



# Compartment Review Presentation

## Gwinn Forest Management Unit

Compartment 245

Entry Year 2015

Acreage: 1,282

County Marquette

Management Area: Chain Lakes Moraine

**Revision Date:** 08/06/2013

**Stand Examiner:** Theresa Sysol

**Legal Description:**

T45N R29W Section(s) 32, 33

**Identified Planning Goals:**

To maintain the health and sustainability of the forest, while providing for wildlife, fisheries, environmental and recreational needs. Area was historically a natural pine forest community, and overall management should be to perpetuate or increase these dry mesic conifers, in a non-plantation setting, as it becomes possible.

**Soil and topography:**

Ranges from level swamps and wetland drainages to rolling or only slightly hilly upland terrain. Primarily Sagola-Rubicon, Rubicon/Rubicon-Keweenaw sands upland with Carbondale and Tawas mucks lowland.

**Ownership Patterns, Development, and Land Use in and Around the Compartment:**

Rather large holdings of State lands are located to the north, east and south (in Dickinson Co.), with essentially private lands lying to the west and northwest. Both corporate forest lands and small private inholdings of nonindustrial private land make up the private landscape. The smaller private landholdings in the area are generally held for the recreational use of deer hunting as well as fishing for those located along the Michigamme River or Porterfield Lake. Land use is thus a mixture of both low key recreation and production of commercial forest products.

**Unique Natural Features:**

Potential for gray wolf, eagle, osprey, and great blue heron rookery. Potential for red-shouldered hawk and goshawk in aspen, red pine stands. Potential for red-disked alpine, frigga fritillary, and freija fritillary in bogs.

**Archeological, Historical, and Cultural Features:**

No Archeological, Historical, or Cultural Features known.

**Special Management Designations or Considerations:**

Chain Lakes Moraine Management Area.

**Watershed and Fisheries Considerations:**

60 Day Creek

**Wildlife Habitat Considerations:**

Compartment 245 is found within the Chain Lakes Management Area; which is a Disintegration Moraine in Southwestern Marquette County. The State Forest covers about 84,600 acres and is mostly contiguous. State Forest Lands are the major ownership in this vicinity. The dominant Natural Communities are dry mesic northern forests, poor conifer swamps, and mesic northern forests. Major forest cover types include Aspen, Mixed Lowland Conifer, and Jack Pine. In general, this area has a mid-range site quality. This management area provides multiple benefits to the public including forest products, dispersed recreational activities, and habitat for fish and wildlife species. Some of the most significant wildlife management issues in the management area are: mast (hard and soft); habitat fragmentation; mature forest conditions; mesic conifer; coarse woody debris; and retention or development of large living and dead standing trees (for cavities). Wildlife Division would like to increase the oak resource within this management area and to optimize acorn production. This management area represents approximately ¼ of the oak resource on WUP state forest. In addition to promoting mast crops another priority is to maintain or increase wildlife corridors especially along riparian corridors.

The following have been identified as featured species for the Chain Lakes Management Area: Black bear, Gray Jay, Pileated Woodpecker, Northern Goshawk, Red Crossbill. However, the featured species concept does not preclude the management for other wildlife species within a particular MA, rather it is simply intended to be as a tool to help prioritize or focus habitat management.

For lands purchased with Pittman–Robertson Act or Game and Fish funds, the primary objective of vegetative

management must be wildlife restoration.

### **Mineral Resource and Development Concerns and/or Restrictions**

Surface sediments consist of an end moraine of coarse-textured till. There is insufficient data to determine the glacial drift thickness. The Precambrian Archean Granite/Gneiss subcrops below the glacial drift. This rock could be used as dimension stone. A gravel pit is located two miles away, but potential should be good. The abandoned Republic iron mine is located ten miles to the north. Sections in the township were previously leased for metallic exploration, but none are currently leased. There is no economic oil and gas production in the UP.

### **Vehicle Access:**

From the west via M-95 to the Floodwood Road (which originates in Dickinson County), travel ~ 2.5 east along this seasonal poor quality gravel county road to the SW corner of the compartment. The Porterfield Lake Road, a State maintained poor sand road, bisects the compartment. Various other poor quality two-track roads can be found within. These roads receive only occasional maintenance, usually as a result of timber harvesting operations.

### **Survey Needs:**

None

### **Recreational Facilities and Opportunities:**

The Porterfield Lake Motorcycle trail exists through this and adjacent compartments. The trailhead parking lot facility is located within as well. In addition, a groomed State-sponsored snowmobile trail (Trail #5) utilizes the powerline right of way on the west edge of the compartment. Other activities include hunting, fishing, and berry picking.

### **Fire Protection:**

This compartment is adjacent to both the 581 and Floodwood Zone Dispatch area(s) which provide pre-planned dispatch of specific fire equipment from the Gwinn and Crystal Falls Management Units, dependent upon the severity of forecast burning conditions for a specific day. Areas of jack/red pine cover types with the encroachment of recreational seasonal dwellings have warranted this pre-planning. Response time will be more than 1 hour, as well as control efforts.

### **Additional Compartment Information:**

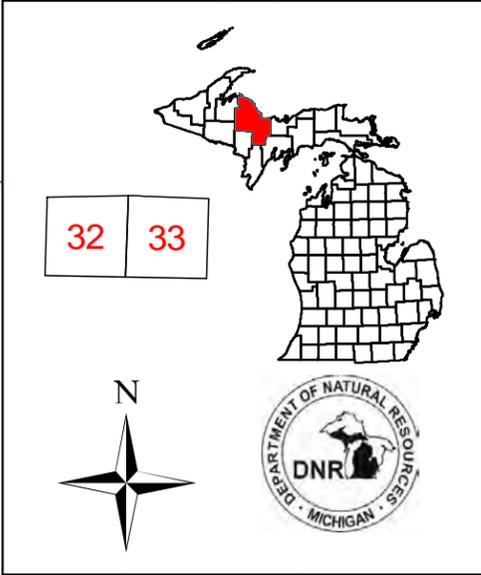
#### **The following reports from the Inventory are attached:**

- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

#### **The following information is displayed, where pertinent, on the attached compartment maps:**

- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Compartment: 245  
 T45N R29W Sec. 32, 33  
 County: Marquette  
 Unit: Gwinn  
 YOE: 2015  
 Acres: 1,282 GIS Calculated  
 Examiner: Theresa Sysol  
 Map Revised: 08/06/2013  
 Map Phase: Pre-Review



