



Roscommon Forest Management Unit
Compartment Review Presentation
Compartment #175 **Entry Year: 2014**
Compartment Acreage: 1581 **County: Ogemaw**

Revision Date: 1/3/2012

Stand Examiner: Dale Ekdom

Legal Description: T24N R01E Sections 16, 17, 19, and 20

Identified Planning Goals: Kirtland Warbler Eco-Regional Management Area

Management Goals: Maintain current age and species diversity in a range of early and late successional ecosystems as specified by the Kirtland Warbler Management Plan (KWMP).

Soil and Topography: Terrain is flat to gently rolling and the soils are predominately Grayling and Graycalm sands with smaller portions of Manistee and Allendale loamy sands and Croswell sands in the upland areas. Soils in the East Creek drainage in Section 19 are Melita sands and undifferentiated Histosols and Aquepts.

Ownership Patterns, Development, and Land Use in and Around the Compartment: Compartment is a solid block of state land except for a 40 acre private parcel in the NWNE Section 19 and a 40 acre parcel in SENE of Section 17. There are also several large blocks of USFWS lands managed for KW in Sections 17 and 20. Compartment is surrounded by state land on all 4 sides except for an 80 acre private parcel in the N1/2NE Section 18.

Unique, Natural Features: Kirtland Warbler nesting habitat except for west portions of Section 19. Potential for pine barrens flora and fauna in the dry outwash areas of the compartment.

Archeological, Historical, and Cultural Features: None noted or found during fieldwork.

Special Management Designations or Considerations: KW Management Block #89.

Watershed and Fisheries Considerations: Section 19 contains the headwaters of East Creek.

Wildlife Habitat Considerations: Maintain as much ecosystem diversity in the compartment as possible given constraints imposed by the KWMP to benefit game species such as deer, grouse, rabbits, and turkeys, and various waterfowl as well as non-game species.

Mineral Resource and Development Concerns and/or Restrictions: Surface sediments consist of ice-contact and glacial outwash sand and gravel and postglacial alluvium. The glacial drift thickness varies between 400 and 600 feet. Beneath the glacial drift are the Mississippian Marshall Sandstone and Coldwater Shale. The Marshall has been used as a building stone in the past. The nearest gravel pit is located one mile to the east and potential may exist in the compartment. The Rose City Fields are located just to the east. The fields have produced over 9.3 million BO and 9.9 Bcf gas from the Devonian Richfield Formation. They are

in secondary recovery operations currently. The main field also produces from the Prairie du Chien, and has produced over 31 Bcf gas and 200,000 BO. None of the State land in the compartment is currently leased.

Vehicle Access: Vehicle access to the exterior of each section is good via seasonal county roads. Vehicle access to the interior of Section 19 is somewhat better due to the snowmobile trail. All other interior roads have been closed as specified in the KWMP.

Survey Needs: None necessary at this time.

Recreational Facilities and Opportunities: Section 19 is bisected by a portion of the Ogemaw Hills snowmobile trail. Compartment is also heavily used for hunting, especially deer hunting.

Fire Protection: This compartment has an abundance of jack pine cover types of mostly younger ages and it is in the Zone 3 fire dispatch area. The west end of the Mech Fire (1998) is in Sections 16 and 17. Remnants of other smaller and larger jack pine fires can still be seen on the landscape.

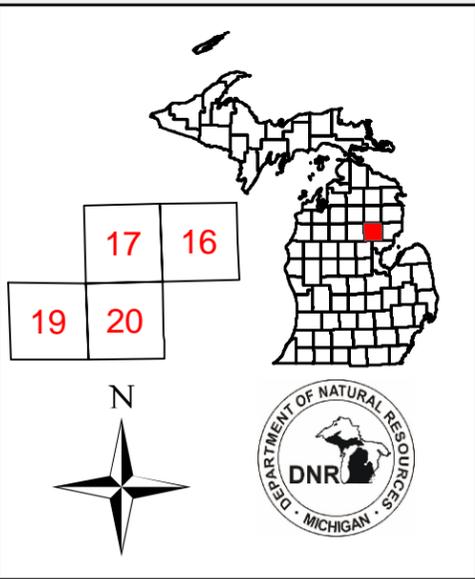
Additional Compartment Information: 83 acres of regeneration cuts in jack pine and aspen have been proposed. The jack pine will be planted to red pine as it is not classified as critical habitat for KW. There are also 4 acres of opening maintenance proposed in a maintained wildlife opening.

