

CADILLAC FOREST MANAGEMENT UNIT**COMPARTMENT REVIEW PRESENTATION****COMPARTMENT # 059 ENTRY YEAR: 2012****Compartment Acreage (GIS Acres): 434 County: Missaukee**

Revision Date: 10/11/2010 8:52 AM**Stand Examiner: Andy Church****Legal Description: T23N R6W Sec.13 T22N R5W Sec.5 T23N R5W Secs.22, 23****RMU (if applicable): 223****Management Goals:** Maintain a variety of cover types and age class diversity which favor a variety of game and non game species.**Soil and Topography:**

A wide variety of soils are present: Roscommon, lupton, tawas mucky peat. Brevort, sims, nester sandy loams. Montcalm, graycalm. Terrain is flat and wet.

Ownership Patterns, Development, and Land Use in and Around the Compartment: Ownership patterns were small parcels of agriculture land. Now, this area has reverted to grass as farming has stopped. Land use in and around this compartment is primarily hunting based.**Acquisitions:** None**Disposals:** None.**Unique, Natural Features (include only non-site specific and non-sensitive information):** Several osprey occurrences to E. Numerous bald eagle records to NE and SE. Great blue heron rookery about 0.75 mile to E in NW 1/4 of section 4; additional records to E and W. Grasshopper sparrow about 1 mile to E in SE 1/4 of section 4. Least bittern, yellow rail, black tern, and common moorhen to E. Blanding's turtle to S. River redhorse to E. Bigmouth shiner to N and W. Rainbow mussel to E.**Archeological, Historical, and Cultural Features (include only non-site specific and non-sensitive information):** Former prairie chicken area.**Special Management Designations or Considerations:** None**Watershed and Fisheries Considerations:****Wildlife Habitat Considerations:** Featured wildlife species are deer, ruffed grouse, woodcock, and grassland wildlife species. Parcels within this compartment was formerly acquired for prairie chicken management. Major management objectives are to maintain aspen and expand where possible, to develop age class diversity, manage for age classes of tag alders, and manage grasslands for a variety of game and non-game species. (L. Smith, 9/24/10)

Mineral Resource and Development Concerns and/or Restrictions: Surface sediments consist of fine textured glacial till. The glacial drift thickness varies between 400 and 600 feet. Beneath the glacial drift are the Pennsylvanian Grand River and Saginaw Formations. The Saginaw is quarried for clay/shale in other parts of the State. Most of the nearby gravel pits are associated with upland areas. The nearest gravel pit is in Section 25, T23N-R6W and potential in the compartment is thought to be limited. Enterprise Field lies to the northeast of these parcels. The field has produced over 4.7 million BO from the Devonian Richfield Formation. It is in secondary recovery operations currently. Section 5 and 13 are currently leased for oil & gas development. Section 22 & 23 are surface only.

Vehicle Access: Good access to all areas.

Survey Needs: None needed.

Recreational Facilities and Opportunities: Hunting.

Fire Protection: Initial attack response for this compartment is from the Houghton Lake Field Office. There are “no plow” zones within the compartment and on neighboring private lands. 10-6-10/BRA

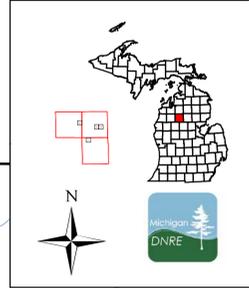
Additional Compartment Information: None

- **The following 5 reports from the Operations Inventory System (OIPC) are attached:**
 - ◆ **Cover Type by Age Class**
 - ◆ **Cover Type by Management Objective**
 - ◆ **Compartment Volume Summary**
 - ◆ **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 old growth**

Cover Type & Treatment Map

Compartment 59
 T22N, R05W, Sec. 5
 T23N, R05W, Sec. 22, 23
 T23N, R06W, Sec. 13
 County: Missaukee
 Unit: Cadillac
 YOY: 2012
 Acres: 434 acres GIS Calculated
 Stand Examiner: Andrew Church
 Map Revised: 9/9/2010
 Map Phase: Pre-Review



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

Legend

- Miris Corners
- Remonumented Section Corners
- Highway
- Paved Roads
- Poor Dirt Roads
- Trails
- Snowmobile Trails

