Newberry Forest Management Unit
Compartment Review Presentation
Compartment 123 Entry Year: 2012
Compartment Acreage: 1480 County: Luce

Revision Date: October 28, 2010

Stand Examiner: Ben Travis

Legal Description: T45N R10W Sections 34-36.

Identified Planning Goals ('Management Area' or 'RMU',if applicable): Compartment located within the County Line Hardwoods Management Unit.

Management Goals: Maintain forest health, forest resource protection, forest recreation, timber production, forest diversity and forest sustainability while considering wildlife, fisheries and environmental needs and concerns.

Soil and Topography: Kalkaska Sand is the major soil series within this compartment. Terrain is primarily upland with rolling hills.

Ownership Patterns, Development, and Land Use in and Around the Compartment: Ownership pattern consists of a large, contiguous block of state ownership interspersed with three smaller blocks of private in-holdings. The State of Michigan has leased 920 acres of land within Sections 34 and 35 to Luce county. Luce county is managing the forest stands on this acreage. This lease expires January 12, 2014. Large expanses of state forest are found to the immediate north, east and south of the compartment. This area is heavily visited/traveled due to the snowmobile trail (Section 34 rd), ORV trail, Canada Lakes Ski Trail and access to Milakokia Pond in Mackinac county. The compartment's close proximity to Newberry makes it a popular destination for many forms of forest recreation. A DNRE multi-use trailhead is located just northeast of the compartment. Several private camps are found within the compartment.

Unique, Natural Features: None known.

Archeological, Historical, and Cultural Features: None known.

Special Management Designations or Considerations: A high proportion of the state land within this compartment is held under a management lease by Luce county until January 12th, 2014.

Watershed and Fisheries Considerations: Fisheries Values – none.

Wildlife Habitat Considerations: Compartment 123 lies in lies along the southern edge of Luce county and in situated in the St. Ignace sub-subsection. It is heavily dominated by northern hardwoods and has a fair amount of aspen in the eastern and western portions of the compartment. Overall diversity of types in the compartment was low but stand level diversity was greater.

Wildlife objectives will be achieved by leaving a conifer component in aspen and northern hardwood stands. Hard and soft mast producing species will be retained where they occur and several stands will have mast producing species planted. In addition, yellow birch trees will be retained for future soft snags to benefit

cavity nesters and woodpeckers. Wildlife species using this compartment include white-tailed deer, moose, black bear, fisher, coyotes, gray wolves, bobcat, ruffed grouse, woodcock, snowshoe hare.

Mineral Resource and Development Concerns and/or Restrictions:
Sections 34 - 36, T45N-R10W, Luce County
Surface sediments consist of lacustrine (lake) sand and gravel. There is insufficient data to determine the glacial drift thickness. The Silurian Cabothead Shale subcrops below the glacial drift. The Cabothead does not have a current economic use. The Hendricks Quarry is located seven miles to the east. Gravel pits are located to the northwest and southwest and potential appears to be good. There is no economic oil and gas production in the UP.

Vehicle Access: Section 34 Road is the primary route through the compartment. Multiple forest roads branch into most areas of the compartment, providing good public lands access and private property access to camp owners.

Survey Needs: Placement of ¼ corner monument between Sections 33 and 34, T45N R10W.

Recreational Facilities and Opportunities: The Newberry-Naubinway ORV Trail, The Curtis Snowmobile Trail and the Canada Lakes Ski Trail all pass through the compartment. Hunting, wildlife viewing and trapping opportunities are also present.

Fire Protection: Potential for large fire growth would be low because of upland hardwood types, a few upland conifer types and short response times. Potential risk to private properties would be moderate.

Additional Compartment Information: None.

