



GRAYLING FOREST MANAGEMENT UNIT COMPARTMENT REVIEW PRESENTATION

COMPARTMENT # 222 ENTRY YEAR: 2014

GIS Compartment Acreage: 1011 County: Crawford

Revision Date: September 5, 2012

Stand Examiner: Tom Barnes

Legal Description: T26N R03W, Sections 28, 29 & 30
South Central Grayling Township

Management Goals: Maintain forest health, productivity, sustainability, species diversification and structural diversity of the resources while providing for multiple uses of the land. Section 29 is designated to be disposed of in the future as part of the Crawford County Industrial Park. It is anticipated development in this section will not occur in the near future.

Soils and Topography: The soils are Grayling and Graycalm sands. The area is rolling hills to the west to very rolling hills to the east.

Ownership Patterns, Development, and Land Use in and Around the Compartment: The area is mixture of State land and private property both in and around the compartment. The I-75 travel corridor is on the western side of the compartment. The 4 Mile Road Rest Area is also located in the southwestern corner of the compartment. The Straits Corporation Railroad bisects the compartment. A large industrial park is being developed around this compartment and will include Section 29 in the future as further expansion occurs. A 100 foot wide strip of land along I-75 and the west side of the compartment in section 29 was conveyed to Grayling Township to serve as a buffer for the industrial park and to be used as a non-motorized trail corridor. A state radio tower is in stand 17, located in the south portion of section 28. We have experienced continual problems over illegal ORV use on the hills around the radio tower. The area is riddled with illegally created trails and erosion problems.

Unique, Natural Features: None.

Archeological, Historical, and Cultural Features: No evidence of historical occupation is found in the compartment.

Special Management Designations or Considerations: Section 29 is covered under a Memorandum of Understanding signed by the Director that identified parcels of land that will be held for future exchange, direct sale, or public auction to assist in development of the Crawford County Industrial Development Park. The MOU was recently renewed and extended through 2015. There is also a radio tower in Section 28, Stand 17.

Watershed and Fisheries Considerations: Barker Lake (four acres) is located in the Compartment. It has very limited fishing potential as it may freeze out in the winter. No quality fishing occurs on the lake. The entire Compartment consists of very well drained to excessively drained upland soils.

Wildlife Habitat Considerations: To manage and maintain the habitat suitable for the White-tailed Deer, Ruffed Grouse, and Wild Turkey. There are no maintained openings in the compartment.

Mineral Resource and Development Concerns and/or Restrictions: There is no oil and gas development/activity in the compartment. The Crawford County Road Commission owns the SESE of Section 28 and the SWSW of Section 27. Surface sediments consist of ice-contact and glacial outwash sand and gravel and postglacial alluvium. Glacial drift thickness varies between 200 and 600 feet. There is elevation relief of approximately 260 feet in the compartment. Beneath the glacial drift is the Michigan Formation. The Michigan is quarried for gypsum elsewhere in the State. Gravel potential is thought to be good. There are no oil and gas leases in this compartment. The nearest production is Beaver Creek Field, located five miles to the southwest.

Vehicle Access: I-75 corridor is located in the western portion of the compartment. The closest access to the expressway is one mile south of the compartment at the 4-Mile Road interchange. Barker Lake Road (a graveled county road) is located on the east edge of the compartment. There are numerous two-track trails that traverse throughout the compartment. Existing access is adequate for current needs; no new roads need to be constructed. Several private landowners use state trails as the only access for their property in section 29. Note, as this area develops into the industrial park, a road system plan developed for the park will be followed. This plan insures access to the private property as state land is disposed of for industrial development. All new trails created for timber sales will be closed upon completion of the sale. There are no places to cross the railroad tracks within this compartment. There is a two track that parallels the railroad tracks on the southern side that does cross private property, this portion of two track is privately owned thus restricting access to the rest of the compartment.

Survey Needs: Survey needs to be conducted to in SE $\frac{1}{4}$ of Section 30 to establish our property lines, before treatment is conducted in 2014. Majority of survey corners were found during boundary verification, only exception is along the SE $\frac{1}{4}$ of SE $\frac{1}{4}$, of Section 28, this forty is owned by the Crawford County Road Commission.

Recreational Facilities and Opportunities: The area receives pressure from hunting. The Higgins Lake-Grayling Snowmobile Trail 482 traverses through the west side of the compartment just west of South Bound I-75.

Fire Protection: The compartment consists of mostly rolling upland hardwoods and jack pine plains. Numerous roads bisect the area. Access is available from Barker Lake Road, 4 Mile Road, and Industrial Street. The trail roads that access and are in the compartment are hilly and consist of loose sand. Note, a primary trail road that runs along the railroad tracks is considered a private trail for the part that crosses private land. Some areas have difficult access for fire suppression. The only place to cross the railroad tracks is along 4 Mile Road (one mile to the south) and another crossing is located $\frac{1}{2}$ mile to the north of the compartment.

Additional Compartment Information: The Four Mile Fire of 2008, burned most of the land west of the railroad tracks to the I-75 corridor. Salvage harvests took place following the fire across much of the compartment.

