



**PIGEON RIVER COUNTRY MANAGEMENT UNIT
COMPARTMENT REVIEW PRESENTATION**

COMPARTMENT 22 ENTRY YEAR: 2014

Compartment Acreage: 1331 County: Cheboygan

Review Date:

August 22, 2012

Stand Examiner:

Rick McDonald

Legal Description:

T33 - R01E sections 1, 2 & 3

RMU (if applicable):

Not Applicable

Management Goals:

Maintain current species mix and apply appropriate management techniques to mature stands of timber that are in need of treatment.

Soil and Topography:

Flat to gently rolling terrain with predominantly sandy soil types throughout the compartment of varying names and associations, except in the lowland swamp types. East part of compartment is more poorly drained and wet throughout much of the year.

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

Mostly solid block of state owned land with private land bordering to the north. Large block of private land in section 1 and NE1/4 of section 2 is small residential ownerships.

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

A representative from Michigan's Natural Features Inventory will be on hand at the formal compartment review.

Archeological, Historical, and Cultural Features (include only non-site specific and non-sensitive information):

None identified.

Special Management Designations or Considerations:

None

Watershed and Fisheries Considerations:

A portion of the Black River (designated trout stream) flows through the southeast part of the compartment.

Wildlife Habitat Considerations:

Please refer to Wildlife Biologist's comments.

Mineral Resource and Development Concerns and/or Restrictions:

Sections 1 - 3, T33N-R1E, Cheboygan County

Surface sediments consist of coarse-textured glacial till. The glacial drift thickness varies between 50 and 400 feet. Beneath the glacial drift is the Devonian Traverse Group, quarried for cement products and stone elsewhere in the State. Limestone quarries are located nine miles to the northwest. A gravel pit is possibly located in Section 1 and potential is considered good in the compartment. This area was previously leased for oil and gas development. The Antrim Shale is not present and the Niagaran trend lies to the south and east. There could be potential for the Collingwood/Utica Shale in this compartment.

Vehicle Access:

There is good access to most, if not all, of the compartment. Most of the forest roads, however, have been closed to wheeled motorized vehicles with virtually all those closures still intact.

Survey Needs:

None required.

Recreational Facilities and Opportunities:

The High Country Pathway passes through sections 2 and 3.

Fire Protection:

Access is generally good in case of any fire suppression efforts, though the area is generally at low risk to any wildfire potential. Most road systems are closed with berms.

Additional Compartment Information:

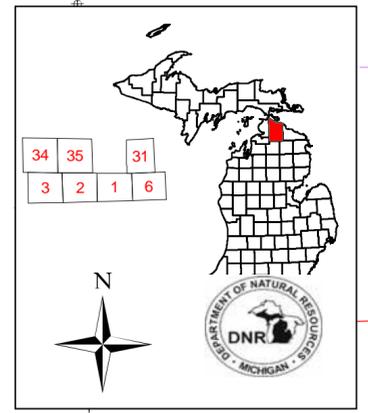
- **The following reports from IFMAP are attached:**
 - ◆ **Cover Type by Age Class**
 - ◆ **Cover Type by Management Objective**
 - ◆ **Compartment Volume Summary**
 - ◆ **Proposed Treatments – No Limiting Factors**
 - ◆ **Proposed Treatments – With Limiting Factors**

- **The following information is displayed, where pertinent, on the attached compartment maps:**
 - ◆ **Base feature information, stand numbers, cover types, road access system**
 - ◆ **Proposed treatments**
 - ◆ **Special ecological designations**
 - ◆ **Recreational facilities**

