



# COMPARTMENT REVIEW PRESENTATION

## *GAYLORD FOREST MANAGEMENT UNIT*

### COMPARTMENT: 33

**ENTRY YEAR: 2012**

**ACREAGE: 1,886**

**COUNTY: Otsego**

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**Revision Date:** 5/28/2010

**Stand Examiner:** Tim Greco

**Legal Description:** T31N R04W Sec. 5, 6 and 7

**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:** This compartment's topography ranges from flat on the east half to rolling hills and steep slopes to the west. Dominant upland soil types include East Lake sand, Rubicon sand, Leelanau loamy sand and Mancelona loamy sand. The better quality soils are well drained and moderately permeable, occurring on moraines. The remaining upland soils are somewhat excessively drained, dominating outwash plains and moraines. Wet areas are rare in this compartment. The few that occur are very poorly drained Lupton muck.

**Ownership Patterns, Development, and Land Use in and Around the Compartment:** This compartment is solid State ownership with another large block of State land to the west. Surrounding private ownership varies in parcel size with heavy agricultural emphasis. Gas development is common.

**Unique, Natural Features:** The South Branch of the Boyne River in the southwest corner of the compartment.

**Archeological, Historical, and Cultural Features:** None known.

**Special Management Designations or Considerations:** The South Branch of the Boyne River is a SCA.

**Watershed and Fisheries Considerations:** This compartment contains a portion of the South Branch Boyne River, a designated trout stream within the Lake Charlevoix watershed. Scheduled treatments are well away from the river, and provide appropriate protection for this waterbody.

**Wildlife Habitat Considerations:** This compartment contains mostly upland hardwoods with a few scattered openings that are used by wild turkey and white-tailed deer, especially in heavy years of beech nut production. Portions of stands 1, 3, 12, 16, 33, and 40 are going to be treated to provide structural diversity in these northern hardwood communities. Stand 20 and a portion of stand 25 are going to be clear cut to provide some early succesional habitat. This area receives moderate hunting pressure for white-tailed deer and wild turkey.

**Mineral Resource and Development Concerns and/or Restrictions:** Surface sediments consist of an end moraine of coarse textured till and glacial outwash sand and gravel and postglacial alluvium. The glacial drift thickness varies between 200 and 400 feet. Beneath the glacial drift are the Ellsworth and Antrim Shales. These shales are quarried for cement products, elsewhere in the State. Several gravel pits are located in the area. State lands located on the uplands have good gravel potential. Oil and gas potential in the area is primarily for the Antrim Shale gas play. The compartment appears to be fully developed for the Antrim.

**Vehicle Access:** Access is good throughout the compartment.

**Survey Needs:** None.

**Recreational Facilities and Opportunities:** This compartment contains portions of the Michigan Cross Country Cycle Trail (MCCCT) and Chandler Hills Snowmobile Trail.

**Fire Protection:**

**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**

# Cover Type & Treatment Map

**Legend**

- Miris Corners
- RLS Corners
- Berms
- Gates
- Pipe
- Power
- Railroads
- County Paved Roads
- Paved Roads
- County Gravel Roads
- Poor Dirt Roads
- County Poor Dirt Roads
- Intermittent Stream/Drain
- Stream
- Lakes and Rivers
- Trails
- MCCCT Trails
- Snowmobile Trails

**Treatments**

- Clearcut (w/Reserves, Patch/Strip)
- Selection (Group, Single Tree)

**Forest Stands**

Level 3

- 411 - Northern Hardwood
- 421 - Planted Pines
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest

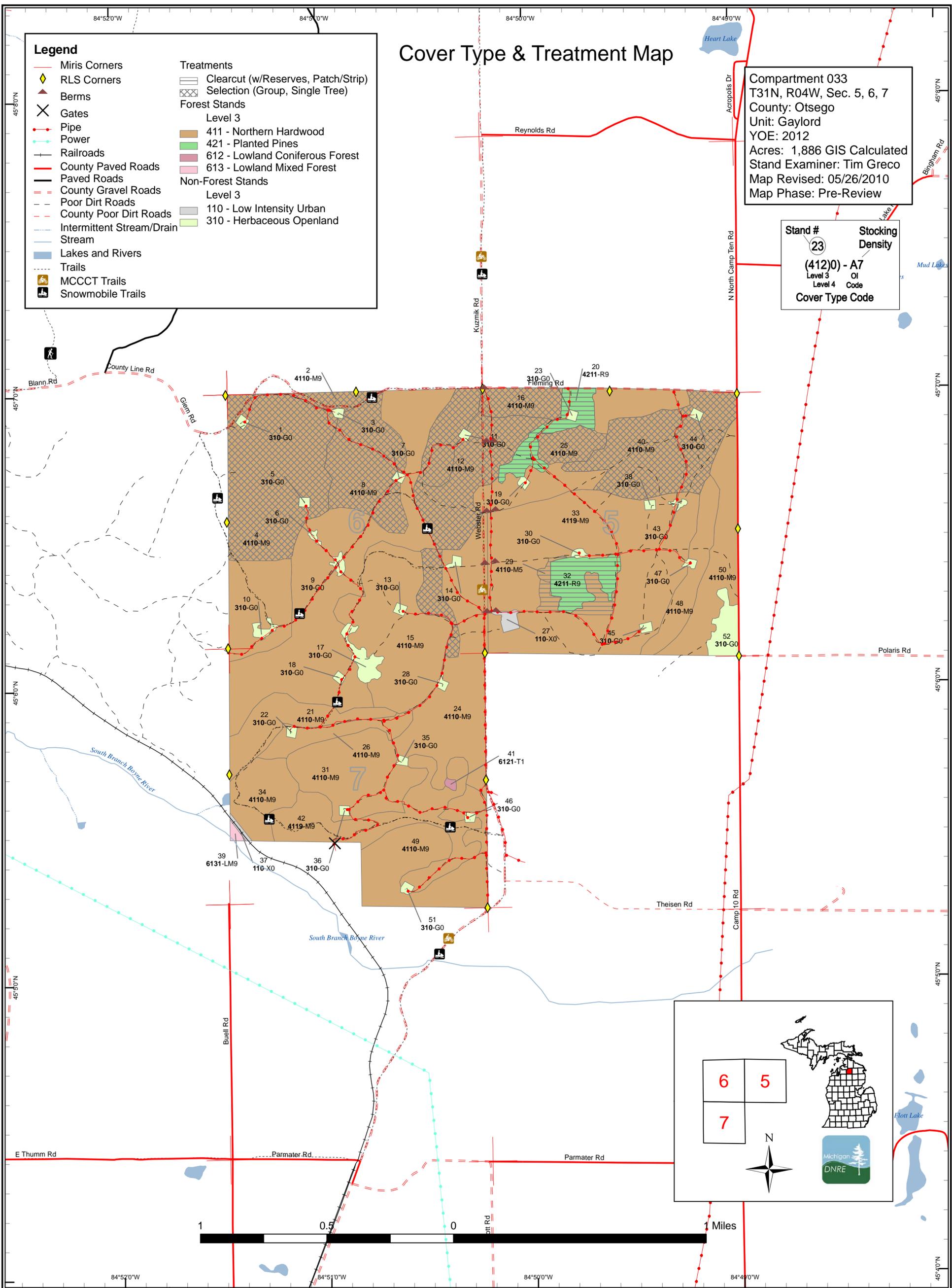
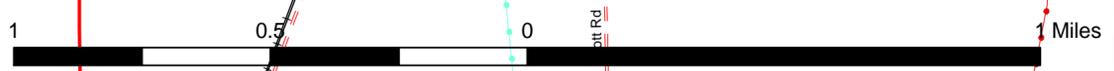
**Non-Forest Stands**

