



## GRAYLING FOREST MANAGEMENT UNIT COMPARTMENT REVIEW PRESENTATION

COMPARTMENT # 278 ENTRY YEAR: 2014

GIS Compartment Acreage: 1064 County: Crawford

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**Revision Date:** September 5, 2012

**Stand Examiner:** Tom Barnes

**Legal Description:** T27N, R1W, Section 29 and 30  
Lovells Township

**Management Goals:** To maintain a healthy habitat for the endangered species *Dendroica kirtlandii* (Kirtland's Warbler), taking into account structural and species diversity and visual management. Another goal within this compartment is to maintain the Crawford Red Pine Natural Area. The entire compartment is leased long-term to the National Guard and any management within the compartment needs to consider their uses.

**Soils and Topography:** Soils within the compartment consist of large areas of Grayling sands and small areas of Croswell and Graycalms sands in the uplands. In the lowlands within the compartment, soils consist of Dawson-Loxley peats and Tawas-Leafriver mucks. Topography within the compartment is mostly level with some gently rolling.

**Ownership Patterns, Development, and Land Use in and Around the Compartment:** The compartment is entirely under state ownership with a few scattered small parcels of private ownership around the south and east boundary. Most are seasonal residences. Both sections within the compartment are leased long-term to the National Guard (I.e; L-1479 Act 154 P.A. 1935) and may need special considerations to fit military training needs. This lease provides for usage by the Military during their encampment, with no permanent buildings or improvements to be erected.

**Unique, Natural Features:** Crawford Red Pine Natural Area (also known as Dyer Red Pines) and the Kirtland's Warbler.

**Archeological, Historical, and Cultural Features:** The Crawford Red Pine Natural Area (Dyer) is considered a historical feature.

**Special Management Designations or Considerations:** A large portion of the compartment is designated as part of the North Down Kirtland's Warbler Management Unit. Crawford Red Pine Natural Area, also commonly referred to as the Dyer Red Pines is designated natural area and ERA within the compartment that lies along Dyer Truck Trail. A specific ERA plan was developed for this area, directing management of this old growth pine area. This natural area encompasses a small stand of old growth red pine. No motorized vehicles or camping is allowed within the natural area per a Director's order. Military training is discouraged in this stand.

**Watershed and Fisheries Considerations:** None.

**Wildlife Habitat Considerations:** The primary objective is to perpetuate the existing Jack Pine cover types suitable for the endangered Kirtland's Warbler. Refer to the Kirtland's Warbler Management Plan for management.

**Mineral Resource and Development Concerns and/or Restrictions:** Surface sediments consist of ice-contact and glacial outwash sand and gravel and postglacial alluvium. Glacial drift thickness varies between 600 and 800 feet. There is elevation relief of approximately 150 feet in the compartment. Beneath the glacial drift is the Coldwater Shale. There is not an economic use for the Coldwater Shale. The nearest gravel pit is located just east of the compartment. Gravel potential appears to be good on the upland areas. This is part of the State Military Reservation. There are no current leases in this compartment. The closest production is the Antrim Shale gas play three miles to the northeast.

**Vehicle Access:** Vehicle access into the compartment can be obtained from several two-track roads leading off from North Down River Road just north of the compartment. County roads of Dyer Truck Trail borders the south edge of the compartment and Martindale Road borders the east edge of the compartment. Several two-track roads lead off from these two roads into the compartment. Two tracks fractionalizing the Kirtland Warbler management units will be closed/planted over when stands are replanted.

**Survey Needs:** None.

**Recreational Facilities and Opportunities:** There are no designated recreational facilities within the compartment. Recreational opportunities include hunting, bird watching and site seeing.

**Fire Protection:** Jack Pine, a highly fire susceptible species dominates the compartment. However, access for fire equipment into the compartment is adequate. The nearest water point for the compartment is the headwaters of Barker Creek, just west of the compartment.

**Additional Compartment Information:** This compartment has experienced a lot of wildfire activity in the past. A large portion of this compartment was involved in the 1990 Stephan Bridge Fire and another portion of this compartment was involved in the Bald Hill Fire.

