



COMPARTMENT REVIEW PRESENTATION

GAYLORD FOREST MANAGEMENT UNIT

COMPARTMENT: 129

ENTRY YEAR: 2014

ACREAGE: 2,210

COUNTY: Emmet

Revision Date: 04/03/2012

Stand Examiner: Shannon Harig

Legal Description: T34N-R04W, Sections 1,13,15,22,23,24

Management Goals: To provide for the protection, integrated management and responsible use of a healthy, productive, and undiminished forest resource base for the social, recreational, environmental, and economic benefit of the State of Michigan.

Soil and Topography: The topography in this compartment is mostly rolling though quite steep in parts of section 15. Most of this compartment is comprised of Blue Lake - Leelanau Association soils.

Ownership Patterns, Development, and Land Use in and Around the Compartment: There is some residential development in the area, mostly larger parcels. This compartment gets a lot of use from hunters and mushroom pickers as well as motorized recreation on the ORV trail and snowmobile trail.

Unique, Natural Features: Potential for goshawk and RSH

Archeological, Historical, and Cultural Features: There is a limited potential for archeological concerns in this compartment.

Special Management Designations or Considerations: None

Watershed and Fisheries Considerations: This compartment is within both CLMMU and NLHMU. There are no water bodies within the NLHMU portion of this compartment, so NLHMU has no concerns.

Wildlife Habitat Considerations: This compartment consists mostly of upland hardwoods with a few small inclusions of aspen and red pine. Some of the hardwoods are going to be treated to provide structural diversity within the stand and within the compartment. Beech is an important mast producer throughout this compartment and benefits white-tailed deer and wild turkey. A small aspen stand is going to be treated to provide some early successional habitat that benefits woodcock, grouse, and white-tailed deer.

Mineral Resource and Development Concerns and/or Restrictions: Surface sediments consist of ice-contact sand and gravel and minor lacustrine (lake) sand and gravel. The glacial drift thickness varies between 200 and 400 feet. The Devonian Traverse Group subcrops below the glacial drift. The Traverse is quarried for stone and cement products. The nearest gravel pit is located in Section 10 and the uplands appear to have good potential. The nearest oil and gas production, the Antrim Shale gas play, is located 10 miles to the south. The Compartment is leased for the Collingwood/Utica Shale Formations exploration.

Vehicle Access: Good access to most of the compartment.

Survey Needs: None

Recreational Facilities and Opportunities: ORV and Snowmobile Trail.

Fire Protection: Very little potential for a serious wildfire.

Additional Compartment Information:

- **The following 3 reports from the IFMAP Inventory System are attached:**
 - ◆ **Cover Type by Age Class**
 - ◆ **Proposed Treatments – No Limiting Factors**
 - ◆ **Proposed Treatments – With Limiting Factors**

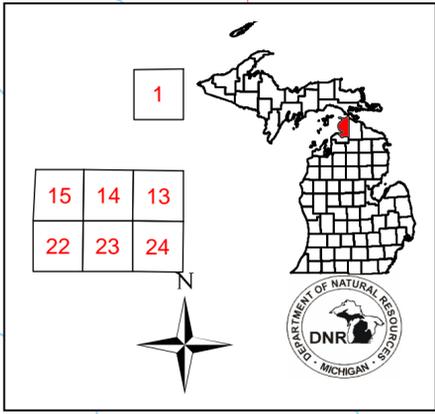
- **The following information is displayed, where pertinent, on the attached compartment maps:**
 - ◆ **Base feature information, stand numbers, cover types**
 - ◆ **Proposed treatments**
 - ◆ **Proposed road access system**
 - ◆ **Suggested potential and current SCA's**