Utility Lines

- Pipe
- Intermittent Stream/Drain
- Stream
- Lakes and Rivers

Treatments

- Clearcut (w/Reserves, Patch/Strip)

Forest Stands

Level 3

- 413 - Aspen Types
- 422 - Natural Pines
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest

Non-Forest Stands

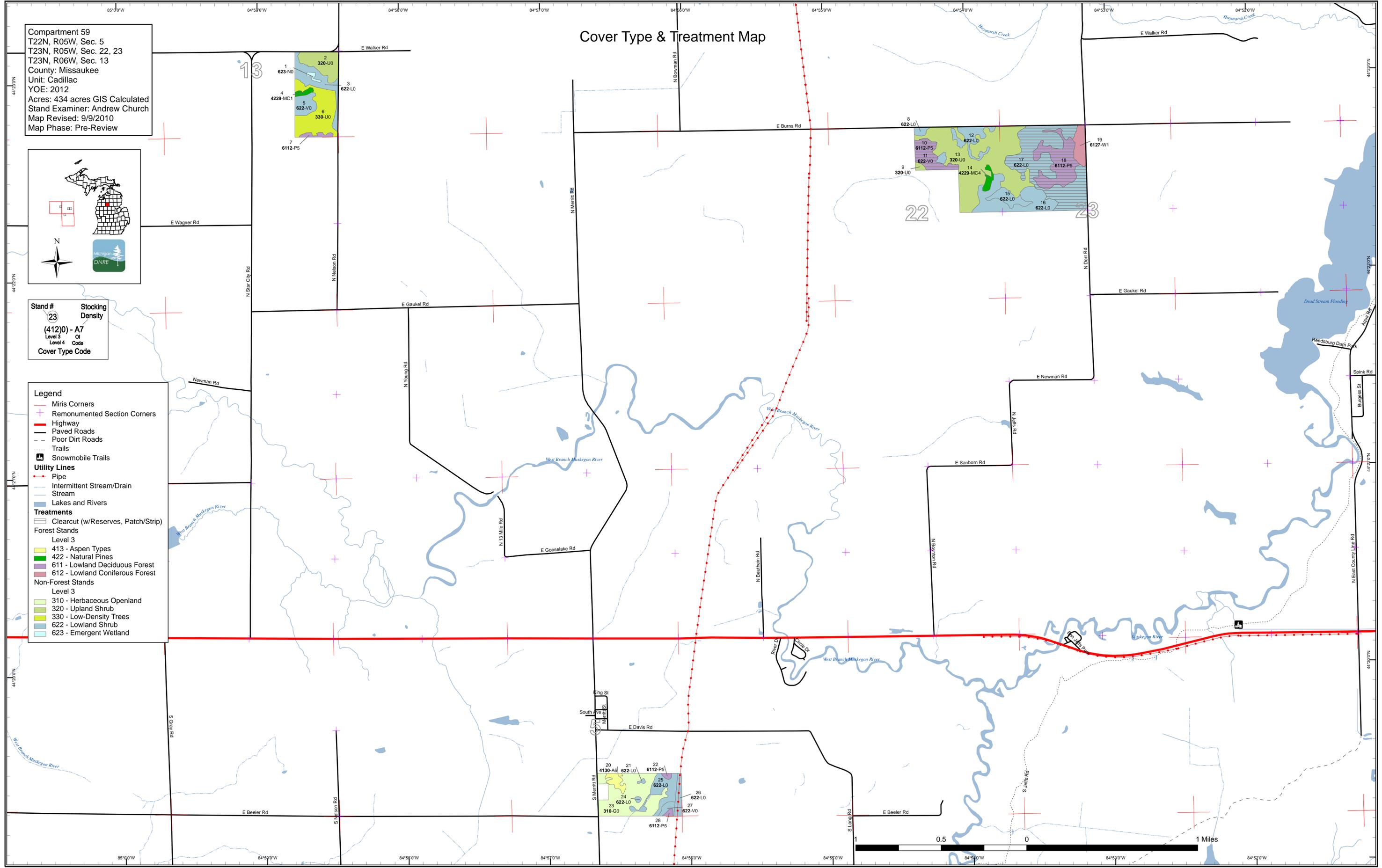
Level 3

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

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23

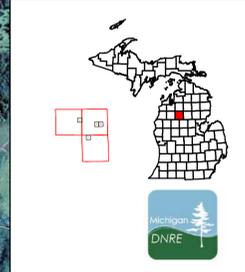


85°0'0"W 84°59'0"W 84°58'0"W 84°57'0"W 84°56'0"W 84°55'0"W 84°54'0"W 84°53'0"W 84°52'0"W

44°23'0"N 44°22'0"N 44°21'0"N 44°20'0"N

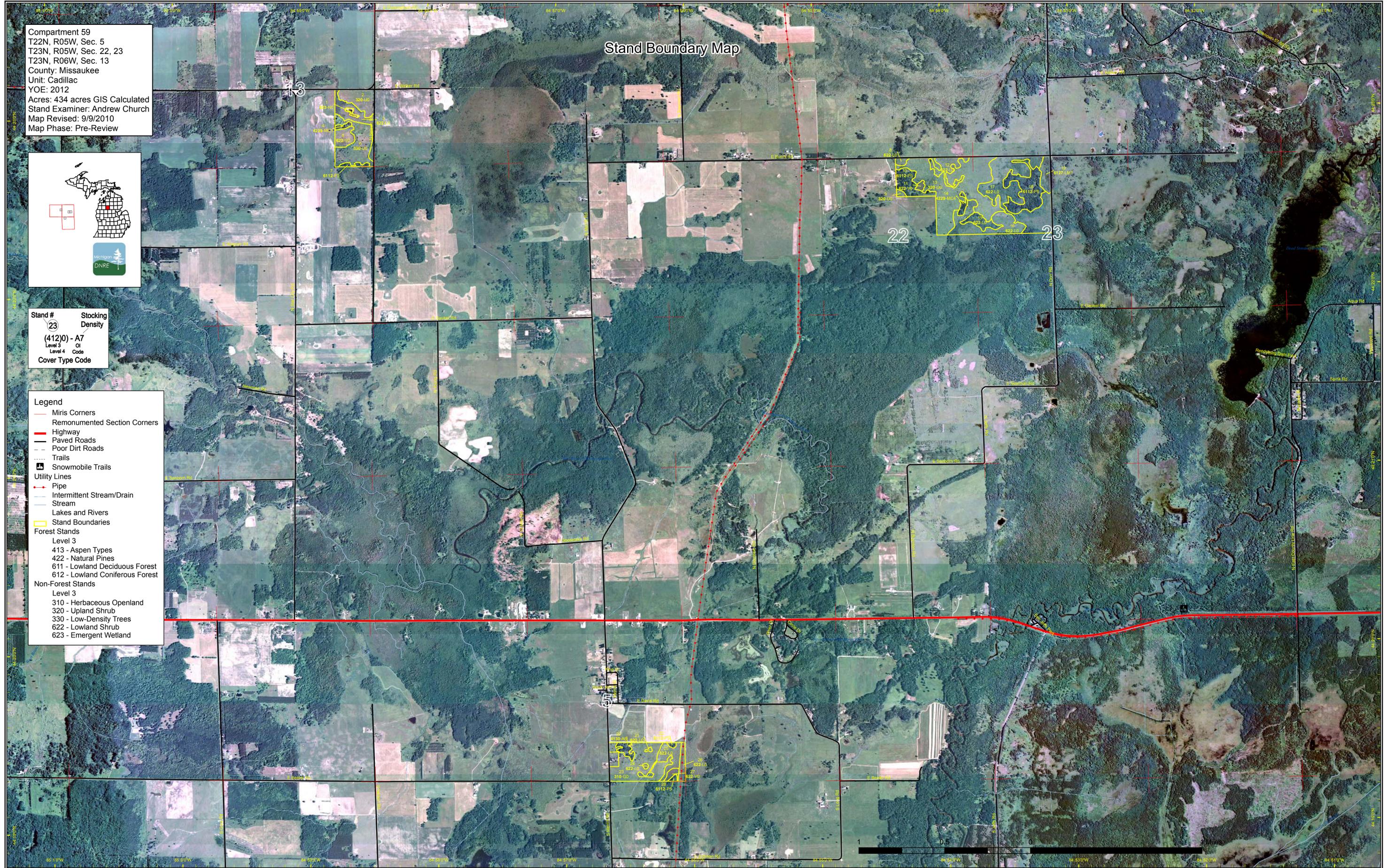
Stand Boundary Map

Compartment 59
T22N, R05W, Sec. 5
T23N, R05W, Sec. 22, 23
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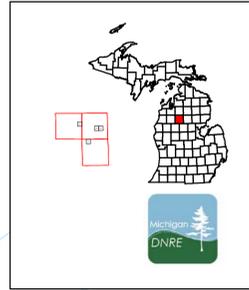