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

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

Cover Type & Treatment Map

Stand # 23 — Stocking Density

(412)0) - A7

Level 3 / Level 4 — OI Code

Cover Type Code

Compartment 123
T45N, R10W, Sec. 34-36
County: Luce
Unit: Newberry
YOE: 2012
Acres: 1,460 GIS Calculated
Stand Examiner: Ben Travis
Map Revised: 11/1/2010
Map Phase: Pre-Review

Legend

- Miris Corners
- Remonumented Section Corners
- Berm
- Gate
- Highway
- Paved Roads
- County Gravel Roads
- Poor Dirt Roads
- Non Recreational Trail
- Trails
- State Highway
- Motorcycle Trails
- Snowmobile Trails
- Ski Trails
- Bike Trails
- Hiking Trails
- Intermittent Stream/Drain
- Stream
- Lakes and Rivers

Treatments

- Planting (tree species)
- Thinning (Crown, Low, Systematic)
- Clearcut (w/Reserves, Patch/Strip)
- Selection (Group, Single Tree)

Forest Stands

Level 3

- 411 - Northern Hardwood
- 413 - Aspen Types
- 414 - Other Upland Deciduous
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 431 - Upland Mixed Forest
- 612 - Lowland Coniferous Forest

Non-Forest Stands

Level 3

- 310 - Herbaceous Openland
- 622 - Lowland Shrub
- 623 - Emergent Wetland

1 0.5 0 1 Miles

34 35 36

N

Michigan DNRE

85°34'0"W 85°33'0"W 85°32'0"W 85°31'0"W 85°30'0"W 85°29'0"W

46°15'0"N 46°14'0"N

Stand Boundary Map

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

Compartment 123
T45N, R10W, Sec. 34-36
County: Luce
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Legend
- Miris Corners
- Remonumented Section Corners
- Berm
- Gate
- Highway
- Paved Roads
- County Gravel Roads
- Poor Dirt Roads
- Trails
- State Highway
- Motorcycle Trails
- Snowmobile Trails
- Ski Trails
- Bike Trails
- Hiking Trails
- Intermittent Stream/Drain
- Stream
- Stand Boundaries

Forest Stands

Level 3

411 - Northern Hardwood
413 - Aspen Types
414 - Other Upland Deciduous
419 - Mixed Upland Deciduous
421 - Planted Pines
422 - Natural Pines
423 - Other Upland Conifers
431 - Upland Mixed Forest
612 - Lowland Coniferous Forest

Non-Forest Stands

Level 3

310 - Herbaceous Openland
622 - Lowland Shrub
623 - Emergent Wetland

34 35 36

N

Michigan DNRE

1 0.5 0 1 Miles

Dedicated & Proposed Special Conservation Area Map

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

Compartment 123
T45N, R10W, Sec. 34-36
County: Luce
Unit: Newberry
YOE: 2012
Acres: 1,460 GIS Calculated
Stand Examiner: Ben Travis
Map Revised: 11/1/2010
Map Phase: Pre-Review

85°34'0"W 85°33'0"W 85°32'0"W 85°31'0"W 85°30'0"W 85°29'0"W
46°15'0"N 46°14'0"N

34 35 36

1 6120-C6
2 4191-MD6
3 622-L0
4 310-G0
5 622-L0
6 4140-B6
7 6120-C6
8 6120-C6
9 6120-C6
10 623-N0
11 4130-A3
12 6120-C6
13 4130-A9
14 622-L0
15 622-L0
16 4319-UM5
17 6120-C6
18 4134-A9
19 310-G0
20 623-N0
21 623-N0
22 310-G0
23 623-N0
24 4134-A3
25 4134-A3
26 623-N0
27 623-N0
28 4319-UM5
29 4134-A3
30 623-N0
31 623-N0
32 4234-F2
33 4112-M6
34 622-D0
35 4319-UM4
36 4319-UM5
37 4112-M6
38 310-G0
39 310-G0
40 4233-F6
41 4220-W2
42 4211-R6
43 4112-M6
44 4116-M6
45 6129-Q6
46 4112-M9
47 310-G0
48 4226-MC9
49 4319-UM6
50 4130-A3
51 310-G0
52 4130-A9
53 4311-UM2
54 4130-A3
55 310-G0

Legend
- Miris Corners
- Remonumented Section Corners
- Stand Boundaries

Proposed Special Conservation Areas
- SCA - Special Conservation Area
- SCA Removal

