



# COMPARTMENT REVIEW PRESENTATION

## GAYLORD FOREST MANAGEMENT UNIT

**COMPARTMENT: 111**

**ENTRY YEAR: 2013**

**ACREAGE: 3,713**

**COUNTY: Emmet**

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**Revision Date:** 05/19/2011

**Stand Examiner:** Don Stacks

**Legal Description:** T36N-R05W, Sections 4-9, 16-18

**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:** Tawas peat on flat, poorly drained soil in the east ½ of the compartment, Blue Lakes loamy sand on rolling hills in the west ½ of the compartment.

**Ownership Patterns, Development, and Land Use in and Around the Compartment:** The compartment consists of mostly contiguous state ownership. Several private residences and small farms are located in and adjacent to the compartment.

**Unique, Natural Features:** Old red-shouldered hawk\* nest on western side of section 6, also surrounding compartment (east and southeast of section 16, north of 17). The potential for unique species of flora and fauna exists and noted in the MNFI compartment notes.

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

**Special Management Designations or Considerations:** Remnant buildings of Camp Pellston exist on Larks Lake Rd. The buildings from the main portion of the prison have been recently demolished and removed. The perimeter fence is scheduled to be removed in the near future.

**Watershed and Fisheries Considerations:** This compartment is within the W Br Maple River watershed. Much of the watershed is within the Pleasantview Swamp, which is the headwaters of the W Br Maple River. Timber sales in the wetland areas should be limited to winter-only cuts to avoid rutting and sedimentation. Also, a minimum no-clear cut buffer of 100 feet should be maintained adjacent to streams.

**Wildlife Habitat Considerations:** This compartment contains mostly upland habitat with a large lowland complex on the east half of the area. This lowland area is utilized by a variety of species including black bears, white-tailed deer, furbearers and various amphibians. The upland area consists of a mix of upland hardwoods, aspen and red pine. Stand 3 is going to be treated to provide structural diversity within the stand and the compartment. Stands 10, 31, 43, and 72 are going to be clear cut to provide early successional habitat for white-tailed deer, wild turkey, grouse, woodcock and various song birds.

**Mineral Resource and Development Concerns and/or Restrictions:** Surface sediments consist of coarse textured glacial till (highlands in the west), peat and muck (swamp) and glacial outwash sand and gravel and postglacial alluvium. The glacial drift thickness varies between 400 and 1000 feet, thickening to the west. The Devonian Traverse Group, Bell Shale, Dundee Limestone and Detroit River Group subcrop below the glacial drift. These formations are used for cement and stone elsewhere in the State. The nearest gravel pit is located in the NW of Section 22, southeast of Pleasant View. The glacial till deposits, uplands, have gravel potential. The nearest oil and gas production, the Antrim Shale gas play, is located 24 miles to the south. The Collingwood Formation may have oil and gas potential in the area. Most of the Compartment was leased recently.

**Vehicle Access:** Robinson Rd. and Palmer Rd. run along the north boundary of the compartment. Stutsmanville Rd. runs along the south boundary, and Larks Lake Rd. runs through the center of the compartment, from north to south. There are also a few seasonal county roads and lesser quality forest trail roads available.

**Survey Needs:** Survey work may eventually be required along several areas of private ownership.

**Recreational Facilities and Opportunities:** Segments of the designated snowmobile trail and the North Country Pathway run through the compartment. Various outdoor recreational opportunities exist within the compartment.

**Fire Protection:** This compartment is composed of mostly lower risk fuel types. The Pellston DNR Field Office and VFD are located about seven miles to the east of the compartment, Harbor Springs VFD is located about eight miles to the south, and Readmond/Friendship VFD is located about seven miles to the west.

