PIGEON RIVER COUNTRY MANAGEMENT UNIT
COMPARTMENT REVIEW PRESENTATION

COMPARTMENT 3 ENTRY YEAR: 2014

Compartment Acreage: 1901 County: Cheboygan

Review Date:
August 22, 2012

Stand Examiner:
Rick McDonald

Legal Description:
T34 - R01W sections 21, 28 & 33

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.

Ownership Patterns, Development, and Land Use in and Around the Compartment:
Solid state ownership throughout the compartment, but is adjacent to private land to the north.

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:
Headwaters of the McIntosh Creek begin in this compartment which is a tributary to the Pigeon River. The Pigeon River is designated a Natural River.

Wildlife Habitat Considerations:
Please refer to Wildlife Biologist's comments.

Mineral Resource and Development Concerns and/or Restrictions:
Sections 21, 28 and 33, T34N-R1W, Cheboygan County
Surface sediments consist of coarse-textured glacial till and glacial outwash sand and gravel and postglacial alluvium. The glacial drift thickness varies between 10 and 200 feet. Beneath the glacial drift is the Devonian Antrim Shale and Traverse Group, quarried for clay/shale, cement products and stone elsewhere in the State. Limestone quarries are located four miles to the northwest. The nearest gravel pit is four miles to the northeast, and there should be some potential on the upland areas. This area was previously leased for oil and gas development. The Antrim Shale subcrops in this area 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 section 33 and a small portion of the Horse trail comes in and out of section 21.

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:

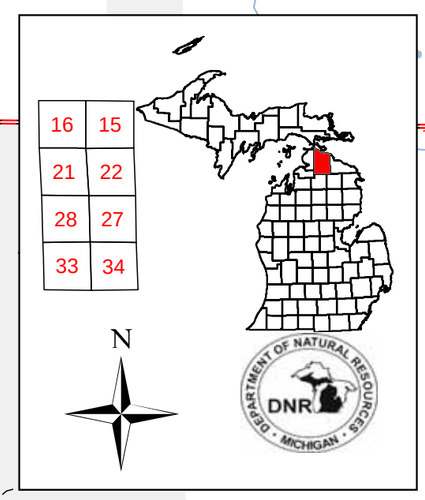
- **The following reports from IFMAP are attached:**
  - **Cover Type by Age Class**
  - **Cover Type by Management Objective**
  - **Compartment Volume Summary**
  - **Proposed Treatments – No Limiting Factors**
  - **Proposed Treatments – With Limiting Factors**

- **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**

Cover Type & Treatment Map

Compartment: 003
T34N R01W Sec. 15, 16, 21, 22, 27, 28, 33, 34
County: Cheboygan
Unit: Pigeon River Country
YOE: 2014
Acres: 1,901 GIS Calculated
Examiner: Richard McDonald
Map Revised: 06/25/2012
Map Phase: Pre-Review

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



Legend

- Remonumented Section Corners
- Miris Corners
- Paved Roads
- County Gravel Roads
- Poor Dirt Roads
- County Poor Dirt Roads
- Closed Roads
- Railroads
- Stream
- Intermittent Stream
- Bike Trails
- Hiking Trails
- Horse Trails
- Ski Trails
- Bike Trail
- Horse Trail
- Ski Trail
- Hiking Trail
- State Forest Land
- Lakes and Rivers

Regen Legend
- Natural

Treatments
- Clearcut (w/Reserves, Patch/Strip)
- 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

