



Compartment Review Presentation

Grayling Forest Management Unit

Compartment 72262

Entry Year 2017

Acreage: 1,923

County Crawford

Management Area: Camp Grayling

Revision Date: 2015-02-10

Stand Examiner: Thomas Barnes

Legal Description:

T27N R2W Sections 10, 11, 12

Identified Planning Goals:

To provide an area that allows for National Guard training while maintaining forest health, productivity, sustainability, species diversification, and structural diversity throughout the compartment.

Soil and topography:

The soils are Grayling/Graycalm sand in section 10; Grayling/Graycalm and Klacking sand in section 11; Grayling/Graycalm and Kellogg sand in section 12. The area is flat in section 10 and 11 with the terrain becoming lightly rolling in section 12.

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

All state land in compartment is either Military Board Land (160 acres) or is under long term lease (1762 acres) to the Camp Grayling National Guard (L-1479) for purposes of military training. On Military Board lands military training has precedence over resource management activities. The DNR will coordinate all prescribed activities with the National Guard to ensure they are compatible with military training needs. On long-term lease lands the area is under the 1935 long-term lease agreement L-1479 (Act 154 P. A. 1935) with the Michigan National Guard, Department of Military Affairs. The agreement provides for use by the military during their encampment, with no permanent buildings or improvements to be erected. Military needs take precedence over resource management needs on long-term lease lands. The DNR will coordinate all prescribed activities with the National Guard to ensure they are compatible with military training needs.

Unique Natural Features:

Several occurrences of threatened and endangered species occur in and around the compartment.

Archeological, Historical, and Cultural Features:

The compartment is used by the National Guard for military activities that are consistent with the long-term lease agreement L-1479. The Range 30 Impact Area (fenced) is located 1 ½ miles southwest of the compartment.

Special Management Designations or Considerations:

Section 10 is in the North Camp Grayling Pine Barrens Area. Treatments for this area are based on the "North Camp Grayling Pine Barrens Management Plan" prepared by the Michigan Natural Features Inventory on January 28, 2000; Report 2000-02. Current treatments are based on specific reference to the section entitled "Management" found on pages 10 – 18. In general, the management objectives are to reduce the overall jack pine cover type; reduce the sizes of the patches of jack pine; increase vegetative diversity by planting red pine and white pine; reduce exotic species; increase native species; maintain or increase rare species. This can be accomplished through a series of cutting, burning and planting.

Watershed and Fisheries Considerations:

Duck Lake is just to the west of the compartment. It is 12 acres in size. There is no swamp or wetland associated with the lake.

Wildlife Habitat Considerations:

Section 10 is part of the North Camp Grayling Pine Barrens Area. Section 11 is an area that has been managed for ruffed grouse. Section 12 is managed for long rotation red pine.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of ice-contact sand and gravel. The glacial drift thickness varies between 400 and 800 feet. Beneath the glacial drift is the Coldwater Shale. The Coldwater Shale does not have a current economic use. A gravel pit

is located in section 24, State's Bald Hill Gravel Pit, and potential is good on the upland areas. A clay pit is located in T27N R01W section 07, just east of the compartment. It is current in the process of being leased to the Crawford County Road Commission. The compartment is located two miles north of the Conner's Marsh Field. The field has produced 20 Bcf gas from the Ordovician Prairie du Chien. There are no oil and gas leases in this compartment, as it is within the military area.

Vehicle Access:

The compartment is accessed by Wakeley Bridge Road, Bucks East and West Trail, and Lewiston Grade Road. All of these roads are dirt County maintained roads. Bald Hill Road (a dirt County maintained road) is located just to the east of the compartment. Additional access is provided by numerous forest trails. No additional roads are needed at this time. There should be consideration for closing some forest trails after treatments are completed. There are five gates that are maintained by the National Guard to secure the area from vehicular traffic. All new roads created through management activities are to be closed upon completion. No existing roads have been identified for closure.

Survey Needs:

No survey needs are anticipated at this time.

Recreational Facilities and Opportunities:

Dispersed recreational use occurs throughout the compartment.

Fire Protection:

Section 10 is jack pine and oak/jack pine. Section 11 is various ages of aspen and oak. Section 12 is saw log-sized red pine. Access for fire suppression apparatus is via Bald Hill Road. Some of the roads and trails are sandy and hilly slowing response time.

Additional Compartment Information:

LOTS Compartment Acreage: 1920.

The following reports from the Inventory are attached:

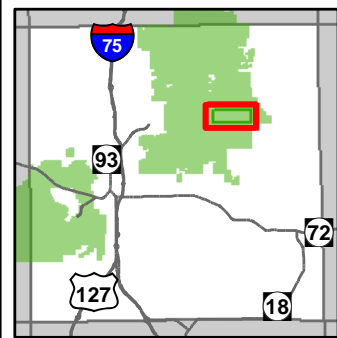
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

The following information is displayed, where pertinent, on the attached compartment maps:

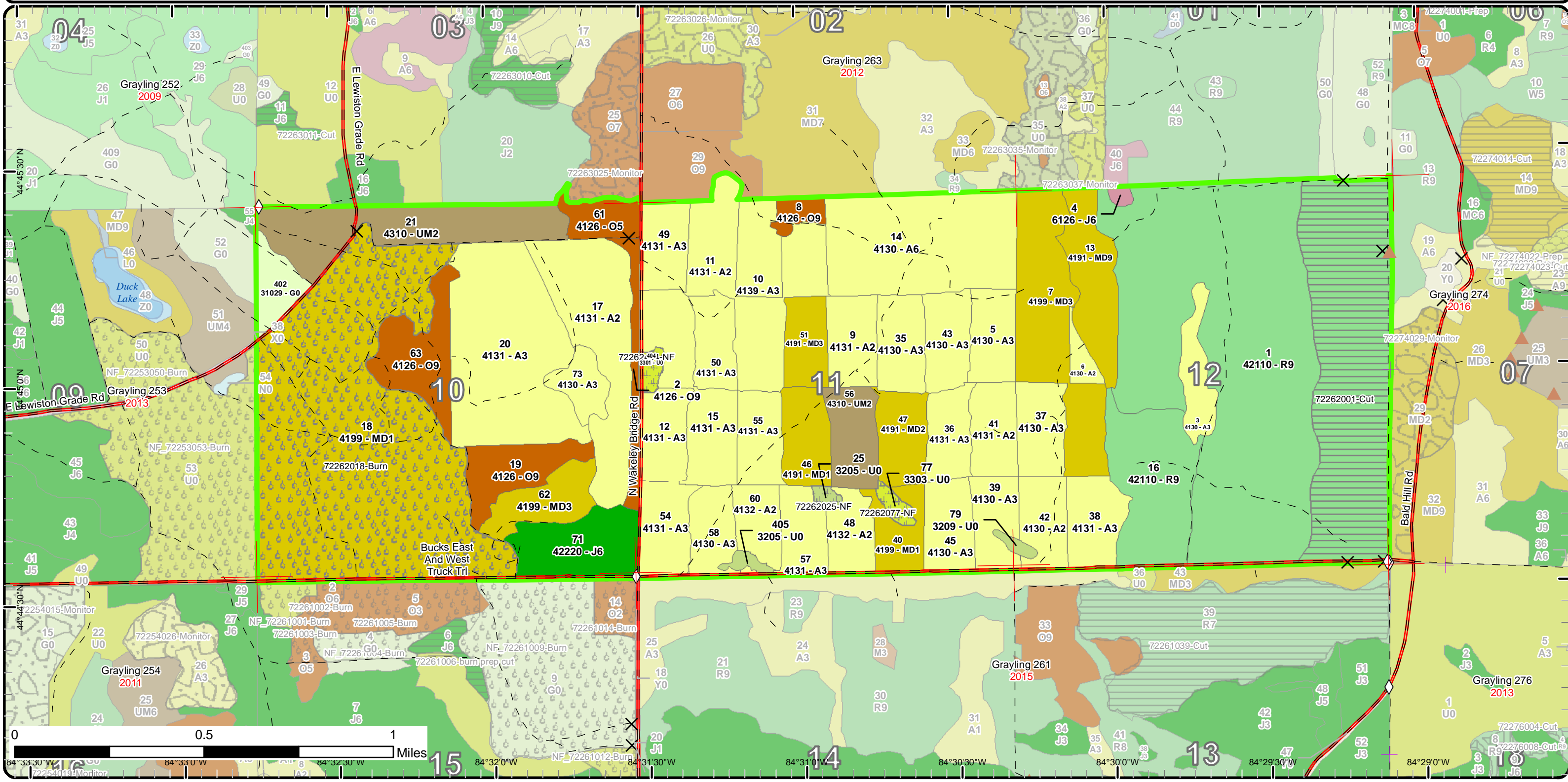
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 262
 T27N R02W 10-12
 County: Crawford
 Unit: Grayling
 Mgmt Area: Camp Grayling
 YOE: 2017
 Acres: 1923 GIS Calculated
 Examiner: Thomas Barnes
 Map Revised: 5/17/2016
 Map Phase: Post-Review

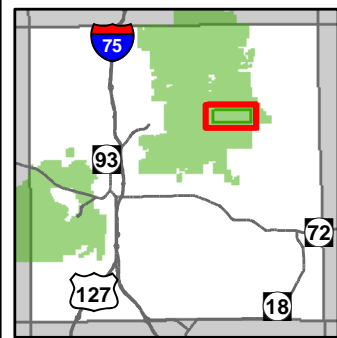


- Miris Corners
- + Remonumented Section Corners
- ◇ Field Grade GPS Corners
- X Gate
- ▲ Berms
- County Gravel Roads
- - Poor Dirt Roads
- Rivers
- Compartment Boundary
- Clearcut (w/Reserves)
- Other Treatment - See Comments
- Prescribed Burn
- 412 - Oak Types
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 430 - Upland Mixed Fores
- 612 - Lowland Coniferous Forest
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 330 - Low Density Trees
- Lakes