Dedicated & Proposed Special Conservation Area Map

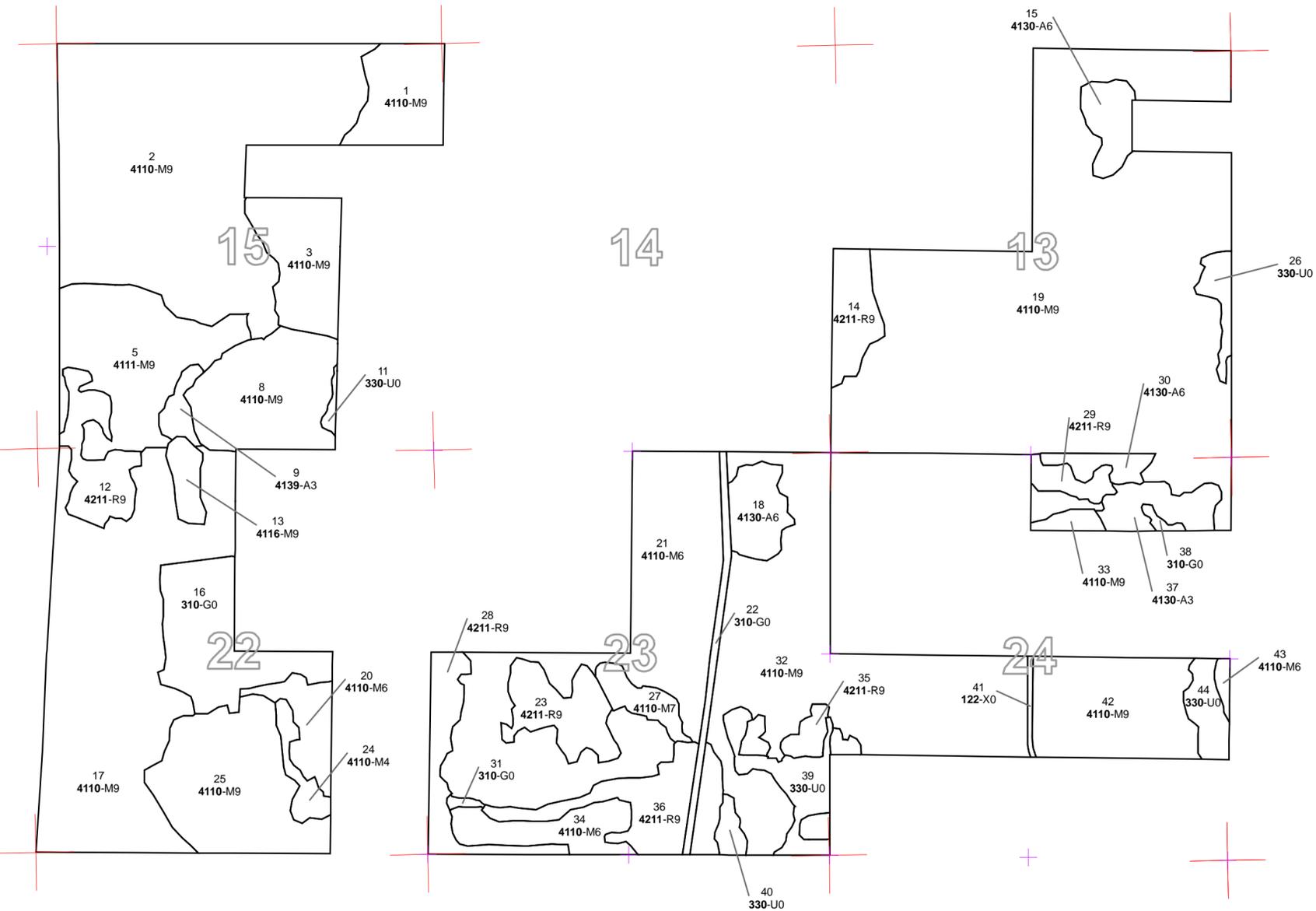
Compartment: 129
 T34N R04W 1, 13 - 15, 22 - 24
 County: Emmet
 Unit: Gaylord
 YOE: 2014
 Acres: 2,210 GIS Calculated
 Examiner: Shannon Harig
 Map Revised: 05/16/2012
 Map Phase: Pre-Review

Legend

- Miris Corners
- Remonumented Section Corners
- Stand Boundaries
- Dedicated Special Conservation Areas
- Cold Water Streams
- Forest Stands
 - Level 3
 - 411 - Northern Hardwood
 - 413 - Aspen Types
 - 421 - Planted Pines
- Non-Forest Stands
 - Level 3
 - 122 - Road/Parking Lot
 - 310 - Herbaceous Openland
 - 330 - Low-Density Trees