1 622-L0 | 2 4130-A3 | 3 6120-C6 | 4 4130-A6 | 5 4130-A6 | 6 4234-F3 | 7 4134-A3 | 8 6124-Q6 | 9 4112-M6 | 10 330-U0 | 11 500-Z0 | 12 6124-Q6 | 13 622-V0 | 14 6119-E6 | 15 4191-MD6 | 16 310-G0 | 17 6115-E5 | 18 4133-A4 | 19 6124-Q6 | 20 310-G0 | 21 4319-UM5 | 22 4319-UM5 | 23 629-L0 | 24 4211-R6 | 25 330-U0 | 26 6128-Q6 | 27 6120-C6 | 28 330-U0 | 29 4130-A3 | 30 4235-H6 | 31 330-U0 | 32 4130-A6 | 33 6122-S6 | 34 310-G0 | 35 6128-Q9 | 36 310-G0 | 37 4130-A6 | 38 4134-A3 | 39 6122-S5 | 40 6120-C6 | 41 4133-A6 | 42 4136-A3 | 43 330-U0 | 44 629-L0 | 45 310-G0 | 46 6122-S6 | 47 6124-Q6 | 48 4130-A6 | 49 6132-LM6 | 50 6124-Q6 | 51 330-UU | 52 4222-J6 | 53 4229-MC8 | 54 4235-H3 | 55 4130-A3 | 56 4130-A3 | 57 4221-R9 | 58 4229-MC8 | 59 4226-MC6 | 60 622-L0 | 61 6117-E6 | 62 330-U0 | 63 6122-S6 | 64 6120-C6 | 65 622-D0 | 66 6120-C6 | 67 4130-A3 | 68 6124-Q6 | 69 6119-E6 | 70 4226-MC9 | 71 4226-MC9 | 72 4136-A3 | 73 500-Z0 | 74 4130-A3 | 75 4319-UM3 | 76 4229-MC8 | 77 6132-LM5 | 78 6122-S6 | 79 629-L0 | 80 4136-A3 | 81 629-L0 | 82 4239-MC9 | 83 4220-W9 | 84 4119-M6 | 85 4136-A2 | 86 4139-A6 | 87 4130-A3 | 88 4110-M6 | 89 4116-M6 | 90 310-G0

Lake Sixteen | McIntosh Creek | Lost Lake | Dog Lake

Walker Rd | Webber Rd | Duby Lake Rd | Dog Lake Rd | Webb Rd
Rd. 1 | Rd. 2 | Rd. 3 | Rd. 4 | Rd. 12 | Rd. 13 | Rd. 14 | Rd. 15 | Rd. 16 | Rd. 17 | Rd. 102 | Rd. 103

1 0.5 0 1 Miles

84°28'0"W | 84°27'0"W | 84°26'0"W | 84°25'0"W | 84°24'0"W
45°20'0"N | 45°19'0"N | 45°18'0"N | 45°17'0"N

Stand Boundary Map

Compartment: 003
T34N R01W Sec. 15, 16, 21, 22, 27, 28, 33, 34
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Unit: Pigeon River Country
YOE: 2014
Acres: 1,901 GIS Calculated
Examiner: Richard McDonald
Map Revised: 06/25/2012
Map Phase: Pre-Review

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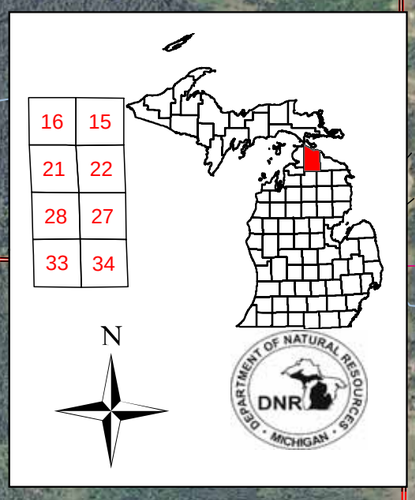
(412)0) - A7
Level 3 Level 4 — OI Code
Cover Type Code



Legend
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- Paved Roads
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Non-Forest Stands
- Level 3
  - 310 - Herbaceous Openland
  - 330 - Low-Density Trees
  - 500 - Water
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16 15 21 22 28 27 33 34

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Lost Lake Dog Lake Johnson Creek