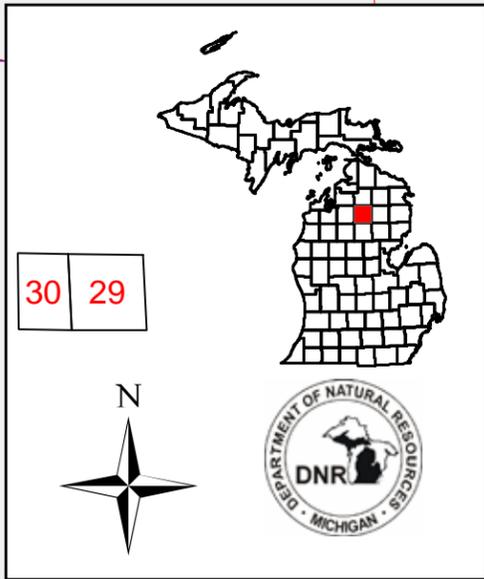
➤ **The following reports are available:**

- ◆ **Total Acres by Cover Type and Age Class**
- ◆ **Proposed Treatment Summaries**
- ◆ **Dedicated Conservation Area Details**
- ◆ **Listing of Forested Stands**
- ◆ **Listing of Non-Forested Stands**
- ◆ **Proposed Treatments with No Limiting Factor**
- ◆ **Proposed Treatments with Limiting Factors**

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

- ◆ **Base feature information, stand numbers, cover types, recreation trails and facilities**
- ◆ **Proposed treatments**
- ◆ **Dedicated & Proposed Special Conservation Areas**

Compartment: 278  
 T27N R01W Sec. 29, 30  
 County: Crawford  
 Unit: Grayling  
 YOE: 2014  
 Acres: 1,064 GIS Calculated  
 Examiner: Thomas Barnes  
 Map Revised: 09/10/2012  
 Map Phase: Pre-Review



# Cover Type & Treatment Map

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

**Legend**

- ✦ Remonumented Section Corners
- ◇ Corners
- 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
- ✕ Gate
- ▲ Berms
- Stream
- Intermittent Stream
- ⊕ Powerlines
- Lakes and Rivers
- State Forest Land

**Treatments**

- Clearcut (w/Reserves, Patch/Strip)