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



84°48'0"W 84°47'0"W 84°46'0"W 84°45'0"W 84°44'0"W

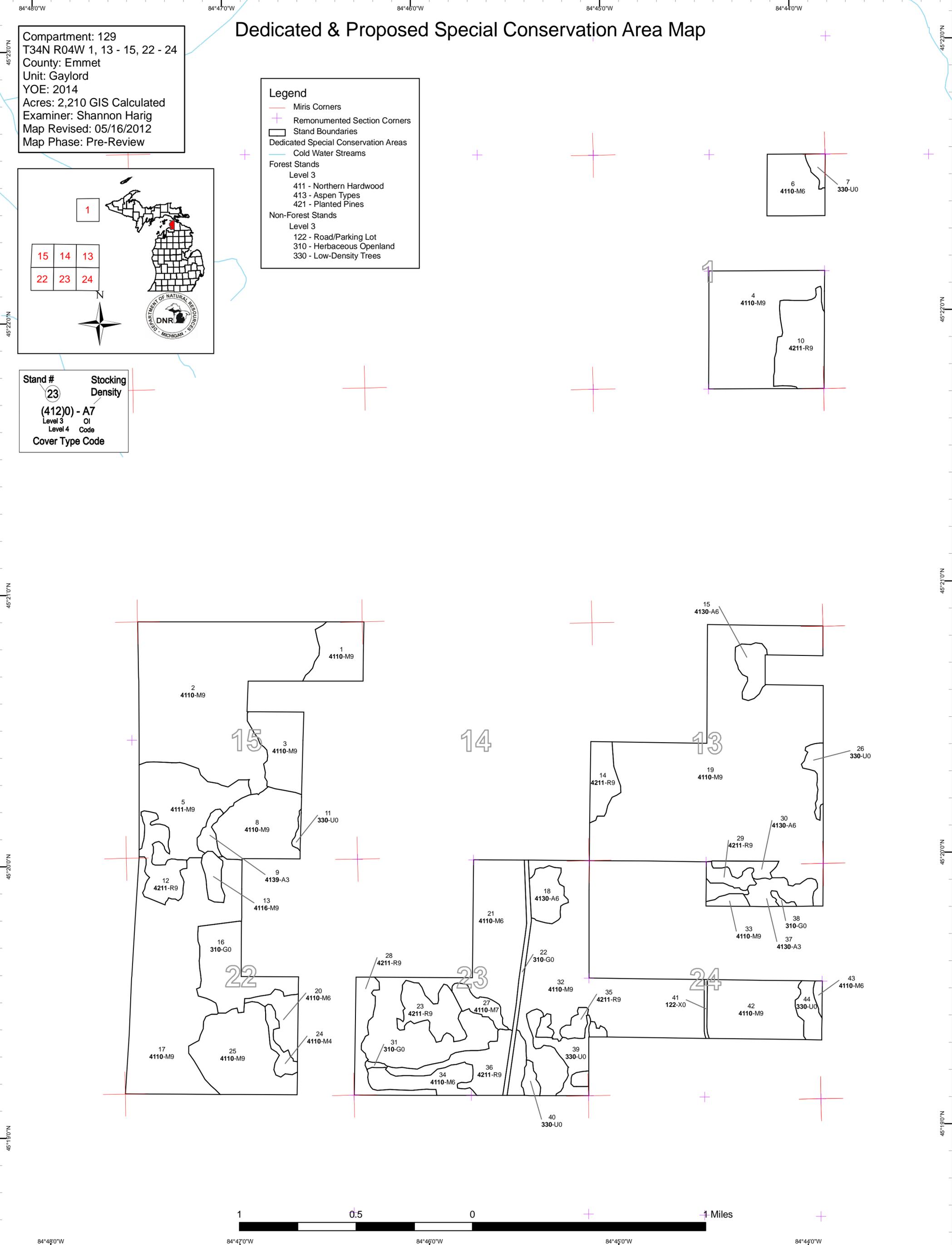


Table 1 – Total Acres by Cover Type and Age Class



	Age Class														Total
	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120 +	Uneven Age	
Aspen	0	18	7	0	34	15	0	0	0	0	0	0	0	0	74
Herbaceous Openland	68	0	0	0	0	0	0	0	0	0	0	0	0	0	68
Low-Density Trees	55	0	0	0	0	0	0	0	0	0	0	0	0	0	55
Northern Hardwood	0	0	0	0	0	0	39	231	245	1227	0	59	0	0	1801
Red Pine	0	0	0	0	0	209	0	0	0	0	0	0	0	0	209
Urban	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Total	125	18	7	0	34	225	39	231	245	1227	0	59	0	0	2210