1 0.5 0 1 Miles

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45°21'0"N 45°20'0"N 45°19'0"N 45°18'0"N 45°17'0"N

dicated & Proposed Special Conservation Area Map

Compartment: 003
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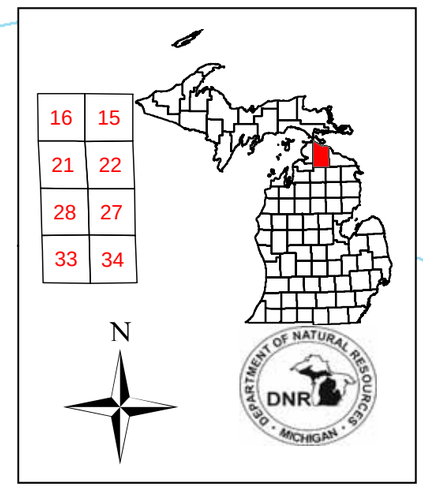

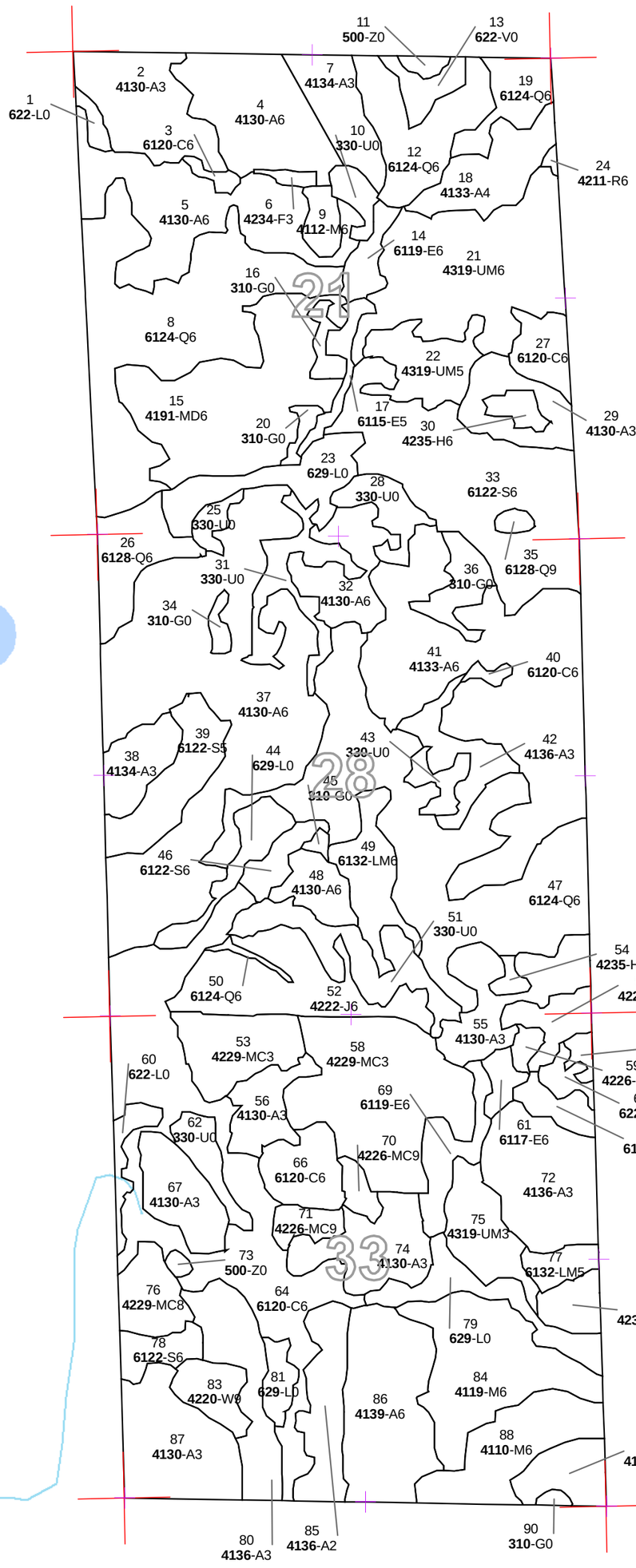

Legend

- Remonumented Section Corners
- Miris Corners
- Stand Boundaries

Dedicated Special Conservation Areas

- Cold Water Streams
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- Non_Dedicated Natural Areas and National Natural Landmarks
- Wildlife Management Areas