Dedicated Special Conservation Areas
- Cold Water Lakes
- Cold Water Streams
- Boat Access Sites

Forest Stands

Level 3
- 411 - Northern Hardwood
- 413 - Aspen Types
- 414 - Other Upland Deciduous
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 431 - Upland Mixed Forest
- 612 - Lowland Coniferous Forest

Non-Forest Stands

Level 3
- 310 - Herbaceous Openland
- 622 - Lowland Shrub
- 623 - Emergent Wetland

1 0.5 0 1 Miles

34 35 36
N
Michigan DNRE

Table 1 – Total Acres by Cover Type and Age Class

Newberry Mgt. Unit **Compartment 123 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	0	61	26	0	0	0	33	0	31	0	0	0	0	0	**151**
Cedar	0	0	0	0	0	0	0	0	0	10	0	0	0	0	0	**10**
Herbaceous Openland	26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**26**
Lowland Conifers	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	**4**
Lowland Shrub	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**4**
Marsh	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**16**
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	**5**
Natural Mixed Pines	0	0	0	0	0	0	0	0	13	0	0	0	0	0	0	**13**
Northern Hardwood	0	0	0	0	0	8	0	0	0	10	1080	0	0	0	0	**1098**
Paper Birch	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	**2**
Red Pine	0	0	0	0	0	21	0	0	0	0	0	0	0	0	0	**21**
Treed Bog	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**9**
Upland Mixed Forest	0	0	0	0	41	0	9	0	0	13	0	0	0	0	0	**64**
Upland Spruce/Fir	0	0	4	0	0	27	0	0	0	0	0	0	0	0	0	**31**
White Pine	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0	**7**
Total	**54**	**0**	**65**	**26**	**41**	**63**	**9**	**33**	**13**	**76**	**1080**	**0**	**0**	**0**	**0**	**1460**

Table 2 – Proposed Treatment Summaries

Data updated before 2:00 PM

Newberry Mgt. Unit
Year of Entry 2012

Compartment 123
Total Compartment Acres: 1460

Acres by Treatment Type

Commercial Harvest - 257	Site Prep - 0	Tree Planting - 47	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	63	0	0	0	0	0	**63**
Mixed Upland Deciduous	5	0	0	0	0	0	**5**
Northern Hardwood	27	136	0	0	0	0	**163**
Paper Birch	2	0	0	0	0	0	**2**
Red Pine	0	0	0	0	21	0	**21**
Upland Spruce/Fir	4	0	0	0	0	0	**4**
Total	**101**	**136**	**0**	**0**	**21**	**0**	**257**

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
2	42123002-Cut	4.9	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	84	Harvest	Clearcut with Reserves	Mixed Upland Deciduous with Conifer	Cmpt. Review Proposal

Prescription Specs: Clearcut all species except cedar, hemlock, oak, yellow birch and white pine. Retain several mature aspen.

Other Comments: A dry channel connects stands 3 and 5. This appears to be an overflow outlet and needs to be left intact.

Next Steps: Follow-up treatment with a regeneration survey as per the work instructions. Acceptable regeneration is aspen, red maple, cherry, cedar, yellow birch, paper birch, balsam fir, white spruce, black spruce and white pine.

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
6	42123006-Cut	1.7	4140 - Other Upland Deciduous	High Density Pole	84	Harvest	Clearcut with Reserves	Mixed Upland Deciduous with Conifer	Cmpt. Review Proposal

Prescription Specs: Clearcut all species except cedar, hemlock, oak, yellow birch and white pine. Utilize a small lowland inclusion at northeast corner of stand for area retention. Incorporate several mature aspen and white birch within retention patch.

Other Comments:

Next Steps: Follow-up treatment with a regeneration survey as per the work instructions. Acceptable regeneration is aspen, red maple, cherry, cedar, yellowbirch, paper birch, balsam fir, white spruce, black spruce and white pine.