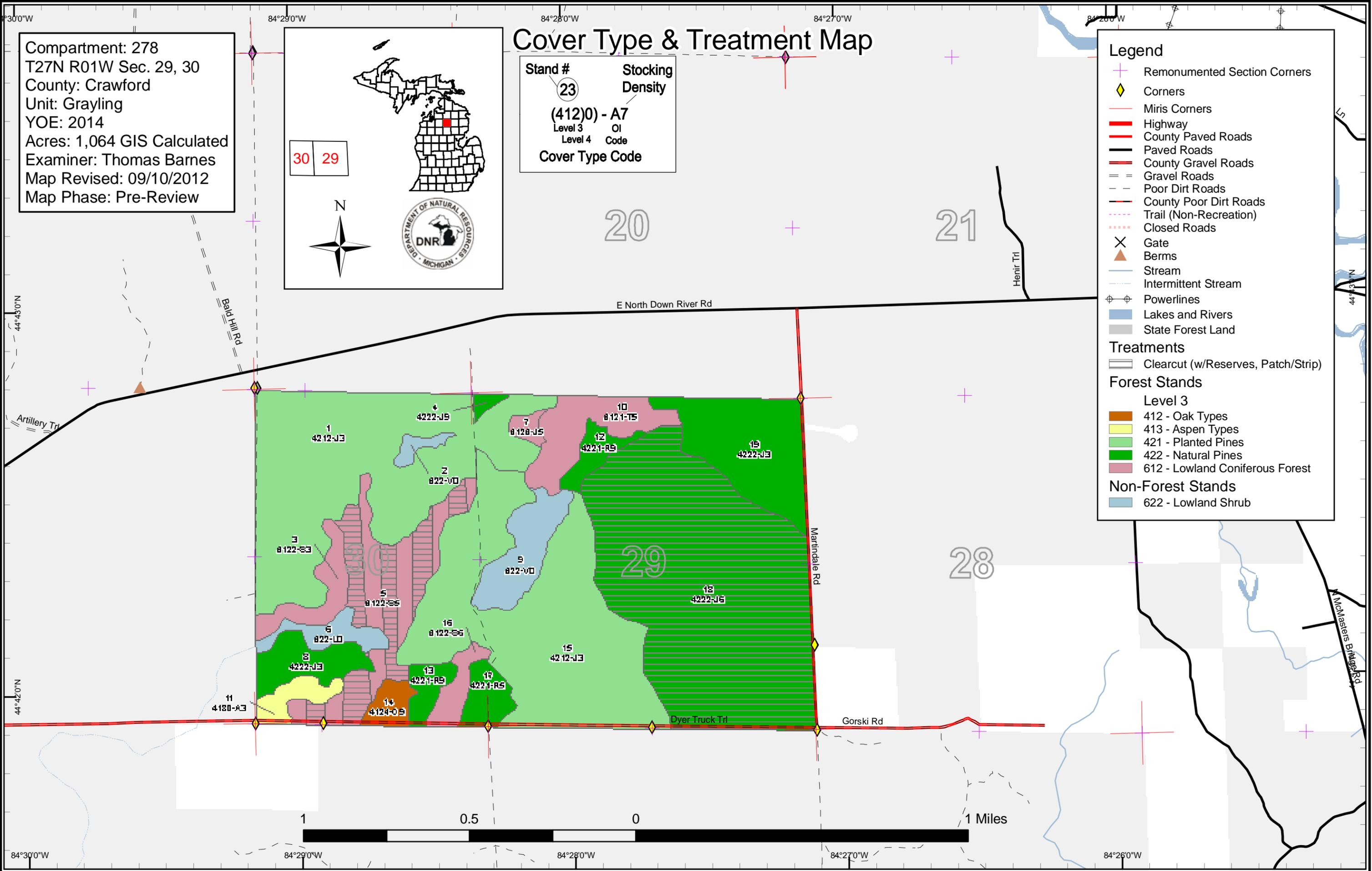
**Forest Stands**

**Level 3**

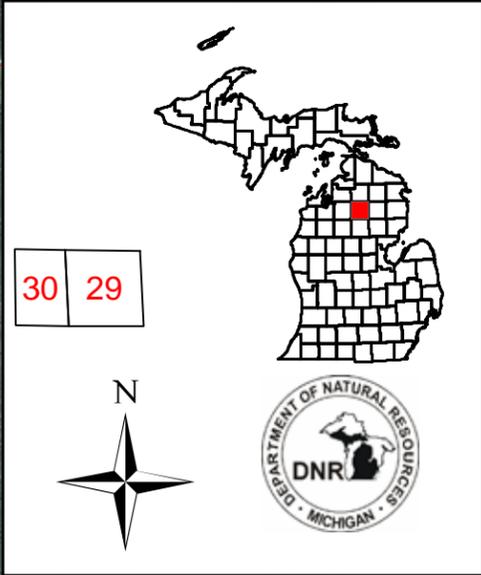
- 412 - Oak Types
- 413 - Aspen Types
- 421 - Planted Pines
- 422 - Natural Pines
- 612 - Lowland Coniferous Forest

**Non-Forest Stands**

- 622 - Lowland Shrub



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# Stand Boundary Map

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

### Legend

- Remonumented Section Corners
- Corners
- 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
- Gate
- Berms
- Stream
- Intermittent Stream
- Powerlines
- Stand Boundaries

