

Compartment Review Presentation

Grayling Forest Management Unit

Compartment 72233 Entry Year 2018 Acreage: 1,399

County Crawford

Management Area: AuSable Outwash

Revision Date: 2016-11-28

Stand Examiner: Matthew Foster

Legal Description:

T26N R03W Sections 22, 27, 34, 21

Identified Planning 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 soils are Grayling/Graycalm sands. The terrain is level to the south to gentle rolling and steep hills to the north.

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

The compartment is surrounded by State land except to the south. There is a 40 acre parcel in the SWSW of section 27 that is owned by the Crawford County Road Commission and is an active borrow pit.

Unique Natural Features:

Henry's elfin and Hill's thistle are located in the compartment.

Archeological, Historical, and Cultural Features:

There are no know features.

Special Management Designations or Considerations:

This area is part of the Kirtland's Warbler Management Plan.

Watershed and Fisheries Considerations:

There are no water courses in the compartment.

Wildlife Habitat Considerations:

Deer, turkey and grouse are important wildlife species in the compartment. Continue to provide treatments that will maintain the current status in the compartment. This compartment is also part of the Kirtland's Warbler Management Plan.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of ice-contact and glacial outwash sand and gravel and postglacial alluvium. The glacial drift thickness varies between 200 and 400 feet. Beneath the glacial drift is the Michigan Formation. The Michigan is quarried for gypsum elsewhere in the State. A gravel pit is located in Section 27 and potential is good. The nearest production is Beaver Creek Field, located six miles to the southwest. The field has produced over 21 MBO from the Devonian Richfield and over 5 Bcf gas from the Ordovician Prairie du Chien. The compartment is not leased for oil and gas development.

Vehicle Access:

Access is from Barker Lake Road, the snowmobile trails and numerous two-track trails. There are numerous trails that need to remain open to provide access because of the hilly terrain. No trails need to be blocked and no new trails need to be constructed.

Survey Needs:

No survey needs are anticipated.

Recreational Facilities and Opportunities:

Snowmobile Trails #487 & #489 traverse through the compartment.

Fire Protection:

Access for fire apparatus is from Barker Lake Road, the snowmobile trails and numerous two-track trails. Much of the compartment is a mixture of jack pine and oak. There are numerous trails that need to remain open to provide access because of the hilly terrain. There is a pipeline that traverses diagonally through the compartment. There are no well sites

in the compartment. The closest water source is Barker Lake, located just west of the compartment in the northeast corner of section 28.

Additional Compartment Information:

200 American chestnuts (Castanea dentata) were planted in section 34. No surviving trees can be found at this time.

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

Grayling Mgt. Unit

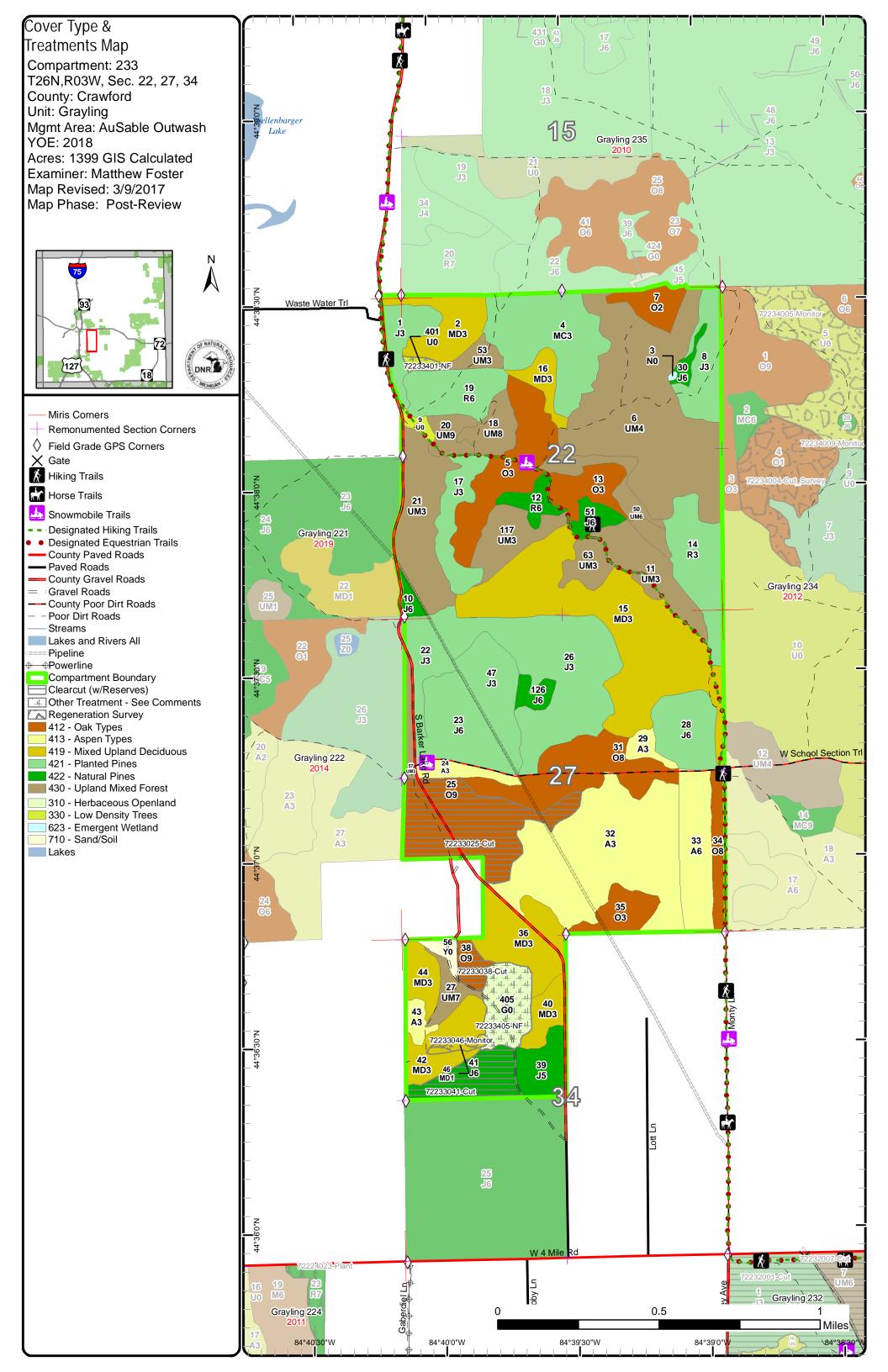
Matthew Foster: Examiner

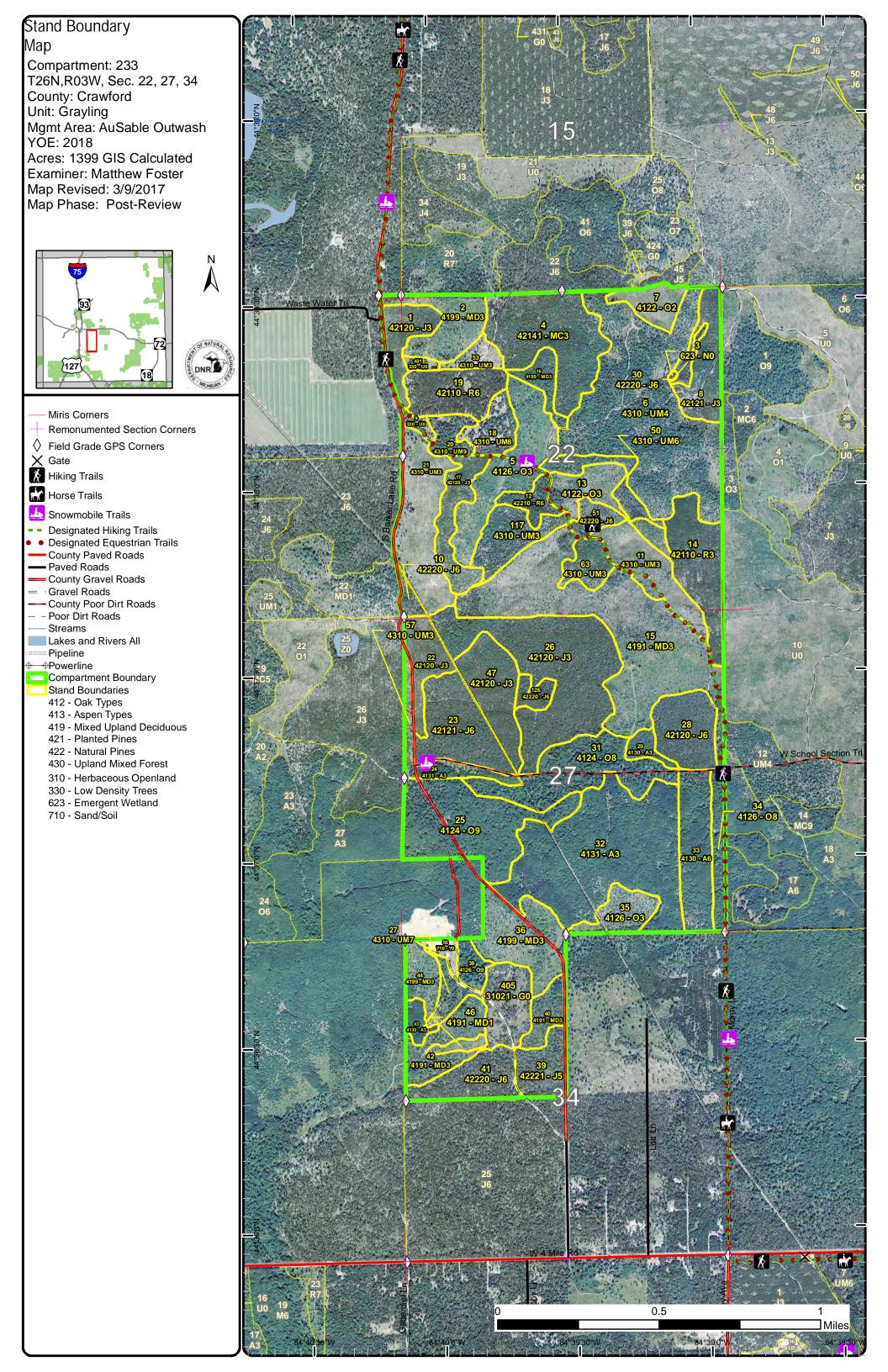
Compartment 233 Year of Entry 2018

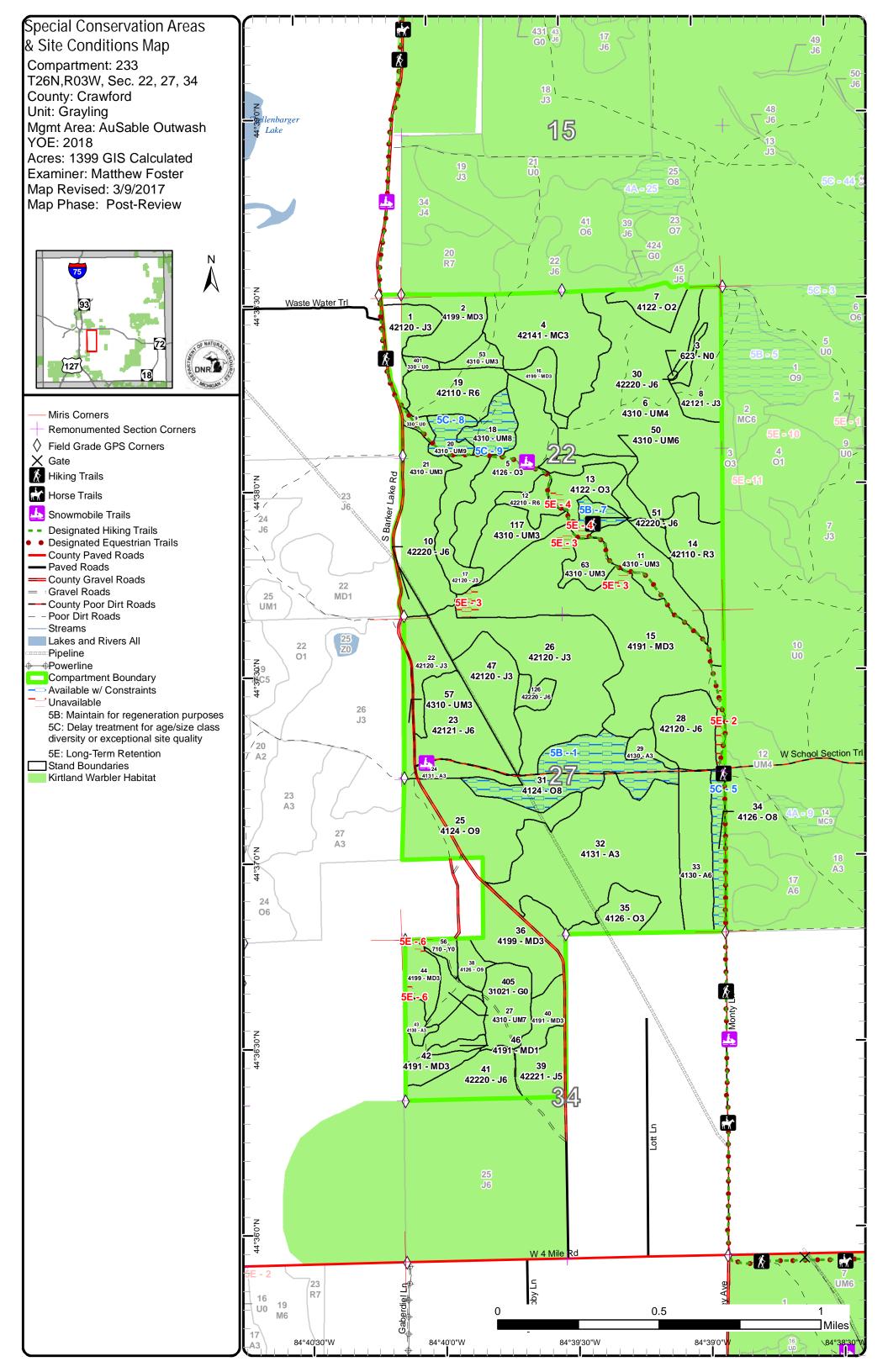


Age Class

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Aspen	0	0	0	128	38	0	0	0	0	0	0	0	0	0	0	0	0	0	166
Herbaceous Openland	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23
Jack Pine	0	0	55	54	166	6	36	4	0	0	0	0	0	0	0	0	0	0	321
Low-Density Trees	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Marsh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mixed Upland Deciduous	0	197	0	43	0	0	0	0	0	0	0	0	0	0	0	0	0	0	240
Oak	0	88	0	0	0	0	0	0	0	0	129	0	0	0	0	0	0	0	217
Planted Mixed Pines	0	0	0	56	0	0	0	0	0	0	0	0	0	0	0	0	0	0	56
Red Pine	0	0	0	36	0	0	35	0	0	0	0	0	0	0	0	0	0	0	71
Sand, Soil	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Upland Mixed Forest	0	85	16	21	0	0	142	9	0	10	14	0	0	0	0	0	0	0	297
Total	33	370	71	338	204	6	213	13	0	10	143	0	0	0	0	0	0	0	1401









