



**Newberry Forest Management Unit
Compartment Review Presentation**
Compartment #42056 Entry Year: 2014
Compartment Acreage: 1,598 County: Chippewa

Revision Date: 09/14/2012

Stand Examiner: Jason Tokar

Legal Description: T50N R7W, Sec. 22-25

RMU (if applicable): This compartment is located within the Whitefish Vermillion Point Management Area.

Management Goals: Maintain forest productivity, forest health, species diversification, and age class diversification through silvicultural and natural processes.

Soil and Topography: The two main soil series within the compartment are Deer Park fine sand and Deer Park-Kinross complex. The topography is mainly flat ground to rolling hills.

Ownership Patterns, Development, and Land Use in and Around the Compartment: Compartment consists of a large block of contiguous State ownership, which adjoins additional State ownership to the north and east and private land to the west and south. The Companions of Christ the Lamb church camp is located directly to the south of this compartment.

Unique, Natural Features: No records listed by MNFI.

Archeological, Historical, and Cultural Features: None known in this compartment.

Special Management Designations or Considerations: None

Watershed and Fisheries Considerations: Fisheries Values: None

Fisheries Concerns: There are no water-bodies in this compartment, so Fisheries has no concerns at this time.

Wildlife Habitat Considerations: Compartment 56 is situated in north western Chippewa county and is in the Grand Marais Sandy End Moraine and Outwash ecological sub-subsection. The compartment is dominated by stands of young jack pine with a few stands of older age classes of jack pine. Species diversity in the compartment is generally low. The compartment lies in the Whitefish Point Management Area with moose, spruce grouse, red crossbill, and piping plover as designated featured species.

In a predominantly pine forested ecosystem, maintaining a variety of age and size classes and maintaining as much structural and species diversity as possible in managed stands will be important to achieving wildlife objectives. For example, retaining soft and hard mast producing species where they exist in harvested stands will help provide food sources, nest and den trees, and improve structural diversity of the stands. Species diversity of the stands will increase wildlife use and thus a variety of species will be retained after final harvests where they exist. Wildlife species thought to use this compartment include white-tailed deer, spruce grouse, red crossbill and coyote.

Mineral Resource and Development Concerns and/or Restrictions: Surface sediments consist of lacustrine (lake) sand and gravel. There is insufficient data to determine the glacial drift thickness. The Precambrian Jacobsville Sandstone subcrops below the glacial drift, and was used as a building stone in the past. Gravel pits are not located in the area, and potential appears to be limited. There is no economic oil and gas production in the UP.

Vehicle Access: Access to the compartment is primarily from the east and north via a network of two track roads off of the Widewaters Road. Access from the south is through private land.

Survey Needs: There is a need to establish corners around the NENE of Section 22 in order to accomplish the adjacent prescribed treatment.

Recreational Facilities and Opportunities: There are no designated trails or recreational facilities within this compartment. Main recreational opportunities exist of berry picking, wildlife viewing, ORV riding, and hunting.

Fire Protection: This compartment is part of the Whitefish Zone Dispatch Area. Large fire potential exists in the continuous Jack Pine fuel types. Response times are long due to its distance from available resources in Newberry. Lowland communities will make suppression tactics challenging with large wheeled suppression equipment.

Additional Compartment Information:

- **The following reports from the Inventory are attached:**
 - ◆ **Total Acres by Cover Type and Age Class**
 - ◆ **Proposed Treatment Summary**
 - ◆ **Proposed Treatments – No Limiting Factors**
 - ◆ **Proposed Treatments – With Limiting Factors**
 - ◆ **Stand Details (Forested and Nonforested)**
 - ◆ **Dedicated and Proposed Special Conservation Areas**

- **The following information is displayed, where pertinent, on the attached compartment maps:**
 - ◆ **Base feature information, stand boundaries, cover types, and numbers**
 - ◆ **Proposed treatments**
 - ◆ **Details on the road access system**

