be found in the north
35	4123 - Red Oak	Low Density Log	35.8	109	1-50	Sawlog oak over pockets of aspen and mixed hdwd regen. A minor conifer component.
36	4130 - Aspen	High Density Pole	163.2	25		A big kettle hole found in south east portion of stand. A tornado went through eastern and southern areas. The size and quality of aspen varies with topo, aspect, storm damage. Mixed hdwds found throughout. Plenty of deer activity throughout the stand.
37	4133 - Aspen, Mixed Pine	Low Density Sapling	81.2	25		Poor quality pockets of TA, starting to fill in w/ miscellaneous pine. Areas of upland brush. A few large oaks mixed throughout. A few pockets of above average oak regen.
39	4199 - Other Mixed Upland Deciduous	High Density Sapling	87.2	10		Area salvaged after a tornado. Mostly saplings, a few pole and log size trees scattered about. Wet seeps present throughout. Areas where some blow down was left. A pipeline cuts the stand in 1/2.
40	4130 - Aspen	High Density Pole	195.2	41	1-50	A mixed aspen stand, varies from aspen/hdwds to aspen/pine. Some areas have rolling topo. Becomes more of a solid aspen type as you head west.
44	4130 - Aspen	High Density Sapling	27.8	17		Seasonal wet areas throughout the stand. Majority of aspen is TA. Stand looks fairly healthy.
47	4110 - Sugar Maple Association	High Density Log	19.4	85	81-110	Very hilly. A tornado has created natural canopy gaps throughout, this is where the best regen is establishing. Areas of damage to overstory. This stand has excellent wildlife quality- plenty of horizontal structure, den trees, nesting trees.
49	4199 - Other Mixed Upland Deciduous	Low Density Pole	52.0	25		Stand is made up of pockets of aspen with scattered cherry. A minor conifer component present.

S t	Grayling Mgt. Unit				orested Sta ted before 2	
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
50	4130 - Aspen	High Density Sapling	142.3	25		Hills in the north. Mixed aspen with oak and red maple. Scattered sawlog size red pine. 30' + tall
53	4119 - Mixed Northern Hardwoods	Low Density Pole	26.3	38	1-50	Hill Settlement area. Majority of walnut was planted. Staghorn sumac throughout. A heavy ash component in over and understory. Rolling hills. Plenty of mast producing shrubs.
54	42210 - Natural Red Pine	Medium Density Log	21.7	57	81-110	A mixed red and white pine stand. Quality and size varies. Slightly rolling topo. The northern understory is heavily stocked w/ aspen and red maple adjacent to the cuts. Jack pine present in southern portion.
57	4133 - Aspen, Mixed Pine	Low Density Sapling	18.9	25	1-50	The stand is primarily cherry brush with pockets of aspen and some various pine mixed throughout. The aspen is below average quality.
59	4132 - Aspen, Jack Pine	Medium Density	51.0	26		Pockets of aspen with scattered jack pine and upland brush. The aspen varies in size and quality.
60	4110 - Sugar Maple Association	Low Density Log	20.2	68	1-50	The stand was salvaged after a tornado. Crop/seed tree. A dense understory of hdwds present. Some ash, basswood, beech, and aspen can also be found in overstory. EAB present in the area.
61	42220 - Natural Jack Pine	High Density Pole	18.8	50	51-80	Jack pine with scattered red pine and pockets of aspen. Some of the jack pine is already falling apart. Red pine in the S and E.
62	4110 - Sugar Maple Association	High Density Log	131.3	105	51-80	A good looking hdwd stand. Rolling hills. A fair ash component present. EAB present in the area. It has recently been treated. A diverse understory present throughout. Some yellow birch also in canopy.
63	4199 - Other Mixed Upland Deciduous	High Density Sapling	78.7	10		This stand did not have salvage work done after the wind event, it was used as a control area. A difficult stand to walk through. Height of canopy varies, avg around 20'. Some mature trees are still standing (super canopy).
65	42220 - Natural Jack Pine	High Density Pole	12.0	45	51-80	Jack pine with aspen pockets and scattered red pine.
66	4130 - Aspen	High Density Pole	27.1	52		ORV trail runs through this stand. QA & BT aspen. Mixed pine present in southern portion, mixed hdwds in the north.

