

GRAYLING FOREST MANAGEMENT UNIT COMPARTMENT REVIEW PRESENTATION

COMPARTMENT # 010 ENTRY YEAR: 2013

Compartment Acreage: 2209 County: OSCODA

Revision Date: 7/24/11

Stand Examiner: Lucas Merrick

Legal Description: Elmer Township, T27N R02E sections 8, 9, 17, 20

Management Goals: To maintain forest health, productivity, sustainability, species diversification, and structural diversity throughout the compartment while providing for multiple use and visual management.

Soil and Topography: The terrain is level with a couple areas of rolling hills. A few big holes or deep depressions can be found in the northern portions of the compartment. The soils are primarily composed of Grayling and Graycalm sands. Leafriver muck is found in the lowland areas.

Ownership Patterns, Development, and Land Use in and Around the Compartment: Multiple private parcels can be found in the center of the compartment. A Consumers Power overhead transmission line splits section 17 and runs along the eastern edge of section 20.

Unique, Natural Features: Per Michigan Natural Features there is potential for loon in Muskrat Lake. Secretive locust may occur in bogs. Potential for dusted skipper, grizzled skipper, Henry's elfin, and redlegged spittlebug in grassy openings and open jack pine or oak. Red-shouldered hawk and goshawk may be present. Bald eagle and osprey could be seen along lakes. There is potential for Kirtland's warbler and prairie warbler in areas of young jack pine.

Plant species that could be present are rough fescue, pale agoseris, Hill's thistle, and Alleghany plum in pine barrens/dry sand prairie.

Archeological, Historical, and Cultural Features: The historical Elmer Township Cemetery is found in T27N R2E Section 8 SW1/4 SW1/4 along the north side of the snowmobile trail. Documents indicate this cemetery dates back to 1893.

Special Management Designations or Considerations: None at this time.

Watershed and Fisheries Considerations: A portion of Muskrat Lake is found within the compartment. This shallow lake is subject to winterkill. Seasonal creeks are found in the northeast portions of section 20.

Wildlife Habitat Considerations: Promote the expansion of aspen and oak cover types. Protect mast producing shrubs whenever possible. Efforts should be made to enhance dead and down woody debris and standing snags.

Mineral Resource and Development Concerns and/or Restrictions: Surface sediments consist of ice-contact outwash sand and gravel. The glacial drift thickness varies between 600 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 within one mile to the east, and gravel potential is thought to be good. There are no leases for oil and gas development in the Compartment. The Antrim Shale is the main producing formation in the area and has been developed to the north of the compartment. The Antrim appears to be losing potential, due to the thickness of overburden, and may never be drilled in this area. Some of the Antrim wells to the north have been abandoned.

Vehicle Access: This compartment can easily be accessed by county roads. Multiple forest roads aid in accessing interior portions.

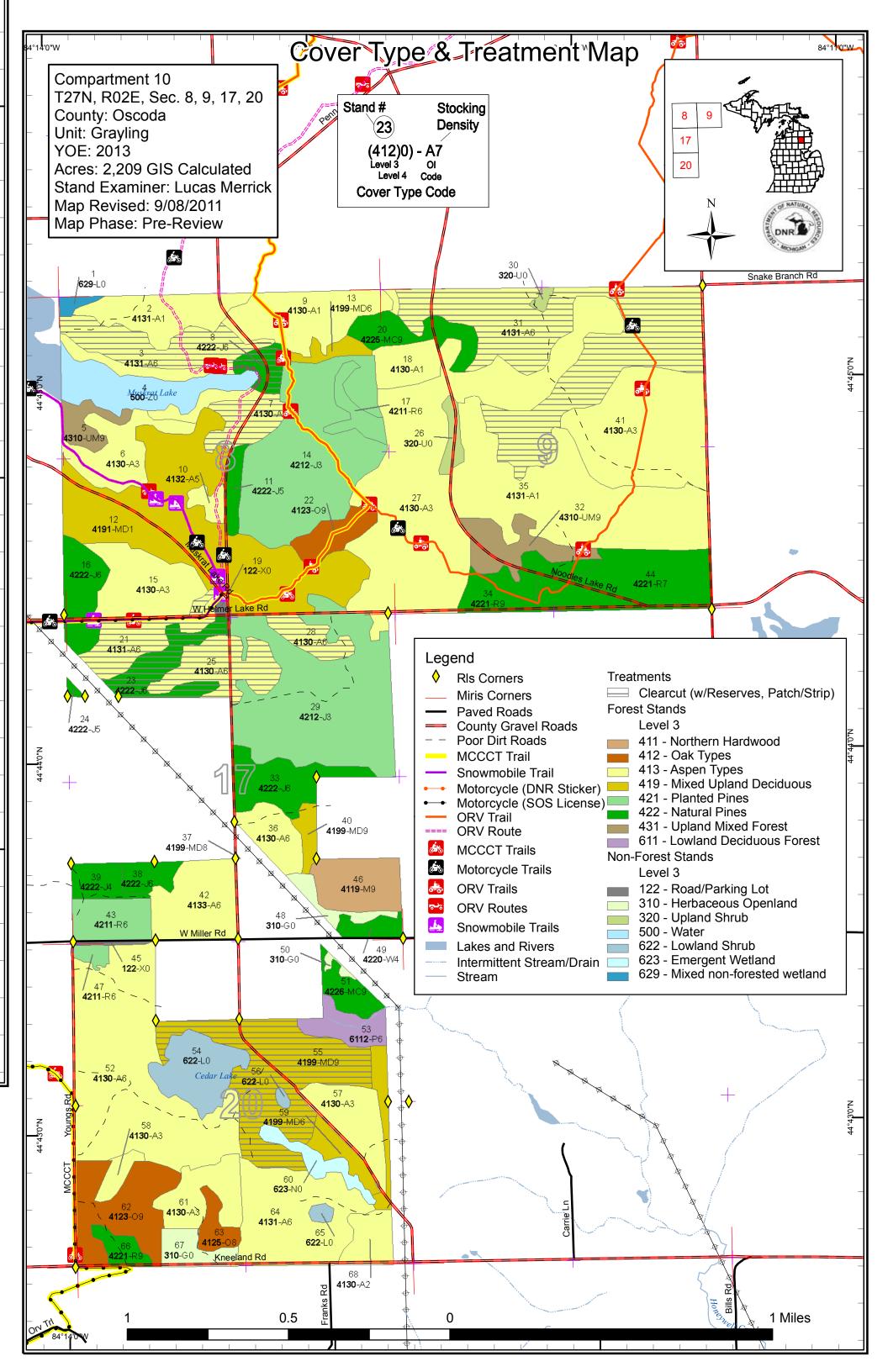
Survey Needs: Potential for surveyor assistance may be needed in the northwest of section 17.