Level 3

- 110 - Low Intensity Urban
- 310 - Herbaceous Openland

Compartment 033  
 T31N, R04W, Sec. 5, 6, 7  
 County: Otsego  
 Unit: Gaylord  
 YOE: 2012  
 Acres: 1,886 GIS Calculated  
 Stand Examiner: Tim Greco  
 Map Revised: 05/26/2010  
 Map Phase: Pre-Review

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

# Stand Boundary Map

## Legend

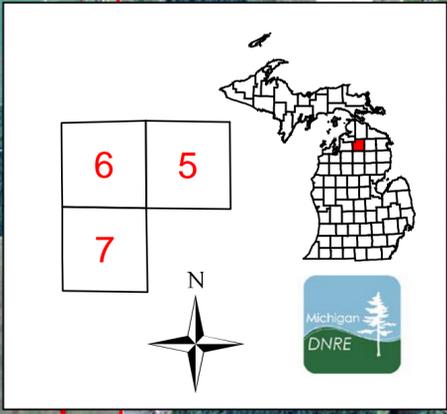
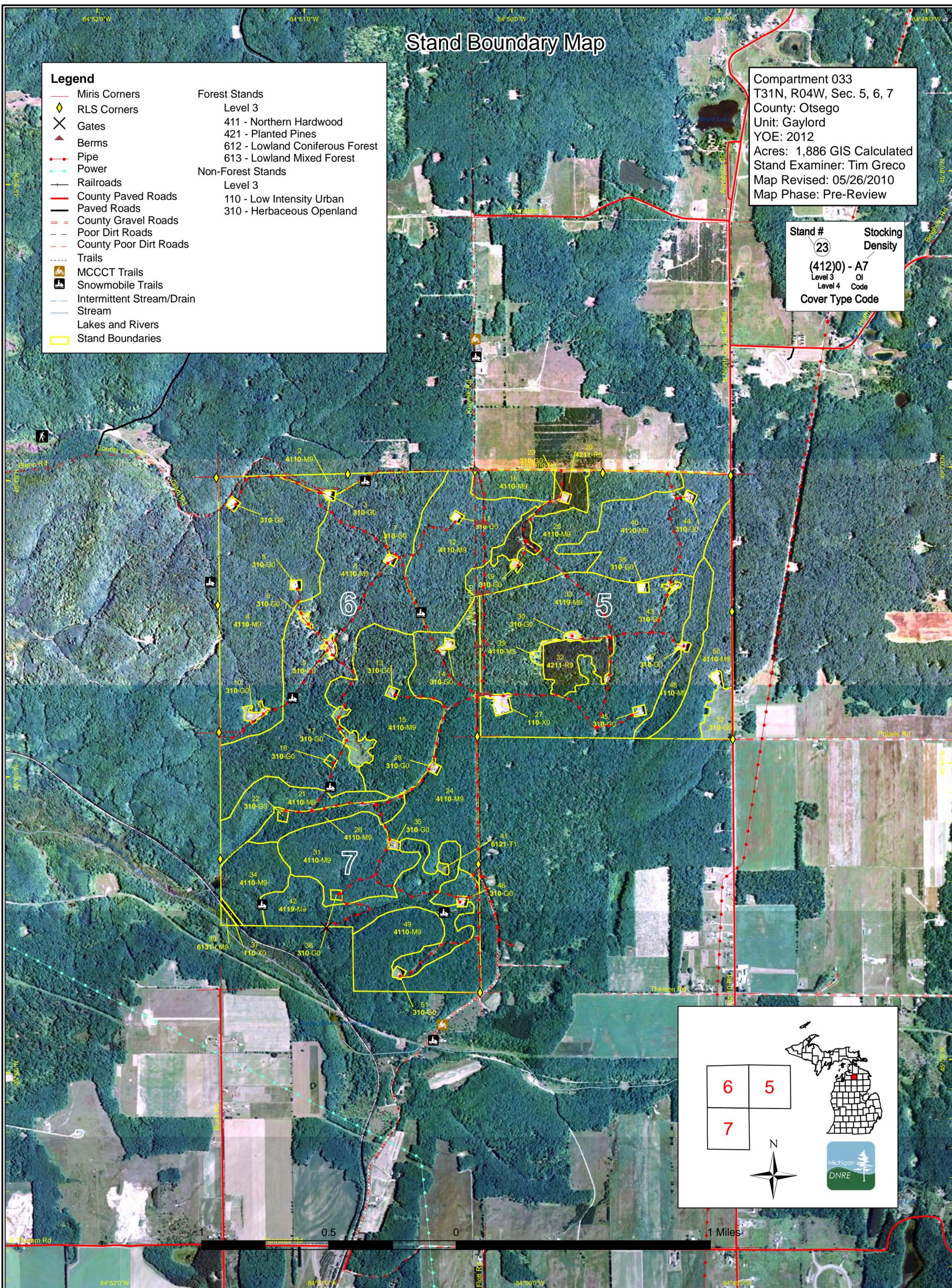
- Miris Corners
- ◆ RLS Corners
- ✕ Gates
- ▲ Berms
- Pipe
- Power
- Railroads
- County Paved Roads
- Paved Roads
- County Gravel Roads
- - - Poor Dirt Roads
- - - County Poor Dirt Roads
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- MCCCT Trails
- Snowmobile Trails
- Intermittent Stream/Drain
- Stream
- Lakes and Rivers
- Stand Boundaries

