



# Compartment Review Presentation

## Pigeon River Country Forest Management Unit

Compartment 23

Entry Year 2016

Acreage: 1,828

County Cheboygan

Management Area: Pigeon River Country

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**Revision Date:** 08/29/2014

**Stand Examiner:** Richard McDonald

**Legal Description:**

T33N R01E Sections 7, 8, 9

**Identified Planning Goals:**

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

**Soil and topography:**

Compartment is generally flat to slightly rolling terrain. Soil is a real mixture of mucks, peats and water retaining loams. All types contribute to the wet nature which prevails throughout this compartment.

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

Solid state ownership with the exception of two private parcels in section 8 and 9. These private ownerships are used primarily for recreational retreats with no apparent conflict with State management strategies.

**Unique Natural Features:**

A representative from Michigan's Natural Features Inventory may be on hand at the formal compartment review to answer any questions.

**Archeological, Historical, and Cultural Features:**

No Archeological, Historical, or Cultural Features known.

**Special Management Designations or Considerations:**

None

**Watershed and Fisheries Considerations:**

Although the compartment has extensive areas of marsh, lowland brush and conifer swamp, there is no major stream or body of water. The unnamed creek that forms in the southeast portion of section 9 appears to drain most of this compartment into the Black River.

**Wildlife Habitat Considerations:**

A Wildlife Division representative will be available to participate in the formal compartment review to address any habitat concerns.

**Mineral Resource and Development Concerns and/or Restrictions**

Surface sediments consist of glacial outwash sand and gravel and postglacial alluvium. Blacial drift thickness varies between 10 and 400 feet. Beneath the glacial drift is the Devonian Antrim Shale and Traverse Group that are quarried for cement products and stone elsewhere in the State. The nearest gravel pit is located miles away, but potential is considered good although, in keeping with the Concept of Management, extraction of surface minerals will rarely be allowed. This area is previously leased for oil and gas development in the Niagaran reef trend. The Antrim Shale is thin or missing in this area and there is no potential. The Niagaran reef trend is located just to the south of this compartment and there may be some potential, however, this compartment falls entirely within the Consent Order Area so no new leases shall be issued in this area.

**Vehicle Access:**

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

**Survey Needs:**

None required

**Recreational Facilities and Opportunities:**

Primary recreational pursuit throughout this compartment is hunting.

**Fire Protection:**

Access is good in case of any fire suppression effort, though the area is generally at low risk to any wildfire potential.

**Additional Compartment Information:**

**The following reports from the Inventory are attached:**

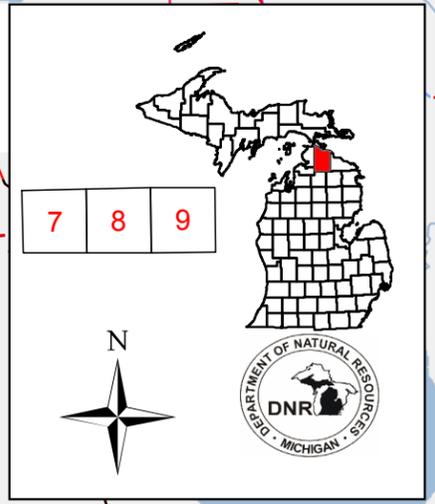
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

**The following information is displayed, where pertinent, on the attached compartment maps:**

- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

# Cover Type & Treatment Map

Compartment: 023  
 T33N R01E Sec. 07,08,09  
 County: Cheboygan  
 Unit: Pigeon River Country  
 YOE: 2016  
 Acres: 1,828 GIS Calculated  
 Examiner: Richard McDonald  
 Map Revised: 06/25/2014  
 Map Phase: Pre-Review



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

### Legend

- ✚ Remonumented Section Corners
- Miris Corners
- Highway
- County Paved Roads
- Paved Roads
- County Gravel Roads
- == Gravel Roads
- - Poor Dirt Roads
- - County Poor Dirt Roads
- - Trail (Non-Recreation)
- - Ski Trail
- - Hiking Trail
- - Bike Trail
- Horse Trail
- 🚶 Hiking Trails
- 🐎 Horse Trails
- 🏂 Ski Trails
- Stream
- Intermittent Stream
- Lakes and Rivers
- State Forest Land

### Treatments

- ▨ Clearcut (w/Reserves, Patch/Strip)
- ▨ Thinning (Crown, Low, Systematic)
- ▨ Mowing