Prior review had the following concerns “Consideration will be needed when setting up treatments in Section 29 for the future development of the Industrial Park and its associated activity. Consideration will be needed when setting up treatments in Section 29 for the future development of the non-motorized Path Way.”

Treatment concerns will not be a major factor as the majority of this was burned in 2008. Access problems around the radio tower need to continue to be addressed. There is evidence of high deer browse in this compartment, largely do to the nearby waste treatment facility and septic fields.

- **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: 222
 T26N R03W Sec. 28, 29, 30
 County: Crawford
 Unit: Grayling
 YOY: 2014
 Acres: 1,040 GIS Calculated
 Examiner: Thomas Barnes
 Map Revised: 09/06/2012
 Map Phase: Pre-Review

Cover Type & Treatment Map

30 29 28

N

Stand #
 23
 (4120) - A7
 Level 3 OI
 Level 4 Code
 Cover Type Code

Legend

- Miris Corners
- PLSS Corner
- Remonumented Section Corners
- Highway
- County Paved Roads
- Paved Roads
- County Gravel Roads
- Gravel Roads
- Poor Dirt Roads
- County Poor Dirt Roads
- Trail (Non-Recreation)
- Closed Roads
- Gate
- Horse Trail
- Ski Trail
- Hiking Trail
- Snowmobile Trail
- Hiking Trails
- Horse Trails
- Snowmobile Trails
- Pipeline
- Powerline
- Lakes and Rivers
- State Forest Land

Treatments

- Clearcut (w/Reserves, Patch/Strip)

