



GRAYLING FOREST MANAGEMENT UNIT COMPARTMENT REVIEW PRESENTATION

COMPARTMENT # 17 ENTRY YEAR: 2013

GIS Compartment Acreage: 1,843 County: Oscoda

Revision Date: August 2011

Stand Examiner: Craig Farrer

Legal Description: T28N R2E, Sections 22, 26 and 27, Elmer Township.

Management Goals: The primary management objective is to manage stands for species and structural diversity, health, productivity and sustainability while also managing for multiple use and visual management.

Soils and Topography: Soil types within this compartment consist of Roselawn Sands and Rubicon/Roselawn Sands on upland sites. Topography within this compartment is dominantly rolling terrain. Many kettle holes were found scattered throughout the compartment.

Ownership Patterns, Development, and Land Use in and Around the Compartment: The majority of this compartment is comprised of state ownership. In section 22, a 40 acre parcel of private ownership exists and is used for residency. Several residences border the north side of this compartment.

Unique, Natural Features (include only non-site specific and non-sensitive information):

Kirtland's warbler, Blad eagle, loon, prairie warbler, and Secretive locust are found around this compartment. Pine barrens species of Hill's thistle, pale agoseris, rough fescue, Allegheny Plum, and Secretive locust have been found directly east in the "Frost pocket". There is potential for the secretive locust to occur in jack pine in this compartment and excellent potential for the pine barren's plants to be found in the pine barrens and dry sand prairie that may occur in this compartment. There is also potential for dusted skipper, grizzled skipper, Henry's elfin, red-legged spittlebug, Kirtland's warbler, and prairie warbler in this compartment.

Archeological, Historical, and Cultural Features (include only non-site specific and non-sensitive information): None recorded.

Special Management Designations or Considerations: The Hill's Thistle, Snowmobile and Cycle trail should all be considered in the management of this compartment. Also visual management is a concern because of the accessibility of the compartment from county roads. MI Impact Monitor System plots are located in the western portion of stand 54 which is slated for treatment. Per direction from Lansing staff, these research plots are no longer needed, so the treatment does not need to exclude them.

Watershed and Fisheries Considerations: None

Wildlife Habitat Considerations: Several grassy opening exist within this compartment and are maintained by Wildlife Division. Other habitat is to be maintained for deer, grouse and wild turkey.

Mineral Resource and Development Concerns and/or Restrictions: Surface sediments consist of glacial outwash sand and gravel and postglacial alluvium. 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. This compartment is leased for oil and gas and has been developed for the Antrim Shale.

Vehicle Access: Compartment can easily be accessed from several County Roads. These roads include Centerline Road, Penn Road, Oak Road and Pennsylvania Crossing Road. All roads but, Centerline Road are seasonal. Several two track trails spur off from these County Roads.

Survey Needs: None needed.

Recreational Facilities and Opportunities: A designated snowmobile trail (Muskrat Lake Trail # 4 & #9), the Mio ORV trail, Mio ORV Route, and cycle trail traverse through this part of this compartment. Other recreational opportunities include hunting, bird watching and mushrooming.

Fire Protection: There are no nearby water sources readily available for fire protection. This compartment contains several gas wells scattered about the landscape with buried pipeline going to and from them. This will require contacting the Oil and Gas Companies if fire occurs.

Additional Compartment Information:

- **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**

Stand Boundary Map

Compartment 17
 T28N, R012E, Sec. 22, 26, 27
 County: Oscoda
 Unit: Grayling
 YOE: 2013
 Acres: 1,843 GIS Calculated
 Stand Examiner: Craig Farrer
 Map Revised: 9/07/2011
 Map Phase: Pre-Review

Stand #
 23
Stocking Density
 (412)0 - A7
 Level 3 OI
 Level 4 Code
Cover Type Code