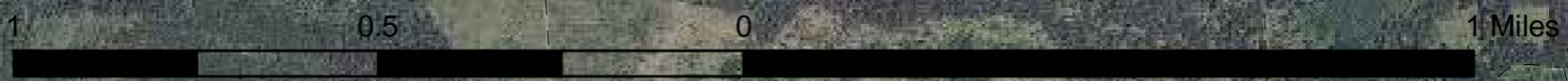
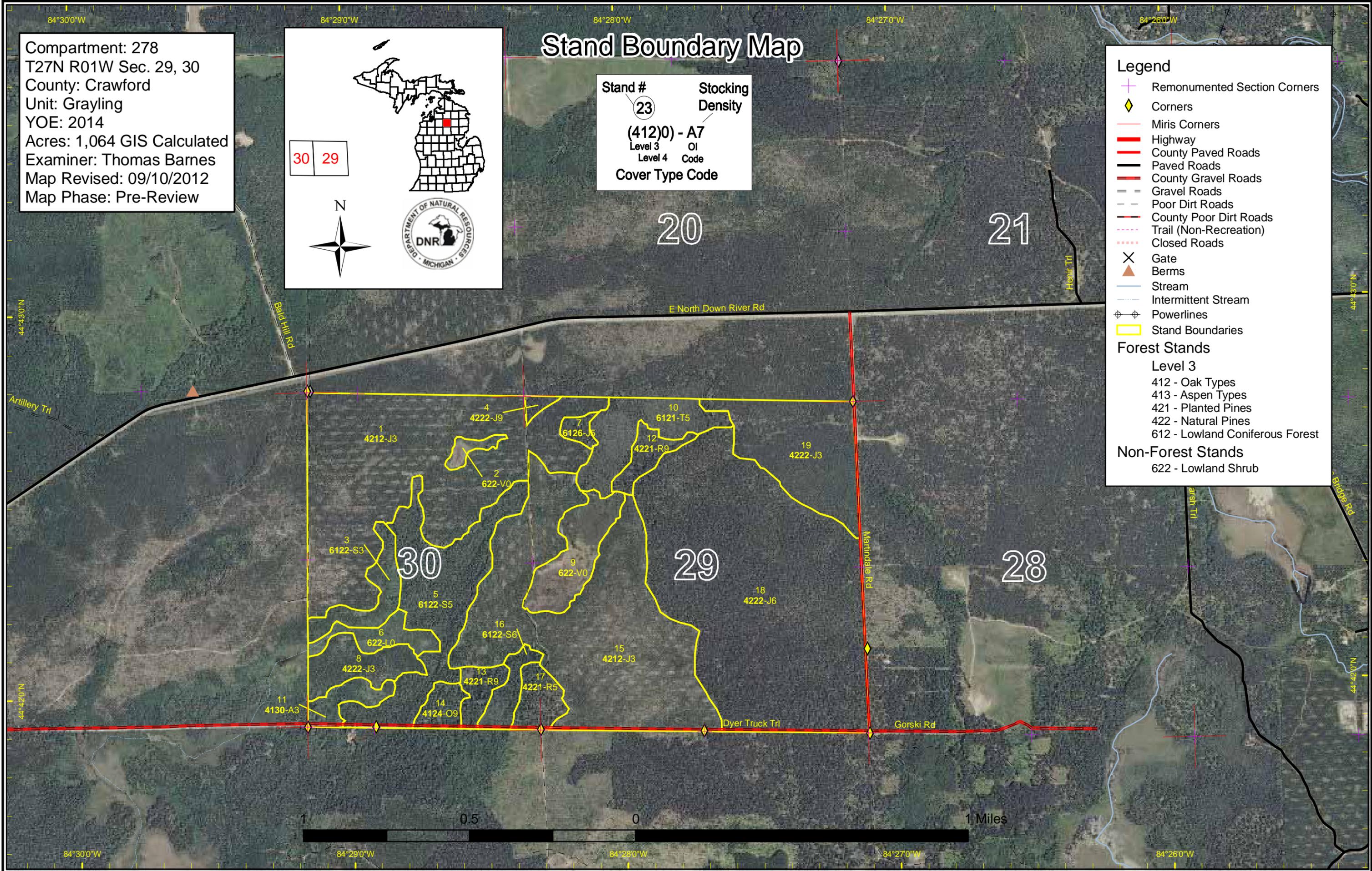
### Forest Stands

Level 3

- 412 - Oak Types
- 413 - Aspen Types
- 421 - Planted Pines
- 422 - Natural Pines
- 612 - Lowland Coniferous Forest

### Non-Forest Stands

- 622 - Lowland Shrub



44°43'0"N

44°42'0"N

44°43'0"N

44°42'0"N

84°30'0"W

84°29'0"W

84°28'0"W

84°27'0"W

84°26'0"W

84°30'0"W

84°29'0"W

84°28'0"W

84°27'0"W

84°26'0"W

Bald Hill Rd

Artillery Trl

E North Down River Rd

Heavil Trl

Marindale Rd

Dyer Truck Trl

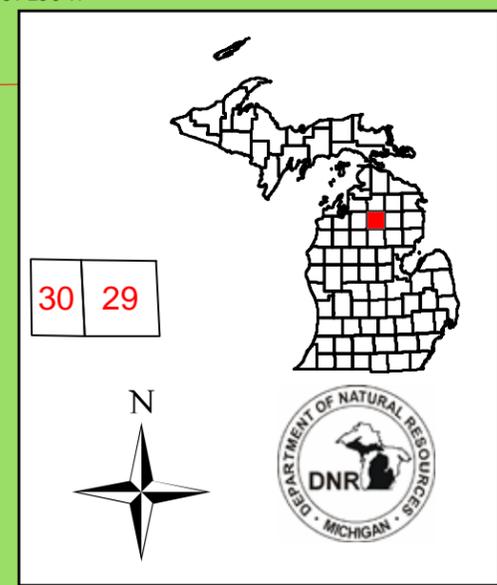
Gorski Rd

Walsh Trl

Bridge Rd

# Dedicated & Proposed Special Conservation Area Map

Compartment: 278  
 T27N R01W Sec. 29, 30  
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 Examiner: Thomas Barnes  
 Map Revised: 09/10/2012  
 Map Phase: Pre-Review



