ATLANTA FOREST MANAGEMENT UNIT
COMPARTMENT REVIEW PRESENTATION

COMPARTMENT # 93 ENTRY YEAR: 2012

Compartment Acreage: 937 County: Alpena

Revision Date: October 26, 2010

Stand Examiner: Cody Stevens

Legal Description: T30N R08E Sec 32, 33 & 34

RMU (if applicable): Alpena Lake Plain

Management Goals:
The main goal in this compartment is to conduct multiple resource management for the good of the citizens of the State of Michigan.

Soil and Topography:
The topography of the compartment is low wet ground with some high ground ridges and the dominate cover types are cedar, spruce and tamarack in the low ground and oak, aspen and pine on the higher ground.

Ownership Patterns, Development, and Land Use in and Around the Compartment:
The compartment has some private parcels scattered throughout on the boundary. The compartment has some recreational use by ORVs & snowmobiles on the higher ground.

Unique, Natural Features:
Some species are present in and around the compartment.

Archeological, Historical, and Cultural Features.
None known at this time.

Special Management Designations or Considerations:
Devils Lake Recreation Plan covers this area.

Watershed and Fisheries Considerations:
Fisheries Concerns:

Wildlife Habitat Considerations:
This compartment contains the southern portion of Devil's Lake, which provides important habitat for migrating and breeding waterfowl. The adjacent uplands are important stopover sites for migratory songbirds. Much of the compartment is dominated by cedar, spruce and tamarack swamp with aspen and oak found on uplands. Game species likely to be present in this compartment include white-tailed deer, black bear, coyote, red fox, bobcat, ruffed grouse, American woodcock, beaver, snowshoe hare, and several waterfowl species. Additional species with potential to be present include northern saw-whet owl, common raven, northern short-tailed shrew, long-tailed weasel, deer mouse, black-capped chickadee, red-breasted nuthatch, downy woodpecker, northern brown snake, and broad-winged hawk.

Mineral Resource and Development Concerns and/or Restrictions:
Surface sediments consist of lacustrine (lake) sand and gravel. The glacial drift thickness varies between 10 and 50 feet. Beneath the glacial drift is the Devonian Antrim Shale. There is no known economic use for the Antrim Shale. The nearest gravel pit is located in the NE of Section 34, but potential is considered limited. This area has had limited drilling. The Antrim Shale is pinching out in this area. The State land in west half of Section 32 is leased for oil & gas exploration.

Vehicle Access:
This compartment is accessed from Piper Road on the east portion. The western portion of the compartment is accessed from Devils Lake Rd. There are limited two tracks for traversing the area.

Survey Needs:
None needed at this time.

Recreational Facilities and Opportunities:
There are many opportunities for hunting, fishing and wildlife viewing in the area. The Devils Lake Snowmobile Trail is just north of the compartment on the west side of Devils Lake. The Devils Lake ORV Trial is on the east side of Devils lake.

Fire Protection:
Fire response to the compartment will be covered by the Alpena DNR office as well as the Alpena Township Fire Department.

Additional Compartment Information:

- **The following 5 reports from the Operations Inventory System (OIPC) 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**
  - **Proposed treatments**
  - **Proposed road access system**
  - **Suggested potential old growth**

Cover Type & Treatment Map

Compartment 93
T30N, R08E, Sec. 32, 33 & 34
County: Alpena
Unit: Atlanta
YOE: 2012
Acres: 937 GIS Calculated
Stand Examiner: Cody Stevens
Map Revised: 8/17/2010
Map Phase: Pre-Review

Legend

- Miris Corners
- Highway
- Paved Roads
- Poor Dirt Roads
- Railroads
- Pipe
- Power
- Intermittent Stream/Drain
- Stream
- Lakes and Rivers
- Clearcut (w/Reserves, Patch/Strip)

Forest Stands

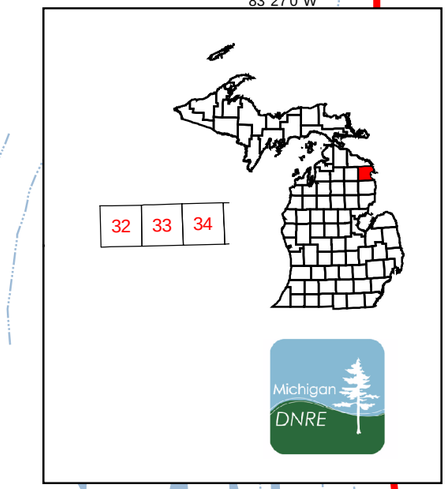
Level 3

- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen Types
- 422 - Natural Pines
- 431 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest