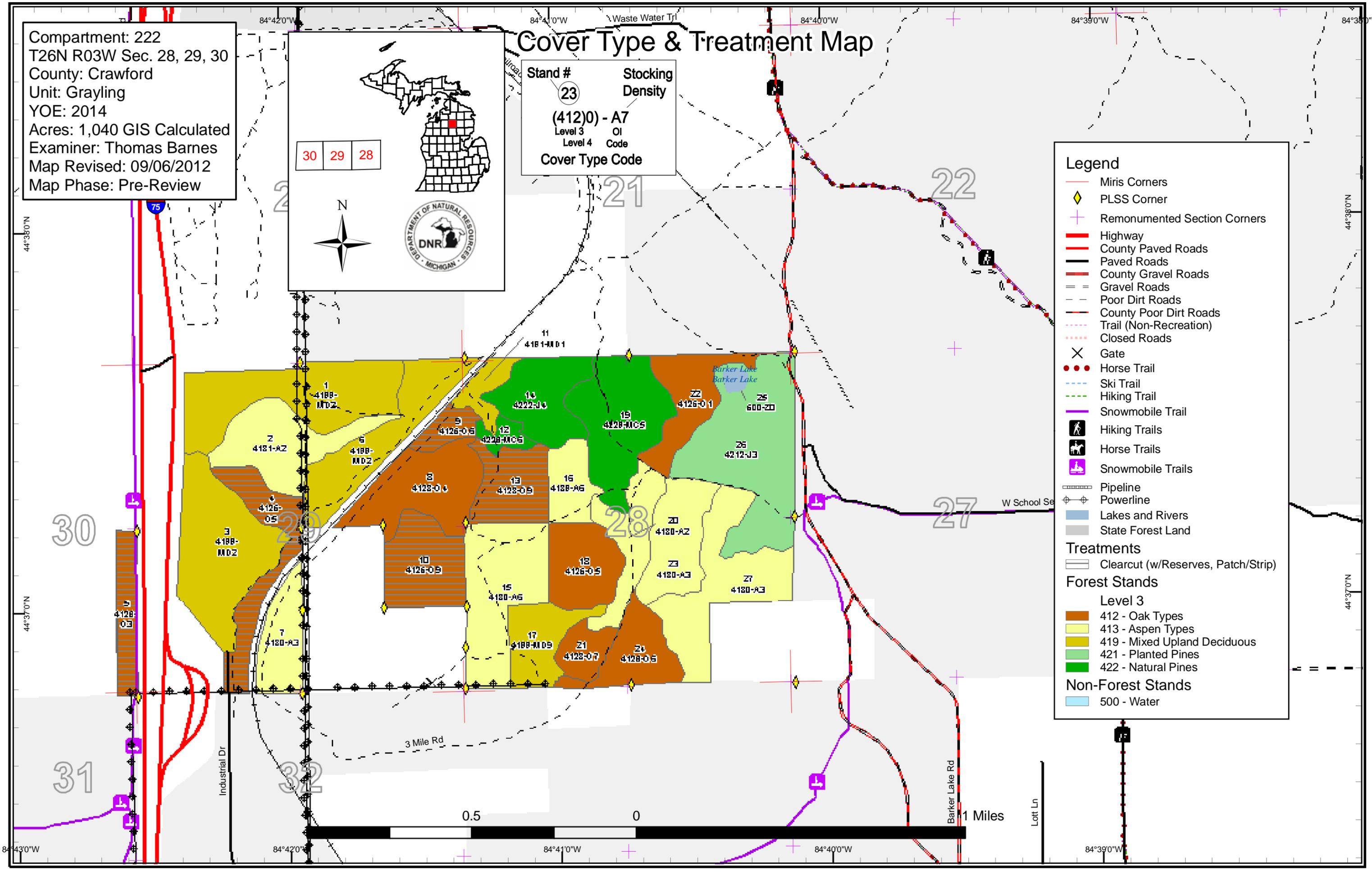
Forest Stands

Level 3

- 412 - Oak Types
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines

Non-Forest Stands

- 500 - Water

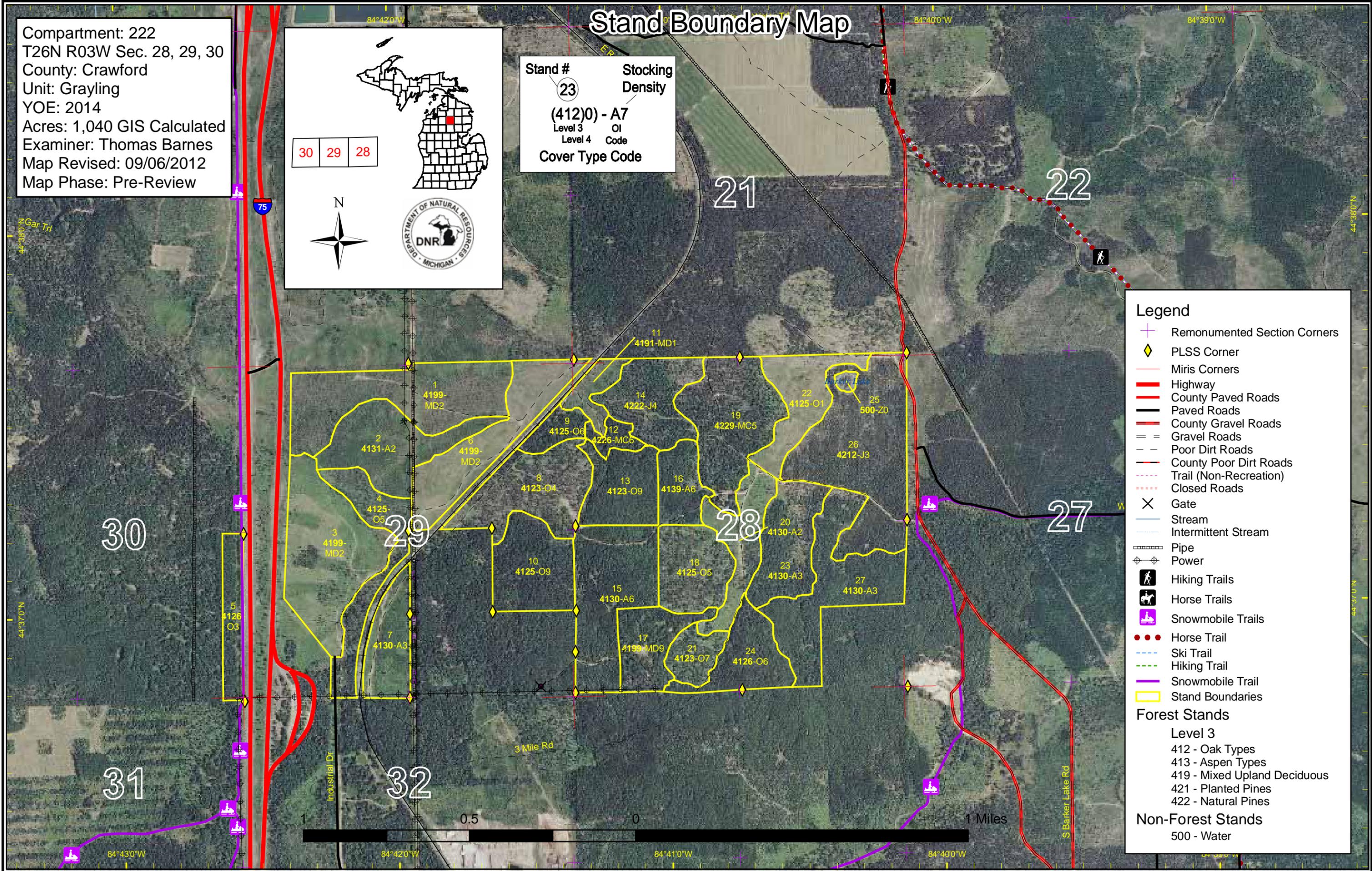


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 Map Phase: Pre-Review

Stand Boundary Map

30 29 28
 N
 DNR
 DEPARTMENT OF NATURAL RESOURCES
 MICHIGAN

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



Legend

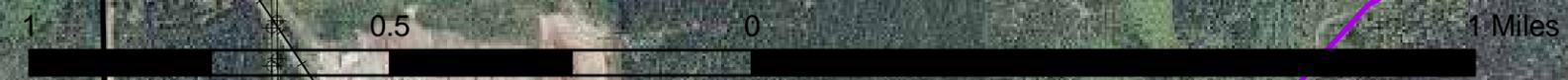
- Remonumented Section Corners
- PLSS Corner
- Miris Corners
- Highway
- County Paved Roads
- Paved Roads
- County Gravel Roads
- Gravel Roads
- Poor Dirt Roads
- County Poor Dirt Roads
- Trail (Non-Recreation)
- Closed Roads
- Gate
- Stream
- Intermittent Stream
- Pipe
- Power
- Hiking Trails
- Horse Trails
- Snowmobile Trails
- Horse Trail
- Ski Trail
- Hiking Trail
- Snowmobile Trail
- Stand Boundaries