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

**Legend**

- + Remonumented Section Corners
- Miris Corners
- Stand Boundaries
- Dedicated Special Conservation Areas
- Cold Water Streams
- Ecological Reference Areas
- Kirtland Warbler Habitat
- Non\_Dedicated Natural Areas and National Natural Landmarks
- Wildlife Management Areas
- Research, Development, and Military Lands

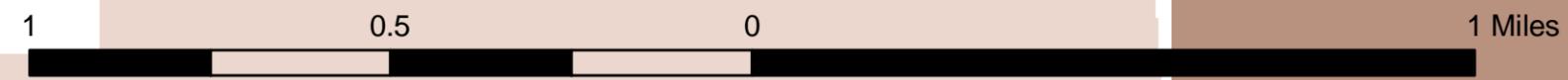
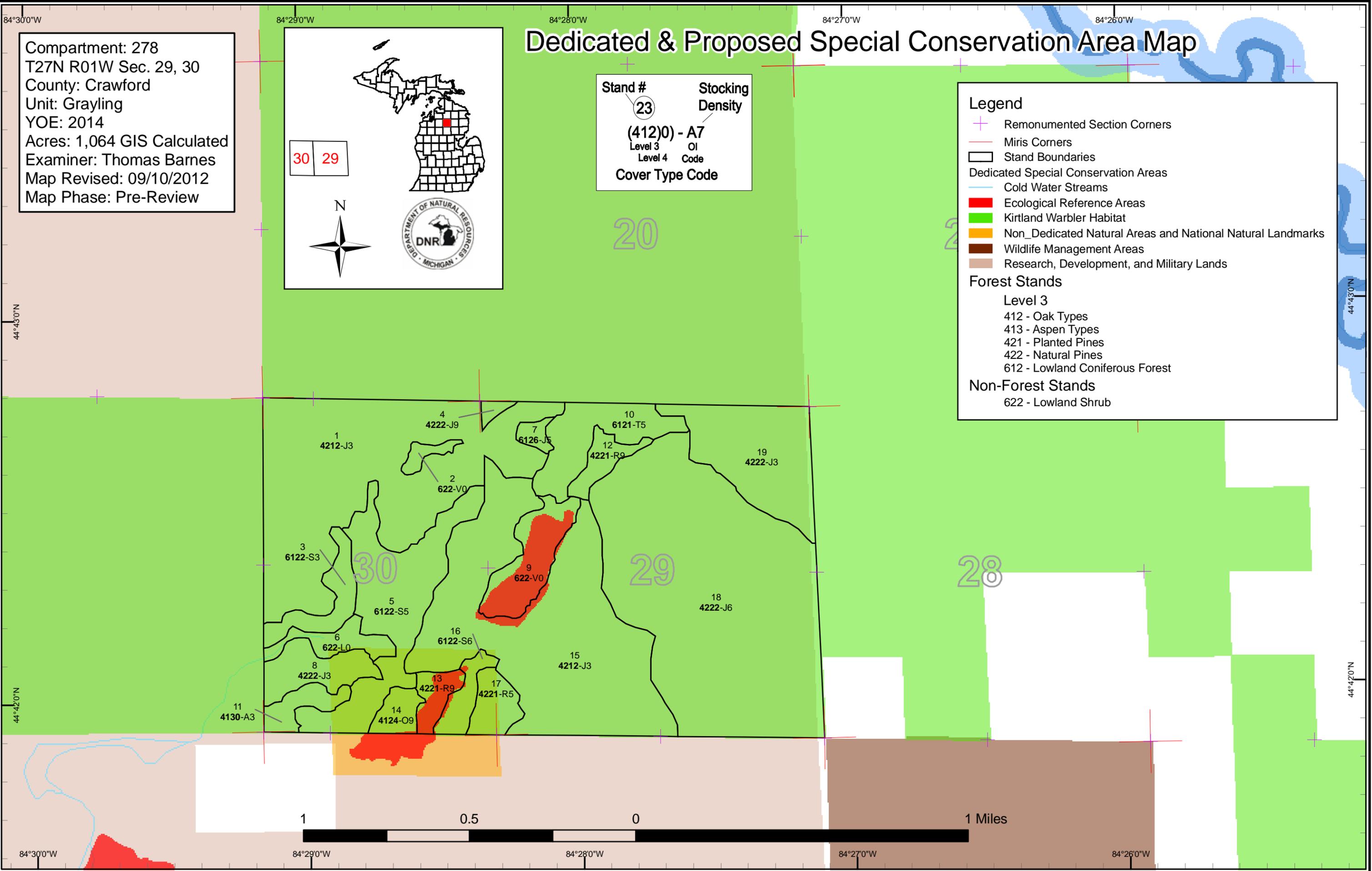
**Forest Stands**