Non-Forest Stands

Level 3

- 122 - Road/Parking Lot
- 622 - Lowland Shrub



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

1 4130-A3
2 4131-A6
3 6117-E6
4 6120-C9
5 4130-A1
6 4221-R9
7 6112-P1
8 622-L0
9 4121-O9
10 6120-C9
11 6112-P3
12 6128-Q6
13 4131-A9
14 4139-A9
15 4311-UM6
16 4131-A9
17 6120-C9
18 6120-C9
19 4130-A3
20 6120-C9
21 4130-A6
22 6111-P8
23 4112-M9
24 4130-A6
25 4229-MC9
26 6120-C9
27 6112-P3
28 4222-J6
29 4222-J6
30 622-L0
31 622-L0
32 4222-J6
33 4319-UM9
34 6132-LM6
35 622-L0
36 622-L0
37 4130-A6
38 4123-O9
39 4225-MC9
40 4131-A9
41 622-L0
42 122-X0
43 6117-E1
44 4123-O9
45 6120-C9
46 6120-C5

Devils Lake
Devils River
Precore Creek
Cranberry Creek
Berlinski Creek
Piper Rd
Marek Rd
Timm Dr
Curtis Dr
Lake Trl

1 0.5 0 1 Miles

83°31'0"W 83°30'0"W 83°29'0"W 83°28'0"W 83°27'0"W
44°58'0"N 44°57'0"N

Stand Boundary Map

Compartment 93
T30N, R08E, Sec. 32, 33 & 34
County: Alpena
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Stand Examiner: Cody Stevens
Map Revised: 8/17/2010
Map Phase: Pre-Review

Legend

- Miris Corners
- Highway
- Paved Roads
- Poor Dirt Roads
- Railroads
- Pipe
- Power
- Intermittent Stream/Drain
- Stream
- Stand Boundaries

Forest Stands

Level 3

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Non-Forest Stands

Level 3

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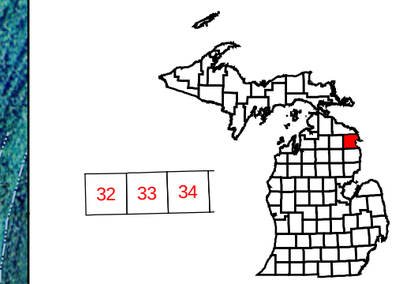

Michigan DNRE

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

1 Miles 0.5 0

Devils Lake Trl
Piper Rd
Marek Rd
Thorn Dr
83°31'0"W
83°30'0"W
83°29'0"W
83°28'0"W
83°27'0"W
44°58'0"N
44°57'0"N
44°57'0"N
44°56'0"N
32
33
34
1 4130-A3
2 4131-A6
3 6117-E6
4 6120-C9
5 4130-A1
6 4221-R9
7 6112-P3
8 622-L0
9 4121-O9
10 6120-C9
11 6112-P3
12 6128-Q6
13 4131-A9
14 4139-A9
15 4311-UM6
16 4131-A9
17 6120-C9
18 6120-C9
19 4130-A3
20 6120-C9
21 4130-A6
22 6111-P8
23 4112-M9
24 4130-A6
25 4229-MC9
26 6120-C9
27 6112-P3
28 4222-J6
29 4222-J6
30 622-L0
31 622-L0
32 4222-J6
33 4319-UM9
34 6132-LM6
35 622-L0
36 622-L0
37 4130-A6
38 4123-O9
39 4225-MC9
40 4131-A9
41 622-L0
42 122-X0
43 6117-E1
44 4123-O9
45 6120-C9
46 6120-C5

Dedicated & Proposed Special Conservation Area Map

Compartment 93
T30N, R08E, Sec. 32, 33 & 34
County: Alpena
Unit: Atlanta
YOE: 2012
Acres: 937 GIS Calculated
Stand Examiner: Cody Stevens
Map Revised: 8/17/2010
Map Phase: Pre-Review