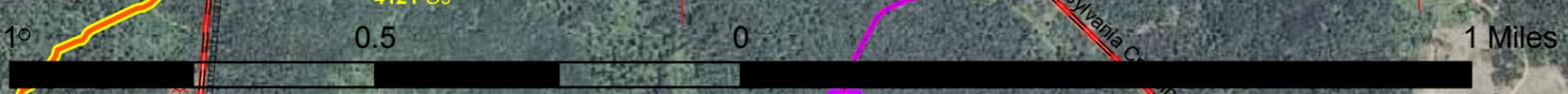
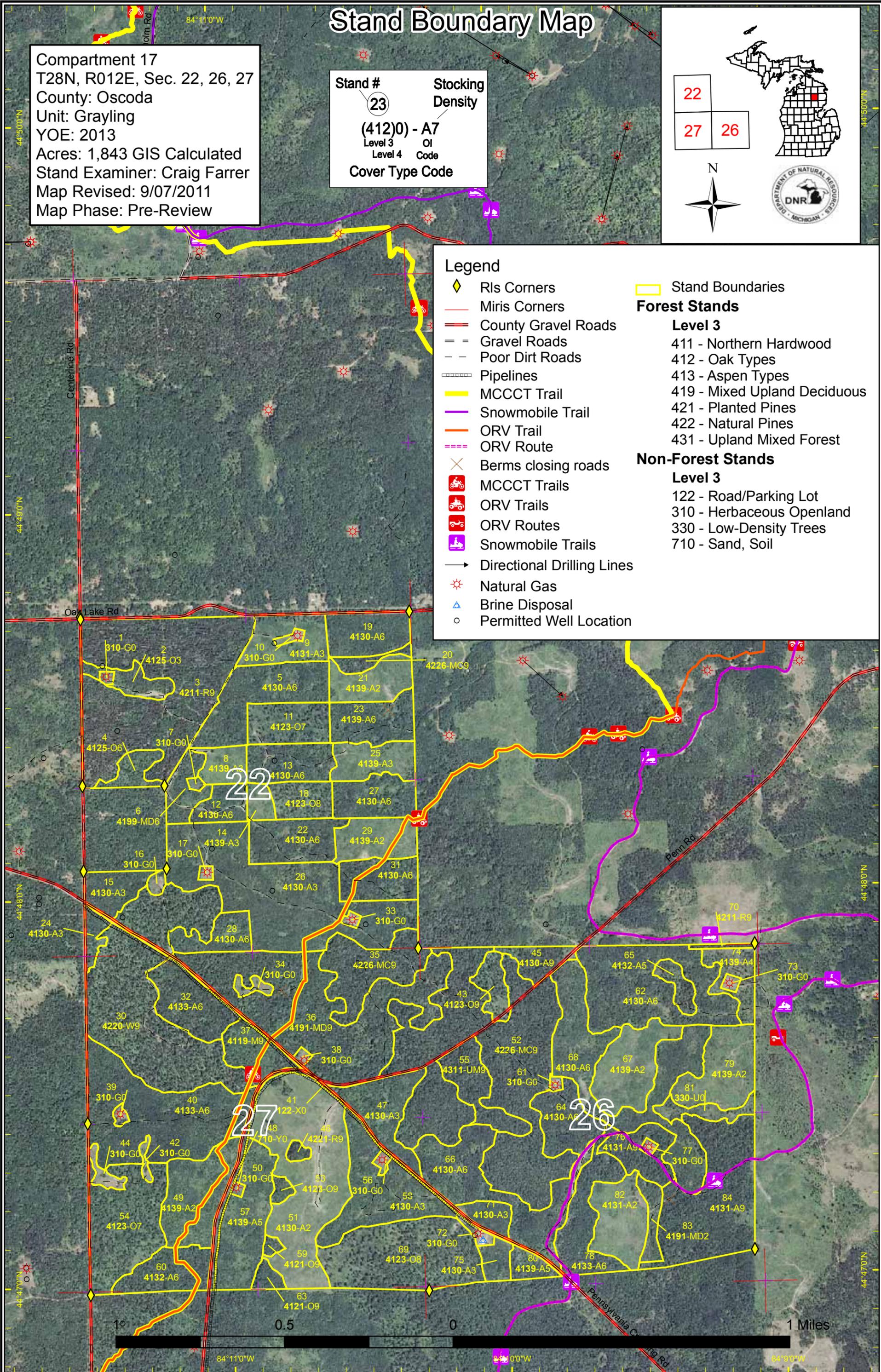
22
 27 26

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Legend

- ◆ RIs Corners
- Miris Corners
- County Gravel Roads
- Gravel Roads
- Poor Dirt Roads
- Pipelines
- MCCCT Trail
- Snowmobile Trail
- ORV Trail
- ORV Route
- × Berms closing roads
- 🛵 MCCCT Trails
- 🛵 ORV Trails
- 🛵 ORV Routes
- 🛵 Snowmobile Trails
- Directional Drilling Lines
- ☀ Natural Gas
- △ Brine Disposal
- Permitted Well Location