Stand # 23
Stocking Density
(4120) - A7
Level 3
Level 4 Code
Cover Type Code

- Legend**
- Miris Corners
 - Remonumented Section Corners
 - Highway
 - Paved Roads
 - Poor Dirt Roads
 - Trails
 - Snowmobile Trails
 - Utility Lines
 - Pipe
 - Intermittent Stream/Drain
 - Stream
 - Lakes and Rivers
 - Stand Boundaries
 - Forest Stands
Level 3
413 - Aspen Types
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611 - Lowland Deciduous Forest
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 - Non-Forest Stands
Level 3
310 - Herbaceous Openland
320 - Upland Shrub
330 - Low-Density Trees
622 - Lowland Shrub
623 - Emergent Wetland



Dedicated & Proposed Special Conservation Area Map

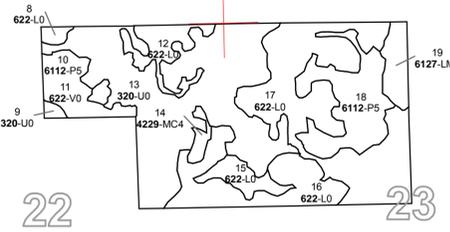
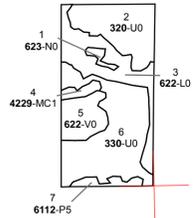
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 Map Phase: Pre-Review



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

- Legend**
- Miris Corners
 - Remonumented Section Corners
 - Proposed Special Conservation Areas**
 - SCA - Special Conservation Area
 - SCA Removal
 - Dedicated Special Conservation Areas**
 - Campgrounds
 - Boat Access Sites
 - Cold Water Streams
 - Wildlife Research Areas
 - Wildlife Management Areas
 - Stand Boundaries
 - Non-Forest Stands**
 - Level 3
 - 310 - Herbaceous Openland
 - 320 - Upland Shrub
 - 330 - Low-Density Trees
 - 622 - Lowland Shrub
 - 623 - Emergent Wetland
 - Forest Stands**
 - Level 3
 - 413 - Aspen Types
 - 422 - Natural Pines
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 - 612 - Lowland Coniferous Forest