## Forest Stands

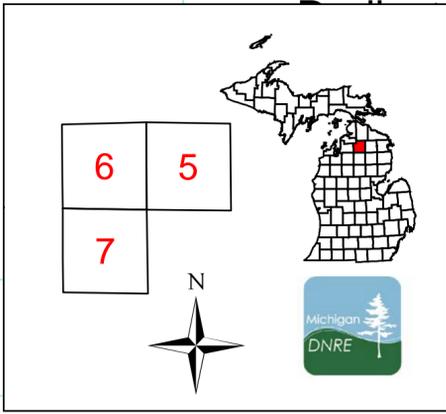
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Stand # **23**      Stocking Density  
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 Level 3      OI  
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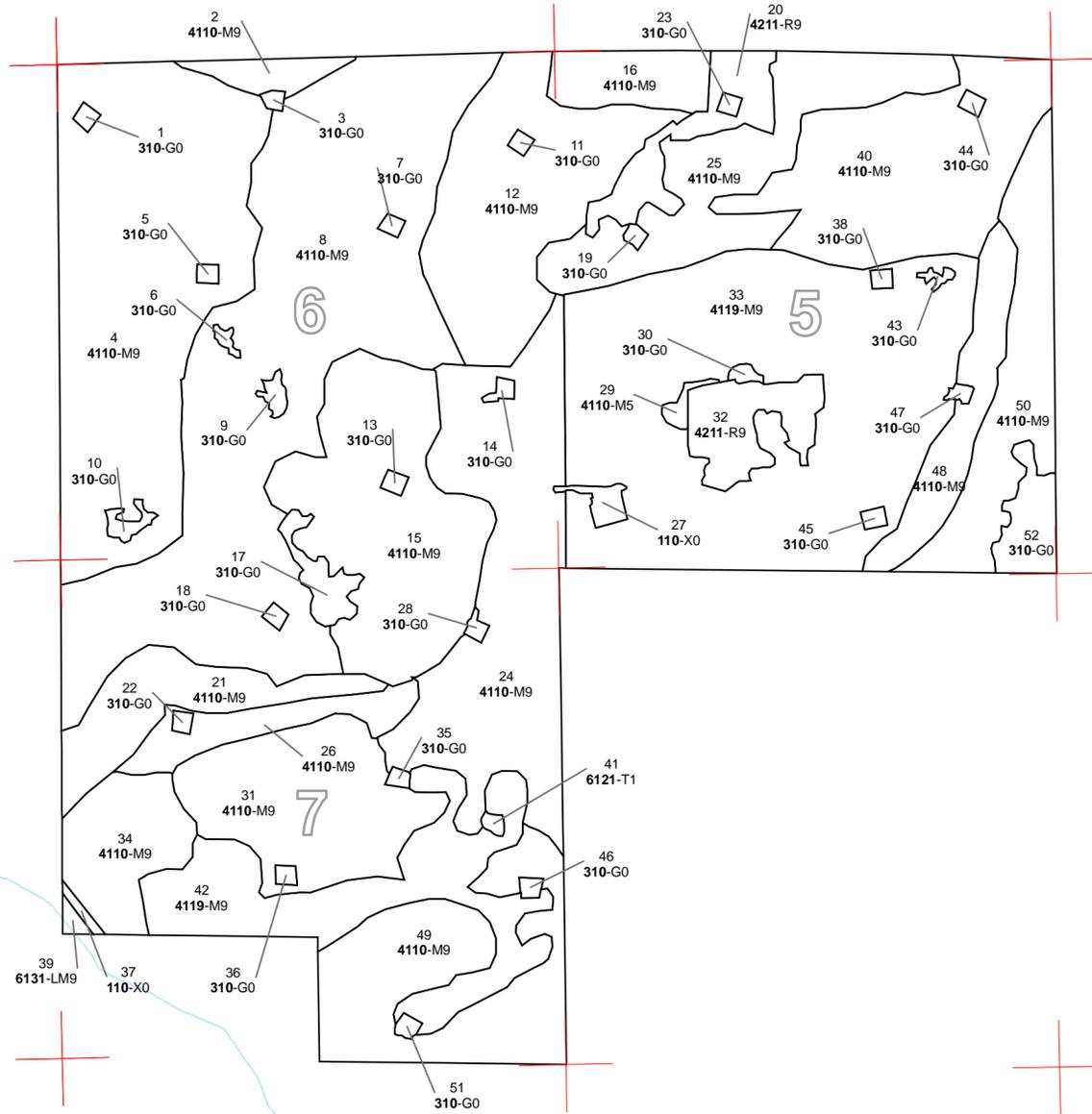