- **The following reports from the Inventory are attached:**
 - ◆ **Total Acres by Cover Type and Age Class**
 - ◆ **Proposed Treatment Summary**
 - ◆ **Proposed Treatments – No Limiting Factors**
 - ◆ **Proposed Treatments – With Limiting Factors**
 - ◆ **Stand Details (Forested and Nonforested)**
 - ◆ **Dedicated and Proposed Special Conservation Areas**

- **The following information is displayed, where pertinent, on the attached compartment maps:**
 - ◆ **Base feature information, stand boundaries, cover types, and numbers**
 - ◆ **Proposed treatments**
 - ◆ **Details on the road access system**

Cover Type & Treatment Map

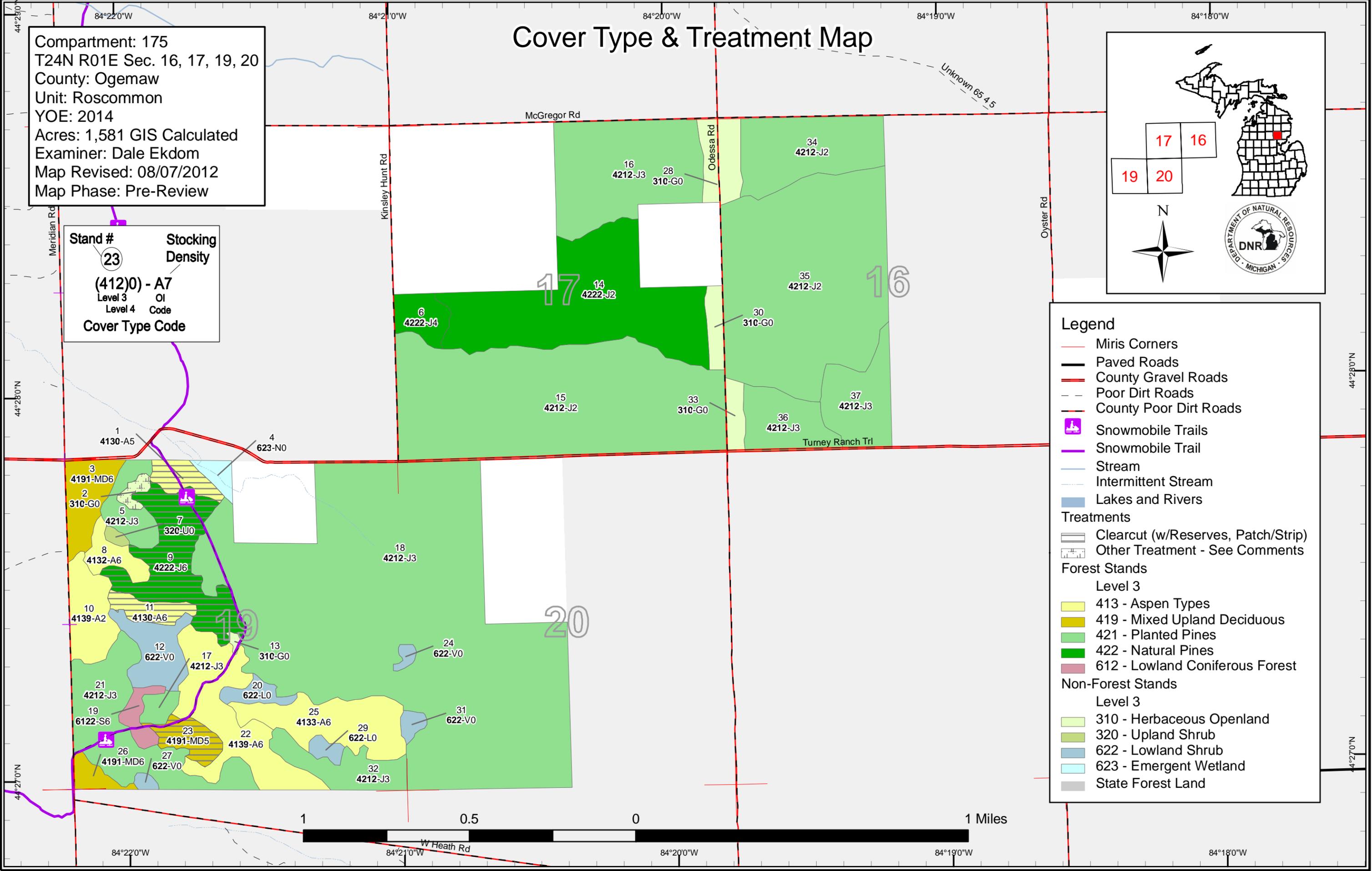
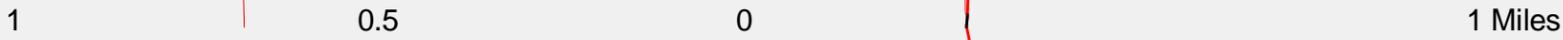
Compartment: 175
 T24N R01E Sec. 16, 17, 19, 20
 County: Ogemaw
 Unit: Roscommon
 YOE: 2014
 Acres: 1,581 GIS Calculated
 Examiner: Dale Ekdorn
 Map Revised: 08/07/2012
 Map Phase: Pre-Review