#### **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**

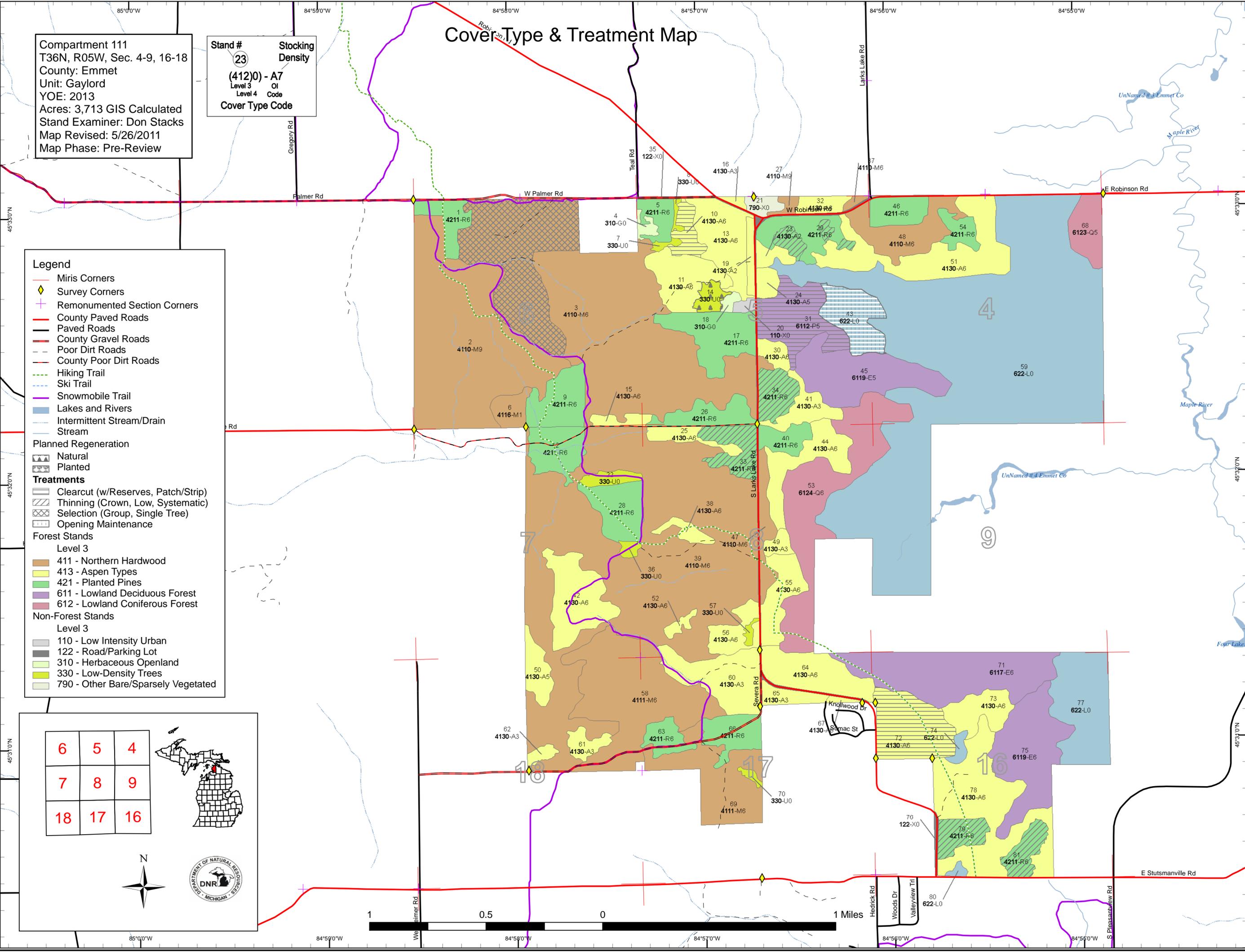
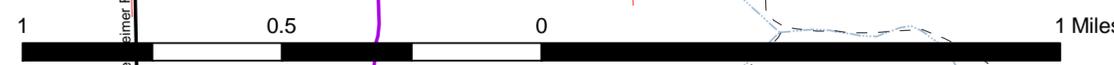
# Cover Type & Treatment Map

Compartment 111  
 T36N, R05W, Sec. 4-9, 16-18  
 County: Emmet  
 Unit: Gaylord  
 YOE: 2013  
 Acres: 3,713 GIS Calculated  
 Stand Examiner: Don Stacks  
 Map Revised: 5/26/2011  
 Map Phase: Pre-Review