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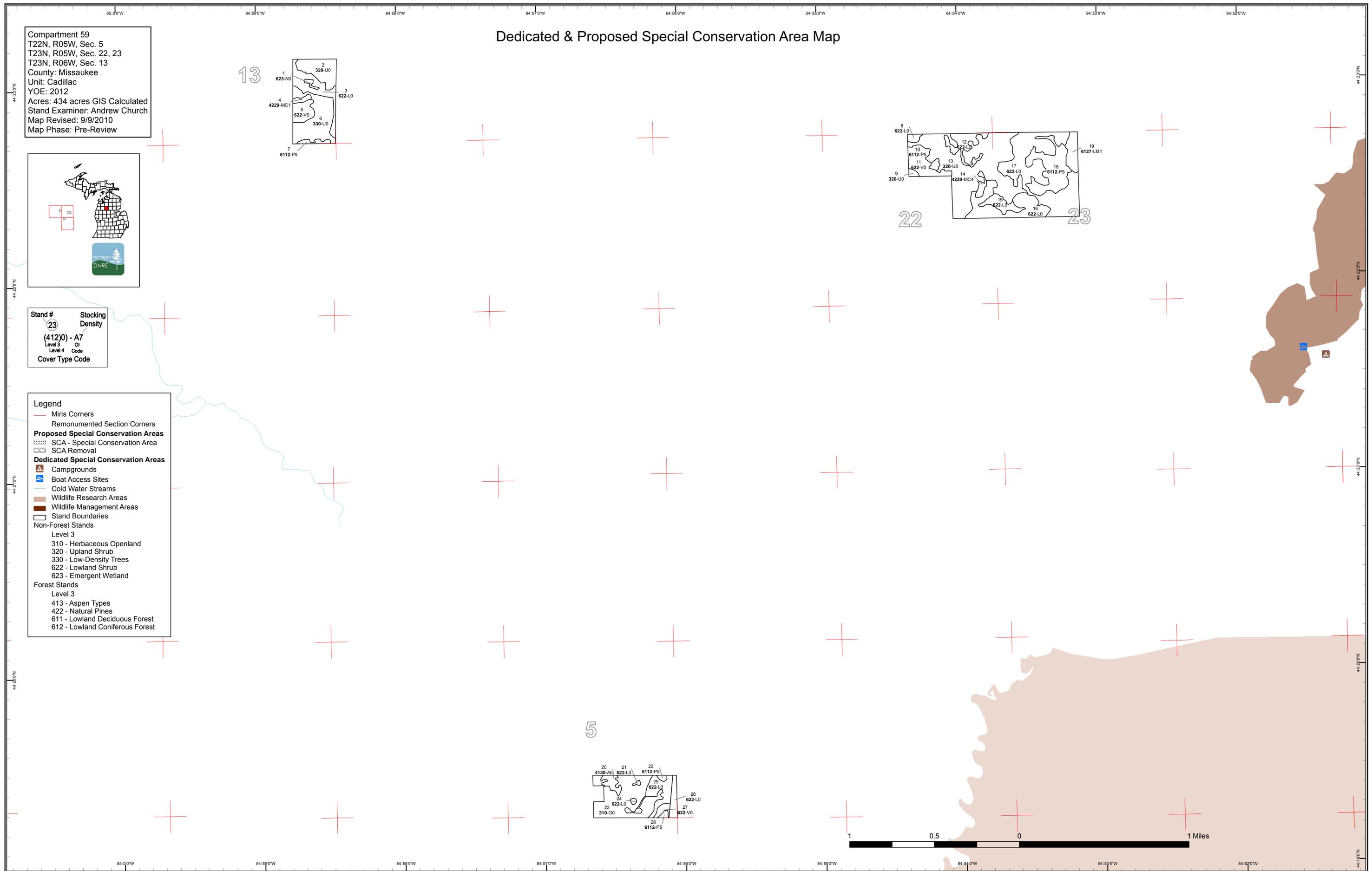
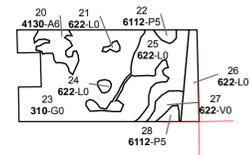


Table 1 – Total Acres by Cover Type and Age Class

Data updated yesterday after 6:00 PM



	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
Aspen	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	5
Bog	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13
Herbaceous Openland	44	0	0	0	0	0	0	0	0	0	0	0	0	0	0	44
Low-Density Trees	32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	32
Lowland Aspen/Balsam Poplar	0	0	0	0	5	30	0	0	0	0	0	0	0	0	15	50
Lowland Conifers	0	0	9	0	0	0	0	0	0	0	0	0	0	0	0	9
Lowland Shrub	161	0	0	0	0	0	0	0	0	0	0	0	0	0	0	161
Marsh	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Natural Mixed Pines	0	0	2	0	0	0	0	0	0	0	0	0	0	0	3	5
Upland Shrub	114	0	0	0	0	0	0	0	0	0	0	0	0	0	0	114
Total	365	0	11	0	5	30	0	23	434							



Table 2 – Proposed Treatment Summaries

Data updated yesterday after 6:00 PM

Cadillac Mgt. Unit
Year of Entry 2012

Compartment 059
Total Compartment Acres: 434.0

Acres by Treatment Type

Commercial Harvest - 0	Site Prep - 0	Tree Planting - 0	Prescribed Burn - 0	Other - 0
Habitat Cut - 115	Opening Maintenance - 0	Tree Seeding - 0	Pesticide - 0	