Forest Stands

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45°20'0"N 45°19'0"N 45°18'0"N 45°17'0"N

1 0.5 0 1 Miles

Table 1 – Total Acres by Cover Type and Age Class

eon River Country Mgt. Unit **Compartment 003 Year of Entry 2014**

Richard McDonald : Examiner

Age Class

	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	Total
Aspen	0	25	263	0	427	0	0	0	0	0	0	0	0	0	**714**
Bog	7	0	0	0	0	0	0	0	0	0	0	0	0	0	**7**
Cedar	0	0	0	0	0	0	0	10	4	15	94	0	0	0	**123**
Hemlock	0	0	0	0	0	0	0	0	4	0	0	0	0	2	**7**
Herbaceous Openland	22	0	0	0	0	0	0	0	0	0	0	0	0	0	**22**
Jack Pine	0	0	0	0	37	0	0	0	0	0	0	0	0	0	**37**
Low-Density Trees	76	0	0	0	0	0	0	0	0	0	0	0	0	0	**76**
Lowland Conifers	0	0	0	0	2	0	0	130	7	0	13	0	0	118	**270**
Lowland Deciduous	0	0	0	0	14	0	18	0	0	0	0	0	0	0	**32**
Lowland Mixed Forest	0	0	0	0	0	0	0	18	7	0	0	0	0	0	**25**
Lowland Shrub	65	0	0	0	0	0	0	0	0	0	0	0	0	0	**65**
Lowland Spruce/Fir	0	0	0	0	0	0	0	29	79	8	0	0	0	0	**116**
Mixed Upland Deciduous	0	0	0	0	63	0	0	0	0	0	0	0	0	0	**63**
Natural Mixed Pines	0	0	60	0	3	0	0	0	0	11	0	0	35	0	**109**
Northern Hardwood	0	0	0	0	64	0	0	0	29	0	0	0	0	0	**93**
Red Pine	0	0	0	0	1	0	0	0	10	0	0	0	0	0	**11**
Treed Bog	4	0	0	0	0	0	0	0	0	0	0	0	0	0	**4**
Upland Conifers	0	0	0	0	0	0	0	0	0	0	0	0	8	0	**8**
Upland Mixed Forest	0	0	0	0	102	0	0	0	0	0	0	0	0	0	**102**
Upland Spruce/Fir	0	0	2	0	0	0	0	0	0	0	0	0	0	0	**2**
Water	4	0	0	0	0	0	0	0	0	0	0	0	0	0	**4**
White Pine	0	0	0	0	0	0	0	0	10	0	0	0	0	0	**10**
Total	**178**	**25**	**325**	**0**	**712**	**0**	**18**	**188**	**150**	**34**	**107**	**0**	**44**	**120**	**1901**

Table 2 – Proposed Treatment Summaries

eon River Country Mgt. Unit
Year of Entry 2014

Compartment 003
Total Compartment Acres: 1901

Acres by Treatment Type

Commercial Harvest - 159	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

	Clearcut	Selection	Seed Tree	Shelterwood	Thinning	Other - Specify	Total Acres
Aspen	90	0	0	0	0	0	**90**
Mixed Upland Deciduous	31	0	0	0	0	0	**31**
Northern Hardwood	0	29	0	0	0	0	**29**
Red Pine	0	10	0	0	0	0	**10**
Total	**120**	**39**	**0**	**0**	**0**	**0**	**159**

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
4	53003004-Cut	37.3	4130 - Aspen	High Density Pole	46	81-110	Harvest	Clearcut with Reserves	4130 - Aspen	Cmpt. Review Proposal

Prescription Specs: Maintain Aspen type with a final harvest. Retention guidelines should be applied with possibily 2-4 uncut islands and/or a few individual trees of representative species left.