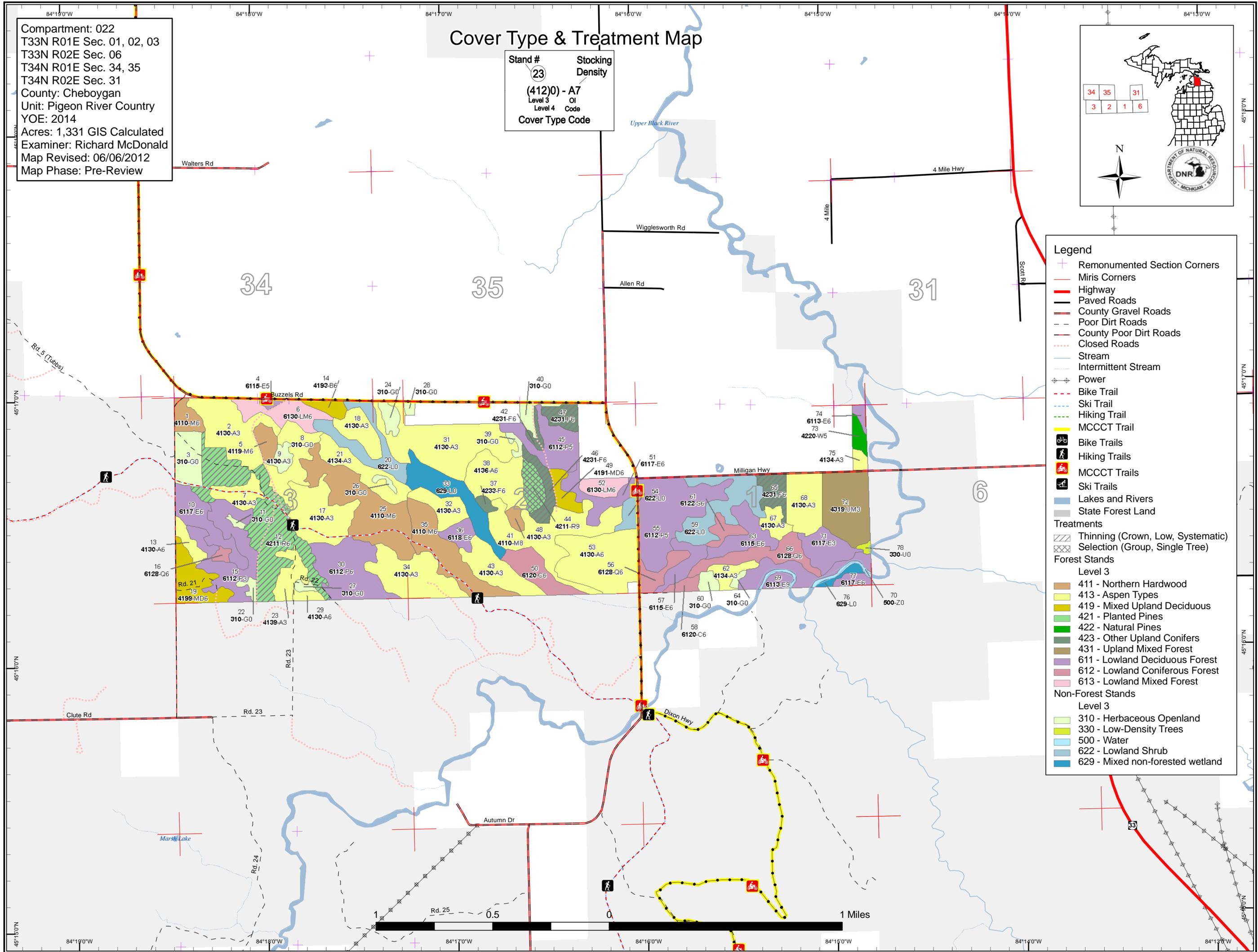
Compartment: 022
 T33N R01E Sec. 01, 02, 03
 T33N R02E Sec. 06
 T34N R01E Sec. 34, 35
 T34N R02E Sec. 31
 County: Cheboygan
 Unit: Pigeon River Country
 YOE: 2014
 Acres: 1,331 GIS Calculated
 Examiner: Richard McDonald
 Map Revised: 06/06/2012
 Map Phase: Pre-Review