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

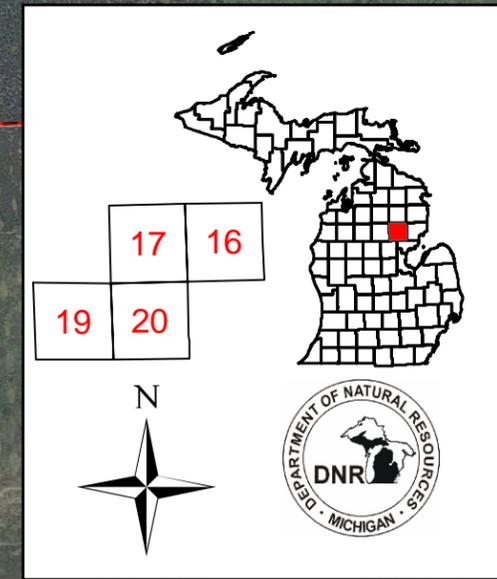
Legend

- Miris Corners
- Paved Roads
- County Gravel Roads
- Poor Dirt Roads
- County Poor Dirt Roads
- Snowmobile Trails
- Snowmobile Trail
- Stream
- Intermittent Stream
- Lakes and Rivers
- Treatments**
- Clearcut (w/Reserves, Patch/Strip)
- Other Treatment - See Comments
- Forest Stands**
- Level 3
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 612 - Lowland Coniferous Forest
- Non-Forest Stands**
- Level 3
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- State Forest Land