Legend

- Miris Corners

Dedicated Special Conservation Area

- Cold Water Streams
- Ecological Reference Areas
- Stand Boundaries

Forest Stands

Level 3

- 411 - Northern Hardwood
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- 413 - Aspen Types
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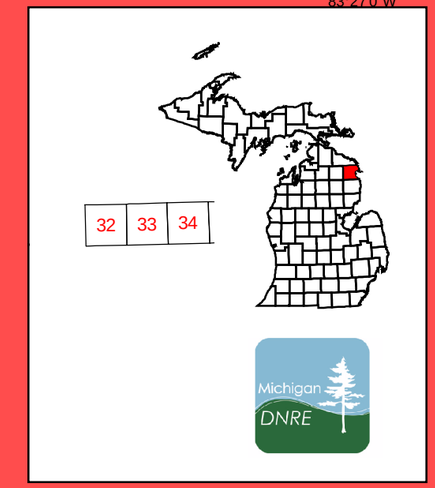

Stand # 23 — Stocking Density: (412)0) - A7 (Level 3 Level 4 OI Code) — Cover Type Code

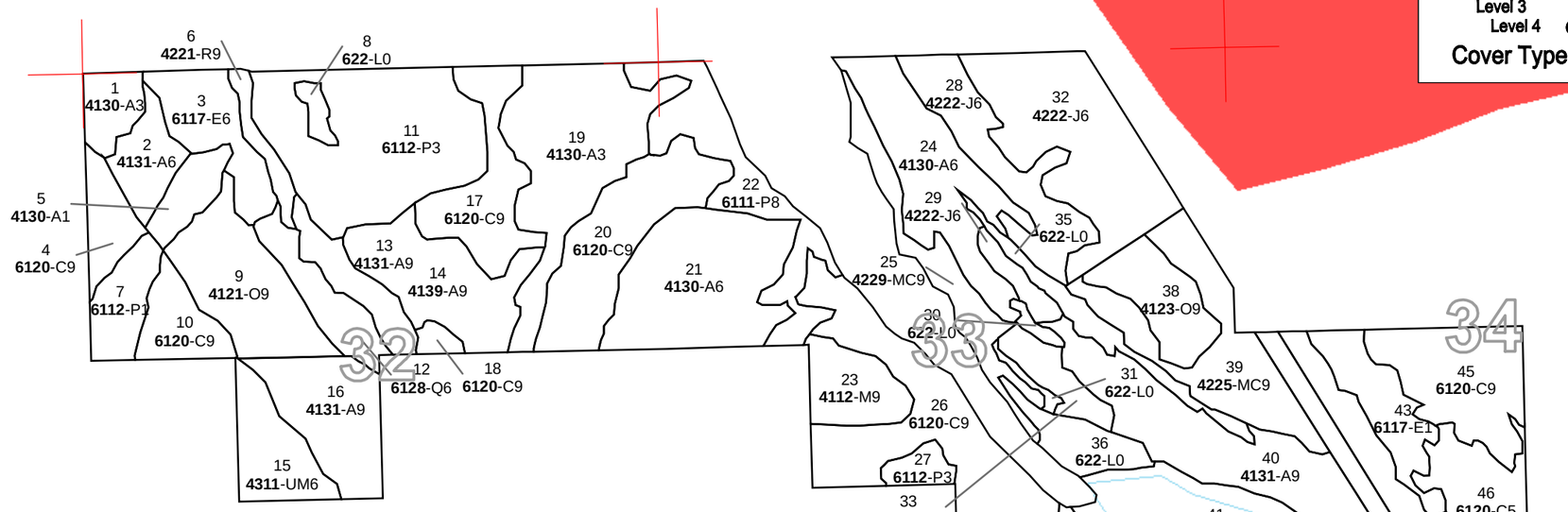

Table 1 – Total Acres by Cover Type and Age Class

Atlanta Mgt. Unit **Compartment 093 Year of Entry 2012**

Data updated before 2:00 PM

Age Class

	Non-Forested	1-9	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	8	8	85	12	33	0	0	0	117	0	0	0	0	0	**263**
Cedar	0	0	0	0	0	0	0	0	0	0	22	152	0	0	0	**174**
Jack Pine	0	0	0	0	0	71	0	0	5	0	0	0	0	0	0	**75**
Lowland Aspen/Balsam Poplar	0	16	55	0	0	0	0	0	0	27	0	0	0	0	0	**98**
Lowland Conifers	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	**12**
Lowland Deciduous	0	0	0	16	17	0	0	0	0	0	0	0	0	0	0	**33**
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	0	10	0	0	0	0	**10**
Lowland Shrub	98	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**98**
Natural Mixed Pines	0	0	0	0	0	0	0	0	18	31	0	0	0	0	0	**48**
Northern Hardwood	0	0	0	0	0	0	0	0	0	14	0	0	0	0	0	**14**
Oak	0	0	0	0	0	0	0	0	0	68	0	0	0	0	0	**68**
Red Pine	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	**5**
Upland Mixed Forest	0	0	0	0	0	0	0	0	0	9	16	0	0	0	0	**24**
Urban	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**12**
Total	**110**	**24**	**63**	**101**	**29**	**104**	**0**	**0**	**22**	**271**	**61**	**152**	**0**	**0**	**0**	**937**

Table 2 – Proposed Treatment Summaries

Data updated before 2:00 PM

Atlanta Mgt. Unit
Year of Entry 2012

Compartment 093
Total Compartment Acres: 936.6

Acres by Treatment Type

Commercial Harvest - 118	Site Prep - 0	Tree Planting - 0	Prescribed Burn - 0	Other - 0
Habitat Cut - 44	Opening Maintenance - 0	Tree Seeding - 0	Pesticide - 0	

Cover Type by Harvest Method

	Clearcut	Selection	Seed Tree	Shelterwood	Thinning	Other - Specify	Total Acres
Aspen	106	0	0	0	0	0	**106**
Natural Mixed Pines	31	0	0	0	0	0	**31**
Oak	16	0	0	0	0	0	**16**
Upland Mixed Forest	9	0	0	0	0	0	**9**
Total	**162**	**0**	**0**	**0**	**0**	**0**	**162**