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Cover Type & Treatment Map

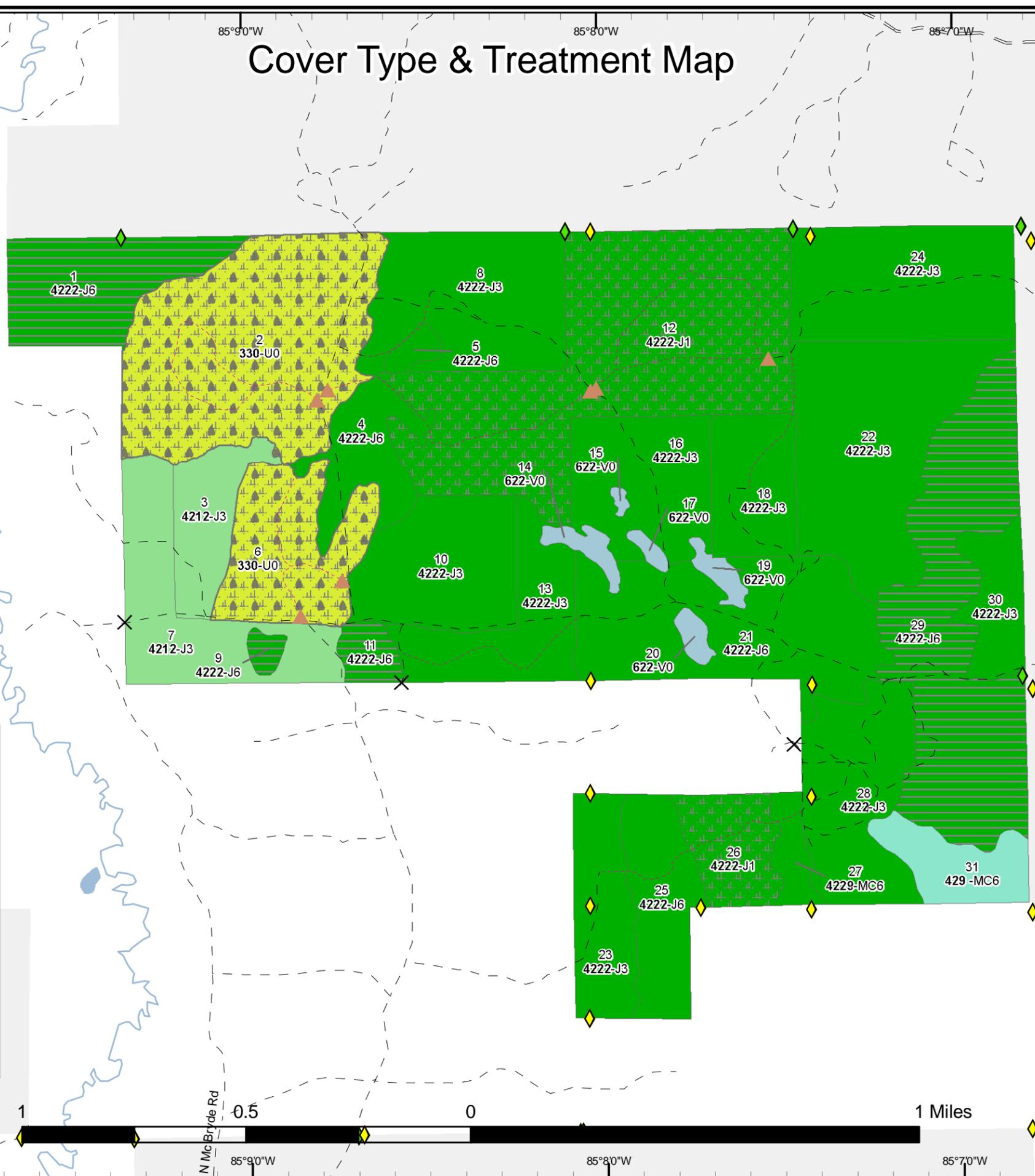
Compartment: 056
 T50N R07W Sec. 13, 22-26
 County: Chippewa
 Unit: Newberry
 YOE: 2014
 Acres: 1,598 GIS Calculated
 Examiner: Jason Tokar
 Map Revised: 10/04/2012
 Map Phase: Pre-Review

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

Legend

- Remonumented Section Corners
- Miris Corners
- Gate
- Berms
- PLSS Corner
- GPS Point
- Snowmobile Trails
- County Gravel Roads
- Gravel Roads
- Poor Dirt Roads
- Trail (Non-Recreation)
- Snowmobile Trail
- Stream
- Intermittent Stream
- Lakes and Rivers
- Non-Forest Regeneration**
- Natural
- Treatments**
- Clearcut (w/Reserves, Patch/Strip)
- Other Treatment - See Comments
- Forest Stands**
- Level 3**
- 421 - Planted Pines
- 422 - Natural Pines
- 429 - Mixed Upland Conifers
- Non-Forest Stands**
- Level 3**
- 330 - Low-Density Trees
- 622 - Lowland Shrub
- State Forest Land

		13
22	23	24
	26	25



Stand Boundary Map

Compartment: 056
 T50N R07W Sec. 13, 22-26
 County: Chippewa
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 Map Revised: 10/04/2012
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Stand #	Stocking Density
23	
(412)0 - A7	
Level 3 OI	
Level 4 Code	
Cover Type Code	

- ### Legend
- Survey Grade
 - Remonumented Section Corners
 - Miris Corners
 - Gate
 - Berms
 - PLSS Corner
 - GPS Point
 - Snowmobile Trails
 - County Gravel Roads
 - Gravel Roads
 - Poor Dirt Roads
 - Trail (Non-Recreation)
 - Snowmobile Trail
 - Stream
 - Intermittent Stream
 - Stand Boundaries
- Forest Stands**
- Level 3
- 421 - Planted Pines
 - 422 - Natural Pines
 - 429 - Mixed Upland Conifers
- Non-Forest Stands**
- Level 3
- 330 - Low-Density Trees
 - 622 - Lowland Shrub