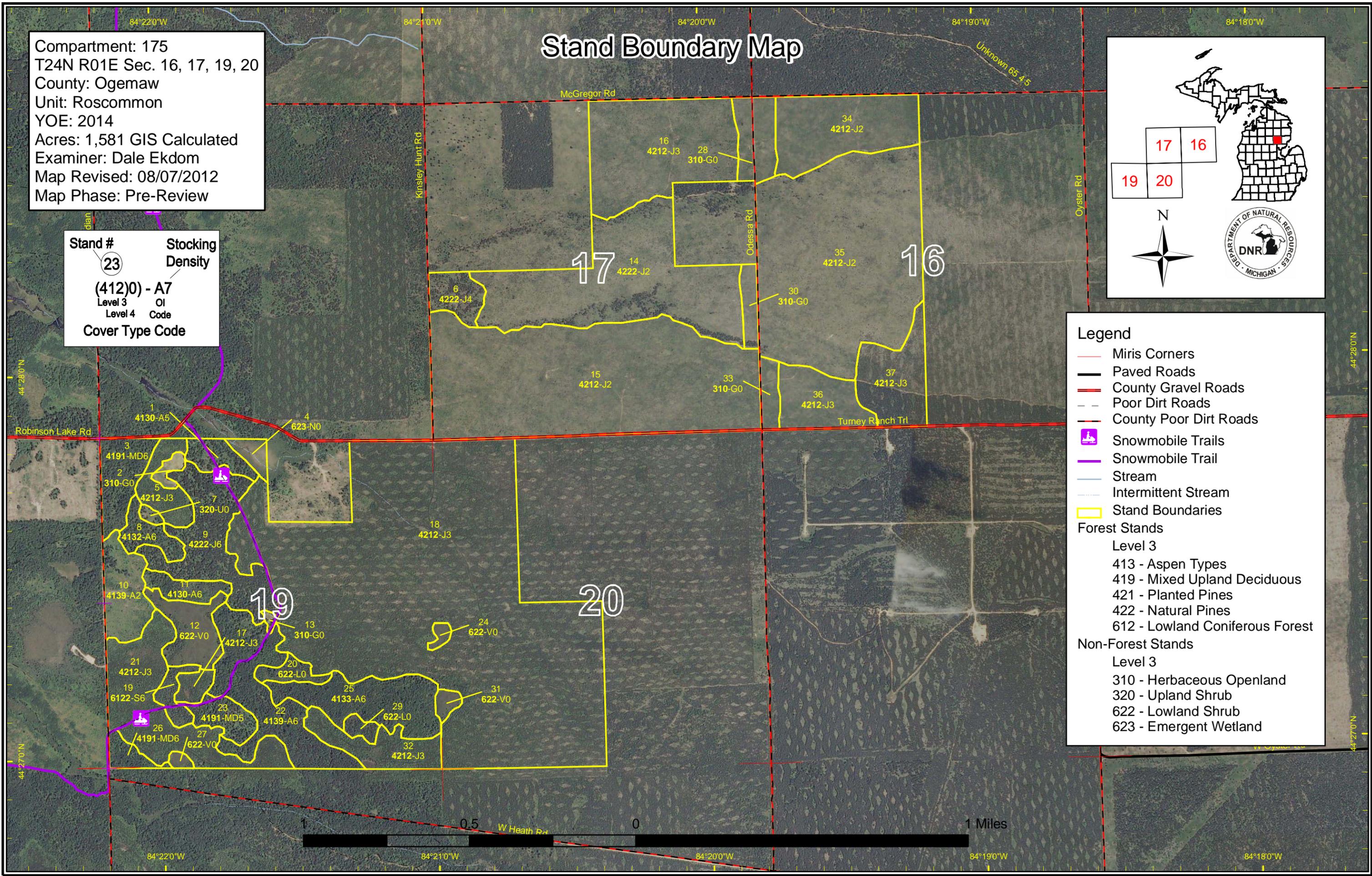
Stand Boundary Map

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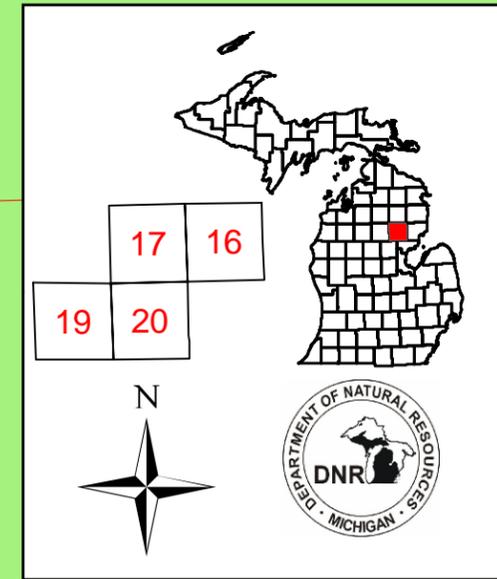
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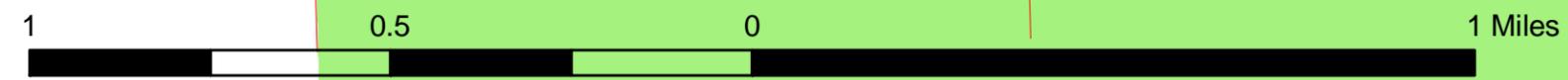