Level 3

- 412 - Oak Types
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**Non-Forest Stands**

- 622 - Lowland Shrub



84°30'0"W 84°29'0"W 84°28'0"W 84°27'0"W 84°26'0"W

44°43'0"N 44°42'0"N 44°41'0"N

**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	13	0	0	0	0	0	0	0	0	0	0	0	0	13
Bog	37	0	0	0	0	0	0	0	0	0	0	0	0	0	37
Jack Pine	0	205	231	69	0	5	290	0	0	0	0	0	0	0	799
Lowland Conifers	0	0	0	0	0	0	0	12	0	0	0	0	0	0	12
Lowland Shrub	15	0	0	0	0	0	0	0	0	0	0	0	0	0	15
Lowland Spruce/Fir	0	0	19	0	0	0	0	12	82	0	0	0	0	0	114
Oak	0	0	0	0	0	0	0	10	0	0	0	0	0	0	10
Red Pine	0	0	0	0	0	0	0	15	0	0	0	0	11	0	26
Tamarack	0	0	0	0	0	0	38	0	0	0	0	0	0	0	38
<b>Total</b>	<b>52</b>	<b>218</b>	<b>250</b>	<b>69</b>	<b>0</b>	<b>5</b>	<b>327</b>	<b>49</b>	<b>82</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>11</b>	<b>0</b>	<b>1064</b>



## Table 2 – Proposed Treatment Summaries

**Grayling Mgt. Unit**  
**Year of Entry 2014**

**Compartment 278**  
**Total Compartment Acres: 1064**

### Acres by Treatment Type

Commercial Harvest - 332	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
<b>Jack Pine</b>	287	0	0	0	0	0	0	287
<b>Lowland Spruce/Fir</b>	45	0	0	0	0	0	0	45
<b>Total</b>	332	0	0	0	0	0	0	332

**Table 3 -- Treatments Prescribed  
with No 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
5 72278005-Cut	45.0	6122 - Black Spruce	Medium Density Pole	82	1-50	Harvest	Patch or Strip Clearcut	6122 - Black Spruce	Cmpt. Review Proposal

Prescription Strip Clearcut without retention. Alternatenated treatment/untreatment area will be 4 chains wide. Include regen protection spec and rabbitat spec in contract. Tops to be left and sale is to be shortwooded.

Other Winter time harvest, which will provide a need for an extended contract length of at least 3 years. There will also be a need for an extended Comments: window for determining regen success.

Next Acceptable regen will be moderate to well stocked black spruce with a mixture of lowland conifer and decidious species. Steps:

Proposed  
Start Date: 10/01/2013

18 72278018-Cut	286.9	42220 - Natural Jack Pine	High Density Pole	66		Harvest	Clearcut with Reserves	42121 - Planted Jack Pine, Mixed Deciduous	Cmpt. Review Proposal
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Prescription Clearcut with retention, follow stand retention guidelines. Focus pockets of retention along Dyer truck trail and N dyer truck trail. Specs:

Other Southeastern corner of sale is heavier to oak. Plan sale and planting so that they do not conflict with other scheduled plantings, to ensure the Comments: number of acres needed to be planted to not exceed the annual amount.

Next Trench and plant to jack pine as per the Down River Kirtland's Warbler Management. Steps:

Proposed  
Start Date: 10/01/2013

**Total Treatment  
Acreage Proposed: 331.8**

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
72269_OYOE_cc	2.0					Harvest	Clearcut	4131 - Aspen, Oak	Cmpt. Review Proposal
<u>Prescription Specs:</u> Final harvest except leave any beech, ash, and conifers. No additional retention specified due to small stand size and the proximity of retention in comp 268 stand 28. Set up concurrent with compt 268 (2014 YOE) stand 28.									
<u>Other Comments:</u>									
<u>Next Steps:</u> Natural regen survey. Natural regen goal is a mixture of aspen, oak and hardwoods.									
<u>Proposed Start Date:</u> 10/01/2013									