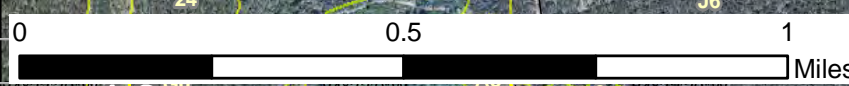
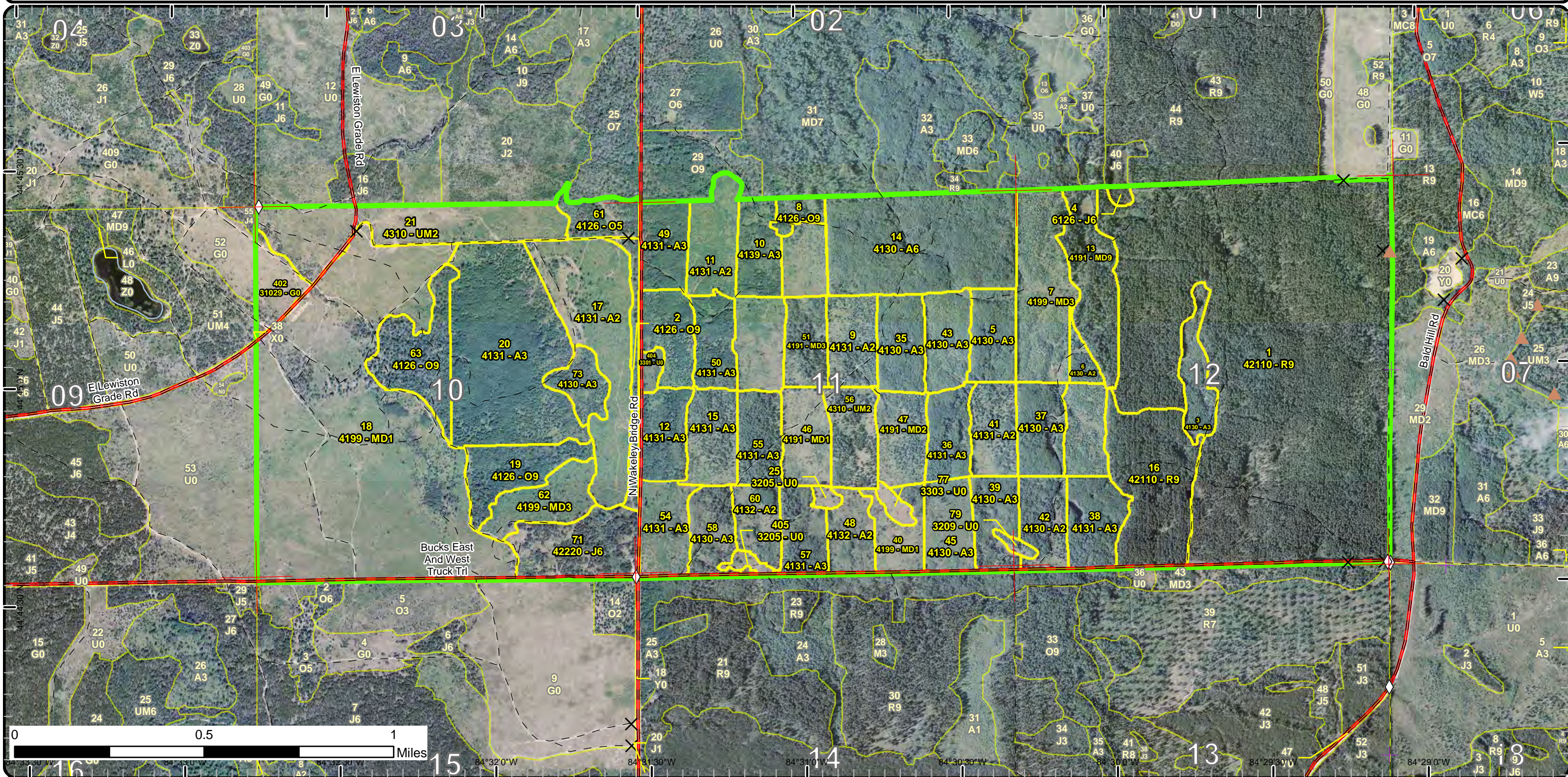