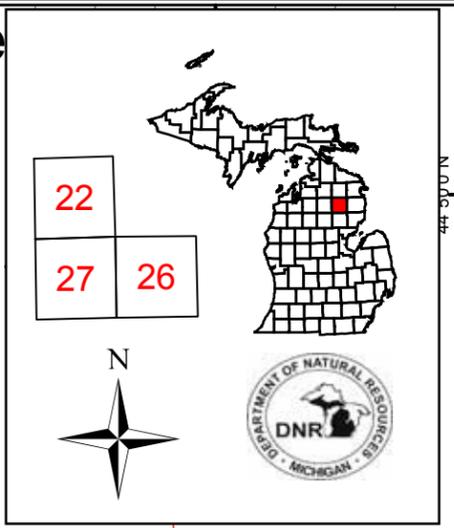
Stand Boundaries
Forest Stands
Level 3
 411 - Northern Hardwood
 412 - Oak Types
 413 - Aspen Types
 419 - Mixed Upland Deciduous
 421 - Planted Pines
 422 - Natural Pines
 431 - Upland Mixed Forest
Non-Forest Stands
Level 3
 122 - Road/Parking Lot
 310 - Herbaceous Openland
 330 - Low-Density Trees
 710 - Sand, Soil



Dedicated & Proposed Special Conservation Area

Compartment 17
 T28N, R012E, Sec. 22, 26, 27
 County: Oscoda
 Unit: Grayling
 YOE: 2013
 Acres: 1,843 GIS Calculated
 Stand Examiner: Craig Farrer
 Map Revised: 9/07/2011
 Map Phase: Pre-Review

Stand #
 23
Stocking Density
 (412)0 - A7
 Level 3 OI
 Level 4 Code
Cover Type Code



- Legend**
- Miris Corners
 - Stand Boundaries
- Forest Stands**
- Level 3**
- 411 - Northern Hardwood
 - 412 - Oak Types
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 - 421 - Planted Pines
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- Non-Forest Stands**
- Level 3**
- 122 - Road/Parking Lot
 - 310 - Herbaceous Openland
 - 330 - Low-Density Trees
 - 710 - Sand, Soil