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
13	42123013-Cut	14.2	4130 - Aspen	High Density Log	61	Harvest	Clearcut with Reserves	Aspen	Cmpt. Review Proposal

Prescription Specs: Retain all cedar, hemlock, white pine and oak. Establish retention patch around a lowland inclusion (Lat/Lon 46.14.56.99148N, 85.33.01.44079W) and a nearby stick nest within large aspen tree (Lat/Lon 46.14.54.93574N, 85.33.00.73770W). Stick nest will be monitored by biologist. Incorporate some mature aspen within the retention patch. Keep sale boundary along top of steep slope to east. This steep slope forms the transition to a cedar stand (stand 7).

Other Comments: Will need to ensure that ORV trail is left intact during and after sale.

Next Steps: Follow-up treatment with a regeneration survey as per the work instructions. Acceptable regeneration is aspen, maple, cherry, cedar, yellow and paper birch, balsam fir, white spruce, black spruce and white pine.

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
18	42123018-Cut	30.8	4134 - Aspen, Spruce/Fir	High Density Log	84	Harvest	Clearcut with Reserves	Aspen, Spruce/Fir	Cmpt. Review Proposal

Prescription Specs: Clearcut all species except cedar, hemlock, oak, yellow birch and white pine. Retention will be by area reserve. Incorporate some mature aspen into retention patch.

Other Comments:

Next Steps: Follow-up treatment with a regeneration survey as per the work instructions. Acceptable regeneration is aspen, maple, cherry, cedar, yellow birch, paper birch, balsam fir, white spruce, black spruce and white pine.

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
33	42123033_small-Cut	8.5	4112 - Maple, Beech, Cherry Association	High Density Pole	90	Harvest	Clearcut with Reserves	Planted Mixed Pine	Cmpt. Review Proposal

Prescription Specs:

Other Comments:

Next Steps:

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
37	**42123037-Cut**	10.1	4112 - Maple, Beech, Cherry Association	High Density Pole	80	Harvest	Clearcut with Reserves	Maple, Beech, Cherry Association	Cmpt. Review Proposal

Prescription Specs: Many overstory hardwoods are stump sprout origin. Remove beech, retaining all other species. May need to mark some of the reserved overstory trees for logging and site prep operability. Cutting will be restricted to snow-free periods to maximize disturbance to substrate, exposing mineral soil seedbeds.

Other Comments: Stand will be treated as soon as possible following 2012 YOE compartment review to utilize beech before it dies from BBD.

Next Steps: Understory beech saplings and beech stump sprouts will be treated with herbicide. This stand may be included in a future effort to underplant BBD resistant beech. Follow-up treatment with regeneration survey within 4 years after the timber cutting report is completed. It is anticipated that diminished beech regeneration will allow other overstory species to establish. Acceptable regeneration is sugar maple, red maple, black cherry and conifers. Beech regeneration will persist at lower levels.

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
40	**42123040_small-Cut**	3.7	42330 - Upland Fir	High Density Pole	42	Harvest	Clearcut with Reserves	Natural White Pine	Cmpt. Review Proposal

Prescription Specs: Leave all white pine poles and sawtimber unless needed for logging operability. Retain all hemlock, yellow birch, cedar and oak.

Other Comments:

Next Steps: Follow-up treatment with regeneration survey within 4 years after finishing the timber cutting report. Acceptable regeneration is aspen, white birch, yellow birch, black cherry, white pine, fir, black spruce, red pine and white spruce.

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
42	**42123042-Cut**	20.6	42110 - Planted Red Pine	High Density Pole	49	Harvest	Systematic Thinning	Planted Red Pine	Cmpt. Review Proposal

Prescription Specs: Third row thin the plantation. Rows may be difficult to distinguish/follow in certain areas. All species will be removed within selected rows and left in unthinned rows.

Other Comments:

Next Steps: No further steps needed at this time.

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
43	**42123043-Cut**	8.3	4112 - Maple, Beech, Cherry Association	High Density Pole	49	Harvest	Clearcut with Reserves	Maple, Beech, Cherry Association	Cmpt. Review Proposal

Prescription Specs: Stand at one time was a failed red pine plantation (furrowed, planted same time as stand 42 to north). Overstory hardwoods are stump sprout origin. Remove beech, retaining all other species. May need to mark some scattered red pine for logging and site prep operability. Cutting will be restricted to snow-free periods to maximize disturbance to substrate, exposing mineral soil seedbeds.