Cover Type & Treatment Map

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



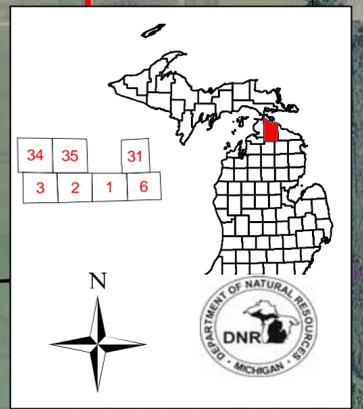
- ### Legend
- ✦ Remonumented Section Corners
 - ✦ Miris Corners
 - Highway
 - Paved Roads
 - County Gravel Roads
 - Poor Dirt Roads
 - County Poor Dirt Roads
 - Closed Roads
 - Stream
 - Intermittent Stream
 - ⚡ Power
 - Bike Trail
 - Ski Trail
 - Hiking Trail
 - MCCCT Trail
 - 🚲 Bike Trails
 - 👤 Hiking Trails
 - 🚲 MCCCT Trails
 - 👤 Ski Trails
 - 🌊 Lakes and Rivers
 - 🌲 State Forest Land
- ### Treatments
- ▨ Thinning (Crown, Low, Systematic)
 - ▨ Selection (Group, Single Tree)
- ### Forest Stands
- Level 3
- 411 - Northern Hardwood
 - 413 - Aspen Types
 - 419 - Mixed Upland Deciduous
 - 421 - Planted Pines
 - 422 - Natural Pines
 - 423 - Other Upland Conifers
 - 431 - Upland Mixed Forest
 - 611 - Lowland Deciduous Forest
 - 612 - Lowland Coniferous Forest
 - 613 - Lowland Mixed Forest
- ### Non-Forest Stands
- Level 3
- 310 - Herbaceous Openland
 - 330 - Low-Density Trees
 - 500 - Water
 - 622 - Lowland Shrub
 - 629 - Mixed non-forested wetland



Compartment: 022
 T33N R01E Sec. 01, 02, 03
 T33N R02E Sec. 06
 T34N R01E Sec. 34, 35
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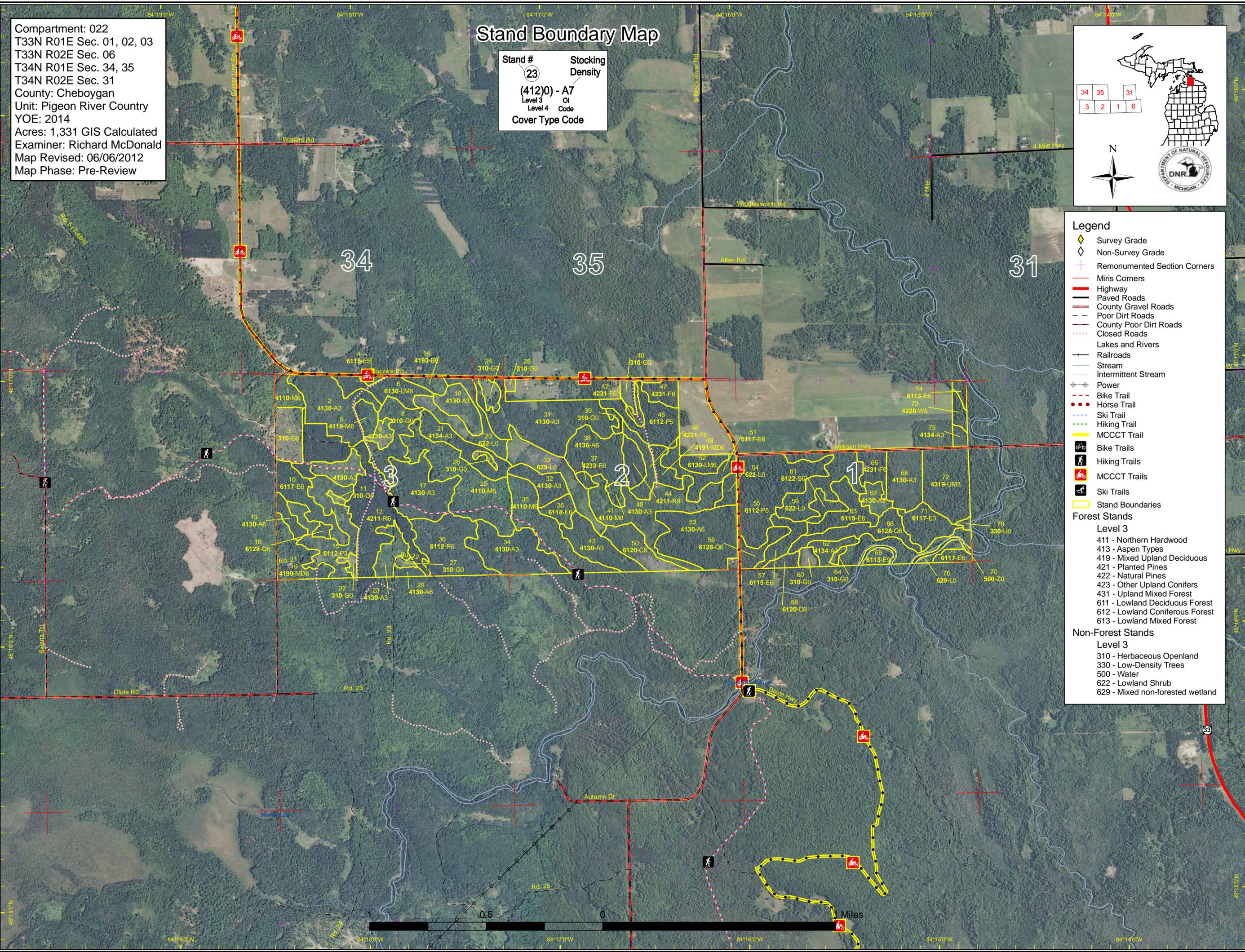
Stand Boundary Map