# Cover Type & Treatment Map

**Stand #**  
 23  
**Stocking Density**  
 (4120) - A7  
 Level 3 OI  
 Level 4 Code  
**Cover Type Code**

### Legend

- PLSS Corner
- Miris Corners
- Highway
- County Paved Roads
- Paved Roads
- County Gravel Roads
- Gravel Roads
- Poor Dirt Roads
- County Poor Dirt Roads
- Trail (Non-Recreation)
- Closed Roads
- Berms
- Powerline
- Mining
- Recreation
- Motorcycle Trails (DNR License)
- Snowmobile Trails
- Motorcycle (DNR Sticker)
- Snowmobile Trail
- Stream
- Intermittent Stream
- Lakes and Rivers
- State Forest Land

### Treatments

- Clearcut (w/Reserves, Patch/Strip)
- Shelter Wood (w/Reserves)
- Thinning (Crown, Low, Systematic)

### Forest Stands

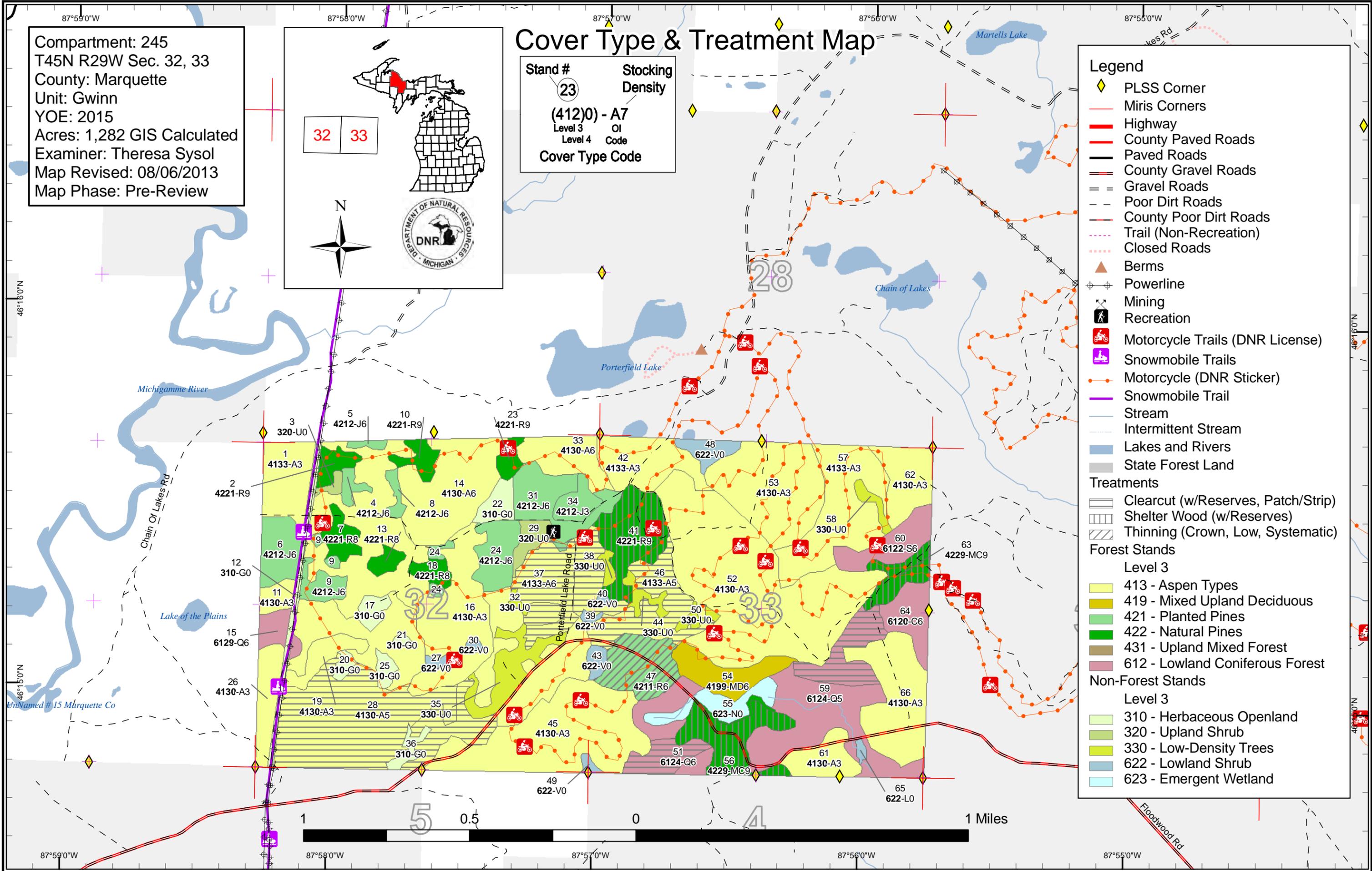
**Level 3**

- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 431 - Upland Mixed Forest
- 612 - Lowland Coniferous Forest

### Non-Forest Stands

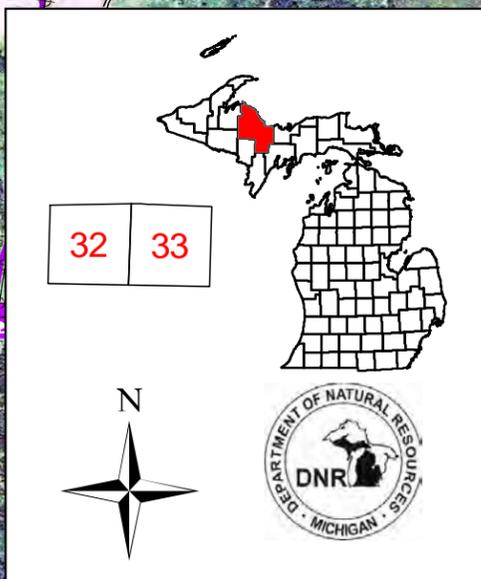
**Level 3**

- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 330 - Low-Density Trees
- 622 - Lowland Shrub
- 623 - Emergent Wetland