### Forest Stands

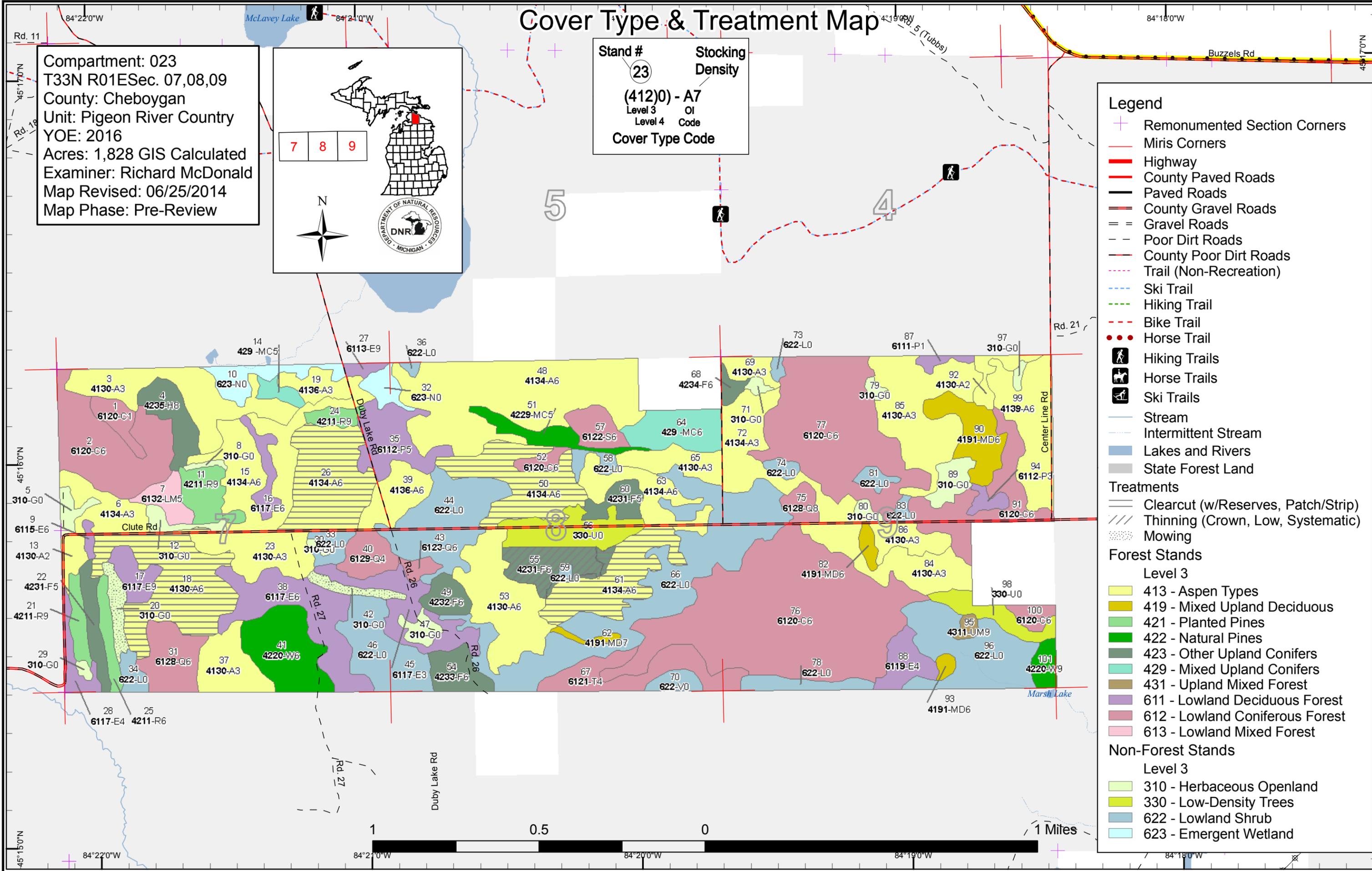
Level 3

- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers
- 431 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest

### Non-Forest Stands

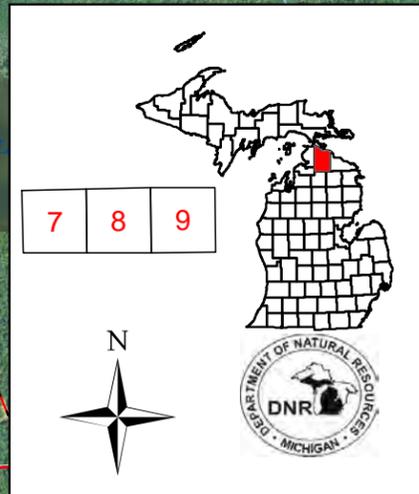
Level 3

- 310 - Herbaceous Openland
- 330 - Low-Density Trees
- 622 - Lowland Shrub
- 623 - Emergent Wetland



# Stand Boundary Map

Compartment: 023  
 T33N R01E Sec. 07,08,09  
 County: Cheboygan  
 Unit: Pigeon River Country  
 YOE: 2016  
 Acres: 1,828 GIS Calculated  
 Examiner: Richard McDonald  
 Map Revised: 05/12/2014  
 Map Phase: Pre-Review



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

**Legend**

- ✦ Remonumented Section Corners
- Miris Corners
- Highway
- County Paved Roads
- Paved Roads
- County Gravel Roads
- Gravel Roads
- Poor Dirt Roads
- County Poor Dirt Roads
- Trail (Non-Recreation)
- 🚶 Hiking Trails
- 🐎 Horse Trails
- 🎿 Ski Trails
- Ski Trail
- Hiking Trail
- Bike Trail
- Horse Trail
- Stream
- Intermittent Stream
- ▭ Stand Boundaries