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



Legend

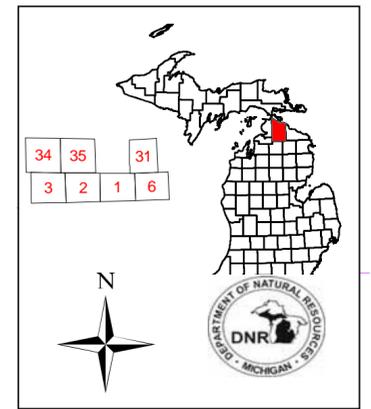
- Survey Grade
 - Non-Survey Grade
 - Remonumented Section Corners
 - Miris Corners
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 - Paved Roads
 - County Gravel Roads
 - Poor Dirt Roads
 - County Poor Dirt Roads
 - Closed Roads
 - Lakes and Rivers
 - Railroads
 - Stream
 - Intermittent Stream
 - Power
 - Bike Trail
 - Horse Trail
 - Ski Trail
 - Hiking Trail
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Dedicated & Proposed Special Conservation Area Map

Compartment: 022
 T33N R01E Sec. 01, 02, 03
 T33N R02E Sec. 06
 T34N R01E Sec. 34, 35
 T34N R02E Sec. 31
 County: Cheboygan
 Unit: Pigeon River Country
 YOE: 2014
 Acres: 1,331 GIS Calculated
 Examiner: Richard McDonald
 Map Revised: 06/06/2012
 Map Phase: Pre-Review