Table 3 -- Treatments Prescribed with No Limiting Factor

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
13	93013-C.Cut	10.8	4131 - Aspen, Oak	High Density Log	84	Harvest	Clearcut with Reserves	Aspen	Cmpt. Review Proposal

Prescription Specs: clear cut leave 1-3 oak and pine per acre.

Other Comments: Acceptable regen is any mix of aspen, pine and oak.

Next Steps: Regen check in 3-5 yrs after harvest.

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
14	93014-C.Cut	27.6	4139 - Aspen, Mixed Deciduous	High Density Log	84	Harvest	Clearcut with Reserves	Aspen	Cmpt. Review Proposal

Prescription Specs: Clear cut, leave 1-3 oak and pine per acre.

Other Comments: Acceptable regen is any mix of aspen, oak and conifer. Some low ground in stand, recommend cutting in dry summer or winter.

Next Steps: Regen survey in 3-5 yrs after harvest.

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
16	93016-C.Cut	23.7	4131 - Aspen, Oak	High Density Log	88	Harvest	Clearcut with Reserves	Aspen	Cmpt. Review Proposal

Prescription Specs: clear cut leave 1-3 oak per acre. Include north portion of Comp 83 Stand 4 in treatment area (approximately 2 acres).

Other Comments: Acceptable regen is any mix of aspen, oak and pine.

Next Steps: Regen check in 3-5 yrs after harvest.

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
33	93033-C.Cut	8.6	4319 - Mixed Upland Forest	High Density Log	80	Harvest	Clearcut	Other Mixed Upland Deciduous	Cmpt. Review Proposal

Prescription Specs: clear cut. no retention needed, leaving adjacent stand indefinitely.

Other Comments: Acceptable regen is any mix of hdwd, apsen and oak.

Next Steps: Regen check in 3-5 yrs after harvest.

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
38	93038-C.Cut	16.1	4123 - Red Oak	High Density Log	84	Harvest	Clearcut with Reserves	Oak, Aspen	Cmpt. Review Proposal

Prescription Specs: clear cut leave 1 3 oak per acre.

Other Comments: Acceptable regen is any mix of oak, aspen and pine.

Next Steps: Regen check in 3-5 yrs after harvest.

Table 3 -- Treatments Prescribed with No Limiting Factor

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
39	**93039-C.Cut**	30.8	42250 - Pine, Oak	High Density Log	80	Harvest	Clearcut with Reserves	Pine, Oak	Cmpt. Review Proposal

Prescription Specs: Clear Cut. Leave 1-3 oak, red and white pine per acre.