Other Comments: Stand will be treated as soon as possible following 2012 YOE compartment review to utilize beech before it dies from BBD.

Next Steps: Understory beech saplings and beech stump sprouts will be treated with herbicide. This stand may be included in a future effort to underplant BBD resistant beech. Follow-up treatment with regeneration survey within 4 years after the timber cutting report is completed. It is anticipated that diminished beech regeneration will allow other overstory species to establish. Acceptable regeneration is sugar maple, red maple, black cherry and conifers. Beech regeneration will persist at lower levels.

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
46	**42123046-Cut**	136.1	4112 - Maple, Beech, Cherry Association	High Density Log	90	Harvest	Single Tree Selection	Maple, Beech, Cherry Association	Cmpt. Review Proposal

Prescription Specs: Mark stand down to to 70 to 90 basal area. Reserve all hemlock and cedar. Leave spruce and white pine unless needed for logging operability.

Other Comments:

Next Steps:

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
52	42123052-Cut	18.5	4130 - Aspen	High Density Log	63	Harvest	Clearcut with Reserves	Aspen	Cmpt. Review Proposal

Prescription Specs: Retention will be by area reserve. Incorporate some mature aspen, maple, spruce and fir into retention patch. Reserve cedar, hemlock, red pine and yellow birch. Retain most white pine unless providing too much residual shade to regenerate aspen in certain areas.

Other Comments:

Next Steps: Follow-up treatment with regeneration survey within 4 years after finishing timber cutting report. Acceptable regeneration is aspen, maple, cherry, yellow birch, white birch, fir, white spruce, black spruce and white pine.

35	42123035-Plant	20.6	4319 - Mixed Upland Forest	Low Density Pole	30	Tree Planting	Machine Plant	Mixed Upland Forest	Cmpt. Review Proposal

Prescription Specs: Wildlife Division may plant large balled and burlapped red and/or white oak in suitable sites, if funding is secured.

Other Comments:

Next Steps:

53	42123053-Plant	12.8	4311 - Pine, Aspen Mix	Medium Density Saplin	37	Tree Planting	Machine Plant	Pine, Aspen Mix	Cmpt. Review Proposal

Prescription Specs: Wildlife Division may plant large balled and burlapped red and white oak if funding permits.

Other Comments:

Next Steps:

38	NF_42123038-Plant	11.2	Non-Forested		0	Tree Planting	Machine Plant	Poverty Grass, Cladonia	Cmpt. Review Proposal

Prescription Specs: Wildlife Division may have funds to plant balled and burlapped red oak and white oak.

Other Comments:

Next Steps:

51	NF_42123051-Plant	1.6	Non-Forested		0	Tree Planting	Machine Plant	Rubus-Fern	Cmpt. Review Proposal

Prescription Specs: Wildlife Division may plant large balled and burlapped oaks if funding permits.

Other Comments:

Next Steps:

55	NF_42123055-Plant	1.1	Non-Forested		0	Tree Planting	Machine Plant	Rubus-Fern	Cmpt. Review Proposal

Prescription Specs: Wildlife Division may plant large red and white oak if funding permits.

Other Comments:

Next Steps:

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
Total Treatment Acreage Proposed:		**304.7**							

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

Prescription Specs:

Other Comments:

Next Steps:

Total Treatment Acreage Proposed: **0**

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	6120 - Lowland Cedar	High Density Pole	1.9	84		One stick cedar. Few yellow birch poles present.
2	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	4.9	84	141-170	Spruce crowns are sparse. Aspen, paper birch and spruce are fully mature and/or overmature - well-represented in the larger size classes. Infrequent overstory white spruce, yellow birch poles, overstory hemlock, cedar poles and black cherry poles. Some small hills in stand.
6	4140 - Other Upland Deciduous	High Density Pole	1.7	84		Ridgeline and flat abutting powerline ROW. Fir and birch snags present. Many white birch are 4 stick tall. White birch have nice form. Sporadic cedar regeneration in stand. Cedar, white spruce and black cherry are scarce overstory associates.
7	6120 - Lowland Cedar	High Density Pole	2.1	84		Healthy cedar canopy. Low occurrence of fir in overstory.
8	6120 - Lowland Cedar	High Density Pole	1.5	84		1 and 2 stick cedar. Infrequent white birch poles present.
9	6120 - Lowland Cedar	High Density Pole	2.6	84		1 and 2 stick cedar. Infrequent white birch poles present. Pockets of high density cedar regeneration to south, in small openings.
11	4130 - Aspen	High Density Sapling	9.1	18		Aspen are approximately 35 to 40 feet tall. Snowmobile Trail/Section 34 Rd forms NW boundary of stand. High, uniform stocking levels.
12	6120 - Lowland Cedar	High Density Pole	1.6	84		1 and 2 stick cedar. Infrequent white birch in overstory. Patches of high density cedar regeneration in small openings.
13	4130 - Aspen	High Density Log	14.2	61	81-110	ORV trail passes through stand. Small marsh inclusion designated as a OFS. Cedar fringe found around this small wetland. Small Sugar maple, tamarack, black cherry and white spruce are infrequent overstory associates. Steep bank along lowland cedar to east. Rolling terrain.
16	4319 - Mixed Upland Forest	Medium Density Pole	6.3	83		Red maple, red pine, white pine, cedar, black cherry and bigtooth aspen are infrequent overstory associates. Winding ridge between cedar types. ORV trail follows ridge. Terrain more rugged to to south - steep slope above marsh.
17	6120 - Lowland Cedar	High Density Pole	0.8	84		1 and 2 stick cedar. Patches of high density cedar regeneration in small openings.
18	4134 - Aspen, Spruce/Fir	High Density Log	30.7	84		High incidence of fir deadfall. Aspen and fir are fading. High stocking of fir and spruce regeneration. Slightly rolling terrain.
24	4134 - Aspen, Spruce/Fir	High Density Sapling	7.8	17		Aspen approximately 24 to 30 feet tall. White spruce, red maple and black cherry are infrequent overstory associates. Some steeper slopes on an east-west running ridge.

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
25	4134 - Aspen, Spruce/Fir	High Density Sapling	11.5	17		Aspen approximately 24 to 30 feet tall. Black spruce, cedar, black cherry and white pine are overstory associates. Few small marsh inclusions. Some steeper, longer slopes.
28	4319 - Mixed Upland Forest	Medium Density Pole	7.9	35		Ridges and rolling terrain. Scattered white pine, bigtooth aspen and black cherry in overstory.
29	4134 - Aspen, Spruce/Fir	High Density Sapling	25.4	18		Aspen is approximately 30 feet tall. Infrequent small marsh patches (dry). Higher hills to west of Millecoquins Pond access road.
32	42340 - Upland Spruce/Fir	Medium Density	3.9	18		Overstory trees are approximately 16 to 24 feet tall.
33	4112 - Maple, Beech, Cherry Association	High Density Pole	826.5	90	111-140	Large percentage of stand acreage is leased to Luce county, Luce co. manages these lands until Jan. 12, 2014, when they revert back to State of Michigan administration. State ORV trail within stand.
35	4319 - Mixed Upland Forest	Low Density Pole	20.6	30		Luce county lease lands until Jan 12, 2014. Forest Management conducted by Luce county. Site would be suitable for planting of interspersed oak for habitat improvement. Somewhat rolling terrain. Semi-open. Patches of older fir to north which could be treated when land management reverts back to state.
36	4319 - Mixed Upland Forest	Medium Density Pole	9.4	50		Stand is situated on west-facing slope. Former opening. Fir and white pine filling in small openings and understory. More black spruce in overstory to south and along edge of bog. Red pine, hemlock, ironwood and white spruce are infrequent overstory associates.
37	4112 - Maple, Beech, Cherry Association	High Density Pole	10.1	80	141-170	The west 1/2 of stand is included in the Luce county lease. Fir, yellow birch, ironwwod, white pine, trembling aspen and white spruce are minor overstory associates. Heavy BBD infestation. Somewhat hilly site. Steeper slopes to south and west.
40	42330 - Upland Fir	High Density Pole	27.2	42		Sugar maple, ironwood and red pine are minor overstory associates. Stand is located on long east-facing slope.
41	42200 - Natural White Pine	Medium Density	7.0	40		White spruce is uncommon overstory associate.
42	42110 - Planted Red Pine	High Density Pole	20.6	49	200+	Beech, balsam fir and jack pine are minor overstory associates. Site somewhat hilly. ORV trail runs through stand.
43	4112 - Maple, Beech, Cherry Association	High Density Pole	8.3	49		Sporadic, remnant rows of red pine poles in stand. Site is somewhat hilly. White pine is infrequent overstory associate. Extremely high incidence of BBD impacting stand.
44	4116 - Mixed N. Hardwood - Aspen	High Density Pole	26.2	90		