Report 2 – Treatment Summary

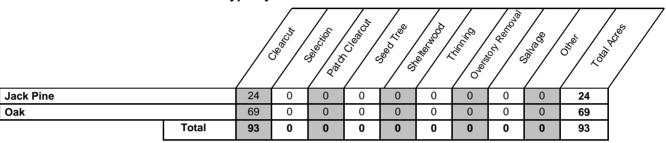
Grayling Mgt. Unit Year of Entry: 2018

Acres of Harvest

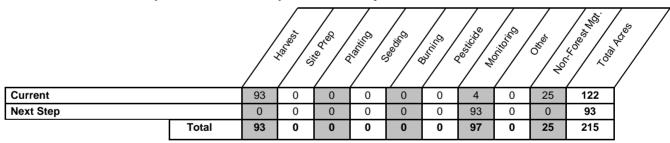
Compartment 233
Total Compartment Acres: 1,399

Commercial Harvest - 93 Harvests with Site Condition - 0 Next Step Harvest - 0 Habitat Cut - 0

Cover Type by Harvest Method



Proposed and Next Step Treatments by Method



Grayling Mgt. Unit Report 3 -- Treatments Compartment: 233 s Year of Entry: 2018 t а **Treatment** Stand Size Stand BA **Treatment Treatment Cover Type** Acres Age **Approval** n Name CoverType Density Age Range Type Method Objective Structure **Status** d 72233025-Cut 61.6 4124 - Red with Sawtimber 93 Clearcut with Draft Field 25 111-Harvest 412 - Oak Types Even-Aged White Oak Well 140 Retention Boundary **Site Condition: Habitat Cut: No** Prescription Final harvest with standard island retention. Protect Barker Lake Road and the pipeline corridor. Specs: Monitoring, Natural Regen (Re-Inventory) Next Step **Treatments:** Acceptable Oak, red maple, aspen. Regen: Other Harvest with stand 38. Comment: **Proposed Start Date:** 10/01/2017 38 72233038-Cut 7.5 4126 - White. Sawtimber 