# Stand Boundary Map

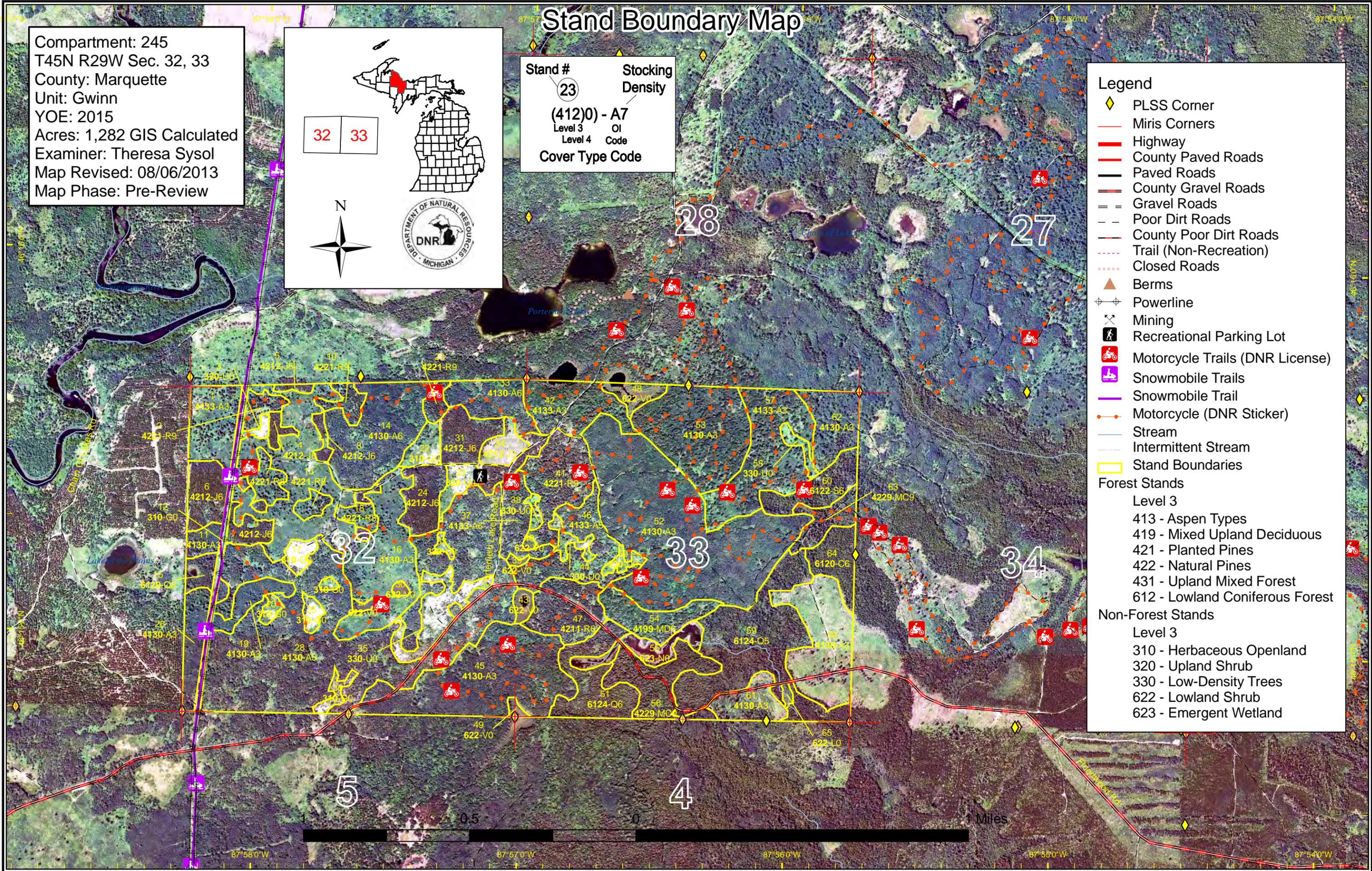
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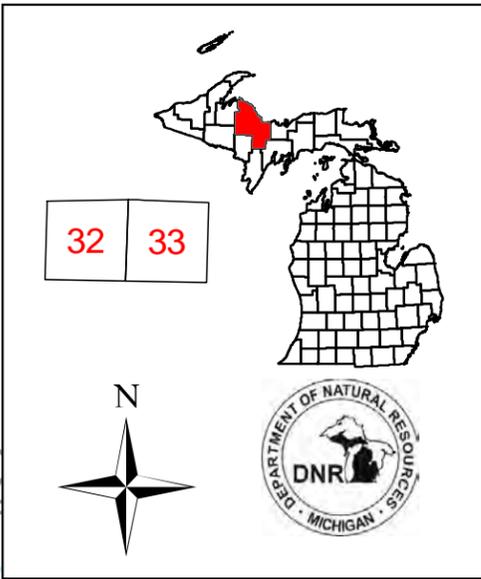
## Legend

- PLSS Corner
  - Miris Corners
  - Highway
  - County Paved Roads
  - Paved Roads
  - County Gravel Roads
  - Gravel Roads
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  - County Poor Dirt Roads
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  - Berms
  - Powerline
  - Mining
  - Recreational Parking Lot
  - Motorcycle Trails (DNR License)
  - Snowmobile Trails
  - Snowmobile Trail
  - Motorcycle (DNR Sticker)
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  - Intermittent Stream
  - Stand Boundaries
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# Special Conservation Areas & Site Conditions Map

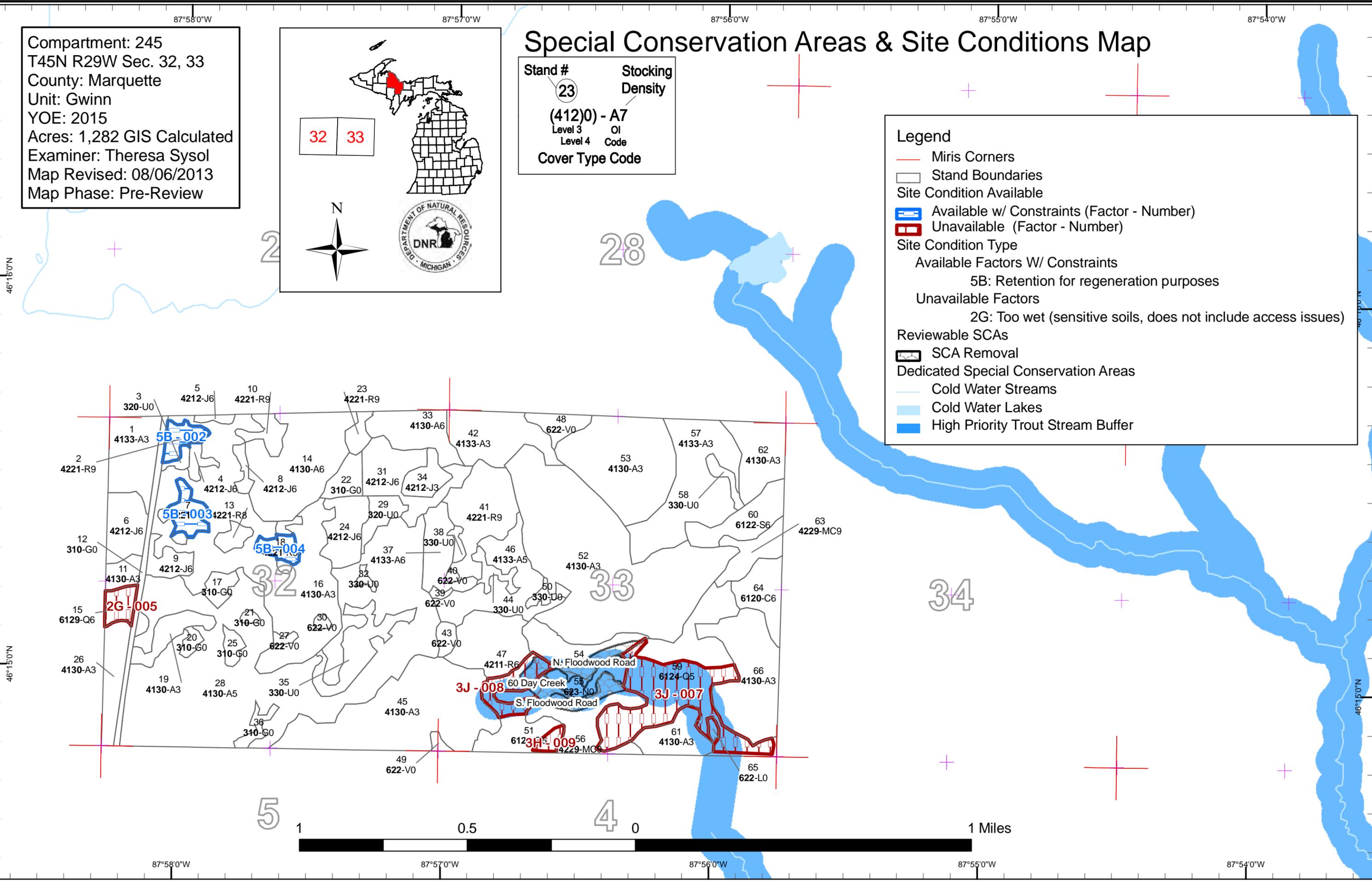
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**Stand #**  
 23  
**Stocking Density**  
 (4120) - A7  
 Level 3 OI  
 Level 4 Code  
**Cover Type Code**