Forest Stands

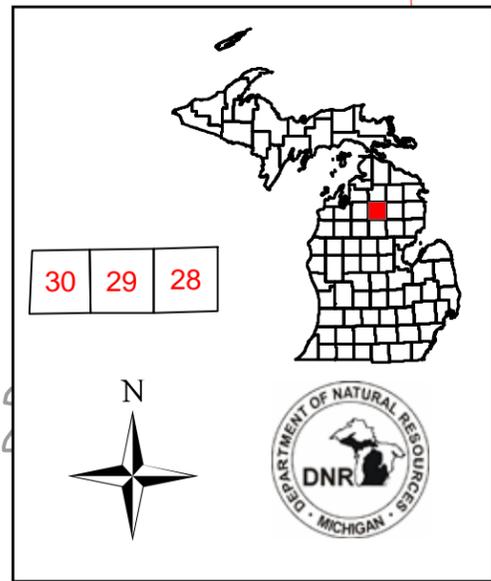
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Stand #
 23
Stocking Density
 (4120) - A7
 Level 3 OI
 Level 4 Code
Cover Type Code

Dedicated & Proposed Special Conservation Area Map

Legend

- ✚ Remonumented Section Corners
- Miris Corners
- ▭ Stand Boundaries
- Dedicated Special Conservation Areas
- Kirtland Warbler Habitat