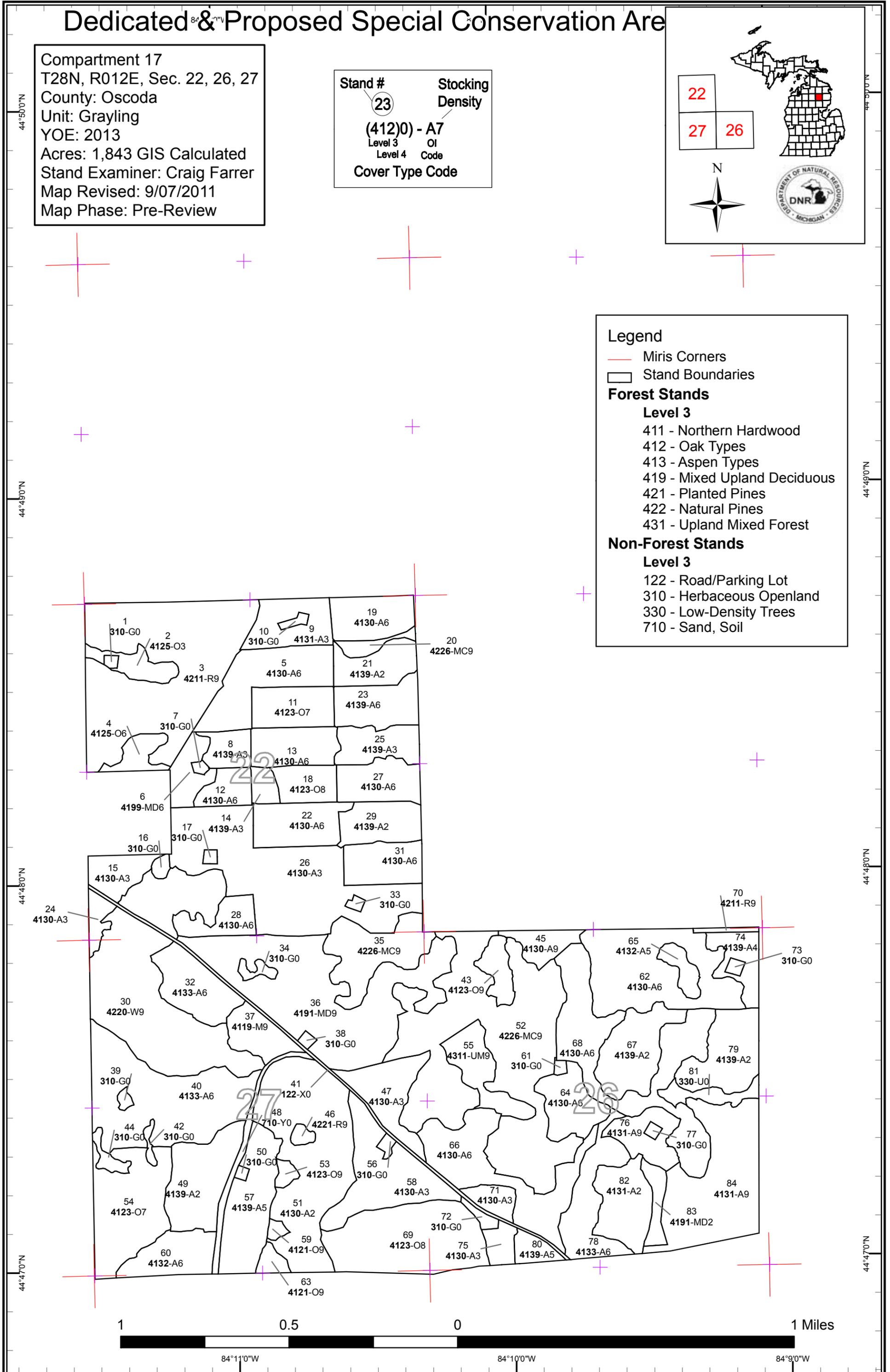


Table 1 – Total Acres by Cover Type and Age Class



	Age Class														Total	
	Non-Forested	1-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120 +		Unretn Age
Aspen	0	242	231	330	119	99	0	15	0	0	61	0	0	0	0	1097
Herbaceous Openland	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25
Low-Density Trees	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Mixed Upland Deciduous	0	0	7	12	0	98	0	0	0	0	0	0	0	0	0	117
Natural Mixed Pines	0	0	0	0	0	0	165	5	0	0	0	0	0	0	0	170
Northern Hardwood	0	0	0	0	0	0	0	0	0	14	0	0	0	0	0	14
Oak	0	0	8	9	0	0	0	0	0	61	87	0	0	0	0	165
Red Pine	0	0	0	0	0	110	0	0	0	2	0	0	0	0	0	112
Sand, Soil	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Upland Mixed Forest	0	0	0	0	0	0	19	0	0	0	0	0	0	0	0	19
Urban	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
White Pine	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0	100
Total	50	242	246	351	119	308	184	20	100	77	147	0	0	0	0	1843



Table 2 – Proposed Treatment Summaries

Grayling Mgt. Unit
Year of Entry 2013

Compartment 017
Total Compartment Acres: 1843

Acres by Treatment Type

Commercial Harvest - 202	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 Method

	<i>Clearcut</i>	<i>Selection</i>	<i>Seed Tree</i>	<i>Shelterwood</i>	<i>Thinning</i>	<i>Other - Specify</i>	<i>Total Acres</i>
Aspen	105	0	0	0	0	0	105
Natural Mixed Pines	0	0	0	0	30	0	30
Northern Hardwood	0	0	0	0	14	0	14
Oak	53	0	0	0	0	0	53
Total	157	0	0	0	44	0	202



S t a n d	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
35	72017035-Cut	30.2	42260 - Natural Pine, Mixed Deciduous	High Density Log	59	Harvest	Crown Thinning	42260 - Natural Pine, Mixed Deciduous	Cmpt. Review Proposal

Prescription
Specs:

Recommend a thinning. Thin White/Red Pine to 120BA. Leave all Oak within the stand. Also, leave all Aspen and Red Maple within the stand for composition where needed as well as future snag creation. Move stand toward an uneven aged management goal.

Other
Comments:

Next No FTP needed.
Steps:

37	72017037-Cut	14.2	4119 - Mixed Northern Hardwoods	High Density Log	86	Harvest	Crown Thinning	4119 - Mixed Northern Hardwoods	Cmpt. Review Proposal
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Prescription Recommend thinning stand to 90 BA and create regeneration gaps within the stand. Check on size of regen. gaps. Protect cycle trail and post trail and Pennsylvania Road.
Specs:

Other Goal is to move stand toward an uneven aged stand.
Comments:

Next No FTP needed.
Steps:

43	72017043-Cut	9.1	4123 - Red Oak	High Density Log	89	Harvest	Clearcut	4123 - Red Oak	Cmpt. Review Proposal
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Prescription Overstory Removal. Remove Oak and Pine in the overstory and protect existing regen as much as possible. Post Penn Road. Leave no retention.
Specs:

Other Overstory removal
Comments:

Next No FTP required Follow up with regen survey.
Steps:

45	72017045-Cut	9.8	4130 - Aspen	High Density Log	43	Harvest	Clearcut	4130 - Aspen	Cmpt. Review Proposal
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Prescription Recommend final harvest with no retention if possible. Post Penn Road.
Specs:

Other
Comments:

Next No FTP required. Follow up with regen survey. Will except a mix of species.
Steps:

54	72017054-Cut	43.4	4123 - Red Oak	Low Density Log	89	Harvest	Clearcut with Reserves	4191 - Mixed Upland Deciduous with Conifer	Cmpt. Review Proposal
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Prescription Overstory removal. Remove all trees in the overstory. Protect as much regeneration as possible. Sign Centerline Road. Do not use adjacent wildlife opening for landings or decking areas.
Specs:

Other
Comments:

Next No FTP needed. Follow up with a regen survey. Will except a mix of species.
Steps:



S t a n d	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
60	72017060-Cut	19.1	4132 - Aspen, Jack Pine	High Density Pole	44	Harvest	Clearcut with Reserves	4132 - Aspen, Jack Pine	Cmpt. Review Proposal

Prescription Final harvest Aspen, Red and Jack Pine. Leave all Oak 6" and under within the stand. Protect as much of the younger Oak in the East side of stand. Protect cycle trail. Post Penn Road.

Other
Comments:

Next No FTP required. Follow up with a regeneration survey. Will accept a mix of species.
Steps:

76	72017076-Cut	15.3	4131 - Aspen, Oak	High Density Log	68	Harvest	Clearcut with Reserves	4131 - Aspen, Oak	Cmpt. Review Proposal
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Prescription Final harvest with reserves. Leave patches of retention throughout the stand. This will also take care of visual concerns. Do not use oil/gas well site for landing or decking. Protect and sign snowmobile trail.

Other
Comments:

Next No FTP required. Follow up with a regeneration survey. Will accept a mix of species (Aspen, Red Maple, Oak and possibly some pine.)
Steps:

84	72017084-Cut	60.7	4131 - Aspen, Oak	High Density Log	91	Harvest	Clearcut with Reserves	4131 - Aspen, Oak	Cmpt. Review Proposal
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Prescription Recommend final harvest with reserves. Final harvest stand, but leave 4-5 large islands for retention and visual management. Protect and post ORV Route/Snowmobile trail.

Other
Comments:

Next No FTP required. Follow up with a regen survey. Will except a mix of species. (Aspen, Red maple, Oak.)
Steps:

**Total Treatment
Acreage Proposed: 201.9**

Table 4 -- Treatments Prescribed with a Limiting Factor



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Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
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Prescription Specs:

Other Comment:

Next Steps:

Limiting Factor and No Treatment Reason

Total Treatment Acreage Proposed: 0

Out of YOE -- Treatments
Prescribed with No Limiting Factor

Year of Entry: 2013



Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
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Prescription
Specs:

Other
Comments:

Next
Steps:

**Total Treatment
Acreage Proposed: 0**

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Grayling Mgt. Unit

5 – Forested Stands

Compartment: 017
Year of Entry: 2013

	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
2	4125 - Black, N. Pin Oak	High Density Sapling	9.4	28		Young Oak stand of poles and saplings. A mix of Aspen and Pine within the stand along with other species.
3	42110 - Planted Red Pine	High Density Log	108.3	47		Stand was row thinned last entry year under contract 720460301 Avoid Hdws Red. Pockets of Oak/Aspen scattered throughout stand. Two track traverses through the stand and along east side of stand. Stand borders Centerline Road and Oak Road.
4	4125 - Black, N. Pin Oak	High Density Pole	8.2	18		Small patch of Oak pole/saplings mixed with other deciduous species. South end of stand borders private property.
5	4130 - Aspen	High Density Pole	34.4	27		Aspen pole stand mixed with other deciduous species. Two track traverses along west side of stand.
6	4199 - Other Mixed Upland Deciduous	High Density Pole	11.7	27		Young Oak/Aspen stand.
8	4139 - Aspen, Mixed Deciduous	High Density Sapling	9.5	7		Immature Aspen stand. Final harvested under contract 720090301 Mystified Oak Aspen Block.
9	4131 - Aspen, Oak	High Density Sapling	20.0	7		Immature aspen stand mixed with oak and red maple. Stand was final harvested under contract 720090301 Mystified Oak Aspen Block. Strip of Oak was left along Hill Rd for visual management.
11	4123 - Red Oak	Low Density Log	18.9	94	1-50	Stand was to be thinned to 70 BA. More of a shelterwood cut. Cut in 2004 under contract 720090301 Mystified Oak Aspen Block. Understory is 7 yrs old.
12	4130 - Aspen	High Density Pole	10.0	27		Young Aspen pole stand with a mix of other deciduous species. Two track traverses through stand.
13	4130 - Aspen	High Density Pole	18.8	27		Young Aspen stand with a mix of other deciduous species. Two track traverses through stand.
14	4139 - Aspen, Mixed Deciduous	High Density Sapling	5.2	7		Stand final harvested under contract 720090301 Mystified Oak Aspen Block. Immature Aspen.
15	4130 - Aspen	High Density Sapling	12.3	26		Young pole stand of Aspen mixed with other deciduous species. Stand borders Pennsylvania Road and Centerline Road.
18	4123 - Red Oak	Medium Density Log	12.6	94	51-80	Stand was thinned in 2004 under contract 720090301 Mystified Oak Aspen Block. Residual BA 70. Understory is 7 yrs old.
19	4130 - Aspen	High Density Pole	19.5	27		Aspen stand mixed with Oak and Red maple mixed within stand in understory. Small pole size 5-6 inches. Stand borders Oak Road.
20	42260 - Natural Pine, Mixed Deciduous	High Density Log	4.6	64		Mixed pine stand located in valley and side slopes. Small stand acres and location will make this stand not feasible to harvest at this time I believe. Leave for diversity within the area.