72272_OYOE_ccr	5.6					Harvest	Clearcut	42120 - Planted Jack Pine	Cmpt. Review Proposal
<u>Prescription Specs:</u> Final harvest except leave the RP & WP. No additional retention due to small stand size. Run the north & west boundary to include the operable transition ground (where the densest black spruce cover is) down to the swamp. Cut all JP & Scotch pine stems regardless of merchantability. Harvest concurrent with the adjacent comp 268 stand 6 (aquired through the same land transaction). When harvesting this stand's planted SP, site a secondary landing immediately adjacent to the plantation so that Scotch pine doesn't get dragged through the general stand area, distributing its weed seed. Add hare habitat improvement spec to fell the red-painted boundary line trees bordering the swamp.									
<u>Other Comments:</u> Protect the survey monument and any witness trees associated with the north quarter corner of section 22. Borders the Lovells KW Unit, Management Block 56.									
<u>Next Steps:</u> Trench and plant JP to KW specs. May need site prep treatments (that could include burning, herbicide, etc.) to control scotch pine regen before planting. Artificial regen surveys. Acceptable regen is JP at stockings suitable for KW habitat, with minor components of naturally-established mixed deciduous and native conifer species.									
<u>Proposed Start Date:</u> 10/01/2013									

72289_OYOE_cc	6.7					Harvest	Clearcut	42120 - Planted Jack Pine	Cmpt. Review Proposal
<u>Prescription Specs:</u> Final harvest, leaving any RP, WP and white oak. No additional retention due to small stand size. Treat concurrent with the adjacent comp 290 stand 26.									
<u>Other Comments:</u> Protect the survey monument and witness trees associated with the quarter corner common to sections 26 & 27.									
<u>Next Steps:</u> Trench and plant JP to KW specs. Artificial regen surveys. Acceptable regen is JP at stockings suitable for KW habitat, along with naturally-established oak and pine.									
<u>Proposed Start Date:</u> 10/01/2013									

**Total Treatment  
Acreage Proposed: 14.3**



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	42120 - Planted Jack Pine	High Density Sapling	206.2	21		Immature Kirtland Warbler Plantation, part of the Down River Road Kirtland's Warbler Management Area Unit 1. Portion of stand was burned in the 1990 Stephan Bridge Fire.
3	6122 - Black Spruce	High Density Sapling	19.5	22		Jack pine is found on the drier soils and it transitions to black spruce and scattered tamarack.
4	42220 - Natural Jack Pine	High Density Log	2.8	65		Very small stand of mixed red and jack pine in the pole to log size, provides good verticle structure diveristy within the warbler management area.
5	6122 - Black Spruce	Medium Density Pole	82.2	82	1-50	Nice mixed lowland conifer stand, good amount of slash from down trees with in the stand. Good wildlife habitat.
7	6126 - Lowland Jack Pine	Medium Density Pole	4.8	50		Aspen is occupying some of the canopy gaps within this stand, Nice stand of pole to log sized jack and red pine with black spruce and aspen.
8	42220 - Natural Jack Pine	High Density Sapling	24.6	20		Stand appears to be naturally regenerated, Part of the Stephan Bridge fire.
10	6121 - Tamarack	Medium Density Pole	37.5	66		Good sized stand of Tamarack with some super canopy white pine. Black spruce is also found in this stand.
11	4130 - Aspen	High Density Sapling	12.6	16		Aspen stand with a couple of wet areas. SW portion of stand is a mixture of pine with super canopy red pine, previous inventory separated this stand out. Eastern end opens up with a mixture of sub species. Timber Sale number 72-055-94-01.
12	6127 - Lowland Pine	High Density Log	11.9	71	111-140	Large Bull Red Pine, estimating 100+ years old, scattered throughout the stand, along the same size as many of those found in the Dyer Area.
13	42210 - Natural Red Pine	High Density Log	11.2	167	111-140	The BA for R pine averaged 120 in this stand. Stand is within the ERA Dyer Natural Area. Dyer Natural Area has its own management plan. Stand is dominated by the mature red pine with a mixture of oak and red maple. There is good component of red pine in the understory of pole size. This stand has had prescribed burns in the past, along with adjacent stand to the south.
14	4124 - Red with White Oak	High Density Log	10.4	73	81-110	Mixed oak stand with red maple, pine and some fir. The understory is a mixture of red, white and jack pine as well as red and white oak with maple. Stand is within the ERA Dyer Natural Area. Dyer Natural Area has its own management plan. Previous records indicated the stand was salvaged in 1994 with the removal of dead oak. This stand has received prior prescribed burns.
15	42120 - Planted Jack Pine	High Density Sapling	205.2	10		Jack pine plantation planted in 1996 and is part of the Down River Kirtland's Warbler Management Area, block 4. Two warblers were counted in this stand in 2004.