Table 2 – Proposed Treatment Summaries

Gaylord Mgt. Unit
Year of Entry 2014

Compartment 129
Total Compartment Acres: 2210

Acres by Treatment Type

Commercial Harvest - 653	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		15	0	0	0	0	0	15
Northern Hardwood		0	469	0	0	0	0	469
Red Pine		4	0	0	0	164	0	168
Total		19	469	0	0	164	0	653



Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
1	52129001- Mark_HWD	33.2	4110 - Sugar Maple Association	High Density Log	93	141-170	Harvest	Single Tree Selection	4110 - Sugar Maple Association	Cmpt. Review Proposal
<u>Prescription</u> --Shannon Harig : 04/20/2012 comments:										
<u>Specs:</u> Mark to a residual BA of 80. Leave under represented species to maintain diversity. Concentrate marking in the 10" to 18" diameter classes (see graphs and tables in the compartment folder). Create at least one 100' canopy gap per 2 acres. Beech scale is present in the stand, refer to BBD and EAB guidelines when marking.										
<u>Other Comments:</u> Medium to well stocked Sugar Maple, Basswood, Red Maple, Beech and ash regen in the canopy gaps will be acceptable.										
<u>Next Steps:</u> Monitor regeneration in the canopy gaps.										
<u>Proposed Start Date:</u> 10/01/2013										
2	52129002_Mar k_HWD	189.5	4110 - Sugar Maple Association	High Density Log	98	111-140	Harvest	Single Tree Selection	4110 - Sugar Maple Association	Cmpt. Review Proposal
<u>Prescription</u> Mark to a residual BA of 80. Leave under represented species to maintain diversity. Concentrate marking in the 12" to 18" diameter classes (see graphs and tables in the compartment folder). Create at least one 100' canopy gap per 2 acres. Beech scale is present in the stand, refer to BBD and EAB guidelines when marking.										
<u>Other Comments:</u> Medium to well stocked Sugar Maple, Basswood, Red Maple, Beech and ash regen in the canopy gaps will be acceptable.										
<u>Next Steps:</u> Monitor regeneration in the canopy gaps.										
<u>Proposed Start Date:</u> 10/01/2013										
10	52129010- Marked_Thinning	48.0	42110 - Planted Red Pine	High Density Log	58	200+	Harvest	Crown Thinning	42110 - Planted Red Pine	Cmpt. Review Proposal
<u>Prescription</u> Mark to a residual BA of 100-110.										
<u>Specs:</u>										
<u>Other Comments:</u> Mark before leaf out. Deciduous species will be left for retention.										
<u>Next Steps:</u>										
<u>Proposed Start Date:</u> 10/01/2013										
12	52129012- Marked_Thinning	26.8	42110 - Planted Red Pine	High Density Log	55	171-200	Harvest	Crown Thinning	42110 - Planted Red Pine	Cmpt. Review Proposal
<u>Prescription</u> Mark stand to a residual BA of 100-110.										
<u>Specs:</u>										
<u>Other Comments:</u> Deciduous species will be left for retention.										
<u>Next Steps:</u>										
<u>Proposed Start Date:</u> 10/01/2013										



Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
14	52129014-Marked_Thinning	20.7	42110 - Planted Red Pine	High Density Log	57	171-200	Harvest	Crown Thinning	42110 - Planted Red Pine	Cmpt. Review Proposal

Prescription Mark stand to a residual BA of 100-110.

Specs:

Other Mark before leaf out. Deciduous species will be left for retention.

Comments:

Next Steps:

Proposed Start Date: 10/01/2013

15	52129015-CC	15.2	4130 - Aspen	High Density Pole	52	81-110	Harvest	Clearcut	4139 - Aspen, Mixed Deciduous	Cmpt. Review Proposal
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Prescription Clearcut. No retention due to small stand size.

Specs:

Other A mix of aspen and hardwood regen is acceptable.

Comments:

Next Steps:

Proposed Start Date: 10/01/2013

23	52129023-Row_Thin	28.0	42110 - Planted Red Pine	High Density Log	55	171-200	Harvest	Systematic Thinning	42110 - Planted Red Pine	Cmpt. Review Proposal
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Prescription Row thin. Consider taking 2 rows and leaving 3 due to narrow row spacing.

Specs:

Other Deciduous species will be left for retention.

Comments:

Next Steps:

Proposed Start Date: 10/01/2013

25	52129025-Cut	75.5	4110 - Sugar Maple Association	High Density Log	93	111-140	Harvest	Single Tree Selection	4110 - Sugar Maple Association	Cmpt. Review Proposal
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Prescription

Specs:

Other This stand was prescribed and sold last entry. The producer managed to cut about 3/4 of the sale before giving it up. This stand is the uncut portion. It was re-sold earlier this year. Medium to well stocked Sugar Maple, Basswood, Red Maple, Beech and ash regen in the canopy gaps will be acceptable.