Stand Boundary Map

Compartment: 262
 T27N R02W 10-12
 County: Crawford
 Unit: Grayling
 Mgmt Area: Camp Grayling
 YOE: 2017
 Acres: 1923 GIS Calculated
 Examiner: Thomas Barnes
 Map Revised: 5/17/2016
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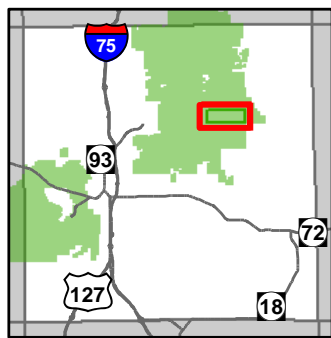
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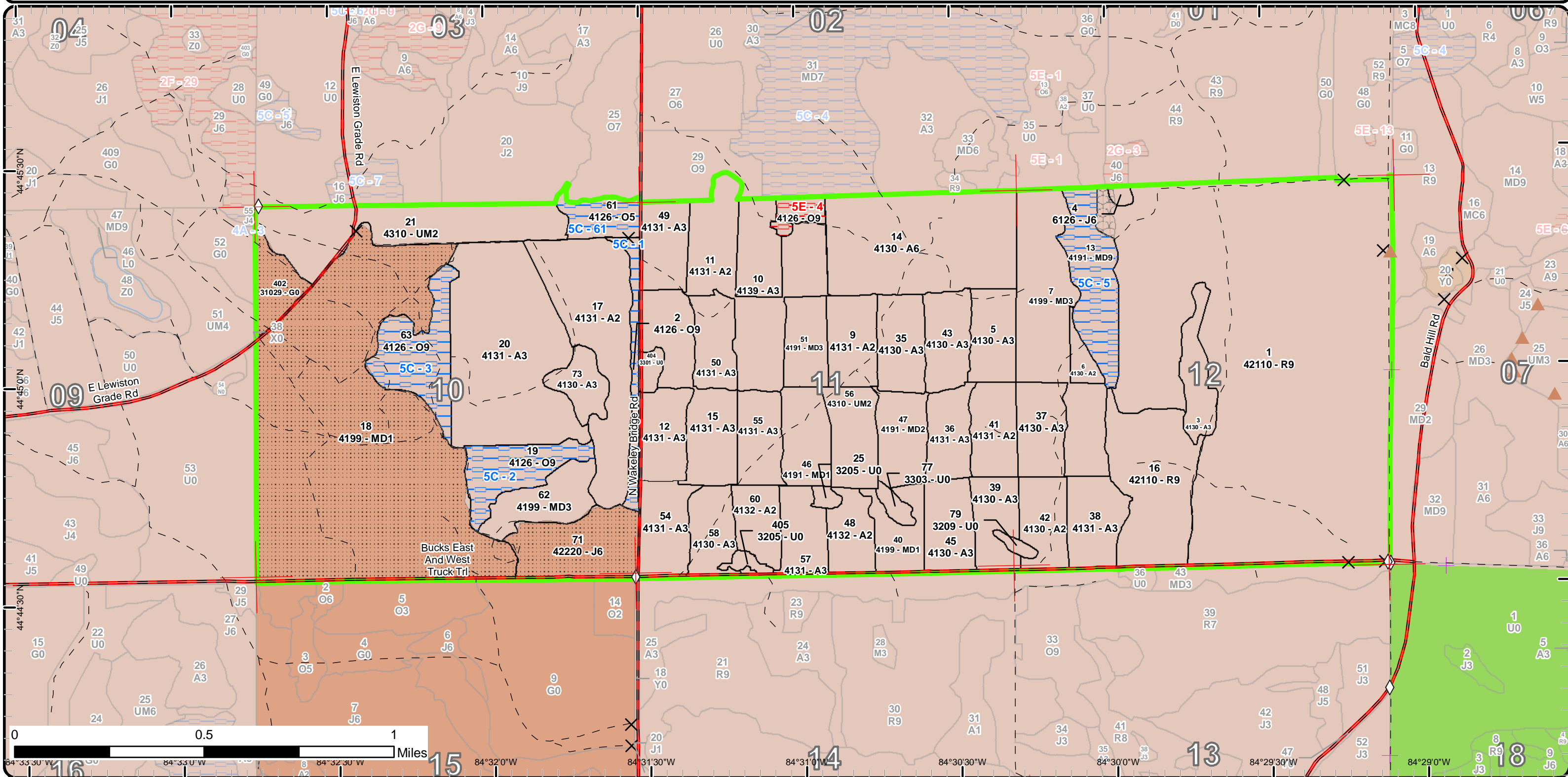
84°33'30"W
84°32'0"W
84°31'0"W
84°30'0"W
84°29'30"W
84°29'0"W

Special Conservation Areas & Site Conditions Map

Compartment: 262
 T27N R02W 10-12
 County: Crawford
 Unit: Grayling
 Mgmt Area: Camp Grayling
 YOE: 2017
 Acres: 1923 GIS Calculated
 Examiner: Thomas Barnes
 Map Revised: 5/17/2016
 Map Phase: Post-Review



- Miris Corners
- + Remonumented Section Corners
- ◇ Field Grade GPS Corners
- X Gate
- ▲ Berms
- County Gravel Roads
- - Poor Dirt Roads
- Rivers
- ▭ Compartment Boundary
- SCA
- SCA Removal
- Available w/ Constraints
- Unavailable
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 5E: Long-Term Retention
- Stand Boundaries
- Special Conservation Areas
- Kirtland Warbler Habitat
- Research, Development, and Military Lands
- Sand or Gravel Pit
- Sand or Gravel Pit
- Other Habitat Area
- Other SCA (No Category Assigned)



Report 1 – Total Acres by Cover Type and Age Class

Grayling Mgt. Unit

Compartment 262 Year of Entry 2017

Thomas Barnes : Examiner



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	183	139	360	83	12	0	0	0	0	0	0	0	0	0	0	0	0	777
Herbaceous Openland	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14
Jack Pine	0	0	0	0	2	35	0	0	0	0	0	0	0	0	0	0	0	0	37
Low-Density Trees	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Mixed Upland Deciduous	0	345	42	34	0	0	0	0	0	33	0	0	0	0	0	0	0	0	454
Oak	0	0	0	0	0	0	0	0	0	13	74	0	0	0	0	0	0	0	87
Red Pine	0	0	0	0	0	0	0	0	460	0	0	0	0	0	0	0	0	0	460
Upland Mixed Forest	0	58	0	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	80
Upland Shrub	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Total	30	586	181	416	85	47	0	0	460	46	74	0	0	0	0	0	0	0	1925



Report 2 – Treatment Summary

Grayling Mgt. Unit

Year of Entry: 2017

Acres of Harvest

Compartment 262

Total Compartment Acres: 1,923

Commercial Harvest - 139
 Harvests with Site Condition - 0
 Next Step Harvest - 0
 Habitat Cut - 0

Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Red Pine	139	0	0	0	0	0	0	0	0	139
Total	139	0	0	0	0	0	0	0	0	139

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	139	0	0	0	261	0	0	0	10	410
Next Step	0	0	0	0	0	0	399	0	0	399
Total	139	0	0	0	261	0	399	0	10	809



Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
1	72262001-Cut	138.5	42110 - Planted Red Pine	Sawtimber Well	77	81-110	Harvest	Clearcut with Retention	4122 - Oak, Pine	Even-Aged	Proposal

Habitat Cut: No

Site Condition:

Prescription Final harvest stand over the next 20 years, do one third this year of entry, another third in 2027 and last in 2037. Follow standard retention
Specs: guidelines during the course of this treatment. Also include military and regen protection specs in contract.

Next Step
Treatments:

Acceptable Medium to well stocked stand of oak with mixed associated species including red pine and maple.
Regen:

Other Stand has a well established understory consisting of oak, red maple, aspen and red pine. Relying on natural regeneration to populate new
Comment: stand. Harvesting stand in thirds to mitigate visual impacts as this area has had several large treatments over the past couple of entry cycles.
 Old next step comments:

Proposed Start Date: 10/1 /2016

18	72262018-Burn	261.0	4199 - Other Mixed Upland Deciduous	Sapling Poor	5	Immature	Burn	Opening	4222 - Natural Jack Pine	Even-Aged	Proposal
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Habitat Cut: No

Site Condition:

Prescription Burn as per Camp Grayling Pine Barrens Plan.
Specs:

Next Step
Treatments:

Acceptable
Regen:

Other Old next step comments:
Comment:

Proposed Start Date: 10/1 /2016

25	72262025-NF	2.3	3205 - Mixed Upland Shrub	Nonstocked		Unspecified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Proposal
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Habitat Cut: No

Site Condition:

Prescription Periodic opening maintenance, as needed, that may include disking, fertilizing, food plot seeding, no-till prairie grass drill seeding, planting of
Specs: mast trees, mowing, brushing, burning and herbicide application.

Next Step
Treatments:

Acceptable
Regen:

Other Old next step comments:
Comment:

Proposed Start Date: 10/1 /2016

77	72262077-NF	3.8	3303 - Mixed Low Density Trees	Nonstocked		Unspecified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Proposal
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Habitat Cut: No

Site Condition:

Prescription Periodic opening maintenance, as needed, that may include disking, fertilizing, food plot seeding, no-till prairie grass drill seeding, planting of
Specs: mast trees, mowing, brushing, burning and herbicide application.

Next Step
Treatments:

Acceptable
Regen:

Other Old next step comments:
Comment:

Proposed Start Date: 10/1 /2016



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
404	72262404-NF	4.1	3301 - Low Density Deciduous Trees	Nonstocked		Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Proposal

Habitat Cut: No

Site Condition:

Prescription Periodic opening maintenance, as needed, that may include disking, fertilizing, food plot seeding, no-till prairie grass drill seeding, planting of
Specs: mast trees, mowing, brushing, burning and herbicide application.

Next Step
Treatments:

Acceptable
Regen:

Other Old next step comments:
Comment:

Proposed Start Date: 10/1 /2016

**Total Treatment
 Acreage Proposed: 409.7**

Report 5 – Site Conditions

Grayling Mgt. Unit

Thomas Barnes : Examiner

Compartment: 262

Year of Entry: 2017

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions		
		With Condition	Not Available	5C	5E	
777	777	0	0	Aspen		
14	14	0	0	Herbaceous Openland		
37	37	0	0	Jack Pine		
8	8	0	0	Low-Density Trees		
453	421	33	0	Mixed Upland Deciduous	33	
87	3	78	6	Oak	78	6
460	460	0	0	Red Pine		
79	79	0	0	Upland Mixed Forest		
8	8	0	0	Upland Shrub		
1,923	1,806	111	6	Total Forested Acres	111	6
	94%	6%	0%	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.*

Site No.	Dominant Site Cond	Dominant Site Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	11	Unspecified	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Narrow strip left along Wakeley Bridge Road for visual management.								
2	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	24	Unspecified	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Area have received significant treatments in the past inventory cycle, stand will provide good mast production for wildlife as well as vertical structure. Treat in next inventory cycle.								

Report 5 – Site Conditions

Grayling Mgt. Unit

Thomas Barnes : Examiner

Compartment: 262

Year of Entry: 2017

3	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	32	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Delay for next inventory cycle, stand will provide good mast for wildlife and nice vertical structure for this area.							
4	Unavailable	5E: Long-Term Retention	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Was left as retention from prior harvest.							
5	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	33	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Treat stand when Stand 1 is treated.							
61	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Treat next cycle, will provide good mast for wildlife.							



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
Block 3B Camp Grayling Pine Barrens Management Area	Habitat Areas or Corridors	Other Habitat Area	Proposed SCA	311
Comments				
Prescribe burn according to Camp Grayling Pine Barrens Plan.				



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.