99 81-110 Harvest Clearcut 412 - Oak Types Even-Aged Draft Field Black, N. Pin Oak Well Boundary **Habitat Cut: No Site Condition:** Prescription Final harvest with no retention due to small stand size. Specs: Monitoring, Natural Regen (Re-Inventory) Next Step **Treatments:** Acceptable Oak, red maple, aspen. Regen: Other Harvest with stand 25. Comment: **Proposed Start Date:** 10/01/2017 72233041-Cut Draft Field 23.9 42220 - Natural Poletimber 51 Unspec Clearcut with 42221 - Natural Even-Aged Harvest Well ified Retention Jack Pine, Jack Pine Boundary Mixed Deciduous **Habitat Cut: No Site Condition:** Prescription Final harvest leaving minimum retention due to declining jack pine. Specs: Next Step Monitoring, Natural Regen (Re-Inventory) **Treatments:** Acceptable Jack pine, oak. Accept a poorly stocked stand if regeneration is sparse. Regen: Other Comment: 10/01/2017 **Proposed Start Date:** 72233046-4191 - Mixed 42120 - Planted Draft Field Sapling Immatu Monitoring Natural Regen Even-Aged 46 **Upland Deciduous** Jack Pine **Monitor** Poor re (Re-Inventory) Boundary with Conifer **Habitat Cut: No Site Condition:** Prescription Check regeneration Specs:

10/01/2015

Next Step Treatments:

Regen:
Other
Comment:

Acceptable jack pine

Proposed Start Date:

Grayling Mgt. Unit Report 3 -- Treatments Compartment: 233 s Year of Entry: 2018 t а **Treatment** Acres Stand Size Stand BA **Treatment Treatment Cover Type Approval** Age n Method Objective Name CoverType Density Age Range Type Structure **Status** d 2.6 330 - Low-Density Other - Specify 401 72233401-NF Nonstocked Unspec NonForestMgt 310 -Draft Field Trees ified Herbaceous Boundary Openland **Habitat Cut: No Site Condition:** Prescription Periodic opening maintenance, as needed, that may include disking, fertilizing, liming, food plot seeding, no-till prairie grass seeding, mowing, brushing, burning, herbicide application, and planting of mast producing tree and shrubs along opening edges. Specs: Next Step Treatments: <u>Acceptable</u> Regen: **Other** Comment: **Proposed Start Date:** 10/01/2017 Unspec NonForestMgt 310 -Draft Field 405 72233405-NF 22.6 31021 - Cool Nonstocked Other - Specify Season Grass ified Herbaceous Boundary Openland **Site Condition: Habitat Cut: No** Prescription Periodic opening maintenance, as needed, that may include disking, fertilizing, liming, food plot seeding, no-till prairie grass seeding, mowing, Specs: brushing, burning, herbicide application, and planting of mast producing tree and shrubs along opening edges.

Next Step

Treatments:

Acceptable

Regen:

Other Comment:

Proposed Start Date: 10/01/2017

Total Treatment Acreage Proposed: 121.8

Grayling Mgt. Unit

Matthew Foster : Examiner

Compartment: 233
Year of Entry: 2018

Availability for Management Total Acres Acres Avail Acres **Dominant Site Conditions** Available With Condition Not Available **5C** 5E Acres 5B 166 166 0 Aspen 0 23 23 0 Herbaceous Openland 0 321 313 6 Jack Pine 6 6 6 0 Low-Density Trees 0 0 0 0 Marsh 0 240 227 12 Mixed Upland Deciduous 12 0 217 156 60 Oak 46 14 1 56 56 0 **Planted Mixed Pines** 0 0 71 71 **Red Pine** 0 4 4 0 0 Sand, Soil 296 272 23 0 **Upland Mixed Forest** 23 1,399 15 1,294 89 Total Forested Acres 52 37 15 92% 6% 1% Relative Percent

*Due to limitations in the current Site Conditions Analysis tool, all nonforested acres are considered available. Future development will enable analysis of nonforested types.

Site No	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Available	5B: Maintain for regeneration purposes	46	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
2	Unavailable	5E: Long-Term Retention	4	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Retention excluded	from timber sale.					
3	Unavailable	5E: Long-Term Retention	6	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Retention for stand	15.					
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Report 4 – Site Conditions

Grayling Mgt. Unit

Matthew Foster: Examiner

Compartment: 233 Year of Entry: 2018

4	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Retention for stand	d 16 harvest.					
5	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	14	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
6	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
7	Available	5B: Maintain for regeneration purposes	6	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
8	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	10	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
9	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	14	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						

Mgt. Unit

Compartment: #Type! Year of Entry:

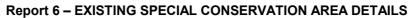


Report 5 – PROPOSED SPECIAL CONSERVATION AREA* (SCA) DETAILS

* 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: 233
Year of Entry 2018





* 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.