**Forest Stands**

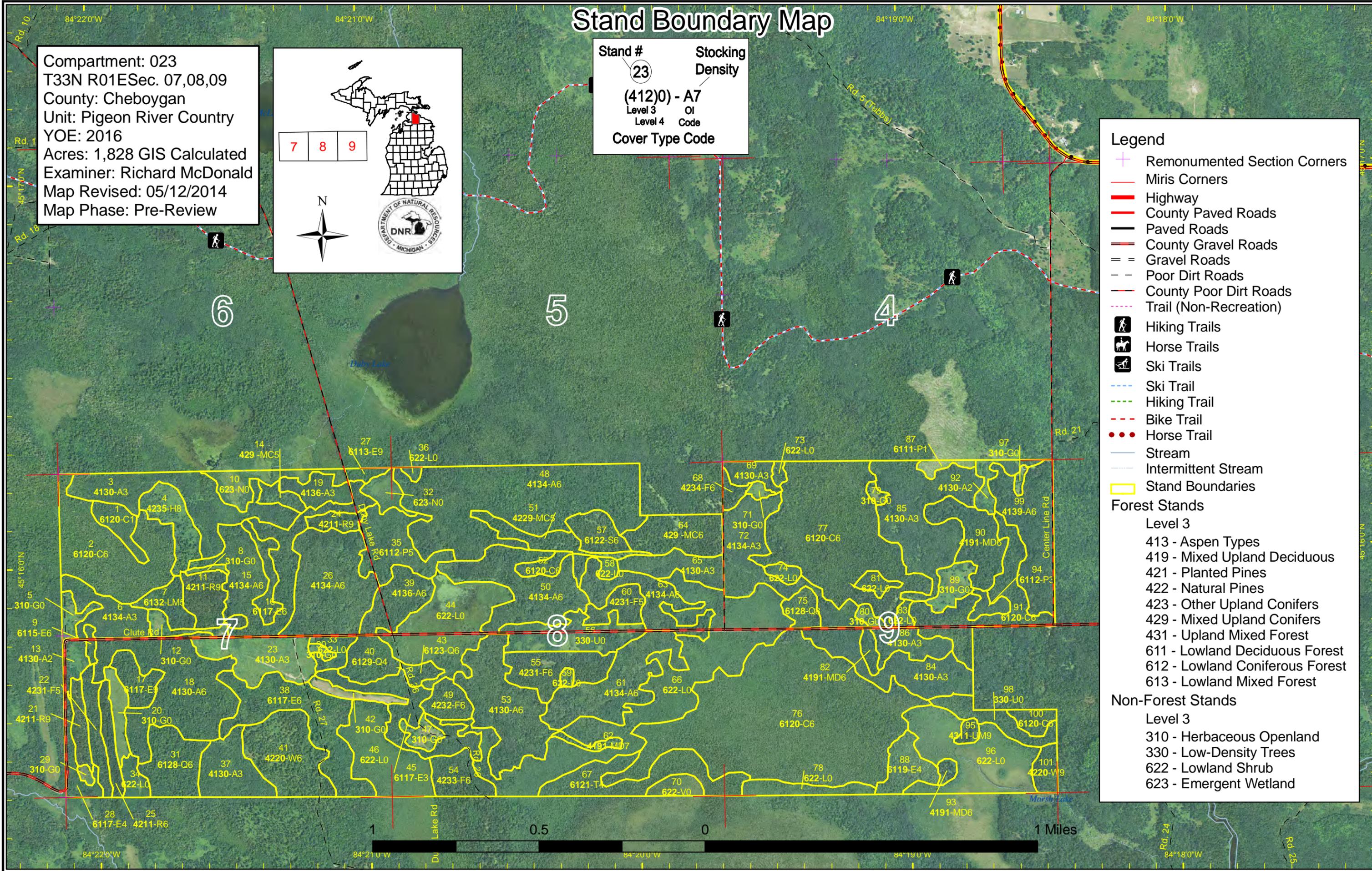
Level 3

- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 423 - Other Upland Conifers
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**Non-Forest Stands**

Level 3

- 310 - Herbaceous Openland
- 330 - Low-Density Trees
- 622 - Lowland Shrub
- 623 - Emergent Wetland

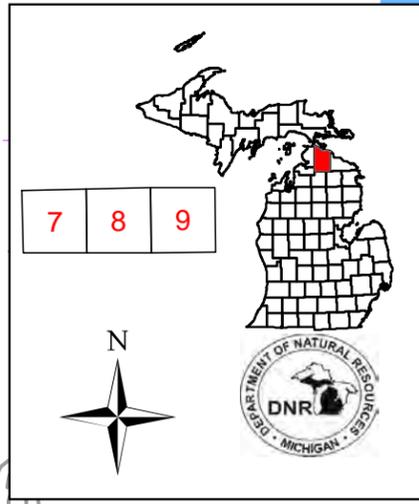


# Special Conservation Areas & Site Conditions Map

84°22'0"W

84°18'0"W

Compartment: 023  
 T33N R01E Sec. 07,08,09  
 County: Cheboygan  
 Unit: Pigeon River Country  
 YOE: 2016  
 Acres: 1,828 GIS Calculated  
 Examiner: Richard McDonald  
 Map Revised: 05/12/2014  
 Map Phase: Pre-Review



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

**Legend**

- Remonumented Section Corners
- Miris Corners
- Stand Boundaries
- Available w/ Constraints (Factor - Number)
- Unavailable (Factor - Number)