# Dedicated & Proposed Special Conservation Area Map

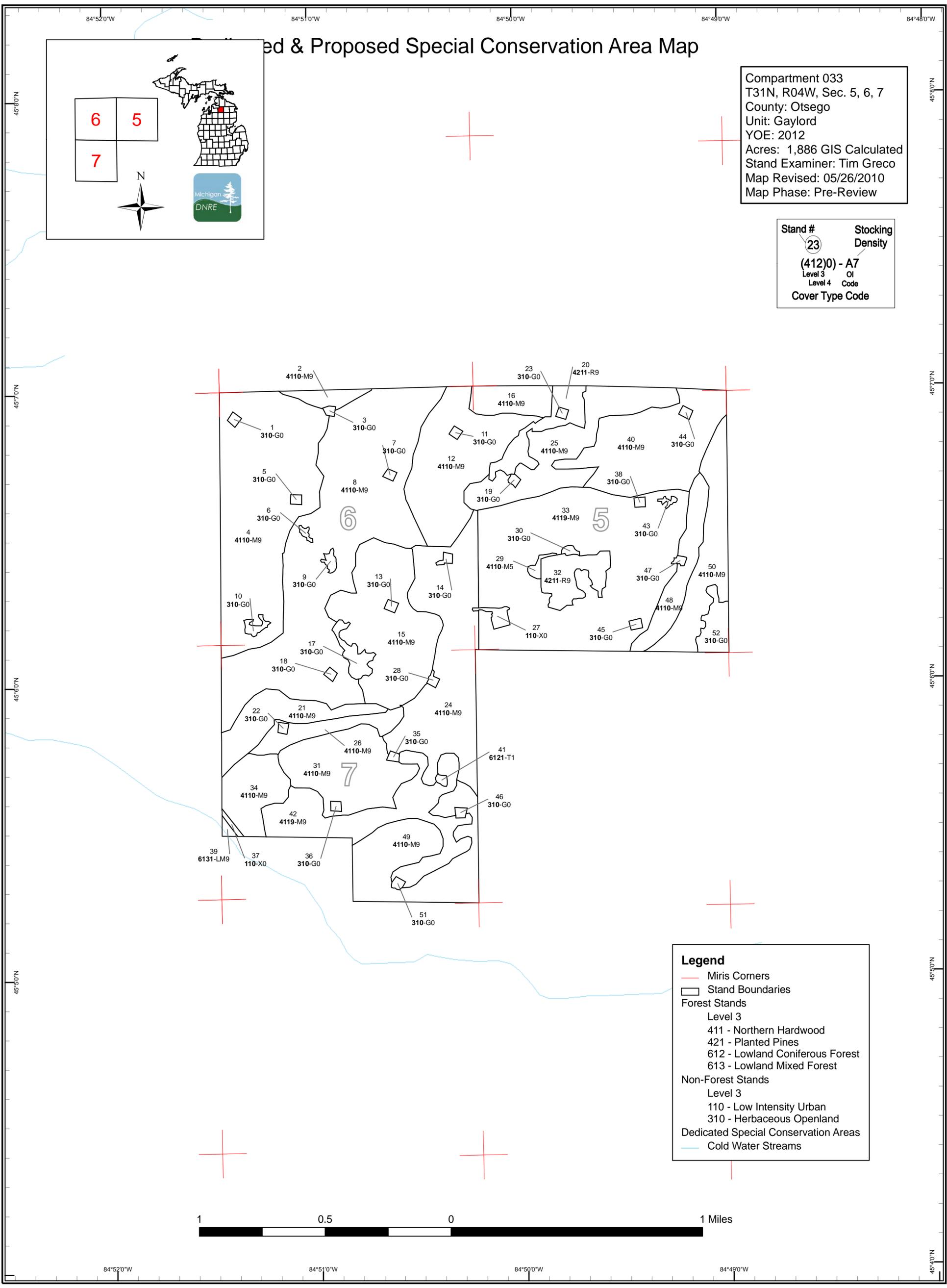
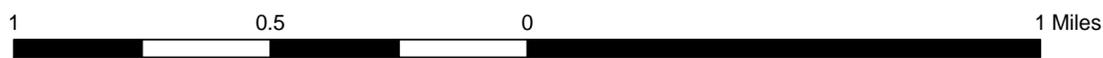


Compartment 033  
 T31N, R04W, Sec. 5, 6, 7  
 County: Otsego  
 Unit: Gaylord  
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 Acres: 1,886 GIS Calculated  
 Stand Examiner: Tim Greco  
 Map Revised: 05/26/2010  
 Map Phase: Pre-Review

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



**Legend**  
 — Miris Corners  
 □ Stand Boundaries  
**Forest Stands**  
 Level 3  
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**Dedicated Special Conservation Areas**  
 — Cold Water Streams



**Table 1 – Total Acres by Cover Type and Age Class**  
(Level 3 Cover Type)



	Age Class														Total	
	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
Herbaceous Openland	52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	52
Low Intensity Urban	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Lowland Coniferous Forest	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	2
Northern Hardwood	0	0	0	0	0	2	0	97	441	1116	118	0	0	0	0	1775
Planted Pines	0	0	0	0	0	51	0	0	0	0	0	0	0	0	0	51
<b>Total</b>	<b>58</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>54</b>	<b>0</b>	<b>97</b>	<b>443</b>	<b>1116</b>	<b>118</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>0</b>	<b>1887</b>



## Table 2 – Proposed Treatment Summaries

**Gaylord Mgt. Unit**  
**Year of Entry 2012**

**Compartment 033**  
**Total Compartment Acres: 1887**

### Acres by Treatment Type

Commercial Harvest - 572	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
Northern Hardwood	16	505	0	0	0	0	0	520
Red Pine	51	0	0	0	0	0	0	51
<b>Total</b>	<b>67</b>	<b>505</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>572</b>



Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
2	52033002-Cut	10.6	4110 - Sugar Maple Association	High Density Log	80	Harvest	Single Tree Selection	Sugar Maple Association	Cmpt. Review Proposal
<p><u>Prescription</u> MARK STAND TO 80 SQ. FT. RESIDUAL. FOCUS EFFORTS ON CROP TREE RELEASE AND CREATING AND CLEANING</p> <p><u>Specs:</u> REGENERATION GAPS. GAP SIZE SHOULD RANGE FROM 30 TO 100 FEET IN DIAMETER. FOCUS REGEN GAPS IN AREAS WHERE RESIDUAL QUALITY IS LOWEST. AVOID STEEP SLOPES WHEN RUNNING BOUNDARY.</p> <p><u>Other</u> BA = 120 SQ. FT. FROM 3 PLOTS. POSTED PRIVATE ON STATE.</p> <p><u>Comments:</u></p> <p><u>Next Steps:</u></p>									
4	52033004-Cut	147.6	4110 - Sugar Maple Association	High Density Log	80	Harvest	Single Tree Selection	Sugar Maple Association	Cmpt. Review Proposal
<p><u>Prescription</u> MARK STAND TO 80 SQ. FT. RESIDUAL. FOCUS EFFORTS ON CROP TREE RELEASE AND CREATING AND CLEANING</p> <p><u>Specs:</u> REGENERATION GAPS. GAP SIZE SHOULD RANGE FROM 30 TO 100 FEET IN DIAMETER. FOCUS REGEN GAPS IN AREAS WHERE RESIDUAL QUALITY IS LOWEST.</p> <p><u>Other</u> BA = 140 SQ. FT. FROM 9 PLOTS. THINNED 1994. SOME STEEP SLOPES.</p> <p><u>Comments:</u></p> <p><u>Next Steps:</u></p>									
8	52033008_sm all-Cut	76.0	4110 - Sugar Maple Association	High Density Log	80	Harvest	Single Tree Selection	Sugar Maple Association	Cmpt. Review Proposal
<p><u>Prescription</u> MARK STAND TO 80 SQ. FT. RESIDUAL. FOCUS EFFORTS ON CROP TREE RELEASE AND CREATING AND CLEANING</p> <p><u>Specs:</u> REGENERATION GAPS. GAP SIZE SHOULD RANGE FROM 30 TO 100 FEET IN DIAMETER. FOCUS REGEN GAPS IN AREAS WHERE RESIDUAL QUALITY IS LOWEST. PROTECT SCATTERED ELM.</p> <p><u>Other</u> BA = 135 SQ. FT. FROM 7 PLOTS. STAND WAS THINNED IN 2003. THERE ARE SCATTERED LARGE DIAMETER/CROWN HM WITH</p> <p><u>Comments:</u> SOME DEFECT(FORK/SWEEP). CONSIDER AS SEED SOURCE.</p> <p><u>Next Steps:</u></p>									
12	52033012_gro upselect-Cut	72.9	4110 - Sugar Maple Association	High Density Log	85	Harvest	Group Selection	S.Maple, Hard Mast Association	Cmpt. Review Proposal
<p><u>Prescription</u> OVERALL HARVEST OBJECTIVES SHOULD FOCUS ON ESTABLISHING CLEAN REGENERATION GAPS. THESE SHOULD RANGE IN</p> <p><u>Specs:</u> SIZE FROM 100 TO 200 FEET IN DIAMETER. MARK CONNECTORS BETWEEN THESE GAPS WITH A TREE LENGTH HARVEST IN MIND. THE REMAINDER OF POOR QUALITY AREAS SHOULD BE LEFT UNMARKED. TARGET APPROXIMATELY 20% OF THE TOTAL STAND AREA IN GAPS.</p> <p><u>Other</u> BA = 100 SQ. FT. FROM 7 PLOTS. SCATTERED WOLF HM AND BASSWOOD WITH DEFECT - FORKS AND SWEEP COMMON.</p> <p><u>Comments:</u> CONSIDER THESE AS A SEED SOURCE.</p> <p><u>Next Steps:</u></p>									
12	52033012_sm all-Cut	30.2	4110 - Sugar Maple Association	High Density Log	85	Harvest	Group Selection	Sugar Maple Association	Cmpt. Review Proposal
<p><u>Prescription</u> OVERALL HARVEST OBJECTIVES SHOULD FOCUS ON ESTABLISHING CLEAN REGENERATION GAPS. THESE SHOULD RANGE IN</p> <p><u>Specs:</u> SIZE FROM 100 TO 200 FEET IN DIAMETER. MARK CONNECTORS BETWEEN THESE GAPS WITH A TREE LENGTH HARVEST IN MIND. THE REMAINDER OF POOR QUALITY AREAS SHOULD BE LEFT UNMARKED. TARGET APPROXIMATELY 20% OF THE TOTAL STAND AREA IN GAPS.</p> <p><u>Other</u> BA = 120 SQ. FT. FROM 4 PLOTS. SCATTERED WOLF HM AND BASSWOOD WITH DEFECT - FORKS AND SWEEP ARE COMMON.</p> <p><u>Comments:</u> CONSIDER THESE AS A SEED SOURCE.</p> <p><u>Next Steps:</u></p>									



Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
16	52033016-Cut	23.6	4110 - Sugar Maple Association	High Density Log	85	Harvest	Single Tree Selection	Sugar Maple Association	Cmpt. Review Proposal
<u>Prescription:</u> MARK STAND TO 80 SQ. FT. RESIDUAL. FOCUS EFFORTS ON CROP TREE RELEASE AND CREATING AND CLEANING <u>Specs:</u> REGENERATION GAPS. GAP SIZE SHOULD RANGE FROM 30 TO 100 FEET IN DIAMETER. FOCUS REGEN GAPS IN AREAS WHERE RESIDUAL QUALITY IS LOWEST. PROTECT AREAS OF THICK PURE MAPLE REGENERATION. <u>Other Comments:</u> BA = 120 SQ. FT. FROM 3 PLOTS. <u>Next Steps:</u>									
20	52033020-Cut	25.3	42110 - Planted Red Pine	High Density Log	47	Harvest	Clearcut	Sugar Maple Association	Cmpt. Review Proposal
<u>Prescription:</u> FINAL HARVEST IRREGULAR SHAPED RED PINE PLANTATION AND ALLOW TO CONVERT TO HARDWOOD. <u>Specs:</u> <u>Other Comments:</u> <u>Next Steps:</u>									
24	52033024_sm all-Cut	19.2	4110 - Sugar Maple Association	High Density Log	80	Harvest	Group Selection	Sugar Maple Association	Cmpt. Review Proposal
<u>Prescription:</u> OVERALL HARVEST OBJECTIVES SHOULD FOCUS ON ESTABLISHING CLEAN REGENERATION GAPS. REGEN GAPS SHOULD <u>Specs:</u> RANGE IN SIZE FROM 100 TO 200 FEET IN DIAMETER. MARK CONNECTORS BETWEEN THESE GAPS WITH A TREE LENGTH HARVEST IN MIND. THE REMAINDER OF POOR QUALITY AREAS SHOULD BE LEFT UNMARKED. TARGET APPROXIMATELY 20% OF THE TOTAL STAND AREA IN GAPS. <u>Other Comments:</u> BA = 120 SQ. FT. FROM 4 PLOTS. SCATTERED OVERSTORY WOLF HM AND BASSWOOD WITH DEFECT - FORKS, SWEEP AND HOLES COMMON. CONSIDER THESE AS A SEED SOURCE. <u>Next Steps:</u>									
25	52033025-Cut	19.3	4110 - Sugar Maple Association	High Density Log	75	Harvest	Group Selection	Sugar Maple Association	Cmpt. Review Proposal
<u>Prescription:</u> OVERALL HARVEST OBJECTIVES SHOULD FOCUS ON ESTABLISHING REGENERATION GAPS. THESE SHOULD RANGE IN SIZE <u>Specs:</u> FROM 100 TO 200 FEET IN DIAMETER. MARK CONNECTORS BETWEEN THESE GAPS WITH TREE LENGTH HARVEST IN MIND. THE REMAINDER OF AREAS SHOULD BE LEFT UNMARKED. TARGET APPROXIMATELY 20% OF THE TOTAL STAND AREA IN GAPS. <u>Other Comments:</u> AREA WAS ADDED AT PRE-REVIEW. <u>Next Steps:</u>									
29	52033029-Cut	6.6	4110 - Sugar Maple Association	Medium Density Pole	40	Harvest	Clearcut	Mixed Upland Shrub	Cmpt. Review Proposal
<u>Prescription:</u> CLEARCUT AREA FOR HABITAT DEVELOPMENT. LEAVE JUNE BERRY AND HAWTHORNE. DO NOT USE AS A LANDING FOR <u>Specs:</u> ADJACENT HARVESTING OPERATIONS. <u>Other Comments:</u> ADDED AT PRE-REVIEW. <u>Next Steps:</u>									



Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
32	52033032-Cut	26.2	42110 - Planted Red Pine	High Density Log	46	Harvest	Clearcut	Planted Red Pine	Cmpt. Review Proposal

Prescription: FINAL HARVEST RED PINE PLANTATION AND REPLANT.

Specs:

Other

Comments:

Next Steps: TRENCH, PLANT RED PINE AND HERBICIDE TO ELIMINATE HARDWOOD COMPETITION.

33	52033033_sm all-Cut	9.1	4119 - Mixed Northern Hardwoods	High Density Log	75	Harvest	Clearcut	Planted Red Pine	Cmpt. Review Proposal
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Prescription: FINAL HARVEST HARDWOOD STAND TO SQUARE OFF ADJACENT RED PINE FINAL HARVEST. CONVERT TO RED PINE.

Specs:

Other

Comments:

Next Steps: TRENCH, PLANT RED PINE AND HERBICIDE TO ELIMINATE HARDWOOD COMPETITION.

40	52033040-Cut	105.4	4110 - Sugar Maple Association	High Density Log	75	Harvest	Group Selection	Sugar Maple Association	Cmpt. Review Proposal
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Prescription: OVERALL HARVEST OBJECTIVES SHOULD FOCUS ON ESTABLISHING CLEAN REGENERATION GAPS. THESE SHOULD RANGE IN SIZE FROM 100 TO 200 FEET IN DIAMETER. MARK CONNECTORS BETWEEN THESE GAPS WITH A TREE LENGTH HARVEST IN MIND. THE REMAINDER OF POOR QUALITY AREAS SHOULD BE LEFT UNMARKED. TARGET APPROXIMATELY 20% OF THE TOTAL STAND AREA IN GAPS.

Other Comments: BA = 90 SQ. FT. FROM 8 PLOTS. SCATTERED WOLF HM WITH SWEEP AND/OR FORKS COMMON. CONSIDER THESE AS A SEED SOURCE.

Next

Steps:

**Total Treatment  
Acreage Proposed: 571.9**



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Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
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Prescription  
Specs:

Other  
Comment:

Next  
Steps:

Limiting Factor and No  
Treatment Reason

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**Total Treatment  
Acreage Proposed: 0**