Conservation Area	Туре	Description	HCVA = High Conservation Value Area SCA = Special Conservation Area
HCVA	Designated Critical Habitat	U.S. Fish and Wildlife service for the recovery of thr 365, Endangered Species Protection, of the Natural PA 451, and the Federal Endangered Species Act of the PA 451.	tive and cooperative process between the DNR and the reatened and endangered species, as governed by Part I Resources and Environmental Protection Act, 1994 of 1973. This is an active program, with proposed w only two exist, Kirtland Warbler Habitat and Piping

S t	Grayling	Grayling Mgt. Unit			Forested	Stands Compartment: 233 Year of Entry: 2018
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	42120 - Planted Jack Pine	Sapling Well	17.0	14	Immature	Harvested in 1999, replanted to jack pine in spring 2003. Dense stand mixed with some oak.
2	4199 - Other Mixed Upland Deciduous	Sapling Well	24.6	9	Immature	Stump sprouts are taking off, shorter saplings are being browsed. Good amount of red maple in the north half. Residual pole sized red pine was left from the sale.
4	42141 - Planted Mixed Pine, Mixed Deciduous	Sapling Well	55.9	24	Immature	Harvested in 1989 and planted in 1993. Stand is variable with pockets of planted red pine, planted jack pine, and pockets left with natural regeneration. Most of the natural regeneration is along the east edge of the stand.
5	4126 - White, Black, N. Pin Oak	Sapling Well	43.3	8	Immature	Harvested in 2009 under contract 72-010-08-01. Very good oak regeneration, scattered red pine left from the harvest. Most of the red maple is on the north side of the road.
6	4310 - Pine, Oak Mix	Poletimber Poor	128.9	51	1-50	Harvested in fall 2000 under 72-046-98-01, everything 6 inches and up was cut. Now we have a sparse, mixed overstory with a thick understory.
7	4122 - Oak, Pine	Sapling Medium	12.7	8	Immature	Harvested in 2009 under contract 72-008-08-01. Oak/jack pine mix, south portion of the stand in the valley didn't regenerate quite as well as the rest, this should fill in over time.
8	42121 - Planted Jack Pine, Mixed Deciduous	Sapling Well	24.5	22	Immature	Jack pine planted in 1995, oak is mixed throughout.
10	42220 - Natural Jack Pine	Poletimber Well	4.3	56		Small stand left from adjacentharvests.Mostly jack pine will some oak andaspen.
11	4310 - Pine, Oak Mix	Sapling Well	26.7	9	Immature	This was the Staley Lake Fire in 2008. Coming back as a jack pine/oak mix. A few residual 4" red pine left from where it burned through the red pine plantation. The only area that isn't regenerating very well is the depression at the north end of the stand.
12	42210 - Natural Red Pine	Poletimber Well	8.8	56	81-110	New stand added, this is mostly red pine near the snowmobile trail, understory if full of oak.
13	4122 - Oak, Pine	Sapling Well	16.7	8	Immature	Harvested in 2009 under contract 72-010-08-01, part of stand was excluded from sale due to staley lake fire. A lot of 4-5" oak left from the harvest. More jack pine is found in the west half of the stand.
14	42110 - Planted Red Pine	Sapling Well	35.6	26	Immature	Planted in 1991. Found a couple of pockets that were planted to jack pine, these are visible on the 2014 imagery. SW portion of the stand was burned in the Staley Lake Fire.
15	4191 - Mixed Upland Deciduous with Conifer	Sapling Well	119.9	8	Immature	Harvested in 2009 under contract 72-010-08-01, south end was stand 27. Four retention areas included in the stand. Regeneration for the whole stand is very good, a good amount of jack pine is mixed in. The valley in the NW corner has less oak, may need to be a separate stand in the future.