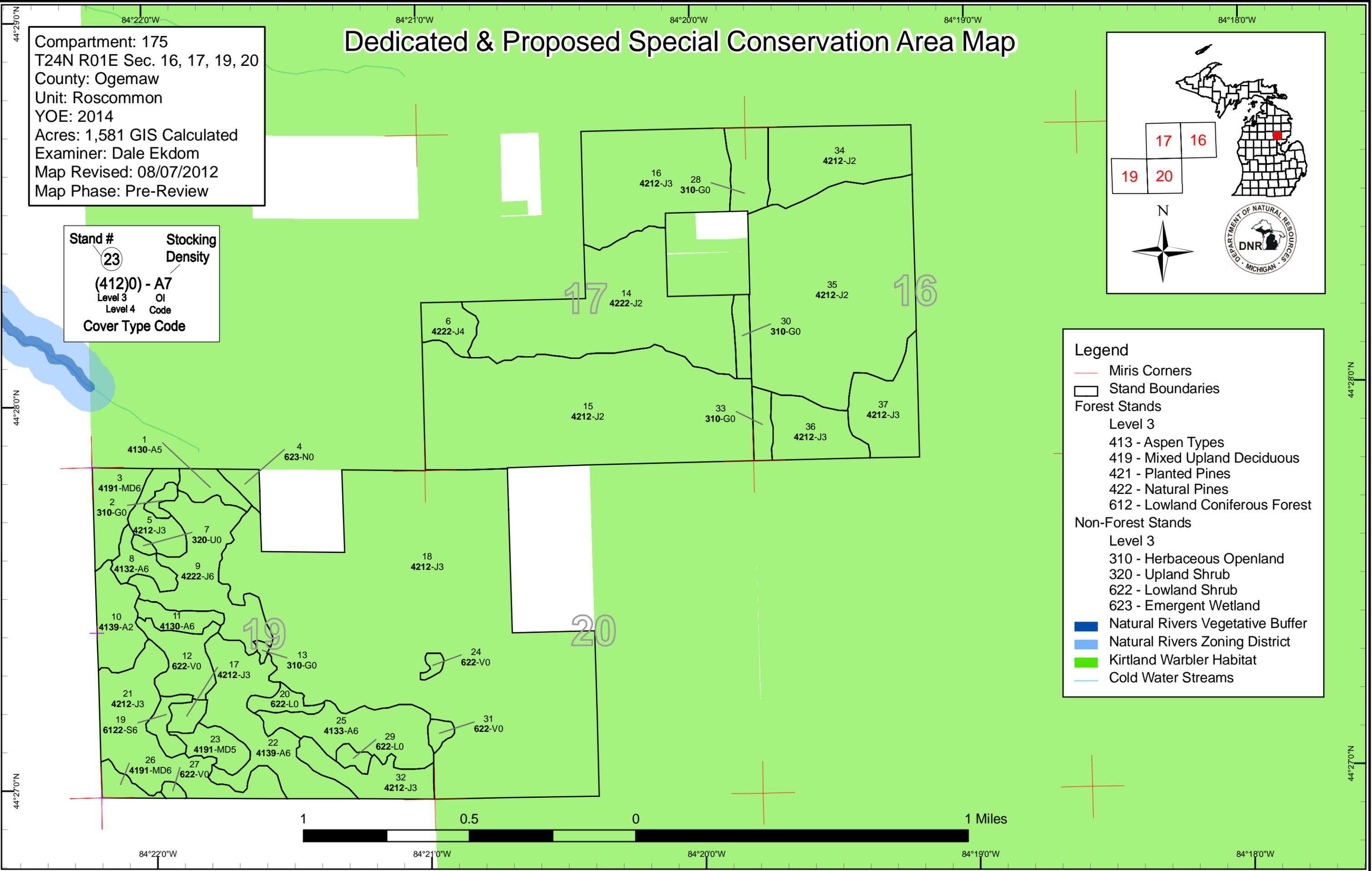
Dedicated & Proposed Special Conservation Area Map

Compartment: 175
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 - Natural Rivers Vegetative Buffer
 - Natural Rivers Zoning District
 - Kirtland Warbler Habitat
 - Cold Water Streams