ERA = Ecological Reference Area
 HCVA = High Conservation Value Area
 SCA = Special Conservation Area

Conservation Area	Type	Description
SCA	Research and Military Areas	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.
HCVA	Designated Critical Habitat	Critical habitat areas are established via a consultative and cooperative process between the DNR and the U.S. Fish and Wildlife service for the recovery of threatened and endangered species, as governed by Part 365, Endangered Species Protection, of the Natural Resources and Environmental Protection Act, 1994 PA 451, and the Federal Endangered Species Act of 1973. This is an active program, with proposed species plans in various stages of review. As of now only two exist, Kirtland Warbler Habitat and Piping Plover Habitat.
ERA	Ecological Reference Areas	Ecological Reference Areas (ERAs) are high quality examples of natural communities that have been identified as Element Occurrences (EOs) by the Michigan Natural Features Inventory (MNFI) within the context of their natural community classification system. Element Occurrences with viability ranks of A (Excellent) or B (Good) and a Global (G) or State (S) element (rarity) ranking of endangered (1), threatened (2), or rare (3) serve as an initial base of ERAs. They may be located upon any ownership in the State. The system is comprised of individual or associations of natural community types that are managed for restoration and maintenance of natural ecological processes and values. The public may submit recommendations for lands as ERAs using the DNR Conservation Area Recommendation Form.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	42110 - Planted Red Pine	Sawtimber Well	404.5	77	81-110	Sale was thinned under contract #726200701 "BALD BUCKS RP" Cut 2010. Stand is still growing fairly well since the last thinning in 2010, from the old OI notes only the East portion of stand was treated, east of stand 3. West portion was not treated due to lower BA's, treatment was to thin down to 80-90 BA and scarify the site with logging equipment to help promote natural regeneration. Natural regen is coming back, tough to tell just how well because of snow depth, however, there were enough red pine seedling above snow line to record and one skid trail is basically a green river of seedlings very thick. Also a landing with dog hair thick red pine saplings. Site indexed ranged between 56 and 67, stand has rolling topography. Old treatment called for girdling of 3 trees per acre, majority of girdled trees observed during inventory had over grown the girdle. Understory had good advanced oak regeneration of both white and hybrid oak over most of the stand, along the west side of stand more red maple and aspen in sub canopy. Eleven BA swings were taken with a stand average of 91 and average diameter was 14. Suggest holding stand for another 10 years then treat with final harvest.
2	4126 - White, Black, N. Pin Oak	Sawtimber Well	11.4	97	1-50	Narrow strip of mixed oak with associated species along Wakeley Bridge Road when parent stand was harvested in during the span of 2007-2010 under contract 72-603-07-01 "Chaotic Pinus Quercus". Stand has low BA, 4 BA plots were taken with a stand average of 38, individual BA for species were Hybrid Oak 20, white oak 5, red maple 8 and aspen 5. In areas of low canopy closure the sub canopy is pushing 20 feet. Ground cover not visible due to snow conditions. Majority of this stand is PARVHa/PArVVB. Site index for this site was 50.
3	4130 - Aspen	Sapling Well	15.8	28	Immature	Stand was treated under contract # 72--028-87-01, (Plantation Block). Stand located in the middle of a red pine stand, stand has good stem density. Stand is equal parts PARVHa/PArVVb and PARVHa.
4	6126 - Lowland Jack Pine	Poletimber Well	1.8	32	Immature	Scattered small jack pine growing in a leather-leaf bog.
5	4130 - Aspen	Sapling Well	19.0	25	Immature	This stand is part of timber sale # 72-068-87-01, (Checkerboard Block) and cut in 1988/1989. Good looking stand with a good component of mast producing species.
6	4130 - Aspen	Sapling Medium	5.5	17	Immature	Stand was cut under contract # 048-97-01 Wakeley Grouse Block 1998 also cut in 1998. The stand has sparse stem densities and is of poor form.
7	4199 - Other Mixed Upland Deciduous	Sapling Well	62.4	6	Immature	Stand was cut under contract #726040701 checkerboard in 2008. Young stand is regenerating nicely and passes the regen survey. Old OI stands 82 and 44 were merged into this stand and those other two stands also pass their regen survey.
8	4126 - White, Black, N. Pin Oak	Sawtimber Well	6.5	93	1-50	Area was not harvested during the past treatment, no notes as to whether this stand was left as retention or not. Going to consider stand a retention and code accordingly. Stand is of fair quality. Three BA swings were taken with a stand average of 33.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
9	4131 - Aspen, Oak	Sapling Medium	20.4	16	Immature	Area cut during 1998/99 under contract #048-97-01 Wakeley Grouse Block. Fairly descent stem density with some clumps of oak left.
10	4139 - Aspen, Mixed Deciduous	Sapling Well	18.2	25	Immature	This stand is part of timber sale # 72-068-87-01 (Checkerboard Block) and cut in 1988/1989. Stand has moderate density and trees are reflective of the lower density.
11	4131 - Aspen, Oak	Sapling Medium	58.9	7	Immature	Stand harvested under contract 726040701 checkerboard. Regenerating to mixture of aspen, oak and maple. Stand passes the regen survey.
12	4131 - Aspen, Oak	Sapling Well	19.9	25	Immature	This stand was part of timber sale # 72-068-87-01, (Checkerboard Block) and cut in 1988/1989. Good looking stand at the limits of a sapling stand.
13	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	32.6	87	51-80	Mixed stand of oak and pine, stems are of fair quality (oak) pine is in good form. Stand is just coming into the log size category. Hold and treat when stand one is treated. Three BA swings were taken with a stand average of 75. Site index for oak was 52 and for red pine was 62.
14	4130 - Aspen	Poletimber Well	83.5	37	51-80	Good stem density and form, majority of the stand is conk free, however, there are a few small pocket of conks starting to show. Stand should hold for next inventory cycle.
15	4131 - Aspen, Oak	Sapling Well	41.6	16	Immature	Stand cut in 1999 under contract #048-97-01 Wakeley Grouse Block also cut in 1999. Very nice stand with high stem densities, dog hair thick.
16	42110 - Planted Red Pine	Sawtimber Well	55.1	77	81-110	Site indexed ranged between 56 and 67, stand has rolling topography. Understory has some oak and red pine in the seedling stage. Suggest holding stand for another 20 years then treat with final harvest.