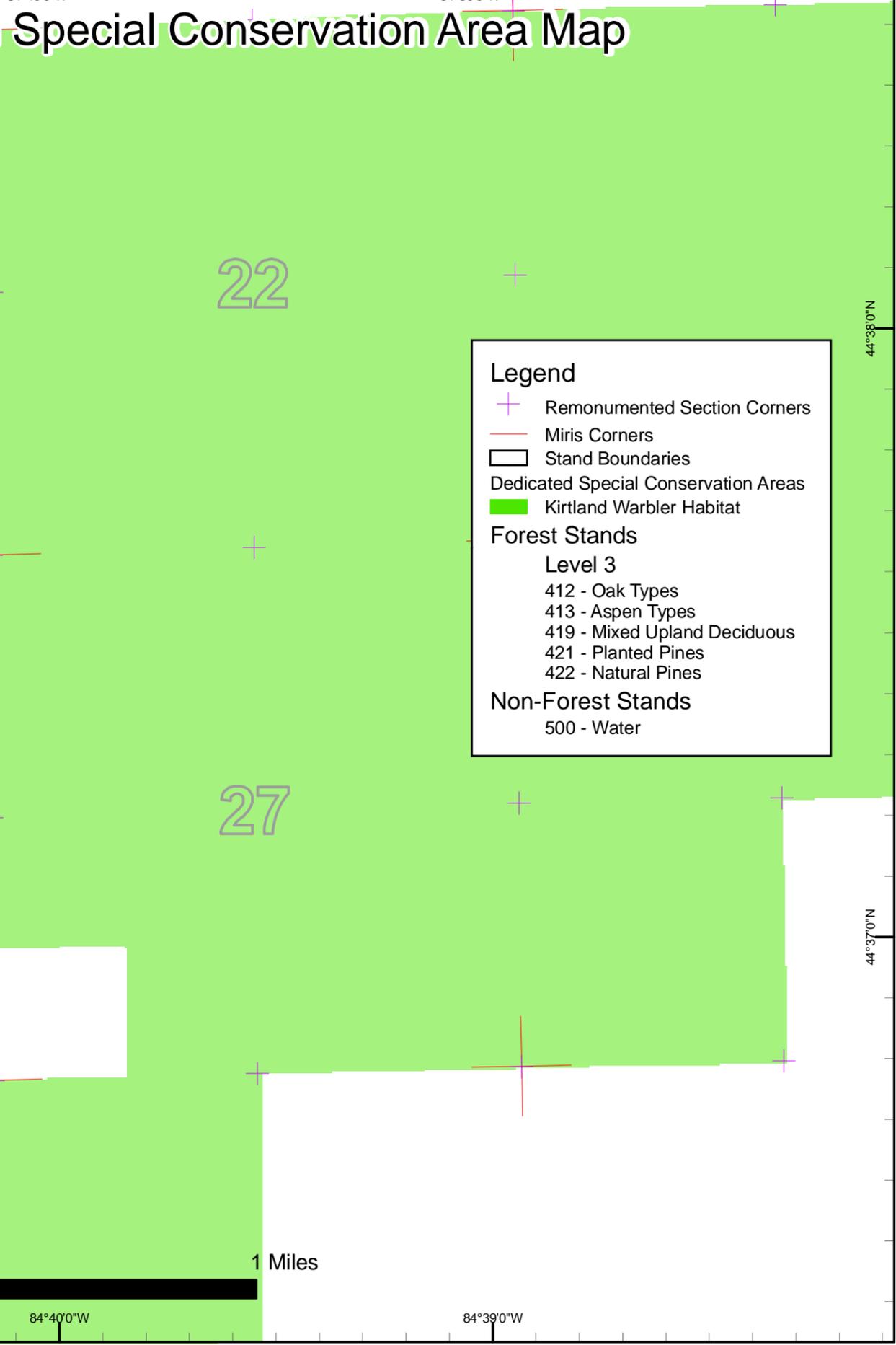
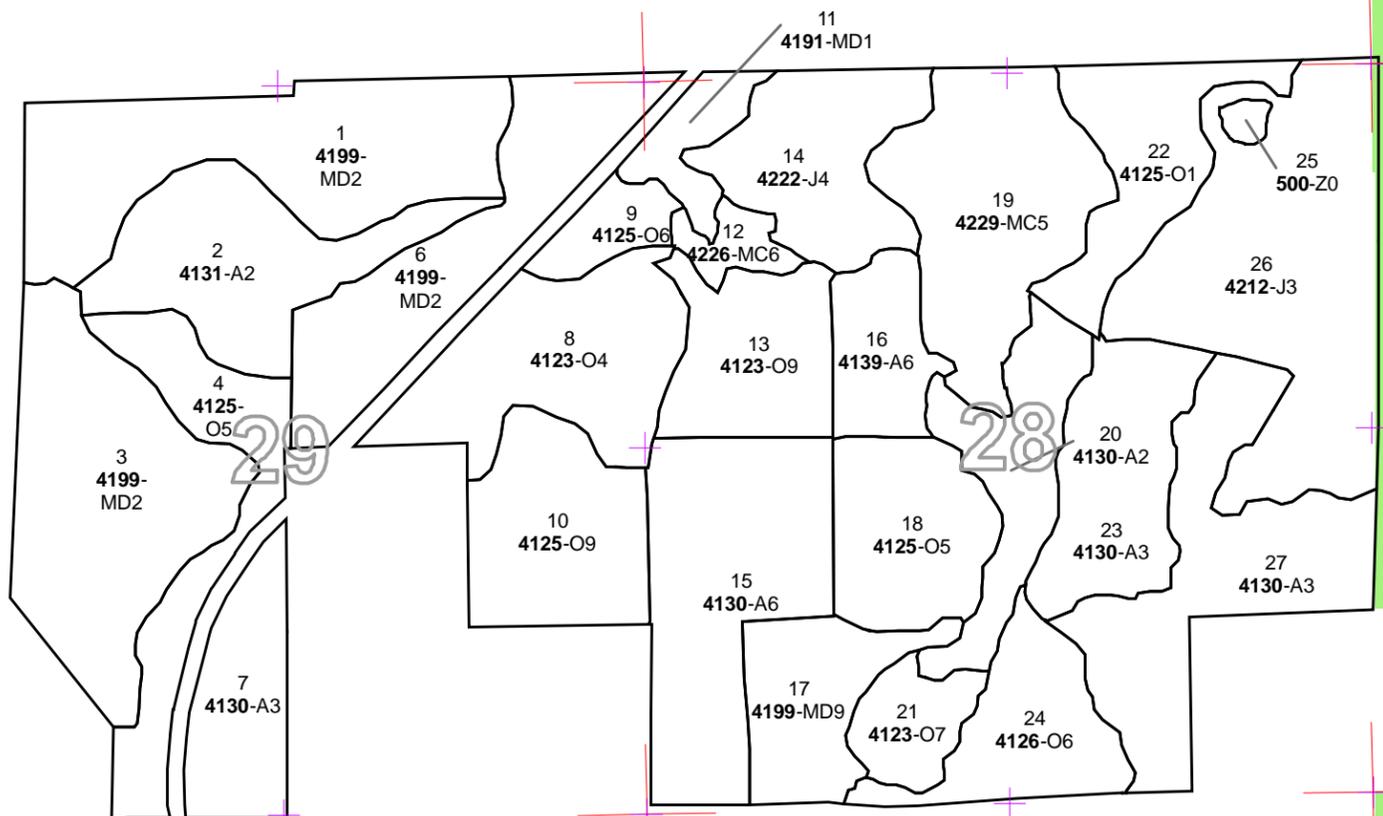
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Level 3

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Non-Forest Stands

- 500 - Water



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30 29 28

Table 1 – Total Acres by Cover Type and Age Class



	Age Class														Total
	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 +	Uneven Age	
Aspen	105	38	143	0	0	0	0	0	0	0	0	0	0	0	285
Jack Pine	0	90	0	0	0	37	0	0	0	0	0	0	0	0	127
Mixed Upland Deciduous	205	0	0	0	0	28	0	0	0	0	0	0	0	0	233
Natural Mixed Pines	0	0	0	0	58	8	0	0	0	0	0	0	0	0	66
Oak	33	0	0	0	0	0	30	187	48	0	0	0	0	0	298
Water	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Total	344	128	143	0	0	95	36	30	187	48	0	0	0	0	1011



Table 2 – Proposed Treatment Summaries

Grayling Mgt. Unit
Year of Entry 2014

Compartment 222
Total Compartment Acres: 1011

Acres by Treatment Type

Commercial Harvest - 138	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>
Oak	138	0	0	0	0	0	138
Total	138	0	0	0	0	0	138



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Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
4 72222004-Cut	35.9	4125 - Black, N. Pin Oak	Medium Density Pole	83	51-80	Harvest	Clearcut with Reserves	4131 - Aspen, Oak	Cmpt. Review Proposal

Prescription Clearcut with retention, follow stand retention guidelines. Focus some retention behind the Rest Stop.