22

23

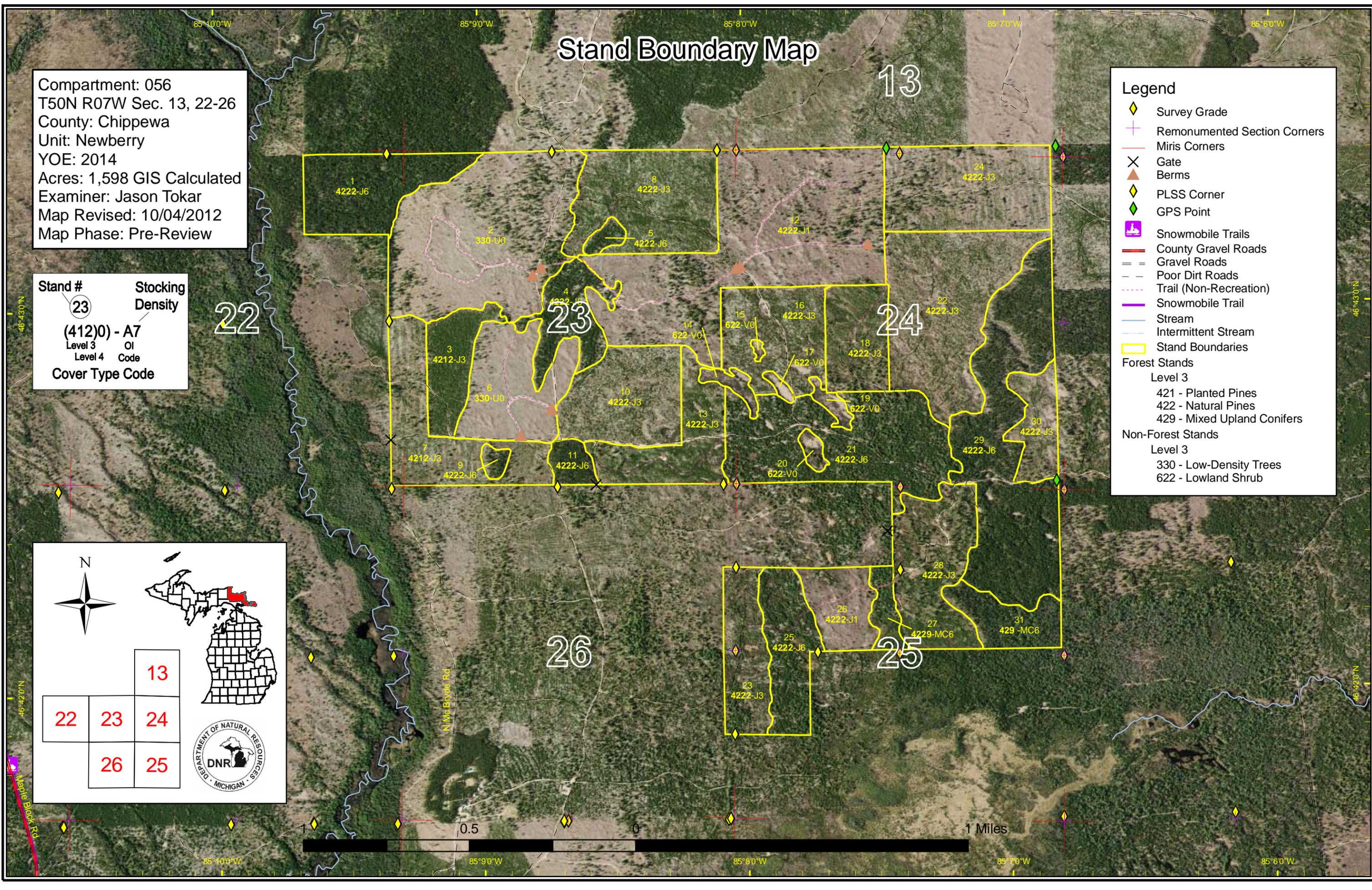
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22	23	24
	26	25



Dedicated & Proposed Special Conservation Area Map

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Compartment: 056
 T50N R07W Sec. 13, 22-26
 County: Chippewa
 Unit: Newberry
 YOE: 2014
 Acres: 1,598 GIS Calculated
 Examiner: Jason Tokar
 Map Revised: 10/04/2012
 Map Phase: Pre-Review

- Legend**
- Remonumented Section Corners
 - Miris Corners
 - Stand Boundaries
 - Dedicated Special Conservation Areas**
 - Cold Water Streams
 - Forest Stands**
 - Level 3
 - 421 - Planted Pines
 - 422 - Natural Pines
 - 429 - Mixed Upland Conifers
 - Non-Forest Stands**
 - Level 3
 - 330 - Low-Density Trees
 - 622 - Lowland Shrub