Grayling Mgt. Unit

**6 – Nonforested Stands** Data updated before 2:00 PM

Compartment: 026 Year of Entry: 2012



Stand	Cover Type	Acres	Gen Cmts:
10	3102 - Grass	1.5	MPSC WELL 10743. No ownership sign. (Newer well, within last 10 yrs)
11	3102 - Grass	3.3	A maintained grassy opening. Cherry saps and one large open grown oak present.
12	3102 - Grass	1.3	Gas well. Breitburn C3-1W&N. 2 directional wells on site.
16	3102 - Grass	1.3	Knappweed present. Gas well. Terra Energy. State Elmer 10-1HD.
19	3102 - Grass	1.3	Terra Energy St. Elmer 8-1
20	3303 - Mixed Low Density Trees	12.0	Pockets of pole size pine and aspen clones approx. 7' tall. Cherry brush and sand willow present. Ground cover is sweet fern, blueberry, sedge, and bracken.
21	3102 - Grass	1.4	Merrit Energy Company. State Clinton B1-6. Knappweed present.
23	3102 - Grass	1.2	Gas well. Terra Energy. St. Elmer 16-1.
25	3204 - Mast Producing Shrub	16.9	Open stand with cherry shrubs of various sizes. Pockets of jack pine present. Sweet fern throughout. A couple aspen and red pine present.
26	50 - Water	0.9	New stand added. Turtles and ducks present.
28	790 - Other Bare/Sparsely Vegetate	2.4	Terra Energy State Clinton 7-12
29	3102 - Grass	10.9	Maintained grassy opening.
30	3303 - Mixed Low Density Trees	15.1	A red pine stand that was harvested but has not been planted. Pockets of pole size aspen and mixed pine. Some pine seedlings also present. Majority of stand is cherry brush.
31	3102 - Grass	1.5	Well, Atlas Gas & Oil Company C1-12
33	50 - Water	1.5	A small pond choked with vegetation. Watched a deer take a drink out of it. Frogs present.
34	790 - Other Bare/Sparsely Vegetate	1.1	Gas well. Merrit Energy company. State Clinton D2-6.
38	790 - Other Bare/Sparsely Vegetate	1.4	Merrit Energy State Clinton B3-6

Grayling Mgt. Unit

**6 – Nonforested Stands** Data updated before 2:00 PM

Compartment: 026 Year of Entry: 2012



Stand	Cover Type	Acres	Gen Cmts:	
41	790 - Other Bare/Sparsely Vegetate	1.4	Terra Energy State Clinton 5-7	
42	3105 - Mixed Upland Herbaceous	10.6	Maintained grassy opening. Pockets of cherry and pine scattered throughout.	
43	3102 - Grass	1.3	Terra Energy State Elmer 9-12	
45	3102 - Grass	1.8	Breitburn State Clinton A2-7	
46	3102 - Grass	1.7	Terra Energy State Elmer 14-12	
48	6230 - Cattail	2.2	A wet area with cattails.	
51	790 - Other Bare/Sparsely Vegetate	1.2	Merrit Energy C4-6	
52	790 - Other Bare/Sparsely Vegetate	1.9	Poorly vegetated, evidence of heavy ground disturbance.	
55	3102 - Grass	1.4	New stand added. Breitburn well USA Elmer Clinton D1-7HDL. Building, communication tower on site.	
56	6229 - Mixed lowland shrub	1.8	Areas of open water. Willow w/ blueberry, sedge, and cattails.	
58	790 - Other Bare/Sparsely Vegetate	1.3	Terra Energy State Clinton 1-7.	
64	790 - Other Bare/Sparsely Vegetate	2.4	Terra Energy CPF. Multiple buildings and equipment at site.	
67	3205 - Mixed Upland Shrub	2.2	An opening w/ mixed deciduous trees and shrubs. Old landing.	



#### 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.

#### Data updated before 2:00 PM

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	n Type	Data updated before 2:00 PM 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.			
SCA Research and Military Areas These areas provide facilities and lands specifically dedicated include the 5,847 acre Forest Fire Experiment Station, the 12,0 Area, the Beaver Islands Archipelago Wildlife Research Area ( High and Hog Islands, all state owned land on Beaver, South F 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		