Specs:

Other Comments: This stand was not salvaged following the four mile fire, the effects of the fire are starting to show and many of the mature aspen are dying and the oak is not in the best shape. Portion behind the rest area has the best quality and survival.

Next Steps: Anticipate a mixed stand of moderate to well stocked comprised of aspen, maple, oak and conifers.

Proposed Start Date: 10/01/2013

5 72222005-Cut	19.8	4126 - White, Black, N. Pin Oak	High Density Sapling	86	81-110	Harvest	Clearcut with Reserves	4129 - Mixed Oak	Cmpt. Review Proposal
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Prescription Clearcut with retention, follow standard retention guidelines. Leave clumps of oak as retention, clumps should be 3-5 trees in size.

Specs:

Other Comments: Stand is very park like with little to no regeneration layer. Heavy firewood activity.

Next Steps: Anticipate a mixed stand of poor to moderate stocking of oak, maple and aspen. If regeneration is insufficient then plant the site to red pine.

Proposed Start Date: 10/01/2013

9 72222009-Cut	10.6	4125 - Black, N. Pin Oak	High Density Pole	87	81-110	Harvest	Clearcut	4131 - Aspen, Oak	Cmpt. Review Proposal
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Prescription Clearcut without retention, due to small size of sale.

Specs:

Other Comments: Stand is of poor quality, looking to expand the amount of aspen as well as regenerate oak and maple.

Next Steps: If natural regeneration of the hardwood species is not of moderate to well stocked then herbicide and plant to jack pine.

Proposed Start Date: 10/01/2013

10 72222010-Cut	39.6	4125 - Black, N. Pin Oak	High Density Log	82	81-110	Harvest	Clearcut with Reserves	4131 - Aspen, Oak	Cmpt. Review Proposal
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Prescription Clearcut with retention, follow stand retention guidelines. Focus retention in areas with good white pine regeneration and mature pine.

Specs:

Other Comments: Looking to expand the amount of aspen in the future stand. Residual Pine canopy closure should be less than 25 %.

Next Steps: Acceptable regeneration is a moderate to well stocked stand containing aspen, mixed oak, maple and mixed conifer. If natural regeneration fails supplemental plant with red pine.

Proposed Start Date: 10/01/2013

**Table 3 -- Treatments Prescribed
with No Limiting Factor**



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Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
13 72222013-Cut	31.8	4123 - Red Oak	High Density Log	83	111-140	Harvest	Clearcut with Reserves	4131 - Aspen, Oak	Cmpt. Review Proposal

Prescription Clearcut with retention, follow stand retention guidelines. Try to leave aspen clones as retention.

Specs:

Other Try unique retention schemes with the aspen clones.

Comments:

Next Acceptable regeneration is moderately stock stand of mixed hardwoods.

Steps:

Proposed

Start Date: 10/01/2013

**Total Treatment
Acreage Proposed: 137.8**

Table 4 -- Treatments Prescribed with a Limiting Factor



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Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
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#Error

Prescription Specs:

Other Comment:

Next Steps:

Proposed Start Date: #Error

Limiting Factor and No Treatment Reason

Total Treatment Acreage Proposed: 0

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

Year of Entry: 2014



Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
72269_OYOE_cc	2.0					Harvest	Clearcut	4131 - Aspen, Oak	Cmpt. Review Proposal
<p><u>Prescription Specs:</u> Final harvest except leave any beech, ash, and conifers. No additional retention specified due to small stand size and the proximity of retention in comp 268 stand 28. Set up concurrent with compt 268 (2014 YOE) stand 28.</p> <p><u>Other Comments:</u></p> <p><u>Next Steps:</u> Natural regen survey. Natural regen goal is a mixture of aspen, oak and hardwoods.</p> <p><u>Proposed Start Date:</u> 10/01/2013</p>									
72272_OYOE_ccr	5.6					Harvest	Clearcut	42120 - Planted Jack Pine	Cmpt. Review Proposal
<p><u>Prescription Specs:</u> Final harvest except leave the RP & WP. No additional retention due to small stand size. Run the north & west boundary to include the operable transition ground (where the densest black spruce cover is) down to the swamp. Cut all JP & Scotch pine stems regardless of merchantability. Harvest concurrent with the adjacent comp 268 stand 6 (aquired through the same land transaction). When harvesting this stand's planted SP, site a secondary landing immediately adjacent to the plantation so that Scotch pine doesn't get dragged through the general stand area, distributing its weed seed. Add hare habitat improvement spec to fell the red-painted boundary line trees bordering the swamp.</p> <p><u>Other Comments:</u> Protect the survey monument and any witness trees associated with the north quarter corner of section 22. Borders the Lovells KW Unit, Management Block 56.</p> <p><u>Next Steps:</u> Trench and plant JP to KW specs. May need site prep treatments (that could include burning, herbicide, etc.) to control scotch pine regen before planting. Artificial regen surveys. Acceptable regen is JP at stockings suitable for KW habitat, with minor components of naturally-established mixed deciduous and native conifer species.</p> <p><u>Proposed Start Date:</u> 10/01/2013</p>									
72289_OYOE_cc	6.7					Harvest	Clearcut	42120 - Planted Jack Pine	Cmpt. Review Proposal
<p><u>Prescription Specs:</u> Final harvest, leaving any RP, WP and white oak. No additional retention due to small stand size. Treat concurrent with the adjacent comp 290 stand 26.</p> <p><u>Other Comments:</u> Protect the survey monument and witness trees associated with the quarter corner common to sections 26 & 27.</p> <p><u>Next Steps:</u> Trench and plant JP to KW specs. Artificial regen surveys. Acceptable regen is JP at stockings suitable for KW habitat, along with naturally-established oak and pine.</p> <p><u>Proposed Start Date:</u> 10/01/2013</p>									