**Site Condition Type**

Available Factors W/ Constraints

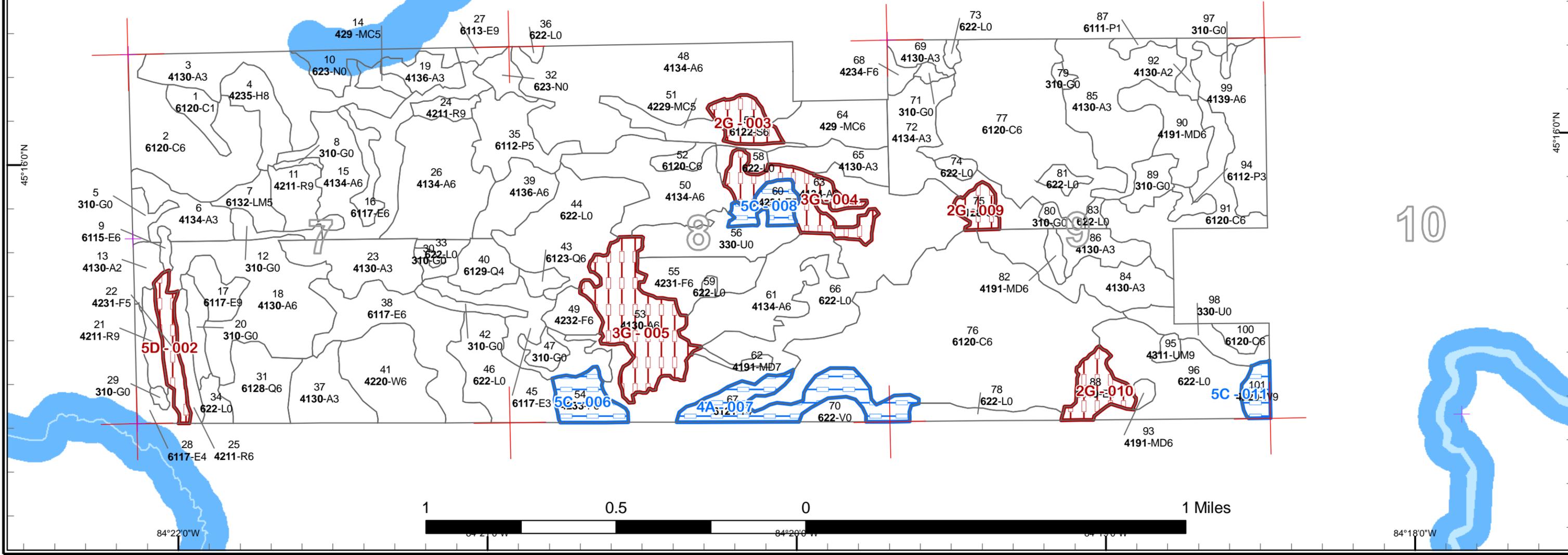
- 4A: No merchantable products (see product standards)
- 5C: Delay treatment for age/size class diversity or exceptional site quality

Unavailable Factors

- 2G: Too wet (sensitive soils, does not include access issues)
- 3G: Other Influence zones - See comments
- 5D: Unproductive Forest Land

**Special Conservation Areas**

- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer

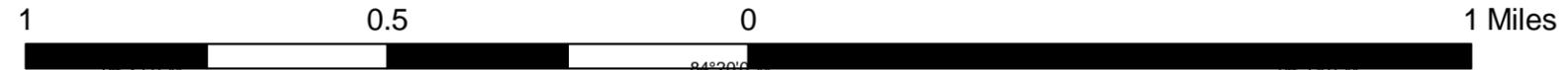


84°22'0"W

84°20'0"W

84°18'0"W

84°18'0"W



45°17'0"N

45°16'0"N

45°17'0"N

45°16'0"N

Report 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	25	13	178	145	140	190	0	0	0	0	0	0	0	0	690
Bog	6	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Cedar	0	0	0	0	0	0	0	156	9	142	0	32	0	0	340
Hemlock	0	0	0	0	0	0	0	0	0	15	0	0	0	0	15
Herbaceous Openland	47	0	0	0	0	0	0	0	0	0	0	0	0	0	47
Low-Density Trees	35	0	0	0	0	0	0	0	0	0	0	0	0	0	35
Lowland Aspen/Balsam Poplar	3	0	23	4	0	0	0	0	0	0	0	0	0	0	30
Lowland Conifers	0	0	0	0	0	4	20	18	0	0	0	0	0	0	42
Lowland Deciduous	0	0	0	24	8	10	0	49	15	0	0	0	0	0	105
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	9	0	0	0	0	9
Lowland Shrub	247	0	0	0	0	0	0	0	0	0	0	0	0	0	247
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	0	10	0	0	0	0	10
Marsh	19	0	0	0	0	0	0	0	0	0	0	0	0	0	19
Mixed Upland Deciduous	0	0	0	0	0	0	0	4	23	2	0	0	0	0	29
Natural Mixed Pines	0	0	0	0	0	0	0	0	11	0	0	0	0	0	11
Red Pine	0	0	0	0	0	34	0	0	0	0	0	0	0	0	34
Tamarack	0	0	0	0	0	0	0	0	0	28	0	0	0	0	28
Upland Conifers	0	0	0	0	5	0	0	0	20	0	0	0	0	0	25
Upland Mixed Forest	0	0	0	0	0	0	0	0	0	3	0	0	0	0	3
Upland Spruce/Fir	0	0	0	9	0	40	12	3	0	0	0	0	0	0	64
White Pine	0	0	0	0	0	0	0	0	31	0	0	6	0	0	38
<b>Total</b>	<b>382</b>	<b>13</b>	<b>201</b>	<b>181</b>	<b>152</b>	<b>278</b>	<b>33</b>	<b>230</b>	<b>111</b>	<b>210</b>	<b>0</b>	<b>38</b>	<b>0</b>	<b>0</b>	<b>1828</b>



## Report 2 – Proposed Treatment Summaries

Don River Country Mgt. Unit  
Year of Entry 2016

Compartment 023  
Total Compartment Acres: 1,828

### Acres by Treatment Type

Commercial Harvest - 192    Tree Planting - 0    Other - 0  
Habitat Cut - 0    Opening Maintenance - 12

### Cover Type by Harvest Method

	Clearcut	Selection	Seed Tree	Shelterwood	Thinning	Other - Specify	Total Acres
Aspen Types	174	0	0	0	0	0	174
Other Upland Conifers	0	0	0	0	18	0	18
<b>Total</b>	<b>174</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>18</b>	<b>0</b>	<b>192</b>



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Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
18 53023018-Cut	54.7	4130 - Aspen	High Density Pole	53	81-110	Harvest	Clearcut with Reserves	4130 - Aspen	Cmpt. Review Proposal

Prescription Clearcut with reserves with 2-3 retention islands within the stand. Also, mark larger diameter trees throughout the stand to fall for grouse drumming logs. Brush piles for Hare habitat will be created during or upon completion of logging operations. VMS spec 5.2.4.1.