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

- Legend**
- Miris Corners
  - ◆ Survey Corners
  - ⊕ Remonumented Section Corners
  - County Paved Roads
  - Paved Roads
  - County Gravel Roads
  - - - Poor Dirt Roads
  - - - County Poor Dirt Roads
  - - - Hiking Trail
  - - - Ski Trail
  - - - Snowmobile Trail
  - Lakes and Rivers
  - - - Intermittent Stream/Drain
  - - - Stream
- Planned Regeneration**
- ▨ Natural
  - ▨ Planted
- Treatments**
- ▨ Clearcut (w/Reserves, Patch/Strip)
  - ▨ Thinning (Crown, Low, Systematic)
  - ▨ Selection (Group, Single Tree)
  - ▨ Opening Maintenance
- Forest Stands**
- Level 3
- 411 - Northern Hardwood
  - 413 - Aspen Types
  - 421 - Planted Pines
  - 611 - Lowland Deciduous Forest
  - 612 - Lowland Coniferous Forest
- Non-Forest Stands**
- Level 3
- 110 - Low Intensity Urban
  - 122 - Road/Parking Lot
  - 310 - Herbaceous Openland
  - 330 - Low-Density Trees
  - 790 - Other Bare/Sparsely Vegetated

6	5	4
7	8	9
18	17	16



# Stand Boundary Map

Compartment 111  
 T36N, R05W, Sec. 4-9, 16-18  
 County: Emmet  
 Unit: Gaylord  
 YOE: 2013  
 Acres: 3,713 GIS Calculated  
 Stand Examiner: Don Stacks  
 Map Revised: 5/26/2011  
 Map Phase: Pre-Review

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

## Legend

- Miris Corners
- Survey Corners
- Remonumented Section Corners
- County Paved Roads
- Paved Roads
- County Gravel Roads
- Poor Dirt Roads
- County Poor Dirt Roads
- Intermittent Stream/Drain
- Stream
- Snowmobile Trail
- Hiking Trail
- Ski Trail
- Stand Boundaries

## Forest Stands

### Level 3

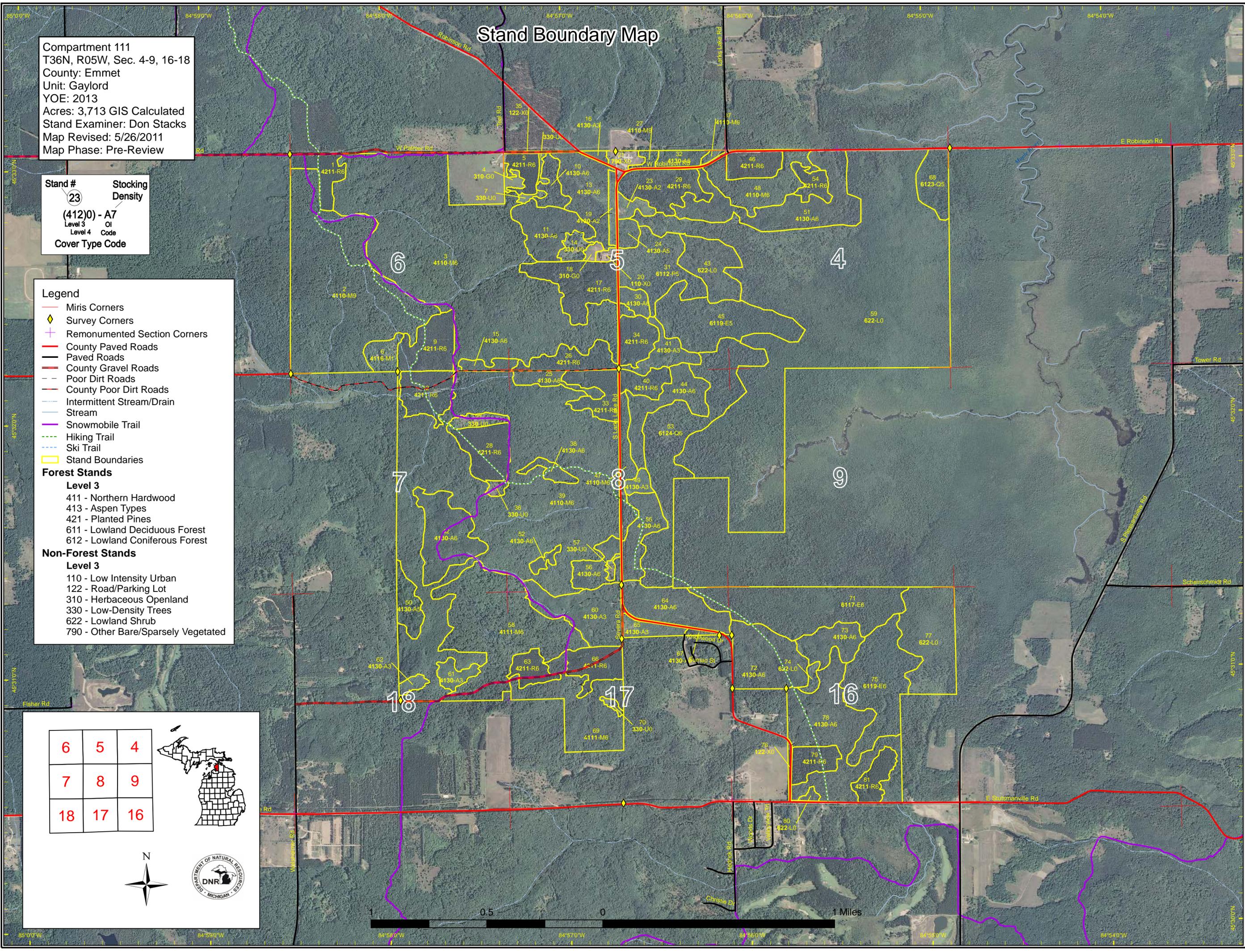
- 411 - Northern Hardwood
- 413 - Aspen Types
- 421 - Planted Pines
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest

## Non-Forest Stands

### Level 3

- 110 - Low Intensity Urban
- 122 - Road/Parking Lot
- 310 - Herbaceous Openland
- 330 - Low-Density Trees
- 622 - Lowland Shrub
- 790 - Other Bare/Sparsely Vegetated

6	5	4
7	8	9
18	17	16

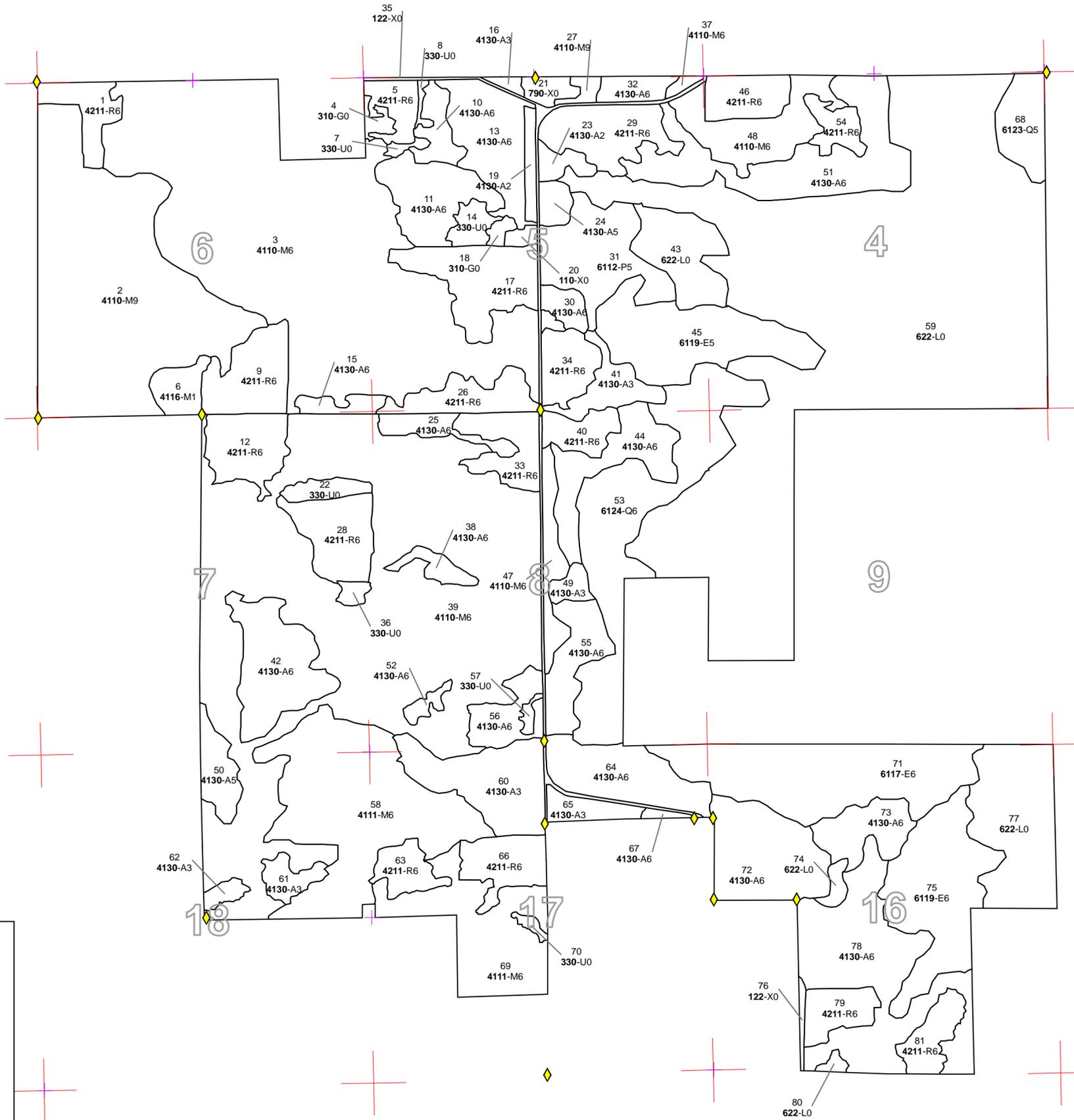