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



- Legend**
- + Remonumented Section Corners
 - Miris Corners
 - Stand Boundaries
 - ▭ Dedicated Special Conservation Areas
 - Cold Water Streams
- Forest Stands**
- Level 3**
- 411 - Northern Hardwood
 - 413 - Aspen Types
 - 419 - Mixed Upland Deciduous
 - 421 - Planted Pines
 - 422 - Natural Pines
 - 423 - Other Upland Conifers
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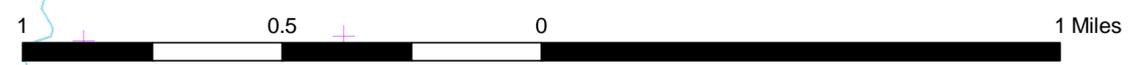
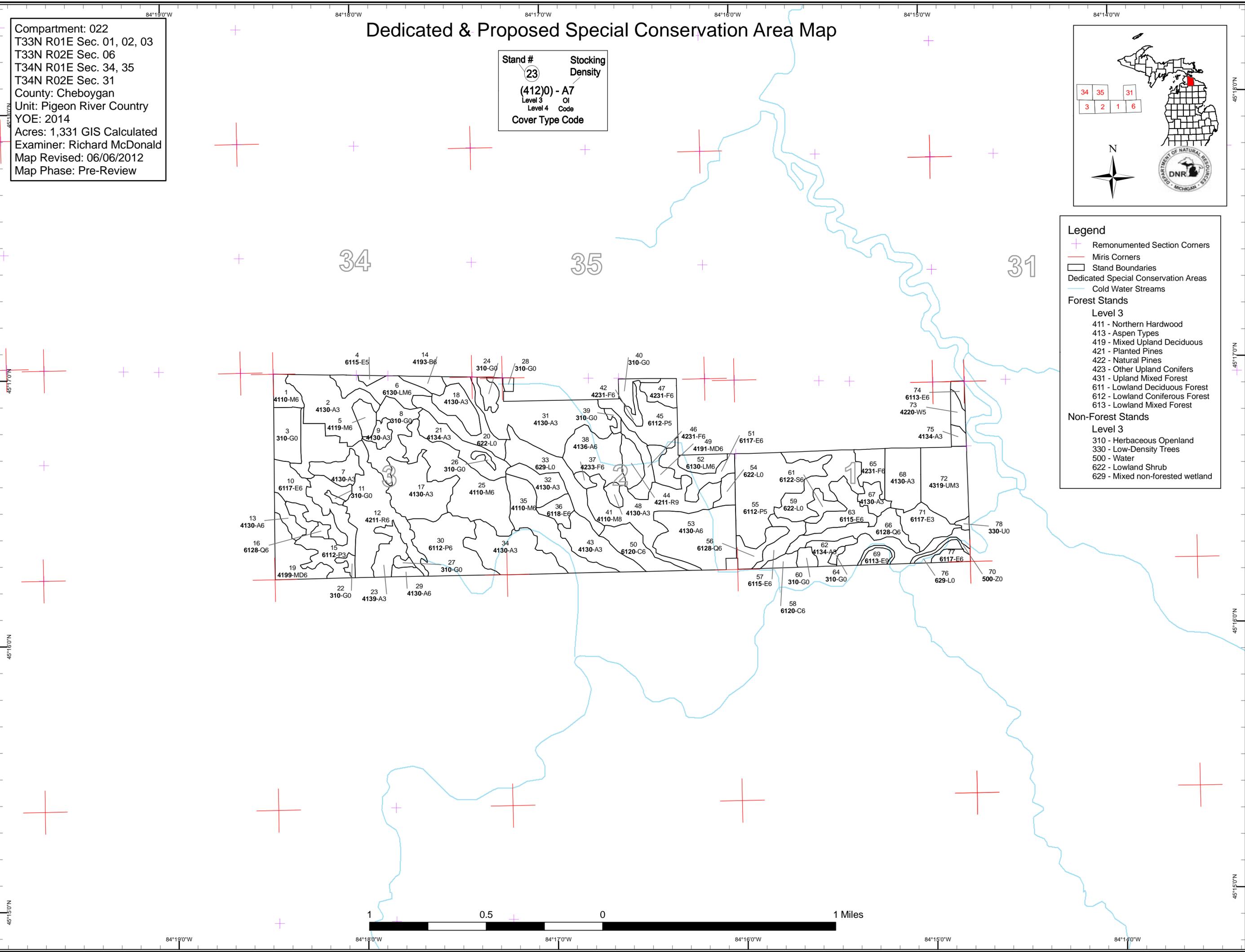


Table 1 – Total Acres by Cover Type and Age Class



	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	47	91	247	41	56	0	0	0	0	0	0	0	0	0	482
Cedar	0	0	0	0	0	0	0	0	0	19	4	0	0	0	23
Herbaceous Openland	52	0	0	0	0	0	0	0	0	0	0	0	0	0	52
Low-Density Trees	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Lowland Aspen/Balsam Poplar	0	39	0	41	0	0	58	26	0	0	0	0	0	0	163
Lowland Conifers	0	0	0	0	0	0	11	0	2	0	22	0	0	0	35
Lowland Deciduous	0	0	0	18	24	12	16	35	0	24	0	0	0	0	128
Lowland Mixed Forest	0	0	0	0	0	0	0	19	9	0	0	0	0	0	28
Lowland Shrub	93	0	0	0	0	0	0	0	0	0	0	0	0	0	93
Lowland Spruce/Fir	0	0	0	0	0	0	0	7	0	0	0	0	0	0	7
Mixed Upland Deciduous	0	0	0	0	0	0	0	30	0	0	0	0	0	0	30
Northern Hardwood	0	0	0	0	0	0	0	56	0	0	0	0	0	56	112
Paper Birch	0	0	0	0	0	0	0	6	0	0	0	0	0	0	6
Red Pine	0	0	0	0	0	83	0	0	0	0	0	0	0	0	83
Upland Mixed Forest	0	0	0	0	0	0	0	0	0	0	0	0	0	38	38
Upland Spruce/Fir	0	0	0	0	12	23	0	3	0	0	0	0	0	0	38
Water	5	0	0	0	0	0	0	0	0	0	0	0	0	0	5
White Pine	0	0	0	0	0	0	5	0	0	0	0	0	0	0	5
Total	199	129	247	100	92	118	89	182	11	43	26	0	0	95	1331



Don River Country Mgt. Unit
Year of Entry 2014

Table 2 – Proposed Treatment Summaries

Compartment 022
Total Compartment Acres: 1331

Acres by Treatment Type

Commercial Harvest - 108	Site Prep - 0	Tree Planting - 0	Prescribed Burn - 0	Other - 0
Habitat Cut - 9	Opening Maintenance - 0	Tree Seeding - 0	Pesticide - 0	