**Total Treatment
Acreage Proposed: 14.3**



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	4199 - Other Mixed Upland Deciduous	Medium Density	71.4	3		Stand burned in the Four Mile Fire on 4/24/08. All jack pine and oak > 6" were cut. Numerous jack pine snags. Most of the regen is from stumps of oak and cherry, good natural jack pine regen. Aspen is also mixed in this stand as well. Jack pine is not a part of the overstory at this time. This stand also has a 100' easement, along the western and northern edge, for the future development of the Grayling Township pathway.
2	4131 - Aspen, Oak	Medium Density	46.5	3		Stand burned during the Four Mile Fire on 4/29/08. Stand is more densely populated the other adjacent stands. There is a good amount of natural jack pine regen as well as aspen, oak and cherry.
3	4199 - Other Mixed Upland Deciduous	Medium Density	71.9	3		Another stand burned during the Four Mile Fire, T sale # 726310801. Portions of this stand were planted with red and jack pine following the fire. Stand is coming back as a mixture of oak, maple, and aspen. There are also cherry regen occurring as well. There were super canopy red pine and oak left after the fire. A large percentage of the oak are continuing to decline or are dead. This stand experienced heavy deer browse following the 4 Mile Fire. This stand also has a 100' easement, along the western edge, for the future development of the Grayling Township pathway.
4	4125 - Black, N. Pin Oak	Medium Density Pole	35.9	83	51-80	This area was burned during the 4 Mile Fire in 2008. Stand was not salvaged following the fire. The portion along the railroad is not looking good, several log sized aspen are dead and breaking off. There is decent regeneration mainly aspen, r maple and oak. This stand is also receiving heavy firewood cutting. The only portion of this that is halfway decent is that portion by the rest area. Took 4 BA swings, recording oak, r pine, aspen, and r maple the avg BA's were 33, 7, 15, 15 respectively. Range was 40 - 80
5	4126 - White, Black, N. Pin Oak	High Density Sapling	19.8	86	81-110	Stand is next to the I-75 corridor, with a snowmobile trail on the eastern edge of this stand, there is also a powerline that runs the length of this stand as well roughly 20 -30 ft to the interior from the eastern edge. There is a single strand of wire that is also sporatically running along the cleared powerline easement that trees have grown around. Potential harvesting hazard. Stand is adjacent to the Grayling Game Club who is trespass with a new fence and locked gate that is restricting access to this site. Snowmobile trail is also gated. Stand is dominated by a mixture of oak with some maple and aspen. Subcanopy is sparse at best, park-like conditions. A lot of dead in this stand, stand is also having trees cut for firewood illegally. Stand needs a survey prior to harvest to determine the west line. Stand is 330 feet wide. 6 BA swings were taken only w oak, oak and maple were recorded with the avg BA's being 31, 60, 15 respectively, with a range of 90-140
6	4199 - Other Mixed Upland Deciduous	Medium Density	49.3	3		Another stand burned in the Four Mile Fire, stand has natural regen from seed and stump sprouts for oak, maple, cherry and aspen. The stand was planted with jack pine in May of 2010 with FTP C72-602
7	4130 - Aspen	High Density Sapling	27.2	6		Immature aspen stand with mixture of oak, r maple and cherry. Just east of the 4 mile fire. Stand was harvested in the winter of 2006. Stand is growing very well.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
8	4123 - Red Oak	Low Density Pole	49.4	88	51-80	Stand was thinned with Rail Fire Oak II 72-017-08-01. Was supposed to be thinned down to 40 BA. There is good stump sprouts from maple and oak with better than average natural oak regen. Also in the understory are white pine, aspen, and red pine. Stand BA was taken with 7 swings, BA ranged from 40 to 100, recorded species were r oak, white oak, r maple and aspen and their respective BA's were 44, 9, 2 and 2 for a stand avg of 57.
9	4125 - Black, N. Pin Oak	High Density Pole	10.6	87	81-110	Stand is heavy to mixed oak, stand is next to the railroad tracks and was not burned during the 4 Mile Fire, quality of this stand is very poor and it should be harvested. Subcanopy is not stocked very well.
10	4125 - Black, N. Pin Oak	High Density Log	39.6	82	81-110	Mature stand of oak with a mixture of Aspen, R maple, and both red and white pine. White pine is very heavy in the northern portion of this stand. Stand has a mixture of oak as well as mixture of quality. There is some oak regenerating and maple regenerating in this stand as well as white pine. There is evidence of illegal firewood cutting going on in this stand, most of the tracks seem to lead back to the private landowner to the south. Six BA swings were taken recording W Pine, R pine, Oak, Aspen and R maple, with avg BA's being 8, 10, 55, 5 and 5 respectively. BA range was 40 to 120 with an average of 83.