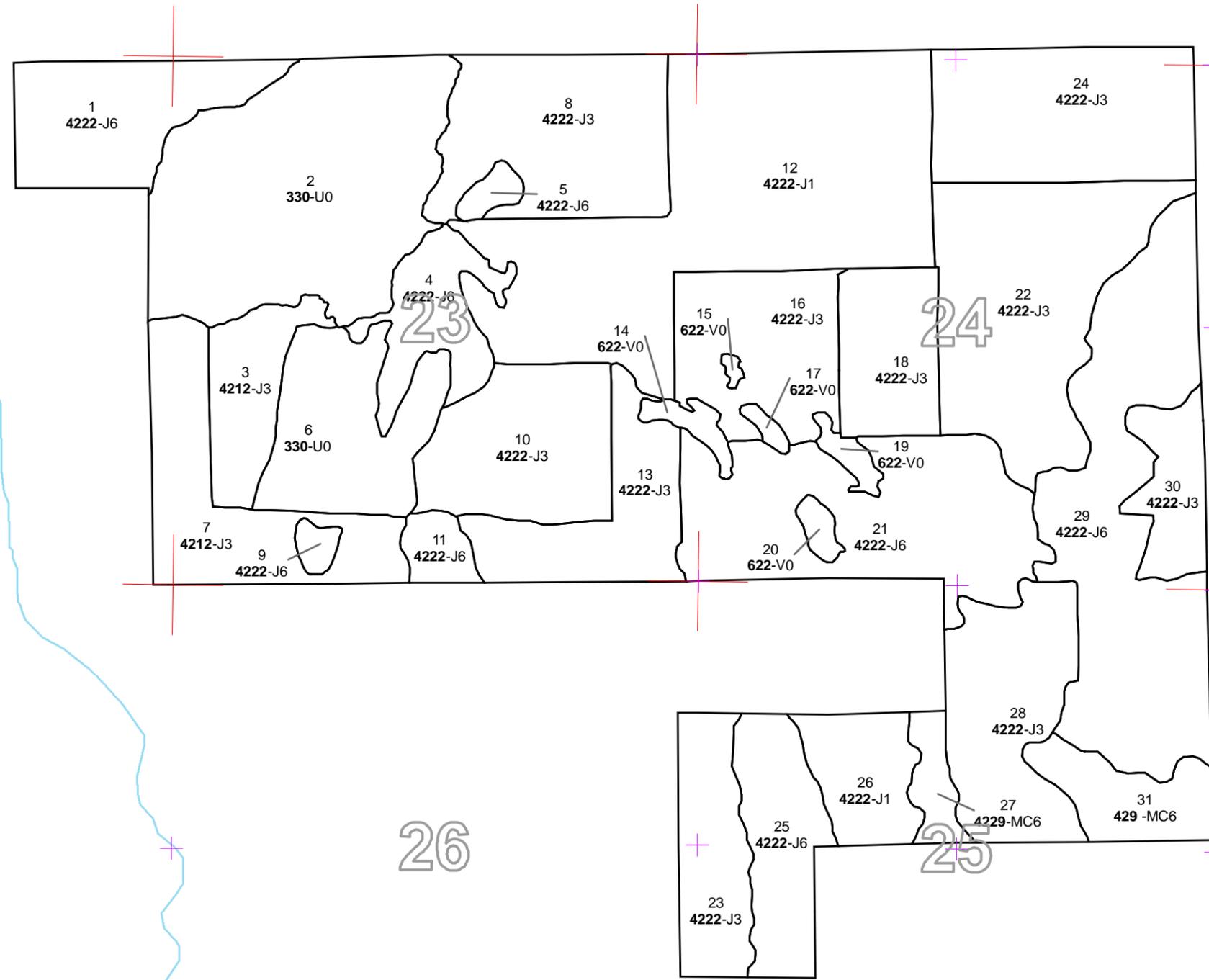
Stand # **Stocking Density**

23 **(412)0 - A7**

Level 3 OI

Level 4 Code

Cover Type Code



		13
22	23	24
	26	25

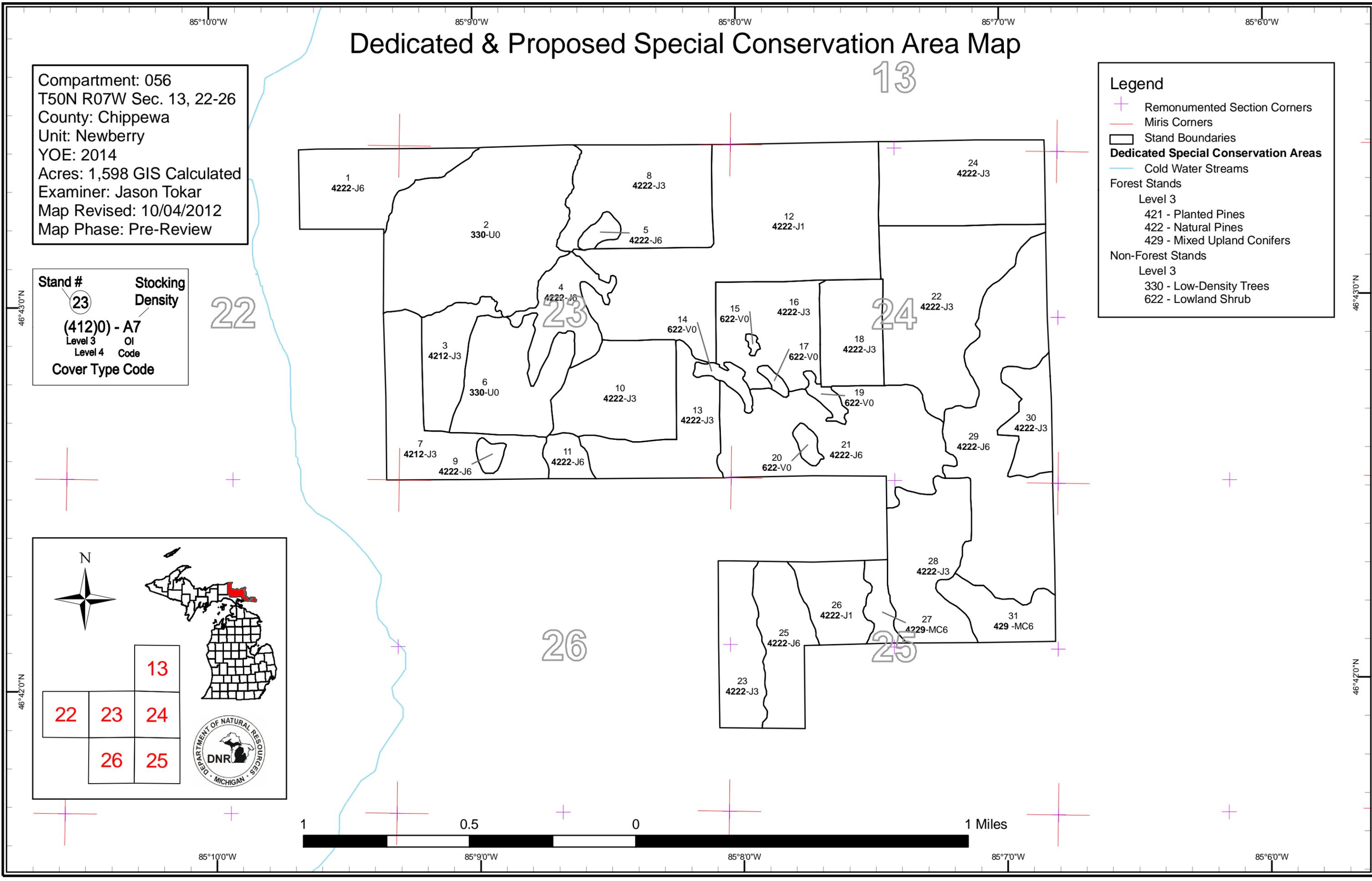
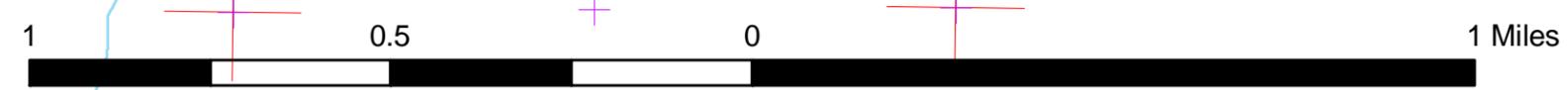


Table 1 – Total Acres by Cover Type and Age Class



	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	
Bog	19	0	0	0	0	0	0	0	0	0	0	0	0	0	19
Jack Pine	294	464	177	189	0	0	0	136	71	0	0	0	0	0	1331
Low-Density Trees	208	0	0	0	0	0	0	0	0	0	0	0	0	0	208
Natural Mixed Pines	0	0	0	12	0	0	0	0	0	0	0	0	0	0	12
Upland Conifers	0	0	0	0	0	0	28	0	0	0	0	0	0	0	28
Total	521	464	177	201	0	0	28	136	71	0	0	0	0	0	1598



Table 2 – Proposed Treatment Summaries

Newberry Mgt. Unit
Year of Entry 2014

Compartment 056
Total Compartment Acres: 1598

Acres by Treatment Type

Commercial Harvest - 207	Site Prep - 0	Tree Planting - 0	Prescribed Burn - 0	Other - 438
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>
Jack Pine	207	0	0	0	0	0	207
Total	207	0	0	0	0	0	207