Stand	Gaylord Mgt. Unit			5 – Forested Stands		Compartment: 033	General Comments:
	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Inventory Method: IFMAP	
2	4110 - Sugar Maple Association	High Density Log	10.6	80	111-140		MOSTLY ROLLING HILLS - SOME STEEP. DECENT CROP TREES. MOSTLY SMALL LOGS WITH LOTS OF PULP. SUPPRESSED 2 - 4" DIAM HM COMMON. POSTED PRIVATE ON STATE LAND. HM SI = 65.
4	4110 - Sugar Maple Association	High Density Log	201.6	80	111-140		DECENT HM. MOSTLY ROLLING HILLS - SOME STEEP. LOTS OF SUPPRESSED HM 2 - 5" DIAMETER. IRONWOOD REGEN THICK IN AREAS. ASH IS BIG. VERY LITTLE BEECH OVERSTORY. LOTS OF GOOD CROP TREES. SOME POCKETS OF HM REGEN. NO CLEAN REGEN GAPS. THINNED 1994. HM SI = 65.
8	4110 - Sugar Maple Association	High Density Log	282.1	80	81-110		MOSTLY DECENT QUALITY. ROLLING HILLS. AREAS OF LARGE DIAMETER/CROWN HM WITH SOME DEFECT (FORK/SWEEP). THINNED 2003. RUBUS COMMON - THICK IN AREAS. SCATTERED ELM. LACK OF CLEAN REGEN GAPS. LOTS OF 2 - 4" DIAM SUPPRESSED HM SAPS. HM SI = 60.
12	4110 - Sugar Maple Association	High Density Log	103.1	85	81-110		MOSTLY POOR QUALITY. SCATTERED WOLF HM AND BASSWOOD WITH DEFECT - FORKS AND SWEEP COMMON. FLAT. NO CLEAN REGEN HOLES. AREAS WITH SOME DECENT CROP TREES. LOADED WITH SUPPRESSED 2 - 4" DIAM HM SAPS. SOME YELLOW BIRCH, CHERRY AND ASH. HM SI = 55.
15	4110 - Sugar Maple Association	High Density Log	113.6	80	81-110		STAND THINNED 2003. RUBUS COMMON. LOTS OF WOLF OVERSTORY HM WITH FORKS AND SWEEP. ROLLING HILLS. LACK OF CLEAN REGEN HOLES. AREAS HEAVY TO NON MERCH HM SAPS 1 - 4" DIAM. SCATTERED ASH, IRONWOOD AND YELLOW BIRCH. HM SI = 60.
16	4110 - Sugar Maple Association	High Density Log	23.6	85	111-140		FLAT. AREAS WITH DECENT CROP TREES. SOME SCATTERED LARGE POOR QUALITY BASSWOOD. SOME DEAD ELM. SCATTERED AREAS OF THICK PURE HM REGEN. NO CLEAN REGEN HOLES. SUPPRESSED 2 - 4" DIAM HM SAPS COMMON. HM SI = 60.
20	42110 - Planted Red Pine	High Density Log	25.3	47	171-200		LIMBY RED PINE WITH THICK HM UNDERSTORY. PLANTED 1963. RP SI = 70.
21	4110 - Sugar Maple Association	High Density Log	42.8	80	51-80		STEEP SLOPES. MOSTLY POOR QUALITY. SCATTERED WOLF TREES WITH DEFECT - MOSTLY FORKS. AREAS HEAVY TO SUPPRESSED HM SAPS 2 - 4" DIAMETER. HM SI = 60.
24	4110 - Sugar Maple Association	High Density Log	138.2	80	81-110		SCATTERED OVERSTORY WOLF HM AND BASSWOOD WITH DEFECT - FORKS, SWEEP AND HOLES COMMON. SOME DEAD ELM. FLAT. LOTS OF 1 - 4" DIAM SUPPRESSED HM. SOME BT ASPEN AND CHERRY. MARKED LOG SALE 1977. LOTS OF OLD ROADS. LACK OF CLEAN REGEN HOLES. HM SI = 55.





	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
25	4110 - Sugar Maple Association	High Density Log	78.2	75	51-80	OVERALL POOR QUALITY WITH SCATTERED WOLF HM AND BASSWOOD. LARGE TREES WITH DEFECT (FORK AND SWEEP) COMMON. AREAS WITH DECENT HM POLES. LOTS OF SUPPRESSED HM SAPS 1 - 4" DIAM. FLAT. NO CLEAN REGEN HOLES. HM SI = 55.
26	4110 - Sugar Maple Association	High Density Log	24.6	80	1-50	SCATTERED LARGE DIAMETER WOLF HM WITH A WIDE RANGE OF DIAMETER HM UNDER. MODERATELY STEEP NORTH FACING SLOPE. HM SI = 55.
29	4110 - Sugar Maple Association	Medium Density Pole	2.3	40		UPLAND BRUSH. SCATTERED LARGE HM AND BASSWOOD WITH CHERRY AND WP UNDER. RP SI = 65.
31	4110 - Sugar Maple Association	High Density Log	78.6	90	81-110	AREAS WITH SCATTERED WOLF HM AND BASSWOOD WITH SWEEP AND FORKS COMMON. FLAT TO ROLLING HILLS. AREAS OF DECENT QUALITY CROP TREES. LOTS OF SUPPRESSED HM SAPS 2 - 4" DIAM. NO CLEAN REGEN HOLES. PART OF STAND THINNED 1990. HM SI = 60.
32	42110 - Planted Red Pine	High Density Log	26.2	46	141-170	LIMBY RED PINE. FORKS COMMON WITH SOME PORKY DAMAGE. FLAT. RANGE OF WELL STOCKED TO SPARSE. POCKETS OF MATURE HARDWOOD. VERY THICK HM SAPS. PLANTING RECORDS SHOW 60% SURVIVAL. RP SI = 65.
33	4119 - Mixed Northern Hardwoods	High Density Log	257.9	75	51-80	THINNED 2004. FLAT. POOR QUALITY HARDWOOD. AREAS WITH SOME DECENT HM POLES. DEAD AND/OR DYING ELM COMMON. WOLF HM, BASSWOOD AND IRONWOOD WITH DEFECT. SOME SCATTERED REGEN HOLES WITH RUBUS. UNCUT ORANGE MARKED TREES. LOTS OF SUPPRESSED 2 - 4" DIAM HM SAPS.
34	4110 - Sugar Maple Association	High Density Log	39.0	90	111-140	MOSTLY STEEP SLOPES AND ROLLING HILLS. SCATTERED WOLF TREES WITH DEFECT - MOSTLY FORKS. AREAS OF POOR QUALITY. SOME SCATTERED ELM. LOTS OF SUPPRESSED HM SAPS 2 - 4" DIAM. HM SI = 60.
39	6131 - Hemlock, White Pine, Maple, Birch	High Density Log	1.6	120	1-50	STEEP SLOPES ALONG 5 FT. WIDE BOYNE RIVER.
40	4110 - Sugar Maple Association	High Density Log	105.4	75	81-110	MOSTLY POOR QUALITY. SCATTERED WOLF HM WITH SWEEP AND/OR FORKS COMMON. A FEW AREAS HAVE DECENT HM POLES. FLAT. ROCK ELM COMMON. SOME SCATTERED CHERRY AND HEMLOCK. SOME DEAD AND/OR DYING ELM. HEAVY TO 1 - 4" DIAM SUPPRESSED HM. HM SI = 55.
41	6121 - Tamarack	Low Density Sapling	1.0	75		LOW WET DEPRESSION - BOWL. TAMARACK SPARSE. MOST TREES ON NORTH END. UNIFORM SCATTERED TAMARACK SAPS. TAMARACK SI = 40.
42	4119 - Mixed Northern Hardwoods	High Density Log	86.7	80	51-80	POOR QUALITY. SCATTERED WOLF OVERSTORY WITH FORK AND SWEEP COMMON. ROLLING HILLS TO STEEP SLOPES. AREAS HEAVY TO 1 - 4" DIAM HM SAPS. HM SI = 55.