# Dedicated & Proposed Special Conservation Area Map

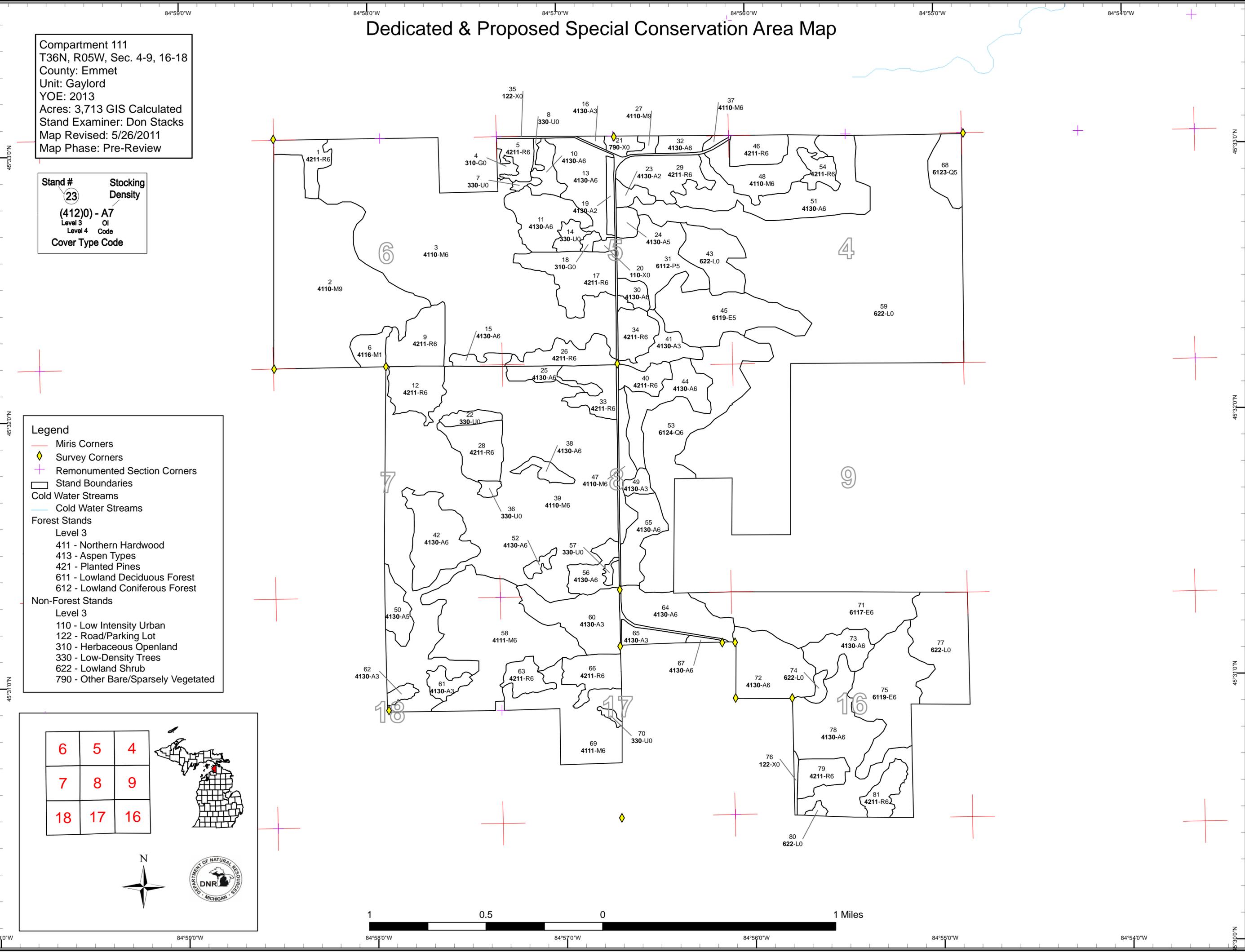
Compartment 111  
 T36N, R05W, Sec. 4-9, 16-18  
 County: Emmet  
 Unit: Gaylord  
 YOE: 2013  
 Acres: 3,713 GIS Calculated  
 Stand Examiner: Don Stacks  
 Map Revised: 5/26/2011  
 Map Phase: Pre-Review