11	4191 - Mixed Upland Deciduous with Conifer	Low Density Sapling	12.1	3		Final harvested in 2008, FTP was issued for this stand to replant to pine, however, this stand has not been replanted. Small j and r pine were left and slash is very heavy. The heavy slash might be the reason the stand was not replanted. Stand to watch if stand does not regenerate itself then would recommend prescribed fire followed by planting. The regeneration in this stand is on the low side of medium density.
12	42260 - Natural Pine, Mixed Deciduous	High Density Pole	7.5	60	111-140	Mix stand of conifers, oak and maple. Stand provides good structure diversity. BA swings recorded w pine, r pine, j pine, oak and r maple with the following avgs per species 57, 20, 3, 33, 13 for an average of 126
13	4123 - Red Oak	High Density Log	31.8	83	111-140	Heavy signs of illegal firewood cutting. Stand has very little for understory, park like appearance. Oak is of mixed form and quality. BA swings recorded oak, r maple and aspen with avg BA's being 76, 32, 19 for a stand average of 137.
14	42220 - Natural Jack Pine	Low Density Pole	36.8	56		Stand harvested in 1995, similar make up to stand 20, just not stocked as well.
15	4130 - Aspen	High Density Pole	61.3	23		Stand was clearcut in 1988. Stand has regenerated heavy to Aspen with scattered oak and maple. Majority of the trees are in the 20 - 30 feet tall. Subcanopy as maple, service berry and oak, this is a good looking stand of young timber.
16	4139 - Aspen, Mixed Deciduous	High Density Pole	20.2	23		Stand was clearcut in 1988. Southern portion of the stand has a higher stem density then the northern portion. This stand is is predominately aspen and red maple with components of oak, w pine and cherry. Understory is a mixture of oak, maple, cherry and serviceberry.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
17	4199 - Other Mixed Upland Deciduous	High Density Log	28.0	69	81-110	Mature oak stand with maple, aspen. Radio tower is located on this site. The topography for this area is fairly steep. There are a few spots where ORV's are tearing up the hillside, will check to see if an RDR has been submitted for this stand. Stand basal area was 100 with oak being 40, maple 40 and aspen 10
18	4125 - Black, N. Pin Oak	Medium Density Pole	33.5	90	51-80	Stand was thinned in 2008 to a prescribed BA of 40. Stand has good regen of red maple throughout and in the northern end has a greater density of aspen regen. Understory is not as open as in stand 22, which was harvested at the same time. There is evidence of heavy browsing in this area. BA swings were taken (10), stand avg BA was 51 recorded species were mixed oak. BA range 20 - 60
19	42290 - Natural Mixed Pine	Medium Density Pole	58.3	57		Open stand of primarily J pine. More r pine to the north scattered with w pine too. Oak and maple are also occurring. The oak regen is good, however, the oak is being browsed pretty heavily. The understory is primarily oak and j pine. BA swings were taken and species recorded were j pine, r pine, oak, w pine and r maple with avg BA's being 14, 6, 9, 10 and 4 respectively. Stand was harvested in 1995, jack pine 5 inches and less were left.
20	4130 - Aspen	Medium Density	31.0	4		Stand was harvested in 2008, Some log sized oak were left for retention or part of neighboring stand prescription, they were included in this stand. Stand was final harvested.
21	4123 - Red Oak	Low Density Log	14.7	90	51-80	Stand was harvested in 2008, prescribed to 40 BA. Subcanopy heavy to maple with oak pockets. Majority of rm is from stump sprouts, there is nice quality oak in the residual. Stand is primarily park like with areas of heavy regen. BA swings were taken recording mixed oak, including w oak and other oaks, stand avg BA is 60, 14 white oak and 46 other oak. BA range was 20 - 100.
22	4125 - Black, N. Pin Oak	Low Density Sapling	32.5	4		Stand was final harvested in 2008, site was planted to jack pine in 2010. Stump sprouts for both oak and cherry, few pole size red pine were left.
23	4130 - Aspen	High Density Sapling	37.7	16		Stand was harvested in 1995. There are 24"+ red pine that were left in the stand, r pine and oak under 6" was also left as prescribed.
24	4126 - White, Black, N. Pin Oak	High Density Pole	30.2	73		Mixed oak stand. Mature aspen is starting to break down. Understory is very sparse, park like. Stand BA was 100, range was 50 - 130. Individual species BA was w oak 20, mixed oak 50, aspen 20 and maple 10.
26	42120 - Planted Jack Pine	High Density Sapling	89.9	15		Stand was harvested in 1987 and planted.
27	4130 - Aspen	High Density Sapling	61.5	25		Immature aspen stand harvested in 1986.



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
25	50 - Water	2.1	No	Unspecified	Barker Lake grasses along the perimeter of the lake



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



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
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.