**Legend**

- Miris Corners
- Stand Boundaries
- Site Condition Available
- Available w/ Constraints (Factor - Number)
- Unavailable (Factor - Number)
- Site Condition Type
  - Available Factors W/ Constraints
    - 5B: Retention for regeneration purposes
  - Unavailable Factors
    - 2G: Too wet (sensitive soils, does not include access issues)
- Reviewable SCAs
- SCA Removal
- Dedicated Special Conservation Areas
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer



Report 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	223	124	196	63	231	0	0	0	0	0	0	0	0	0	838
Bog	15	0	0	0	0	0	0	0	0	0	0	0	0	0	15
Cedar	0	0	0	0	0	0	0	0	14	0	0	0	0	0	14
Herbaceous Openland	32	0	0	0	0	0	0	0	0	0	0	0	0	0	32
Jack Pine	8	0	0	0	70	0	0	0	0	0	0	0	0	0	77
Low-Density Trees	30	0	0	0	0	0	0	0	0	0	0	0	0	0	30
Lowland Conifers	0	0	0	0	0	0	7	93	0	0	0	0	0	0	100
Lowland Shrub	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Lowland Spruce/Fir	0	0	0	0	0	0	16	0	0	0	0	0	0	0	16
Marsh	13	0	0	0	0	0	0	0	0	0	0	0	0	0	13
Mixed Upland Deciduous	0	0	0	0	0	0	0	18	0	0	0	0	0	0	18
Natural Mixed Pines	0	0	0	0	0	0	11	0	26	0	0	0	0	0	37
Red Pine	0	0	0	0	0	23	10	50	0	0	0	0	0	0	83
Upland Shrub	9	0	0	0	0	0	0	0	0	0	0	0	0	0	9
<b>Total</b>	<b>331</b>	<b>124</b>	<b>196</b>	<b>63</b>	<b>301</b>	<b>23</b>	<b>10</b>	<b>85</b>	<b>110</b>	<b>40</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1282</b>



## Report 2 – Proposed Treatment Summaries

**Gwinn Mgt. Unit**  
**Year of Entry 2015**

**Compartment 245**  
**Total Compartment Acres: 1,282**

### Acres by Treatment Type

Commercial Harvest - 277    Tree Planting - 56    Other - 0  
 Habitat Cut - 0    Opening Maintenance - 0

### Cover Type by Harvest Method

	<i>Clearcut</i>	<i>Selection</i>	<i>Seed Tree</i>	<i>Shelterwood</i>	<i>Thinning</i>	<i>Other - Specify</i>	<i>Total Acres</i>
<b>Aspen Types</b>	162	0	0	0	0	0	162
<b>Lowland Coniferous Forest</b>	30	0	0	0	0	0	30
<b>Natural Pines</b>	0	0	0	63	0	0	63
<b>Planted Pines</b>	1	0	0	0	23	0	23
<b>Total</b>	<b>192</b>	<b>0</b>	<b>0</b>	<b>63</b>	<b>23</b>	<b>0</b>	<b>277</b>



Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
28	32245028-Cut	78.3	4130 - Aspen	Medium Density Pole	45	51-80	Harvest	Clearcut with Reserves	4130 - Aspen	Cmpt. Review Proposal
<p><u>Prescription</u> Harvest all aspen, jack pine (budworm hazard), fir, red maple. Leave some retention edges along openings and younger aspen, esp. where there is pine, paper birch and cherry present. Leave all N.R. Oak, cherry, WP, RP and WS. Evaluate whether to leave all paper birch or mark a few leave trees only when intensive cruise is completed.</p> <p><u>Specs:</u></p> <p><u>Other Comments:</u> Try leaving patches of poor quality clones, letting them die off, to possibly be replaced by more vigorous adjacent clones. (Areas along Floodwood Road - south side - and near G types.) Leave additional portion of stand as a temporary wildlife corridor strip (along N. side of ORV and S. of pre-inv stand 15). Prescribe stand for winter harvest to avoid conflict with Porterfield Lk motorcycle trail. Work with PRD/recreation staff to ensure trail integrity is maintained and provide additional signing/posts, if needed.</p> <p><u>Next Steps:</u> Monitor for adequate regeneration before next entry cycle.</p> <p><u>Proposed Start Date:</u> 10/01/2014</p>										
28	32245028-Cut_small	40.6	4130 - Aspen	Medium Density Pole	45	51-80	Harvest	Clearcut with Reserves	4211 - Planted Red Pine	Cmpt. Review Proposal
<p><u>Prescription</u> Harvest all aspen, jack pine (budworm hazard), fir, red maple. Leave some retention edges along openings and younger aspen, esp. where there is pine, paper birch and cherry present. Leave all N.R. Oak, cherry, WP, RP and WS. Evaluate whether to leave all paper birch or mark a few leave trees only when intensive cruise is completed.</p> <p><u>Specs:</u></p> <p><u>Other Comments:</u> Try leaving patches of poor quality clones, letting them die off, to possibly be replaced by more vigorous adjacent clones. (Areas along Floodwood Road - south side - and near G types.) Leave additional portion of stand as a temporary wildlife corridor strip (along N. side of ORV and S. of pre-inv stand 15). Prescribe stand for winter harvest to avoid conflict with Porterfield Lk motorcycle trail. Work with PRD/recreation staff to ensure trail integrity is maintained and provide additional signing/posts, if needed.</p> <p><u>Next Steps:</u> Convert this portion of stand to red pine. Plant 600-750 t/ac red pine, per TMS recommendations, along Kotar habitat ID "Rubicon SE"/PQE. Monitor for adequate regeneration per work instructions.</p> <p><u>Proposed Start Date:</u> 10/01/2014</p>										
31	32245031-Cut	0.6	42120 - Planted Jack Pine	High Density Pole	45	81-110	Harvest	Clearcut	42121 - Planted Jack Pine, Mixed Deciduous	Cmpt. Review Proposal
<p><u>Prescription</u> Harvest all hazard jack pine along stand 28/ORV trail boundary. Maintain trail integrity.</p> <p><u>Specs:</u></p> <p><u>Other Comments:</u></p> <p><u>Next Steps:</u></p> <p><u>Proposed Start Date:</u> 10/01/2014</p>										
37	32245037-Cut	14.5	4133 - Aspen, Mixed Pine	High Density Pole	45	51-80	Harvest	Clearcut with Reserves	4211 - Planted Red Pine	Cmpt. Review Proposal
<p><u>Prescription</u> Harvest all aspen, jack pine, and most paper birch, but leave smaller diameter (&lt;=6") stems, which are healthy yet. Leave all NR Oak, WP, and thin red pine, esp. where there are thicker pockets (some utility pole size) and encourage more natural regeneration. Cut all jack pine, as it is dead/dying and a budworm hazard. Convert stand to red pine.</p> <p><u>Specs:</u></p> <p><u>Other Comments:</u> Leave any retention aspen along/adjacent to pothole slopes. Also retain some larger aspen for possible raptor nesting sites. Possibly prescribe stand for winter harvest to avoid conflict with Porterfield Lk motorcycle trail. Work with PRD/recreation staff to ensure trail integrity is maintained and provide additional signing/posts, if needed.</p> <p><u>Next Steps:</u> Plant red pine (600-750 t/ac) in habitat type areas PQE/Kotar ID 'Rubicon SE'. Follow TMS recommendations. Monitor for successful regeneration per work instructions.</p> <p><u>Proposed Start Date:</u> 10/01/2014</p>										



S t a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
41	32245041-Cut	27.9	42210 - Natural Red Pine	High Density Log	79	111-140	Harvest	Shelter Wood with Reserves	42210 - Natural Red Pine	Cmpt. Review Proposal
<u>Prescription</u> West edge with more aspen, then transitions into almost pure pine (two-aged). Remove aspen, jack pine, which are dead/dying, and thin red										
<u>Specs:</u> pine to encourage new and release existing regeneration.										
<u>Other</u> Leave some of the oversized red pine, and protect white pine regeneration as much as possible. Protect ORV trail integrity and work with PRD										
<u>Comments:</u> staff, if needed.										
<u>Next</u> Scarify to encourage natural regeneration, if possible, otherwise wherever harvesting operations expose mineral soils, propose hand planting of										
<u>Steps:</u> red pine to assist regeneration process. Monitor for successful regeneration, per work instructions. If Diplodia occurs, re-assess the possibility of										
harvesting/planting with WLD; harvest all and trench/plant to red pine per TMS recommendations and work instructions. Wildlife recommends										
leaving all larger pine in place.										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2014										
46	32245046-Cut	28.3	4133 - Aspen, Mixed Pine	Medium Density Pole	45		Harvest	Clearcut with Reserves	4133 - Aspen, Mixed Pine	Cmpt. Review Proposal
<u>Prescription</u> Remove aspen - snapped, dying, noting Fomes and hypoxylon both in stand. Allow chipping to encourage better flush of clones. Leave red and										
<u>Specs:</u> white pine, white spruce but remove the older budworm hazard jack pine and balsam fir. Reserve all black cherry.										
<u>Other</u> Protect ORV trail. Possibly prescribe stand for winter harvest to avoid conflict with Porterfield Lk motorcycle trail. Work with PRD/recreation staff										
<u>Comments:</u> to ensure trail integrity is maintained and provide additional signing/posts, if needed.										
<u>Next</u> Monitor for adequate regeneration of aspen and pine before next entry cycle.										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2014										
47	32245047-Cut	22.8	42110 - Planted Red Pine	High Density Pole	51	141-170	Harvest	Crown Thinning	42110 - Planted Red Pine	Cmpt. Review Proposal
<u>Prescription</u> Scrubby red pine plantation poles which transitions into more open-grown, larger red pine (10-14" dbh) with aspen, paper birch and open areas										
<u>Specs:</u> with occasional aspen, S/F, birch.. Manage for mixed pine/aspen by thinning red pine, leave most cherry, white pine, white spruce and birch for										
diversity. Leave oversized red pine. Remove aspen, fir, jack pine.										
<u>Other</u> Leave visual marsh buffer and protect ORV trail. Protect residual pines.										
<u>Comments:</u>										
<u>Next</u>										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2014										
51	32245051-Cut	11.1	6124 - Lowland Spruce-Fir	High Density Pole	85	51-80	Harvest	Clearcut with Reserves	612 - Lowland Coniferous Forest	Cmpt. Review Proposal
<u>Prescription</u> Harvest all merchantable black spruce, balsam fir, tamarack and balsam poplar, leaving smaller diameter stems for seed, diversity. Leave all										
<u>Specs:</u> white pine, quaking aspen and cedar. Leave most paper birch.										
<u>Other</u> Avoid riparian SCA (north half of stand) and also thicker, wetter cedar concentrations, leaving retention clumps containing spruce and tamarack										
<u>Comments:</u> within these as well.										
<u>Next</u> Monitor for successful regeneration per work instructions.										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2014										

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Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
56 32245056-Cut	23.5	42290 - Natural Mixed Pine	High Density Log	93	111-140	Harvest	Shelter Wood with Reserves	42290 - Natural Mixed Pine	Cmpt. Review Proposal
<u>Prescription</u> A lot of oversized pine with thick balsam fir understory. Open up around and thin pine, removing fir understory to encourage pine regeneration.									
<u>Specs:</u> Harvest any aspen, maple. Allow chipping of fir. Reserve all white spruce. Leave most larger white pine despite any dead/dying tops noted.									
<u>Other Comments:</u> Special visual management area - maintain higher residual BA's around and near pond. Also, avoid low drainage crossing (part of 60 Day Creek flow)/cedar.									
<u>Next Steps:</u> Scarify to encourage natural regeneration, if possible, otherwise wherever harvesting operations expose mineral soils, propose hand planting of red pine to assist regeneration process. Monitor for successful regeneration, per work instructions. If Diplodia occurs, re-assess the possibility of harvesting/planting with WLD; harvest all and trench/plant to red pine per TMS recommendations and work instructions. Wildlife recommends leaving all larger pine in place.									
<u>Proposed Start Date:</u> 10/01/2014									