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

- Legend**
- Miris Corners
  - ◆ Survey Corners
  - ✚ Remonumented Section Corners
  - ▭ Stand Boundaries
  - Cold Water Streams
  - Cold Water Streams
  - Forest Stands**
  - Level 3
  - 411 - Northern Hardwood
  - 413 - Aspen Types
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6	5	4
7	8	9
18	17	16



**Table 1 – Total Acres by Cover Type and Age Class**



	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
Bare/Sparsely Vegetated	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
Herbaceous Openland	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
Low-Density Trees	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30
Lowland Shrub	714	0	0	0	0	0	0	0	0	0	0	0	0	0	0	714
Urban	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25
<b>Total</b>	<b>782</b>	<b>0</b>	<b>782</b>													



## Table 2 – Proposed Treatment Summaries

**Gaylord Mgt. Unit**  
**Year of Entry 2013**

**Compartment 111**  
**Total Compartment Acres: 3713**

### Acres by Treatment Type

Commercial Harvest - 341	Site Prep - 0	Tree Planting - 0	Prescribed Burn - 0	Other - 0
Habitat Cut - 0	Opening Maintenance - 36	Tree Seeding - 0	Pesticide - 0	

### Cover Type by Harvest Method

	Clearcut	Selection	Seed Tree	Shelterwood	Thinning	Other - Specify	Total Acres
<b>Aspen</b>	69	0	0	0	0	0	<b>69</b>
<b>Lowland Aspen/Balsam Poplar</b>	52	0	0	0	0	0	<b>52</b>
<b>Northern Hardwood</b>	0	129	0	0	0	0	<b>129</b>
<b>Red Pine</b>	0	0	0	0	91	0	<b>91</b>
<b>Total</b>	<b>121</b>	<b>129</b>	<b>0</b>	<b>0</b>	<b>91</b>	<b>0</b>	<b>341</b>



Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
3	52111003- Select	128.5	4110 - Sugar Maple Association	High Density Pole	70	Harvest	Single Tree Selection	4110 - Sugar Maple Association	Cmpt. Review Proposal
<p><u>Prescription:</u> Prescribe a selection harvest on western 1/3 of stand this Y.O.E. Mark stand to reduce BA down to 75 - 80 sq. ft. Non- winter harvest operations because of snowmobile trail. Also, no harvest activity during barkslip.</p> <p><u>Other Comments:</u> Large stand of northern hardwoods on rolling hills, some of which are steep and inoperable. North Country Pathway and designated snowmobile trail runs through stand. Eastern 2/3 of stand consist of mostly smaller diameter poletimber and lower BA's. Western 1/3 has larger diameters and is stocked heavier. The whole stand is dominated by good quality sugar maple.</p> <p><u>Next Steps:</u></p>									
10	52111010- CCut	13.5	4130 - Aspen	High Density Pole	65	Harvest	Clearcut	4130 - Aspen	Cmpt. Review Proposal
<p><u>Prescription:</u> Quaking aspen is starting to show loss of vigor, with some mortality present. Prescribe final harvest this year of entry. Mark and leave one or two black cherry trees every one /two acres. Stand is relatively small. No retention islands will be necessary in this stand.</p> <p><u>Other Comments:</u> Stand consists of a slightly sparse aspen overstory, with scattered black cherry, red maple, and sugar maple adjacent to Palmer Rd. Stunted aspen is found in understory along with areas of more dense hardwood regen.</p> <p><u>Next Steps:</u></p>									
29	52111029- RPTHIN	11.9	42111 - Planted Red Pine, Mixed Deciduous	High Density Pole	55	Harvest	Crown Thinning	42110 - Planted Red Pine	Cmpt. Review Proposal
<p><u>Prescription:</u> The stand has three areas of dense red pine growth with high BA. These areas need to be marked to restore BA down to about 120 sq. ft.</p> <p><u>Other Comments:</u> Red pine plantation, mostly poletimber with a few scattered sawlogs present. Most of the stand has sparse red pine growth, possibly from seedling mortality. These areas filled with with aspen and hardwood.</p> <p><u>Next Steps:</u></p>									
31	52111031- CCRESERVE	52.5	6112 - Lowland Aspen	Medium Density Pole	70	Harvest	Clearcut with Reserves	4130 - Aspen	Cmpt. Review Proposal
<p><u>Prescription:</u> Final harvest this Y.O.E. before stand suffers more mortality and loss of vigor. Leave one or two retention islands unharvested. Two small, younger adjacent aspen stands will also be left at this time. Poorly drained soil can be found within stand. Prescribe a winter only harvest to protect soil from excess rutting and to possibly improve the quality of the resulting aspen regen.</p> <p><u>Other Comments:</u> Stand consists of a lesser stocked, lower quality stand of quaking aspen poletimber, with a few scattered balsam fir, black spruce, and paper birch. Adjacent to Larks Lake Rd., across from old Camp Pellston work shop.</p> <p><u>Next Steps:</u></p>									
33	52111033- RPTHIN	24.4	42110 - Planted Red Pine	High Density Pole	55	Harvest	Crown Thinning	42110 - Planted Red Pine	Cmpt. Review Proposal
<p><u>Prescription:</u> Prescribe a marked thinning this entry year to restore BA back about 120 sq. ft.</p> <p><u>Other Comments:</u> Red pine plantation in transition from poletimber to sawtimber. Adjacent to Larks Lake Rd. Very dense hardwood understory. Last thinned in 1995.</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
34	52111034-RPTHIN	20.6	42110 - Planted Red Pine	High Density Pole	55	Harvest	Crown Thinning	42110 - Planted Red Pine	Cmpt. Review Proposal

Prescription Prescribe a marked thinning this Y.O.E. to restore BA back to about 120sq. ft.  
Specs:

Other Red pine plantation, in transition from poletimber to sawtimber, adjacent to Larks Lake Rd. Row-thinned in 1993.  
Comments:

Next  
Steps:

72	52111072-CCRES	55.0	4130 - Aspen	High Density Pole	45	Harvest	Clearcut with Reserves	4130 - Aspen	Cmpt. Review Proposal
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Prescription Smaller diameters, slightly young in age. Wildlife Division has requested to prescribe a final harvest, with two or three retention islands, this Y.O.E.  
Specs:

Other Fairly well-stocked aspen poletimber, still slightly young with mostly smaller diameters. Adjacent to Larks Lake Rd. and private residences.  
Comments: North Country Pathway runs through this stand.

Next  
Steps:

79	52111079-RPTHIN	17.6	42110 - Planted Red Pine	High Density Pole	54	Harvest	Crown Thinning	42110 - Planted Red Pine	Cmpt. Review Proposal
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Prescription Prescribe a marked thinning this Y.O.E. to restore red pine BA back to 120 sq. ft. Concentrate marking on present larger diameter trees. Add specs to protect North Country Pathway during harvest operations.  
Specs:

Other Red pine poletimber in transition to sawtimber. Row thinned in 1993. North Country Pathway runs through stand. Adjacent to Larks lake Rd,  
Comments: Scattered aspen/hardwood poletimber scattered throughout stand.

Next  
Steps:

81	52111081-RPTHIN	16.9	42110 - Planted Red Pine	High Density Pole	54	Harvest	Crown Thinning	42110 - Planted Red Pine	Cmpt. Review Proposal
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Prescription Prescribe a marked thinning this Y.O.E. to restore BA back to about 120 sq. ft. Thin this stand with the red pine stand located just to the west.  
Specs:

Other Red pine plantation, mostly poletimber with a few scattered sawlog trees. Row thinned in 1993. Adjacent to Stutsmanville Rd.  
Comments:

Next  
Steps:

43	NF_52111043-NonFor	35.6	Non-Forested		0	Non-Forest Management	Brush Cutting	6229 - Mixed lowland shrub	Cmpt. Review Proposal
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Prescription Non-commercial treatment. Machine or hand-fell lowland shrubs and aspen/hardwood saps/poletimber. Winter treatment because of very wet soil.  
Specs:

Other Stand consists of lowland shrubs and scattered, sparse lowland aspen/hardwoods.  
Comments:

Next Monitor regen. Acceptable regen a mix of lowland shrubs and lowland aspen/hardwood.  
Steps:

**Total Treatment  
Acreage Proposed: 376.5**

**Table 4 -- Treatments Prescribed with a Limiting Factor**



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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

**Total Treatment Acreage Proposed: 0**

Out of YOE -- Treatments  
Prescribed with No Limiting Factor

Year of Entry: 2013



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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  
Comments:

Next  
Steps:

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**Total Treatment  
Acreage Proposed: 0**

S  
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Gaylord Mgt. Unit

5 – Forested Stands

Compartment: 111  
Year of Entry: 2013



Level 4  
Cover Type

Size  
Density

Acres

Stand  
Age

BA  
Range

General  
Comments:

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Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
4	3102 - Grass	4.0	No	Unspecified	Grass stand adjacent to private residence.
7	3301 - Low Density Deciduous Tree	2.3	No	Unspecified	Encroaching hardwood/aspen saps and poletimber into grass opening.
8	3301 - Low Density Deciduous Tree	1.9	No	Unspecified	Sparse hardwood/aspen trees scattered throughout grass stand. Adjacent to Palmer Rd. and young red pine stand.
14	3303 - Mixed Low Density Trees	8.7	Natural Regen	Mixed Upland Deciduous	
18	3102 - Grass	3.1	No	Unspecified	Grassy area adjacent to abandoned guard workshop of former Camp Pellston.
20	11 - Low Intensity Urban	3.2	Yes	Unspecified	Guard workshop area of Camp Pellston. Parking lot and unoccupied buildings.
21	790 - Other Bare/Sparsely Vegetate	7.3	Yes	Unspecified	Old Camp Pellston prison camp. Demolition started in 2010.
22	3303 - Mixed Low Density Trees	8.6	No	Unspecified	Grass opening with scattered hardwood/aspen, red pine saps encroaching into stand. Snowmobile trail runs through stand.
35	122 - Road/Parking Lot	18.8	N/A	Unspecified	Robinson and Larks Lake Rds.
36	3303 - Mixed Low Density Trees	3.6	No	Unspecified	Grass opening with encroaching hardwood/aspen, red pine saplings. Snowmobile trail runs through stand.
43	6229 - Mixed lowland shrub	35.6	No	Medium (NonForested)	Fairly dense tag alder and red osier dogwood with a few scattered quaking aspen, paper birch and black ash small diameter poletimber.
57	3301 - Low Density Deciduous Tree	2.3	No	Unspecified	Grass opening with sparse, scattered aspen/hardwood encroaching.
59	6220 - Alder/willow	602.2	No	Unspecified	Pleasantview swamp.
70	3301 - Low Density Deciduous Tree	2.2	No	Unspecified	Grass opening with scattered hardwood encroaching.
74	6220 - Alder/willow	4.5	No	Unspecified	Tag alder with a few scattered swamp hardwood species
76	122 - Road/Parking Lot	2.5	No	Unspecified	Larks Lake Rd.



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
77	6220 - Alder/willow	69.1	No	Unspecified	Pleasantview Swamp.
80	6220 - Alder/willow	2.3	No	Unspecified	Tag alder bog adjacent to Stutsmanville Rd.



**7 – PROPOSED SPECIAL CONSERVATION AREA\* (SCA) DETAILS**

\* This is a partial list of SCAs for this compartment. Not included are those areas identified under other Department initiatives (Natural Rivers, Deer Wintering Areas, etc.). Those will be identified in separate, future map and report products.

Stand	SCA Type	SCA Name	Acres	Comments



**8 – DEDICATED CONSERVATION AREA DETAILS**

\* This is a list of Dedicated Biodiversity Areas for this compartment along with a 1/4 mile buffer surrounding the compartment. Refer to Dedicated Conservation Area Map for areas that the below listed Conservation Areas are located.

ERA = Ecological Reference Area  
 HCVA = High Conservation Value Area  
 SCA = Special Conservation Area

Conservation Area	Type	Description
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.