S t a n d	Grayling Mgt. Unit		5 – Forested Stands			Compartment: 017
	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Year of Entry: 2013
						General Comments:
21	4139 - Aspen, Mixed Deciduous	Medium Density	16.8	5		Stand was final harvested under contract 720720401 Grouse Aspen Oak.
22	4130 - Aspen	High Density Pole	22.0	27		Young Aspen pole stand mixed with other deciduous species. Two track traverses through stand.
23	4139 - Aspen, Mixed Deciduous	High Density Pole	20.5	27		Young Aspen pole stand mixed with other deciduous species. Two track traverses through stand.
24	4130 - Aspen	High Density Sapling	5.8	26		Young Aspen pole stand mixed with other deciduous species. Stand borders Centerline Road and Pennsylvania Road. Stand was harvested at the same time stand 17 was harvested.
25	4139 - Aspen, Mixed Deciduous	High Density Sapling	16.3	5		Stand was final harvested under contract 720720401 Grouse Aspen Oak. Two track traverses through the northwest portion of the stand.
26	4130 - Aspen	High Density Sapling	93.1	18		Immature Aspen stand last cut in 1993. Some small poles of 4-5" 1 stick. CYCLE TAIL TRAVERSES THROUGH THE STAND ALONG WITH A TWO TRACK RUNNING AT A NW-SE DIRECTION.
27	4130 - Aspen	High Density Pole	18.8	27		Young Aspen pole stand mixed with other deciduous species. Two track trail traverses into stand (old).
28	4130 - Aspen	High Density Pole	12.7	25		Young Aspen pole/sapling stand. Old undrivable two track within the stand.
29	4139 - Aspen, Mixed Deciduous	Medium Density	18.3	5		Stand was final harvested under 720720401 Grouse Aspen Oak. Cycle trail traverses through stand.
30	42200 - Natural White Pine	High Density Log	99.5	71		Stand was thinned last entry year under contract 720340401 Pennsylvania White Pine. Stand was originally to be thinned to 120 BA, but not enough White pine available across the stand to meet 120 BA. Accepted 80-90 residual BA instead. Stand borders Centerline Road and Pennsylvania Road.
31	4130 - Aspen	High Density Pole	18.4	27		Young Aspen pole stand mixed with other deciduous species. Cycle trail traverses through the stand.
32	4133 - Aspen, Mixed Pine	High Density Pole	23.3	34		Aspen pole stand mixed with Red and White pine. Stand borders Pennsylvania Road.
35	42260 - Natural Pine, Mixed Deciduous	High Density Log	30.2	59	171-200	White pine stand mixed with Red pine and Quaking Aspen. Some Oak and Red Maple within the mix. Two track traverses into stand.