S t a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
1	42056001-Cut	56.1	42220 - Natural Jack Pine	High Density Pole	82	111-140	Harvest	Clearcut with Reserves	42220 - Natural Jack Pine	Cmpt. Review Proposal
<p><u>Prescription</u> Clearcut with reserves. Leave some individual red pine, white pine and other non jack pine retention to maximize diversity for wildlife. No more than 20 BA of individual tree retention. No patch retention. No jack pine retention. Retention not to exceed 3% of total area to promote better jack pine regeneration (silvicultural reason). Use access road (bermed) through adjacent stand to east for access.</p> <p><u>Specs:</u></p> <p><u>Other</u> <u>Comments:</u></p> <p><u>Next</u> <u>Steps:</u> Scarify stand to encourage natural jack pine regeneration. Monitor for jack pine regeneration. Acceptable regeneration would be jack pine with a component of red pine, white pine and spruce. If natural regeneration fails, plant stand to jack pine.</p> <p><u>Proposed</u> <u>Start Date:</u> 10/01/2013</p>										
9	42056009-Cut	4.2	42220 - Natural Jack Pine	High Density Pole	83	111-140	Harvest	Clearcut	42220 - Natural Jack Pine	Cmpt. Review Proposal
<p><u>Prescription</u> Final harvest. Clearcut. Leave some white pine and spruce for wildlife benefits, no more than 10 BA residual. Small acreage stand, no retention needed.</p> <p><u>Specs:</u></p> <p><u>Other</u> <u>Comments:</u></p> <p><u>Next</u> <u>Steps:</u> Scarify stand to encourage natural jack pine regeneration. Monitor for jack pine regeneration. Acceptable regeneration would be jack pine with a component of white pine and spruce. If natural regeneration fails, plant stand to jack pine.</p> <p><u>Proposed</u> <u>Start Date:</u> 10/01/2013</p>										
11	42056011-Cut	10.4	42220 - Natural Jack Pine	High Density Pole	85	111-140	Harvest	Clearcut	42220 - Natural Jack Pine	Cmpt. Review Proposal
<p><u>Prescription</u> Final Harvest. Clearcut. Small acreage stand, no retention needed. Leave some white birch and small spruce, red pine and white pine for wildlife benefits. Leave no more than 10 BA residual total.</p> <p><u>Specs:</u></p> <p><u>Other</u> <u>Comments:</u></p> <p><u>Next</u> <u>Steps:</u> Scarify stand to encourage natural jack pine regeneration. Monitor for jack pine regeneration. Acceptable regeneration would be jack pine with a component of red pine, white pine and spruce. If natural regeneration fails, plant stand to jack pine.</p> <p><u>Proposed</u> <u>Start Date:</u> 10/01/2013</p>										
29	42056029-Cut	135.9	42220 - Natural Jack Pine	High Density Pole	77	111-140	Harvest	Clearcut with Reserves	42220 - Natural Jack Pine	Cmpt. Review Proposal
<p><u>Prescription</u> Clearcut with reserves. Retention to be in pockets. One pocket can be located between road and old turn around. Retention pockets to be placed in "wider" portions of the stand and around low/wet areas. Incorporate spruce and jack pine areas into the retention pockets. A minimum of 10 BA of scattered red pine, white pine and other non pine species to be retained. Total retention not to exceed 5% of harvest area. Some marking of red pine and white pine may be required. Evaluate during sale preparation.</p> <p><u>Specs:</u></p> <p><u>Other</u> <u>Comments:</u></p> <p><u>Next</u> <u>Steps:</u> Scarify stand to encourage natural jack pine regeneration. Monitor for jack pine regeneration. Acceptable regeneration would be jack pine with a component of red pine, white pine and spruce. If natural regeneration fails, plant stand to jack pine.</p> <p><u>Proposed</u> <u>Start Date:</u> 10/01/2013</p>										



Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
12	42056012- regen check	200.2	42220 - Natural Jack Pine	Low Density Sapling	7		Other	Unspecified	42220 - Natural Jack Pine	Cmpt. Review Proposal

Prescription: Continue to monitor success of desired regeneration. Regeneration check in 2014. If stand is not fully stocked, then plant to jack pine.

Specs:

Other Comments: Sale #006-04-01, completed 12/2004 and 12/2005. Some red pine and white pine blowdown were salvaged. Scarified on FTP #42-604, south half 11/2005 and north half in 11/2006. Sale #003-04-01, completed 12/2004 and scarified on FTP #42-601 in 11/2005. Regen count done in 2008 showed 114 tr/ac.

Next Steps: If stand is not fully stocked, then plant to jack pine.

Proposed Start Date: 10/01/2013

26	42056026- regen check	29.9	42220 - Natural Jack Pine	Low Density Sapling	7		Other	Unspecified	42220 - Natural Jack Pine	Cmpt. Review Proposal
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Prescription: Continue to monitor regeneration from scarification. Regeneration check in 2014.

Specs:

Other Comments: Stand was harvested as sale #005-04-01, completed 06/2005. Scarification completed on FTP #42-603 in 09/2005. Regeneration check in 2008 showed 165 tr/ac (71 JP, 94 RP).