Other Comments: Nice young pole stand. More advanced than some other adjacent stands.

Next Steps:

Proposed Start Date: 10/01/2013

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
15	53003015_small-Cut	30.8	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	46	81-110	Harvest	Clearcut with Reserves	4191 - Mixed Upland Deciduous with Conifer	Cmpt. Review Proposal

Prescription Specs: The east half of the stand is of interest because of its size. The overall stand is well over 40 acres so I recommend cutting the east half in order to stay under that threshold.

Other Comments: Size class varies throughout stand. Very wet in spots

Next Steps:

Proposed Start Date: 10/01/2013

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
37	53003037_small-Cut	52.3	4130 - Aspen	High Density Pole	46	81-110	Harvest	Clearcut with Reserves	4130 - Aspen	Cmpt. Review Proposal

Prescription Specs: Leave 2-3 uncut islands for retention purposes.

Other Comments: Fairly nice stand of nearly pure Aspen. Area of Interest lies north of the trail road.

Next Steps: Monitor for any impacts of browsing of the Aspen regeneration. Successful regeneration of Aspen is expected, but a mixture of species will be acceptable as a measure of success.

Proposed Start Date: 10/01/2013

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
57	53003057-Cut	10.1	42210 - Natural Red Pine	High Density Log	83	81-110	Harvest	Group Selection	42210 - Natural Red Pine	Cmpt. Review Proposal

Prescription Specs: Recommend additional thinning and group selection to create some larger regeneration gaps to try and encourage Red PIne to regenerate.

Other Comments: Nice stand of Red PIne that was thinned in 2000. This stand extends into comp. 4 and will incorporate that portion of the stand as well.

Next Steps: Return in 5 years with regeneration survey to see how Red Pine is responding. More than likely there will be a mix of species like White Pine, Balsam Fir, Red Maple and Red Pine. That would be acceptable.

Proposed Start Date: 10/01/2013

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
88	53003088-Cut	28.5	4110 - Sugar Maple Association	High Density Pole	86	111-140	Harvest	Single Tree Selection	4110 - Sugar Maple Association	Cmpt. Review Proposal

Prescription Specs: Selection cut recommended. Best tree in place and take some mature trees and create some larger (60-100') openings to promote regeneration in those gaps. Aggressively mark White Ash to remove to mitigate the effects of EAB, as well as, Beech to slow the spread of BBD.

Other Comments:

Next Steps:

Proposed Start Date: 10/01/2013

Total Treatment Acreage Proposed: 159.0

Table 4 -- Treatments Prescribed with a Limiting Factor

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

Prescription Specs: -Moderate intensity burn to reduce encroaching woody vegetation, mainly black cherry.

Other Comments:

Next Steps:

Proposed Start Date: Unspecified

Total Treatment Acreage Proposed: **18.2**

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
2	4130 - Aspen	High Density Sapling	30.6	22		
3	6120 - Lowland Cedar	High Density Pole	2.3	85	81-110	Small isolated stand left when adjacent stand 2 was clearcut. Good wildlife cover.
4	4130 - Aspen	High Density Pole	37.3	46	81-110	Nice young pole stand. More advanced than some other adjacent stands.
5	4130 - Aspen	High Density Pole	50.5	46	51-80	Different character from stand 4. Lower, wetter ground with more conifer component and shrub understory.
6	42340 - Upland Spruce/Fir	High Density Sapling	1.9	22		Small opening probably used as a landing for a nearby timber sale has been filling in over the past 20 years.
7	4134 - Aspen, Spruce/Fir	High Density Sapling	17.7	23		
8	6124 - Lowland Spruce-Fir	High Density Pole	87.2	Uneven Age	51-80	Fairly wet stand with poor growth. Good wildlife cover and good winter activity.
9	4112 - Maple, Beech, Cherry Association	High Density Pole	6.1	45	51-80	Young hardwood stand not ready for treatment.
12	6124 - Lowland Spruce-Fir	High Density Pole	28.5	Uneven Age	1-50	Poor conifer swamp surrounding bog.
14	6119 - Mixed Lowland Deciduous Forest	High Density Pole	7.3	46	1-50	Low area at top end of drainage.
15	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	62.8	46	81-110	Size class varies throughout stand. Very wet in spots
17	6115 - Lowland Ash	Medium Density Pole	6.5	46		Wet drainage into creek to the south.
18	4133 - Aspen, Mixed Pine	Low Density Pole	21.1	46	1-50	Scattered trees in opening. Some clones of Aspen, maple, mixed pine and spruce.
19	6124 - Lowland Spruce-Fir	High Density Pole	13.4	106	51-80	Relatively small swamp bordering treed bog
21	4319 - Mixed Upland Forest	High Density Pole	65.3	46	51-80	Heavy mix of species. Varying ground moisture levels. This stand should be ready next entry period.
22	4319 - Mixed Upland Forest	Medium Density Pole	18.5	46	1-50	Poor site upland. Clumps of Aspen, Fir, Red Maple and White Pine.
24	42110 - Planted Red Pine	High Density Pole	0.8	44	81-110	Small portion of RP plantation in Comp. 4. Not real good site quality for this red pine.

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
26	6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	19.4	75	51-80	
27	6120 - Lowland Cedar	High Density Pole	10.5	78	51-80	Poor quality swamp bordering on bog
29	4130 - Aspen	High Density Sapling	16.0	22		Good regeneration. Wet in spots.
30	42350 - Upland Hemlock	High Density Pole	4.5	82	81-110	Hemlock island in the middle of stand 29 that was not cut when stand 29 was cut.
32	4130 - Aspen	High Density Pole	20.0	46	51-80	Different character than the surrounding aspen stands. Seems to be more wet with a different composition of understory brush. It lies at the head of a drainage that drains into McIntosh Creek. Size varies somewhat but a little on the small side.
33	6122 - Black Spruce	High Density Pole	76.6	84	81-110	Low quality swamp, very wet with lots of underbrush
35	6128 - Lowland Coniferous, Mixed Deciduous	High Density Log	2.1	Uneven Age	81-110	Small Pine/Hemlock island in the middle of a poor quality spruce swamp. Stand is very wet all around it.
37	4130 - Aspen	High Density Pole	134.9	46	81-110	Fairly nice stand of nearly pure Aspen.
38	4134 - Aspen, Spruce/Fir	High Density Sapling	13.6	27		
39	6122 - Black Spruce	Medium Density Pole	21.5	76	51-80	Fairly wet stand with heavy underbrush. Somewhat sparse, not heavy stocking -- poor swamp
40	6120 - Lowland Cedar	High Density Pole	1.7	88	51-80	Small pocket of a little higher ground cedar at the head of a drainage into a larger swamp.
41	4133 - Aspen, Mixed Pine	High Density Pole	108.9	46	51-80	Young pole aspen mixed with pine. Pine component varies throughout the stand. The south arm of the stand has a little higher percentage of pine, spruce and fir.
42	4136 - Aspen, Mixed Conifer	High Density Sapling	14.2	27		Good mix of species.
46	6122 - Black Spruce	High Density Pole	7.2	76	81-110	Strip of spruce along creek bottom with mature pine.
47	6124 - Lowland Spruce-Fir	High Density Pole	110.8	76	81-110	
48	4130 - Aspen	High Density Pole	10.7	45	1-50	