59 32245059-Cut1	18.5	6124 - Lowland Spruce-Fir	Medium Density Pole	85	51-80	Harvest	Clearcut with Reserves	612 - Lowland Coniferous Forest	Cmpt. Review Proposal
<u>Prescription</u> Harvest all merchantable black spruce, tamarack, balsam fir. Leave all cedar, quaking aspen, white spruce, white pine. Apply retention around cedar patches, leaving groups of trees, including some mature tamarack within. Evaluate whether sufficient volume to harvest any birch, aspen and maple at time of sale prep.									
<u>Other Comments:</u> Heavier tagalder swales, in places. Variable stocking. Older spruce, tamarack with mainly smaller balsam fir - older fir is dead already. Some clumps of cedar within, as well as scattered birch, aspen, maple. Avoid SCA areas within south portion of stand.									
<u>Next Steps:</u> Monitor for successful regeneration of mixed conifers per work instructions.									
<u>Proposed Start Date:</u> 10/01/2014									

63 32245063-Cut	11.2	42290 - Natural Mixed Pine	High Density Log	78	111-140	Harvest	Shelter Wood with Reserves	42290 - Natural Mixed Pine	Cmpt. Review Proposal
<u>Prescription</u> Red pine is oversized and may not be marketable. Harvest with shelterwood cut removing some of the pine as well as the heavy BF understory.									
<u>Specs:</u> Harvest all aspen, spruce as it is overmature and a current/future hazard to trail. Reserve all N. Red Oak and some bigtooth aspen (for goshawk, pileated woodpecker).									
<u>Other Comments:</u> Protect ORV trail and consult with recreation specialist, if need be.									
<u>Next Steps:</u> Scarify to encourage natural regeneration, if possible, otherwise wherever harvesting operations expose mineral soils, propose hand planting of red pine to assist regeneration process. Monitor for successful regeneration, per work instructions. If Diplodia occurs, re-assess the possibility of harvesting/planting with WLD; harvest all and trench/plant to red pine per TMS recommendations and work instructions. Wildlife recommends leaving all larger pine in place.									
<u>Proposed Start Date:</u> 10/01/2014									

**Total Treatment  
Acreage Proposed: 277.1**



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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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#Type!

Prescription  
Specs:

Other  
Comment:

Next  
Steps:

Proposed  
Start Date: #Type!

Limiting Factor

**Total Treatment  
Acreage Proposed: 0**

## Report 5 – Site Conditions

Gwinn Mgt. Unit  
Theresa Sysol : Examiner

Compartment 245  
Year of Entry 2015

### Availability for Management

Total Acres	Acres		Dominant Site Conditions	No	5B	3J	3H	2G
	Available	Not Available						
837	837		Aspen	837				
14	14		Cedar	14				
77	77		Jack Pine	77				
99	36	63	Lowland Conifers	36		54	3	6
16	16		Lowland Spruce/Fir	16				
18	18		Mixed Upland Deciduous	18				
37	37		Natural Mixed Pines	37				
83	83		Red Pine	65	18			
1,181	1,118	63	Total Forested Acres	1,100	18	54	3	6
	95%	5%	Relative Percent					

*\*Due to limitations in the current Site Conditions Analysis tool, all nonforested acres are considered available. Future development will enable analysis of nonforested types.*

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
002	Available	5B: Retention for regeneration purposes	6				
<b>Comments:</b>							
003	Available	5B: Retention for regeneration purposes	7				
<b>Comments:</b>							
004	Available	5B: Retention for regeneration purposes	5				
<b>Comments:</b>							

## Report 5 – Site Conditions

Gwinn Mgt. Unit  
Theresa Sysol : Examiner

Compartment 245  
Year of Entry 2015

005	<b>Not Available</b>	2G: Too wet (sensitive soils, does not include access issues)	6	2F: Too steep
<b>Comments:</b>				
007	<b>Not Available</b>	3J: Water quality / BMPs (stream, river, or lake)	44	3H: Deer Wintering Areas 2G: Too wet (sensitive soils, does not include access issues)
<b>Comments:</b> SCA's : riparian, deer wintering complex, visual				
008	<b>Not Available</b>	3J: Water quality / BMPs (stream, river, or lake)	11	2G: Too wet (sensitive soils, does not include access issues)
<b>Comments:</b> SCA - riparian				
009	<b>Not Available</b>	3H: Deer Wintering Areas	3	2G: Too wet (sensitive soils, does not include access issues)
<b>Comments:</b>				



## Report 6 – 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.

SCA Name	SCA Category	Detail Type	Recommendation	Acres
<b>S. Floodwood Road</b>	Visual Management Area	Recreational/Scenic Value Area	<b>SCA Removal</b>	5.8
<b>Comments</b> Visual area along Floodwood Road, but protected by static riparian SCA				
<b>60 Day Creek</b>	Spring-Seeps, Riparian Areas	Riparian Area	<b>SCA Removal</b>	6.5
<b>Comments</b> Protected by static SCA for riparian areas. Located in the S1/2SW of Sec 33, south of Floodwood Road.				
<b>N. Floodwood Road</b>	Visual Management Area	Recreational/Scenic Value Area	<b>SCA Removal</b>	7.4
<b>Comments</b> Visual area along Floodwood Road protected by static riparian SCA				