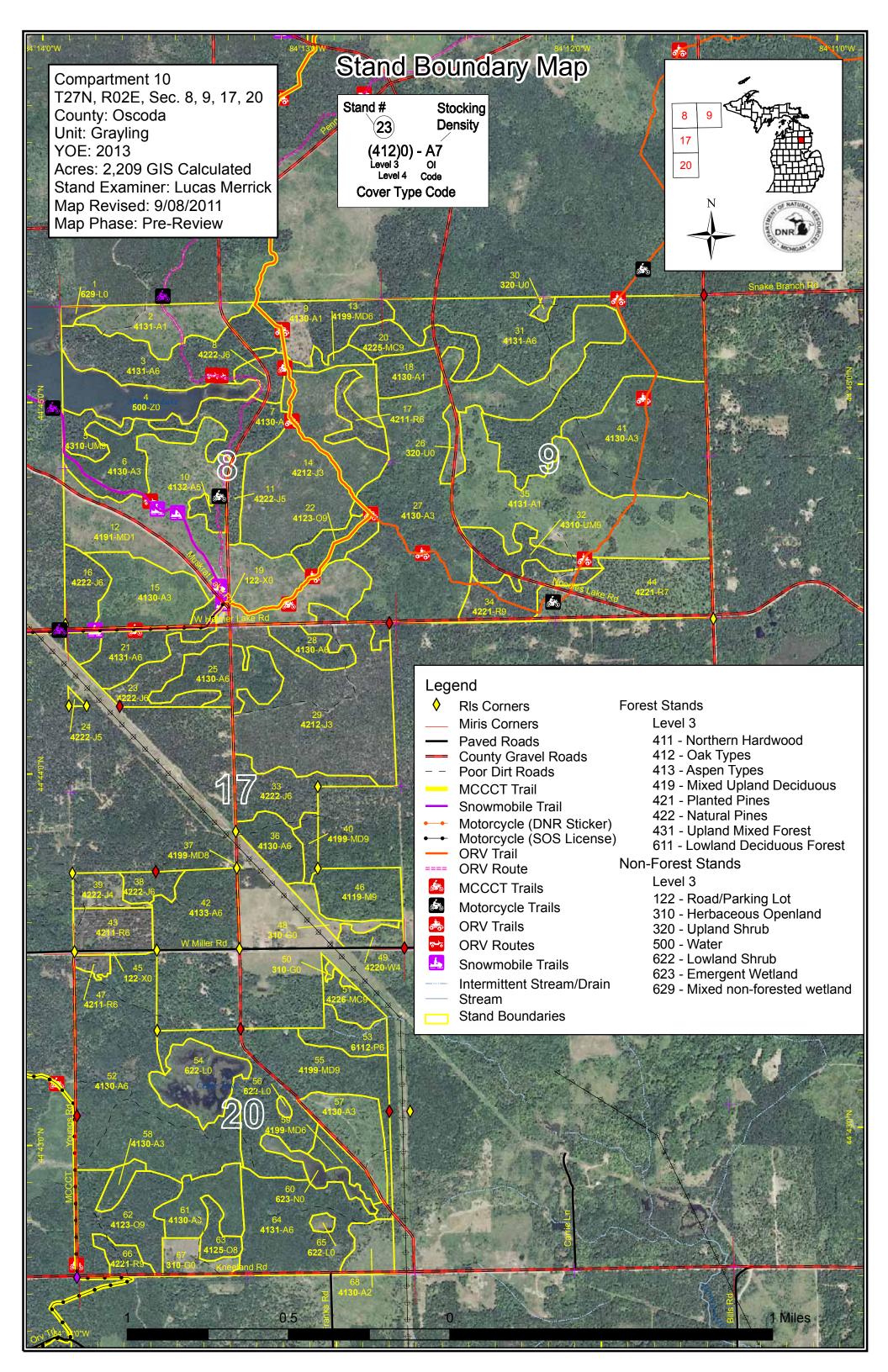
Recreational Facilities and Opportunities: Dispersed recreation occurs throughout the compartment. Muskrat Lake provides canoeing, fishing and hunting opportunities. Recreational trails that can be found are Snowmobile Trail #4/9, Mio ORV Trail, Mio ORV Route, and the Mio to Meadows MCCCT Trail. The Muskrat Lake ORV Trail Parking Lot is found at the intersection of Helmer Lake and Richardson Roads. The former Muskrat Lake SF Campground is located directly west of this compartment on the south shore of Muskrat Lake. This site still provides water access to the public.