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
49	6132 - Mixed Lowland Forest with Cedar	High Density Pole	18.3	76	81-110	Wet swamp hardwoods with mixed softwood
50	6124 - Lowland Spruce-Fir	High Density Pole	1.5	45	81-110	Small drainage through Jack Pine stand
52	42220 - Natural Jack Pine	High Density Pole	36.8	45	51-80	Small pole Jack Pine stand. Not ready for any management.
53	42290 - Natural Mixed Pine	Medium Density Log	21.7	130	1-50	Stand had species removal in 1988. Good mix of pine.
54	42350 - Upland Hemlock	High Density Sapling	2.4	Uneven Age	51-80	Small pocket of Hemlock that was not cut as part of a larger clearcut in 1985.
55	4130 - Aspen	High Density Sapling	25.2	27		Good regeneration. Some residual cedar on the east end.
56	4130 - Aspen	High Density Sapling	13.3	24		
57	42210 - Natural Red Pine	High Density Log	10.1	83	81-110	Nice stand of Red PIne that was thinned in 2000. This stand extends into comp. 4 and will incorporate that portion of the stand as well.
58	42290 - Natural Mixed Pine	High Density Sapling	60.3	24		
59	42260 - Natural Pine, Mixed Deciduous	High Density Pole	2.9	44	51-80	High Country Pathway passes through stand.
61	6117 - Lowland Deciduous, Mixed Coniferous	High Density Pole	4.9	64		Poor quality wet stand along the edge of a drainage.
63	6122 - Black Spruce	High Density Pole	2.7	84	51-80	Spruce bog characteristics - small stand
64	6120 - Lowland Cedar	High Density Pole	93.6	107	81-110	Creek flows through stand and has periodically flooded the stand causing some mortality.
66	6120 - Lowland Cedar	High Density Pole	15.2	94	171-200	Nice cedar stand, but there are quite a few springs bubbling up and running through the adjacent swamp feeding McIntosh Creek. This area should be protected.
67	4130 - Aspen	High Density Sapling	18.1	23		Beaver activity in the swamp along the eastside has had an impact on the aspen regeneration.
68	6124 - Lowland Spruce-Fir	High Density Pole	7.2	84	51-80	Wet ground with quite a bit of blowdown.
69	6119 - Mixed Lowland Deciduous Forest	High Density Pole	13.2	64	51-80	Wet lowland hardwood

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
70	42260 - Natural Pine, Mixed Deciduous	High Density Log	4.4	96	171-200	This stand has been left uncut to provide some age/size class diversity within the compartment.
71	42260 - Natural Pine, Mixed Deciduous	High Density Log	6.1	96	111-140	This stand has been left for some age/size class diversity within the compartment.
72	4136 - Aspen, Mixed Conifer	High Density Sapling	36.0	24		Scattered cedar left after stand was cut. Regeneration is spotty due to wet areas throughout the stand.
74	4130 - Aspen	High Density Sapling	23.5	26		
75	4319 - Mixed Upland Forest	High Density Sapling	18.4	46	51-80	Winter deer feeding cut back in the '60's. Aspen near beaver flooding (std. 8) has been removed by beavers over the years.
76	42290 - Natural Mixed Pine	Medium Density Log	13.6	122	51-80	Stand was thinned in 1998. All species cut except Red and White Pine and some White Spruce.
77	6132 - Mixed Lowland Forest with Cedar	Medium Density Pole	6.6	84	1-50	Wet stand with cattails and marsh grass throughout much of it. A lot of trees have died out or our in poor shape.
78	6122 - Black Spruce	High Density Pole	8.2	92	81-110	Very wet spruce stand
80	4136 - Aspen, Mixed Conifer	High Density Sapling	24.5	14		Some residual white pine and white spruce scattered throughout.
82	42390 - Mixed Non-Pine Upland Conifers	High Density Log	8.5	127	111-140	Travel influence. Transition area between upland hardwood and lowland swamp. This stand has heavier cedar component than white pine.
83	42200 - Natural White Pine	High Density Log	10.4	88	51-80	This stand had all species removed but pine in 1998.
84	4119 - Mixed Northern Hardwoods	High Density Pole	45.3	46	51-80	
85	4136 - Aspen, Mixed Conifer	Medium Density	21.5	22		Browsing has definitely had an impact on regen. success in aspen. Good birch component.
86	4139 - Aspen, Mixed Deciduous	High Density Pole	43.9	46	81-110	High Country Pathway runs through the entire length of the stand. Some pockets of Hemlock.
87	4130 - Aspen	High Density Sapling	32.8	23		
88	4110 - Sugar Maple Association	High Density Pole	28.5	86	111-140	
89	4116 - Mixed N. Hardwood - Aspen	High Density Pole	12.7	46	51-80	

Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
1	6220 - Alder/willow	2.8	No	Unspecified	Low, wet depression full of lowland brush
10	3302 - Low Density Conifer Trees	5.5	No	Unspecified	Natural grassy opening with scattered conifers
11	50 - Water	2.2	No	Unspecified	Lake Sixteen
13	6225 - Bog	7.3	No	Unspecified	Bog along south edge of Lake Sixteen
16	3105 - Mixed Upland Herbaceous	4.3	No	Unspecified	Natural opening
20	3105 - Mixed Upland Herbaceous	2.6	No	Unspecified	Natural opening with some scattered trees.
23	629 - Mixed non-forested wetland	20.9	No	Unspecified	Old beaver marsh after water has been drained for a few years. It is being gradually reclaimed by young trees on the north end.
25	3303 - Mixed Low Density Trees	4.1	No	Unspecified	
28	3303 - Mixed Low Density Trees	10.7	No	Unspecified	
31	3303 - Mixed Low Density Trees	17.4	No	Unspecified	Opening gap in the aspen. Some scattered aspen, fir, and white pine. A few old pine stumps from early logging.
34	3105 - Mixed Upland Herbaceous	2.5	No	Unspecified	Scattered aspen, white pine, fir and red maple
36	3105 - Mixed Upland Herbaceous	10.3	No	Unspecified	
43	3302 - Low Density Conifer Trees	5.9	No	Unspecified	Small, high spot on the edge of the swamp. Semi-open with fir, red and white pine scattered.
44	629 - Mixed non-forested wetland	11.8	No	Unspecified	Beaver marsh - empty at present time. Upper end of McIntosh Creek.
45	3105 - Mixed Upland Herbaceous	1.3	No	Unspecified	Isolated natural opening.
51	3303 - Mixed Low Density Trees	23.6	Natural Regen	Jack Pine	This stand was cut in 2007. A mix of Jack Pine and Q. Aspen is regenerating well.
60	6229 - Mixed lowland shrub	5.8	No	Unspecified	

Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
62	3303 - Mixed Low Density Trees	8.5	No	Unspecified	Area of dead timber due to beaver flooding over the past 10 years or so.
65	6224 - Treed Bog	4.5	No	Unspecified	Scattered White Pine in a Leatherleaf bog
73	50 - Water	1.3	No	Unspecified	Small pond
79	629 - Mixed non-forested wetland	17.5	No	Unspecified	A mixed lowland type along a creek bottom that eventually flows into McIntosh Creek. A mix lowland shrub and emergent vegetation being controlled and determined by water levels that fluctuate due to beaver activity.
81	629 - Mixed non-forested wetland	6.0	No	Unspecified	Area of cedar, ect. that has been killed from high water due to several years of beavers actively working the area along the creek.
90	3105 - Mixed Upland Herbaceous	1.2	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.
HCVA	Natural Rivers	There are two Natural Rivers datasets which are derived from spatial buffers set from an established and approved distance from the river centerlines. The Natural Rivers Zoning District is a 400 foot buffer for most Natural Rivers. The Vegetative Buffer ranges from 25 to 100 feet. To view specific Zoning Districts and Vegetative Buffers for each Natural River see the table located on the I:\Documentation\GDSE data folder.