Other Comments:

Next Steps: Follow regeneration survey guidelines/timelines for monitoring regeneration success.

Proposed Start Date: 10/01/2015

26 53023026-Cut	44.3	4134 - Aspen, Spruce/Fir	High Density Pole	47	81-110	Harvest	Clearcut with Reserves	4134 - Aspen, Spruce/Fir	Cmpt. Review Proposal
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Prescription Clearcut w/ reserves with 2-3 retention islands within the stand. Also, mark larger diameter trees throughout the stand to fall and leave for grouse drumming logs. Use VMS spec. 5.2.4.1 for Hare habitat conditions (brush piles) during logging operations or upon completion.

Other Comments: Portions of this stand can be rather wet much of the year, so it may necessitate a winter cut only spec.

Next Steps: Follow regeneration survey guidelines/timelines for monitoring regeneration success.

Proposed Start Date: 10/01/2015

50 53023050-Cut	37.9	4134 - Aspen, Spruce/Fir	High Density Pole	55	81-110	Harvest	Clearcut with Reserves	4134 - Aspen, Spruce/Fir	Cmpt. Review Proposal
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Prescription Clearcut w/ reserves with 2-3 retention islands within the stand. Also, mark trees throughout the stand to cut and leave for grouse drumming logs. Create brush piles for Hare habitat during or upon completion of logging operations using VMS spec 5.2.4.1.

Other Comments: The stand can be rather seasonably wet throughout the year. I recommend a winter cut.

Next Steps: Follow regeneration survey guidelines/timelines for monitoring regeneration success.

Proposed Start Date: 10/01/2015

55 53023055-Cut	17.6	42310 - Planted Spruce	High Density Pole	53	141-170	Harvest	Systematic Thinning	42310 - Planted Spruce	Cmpt. Review Proposal
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Prescription Thin by cutting 2 rows and leaving 2 rows. Combine with stand 61 to make it easier to sell. Extend stand 61's boundary into this stand where aspen is available to expand the aspen type.

Other Comments: Recommend a winter cut to prevent insect and disease infestation following logging operations.

Next Steps: Cut remainder of the stand when stand 53 is cut

Proposed Start Date: 10/01/2015



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Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
61 53023061-Cut	37.4	4134 - Aspen, Spruce/Fir	High Density Pole	55	81-110	Harvest	Clearcut with Reserves	4134 - Aspen, Spruce/Fir	Cmpt. Review Proposal

Prescription Clearcut w/ reserves with 2-3 retention islands scattered within the stand. Also, mark larger diameter trees throughout the stand to cut and leave for grouse drumming logs. Create brush piles for Hare habitat during logging operations of upon completion using VMS spec 5.2.4.1

Other Comments: The stand can be rather seasonably wet at times. I recommend a winter cut.

Next Steps: Follow regeneration survey guidelines/timelines to monitor for regeneration success.

Proposed Start Date: 10/01/2015

20 NF_53023020-NonFor	7.2	3102 - Grass				Non-Forest Management	Mowing	3102 - Grass	Cmpt. Review Proposal
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Prescription Mow and fertilize

Other Comments:

Next Steps:

Proposed Start Date: Unspecified

42 NF_53023042-NonFor	5.1	3102 - Grass				Non-Forest Management	Mowing	3102 - Grass	Cmpt. Review Proposal
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Prescription Mow and fertilize

Other Comments:

Next Steps:

Proposed Start Date: Unspecified

**Total Treatment Acreage Proposed: 204.3**



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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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#Type! #Type!

Prescription Specs:

Other Comment:

Next Steps:

Proposed Start Date: #Type!

Limiting Factor

**Total Treatment Acreage Proposed: 0.0**

## Report 5 – Site Conditions

Pigeon River Country Mgt. Unit  
Richard McDonald : Examiner

Compartment 023  
Year of Entry 2016

### Availability for Management

Availability for Management			Dominant Site Conditions					
Total Acres	Acres Available	Acres Not Available		No	5D	5C	3G	2G
690	627	63	Aspen	627			63	
340	340		Cedar	340				
15	15		Hemlock	15				
30	30		Lowland Aspen/Balsam Poplar	30				
42	36	7	Lowland Conifers	36				7
105	93	12	Lowland Deciduous	93				12
9	9		Lowland Mixed Forest	9				
10		10	Lowland Spruce/Fir					10
29	29		Mixed Upland Deciduous	29				
11	11		Natural Mixed Pines	11				
34	34		Red Pine	34				
28		28	Tamarack					28
25	25		Upland Conifers	25				
3	3		Upland Mixed Forest	3				
64	41	23	Upland Spruce/Fir	32	10	9		12
38	38		White Pine	31		6		
1,473	1,331	143	Total Forested Acres	1,315	10	15	63	70
	90%	10%	Relative Percent					

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

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
002	Not Available	5D: Unproductive Forest Land	10				
<b>Comments:</b> Very narrow swale with sparse timber and heavy tag alder understory.							
003	Not Available	2G: Too wet (sensitive soils, does not include access issues)	10				
<b>Comments:</b>							