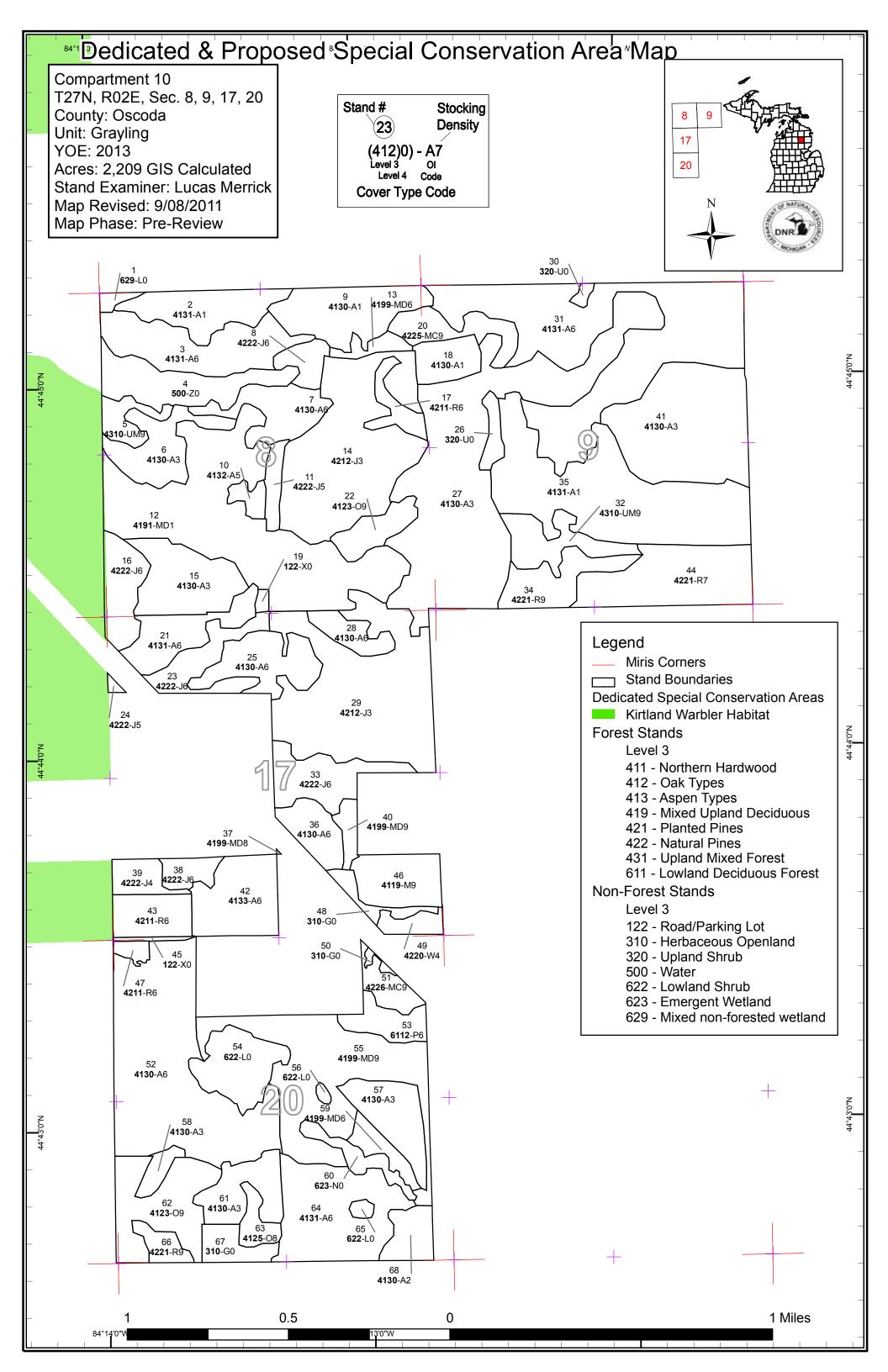
Fire Protection: There are a couple larger jack pine plantations but currently deciduous species dominate the compartment. The Consumers Power line serves as an excellent fuel break. The potential for extreme fire behavior does exist to the compartments adjacent in the west. These compartments consist of very large young jack pine plantations.