S	Grayling	Grayling Mgt. Unit			' – Forested	Stands Compartment: 233 Year of Entry: 2018
t a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
16	4199 - Other Mixed Upland Deciduous	Sapling Well	9.7	28	Immature	Harvested in 1989 with stand 3, this stand was not planted. Mix of aspen, oak and red maple, will be pole size class next YOE. Small pocket of mature trees in south finger of the stand.
17	42120 - Planted Jack Pine	Sapling Well	21.0	17	Immature	Harvested in 1999 under contract 72-024-98-01, planted in 2000 to jack pine. Dense stand with oak mixed throughout.
18	4310 - Pine, Oak Mix	Sawtimber Medium	13.8	97	1-50	Scattered large open-grown oak, save for mast production. A couple of random planted red pine rows in the stand. South end has more conifer component. Open areas filling in with some regeneration.
19	42110 - Planted Red Pine	Poletimber Well	26.4	58	111-140	Row thinned in 1999 and then marked to 110BA and harvested in 2009 under contract 72-008-08-01. Average BA = 130, a few pockets should have been thinned a little more, stand may need to be thinned again in 10 years.
20	4310 - Pine, Oak Mix	Sawtimber Well	9.6	86	1-50	Scattered large open-grown oak, save for mast production. A couple of random planted red pine rows in the stand. South end has more conifer component. Open areas filling in with some regeneration.
21	4310 - Pine, Oak Mix	Sapling Well	43.9	8	Immature	Harvested in 2009 under contract 72-008-08-01. Good mix of oak and jack pine, red pine and some oak left near the road. Valley at the south end has a little less oak regeneration.
22	42120 - Planted Jack Pine	Sapling Well	17.4	14	Immature	Per C72-415 completion report site was hand planted to JP in May 2003, harvested in 1999. Dense jack pine mixed with some oak.
23	42121 - Planted Jack Pine, Mixed Deciduous	Poletimber Well	36.3	35		Stand was planted in 1982. Good amount of oak mixed throughout.
24	4131 - Aspen, Oak	Sapling Well	8.6	28	Immature	Harvested with stand 47 in 1989 but was not replanted. Both the west and east ends of the stand have aspen pockets with oak/red maple/aspen mix in between.
25	4124 - Red with White Oak	Sawtimber Well	61.6	93	111-140	In 1999 all red maple, aspen, jack pine, and red pine were removed. Adjacent stand 31 was also treated at the same time with this prescription. Most red maple and aspen regeneration is in the north end of the stand. Oak diameter increases as you go east.
26	42120 - Planted Jack Pine	Sapling Well	85.1	34	Unspecified	Harvested in 1980, planted in fall of 1983. Oak mixed throughout, especially in the NW corner of the stand. Where the stand touches the pipeline it looks like it was not planted and the oak has taken over. There is also a big depression at the far NW corner of the stand.
 27	4310 - Pine, Oak Mix	Sawtimber Poor	8.7	61	51-80	Hodgepodge of species left from adjacent harvests, more oak to the north and more red pine to the south. Very variable stand.

S t	Grayling	Mgt. Unit		Report 7	- Forested	Stands Compartment: 233 Year of Entry: 2018
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
28	42120 - Planted Jack Pine	Poletimber Well	26.8	35		Planted in 1982, stand is just enteringpole size class.
29	4130 - Aspen	Sapling Well	5.7	37		Harvested in 1980, not planted with stand 28. Aspen is dense but is poorquality, has a lot of black canker.
30	42220 - Natural Jack Pine	Poletimber Well	3.6	69		Small stand of mature jack pine, was too steep to cut when stand 8 was harvested.
31	4124 - Red with White Oak	Sawtimber Medium	46.0	94	51-80	In 1999 all red maple, aspen, jack pine, and red pine were removed. Adjacent stand 25 was also treated at the same time with this prescription. This stand must have had more red maple at the time of the cut, canopy is more open and underscore is full of regeneration. Hold this stand until regeneration is merchantable.
32	4131 - Aspen, Oak	Sapling Well	114.2	26	Immature	Harvested in 1991, dense stand with a couple pockets reaching pole size. Good component of oak/red maple throughout.
33	4130 - Aspen	Poletimber Well	32.0	37	Unspecified	Harvested in 1980 with adjacent stand 34. Just now becoming a pole stand, jack pine pocket at the north end by the road.
34	4126 - White, Black, N. Pin Oak	Sawtimber Medium	13.6	97	81-110	Aspen and jack pine were harvested in 1980 and oak and red pine were left. Aspen is just becoming merchantable and getting close to being in the overstory. Hold stand 10 years and let the aspen grow and become more merchantable.
35	4126 - White, Black, N. Pin Oak	Sapling Well	15.2	8	Immature	Harvested in 2009 under contract 72-015-08-01. Looks like there was a 4" spec on the sale, scattered 5" jack pine and some oak/red maple. Stand is a south facing slope, very good oak regeneration.
36	4199 - Other Mixed Upland Deciduous	Sapling Well	36.3	8	Immature	Harvested in 2009 under contract 72-015-08-01, sale had a 4 inch spec resulting in pockets of 4" red maple and other species throughout the stand. Dense oak regeneration in spots. A few pockets of thick aspen regeneration, especially north side of the road.
38	4126 - White, Black, N. Pin Oak	Sawtimber Well	7.5	99	81-110	All red pine, jack pine, aspen and red maple were removed in 1999.
39	42221 - Natural Jack Pine, Mixed Deciduous	Poletimber Medium	17.7	39	Unspecified	Split stand at the gravel road, this side is younger and more open. Harvested in 1978, some areas could be two aged. Aspen and oak mixed throughout the stand.
40	4191 - Mixed Upland Deciduous with Conifer	Sapling Well	11.7	27	Immature	Harvested in 1990, mixed stand with a good amount of cherry. Aspen pocket at the north end.
41	42220 - Natural Jack Pine	Poletimber Well	23.9	51	Unspecified	Split this stand at the gravel road, this side of the road is older and more dense. Jack pine is declining and starting to die out.