Next Steps: If regeneration count in 2014 shows the stand is less than fully stocked, then plant the stand with jack pine. Continue to monitor for regeneration success.

Proposed Start Date: 10/01/2013

2	NF_42056002- regen check	148.1	3302 - Low Density Conifer Trees				Other	Unspecified	42220 - Natural Jack Pine	Cmpt. Review Proposal
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Prescription: Continue to monitor for success of desired regeneration. If regeneration count in 2014 shows stand is not fully stocked, then plant the stand with jack pine.

Specs:

Other Comments: Stand was harvested as sale #004-04-01. Completed 01/07. Scarification done on FTP #42-602, completed August 2007. Regen check in 2011; counts of JP < 1ft = 248 tr/ac, RP < 1ft = 129 tr/ac, WP < 1ft = 89 tr/ac.

Next Steps: If regeneration count in 2014 shows the stand is less than fully stocked, then plant the stand with jack pine. Continue to monitor for regeneration success.

Proposed Start Date: 10/01/2013

6	NF_42056006- regen check	59.5	3302 - Low Density Conifer Trees				Other	Unspecified	42220 - Natural Jack Pine	Cmpt. Review Proposal
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Prescription: Continue to monitor for desired regeneration.

Specs:

Other Comments: Stand was harvested as sale #002-04-01. Completed 01/07. Scarification done on FTP #42-600 in August 2007. Regen check done in 2011; counts JP < 1ft = 1488 tr/ac.

Next Steps: If regeneration count in 2014 shows the stand is less than fully stocked, then plant the stand with jack pine. Continue to monitor for regeneration success.

Proposed Start Date: 10/01/2013

**Total Treatment
Acreage Proposed: 644.3**

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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
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Prescription
Specs:

Other
Comments:

Next
Steps:

Proposed
Start Date: #Error

**Total Treatment
Acreage Proposed: 0**



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	42220 - Natural Jack Pine	High Density Pole	56.1	82	111-140	Mature jack pine showing mortality, rot and blowdown in the stand. Almost solid jack pine in the east and mixed with red pin, white pine and spruce in the west half. Some large diameter jack pine, up to 12 inches.
3	42120 - Planted Jack Pine	High Density Sapling	32.3	15		Young Jack Pine, 15-20 ft tall. Nice thick stand. Cut in 1992 (sale #57-85). Stand was planted in 1995 (FTP #42-224) and then again in 1999 (FTP #42-346).
4	42220 - Natural Jack Pine	High Density Pole	33.9	34	51-80	Young, pole size jack pine. Stand harvested in 1977 as sale #03-74A. Scarified in 1978 on FTP #C-160.
5	42220 - Natural Jack Pine	High Density Pole	5.2	34	1-50	Young, pole size jack pine. Transitioning from a sapling stand to a pole size stand. Stand harvested in 1977 as sale #03-74A. Scarified in 1978 on FTP #C-160.
7	42120 - Planted Jack Pine	High Density Sapling	64.2	9		Young jack pine, 6-10 ft tall. Cut in 1996 (sale #45-95), scarified in 1998 (FTP #42-407). Trenched in 2004.
8	42220 - Natural Jack Pine	High Density Sapling	80.0	20		Nice thick young jack pine. Cut as sale #57-85, scarified as FTP #42-290. Component of red pine and red maple regeneration.
9	42220 - Natural Jack Pine	High Density Pole	4.2	83	111-140	Overmature jack pine. Mortality and blowdown beginning. Fair amount of spruce and white pine.
10	42220 - Natural Jack Pine	High Density Sapling	61.7	15		Young jack pine, more open than adjacent stand. Stand harvested in 1991 as sale #57-85. Stand was scheduled to be planted but FTP completion report shows only the other stand on teh FTP as being planted. Stand is well stocked.
11	42220 - Natural Jack Pine	High Density Pole	10.4	85	111-140	Nice stand of 4-5 stick jack pine. Black spruce patches with avg dbh of 3-5 inches. Scattered small diameter white birch and occasional white pine. Some blowdown and mortality.
12	42220 - Natural Jack Pine	Low Density Sapling	200.2	7		Stand was harvested as 2 timber sales. Sale #006-04-01, completed 12/2004 and 12/2005. Some red pine and white pine blowdown were salvaged. Scarified on FTP #42-604, south half 11/2005 and north half in 11/2006. Sale #003-04-01, completed 12/2004 and scarified on FTP #42-601 in 11/2005. Regen count done in 2008 showed 114 tr/ac. Regen count in 2009 showed red/jack/white pine at 201 tr/ac, all speices combined at 312 tr/ac, 15 BA, Crown 13 - moderate stocking.
13	42220 - Natural Jack Pine	High Density Sapling	49.0	13		Young jack pine. Harvested in 1998 as sale #44-94. Scarified in 1998 on FTP #42-446. Some open areas.
16	42220 - Natural Jack Pine	High Density Sapling	56.8	20		Young jack pine, some are open grown. Small low areas/bogs throughout stand. Stand harvested as sale #56-85. Scarified on FTP #42-291.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
18	42220 - Natural Jack Pine	High Density Sapling	38.5	13		Young jack pine, 20 ft tall and thick. Harvested in 1997 as sale #41-94. Scarified in 1998 on FTP #42-417). Some scattered red pine residual from the harvest. Scattered low areas/water holes. Some red pine regeneration.
21	42220 - Natural Jack Pine	High Density Pole	107.6	35	51-80	Young pole size jack pine with good component of red pine. Residual, now supercanopy, red and white pine. Lots of small lower areas throughout the stand (all dry in 6/2012). Mainly young jack and red pine. Stand harvested in 1977 as sale #10-69A. Scarified on FTP #C-135.
22	42220 - Natural Jack Pine	High Density Sapling	109.6	12		Young jack pine, 15-20 ft tall. Stand was harvested as sale #56-85 in 1994. Scarified in 2000 on FTP #42-338. A few open areas. Scattered red pine and red maple regeneration. Some willow regen around small lower areas.
23	42220 - Natural Jack Pine	High Density Sapling	40.4	20		Young jack pine, 15-20 ft tall, 3-4 inch diameter. Stand was harvested as sale #55-85, completed in 1991. Scarified in 1992 on FTP #42-279. Southwest corner of stand is slightly older jack pine (sale #10-69 - cut in 1977 - some spruce and white pine left as residual).
24	42220 - Natural Jack Pine	High Density Sapling	81.4	13		Young jack pine, 10-15 ft tall. Residual red pine and occasional white pine. More residual in western part of stand. Stand harvested as sale #42-94, completed in 1997. Scarified in 1998 on FTP #42-408.
25	42220 - Natural Jack Pine	High Density Pole	42.5	35	1-50	Young jack pine just transitioning to pole size. Average diameter of 5-6 inch. Harvested as sale #10-69A in 1977. Scarified in 1977 on FTP #C-135.
26	42220 - Natural Jack Pine	Low Density Sapling	29.9	7		Old notes say to leave the option open to plant the stand if scarification isn't successful. Stand was harvested as sale #005-04-01, completed 06/2005. Scarification completed on FTP #42-603 in 09/2005. Regeneration check in 2008 showed 165 tr/ac (71 JP, 94 RP).
27	42290 - Natural Mixed Pine	High Density Pole	11.9	35	51-80	Stand harvested as sale #10-69A. Completed in 1977. Scarified on FTP #C-135 in 1977. North half of the stand has much more red pine, black spruce, white pine residual from the harvest than southern half. South half is more young jack pine. Good jack pine, red pine, and white pine regeneration.
28	42220 - Natural Jack Pine	High Density Sapling	65.4	13		Young jack pine with a good red pine and white birch component. Residual red pine and white pine from harvest. Stand was harvested as sale #47-94, completed in 1997. Less red pine residual in southern end and jack pine regeneration is thicker. Scarified in 1998 on FTP #42-418.
29	42220 - Natural Jack Pine	High Density Pole	135.9	77	111-140	Mature jack pine. Black spruce, red pine and white pine throughout. More black spruce in southern third of the stand. Small lower areas throughout. Stand is showing mortality, blowdown and trees snapping off (averaging 10-20 BA).

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Newberry Mgt. Unit

5 – Forested Stands

Compartment: 056

Year of Entry: 2014



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
30	42220 - Natural Jack Pine	High Density Sapling	25.8	13		Young jack pine with a real mix of other species (red pine, white birch, red maple, spruce). Some open areas. Residual overstory of red pine. Numerous small lower areas. Stand harvested as sale #43-94, completed in summer 1995. Scarified in 1998 on FTP #42-382. Some willow around low areas.
31	429 - Mixed Upland Conifers	High Density Pole	28.2	68	81-110	Mixed stand of white pine, red maple, spruce, jack pine.



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
2	3302 - Low Density Conifer Trees	148.1	Natural Regen	Jack Pine	Stand was harvested as sale #004-04-01. Completed 01/07. All red pine, white pine and white birch left as residual. Scarification done on FTP #42-602, completed August 2007. Regen check in 2011; counts of JP < 1ft = 248 tr/ac, RP < 1ft = 129 tr/ac, WP < 1ft = 89 tr/ac.
6	3302 - Low Density Conifer Trees	59.5	Natural Regen	Jack Pine	Stand was harvested as sale #002-04-01. Completed 01/07. Scarification done on FTP #42-600 in August 2007. Regen check done in 2011; counts JP < 1ft = 1488 tr/ac.
14	6225 - Bog	6.4	No	Unspecified	
15	6225 - Bog	1.1	No	Unspecified	
17	6225 - Bog	2.4	No	Unspecified	
19	6225 - Bog	5.2	No	Unspecified	
20	6225 - Bog	4.2	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



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
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.