17	4131 - Aspen, Oak	Sapling Medium	62.3	5	Immature	Sale harvested over multiple years under contract 726030701 "Chaotic Pinus Quercus" Stand was also part FTP C72-641, but excluded from the 2012 burn. Stand passes the regen survey and is coming back nicely as a mixed stand.
18	4199 - Other Mixed Upland Deciduous	Sapling Poor	261.0	5	Immature	Sale harvested over mutiple years under contract 726030701 "Chaotic Pinus Quercus" FTP C72-641 and was burned in summer/fall of 2012. This stand is in the North Camp Grayling Pine Barrens Area. Stand is right at the border of forested versus non-forested but overall appearance is the stand is forested at the 25% level. There are pockets where the prescribed fire did kill most of the woody vegetation, ground cover not visible due to snow cover. All stands from the prior inventory pass the regen survey of the acceptable combined species.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
19	4126 - White, Black, N. Pin Oak	Sawtimber Well	24.3	90	51-80	Small sawlog stand can hold for another ten years, stand will provide good mast production and vertical structure in an area that has been heavily harvested. Four BA swings were taken with a stand average of 73 individual BA for White oak, oak, red maple, jack pine and bigtooth aspen were 25, 27, 8, 5, and 8, respectively.
20	4131 - Aspen, Oak	Sapling Well	97.1	26	Immature	This stand was cut under timber sale # 72-025-88-01 (Parachute Block). Stand is progressing nicely with some larger pole sized stems along the edge bordering stand 19 and 63. There are a few pockets of low stem density.
21	4310 - Pine, Oak Mix	Sapling Medium	57.6	5	Immature	Sale harvested over multiple years under contract 726030701 "Chaotic Pinus Quercus" Stand was also part of FTP C72-641, but was excluded in the 2012 burn. This stand is in the North Camp Grayling Pine Barrens Area. East end of stand is not as heavy to jack pine as the west end of the stand. Passes regen survey.
35	4130 - Aspen	Sapling Well	20.8	25	Immature	This stand was part of timber sale # 72-068-87-01 (Checkerboard Block). Good density and stem form.
36	4131 - Aspen, Oak	Sapling Well	17.7	25	Immature	This stand was part of timber sale # 72-068-87-01 (Checkerboard Block) and cut in 1988/1989.
37	4130 - Aspen	Sapling Well	20.2	25	Immature	This stand was part of timber sale # 72-068-87-01 (Checkerboard Block) and cut in 1988/1989. Good looking stand.
38	4131 - Aspen, Oak	Sapling Well	22.3	25	Immature	This stand was part of timber sale # 72-068-87-01 (Checkerboard Block). Good looking stand with good density and form. Majority of the stand is PVCd/PArVHa.
39	4130 - Aspen	Sapling Well	18.3	25	Immature	This stand was part of timber sale # 72-068-87-01 (Checkerboard Block), cut in 1988/89. Stand has pretty good density, however, there several areas of openness or very sparse stems.
40	4199 - Other Mixed Upland Deciduous	Sapling Poor	16.7	25	Immature	This stand was part of timber sale # 72-068-87-01 (Checkerboard Block), cut in 1988/89. Stand is open grown and dominated by cherry, form is poor and reflective of the openness of the stand.
41	4131 - Aspen, Oak	Sapling Medium	19.3	17	Immature	Stand was cut under contract # 048-97-01 Wakeley Grouse Block 1998, in 1998. Moderately stocked stand with a good component of cherry and open grown stems.
42	4130 - Aspen	Sapling Medium	19.2	16	Immature	Stand was cut under contract # 048-97-01 Wakeley Grouse Block 1998. Stand has a good stem density with the exception being along Bucks East West Trail.
43	4130 - Aspen	Sapling Well	19.8	7	Immature	Stand was harvested under contract 726040701 checkerboard. Coming back with good stem density and variety of species. No understory recorded and ground vegetation was covered with snow. Stand passes its regen survey.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
45	4130 - Aspen	Sapling Well	20.4	7	Immature	Sale was cut under contract 726040701 checkerboard in 2008. Stand is regenerating well with scattered log size red pine. Stand passes its regen survey.
46	4191 - Mixed Upland Deciduous with Conifer	Sapling Poor	20.7	16	Immature	Area cut during 1998/99 under contract #048-97-01 Wakeley Grouse Block. Old OI called this stand an A2, this stand is very sparse with trees and the result is bushy poor form trees.
47	4191 - Mixed Upland Deciduous with Conifer	Sapling Medium	20.6	16	Immature	Area cut during 1998/99 under contract #048-97-01 Wakeley Grouse Block. Poor quality stand of bushy open grown stems, there is plenty of deer sign in this area.
48	4132 - Aspen, Jack Pine	Sapling Medium	16.4	16	Immature	Stand was cut under contract #048-97-01 Wakeley Grouse Block in 1998/99. Northern portion of stand is very open majority stems of poor quality from being open grown.
49	4131 - Aspen, Oak	Sapling Well	18.9	25	Immature	This stand was part of timber sale # 72-068-87-01 (Checkerboard Block), cut in 1988/1989. Nice stand bordering on pole size, good form and stem density.
50	4131 - Aspen, Oak	Sapling Well	17.4	25	Immature	This stand was part of timber sale # 72-068-87-01 (Checkerboard Block), cut in 1988/1989. Nice stand with a heavier oak component than some of the other stands, bordering on pole size. Good form and stem density.
51	4191 - Mixed Upland Deciduous with Conifer	Sapling Well	17.1	25	Immature	OPIC - FMD: This stand was part of timber sale # 72-068-87-01 (Checkerboard Block). The contract was held by U. S. Plywood and cut in 1988/1989. 08/15/2005 mm
54	4131 - Aspen, Oak	Sapling Well	21.9	7	Immature	Stand harvested under contract 726040701 checkerboard. Portion of stand along wakeley bridge rd more oak, cherry and pine. Stand passes the regen survey with current regeneration.
55	4131 - Aspen, Oak	Sapling Well	18.9	25	Immature	This stand was part of timber sale # 72-068-87-01 (Checkerboard Block). Stand is not of high density or of good quality stems.
56	4310 - Pine, Oak Mix	Sapling Medium	21.8	25	Immature	This stand was part of timber sale #72-068-87-01 (Checkerboard Block) and cut in 1988/1989. Open grown jack pine has some poles size diameter but no height. Not much aspen present, poor quality stand.
57	4131 - Aspen, Oak	Sapling Well	17.6	25	Immature	This stand was part of timber sale # 72-068-87-01 (Checkerboard Block), cut in 1988/89. Descent stand majority of aspen in the northern portion of stand, while oak and red pine are on the southern half.
58	4130 - Aspen	Sapling Well	17.9	25	Immature	This stand was part of timber sale # 72-068-87-01 (Checkerboard Block). Overall good stem density with some sparse areas mixed in good shrub component along the edges of the sparse areas.