## Report 7 – 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	Archaeological Site	An aquatic or terrestrial area of the State that contains physical remains of human occupation. These are sites of cultural and historical significance that may occur upon terrestrial areas and Great Lakes bottomlands. They include thousands of Native American settlements and burial sites, as well as French and British outposts, nineteenth century logging camps, mines and homesteads. Beneath the waters of the Great Lakes, there are shipwrecks and other remains documenting the maritime trade. Such sites may be identified by Natural heritage data from the State Historic Preservation Office. Proposed treatments in this compartment will be implemented in such a manner as to maintain the integrity of these sites. Due to the sensitive nature of this information, no further detail about location is available.
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.
SCA	Habitat Area	An area that provide some specific need for the life cycle of wildlife species, including State Wildlife Areas and Waterfowl Production Areas, deer wintering complexes in lowland conifer communities, grassland openings and savannas. Habitat areas are distinct from critical habitat designated for recovery of endangered or threatened species (such as Kirtland's warbler or piping plover areas) in that they are more general in nature, are not primarily associated with threatened or endangered species, and are not covered by species recovery plans that are developed in cooperation with Federal agencies.
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in which the terrestrial ecosystem influences the aquatic ecosystem and vice-versa. Because of the unique conditions adjacent to lakes, streams and open water wetlands, riparian areas harbor a high diversity of plants and wildlife. Riparian communities are ecologically and socially significant in their effects on water quality and quantity, as well as aesthetics, habitat, bank stability, timber production, and their contribution to overall biodiversity.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	4133 - Aspen, Mixed Pine	High Density Sapling	21.4	5	1-50	T. sale #315-06 "Porterfield Powerline Sale" (unit 1) - cut Sp, 2007. Residual pine BA around 40.
2	42210 - Natural Red Pine	High Density Log	5.9	78	81-110	T. sale #315-06 "Porterfield Powerline Sale" (part of Unit 3) - cut Sp, 2008. Porterfield Lake Motorcycle Trail influence. Weeviled white pine. Trace amount of balsam fir.
4	42120 - Planted Jack Pine	High Density Pole	3.2	45	81-110	Planted Sp, 1970. Jack pine budworm study area/plot. Very limby - some breakage and dead stems noted.
5	42120 - Planted Jack Pine	High Density Pole	1.7	45	111-140	Planted Sp, 1970
6	42120 - Planted Jack Pine	High Density Pole	14.2	45	81-110	Planted Sp, 1970 w/ 2-0 jack pine. Jack pine budworm study area/plot.*
7	42210 - Natural Red Pine	Medium Density Log	7.3	78	1-50	T. sale #315-06 "Porterfield Powerline Sale" (part of Unit 2) - cut Sp, 2007. Left all red pine.
8	42120 - Planted Jack Pine	High Density Pole	2.9	45	111-140	Planted Sp, 1970 with 2-0 jack pine. Fringe pine, aspen.
9	42120 - Planted Jack Pine	High Density Pole	8.6	45	111-140	Planted Sp, 1970 with 2-0 jack pine. Jack pine very limby; some dead stems within. Lots of height, but overall small diameters. Jack pine budworm study area/plot.
10	42210 - Natural Red Pine	High Density Log	5.9	65	81-110	T. sale #315-06 "Porterfield Powerline Sale" (unit 4) - cut Sp, 2008. Trail influence. Trace paper birch, aspen, red maple poles within.
11	4130 - Aspen	High Density Sapling	5.5	16		T. sale #008-95 "Floodwood Powerline Sale" (unit 2) - cut Sp, 1996. All conifers, oak, cherry were left, plus birch seed trees.
13	42210 - Natural Red Pine	Medium Density Log	3.9	78	51-80	T. sale #315-06 "Porterfield Powerline Sale" (unit 2) - cut Sp, 2007. Removed aspen, jack pine, birch, maple and left red pine. Ground cover of bracken, grasses, sedge; rocks. This stand incorporates the heavier concentration patches of red pine.
14	4130 - Aspen	High Density Pole	44.8	36		T. sale #002-77 - cut 1977. Left oak, red pine. Trail influence. Trace amount of fir/spruce noted. Some older, larger diameter aspen (8-12") along stand edges, as well as jack, red pine. Some windthrow along adjacent cut line.
15	6129 - Mixed Coniferous Lowland Forest	High Density Pole	7.0	78	51-80	Steep, rolling terrain with depression/bowl containing spruce/tamarack, bog, and small pond.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
16	4130 - Aspen	High Density Sapling	102.3	5		East portion of stand was t. sale #314-06 "Porterfield ORV Aspen Sale" (unit 1,2) - cut March, 2007 and Sp, 2008 , and west portion t. sale #315-06 "Porterfield Powerline Sale - cut Sp, 2008 (unit 3) and Sp, 2007 (unit 2). Aspen heights range from ~ 5 - 16' . Trace residual of aspen, paper birch, cherry and oak. Also clump/strip of residual/retention aspen poles left (w/in center along N/S road), which contains good 10' red pine understory.
18	42210 - Natural Red Pine	Medium Density Log	4.8	78	51-80	T. sale #314-06 "Porterfield ORV Aspen Sale" - cut Sp, 2008. Stand comprises heavier red pine concentrations. Ground cover of bracken fern, wintergreen, grasses, club moss.
19	4130 - Aspen	High Density Sapling	9.4	17		T. sale #008-95 "Floodwood Powerline Sale" - cut Sp, 1996. All conifers, oak (tr), cherry(tr) left, plus birch seed trees. Some larger quaking aspen within. Trail influence.
23	42210 - Natural Red Pine	High Density Log	4.1	65	111-140	T. sale #314-06 "Porterfield ORV Aspen Sale" (unit 4) - cut Sp, 2008. Rolling terrain. Contains motorcycle trail.
24	42120 - Planted Jack Pine	High Density Pole	17.0	45	141-170	Planted Sp, 1970 with 2-0 jack pine @ 6x8 spacing. Jack pine is extremely limby. Small strip of red pine (SWNE - 8 acs) was also planted with 3-0 red pine F, 1965. Stand contains pockets of aspen, with mainly red pine saplings underneath, and red pine poles mixed with jack pine on east side of stand.
26	4130 - Aspen	High Density Sapling	13.6	17		T. sale #008-95 "Floodwood Powerline Sale" (unit 1) - cut Sp, 1996. Left all oak (tr), cherry, conifers and marked leave tree paper birch. Mainly 2-4" aspen, with isolated stems up to 7".
28	4130 - Aspen	Medium Density Pole	188.8	45	51-80	Overall aspen condition is poor - hypoxylon is heavy (stem breakage, cankers/galls), in addition to top dieback noted. Desire early harvest to promote better regeneration. Knobs with slightly older, healthier aspen. Numerous blowdown near ORV trailhead/trail.
31	42120 - Planted Jack Pine	High Density Pole	22.3	45	81-110	Planted Sp, 1970 with 2-0 JP (16 acs); V blade/planting machine @ 6 x 8 spacing. Porterfield Lake Motorcycle trailhead influence.
33	4130 - Aspen	High Density Pole	17.9	36		Rolling terrain. Some residual aspen, jack pine poles. T. sale #002-77 - cut 1977; left all oak, red pine. Porterfield Lake Motorcycle Trail influence.
34	42120 - Planted Jack Pine	High Density Sapling	7.5	4		T. sale #314-06 "Porterfield ORV Aspen Sale" (unit 3) - cut Sp, 2008. FTP 32-726: trench/seed completed 6/8/2009. Jack pine now ~3-5' hts.
37	4133 - Aspen, Mixed Pine	High Density Pole	14.5	45	51-80	Aspen, jack pine in decline. Heavier paper birch component at north end of stand with some oak, red maple (knob). Manage for both pine and aspen.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
41	42210 - Natural Red Pine	High Density Log	27.9	79	111-140	West edge with more aspen, then transitions into almost pure pine (two-aged). Remove aspen, jack pine, which are dead/dying, and thin red pine to encourage new and release existing regeneration. Porterfield Lake Motorcycle Trail influence.
42	4133 - Aspen, Mixed Pine	High Density Sapling	25.3	16	1-50	T. sale #013-95 "Porterfield ORV Trail Sale" - cut Sp, 1997. Aspen, jack pine and marked pine, paper birch cut. All oak and maple were left. Trace aspen, jack pine residual poles noted. Buffer left along both marshes, either side of Porterfield Lake Road - very steep terrain.
45	4130 - Aspen	High Density Sapling	70.0	25		T. sale #014-85 "Lost Arrow Block" - cut Sp, 1987 - F, 1988. ORV trail within.
46	4133 - Aspen, Mixed Pine	Medium Density Pole	28.3	45		Open-grown/sparse aspen clones - low quality with stem decay noted. Scattered pine; trace white spruce, balsam fir.
47	42110 - Planted Red Pine	High Density Pole	22.8	51	141-170	Planted F, 1965 with 3-0 red pine @6x6 spacing; presence of natural pine also. Porterfield Lake Motorcycle trail influence.
51	6124 - Lowland Spruce-Fir	High Density Pole	26.0	85	51-80	Contains small, open upland knob near marsh. Steeper slope along marsh edges.
52	4130 - Aspen	High Density Sapling	126.5	26		"Old Wagon Trail Block" #016-85 - cut 1986-87. FTP31-168: KG and disk/seed. Trace amount of residual aspen, maple, oak and birch within.
53	4130 - Aspen	High Density Sapling	50.9	15		"Porterfield ORV Trail Sale" #013-95 (unit 2) - cut spring, 1997. Left all oak, and conifers (except for pine marked to cut).
54	4199 - Other Mixed Upland Deciduous	High Density Pole	17.6	83	51-80	Scenic south facing slope of birch, maple and oak facing marsh - heavier to conifers on east end. Rolling topography.
56	42290 - Natural Mixed Pine	High Density Log	25.6	93	111-140	Visually appealing pine stand along Floodwood Road, which is thicker to red pine along marsh portion at north end (trail goes to point). Very little to no pine regeneration is present, though.
57	4133 - Aspen, Mixed Pine	High Density Sapling	46.0	5	1-50	T. sale #113-05 (Unit 1-2) "Old Wagon Trail Sale" - cut 2007 (S 1/2) and 2008 (N 1/2). Oak and most pine was left. Aspen now ~ 10 - 20' hts. Rolling terrain. Porterfield Lake Motorcycle Trail influence.
59	6124 - Lowland Spruce-Fir	Medium Density Pole	66.6	85	51-80	Variable stocking. Older spruce, tamarack with mainly smaller balsam fir - older fir is dead already. Some clumps of cedar within, as well as scattered birch, aspen, maple.
60	6122 - Black Spruce	High Density Pole	16.5	75	81-110	Mix of mainly black spruce and cedar - swale between higher grounds. Porterfield Lake Motorcycle Trail crosses stand (bridge) protecting drainage.