Cover Type by Harvest Method

	Clearcut	Selection	Seed Tree	Shelterwood	Thinning	Other - Specify	Total Acres
Red Pine	0	10	0	0	72	0	83
Upland Spruce/Fir	0	0	0	0	35	0	35
Total	0	10	0	0	107	0	118



Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
12	53022012-Cut	72.4	42110 - Planted Red Pine	High Density Pole	52	141-170	Harvest	Crown Thinning	42110 - Planted Red Pine	Cmpt. Review Proposal

Prescription: Recommend single tree selection to thin out the crown down to approx. 120 BA. Avoid pockets of regenerating Aspen left from the last cut.
Specs:

Other Comments: This stand was row thinned in 1996. There are some pockets of heavier Aspen regeneration. in some areas of the stand.

Next Steps:

Proposed Start Date: 10/01/2013

42	53022042-Cut	3.5	42310 - Planted Spruce	High Density Pole	51	111-140	Harvest	Systematic Thinning	42310 - Planted Spruce	Cmpt. Review Proposal
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Prescription: Row thin the spruce. Recommend taking 2 rows and leaving 2 rows.
Specs:

Other Comments:

Next Steps:

Proposed Start Date: 10/01/2013

44	53022044-Cut	10.3	42110 - Planted Red Pine	High Density Log	51	111-140	Harvest	Group Selection	42110 - Planted Red Pine	Cmpt. Review Proposal
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Prescription: Recommend group selection along with some individual selection to try and stimulate natural regeneration. Gap sizes should range from 60-100'. Cutting specs. should include the bark beetle spec.

Other Comments: This stand was row-thinned in 1996 and selectively marked in 2006.

Next Steps:

Proposed Start Date: 10/01/2013

46	53022046-Cut	10.6	42310 - Planted Spruce	High Density Pole	51	141-170	Harvest	Systematic Thinning	42310 - Planted Spruce	Cmpt. Review Proposal
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Prescription: Row thinning. Take every other row.
Specs:

Other Comments:

Next Steps:

Proposed Start Date: 10/01/2013



S t a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
47	53022047-Cut	9.3	42310 - Planted Spruce	High Density Pole	51	111-140	Harvest	Systematic Thinning	42310 - Planted Spruce	Cmpt. Review Proposal

Prescription Row thinning. Take 2 rows/leave 2 rows.

Specs:

Other Low, wet ground with alot of tag alder understory might give competition to any regeneration that might be starting after cutting. Will have to
Comments: monitor.

Next
Steps:

Proposed
Start Date: 10/01/2013

65	53022065-Cut	11.6	42310 - Planted Spruce	High Density Pole	46	111-140	Harvest	Systematic Thinning	42310 - Planted Spruce	Cmpt. Review Proposal
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Prescription Row thin. Take 2 rows/leave 2 rows.

Specs:

Other
Comments:

Next
Steps:

Proposed
Start Date: 10/01/2013

**Total Treatment
Acreage Proposed: 117.6**

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
53056_OutOfYOE-Burn	18.2					Prescribed Burn	Unspecified	3205 - Mixed Upland Shrub	Cmpt. Review Proposal
<u>Prescription</u> -Moderate intensity burn to reduce encroaching woody vegetation, mainly black cherry. <u>Specs:</u> <u>Other Comments:</u> <u>Next Steps:</u> <u>Proposed Start Date:</u> Unspecified									