Additional Compartment Information: There was a large wind event in the southeast of section 20. Timber salvage operations occurred on public and private property.

- **➤** The following reports are available:
 - **♦** Total Acres by Cover Type and Age Class
 - **♦** Proposed Treatment Summaries
 - **♦** Dedicated Conservation Area Details
 - **♦** Listing of Forested Stands
 - **♦** Listing of Non-Forested Stands
 - **♦** Proposed Treatments with No Limiting Factor
 - **♦** 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
 - **♦** Dedicated & Proposed Special Conservation Areas







Compartment 010 Year of Entry 2013

Grayling Mgt. Unit
Lucas Merrick : Examiner



Age Class

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Aspen	0	288	62	391	81	72	95	27	0	149	0	0	0	0	0	1164	ĺ
Herbaceous Openland	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22	
Jack Pine	0	0	108	0	133	40	0	32	11	24	0	0	0	0	0	347	
Lowland Aspen/Balsam Poplar	0	0	0	0	0	0	0	0	0	0	16	0	0	0	0	16	
Lowland Shrub	38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	38	
Marsh	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	1
Mixed Upland Deciduous	0	146	0	10	0	0	0	7	0	0	94	7	0	0	0	264	
Natural Mixed Pines	0	0	0	0	0	0	0	21	0	0	11	0	0	0	0	32	
Northern Hardwood	0	0	0	0	0	0	0	0	0	0	0	0	27	0	0	27	
Oak	0	0	0	0	0	0	0	0	0	16	54	0	0	0	0	69	
Red Pine	0	0	0	0	0	36	0	81	0	8	0	0	0	0	0	125	
Upland Mixed Forest	0	0	0	0	0	0	0	24	0	0	12	0	0	0	0	36	
Upland Shrub	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	
Urban	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	
Water	37	0	0	0	0	0	0	0	0	0	0	0	0	0	0	37	1
White Pine	0	0	0	0	0	0	8	0	0	0	0	0	0	0	0	8	1
Total	121	434	170	401	214	147	103	191	11	197	187	7	27	0	0	2209	



Table 2 – Proposed Treatment Summaries

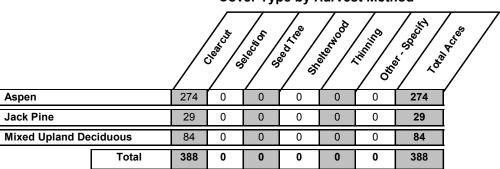
Grayling Mgt. Unit Compartment 010 Year of Entry 2013 **Total Compartment Acres: 2209**

Acres by Treatment Type

Commercial Harvest - 388 Site Prep - 0 Tree Planting - 0 Prescribed Burn - 0 Other - 0

Habitat Cut - 0 Tree Seeding - 0 Pesticide - 0 Opening Maintenance - 0

Cover Type by Harvest Method



Grayling Mgt. Unit S

Table 3 -- Treatments Prescribed with No Limiting Factor

Compartment: 010 Year of Entry 2013

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a n d	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
3	72010003-Cut	36.5	4131 - Aspen, Oak	High Density Pole	51	Harvest	Clearcut with Reserves	4121 - Oak, Aspen	Cmpt. Review Proposal

Prescription AOI outline has been adjusted to account for Muskrat Lake buffer. Use retention as means to protect and buffer the ORV trail. Leave some of the larger red pine scattered throughout. There are a couple pockets with larger "relic" pine. Specs:

Other Management objective is a moderate to fully stocked stand of mixed species dominated by aspen and oak. If adequate regeneration is not established trench and plant red pine. Comments:

Next monitor regen Steps:

4130 - Aspen 7 72010007-Cut 18.7 4130 - Aspen High Density Pole 69 Harvest Clearcut with Cmpt. Review Reserves Proposal

Prescription Final harvest- expand aspen component where possible. See "other coments" field for retention comments.