	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
36	4191 - Mixed Upland Deciduous with Conifer	High Density Log	98.2	45	81-110	Stand borders Pennsylvania Road and ORV trail traverses through stand. Stand is a mix of species. Aspen, W.Pine and Sugar Maple are the dominant species. Stand also includes Red Pine, Paper Birch, Basswood, Beech, Cherry and Red Maple. Stand may or may not have been cut in the past. Could not find any records of a cut. This stand I would consider of being a two story stand. Aspen is approx. 45 years old and older. W. Pine, Red Pine, Sugar Maple etc off an older age.
37	4119 - Mixed Northern Hardwoods	High Density Log	14.2	86	111-140	Northern Hardwood stand. Recommend thinning stand to 90 BA and creating some regen gaps. Cycle trail traverse through the stand. Stand borders Pennsylvania Road.
40	4133 - Aspen, Mixed Pine	High Density Pole	69.6	33		Aspen pole stand mixed with other deciduous species along with pine species. Two track traverses through the stand and cycle trail traverses through stand. West side of stand borders Centerline Road and East side borders Penn Road (Seasonal)
43	4123 - Red Oak	High Density Log	9.1	89		Stand was shelterwood cut in 2004 under contract 720330301 Pennsylvania Oak. Heavy Aspen/Red maple understory (7 yrs old). Stand borders Penn Road (seasonal).
45	4130 - Aspen	High Density Log	9.8	43		Aspen pole stand with logs. Mixed with pine and other deciduous species. Stand borders Penn Road (seasonal).
46	42210 - Natural Red Pine	High Density Log	2.2	86		Retention left in a patch from surrounding sale.
47	4130 - Aspen	High Density Sapling	22.0	18		Aspen Sapling/pole stand mixed with other deciduous species. Stand borders Pennsylvania Road.
49	4139 - Aspen, Mixed Deciduous	Medium Density	31.2	18		Aspen sapling/pole stand mixed with other deciduous species. Stand borders Penn Road (seasonal). Cycle trail traverses through the stand.
51	4130 - Aspen	Medium Density	77.7	5		Stand was final harveated in 2006 under contract 720380401 Two Penns Aspen. Stand borders Pennsylvania and Penn Roads.
52	42260 - Natural Pine, Mixed Deciduous	High Density Log	134.8	59		White Pine stand mixed with Aspen and other deciduous species. Stand also includes Red Pine. Penn Road traverses through stand and another two track traverses through the stand.
53	4123 - Red Oak	High Density Log	2.6	86		Small patch left for retention when surrounding stand was cut.
54	4123 - Red Oak	Low Density Log	43.4	89		Stand was harvested last entry year under contract 720330301 Pennsylvania Oak. Shelterwood seed cut (40% crown). Stick nest located within the stand. Impact monitor plots within the stand. (Check on this). West side of stand borders Centerline Road and two track traverses along the south end of stand.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
55	4311 - Pine, Aspen Mix	High Density Log	18.5	59		Aspen stand mixed with mixed Pine (R and W Pine). Stand borders Penn Road (seasonal). Recommend removing all Aspen and Red Maple from stand.
57	4139 - Aspen, Mixed Deciduous	Medium Density Pole	32.6	18		Young Aspen sapling/pole stand. Stand borders Penn Road (seasonal) Oil/gas line on west side of stand.
58	4130 - Aspen	High Density Sapling	38.0	18		Young Aspen sapling/pole stand mixed with other deciduous species. Stand borders Pennsylvania Road. Oil/gas line on north side of stand. Two track traverses through or within the stand.
59	4121 - Oak, Aspen	High Density Log	1.7	86		Small stand left for retention when surrounding stand was cut.
60	4132 - Aspen, Jack Pine	High Density Pole	19.1	44		Aspen/Oak/Pine stand. Super canopy Red Pine. Small patches of Jack Pine. More younger Oak in the east end of stand. East side of stand borders Penn Road (seasonal). Cycle trail traverses through the stand.
62	4130 - Aspen	High Density Pole	55.6	27		Aspen stand on rolling terrain. Pole and log size Aspen along with Black Cherry pole timber and some log size trees.
63	4121 - Oak, Aspen	High Density Log	3.8	86		Small stand left for retention when surrounding stand was cut.
64	4130 - Aspen	High Density Pole	19.3	42		New stand added. Stand of Aspen/Oak mixed with Red and White Pine. Two track trail traverse through a north portion of the stand.
65	4132 - Aspen, Jack Pine	Medium Density Pole	6.5	27		New stand added. Jack Pine/Bk Cherry stand. Some Quaking Aspen. Located in a valley.
66	4130 - Aspen	High Density Pole	45.0	42		Aspen pole stand. BT on ridges and Q in valley or lower areas. Mixed with other deciduous species. Pocket of pine in northwest corner of stand(Wp). Snowmobile/two track traverses through the east side of stand. East side of stand is a valley and west side of stand is a valley.
67	4139 - Aspen, Mixed Deciduous	Medium Density	27.6	7		Immature Aspen stand mixed with other deciduous species. Final harvested under contract 720460401 Bear Aspen Oak.
68	4130 - Aspen	High Density Pole	61.6	27		Young Aspen pole stand mixed with other deciduous species and some pine. Two track/snowmobile trail traverses through and along portions of the stand.
69	4123 - Red Oak	Medium Density Log	55.1	94		Stand was thinned last entry to 70BA under contract 720330301 Pennsylvania Oak.
70	42110 - Planted Red Pine	High Density Log	1.7	42		New stand added. Long narrow strip of planted Red pine. (8 ROWS) East end has survey marker and bearing trees.