Other Comments: Will need to improve crossing of Cranberry Creek. Acceptable regen is any mix of pine, aspen and oak.

Next Steps: Regen check in 3-5 yrs after harvest.

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
40	**93040-C.Cut**	44.1	4131 - Aspen, Oak	High Density Log	82	Harvest	Clearcut	Aspen, Oak	Cmpt. Review Proposal

Prescription Specs: clear cut, leave retention in areas heavy to oak. include southern tip of stand in Compartment 83.

Other Comments: Acceptable regen is any mix of aspen, oak and pine. Need to improve crossing on cranberry creek

Next Steps: Regen survey in 3-5 yrs after harvest.

Total Treatment Acreage Proposed: 161.7

Table 4 -- Treatments Prescribed with a Limiting Factor

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
			#Error						

Prescription Specs:

Other Comment:

Next Steps:

Limiting Factor and No Treatment Reason

Total Treatment Acreage Proposed: **0**

Data updated before 2:00 PM

Out of YOE -- Treatments
Prescribed with No Limiting Factor

Year of Entry: 2012

Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
022_St28C.Cut	25.0				Harvest	Clearcut with Reserves	Oak, Aspen	Cmpt. Review Proposal

Prescription Specs: Cut with stand 14 in Compartment 24. Clear cut: In areas of heavy oak leave up to 10-20BA of oak and pine. In areas predominantly apsen only leave scattered oak.

Other Comments: Acceptable regen is any mix of aspen, oak and pine. Some white pine is present. Leave both a mix red and white oak. No retention is needed because leaving steep slope along northern edge of stand.

Next Steps: Regen survey 3-5 yrs after harvest.

54030_OutOfYOE-STR	1.2				Harvest	Seed Tree with Reserves	Natural Red Pine, Mixed Deciduous	Cmpt. Review Proposal

Prescription Specs: MMark red pine residual to average tree height spacing. Leave 10 BA white pine and all oak, if present. Paint in 2 chain wide buffer along High Country Pathway, using pathway as centerline. Allow whole tree skidding; require chipping of tops, with movement of tops to approved landings to be done concurrently with harvesting. Post sale: scarify sale area to regenerate red pine, but may exclude areas of heavy white pine regeneration.

Other Comments:

Next Steps: Continued scarification until full stocking of red pine is achieved.

54004_St8-Burn	12.1				Prescribed Burn	Unspecified	Red Oak	Cmpt. Review Proposal

Prescription Specs: Burn with adjacent stand in Compartment 24. Understory burn to remove red maple regeneration

Other Comments:

Next Steps: follow up with timber harvest next entry.

Total Treatment Acreage Proposed: **38.2**

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	4130 - Aspen	High Density Sapling	8.0	17		
2	4131 - Aspen, Oak	High Density Pole	10.8	89		
3	6117 - Lowland Deciduous, Mixed Coniferous	High Density Pole	17.2	37		drainage along east edge of stand.
4	6120 - Lowland Cedar	High Density Log	9.4	105	141-170	
5	4130 - Aspen	Low Density Sapling	8.1	2		scattered mature pine and oak. cut in 2008.
6	42210 - Natural Red Pine	High Density Log	5.2	84		New stand added. narrow pine ridge..
7	6112 - Lowland Aspen	Low Density Sapling	11.3	2		cedar cut in 2008.
9	4121 - Oak, Aspen	High Density Log	28.5	89		mature oak with younger aspen underneath.
10	6120 - Lowland Cedar	High Density Log	11.5	105	141-170	lots of blow down.
11	6112 - Lowland Aspen	High Density Sapling	54.6	14		
12	6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	12.4	95		drainage.
13	4131 - Aspen, Oak	High Density Log	10.8	84	111-140	mix of aspen and oak on ridge.
14	4139 - Aspen, Mixed Deciduous	High Density Log	27.6	84		scattered pine, oak, cedar and ash. low ground in nw corner of stand other pockets scattered. leave retention in nw corner.
15	4311 - Pine, Aspen Mix	High Density Pole	15.9	90	81-110	mix of aspen and large red pine.
16	4131 - Aspen, Oak	High Density Log	23.7	88		
17	6120 - Lowland Cedar	High Density Log	22.3	108	81-110	open standing water in january. wet.....
18	6120 - Lowland Cedar	High Density Log	2.3	109	81-110	New stand added.
19	4130 - Aspen	High Density Sapling	43.4	26		scattered mature pine towards north end. some areas of tagalder. scattered oak.