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Grayling Mgt. Unit

Report 8 – Forested Stands

Compartment: 262
Year of Entry: 2017

	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
60	4132 - Aspen, Jack Pine	Sapling Medium	15.8	16	Immature	Stand cut in 1999 under contract #048-97-01 Wakeley Grouse Block. Fairly open stand with poor quality stems.
61	4126 - White, Black, N. Pin Oak	Poletimber Medium	13.3	82	51-80	Keep stand and treat next inventory cycle heavy treatments surround this stand will provide good mast for wildlife.
62	4199 - Other Mixed Upland Deciduous	Sapling Well	22.0	5	Immature	Sale harvested over multiple years under contract 726030701 "Chaotic Pinus Quercus" also FTP C72-641, however, this stand was not included in the 2012 burn. This stand is in the North Camp Grayling Pine Barrens Area. Good stem densities with RM being the dominate species, stand passes the regen survey. Old stand 81 had an MO of JP, fails regen but passes with other species accept the regen that is present.
63	4126 - White, Black, N. Pin Oak	Sawtimber Well	31.6	90	1-50	Adjacent to 2012 Pine Barrens burn. Four BA swings were make with a stand average of 36, individual BA's for Hybrid oak, white oak, jack pine, red maple and b aspen were 13, 8, 2, 5, and 8, respectively. Area has received heavy treatments during the last inventory cycle, going to delay treatment until the next inventory cycle. Stand will provide good mast for wildlife.
71	42220 - Natural Jack Pine	Poletimber Well	35.4	41	1-50	As per old OI comment, this is considered to be part of the Presettlement Vegetation of North Camp Grayling Jack Pine Barrens, (Comer and Albert, 1998). This is Military Board Land. Stand has a mixture of diameter classes and height and form are typical of open grown jack pine. Consider treating stand during the next inventory cycle.
73	4130 - Aspen	Sapling Well	12.5	41	Unspecified	Stand was harvested in 1974, this is a poor quality stand of large sapling small poles. Poor quality and larger stems then adjacent stand 20.



Stand	Cover Type	Acres	Managed Site	General Comments:
25	3205 - Mixed Upland Shrub	2.3	No	Ground cover not recorded cause of snow, potential wildlife opening?
77	3303 - Mixed Low Density Trees	3.8	No	Opening with scattered jack pine throughout, close to being a forested stand. Ground cover not recorded due to snow conditions. Do we want to treat as a wildlife opening?
79	3209 - Upland Shrub (OI)	2.3	No	Little valley running between stands with scattered trees getting close to being a forested stand.
402	31029 - Grass (OI)	14.3	No	Open area creeping towards forested stand. Jack pine is evenly scattered across the stand. Ground cover was not visible due to snow cover.
404	3301 - Low Density Deciduous Tree	4.1	No	Non forested stand, trees evenly scattered throughout
405	3205 - Mixed Upland Shrub	3.0	No	Open area close to being forested, no ground cover recorded due to snow conditions.