84°22'0"W 84°21'0"W 84°20'0"W 84°19'0"W 84°18'0"W

44°29'0"N
 44°28'0"N
 44°27'0"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	23	0	0	0	124	0	0	0	0	0	0	0	0	0	147
Bog	29	0	0	0	0	0	0	0	0	0	0	0	0	0	29
Herbaceous Openland	39	0	0	0	0	0	0	0	0	0	0	0	0	0	39
Jack Pine	266	937	34	0	51	0	0	0	0	0	0	0	0	13	1301
Lowland Shrub	11	0	0	0	0	0	0	0	0	0	0	0	0	0	11
Lowland Spruce/Fir	0	0	0	0	0	0	7	0	0	0	0	0	0	0	7
Marsh	5	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Mixed Upland Deciduous	0	0	0	0	39	0	0	0	0	0	0	0	0	0	39
Upland Shrub	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Total	375	937	34	0	215	0	7	0	0	0	0	0	0	13	1581



Table 2 – Proposed Treatment Summaries

Roscommon Mgt. Unit
Year of Entry 2014

Compartment 175
Total Compartment Acres: 1581

Acres by Treatment Type

Commercial Harvest - 83	Site Prep - 0	Tree Planting - 0	Prescribed Burn - 0	Other - 0
Habitat Cut - 0	Opening Maintenance - 4	Tree Seeding - 0	Pesticide - 0	

Cover Type by Harvest Method

		Clearcut	Selection	Seed Tree	Shelterwood	Thinning	Other - Specify	Total Acres
Aspen	20	0	0	0	0	0	0	20
Jack Pine	51	0	0	0	0	0	0	51
Mixed Upland Deciduous	12	0	0	0	0	0	0	12
Total	83	0	0	0	0	0	0	83



S t a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
1	71175001-Cut	10.0	4130 - Aspen	Medium Density Pole	44		Harvest	Clearcut with Reserves	4131 - Aspen, Oak	Cmpt. Review Proposal
<u>Prescription</u> final harvest and manage for aspen, buffer drainage to the north and wildlife opening on the southwest for retention, mark large crowned oak for <u>Specs:</u> mast/ retention/visuals/diversity <u>Other</u> dormant season cut to increase sprouting in the spring, accept whatever regeneration results, minimize hauling on the SMT during snowmobile <u>Comments:</u> season as much as possible and use appropriate SMT protections, extend cut into Compartment 172 as desired when running red lines <u>Next</u> <u>Steps:</u> <u>Proposed</u> <u>Start Date:</u> 10/01/2013										
9	71175009-Cut	51.2	42220 - Natural Jack Pine	High Density Pole	49		Harvest	Clearcut with Reserves	42111 - Planted Red Pine, Mixed Deciduous	Cmpt. Review Proposal
<u>Prescription</u> final harvest and plant RP, buffer managed opening on the northwest and camping area on the southeast for retention, mark some large crowned <u>Specs:</u> oak for mast/visual/retention/diversity <u>Other</u> <u>Comments:</u> <u>Next</u> trench and plant RP <u>Steps:</u> <u>Proposed</u> <u>Start Date:</u> 10/01/2013										
11	71175011-Cut	9.8	4130 - Aspen	High Density Pole	49		Harvest	Clearcut with Reserves	4131 - Aspen, Oak	Cmpt. Review Proposal
<u>Prescription</u> final harvest and manage for aspen, buffer bog/lowland shrub stand to the south as appropriate for retention, mark a few large crowned oaks for <u>Specs:</u> mast/retention/diversity if found <u>Other</u> cut in dormant season and accept whatever regeneration results, minimize hauling on SMT during snowmobile season as much as possible and <u>Comments:</u> use appropriate SMT protection specs <u>Next</u> <u>Steps:</u> <u>Proposed</u> <u>Start Date:</u> 10/01/2013										
23	71175023-Cut	12.1	4191 - Mixed Upland Deciduous with Conifer	Medium Density Pole	44		Harvest	Clearcut with Reserves	4133 - Aspen, Mixed Pine	Cmpt. Review Proposal
<u>Prescription</u> final harvest and manage for aspen/mixed pine, mark large crowned oaks for mast/retention/diversity/visual and also some well formed RP <u>Specs:</u> especially if along SMT for visuals, leave all WP for diversity/visual <u>Other</u> cut during dormant season and accept whatever regeneration results, minimize hauling on the <u>Comments:</u> SMT during the snowmobile season and use appropriate SMT protection specs. <u>Next</u> <u>Steps:</u> <u>Proposed</u> <u>Start Date:</u> 10/01/2013										