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Grayling Mgt. Unit

5 – Forested Stands

Compartment: 017
Year of Entry: 2013

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
71	4130 - Aspen	High Density Sapling	7.2	18		Immature aspen stand mixed with other deciduous species. Stand borders Pennsylvania Road.
74	4139 - Aspen, Mixed Deciduous	Low Density Pole	13.0	27		New stand added. Stand of scattered Quaking Aspen, Jack Pine and Blk Cherry. Lots of Cherry brush. Stand borders the frost pocket
75	4130 - Aspen	High Density Sapling	6.4	18		Immature aspen stand mixed with other deciduous species. Stand borders Pennsylvania Road.
76	4131 - Aspen, Oak	High Density Log	15.3	68	81-110	Aspen/Oak stand with some mixed Pine. Two track/snowmobile trail traverses through the stand.
78	4133 - Aspen, Mixed Pine	High Density Pole	25.8	33		Aspen pole timber mixed with White pine and some Oak on ridge.
79	4139 - Aspen, Mixed Deciduous	Medium Density	27.4	7		Stand was harvested 7 yrs ago under contract 720640401 Bear Aspen Oak (final harvest). East side of stand borders Frost Pocket.
80	4139 - Aspen, Mixed Deciduous	Medium Density Pole	6.2	42		Aspen pole stand mixed with other species. Stand borders Pennsylvania Road.
82	4131 - Aspen, Oak	Medium Density	23.4	7		Stand was final harvested under contract 720640401 Bear Aspen Oak 7 yrs ago.
83	4191 - Mixed Upland Deciduous with Conifer	Medium Density	7.1	18		Immature Oak, Jack pine and Aspen mixed. Some cherry. In a small valley.
84	4131 - Aspen, Oak	High Density Log	60.7	91		Aspen stand mixed with Oak and other species. Two track/snowmobile trail traverses through the north portion of the stand.



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
1	310 - Herbaceous Openland	0.9	No	Unspecified	Herbacious opening. Oil/gas well site. Elmer A1-22.
7	310 - Herbaceous Openland	1.0	No	Unspecified	
10	310 - Herbaceous Openland	1.4	No	Unspecified	Herbacious opening. Oil/gas well site. State Elmer A3-22
16	3102 - Grass	2.0	No	Unspecified	Grassy opening. Possibly an old well site, old wildlife opening or homestead. No evidence that it was any of them in the field
17	310 - Herbaceous Openland	1.1	No	Unspecified	Herbacious opening. Oil/gas well site. State Elmer D2-22.
33	310 - Herbaceous Openland	1.1	No	Unspecified	Herbacious opening. Oil/gas well site. State Elmer D4-22
34	3105 - Mixed Upland Herbaceous	2.6	No	Unspecified	Maintained Wildlife opening. Herbacious opening.
38	3105 - Mixed Upland Herbaceous	1.0	No	Unspecified	Herbacious opening. Oil/gas well site. State Elmer B3-27
39	310 - Herbaceous Openland	1.3	No	Unspecified	Herbacious opening. Oil/gas well site. State Elmer B1-27.
41	122 - Road/Parking Lot	9.5	No	Unspecified	Pennsylvania Road and Oil/gas pipeline.
42	3102 - Grass	1.6	Yes	High (NonForested)	Maintained Wildlife opening.
44	3102 - Grass	3.4	Yes	High (NonForested)	Maintained Wildlife opening.
48	710 - Sand, Soil	7.7	No	Unspecified	Stand is Penn Road with an oil/gas pipeline along side of it. Road is dirt and seasonally maintained; pipeline is grasses/sedge with an narrow strip of trees between road and pipeline in the north
50	310 - Herbaceous Openland	0.8	No	Unspecified	Herbacious opening. Oil/gas well site. State Elmer C2-27.
56	310 - Herbaceous Openland	1.4	No	Unspecified	Herbacious opening. Oil/gas well site. State Elmer C4-27
61	310 - Herbaceous Openland	1.0	No	Unspecified	Herbacious opening. Oil/gas well site. State Elmer B2-26.
72	310 - Herbaceous Openland	2.3	No	Unspecified	Oil/gas facility. Pumping station. Structures and the rest grass.



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
73	310 - Herbaceous Openland	1.3	No	Unspecified	Herbacious opening. Oil/gas well site. State Elmer A4-26. Delta Oil Company (989) 732- 7999 or (630) 573-1717.
77	310 - Herbaceous Openland	1.0	No	Unspecified	Herbacious opening. Oil/gas well site. State Elmer C3-26.
81	3303 - Mixed Low Density Trees	7.6	No	Unspecified	



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
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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.

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

Conservation Area	Type	Description
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