S t	Grayling Mgt. Unit			Report 7	– Forested	Stands Compartment: 233 Year of Entry: 2018
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
42	4191 - Mixed Upland Deciduous with Conifer	Sapling Well	21.7	27	Immature	This stand was cut in 1990, basically a cherry stand with scattered jack pine, oak, and aspen pockets. Jack pine in the south half of the stand looks like it was left during the harvest, could have been considered a different stand.
43	4130 - Aspen	Sapling Well	5.5	27	Immature	Harvested in 1990, dense aspen stand.
44	4199 - Other Mixed Upland Deciduous	Sapling Well	12.1	9	Immature	Harvested under 72-015-08-01 in 2008. Sale had a 4" spec so scattered 5" red maple found throughout the stand. Heavy browse on some of the oak, overall regeneration is very good.
46	4191 - Mixed Upland Deciduous with Conifer	Sapling Poor	3.6	8	Immature	Harvested in 2009 under contract 72-015-08-01. Some 4-5 inch Jack Pine left from harvest, a lot of cherry. Does not pass regeneration survey, need to accept what is there through compartment review.
47	42120 - Planted Jack Pine	Sapling Well	29.2	28	Immature	Replanted to 2-0 jack pine in spring 1991. Very dense stand with oak mixed throughout.
50	4310 - Pine, Oak Mix	Poletimber Well	12.8	56	81-110	Small strip that hasn't been cut during adjacent harvests. Variable with pockets of oak and pockets of jack pine.
51	42220 - Natural Jack Pine	Poletimber Well	7.8	59		New stand added, was excluded from adjacent timbersale due to staley lake fire. Pocket in the middle of the stand where fire burned hotter is dying out and thick jack pine and oak regeneration is coming in underneath. The southwest corner of the stand is designated retention from the adjacent harvest.
53	4310 - Pine, Oak Mix	Sapling Well	7.2	8	Immature	Harvested in 2009 under contract 72-008-08-01. Was supposed to be planted under C72-628 but was not done, good jack pine regeneration especially the SW half of the stand. Residual red pine was left in the west half.
57	4310 - Pine, Oak Mix	Sapling Well	6.9	8	Immature	Harvested in 2009 under contract 72-010-08-01.
						Sale looks like it had a 4 inch spec on it, a lot of 5 inch jack pine and oak left in the stand. Jack pine and oak regenerating well from the harvest.
63	4310 - Pine, Oak Mix	Sapling Well	15.8	17	Immature	Harvested in 1999 under contract 72-024-98-01. Planted in 2000, Staley Lake Fire burned through middle of the stand creating two parts. Doesn't look like jack pine survival was the best in some areas, oak has really taken over and competed with the jack pine.
117	4310 - Pine, Oak Mix	Sapling Well	21.4	27	Immature	The stand was cut in 1990, a lot of oak coming back mixed with some jack pine and red pine that look like they were left during the harvest.
126	42220 - Natural Jack Pine	Poletimber Well	6.2	46	Unspecified	This was a pocket of small jack pine that was not cut and not planted through (as the rest of the surrounding area was). This is now pole sized jack pine with a thick oak understory.

Compartment: 233 Year of Entry: 2018



Stand	Cover Type	Acres	Managed Site	General Comments:
3	623 - Emergent Wetland	0.4	No	Small grassy opening at the bottom of a depression, seasonally wet.
9	330 - Low-Density Trees	3.4	No	Open stand with scattered jack pine.
56	710 - Sand, Soil	4.3	No	Crawford County gravel pit and entrance to the pit.
401	330 - Low-Density Trees	2.6	No	Open stand with a few scattered oak and jack pine.
405	31021 - Cool Season Grass	22.6	No	Previous notes indicate that there were 200 American Chestnut (Castanea dentata) seedling planted somewhere in the stand by Bill Tarr. Stand is open with scattered pockets of jack pine.