Total Treatment Acreage Proposed: 18.2

Stand	Pigeon River Country Mgt. Unit			5 – Forested Stands		Compartment: 022	General Comments:
	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Year of Entry: 2014	
1	4110 - Sugar Maple Association	High Density Pole	8.8	78	51-80		
2	4130 - Aspen	High Density Sapling	38.7	24			
4	6115 - Lowland Ash	Medium Density Pole	1.9	40	1-50	Wet lowland hardwood with alot of dying timber due to water levels.	
5	4119 - Mixed Northern Hardwoods	High Density Pole	7.2	78	81-110	Small hardwood island - not great quality	
6	6130 - Fir, Aspen, Maple	High Density Pole	19.3	78	51-80		
7	4130 - Aspen	High Density Sapling	12.4	7		Good regeneration. High Country Pathway runs through the stand.	
9	4130 - Aspen	High Density Sapling	23.7	17		Significant amount of browse damage. There is an Elk enclosure within this stand	
10	6117 - Lowland Deciduous, Mixed Coniferous	High Density Pole	21.6	42	1-50	Very wet, poor quality	
12	42110 - Planted Red Pine	High Density Pole	72.4	52	141-170		
13	4130 - Aspen	High Density Pole	6.7	40	1-50		
14	4193 - Birch, Aspen	High Density Pole	6.1	78	51-80		
15	6112 - Lowland Aspen	High Density Sapling	39.0	17			
16	6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	2.5	82	51-80		
17	4130 - Aspen	High Density Sapling	35.9	25		Nice stand of young aspen. High Country Pathway runs through the stand.	
18	4130 - Aspen	High Density Sapling	15.3	13		Some mild browse damage along edges, but pretty good stand overall.	
19	4199 - Other Mixed Upland Deciduous	High Density Pole	22.0	70	81-110	Moderate quality hardwood with lots of multiple stems. Some Sugar Maple could produce quality logs in time. Aspen component is highly variable throughout stand and occurs in pockets.	



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Pigeon River Country Mgt. Unit

5 – Forested Stands

Compartment: 022
Year of Entry: 2014

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
21	4134 - Aspen, Spruce/Fir	High Density Sapling	21.9	25		Good regeneration. Portions of stand along creek bottom has had some negative impacts from beaver activity in the past.
23	4139 - Aspen, Mixed Deciduous	High Density Sapling	12.8	7		Stand with good mix of sugar maple with aspen regeneration.
25	4110 - Sugar Maple Association	High Density Pole	56.3	Uneven Age	81-110	This stand had the Aspen removed with adjacent stand 17 in 1987. Heavy sugar maple and ash reproduction throughout.
29	4130 - Aspen	High Density Pole	3.3	38	51-80	Part of larger stand to the south.
30	6112 - Lowland Aspen	High Density Pole	40.8	38	51-80	Low, wet run through the middle of the stand. Different characteristics than east and west edges of the stand as they rise up to higher ground, but the stand shares the same cutting history.
31	4130 - Aspen	High Density Sapling	60.0	28		
32	4130 - Aspen	High Density Sapling	14.2	1		
34	4130 - Aspen	High Density Sapling	37.9	25		Regeneration is well stocked overall, but is somewhat patchy.
35	4110 - Sugar Maple Association	High Density Pole	36.1	74	51-80	Hardwood ridge was thinned in 2010/11. High Country Pathway runs through the stand.
36	6118 - Lowland Deciduous with Cedar	High Density Pole	8.3	78	51-80	Wet stand. Water flows through during most of the year. Stand was prescribed last time, but had a limiting factor.
37	42330 - Upland Fir	High Density Pole	2.6	74	1-50	Pocket of fir that never got cut when stand 38 was cut last time.
38	4136 - Aspen, Mixed Conifer	High Density Pole	29.6	36	1-50	Nice overall stand of emerging pole-size Aspen. Stand thins out as you go west.
41	4110 - Sugar Maple Association	Medium Density Log	3.8	74	1-50	Small stand of hardwood along the edge of an aspen cut. Aspen was cut and hardwood was left.
42	42310 - Planted Spruce	High Density Pole	3.5	51	111-140	
43	4130 - Aspen	High Density Sapling	24.0	24		
44	42110 - Planted Red Pine	High Density Log	10.3	51	111-140	This stand was row-thinned in 1996 and selectively marked in 2006.
45	6112 - Lowland Aspen	Medium Density Pole	25.8	75	1-50	Scattered Aspen over Tag Alder. Very wet stand.