## Report 5 – Site Conditions

Pigeon River Country Mgt. Unit  
Richard McDonald : Examiner

Compartment 023  
Year of Entry 2016

004	Not Available	3G: Other Influence zones - See comments	22		
<b>Comments:</b> Was part of stand 50 to be clearcut, but had to separate to stay close to the 40 acre clearcut limitation set forth in the Concept of Management.					
005	Not Available	3G: Other Influence zones - See comments	41		
<b>Comments:</b> This was part of stand 61 to be clearcut but had to be separated to stay close to the 40 acre clearcut limitation set forth in the Concept of Management.					
006	Not Available	2G: Too wet (sensitive soils, does not include access issues)	12	5C: Delay treatment for age/size class diversity or exceptional site quality	2I: Survey needed
<b>Comments:</b> Heavier fir, aspen is sparse in many places.					
007	Not Available	2G: Too wet (sensitive soils, does not include access issues)	28	4A: No merchantable products (see product standards)	
<b>Comments:</b>					
008	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	9		
<b>Comments:</b> Treat with adjacent aspen stand next entry.					
009	Not Available	2G: Too wet (sensitive soils, does not include access issues)	7	4A: No merchantable products (see product standards)	
<b>Comments:</b>					

010	<b>Not Available</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	12	4A: No merchantable products (see product standards)
<b>Comments:</b>				
011	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	6	
<b>Comments:</b> To be managed with larger portion of stand to the east in compartment 24.				



**Report 6 – PROPOSED SPECIAL CONSERVATION AREA\* (SCA) DETAILS**

\* This is a partial list of SCAs for this compartment. Not included are those areas identified under other Department initiatives (Natural Rivers, Deer Wintering Areas, etc.). Those will be identified in separate, future map and report products.

SCA Name	SCA Category	Detail Type	Recommendation	Acres
<b>Comments</b>				



### Report 7 – EXISTING SPECIAL CONSERVATION AREA DETAILS

\* This is a list of SCA's for this compartment along with a 1/4 mile buffer surrounding the compartment. Refer to the Special Conservation Area Map for locations of the below listed Conservation Areas.

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.
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in which the terrestrial ecosystem influences the aquatic ecosystem and vice-versa. Because of the unique conditions adjacent to lakes, streams and open water wetlands, riparian areas harbor a high diversity of plants and wildlife. Riparian communities are ecologically and socially significant in their effects on water quality and quantity, as well as aesthetics, habitat, bank stability, timber production, and their contribution to overall biodiversity.

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## Pigeon River Country Mgt. Unit