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## Grayling Mgt. Unit

## 5 – Forested Stands

Compartment: 278

Year of Entry: 2014



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
16	6122 - Black Spruce	High Density Pole	12.1	72	111-140	Nice stand of mixed lowland conifers, fair amount of down coarse woody debris. The southern end of the stand is more open and has a higher percentage of Tamarack, as you move north through the stand it transitions to more black spruce. Stand should be strongly considered for treatment in the next inventory cycle. Very nice stand for wildlife. Stand is within the ERA Dyer Natural Area. Dyer Natural Area has its own management plan.
17	42210 - Natural Red Pine	Medium Density Pole	15.0	76	81-110	Stand has a good mixture of red pine ranging from pole to supercanopy trees. Oak of log size. Stand is within the ERA Dyer Natural Area. Dyer Natural Area has its own management plan.
18	42220 - Natural Jack Pine	High Density Pole	286.9	66		Previous inventory recommended treating stand during this entry cycle. Stand is mainly pole size jack pine with oak mixed throughout. Trees are 2-3 sticks. This is part of Down River Kirtland's Warbler Unit, block.
19	42220 - Natural Jack Pine	High Density Sapling	69.0	35		Jack plantation, part of the Bald Hill Fire of 1975, this is part of the Down River Kirtland's Warbler Management Area, block 5. Stand was planted in 1977.



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
2	6225 - Bog	4.8	No	Low (NonForested)	Small bog type area that appears to hold water occasionally or has historically. Eastern end of the bog is where the majority of the trees/shrubs where located.
6	6220 - Alder/willow	14.6	No	Unspecified	Stand is a combination of tag alder with scattered jack pine, black spruce and tamarack. Water does flow through this stand and the Southwestern portion of stand is open and dominated by grass with snags scattered throughout.
9	6225 - Bog	32.4	No	Low (NonForested)	Large bog/marsh with leatherleaf along the edges, some clumps of jack pine exist and at the Northeastern end of the bog shrub and trees are present. This bog is an ERA.



### 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
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## 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.
HCVA	Designated Critical Habitat	Critical habitat areas are established via a consultative and cooperative process between the DNR and the U.S. Fish and Wildlife service for the recovery of threatened and endangered species, as governed by Part 365, Endangered Species Protection, of the Natural Resources and Environmental Protection Act, 1994 PA 451, and the Federal Endangered Species Act of 1973. This is an active program, with proposed species plans in various stages of review. As of now only two exist, Kirtland Warbler Habitat and Piping Plover Habitat.
ERA	Ecological Reference Areas	Ecological Reference Areas (ERAs) are high quality examples of natural communities that have been identified as Element Occurrences (EOs) by the Michigan Natural Features Inventory (MNFI) within the context of their natural community classification system. Element Occurrences with viability ranks of A (Excellent) or B (Good) and a Global (G) or State (S) element (rarity) ranking of endangered (1), threatened (2), or rare (3) serve as an initial base of ERAs. They may be located upon any ownership in the State. The system is comprised of individual or associations of natural community types that are managed for restoration and maintenance of natural ecological processes and values. The public may submit recommendations for lands as ERAs using the DNR Conservation Area Recommendation Form.
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	Non-Dedicated Natural Areas and National Natural Landmarks	This category is comprised of those Natural, Wilderness and Wild Areas that have been nominated or proposed for legal dedication, but for which legal dedication by legislature has not occurred. The nomination process is defined by Part 351, Wilderness and Natural Areas, of the Natural Resources and Environmental Protection Act, 1994 PA 451. The program is administered by the DNR. Nominations require the submittal of a Natural Areas Nomination Packet to the DNR. This is an active program, with proposed sites in various stages of review. Final dedication of nominated Natural, Wilderness and Wild Areas is accomplished through legislative action.
SCA	Research and Military Areas	These areas provide facilities and lands specifically dedicated for research, or other purposes. They include the 5,847 acre Forest Fire Experiment Station, the 12,000 acre Houghton Lake Wildlife Research Area, the Beaver Islands Archipelago Wildlife Research Area (that includes most of Garden Island, all of High and Hog Islands, all state owned land on Beaver, South Fox and North Fox Islands), the Cusino Wildlife Research Area, the 3,000 acre Hunt Creek Fisheries Research Station, the 125 acre Wyman Nursery, and over 144,000 acres of Military Lands.