**Table 3 -- Treatments Prescribed
with No Limiting Factor**



S t a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
2	NF_71175002- NonFor	3.5	310 - Herbaceous Openland				Non-Forest Management	Other - Specify	31021 - Cool Season Grass	Cmpt. Review Proposal
<u>Prescription</u> Opening Maintenance										
<u>Specs:</u>										
<u>Other</u>										
<u>Comments:</u>										
<u>Next</u>										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> Unspecified										
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Total Treatment Acreage Proposed:		86.6								

Table 4 -- Treatments Prescribed with
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Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
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#Error

Prescription
Specs:

Other
Comment:

Next
Steps:

Proposed
Start Date: #Error

Limiting Factor and No
Treatment Reason

Total Treatment
Acreage Proposed: 0

Out of YOE -- Treatments
Prescribed with No Limiting Factor

Year of Entry: 2014



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

Other
Comments:

Next
Steps:

Proposed
Start Date: #Error

**Total Treatment
Acreage Proposed: 0**

Stand	Roscommon Mgt. Unit		5 – Forested Stands			Compartment: 175
	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Year of Entry: 2014
						General Comments:
1	4130 - Aspen	Medium Density Pole	10.0	44		mix of TA and JP with both declining, should be treated now and regenerated to aspen, KOTAR type is PARVVb and strand was not classified as KW in either the original or new plan, mark some oak or leave all oak for mast
3	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	20.8	40		cut to 4" in 1972, all species low quality but growing OK. R/W pine seems to be growing the best, look at next YOE for final harvest and make call at that time to manage for O/A or RP/Oak mix
5	42121 - Planted Jack Pine, Mixed Deciduous	High Density Sapling	15.1	16		planted/seeded JP with pockets of A3 and scattered oak regeneration
6	42220 - Natural Jack Pine	Low Density Pole	13.2	Uneven Age		back burned in 1998 Mech Fire, now has scattered O/S of JP with u.s. of JP and oak saps, older age take from original KWMP, younger age is YOO from fire
8	4132 - Aspen, Jack Pine	High Density Pole	10.6	40		similar to PI stand #10 but aspen appears to be 2 aged (1963 and 1972) and mor JP in this stand, smaller younger aspen will hold no problem, older/larger aspen should hold also, JP/Aspen poor quality but growing well
9	42220 - Natural Jack Pine	High Density Pole	51.2	49		natural jack pine with scattered small A6 clones and Oak SL, KOTAR type is PARVVb/Unknown and stand was not classified as KW habitat in the original KWMP, soils are Melita sands which are somewhat excessively drained, final harvest and plant RP if not KW habitat, mark oak or leave all oak for mast
10	4139 - Aspen, Mixed Deciduous	Medium Density	23.0	6		cut to 4" in 2006, mostly upland but has a few wetter spots on north and east sides, inclusion of W9 on NW corner (1 Ac), could trench/plant RP where TA failed to regenerate
11	4130 - Aspen	High Density Pole	9.8	49		TA/JP/BO stand, all species are poor quality and declining, scattered R/W pine poles and SL also, final harvest and mark a few oaks for mast and diversity, plant RP if aspen regeneration fails
14	42220 - Natural Jack Pine	Medium Density	118.4	14		natural jack pine from 1998 Mech Fire
15	42120 - Planted Jack Pine	Medium Density	205.7	10		seeded may 2002 to jack pine for KW, scattered oak saps also, east end is well stocked with mostly jack pine, west end is more sparse with more oak
16	42120 - Planted Jack Pine	High Density Sapling	81.9	10		seeded may 2002 to jack pine for KW
17	42120 - Planted Jack Pine	High Density Sapling	5.8	15		JP with scattered sparser/wetter areas and rim of JP/Oak poles, seeded in 1997 after 1995 cut
18	42121 - Planted Jack Pine, Mixed Deciduous	High Density Sapling	428.4	16		planted to jack pine for KW after fall 1994 cut