## Report 8 – Forested Stands

Compartment: 023  
Year of Entry: 2016

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	6120 - Lowland Cedar	Low Density Sapling	8.1	97	1-50	Very wet part of the swamp which is stunting the growth of what timber is growing. The stand is predominantly tag alder.
2	6120 - Lowland Cedar	High Density Pole	47.6	95	51-80	Wet, poor quality swamp with not really good growth on the conifers. Tag Alder is abundant in the understory.
3	4130 - Aspen	High Density Sapling	39.3	25		
4	42350 - Upland Hemlock	Medium Density Log	15.2	90	1-50	Stand was last cut in 1998. Everything was cut except Hemlock, Cedar and White Pine. Browsing has had an impact on the aspen and maple regeneration.
6	4134 - Aspen, Spruce/Fir	High Density Sapling	17.0	25		Thick, young aspen with heavy fir component.
7	6132 - Mixed Lowland Forest with Cedar	Medium Density Pole	9.1	90	51-80	Quite wet mixed conifer/hardwood stand. Not good quality
9	6115 - Lowland Ash	High Density Pole	2.0	50	1-50	Wet Black Ash swale with tag alder/willow
11	42110 - Planted Red Pine	High Density Log	13.9	53	81-110	Red Pine plantation was row thinned in 1997 and selectively thinned again in 2007.
13	4130 - Aspen	Medium Density	5.9	16		Areas of this stand have suffered extensive browse damage and is more prevalent higher on the slope.
14	429 - Mixed Upland Conifers	Medium Density Pole	4.5	40	1-50	Old opening filling with Fir, W. Pine, Spruce and Aspen.
15	4134 - Aspen, Spruce/Fir	High Density Pole	44.1	47	81-110	Part of stand 24 that was split off so 24 could get close to the 40 acre limit established in the Concept of Management.
16	6117 - Lowland Deciduous, Mixed Coniferous	High Density Pole	7.7	47	51-80	Wet lowland hardwood run through aspen stand
17	6117 - Lowland Deciduous, Mixed Coniferous	High Density Log	9.6	76	111-140	Real wet stand with cedar understory. Leave as retention pocket when stand 17 is cut.
18	4130 - Aspen	High Density Pole	54.7	53	81-110	Good quality aspen stand
19	4136 - Aspen, Mixed Conifer	High Density Sapling	9.3	25		
21	42110 - Planted Red Pine	High Density Log	7.2	53	81-110	Red Pine plantation was row-thinned in 1997 and had a 2nd selection thinning in 2007.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
22	42311 - Planted Spruce, Mixed Deciduous	Medium Density Pole	10.3	53	1-50	Spruce plantation in a swale. Spruce is not fully stocked. Much of the area has filled in with tag alder
23	4130 - Aspen	High Density Sapling	24.6	5		Some areas devoid of aspen regeneration and there has been some browsing impacts on this stand but it looks like it will make it through alright.
24	42110 - Planted Red Pine	High Density Log	5.3	53	51-80	Red Pine plantation was row thinned in 1997, but due to lesser stocking was not thinned again in 2007.
25	42110 - Planted Red Pine	High Density Pole	7.7	53	51-80	Stand was row-thinned in 1997. Stand was not fully stocked at first thin - some open areas. Low ground characteristics with tag alder in pockets, probably clay ground with perched water table.
26	4134 - Aspen, Spruce/Fir	High Density Pole	44.3	47	81-110	Nice pole aspen stand with some wet areas seasonally. Nearly all aspen in this area is of similar age class. This stand is ready for clearcut but leave some retention areas maybe in conjunction with some wet areas to protect.
27	6113 - Lowland Maple	High Density Log	2.6	87	51-80	Lowland hardwood creek running through eventually into DUBY Lake.
28	6117 - Lowland Deciduous, Mixed Coniferous	Low Density Pole	8.3	55	1-50	Wet mixed lowland poplar with conifer and heavy tag alder underneath. Pretty much wet all year.
31	6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	20.5	66	81-110	
35	6112 - Lowland Aspen	Medium Density Pole	23.1	25	1-50	Wet, brushy area with pockets of decent aspen
37	4130 - Aspen	High Density Sapling	19.8	25		
38	6117 - Lowland Deciduous, Mixed Coniferous	High Density Pole	39.0	74	51-80	Very wet hardwood year around. More conifer the further west in the stand.
39	4136 - Aspen, Mixed Conifer	High Density Pole	16.8	47	81-110	Part of stand 24 that was split off to make 24 closer to the 40 acre limit established in the Concept of Management.
40	6129 - Mixed Coniferous Lowland Forest	Low Density Pole	11.8	74	1-50	Wet, poorly stocked conifer swamp with heavy brush understory.
41	42200 - Natural White Pine	High Density Pole	31.4	85	81-110	This stand was cut in 1998. The aspen and hardwoods were removed leaving the white and red pine. Nice natural stand of mixed size class pine.
43	6123 - Lowland Fir	High Density Pole	3.8	55	1-50	Wet depending on water level in stand 42.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
45	6117 - Lowland Deciduous, Mixed Coniferous	High Density Sapling	23.9	36	1-50	Portions of this stand are wet. This whole area is mottled with little tag alder pockets and undergrowth.
48	4134 - Aspen, Spruce/Fir	High Density Pole	94.8	36	51-80	Most of this stand was private at last inventory. Stand was cut back in late '70's while in private ownership. It looks as though it was cut in conjunction with adjoining state land. Appeared to have mostly just aspen cut at the time according to photos.
49	42320 - Upland Spruce	High Density Pole	8.7	35	51-80	Pocket of natural spruce.
50	4134 - Aspen, Spruce/Fir	High Density Pole	37.9	55	81-110	Semi-wet ground similar to stand 49 and 59. This stand was split from stand 99 in order to fall under the 40 acre limit that is in the Concept of Management.
51	42290 - Natural Mixed Pine	Medium Density Pole	11.1	80	1-50	Semi-open, sandy ridgeline that extends along low area that has been filling through the years with mixed conifers mostly pine.
52	6120 - Lowland Cedar	High Density Pole	4.3	89	81-110	Small pocket of cedar with small wet spot next to it.
53	4130 - Aspen	High Density Pole	41.0	55	81-110	Semi-wet ground. Ground water in this area seems to be pretty close to the surface and could impact future regeneration. Also, water levels in the swamp complex to the east could impact this stand. This is actually an extension of stand 59, but due to the acreage limits in the Concept of Management I will cut stand 59 this time because stand 51, directly across the Clute Road from this stand will also be cut. This stand will be treated next entry.
54	42330 - Upland Fir	High Density Pole	12.3	62	51-80	Area up against private. Aspen is sparse and not real quality wood.
55	42310 - Planted Spruce	High Density Pole	20.2	53	141-170	Fully stocked white spruce plantation.
57	6122 - Black Spruce	High Density Pole	10.4	90	51-80	Low spruce bog-type stand with white pine.
60	42311 - Planted Spruce, Mixed Deciduous	Medium Density Pole	9.1	53	51-80	White Spruce plantation that didn't take like stand 52. Some wet ground surrounding this stand.
61	4134 - Aspen, Spruce/Fir	High Density Pole	34.9	55	81-110	This stand is really an extension of stand 49, but seperated to fall within the clearcut acreage limits written into the Concept of Management.
62	4191 - Mixed Upland Deciduous with Conifer	Low Density Log	2.7	86		Semi-open ride jutting out into lowland brush area.
63	4134 - Aspen, Spruce/Fir	High Density Pole	21.7	55	81-110	Stand was split from stand 51 to bring 51's acreage down near or below 40 acres.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
64	429 - Mixed Upland Conifers	High Density Pole	20.3	85	51-80	Ridges and swales with pine on the ridges and spruce in the swales.
65	4130 - Aspen	High Density Sapling	14.1	34	1-50	
67	6121 - Tamarack	Low Density Pole	28.2	95		
68	42340 - Upland Spruce/Fir	High Density Pole	3.4	77	81-110	Small stand left out of last cut right in front of private cabin.
69	4130 - Aspen	High Density Sapling	6.6	33		Nice emerging pole stand.
72	4134 - Aspen, Spruce/Fir	High Density Sapling	33.2	26		
75	6128 - Lowland Coniferous, Mixed Deciduous	Medium Density Log	6.5	79	1-50	Wet, poor quality swamp transitioning from shrub swamp to higher ground
76	6120 - Lowland Cedar	High Density Pole	155.9	75	51-80	Wet, poor quality and somewhat young stand. It appeared to be cut back in the 30's. Small diameters throughout the stand.
77	6120 - Lowland Cedar	High Density Pole	86.6	90	51-80	Wet, underdeveloped swamp appears to have been cut back in the 20's
82	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	3.5	76	51-80	Small maple/birch stand surrounded by aspen cuttings would work well as retention stand.
84	4130 - Aspen	High Density Sapling	29.0	33		
85	4130 - Aspen	High Density Sapling	47.9	26		
86	4130 - Aspen	High Density Sapling	11.6	26		
87	6111 - Lowland Balsam Poplar	Low Density Sapling	3.0	4		Cedar clearcut not regenerating well yet. Water levels are higher after the cut. Balm is starting to come in .
88	6119 - Mixed Lowland Deciduous Forest	Low Density Pole	12.4	84	1-50	Transition area between marsh and cedar swamp.
90	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	20.4	84	81-110	
91	6120 - Lowland Cedar	High Density Pole	32.3	111	111-140	