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Gaylord Mgt. Unit

## 5 – Forested Stands

Inventory Method: IFMAP

Compartment: 033

Year of Entry: 2012



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
48	4110 - Sugar Maple Association	High Density Log	35.5	65	81-110	THINNED 1995. SOME ELM AND BEECH. WEST SLOPE ROLLING TO STEEP IN AREAS. NICE HDWD. LOTS OF 1 - 5" DIAM SUPPRESSED HM SAPS. SCATTERED BEECH SEEDLINGS. NO CLEAN REGEN GAPS. HM SI = 68.
49	4110 - Sugar Maple Association	High Density Log	89.5	80	81-110	SCATTERED LARGE TREES WITH DEFECT COMMON. DECENT QUALITY PULP AND SMALL LOG CROP TREES. MOSTLY FLAT WITH SOME ROLLING HILLS. LOTS OF SUPPRESSED 1 - 5" DIAM HM SAPS. SOME DYING ELM. A FEW SCATTERED IRONWOOD. NO CLEAN REGEN GAPS. PART OF STAND THINNED 1990. HM SI = 65.
50	4110 - Sugar Maple Association	High Density Log	61.7	65	81-110	THINNED 1995. SOME SCATTERED ASH. NICE HARDWOOD ON FLAT TO ROLLING HILLS. FORKS COMMON. HEAVY TO SUPPRESSED HM SAPS 1 - 4" DIAM. 5 FT TALL HM REGEN PATCHY BUT THICK IN AREAS. NO CLEAN REGEN GAPS. HM SI = 68.



Stand	Cover Type	Acres	Gen Cmts:
1	310 - Herbaceous Openland	1.1	GAS WELL - VALVE SYSTEM AND SHED.
3	310 - Herbaceous Openland	1.0	GAS WELL - VALVE SYSTEM WITH SHEDS. CLEAN.
5	310 - Herbaceous Openland	1.1	GAS WELL - VALVE SYSTEM. CLEAN WITH SOME RUBUS.
6	310 - Herbaceous Openland	1.0	GRASS OPENING. ROLLING HILLS - SOME KNAPWEED, SCATTERED BASSWOOD AND CHERRY.
7	310 - Herbaceous Openland	1.0	GAS WELL - VALVE SYSTEM. CLEAN.
9	310 - Herbaceous Openland	2.0	GAS WELL - VALVE SYSTEM. ROLLING HILLS.
10	310 - Herbaceous Openland	2.5	GAS WELL - VALVE SYSTEM. CLEAN.
11	310 - Herbaceous Openland	1.0	GAS WELL - VALVE SYSTEM. KNAPWEED.
13	310 - Herbaceous Openland	1.1	GAS WELL - VALVE SYSTEM. CLEAN.
14	310 - Herbaceous Openland	1.2	GRASS OPENING. CLEAN.
17	310 - Herbaceous Openland	8.9	GRASS OPENING - SCATTERED CHERRY AND ELM. NICE - MOSTLY CLEAN OPENING.
18	310 - Herbaceous Openland	1.0	GAS WELL - VALVE SYSTEM. CLEAN.
19	310 - Herbaceous Openland	1.0	GAS WELL - VALVE SYSTEM. CLEAN.
22	310 - Herbaceous Openland	1.0	GAS WELL - VALVE SYSTEM. CLEAN.
23	310 - Herbaceous Openland	1.0	GAS WELL - VALVE SYSTEM. CLEAN.
27	11 - Low Intensity Urban	3.8	CENTRAL PROCESSING FACILITY. 3 COMPRESSOR BUILDINGS.
28	310 - Herbaceous Openland	1.1	GAS WELL - VALVE SYSTEM. CLEAN.
30	310 - Herbaceous Openland	1.3	GAS WELL - VALVE SYSTEM. CLEAN.



Stand	Cover Type	Acres	Gen Cmts:
35	310 - Herbaceous Openland	1.0	GAS WELL - VALVE SYSTEM. CLEAN.
36	310 - Herbaceous Openland	1.0	GAS WELL - VALVE SYSTEM. CLEAN.
37	11 - Low Intensity Urban	1.4	ACTIVE RAILROAD GRADE. STEEP SLOPES.
38	310 - Herbaceous Openland	1.0	GRASS OPENING - CLEARED PAD NO WELL. CLEAN.
43	310 - Herbaceous Openland	1.0	GRASS OPENING - RUBUS, CHERRY, MAPLE AND HAWTHORNE PRESENT.
44	310 - Herbaceous Openland	1.1	GAS WELL - VALVE SYSTEM.
45	310 - Herbaceous Openland	1.1	GAS WELL - VALVE SYSTEM. KNAPWEED.
46	310 - Herbaceous Openland	1.1	GAS WELL - VALVE SYSTEM AND SHED. CLEAN.
47	310 - Herbaceous Openland	1.0	GAS WELL - VALVE SYSTEM. KNAPWEED.
51	310 - Herbaceous Openland	1.2	GAS WELL - VALVE SYSTEM WITH SHED. CLEAN.
52	310 - Herbaceous Openland	14.6	CLEAN OPENING. FARM ALL AROUND. PLANT TO RED PINE.



**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.

Inventory Method: IFMAP

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.