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Roscommon Mgt. Unit

5 – Forested Stands

Compartment: 175
Year of Entry: 2014

	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
19	6122 - Black Spruce	High Density Pole	7.4	62		wet swale with mainly black spruce and scattered RM/JP poles
21	42121 - Planted Jack Pine, Mixed Deciduous	High Density Sapling	58.8	15		mix of upland and wetter potholes, seeded to jack pine in 1997 after 1996 cut
22	4139 - Aspen, Mixed Deciduous	High Density Pole	54.2	49		TA poles with pockets heavy to oak SL/RM poles and scattered mixed pine thru-out stand, aspen doing OK and should hold until next YOE, scattered small potholes with standing water and cut by atleast 1 drainage
23	4191 - Mixed Upland Deciduous with Conifer	Medium Density Pole	12.1	44		mix of A/JP/Oak, all species are poor quality and declining, oak is quite a bit older than the A/JP, KOTAR Type is PARVHa/PArVVb, mark good oak seed trees for mast and RP SL for diversity, final harvest and plant RP where aspen does not regenerate, leave all WP for diversity
25	4133 - Aspen, Mixed Pine	High Density Pole	39.8	42		mix of TA/RM on the west end, more TA on the east end, scattered XL pines, consider treating next YOE
26	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	6.5	41		fairly equal mix of A/RM/O poles with some JP poles, aslo scattered oak/RM SL, appears to have had HW's and JP removed in 1971 cut, dry but hummocky ground with more RPSL on the south end, more of aRP site than a HW site as HW's are lower quality than the pine, consider final harvesting next YOE and trenching/planting RP
32	42120 - Planted Jack Pine	High Density Sapling	23.0	16		J3 stand, but appears to be not planted to the KW weave
34	42120 - Planted Jack Pine	Medium Density	52.2	5		planted to JP in May 2008 for KW
35	42120 - Planted Jack Pine	Medium Density	186.2	7		seeded to jack pine in June 2005, re-planted to jack pine in May 2006, scattered oak clumps, west end is less sparse than east 3/4's
36	42120 - Planted Jack Pine	High Density Sapling	28.0	5		cut spring 2007, planted 5/2008 to jack pine for KW
37	42120 - Planted Jack Pine	High Density Sapling	33.5	22		north part of this KW plantation underburned in the 1998 Mech Fire



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
2	310 - Herbaceous Openland	3.5	N/A	Unspecified	
4	6239 - Mixed Emergent Wetland	5.5	N/A	Unspecified	
7	3205 - Mixed Upland Shrub	1.8	No	Unspecified	
12	6225 - Bog	21.2	N/A	Unspecified	
13	3102 - Grass	1.1	No	Unspecified	grassy camping area
20	6229 - Mixed lowland shrub	6.9	No	Unspecified	lowland shrub with scattered conifer poles (mostly WP) and HW saps(mostly RM), heavy tag alder in spots
24	6225 - Bog	2.2	N/A	Unspecified	
27	6225 - Bog	1.9	N/A	Unspecified	
28	3105 - Mixed Upland Herbaceous	18.9	Yes	Low (NonForested)	fuelbreak with scattered JP/Oak saps and JP poles
29	622 - Lowland Shrub	3.8	N/A	Unspecified	
30	3102 - Grass	7.7	Yes	Low (NonForested)	fuelbreak with scattered JP/Oak saps
31	6225 - Bog	3.5	N/A	Unspecified	
33	3102 - Grass	7.7	Yes	Low (NonForested)	fuelbreak with scattered JP/oak saps



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.
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.
HCVA	Natural Rivers	There are two Natural Rivers datasets which are derived from spatial buffers set from an established and approved distance from the river centerlines. The Natural Rivers Zoning District is a 400 foot buffer for most Natural Rivers. The Vegetative Buffer ranges from 25 to 100 feet. To view specific Zoning Districts and Vegetative Buffers for each Natural River see the table located on the I:\Documentation\GDSE data folder.