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Gwinn Mgt. Unit

## Report 8 – Forested Stands

Compartment: 245

Year of Entry: 2015



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
61	4130 - Aspen	High Density Sapling	13.9	5		T. sale #112-05 "Floodwood/County Line Sale" (unit 1) - cut Nov., 2008. FTP32-730: Disc trench completed 8/13/2009
62	4130 - Aspen	High Density Sapling	19.1	17		T. sale #013-95 (Unit 3) "Porterfield ORV Trail Sale" - cut October, 1996. Left all oak, conifers (except marked pine to cut). Porterfield Lake Motorcycle Trail runs along west edge of stand.
63	42290 - Natural Mixed Pine	High Density Log	11.2	78	111-140	Large diameter red pine with thick balsam fir understory. Some older aspen, S/F to possibly remove. Porterfield Lake Motorcycle Trail runs throughout stand.
64	6120 - Lowland Cedar	High Density Pole	14.1	90	141-170	
66	4130 - Aspen	High Density Sapling	39.4	4		T. sale #112-05 "Floodwood/County Line Sale" (unit 2-4) - cut Oct - Nov., 2008. FTP32-730: herbicide, trench, plant. Residual red pine and leave tree paper birch (most of which is dead now) within. Aspen is now 5 - 10' hts.



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
3	3201 - Sweet Fern	1.9	No	Low (NonForested)	Depression with pine encroachment
12	3103 - Rubus-Fern	10.2	No	Unspecified	Powerline R.O.W. Also snowmobile trail during the winter months.
17	3103 - Rubus-Fern	4.5	No	Low (NonForested)	
20	3103 - Rubus-Fern	2.3	No	Low (NonForested)	
21	3103 - Rubus-Fern	1.1	No	Unspecified	
22	3103 - Rubus-Fern	7.0	No	Unspecified	
25	3103 - Rubus-Fern	3.3	No	Unspecified	small opening with natural encroachment. Trail influence
27	6225 - Bog	1.3	No	Unspecified	
29	3201 - Sweet Fern	6.7	No	Low (NonForested)	natural encroachment occurring - treat perimeters when adjacent stands are harvested.
30	6225 - Bog	1.2	No	Unspecified	
32	3303 - Mixed Low Density Trees	1.4	No	Low (NonForested)	small opening/depression with pine, aspen on perimeters - natural encroachment. Trail influence along north end.
35	3303 - Mixed Low Density Trees	17.0	No	Unspecified	Knapweed noted along Floodwood Road.
36	3103 - Rubus-Fern	3.5	No	Low (NonForested)	
38	3302 - Low Density Conifer Trees	1.9	Yes	Low (NonForested)	Old grass opening with surrounding aspen, pine.
39	6225 - Bog	1.0	No	Unspecified	
40	6225 - Bog	0.8	No	Unspecified	
43	6225 - Bog	3.2	No	Unspecified	Water hole with surrounding bog.
44	3302 - Low Density Conifer Trees	4.1	No	Unspecified	Numerous red and white pine seeding in.



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
48	6225 - Bog	6.6	No	Unspecified	Bog depression.
49	6225 - Bog	1.4	No	Unspecified	
50	3303 - Mixed Low Density Trees	2.9	Yes	Low (NonForested)	Some encroachment
55	6239 - Mixed Emergent Wetland	12.6	No	Unspecified	60 Day Creek and beaver pond.
58	3303 - Mixed Low Density Trees	3.2	No	Low (NonForested)	
65	6220 - Alder/willow	1.1	No	Unspecified	60 Day Creek flows through.