Specs:

A buffer along Muskrat Lk has been created. This area was excluded from the AOI outline. This should be considered retention for the sale. Other_ The only in sale area retention should be used to protect/buffer the ORV trail. Management objective is a moderate to fully stocked aspen stand Comments:

with intermittent mixed species found throughout. If regen fails plant to red pine.

Next monitor regen

<u>Steps:</u>

72010008-Cut 8 6.5 42220 - Natural High Density Pole 76 Harvest Clearcut with 42290 - Natural Cmpt. Review Jack Pine Reserves Mixed Pine Proposal

Prescription Leave red pine and white pine, mark some individual jack pine to leave also. Do not leave islands within harvest area.

High Density Pole

Specs:

Other_ Treat east of road. Management objective is a mixe pine stand - moderate stocking is acceptable. If natural regen fails, replant stand with red

or jack pine. Comments:

Next monitor regen

Steps:

72010021-Cut 26.3 Clearcut Cmpt. Review 21 4131 - Aspen, Oak High Density Pole Harvest 4131 - Aspen, Oak Proposal

Prescription Final harvest retention will not be applied to this stand in order to maximize aspen/oak regeneration. However a couple trees can be marked to

leave to provide vertical structure. Specs:

22.7

Note- the AOI outline buffers the ORV Parking Lot. <u>Other</u>

Comments:

Next monitor regen

Steps:

23

72010023-Cut

42220 - Natural

Jack Pine

<u>Prescription</u> Final harvest. Mark out small leave islands scattered throughout the sale. Specs:

Allow adjacent aspen to encroach. Make attempts to protect oak regen. A moderately stocked jack pine with mixed deciduous trees is the

Harvest

Clearcut with

Reserves

42221 - Natural Jack

Pine, Mixed

Deciduous

<u>Other</u> managment objective. If natural regen fails, plant stand with jack pine. Comments:

<u>Next</u> monitor regen

Steps:

Cmpt. Review

Proposal

Grayling Mgt. Unit

Table 3 -- Treatments Prescribed with No Limiting Factor

Compartment: 010
Year of Entry 2013

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a n d	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
25	72010025-Cut	31.7	4130 - Aspen	High Density Pole	58	Harvest	Clearcut	4130 - Aspen	Cmpt. Review Proposal

<u>Prescription</u> Final harvest no retention to maximize aspen regen. Make sure to remove the smaller maple. There are a couple larger oaks/maples along road <u>Specs:</u> that may be left for aesthetics.

Other

s

Comments:

<u>Next</u>

Steps:

monitor regen

28 72010028-Cut 12.9 4130 - Aspen High Density Pole 58 Harvest Clearcut 4130 - Aspen Cmpt. Review Proposal

<u>Prescription</u> Final harvest- no retention to maximize the aspen regen in a small area. .

Specs:

Other Would suggest extending boundary into adjacent jack pine stand to allow for expansion.

Comments:

Next monitor regen

Steps:

31 72010031-Cut 148.0 4131 - Aspen, Oak High Density Pole 84 Harvest Clearcut with 4131 - Aspen, Oak Cmpt. Review Reserves Proposal

Prescription Final harvest. Leave multiple retention islands 3-6% of harvest area.

Specs:

Other A variable stand. Age, quality, and composition varies. Management objective is the same- A well stocked stand dominated by aspen/oak with other various mixed deciduous and conifer species currently making up stand composition. Note that recent harvest along western edge has

been buffered by excluding a small portion of stand from AOI outline.

<u>Next</u>

Monitor regen

Steps:

55 72010055-Cut 84.3 4199 - Other Mixed High Density Log 95 Harvest Clearcut with 4199 - Other Mixed Cmpt. Review Upland Deciduous Proposal

Prescription Leave 5-10% of sale area in retention islands.

Specs:

Other Did not walk portion directly north of Cedar Lk... The rest of the areas around the bog were dry and operable.

Comments:

Next Monitor regen

Steps:

Total Treatment

Acreage Proposed: 387.5

S t a		Gray	ling Mgt. Unit	Table 4		ents Prescrib ing Factor	Compartment: 010 Year of Entry 2013	DNR DOUBLE	
n d	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
			#Error						
Preso Spec	cription s:								
Othe Com	<u>r</u> ment:								
Next Steps	<u>5:</u>								
	ing Factor and N ment Reason	lo_							

Total Treatment Acreage Proposed:

0

Out of YOE -- Treatments Prescribed with No Limiting Factor

Year of Entry: 2013

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

Steps:
Total Treatment

Comments: Next

Acreage Proposed:

0

Grayling		5 – Fo	orested Sta	nds Compartment: 010 Year of Entry: 2013	
Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
4131 - Aspen, Oak	Low Density Sapling	32.5	5		A regenerating miixed stand. ORV trail runs through it.
4131 - Aspen, Oak	High Density Pole	50.0	51	51-80	Average quality quaking aspen, oak declining. Well established witch hazel understory along rd.
4310 - Pine, Oak Mix	High Density Log	11.5	91	111-140	Stand is adjacent to Muskrat Lake.
4130 - Aspen	High Density Sapling	29.8	18		A regenerating aspen stand.
4130 - Aspen	High Density Pole	26.9	69		Aspen stand adjacent to Muskrat Lk.
42220 - Natural Jack Pine	High Density Pole	10.6	76		A jack pine stand with a healthy mixed pine and oak understory.
4130 - Aspen	Low Density Sapling	41.6	1		Will be planted to red pine. ORV trail in stand. FTP#C72-647
4132 - Aspen, Jack Pine	Medium Density Pole	6.0	43		Pretty good oak understory.
42220 - Natural Jack Pine	Medium Density Pole	8.3	68		Old buffer?
4191 - Mixed Upland Deciduous with Conifer	Low Density Sapling	145.9	6		Some residual slash left from harvest. Advanced regen and cherry brush present.
4199 - Other Mixed Upland Deciduous	High Density Pole	6.8	62	81-110	A narrow strip of aspen, oak, and red maple.
42121 - Planted Jack Pine, Mixed Deciduous	High Density Sapling	107.8	17		A jack pine plantation with pockets of aspen.
4130 - Aspen	High Density Sapling	39.3	6		A regenerating aspen stand.
42220 - Natural Jack Pine	High Density Pole	23.7	86	81-110	Over mature jack pine stand, an excellent oak understory.
42110 - Planted Red Pine	High Density Pole	10.8	49	111-140	A red pine plantation.
4130 - Aspen	Low Density Sapling	16.2	1		This stand is scheduled for trenching and planting (red pine)
42250 - Pine, Oak	High Density Log	20.7	65	111-140	This stand was in the middle of two other stands that were cut out of entry during the red pine project.
4131 - Aspen, Oak	High Density Pole	27.7	44	51-80	Variable stand, looks like several small fuel wood jobs have occurred in stand.
	Level 4 Cover Type 4131 - Aspen, Oak 4131 - Aspen, Oak 4310 - Pine, Oak Mix 4130 - Aspen 4130 - Aspen 4130 - Aspen 4130 - Aspen 4132 - Aspen, Jack Pine 4132 - Natural Jack Pine 4191 - Mixed Upland Deciduous with Conifer 4199 - Other Mixed Upland Deciduous With Conifer 4199 - Other Mixed Upland Deciduous 42121 - Planted Jack Pine, Mixed Deciduous 42121 - Planted Jack Pine, Mixed Deciduous 4130 - Aspen 42220 - Natural Jack Pine 4130 - Aspen 42110 - Planted Red Pine 4130 - Aspen	Cover TypeDensity4131 - Aspen, OakLow Density Sapling4131 - Aspen, OakHigh Density Pole4310 - Pine, Oak MixHigh Density Log4130 - AspenHigh Density Sapling4130 - AspenHigh Density Pole42220 - Natural Jack PineHigh Density Pole4132 - Aspen, Jack Pine PineMedium Density Pole42220 - Natural Jack PineMedium Density Pole4191 - Mixed Upland Deciduous with ConiferLow Density Sapling4199 - Other Mixed Upland DeciduousHigh Density Pole42121 - Planted Jack Pine, Mixed DeciduousHigh Density Sapling4130 - AspenHigh Density Sapling42220 - Natural Jack PineHigh Density Pole42110 - Planted Red PineHigh Density Pole42110 - Planted Red PineHigh Density Pole42110 - Planted Red PineHigh Density Pole42110 - Planted Red PineHigh Density Sapling42250 - Pine, OakHigh Density Sapling	Level 4 Cover Type Size Density Acres 4131 - Aspen, Oak Low Density Sapling 32.5 4131 - Aspen, Oak High Density Pole 50.0 4310 - Pine, Oak Mix High Density Log 11.5 4130 - Aspen High Density Sapling 29.8 4130 - Aspen High Density Pole 10.6 4130 - Aspen Low Density Pole 10.6 4132 - Aspen, Jack Pine Pine Medium Density Pole 6.0 41220 - Natural Jack Pine Medium Density Pole 8.3 4191 - Mixed Upland Deciduous with Conifer Low Density Sapling 145.9 4199 - Other Mixed Upland Deciduous High Density Pole 6.8 42121 - Planted Jack Pine, Mixed Deciduous High Density Sapling 107.8 42120 - Natural Jack Pine High Density Pole 23.7 42110 - Planted Red Pine High Density Pole 10.8 42110 - Planted Red Pine High Density Sapling 10.8 42250 - Pine, Oak High Density Sapling 20.7 4131 - Aspen, Oak High Density High Density 20.7	Level 4 Cover Type Size Density Acres Stand Age 4131 - Aspen, Oak Low Density Sapling 32.5 5 4131 - Aspen, Oak High Density Sapling 50.0 51 4310 - Pine, Oak Mix High Density Log 11.5 91 4130 - Aspen High Density Sapling 29.8 18 4130 - Aspen High Density Pole 26.9 69 42220 - Natural Jack Pine High Density Pole 10.6 76 4132 - Aspen, Jack Pine Medium Density Pole 6.0 43 42220 - Natural Jack Pine Medium Density Pole 8.3 68 4191 - Mixed Upland Deciduous with Conifer Low Density Pole 8.3 68 4199 - Other Mixed Upland Deciduous With Conifer Low Density Pole 6.8 62 4199 - Other Mixed Upland Deciduous High Density Pole 10.8 62 42110 - Planted Red Pine High Density Sapling 10.8 42 42121 - Planted Red Pine High Density Pole 23.7 86 42210 - Natural Jack Pine High Density Pole <	Level 4 Cover Type Size Density Density Acres Stand Age BA Range 4131 - Aspen, Oak Low Density Sapling 32.5 5 4131 - Aspen, Oak High Density Pole 50.0 51 51-80 4310 - Pine, Oak Mix High Density Log 11.5 91 111-140 4130 - Aspen High Density Sapling 29.8 18 4130 - Aspen High Density Pole 26.9 69 4130 - Aspen Low Density Pole 10.6 76 4132 - Aspen, Jack Pine Medium Density Pole 6.0 43 41220 - Natural Jack Pine Medium Density Pole 8.3 68 4191 - Mixed Upland Deciduous with Conifer Low Density Pole 6.8 62 81-110 4199 - Other Mixed Upland Deciduous High Density Pole 6.8 62 81-110 4130 - Aspen High Density Pole 107.8 17 4130 - Aspen High Density Pole 23.7 86 81-110 42220 - Natural Jack Pine High Density Pole 10.8 49 111-1