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
20	6120 - Lowland Cedar	High Density Log	31.6	109	81-110	Precore Creek runs through the stand. old culvert site/road along south edge
21	4130 - Aspen	High Density Pole	41.6	24		some areas of low ground around the edge of stand. access from sw corner across adjacent cedar stand and Precore Creek. lumped in some older aspen in sw corner.
22	6111 - Lowland Balsam Poplar	Medium Density Log	27.2	85		Stand swapped from Non-Forested to Forested. very wet, pockets of tagalder mixed in.
23	4112 - Maple, Beech, Cherry Association	High Density Log	13.7	81	111-140	nice upland red maple stand. 6-8 stick. few pockets of low ground along south edge. no access unless cross PVT.
24	4130 - Aspen	High Density Pole	33.5	40	1-50	small diameters in east half. few pockets of low ground.
25	42290 - Natural Mixed Pine	High Density Log	17.6	77	111-140	adjacent to Devils lake. scattered cedar and red maple.
26	6120 - Lowland Cedar	High Density Log	47.2	102		mix of diameters, but cedar throughout. wet in areas.
27	6112 - Lowland Aspen	High Density Sapling	4.5	7		stand of cedar blow down with aspen regen. few cedar sprouts.
28	42220 - Natural Jack Pine	High Density Pole	24.4	40		old inventory said stand was cut and burned in 1970. looks like a lot jack is younger than 40.
29	42220 - Natural Jack Pine	High Density Pole	4.6	77	81-110	small ridge of jack pine.
32	42220 - Natural Jack Pine	High Density Pole	46.1	40		old inventory said stand was cut and burned in 1970. looks like a lot jack is younger than 40.
33	4319 - Mixed Upland Forest	High Density Log	8.6	80	81-110	New stand added. scattered white pine and oak.
34	6132 - Mixed Lowland Forest with Cedar	High Density Pole	10.4	94		wet, standing water.
37	4130 - Aspen	High Density Pole	11.6	35		some areas of low ground. access through PVT. cut in 10 yrs.
38	4123 - Red Oak	High Density Log	16.1	84	111-140	most aspen in sw corner of stand. low quality oak.
39	42250 - Pine, Oak	High Density Log	30.8	80	81-110	
40	4131 - Aspen, Oak	High Density Log	44.1	82	111-140	scattered white pine and wp regen.

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
43	6117 - Lowland Deciduous, Mixed Coniferous	Low Density Sapling	16.2	27		New stand added. mix of species regenerating in low area with areas of brush. scattered mature oak and hemlock.
44	4123 - Red Oak	High Density Log	23.4	83	81-110	lower quality oak
45	6120 - Lowland Cedar	High Density Log	28.1	104	200+	very nice cedar stand. west edge has big diameters, eastern portion is 6-8 inch.
46	6120 - Lowland Cedar	Medium Density Pole	21.9	95		wet, lots of blow down and dieback in the birch and balsam.

Stand	Cover Type	Acres	Gen Cmts:
8	622 - Lowland Shrub	2.7	New stand added.
30	622 - Lowland Shrub	1.6	
31	622 - Lowland Shrub	1.5	
35	622 - Lowland Shrub	10.0	
36	622 - Lowland Shrub	10.2	
41	622 - Lowland Shrub	72.3	
42	122 - Road/Parking Lot	12.0	

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.

Data updated before 2:00 PM

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.

Data updated before 2:00 PM

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.
ERA	Ecological Reference Areas	Ecological Reference Areas (ERAs) are high quality examples of natural communities that have been identified as Element Occurrences (EOs) by the Michigan Natural Features Inventory (MNFI) within the context of their natural community classification system. Element Occurrences with viability ranks of A (Excellent) or B (Good) and a Global (G) or State (S) element (rarity) ranking of endangered (1), threatened (2), or rare (3) serve as an initial base of ERAs. They may be located upon any ownership in the State. The system is comprised of individual or associations of natural community types that are managed for restoration and maintenance of natural ecological processes and values. The public may submit recommendations for lands as ERAs using the DNR Conservation Area Recommendation Form.