S t a n d	Pigeon River Country Mgt. Unit			5 – Forested Stands		Compartment: 022	General Comments:
	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Year of Entry: 2014	
46	42310 - Planted Spruce	High Density Pole	10.6	51	141-170		
47	42310 - Planted Spruce	High Density Pole	9.3	51	111-140		
48	4130 - Aspen	High Density Sapling	51.6	16			Good regeneration. Some pockets are open.
49	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	8.3	74	81-110		On the edge of wet area. Lot of deer moving through the area.
50	6120 - Lowland Cedar	High Density Pole	18.7	92	51-80		Creek flowing through stand. Thick stand but is dying on the south end.
51	6117 - Lowland Deciduous, Mixed Coniferous	High Density Pole	15.6	62	51-80		Very wet pretty much all year. Springs coming along the edges of the stand.
52	6130 - Fir, Aspen, Maple	High Density Pole	9.0	80	81-110		Higher ground surrounded by low, wet ground. The stand borders farm field along it's north edge.
53	4130 - Aspen	High Density Pole	49.8	42	51-80		Nice stand coming along but not quite ready. This stand encompasses a hell with the outer edges being at the bottom and the east and south sides of the stand have a lot more varied species mix as it transitions into stand 56.
55	6112 - Lowland Aspen	Medium Density Pole	57.9	63	51-80		Wet with not real good timber. Not sure if cutting would benefit it or not. Trees are scattered with heavy tag alder under brush throughout most of the stand.
56	6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	10.6	63	51-80		Poor quality wood with wet ground bordering drainage with lowland hardwood
57	6115 - Lowland Ash	High Density Pole	11.7	50	1-50		
58	6120 - Lowland Cedar	High Density Pole	4.5	102	111-140		
61	6122 - Black Spruce	High Density Pole	6.9	78	81-110		Spruce pocket on slightly higher ground surrounded by low inundated swamp.
62	4134 - Aspen, Spruce/Fir	High Density Sapling	8.0	36	1-50		Emerging pole stand
63	6115 - Lowland Ash	High Density Pole	18.9	70	51-80		Wet hardwood with creek flowing through from stand 63 and into the Black River.
65	42310 - Planted Spruce	High Density Pole	11.6	46	111-140		



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Pigeon River Country Mgt. Unit

5 – Forested Stands

Compartment: 022
Year of Entry: 2014

	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
66	6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	21.8	102	51-80	Somewhat wet stand a little higher than adjacent stand. Poor quality timber with difficult access.
67	4130 - Aspen	High Density Sapling	7.9	5		Good regeneration
68	4130 - Aspen	High Density Sapling	25.3	22		
69	6113 - Lowland Maple	High Density Log	23.9	90	81-110	Black River floodplain
71	6117 - Lowland Deciduous, Mixed Coniferous	High Density Sapling	18.4	37		Predominantly Black Ash
72	4319 - Mixed Upland Forest	High Density Sapling	38.2	Uneven Age		Thick, multi-species stand with remnant Red and White Pine scattered throughout the stand.
73	42200 - Natural White Pine	Medium Density Pole	5.0	62	1-50	
74	6113 - Lowland Maple	High Density Pole	2.9	75	51-80	Part of river floodplain
75	4134 - Aspen, Spruce/Fir	High Density Sapling	3.3	20		
77	6117 - Lowland Deciduous, Mixed Coniferous	High Density Pole	4.8	70	81-110	Lowland poplar near river floodplain. No access to this area.



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
3	3102 - Grass	17.4	No	Unspecified	
8	3103 - Rubus-Fern	5.5	No	Unspecified	
11	3102 - Grass	1.4	No	Unspecified	Sandy ridgeline that drops off both sides into the aspen
20	6229 - Mixed lowland shrub	22.7	No	Unspecified	Creek bottom with old beaver floodings. Most of timber has died. Dams are gone and streams are free flowing
22	3105 - Mixed Upland Herbaceous	2.7	No	Unspecified	
24	3105 - Mixed Upland Herbaceous	5.9	No	Unspecified	Natural grassy opening with some scattered white pine.
26	3105 - Mixed Upland Herbaceous	1.7	No	Unspecified	
27	3105 - Mixed Upland Herbaceous	2.1	No	Unspecified	
28	3102 - Grass	1.6	No	Unspecified	
33	629 - Mixed non-forested wetland	27.5	No	Unspecified	
39	3105 - Mixed Upland Herbaceous	2.4	No	Unspecified	
40	3105 - Mixed Upland Herbaceous	5.9	No	Unspecified	Old barn foundation in the middle of the opening.
54	6220 - Alder/willow	5.8	No	Unspecified	
59	6223 - Inundated Shrub Swamp	33.8	No	Unspecified	
60	3102 - Grass	4.1	No	Unspecified	An opening that part of, I believe, used to be an old oil pad.
64	3102 - Grass	1.6	No	Unspecified	Natural opening
70	50 - Water	4.6	No	Unspecified	Black River
76	629 - Mixed non-forested wetland	3.4	No	Unspecified	Marsh floodplain along river



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
78	3301 - Low Density Deciduous Tree	1.4	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
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.