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a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
22	4123 - Red Oak	High Density Log	15.5	89	81-110	A mature oak ridge. Evidence of illegal fuel wood cutting.
23	42220 - Natural Jack Pine	High Density Pole	23.2	68		New stand added. 2 age classes of jack pine present. Average quality northern pin oak understory.
24	42220 - Natural Jack Pine	Medium Density Pole	1.1	40		Majority of stand on a hillside.
25	4130 - Aspen	High Density Pole	31.7	58		Aspen and oak are starting to decline.
27	4130 - Aspen	High Density Sapling	168.5	25		A regenerating aspen stand.
28	4130 - Aspen	High Density Pole	12.9	58		A pole size aspen stand.
29	42120 - Planted Jack Pine	High Density Sapling	121.3	30		Jack pine plantation.
31	4131 - Aspen, Oak	High Density Pole	149.2	84	81-110	A mixed stand. White pine seeding in- in the east, areas w/ a heavy red maple understory.
32	4310 - Pine, Oak Mix	High Density Log	24.0	66	81-110	Good red pine with average to below average oak.
33	42220 - Natural Jack Pine	High Density Pole	29.2	46	111-140	A variable mixed pine stand. Trees aged out from 30's to 70's
34	42210 - Natural Red Pine	High Density Log	25.5	65	81-110	A natural red pine stand. Variable in size and quality.
35	4131 - Aspen, Oak	Low Density Sapling	118.6	5		A regenerating aspen/oak/red maple stand w/ multiple sawlog size class islands. Canopy cover is closer to 50%. Advanced red pine and white pine present throughout. A kettle hole in stand.
36	4130 - Aspen	High Density Pole	17.8	36	111-140	Average quality aspen stand. A red pine and oak pocket is present in stand along the power line(approx 1 acre).
37	4199 - Other Mixed Upland Deciduous	Medium Density Log	0.1	86		Possible fence/garden tresspass.
38	42220 - Natural Jack Pine	High Density Pole	9.7	44	51-80	A natural jack pine stand.
39	42220 - Natural Jack Pine	Low Density Pole	11.7	38	1-50	Open area slowly filling in with jack pine.
40	4199 - Other Mixed Upland Deciduous	High Density Log	6.8	104	51-80	A mature mixed stand.