Next Steps: Monitor regeneration in the canopy gaps.

Proposed Start Date: 01/01/2012



Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
28	52129028- Marked_Thinning	24.3	42110 - Planted Red Pine	High Density Log	55	200+	Harvest	Crown Thinning	42110 - Planted Red Pine	Cmpt. Review Proposal
<u>Prescription</u> Mark to a residual BA of 100-110. <u>Specs:</u> <u>Other</u> Mark before leaf out. Deciduous species will be left for retention. <u>Comments:</u> <u>Next Steps:</u> <u>Proposed Start Date:</u> 10/01/2013										
29	52129029_eas t-Cut	4.1	42110 - Planted Red Pine	High Density Log	54	200+	Harvest	Clearcut with Reserves	4111 - S.Maple, Hard Mast Association	Cmpt. Review Proposal
<u>Prescription</u> Clearcut. Mark to leave about 20-30 BA of Red Pine. <u>Specs:</u> <u>Other</u> Hardwood regeneration is acceptable. <u>Comments:</u> <u>Next Steps:</u> <u>Proposed Start Date:</u> 10/01/2013										
29	52129029- Marked_Thinning	4.6	42110 - Planted Red Pine	High Density Log	54	200+	Harvest	Crown Thinning	42110 - Planted Red Pine	Cmpt. Review Proposal
<u>Prescription</u> Mark to a residual BA of 100-110. <u>Specs:</u> <u>Other</u> <u>Comments:</u> <u>Next Steps:</u> <u>Proposed Start Date:</u> 10/01/2013										
32	52129032_Mar k_HWD	170.9	4110 - Sugar Maple Association	High Density Log	74	111-140	Harvest	Single Tree Selection	4110 - Sugar Maple Association	Cmpt. Review Proposal
<u>Prescription</u> Mark to a residual BA of 80. Leave under represented species to maintain diversity. Concentrate marking in the 8" to 14" diameter classes (see graphs and tables in the compartment folder). Create at least one 100' canopy gap per 2 acres. Beech scale is present in the stand, refer to BBD and EAB guidelines when marking. <u>Other</u> Medium to well stocked Sugar Maple, Basswood, Red Maple, Beech and ash regen in the canopy gaps will be acceptable. <u>Comments:</u> <u>Next Steps:</u> Monitor regeneration in canopy gaps. <u>Proposed Start Date:</u> 10/01/2013										

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	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
35	52129035-Marked_Thinning	11.9	42110 - Planted Red Pine	High Density Log	55	171-200	Harvest	Crown Thinning	42110 - Planted Red Pine	Cmpt. Review Proposal

Prescription Mark to a residual BA of 100-110.

Specs:

Other Mark before leaf out. Deciduous species will be left for retention.

Comments:

Next

Steps:

Proposed

Start Date: 10/01/2013

**Total Treatment
Acreage Proposed: 652.7**

Table 4 -- Treatments Prescribed with a Limiting Factor



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

Prescription Specs:

Other Comment:

Next Steps:

Proposed Start Date: #Error

Limiting Factor and No Treatment Reason

Total Treatment Acreage Proposed: 0

Out of YOE -- Treatments
Prescribed with No Limiting Factor

Year of Entry: 2014



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

Other
Comments:

Next
Steps:

Proposed
Start Date: #Error

**Total Treatment
Acreage Proposed: 0**

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Gaylord Mgt. Unit

5 – Forested Stands

Compartment: 129

Year of Entry: 2014



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	4110 - Sugar Maple Association	High Density Log	33.2	93	141-170	Small stick nest in a large beech in the NE corner of the stand. Good quality stand.
2	4110 - Sugar Maple Association	High Density Log	248.4	98	111-140	A lot of ash in the NW part of the stand. Steep in places but most of the stand is accessible. Sawlog/pole size hemlock scattered throughout stand.
3	4110 - Sugar Maple Association	High Density Log	39.0	98	111-140	This stand contains a lot of large diameter trees, most are good quality.
4	4110 - Sugar Maple Association	High Density Log	110.4	95	81-110	Thinned last entry. Good quality sawlogs. Beech scale present throughout stand.
5	4111 - S.Maple, Hard Mast Association	High Density Log	74.4	98	81-110	Rolling, smaller diameters. Some nice large Red Oak.
6	4110 - Sugar Maple Association	High Density Pole	36.5	68	111-140	Decent quality, very hilly. Hardwood saps coming in under some of the pockets of aspen. Allow aspen to sines.
8	4110 - Sugar Maple Association	High Density Log	58.7	119	111-140	Good quality stems.
9	4139 - Aspen, Mixed Deciduous	High Density Sapling	7.1	29	1-50	
10	42110 - Planted Red Pine	High Density Log	48.0	58	200+	
12	42110 - Planted Red Pine	High Density Log	26.8	55	171-200	
13	4116 - Mixed N. Hardwood - Aspen	High Density Log	9.5	80	141-170	
14	42110 - Planted Red Pine	High Density Log	20.7	57	171-200	Stand was thinned last entry.
15	4130 - Aspen	High Density Pole	15.2	52	81-110	Aspen is showing signs of decline.
17	4110 - Sugar Maple Association	High Density Log	194.1	93	51-80	Thinned last entry.
18	4130 - Aspen	High Density Pole	19.4	46	81-110	Nice regen.
19	4110 - Sugar Maple Association	High Density Log	429.1	95	81-110	Thinned last entry. A lot of berries. Some scattered heavy ash regen.
20	4110 - Sugar Maple Association	High Density Pole	18.4	93	111-140	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
21	4110 - Sugar Maple Association	High Density Pole	162.8	89	111-140	Good quality stand. Rolling. Decent access.
23	42110 - Planted Red Pine	High Density Log	28.0	55	171-200	This stand was planted with a wider spacing than most resulting in some large diameter trees. This stand has not been thinned.
24	4110 - Sugar Maple Association	Low Density Pole	9.5	80	1-50	
25	4110 - Sugar Maple Association	High Density Log	75.5	93	111-140	This stand is part of a larger stand that was prescribed last entry. It was sold and partially cut, this stand being the uncut portion. This was cruised and sold again last year.
27	4110 - Sugar Maple Association	Low Density Log	11.8	70	1-50	
28	42110 - Planted Red Pine	High Density Log	24.3	55	200+	Good access, hilly in places but operable.
29	42110 - Planted Red Pine	High Density Log	8.7	54	200+	A couple small pockets of mortality in NW part of the stand.
30	4130 - Aspen	High Density Pole	14.2	44	171-200	
32	4110 - Sugar Maple Association	High Density Log	194.4	74	111-140	Stick nest in large beech in NE corner of stand.
33	4110 - Sugar Maple Association	High Density Log	4.8	95		
34	4110 - Sugar Maple Association	High Density Pole	24.7	77	111-140	Good quality stems in east 1/3, rolling, operable.
35	42110 - Planted Red Pine	High Density Log	11.9	55	171-200	
36	42110 - Planted Red Pine	High Density Log	40.9	55	111-140	Good quality. Row thinned last entry.
37	4130 - Aspen	High Density Sapling	18.4	14		
42	4110 - Sugar Maple Association	High Density Log	63.5	89	111-140	This was thinned last entry. Some decent regen gaps but not a lot of hardwood regen. Regen gaps may need to be larger.
43	4110 - Sugar Maple Association	High Density Pole	2.6	60	81-110	Very small pole stand.



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
7	330 - Low-Density Trees	5.1	N/A	Unspecified	Filling in with maple and aspen. Some sumac present also.
11	330 - Low-Density Trees	2.0	N/A	Unspecified	
16	310 - Herbaceous Openland	53.3	N/A	Unspecified	
22	310 - Herbaceous Openland	11.8	N/A	Unspecified	
26	330 - Low-Density Trees	8.8	N/A	Unspecified	
31	310 - Herbaceous Openland	1.3	N/A	Unspecified	A lot of raspberries and a few scrubby cherries.
38	310 - Herbaceous Openland	1.7	N/A	Unspecified	
39	330 - Low-Density Trees	21.7	N/A	Unspecified	Scattered cherry and aspen poles and saplings. Some bush honeysuckle and blackberries.
40	330 - Low-Density Trees	5.2	N/A	Unspecified	
41	122 - Road/Parking Lot	2.0	N/A	Unspecified	
44	330 - Low-Density Trees	12.4	N/A	Unspecified	Mostly cherry with some sugar maple.



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
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