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Pigeon River Country Mgt. Unit

## Report 8 – Forested Stands

Compartment: 023  
Year of Entry: 2016

	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
92	4130 - Aspen	Medium Density	6.7	16		Some browse damage and spotty regeneration.
93	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	2.2	91	51-80	Small island in "Marsh 16"
94	6112 - Lowland Aspen	High Density Sapling	4.0	33		Aspen regeneration in cedar dominated swamp.
95	4311 - Pine, Aspen Mix	High Density Log	2.6	91	51-80	Small island in "Marsh 16"
99	4139 - Aspen, Mixed Deciduous	High Density Pole	34.6	46	51-80	Long stretch of Aspen/hardwood along Centerline Road for about a half mile. With all the other aspen being cut in this compartment, this stand will do well to wait one more cutting period.
100	6120 - Lowland Cedar	High Density Pole	5.2	88	81-110	Corner of a small swamp tucked up against private 40.
101	42200 - Natural White Pine	High Density Log	6.1	117	81-110	Stand was thinned in 1991 with stand to the east and will likely be treated in the future that way.



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
5	3105 - Mixed Upland Herbaceous	4.9	No	Unspecified	Stand is filling with white pine, balsam fir, balsam poplar and quaking aspen.
8	3105 - Mixed Upland Herbaceous	1.4	No	Unspecified	Filling in with white pine, balsam fir and balsam poplar.
10	6239 - Mixed Emergent Wetland	12.7	No	Unspecified	Beaver flooding along Peck Creek. Varied wetland species mix influenced by beaver activity.
12	3105 - Mixed Upland Herbaceous	5.1	No	Unspecified	Some encroachment by white pine, balsam poplar and tag alder.
20	3102 - Grass	7.2	Yes	Medium	Wildlife opening maintained on a regular basis
29	3105 - Mixed Upland Herbaceous	1.3	No	Unspecified	Small opening with old homestead foundation.
30	3105 - Mixed Upland Herbaceous	1.4	No	Unspecified	This area and the NW of stand 32 was the location of an old schoolhouse. There is still old foundations located here. There is still a one acre piece here that is privately owned.
32	6239 - Mixed Emergent Wetland	6.5	No	Unspecified	Old beaver marsh, but water is presently drained out.
33	6220 - Alder/willow	5.7	No	Unspecified	NW part of stand contains 1 acre private parcel which has foundation for old school located in it.
34	6220 - Alder/willow	5.0	No	Unspecified	South end of a wildlife opening that hasn't been maintained and has grown back to alder.
36	6220 - Alder/willow	1.1	No	Unspecified	
42	3102 - Grass	5.1	Yes	Medium	Managed wildlife opening with grass that has been mowed and fertilized.
44	6223 - Inundated Shrub Swamp	42.1	No	Unspecified	
46	6220 - Alder/willow	30.8	No	Unspecified	
47	3105 - Mixed Upland Herbaceous	5.1	No	Unspecified	Natural opening with encroaching conifer trees.
56	3303 - Mixed Low Density Trees	23.1	No	Unspecified	Old field that is filling in with alder and saplings/seedlings of various species such as balsam poplar, white spruce and white pine.



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
58	6229 - Mixed lowland shrub	4.2	No	Unspecified	
59	6220 - Alder/willow	1.3	No	Unspecified	
66	6223 - Inundated Shrub Swamp	94.8	No	Unspecified	Wet throughout the year.
70	6225 - Bog	5.6	No	Unspecified	Edges of the bog are surrounded by heavier spruce.
71	3105 - Mixed Upland Herbaceous	1.7	No	Unspecified	
73	6220 - Alder/willow	1.6	No	Unspecified	
74	6220 - Alder/willow	3.0	No	Unspecified	
78	6220 - Alder/willow	9.1	No	Unspecified	
79	3105 - Mixed Upland Herbaceous	1.7	No	Unspecified	
80	3105 - Mixed Upland Herbaceous	2.3	No	Unspecified	
81	6220 - Alder/willow	3.5	No	Unspecified	Pocket of tag alder inside cedar swamp.
83	6220 - Alder/willow	2.2	No	Unspecified	
89	3105 - Mixed Upland Herbaceous	8.3	No	Unspecified	
96	6223 - Inundated Shrub Swamp	42.9	No	Unspecified	Water levels controlled by beavers. Some years are more active than others.
97	3105 - Mixed Upland Herbaceous	1.4	No	Unspecified	
98	3302 - Low Density Conifer Trees	11.9	No	Unspecified	