5 - Forested Stands

Grayling Mgt. Unit

Compartment: 010

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a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:			
41	4130 - Aspen	High Density Sapling	86.5	26		Birch, big tooth aspen and other misc species found throughout.			
42	4133 - Aspen, Mixed Pine	High Density Pole	37.9	45	81-110	A mixed upland stand.			
43	42110 - Planted Red Pine	High Density Pole	20.7	49	111-140	A recently thinned red pine stand.			
44	42210 - Natural Red Pine	Low Density Log	55.9	64	1-50	This stand was shelterwooded last entry year. Extensive illegate trails throughout stand created by individuals cutting fire wood			
46	4119 - Mixed Northern Hardwoods	High Density Log	27.2	115	111-140	An outstanding example of an excellent quality northern hdwd stand. Small ponds present, majority hold water seasonaly.			
47	42110 - Planted Red Pine	High Density Pole	4.1	49	141-170	A recently thinned red pine stand. Very little understory.			
49	42200 - Natural White Pine	Low Density Pole	8.0	50	1-50	Open grown white pine that has filled in an old open area.			
51	42260 - Natural Pine, Mixed Deciduous	High Density Log	11.4	91	111-140	Pockets of low areas. Thick understory. Northern portions are primarily made up of pole size white pine.			
52	4130 - Aspen	High Density Pole	135.9	26	81-110	A variable stand.			
53	6112 - Lowland Aspen	High Density Pole	16.1	92		New stand added. Small "feeder" stream runs through stand.			
55	4199 - Other Mixed Upland Deciduous	High Density Log	94.2	95	81-110	A variable mixed stand. Good quality oak and aspen.			
57	4130 - Aspen	High Density Sapling	27.4	3		A regenerating aspen stand. Looks like pine was not harvested.			
58	4130 - Aspen	High Density Sapling	6.7	18		A regenerating aspen pocket.			
59	4199 - Other Mixed Upland Deciduous	High Density Pole	10.3	28	51-80	A well established younger oak component present.			
61	4130 - Aspen	High Density Sapling	25.5	18		A regenerating aspen stand.			
62	4123 - Red Oak	High Density Log	44.5	98	51-80	Looks like a previous harvest removed all species except oak. There is some epicormic branching.			
63	4125 - Black, N. Pin Oak	Medium Density Log	9.1	95	51-80	Oak stand, majority of other species removed.			
64	4131 - Aspen, Oak	High Density Pole	63.2	36	81-110	A above average aspen/oak stand. Areas of extreme hills and valleys. Some spots on hills look like they were not harvested.			

5 - Forested Stands

Compartment: 010

Grayling Mgt. Unit

s t	Graylin	g Mgt. Unit		5 – Fo	orested Sta	nds Compartment: 010 Year of Entry: 2013
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
66	42210 - Natural Red Pine	High Density Log	8.5	89	111-140	A natural red pine stand with black oak and white pine. White pine starting to establish in understory.
68	4130 - Aspen	Medium Density	12.6	4		Salvage area. Tornado damage from 2007

6 - Nonforested Stands

Compartment: 010 Year of Entry: 2013



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
1	629 - Mixed non-forested wetland	3.0	No	Unspecified	
4	50 - Water	37.2	N\A	Unspecified	Muskrat Lake
19	122 - Road/Parking Lot	1.8	N\A	Unspecified	ORV parking lot.
26	3204 - Mast Producing Shrub	6.9	N\A	Unspecified	Open area slowly filling in. Road is an old rr grade.
30	3203 - Upland Blueberry	2.0	N\A	Unspecified	A blueberry opening.
45	122 - Road/Parking Lot	1.9	N\A	Unspecified	County Road 608
48	3102 - Grass	7.6	N\A	Unspecified	A grass stand filling in with white pine and jack pine.
50	3102 - Grass	1.8	N\A	Unspecified	Grassy opening.
54	6229 - Mixed lowland shrub	31.1	N\A	Unspecified	"Cedar Lake" Blueberry and grasses mixed in with open water.
56	6229 - Mixed lowland shrub	1.3	N\A	Unspecified	Very wet.
60	6233 - Wet Meadow	11.1	N\A	Unspecified	Water levels look to fluctuate seasonaly.
65	6229 - Mixed lowland shrub	2.3	N\A	Unspecified	Red pine and paper birch present as well.
67	3102 - Grass	12.6	Yes	Unspecified	Maintained opening.

Grayling Mgt. Unit

Compartment: 010 Year of Entry: 2013



7 - PROPOSED SPECIAL CONSERVATION AREA* (SCA) DETAILS

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

Stand	SCA Type	SCA Name	Acres	Comments

Grayling Mgt. Unit

Compartment: 010 Year of Entry 2013



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	Туре	Description	ERA = Ecological Reference Area HCVA = High Conservation Value Area SCA = Special Conservation Area	
HCVA	Designated Critical Habitat	U.S. Fish and Wildlife service for the recovery of threatened 365, Endangered Species Protection, of the Natural Resour PA 451, and the Federal Endangered Species Act of 1973.	areas are established via a consultative and cooperative process between the DNR and the Wildlife service for the recovery of threatened and endangered species, as governed by Part red Species Protection, of the Natural Resources and Environmental Protection Act, 1994 he Federal Endangered Species Act of 1973. This is an active program, with proposed in various stages of review. As of now only two exist, Kirtland Warbler Habitat and Piping	