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
45	6129 - Mixed Coniferous Lowland Forest	High Density Pole	4.4	85	111-140	Good stocking of 3 inch to 10 inch Dbh hemlock.
46	4112 - Maple, Beech, Cherry Association	High Density Log	226.9	90	141-170	Yellow birch, white birch and trembling aspen are infrequent overstory associates.
48	42260 - Natural Pine, Mixed Deciduous	High Density Log	12.6	70		White spruce and black cherry are infrequent overstory associates. Black cherry and white birch saplings are at low densities in the understory. Apsen stocking increases in western portion of stand.
49	4319 - Mixed Upland Forest	High Density Pole	7.1	80		Hemlock ranging from seedling to sawtimber-size present. White pine canopy/supercanopy have excellent form, quality and vigor. Promote hemlock and white pine in any future treatments.
50	4130 - Aspen	High Density Sapling	26.3	27		Regenerating stand. Aspen is 30 to 35 feet tall, and will transition into a pole-sized stand during the next 10 years.
52	4130 - Aspen	High Density Log	18.5	63	111-140	Aspen diameters range up to 22" Dbh. Higher quality stand - 5 stick aspen. Hemlock and white birch are infrequent overstory associates.
53	4311 - Pine, Aspen Mix	Medium Density	12.8	37		Stand will become fully stocked and dominated by white pine within next 20 years. Poor-quality aspen acting as nurse crop for superior white pine regeneration. Red pine is infrequent overstory associate. Scattered small openings throughout stand. This stand is in a lower topographic position than higher site-index aspen stand to south.
54	4130 - Aspen	High Density Sapling	7.2	17		Aspen saplings are approximately 32 feet tall. Infrequent red maple and white spruce poles present.

Stand	Cover Type	Acres	Gen Cmts:
3	6220 - Alder/willow	1.0	
4	3103 - Rubus-Fern	1.3	No ORV problems.
5	6220 - Alder/willow	1.1	
10	6233 - Wet Meadow	1.2	RDR submitted for ATV damage.
14	6229 - Mixed lowland shrub	1.0	
15	6229 - Mixed lowland shrub	1.0	
19	31021 - Cool Season Grass	4.4	
20	6233 - Wet Meadow	1.3	
21	6233 - Wet Meadow	4.1	
22	3103 - Rubus-Fern	1.8	
23	6233 - Wet Meadow	1.3	
26	6233 - Wet Meadow	2.2	
27	6233 - Wet Meadow	2.4	
30	6233 - Wet Meadow	1.0	
31	6233 - Wet Meadow	2.4	
34	6224 - Treed Bog	8.8	
38	3101 - Poverty Grass, Cladonia	11.2	May provide suitable, partially-shaded planting sites for Wildlife Division to interplant larger red oaks.
39	3101 - Poverty Grass, Cladonia	2.8	Wildlife Division may want to interplant oak in stand.

Stand	Cover Type	Acres	Gen Cmts:
47	3103 - Rubus-Fern	1.3	
51	3103 - Rubus-Fern	1.6	
55	3103 - Rubus-Fern	1.1	

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