Cover Type by Harvest Method

	Clearcut	Selection	Seed Tree	Shelterwood	Thinning	Other - Specify	Total Acres
Lowland Aspen/Balsam Poplar	45	0	0	0	0	0	45
Lowland Shrub	70	0	0	0	0	0	70
Total	115	0	0	0	0	0	115



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Data updated yesterday after 6:00 PM

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:

**Total Treatment
Acreage Proposed: 0**

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Data updated yesterday after 6:00 PM

Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
10 63059010-Cut	15.2	6112 - Lowland Aspen	Medium Density Pole	48	Harvest	Clearcut	Lowland Aspen	Cmpt. Review Proposal

Prescription Final Harvest. Habitat cut.Specs:Other Too wet for commercial harvest. Tamarack around edges. Aspen declining.Comment:NextSteps:Limiting Factor and No 2F: Too wetTreatment Reason Too wet and low volume for commercial harvest.

18 63059018-Cut	30.1	6112 - Lowland Aspen	Medium Density Pole	43	Harvest	Clearcut	Lowland Aspen	Cmpt. Review Proposal
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Prescription Final Harvest. Habitat cut.Specs:Other Too wet for commercial harvest. Patches of Aspen clones throughout wet stand. Also bog pockets mixed within stand. Heavy Tag Alder understory.Comment:NextSteps:Limiting Factor and No 2F: Too wetTreatment Reason Too wet and low volume for commercial harvest. Habitat cut.

17 NF_63059017-Cut	69.8	Non-Forested		0	Harvest	Clearcut	Alder/willow	Cmpt. Review Proposal
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Prescription Final Harvest. Habitat cut.Specs:Other Large drainage. Small Bog pockets throughout. Wildlife division would like to treat Tag Alder.Comment:NextSteps:Limiting Factor and No 4A: No market for species/productTreatment Reason Habitat cut the Tag Alder.

**Total Treatment
Acreage Proposed: 115.0**

Data updated yesterday after 6:00 PM

**Out of YOE -- Treatments
Prescribed with No Limiting Factor**

Year of Entry: 2012



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:

**Total Treatment
Acreage Proposed: 0**

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Cadillac Mgt. Unit

5 – Forested Stands

Compartment: 059
Year of Entry: 2012

Data updated yesterday after 6:00 PM

	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
4	42290 - Natural Mixed Pine	Low Density Sapling	2.0	18		Pockets of Scotch Pine with planted Spruce
7	6112 - Lowland Aspen	Medium Density Pole	2.5	38	1-50	Lowland Aspen stand. Aspen is declining. Need property line established. Thick understory of Red Maple.
10	6112 - Lowland Aspen	Medium Density Pole	15.2	Uneven Age	1-50	Too wet for commercial harvest. Tamarack around edges. Aspen declining.
14	42290 - Natural Mixed Pine	Low Density Pole	3.1	Uneven Age	1-50	Naturally seeding Pines with Aspen pocket to South. Even mix of Scotch, White, and Jack Pine.
18	6112 - Lowland Aspen	Medium Density Pole	30.1	43	1-50	Too wet for commercial harvest. Patches of Aspen clones throughout wet stand. Also bog pockets mixed within stand. Heavy Tag Alder understory. Aspen will hold one more rotation.
19	6127 - Lowland Pine	Low Density Sapling	9.2	18		Mostly lowland with upland areas. West half of stand is sapling pine, East half mostly Tag Alder. Pine filling in the drier areas.
20	4130 - Aspen	High Density Pole	4.7	Uneven Age	1-50	Varying ages of Aspen. 10-40 years old. Quaking Aspen is declining, while Big Tooth is healthy. Very patchy with upland openings. Aspen saplings filling in openings. Low volumes for commercial harvest.
22	6112 - Lowland Aspen	Medium Density Pole	1.0	36	51-80	Small, poor quality Aspen clone.
28	6112 - Lowland Aspen	Medium Density Pole	1.1	36	1-50	Small, poor quality Aspen patch.



Stand	Cover Type	Acres	Gen Cmts:
1	6230 - Cattail	1.2	Water with cattails
2	3205 - Mixed Upland Shrub	17.6	Mostly grass with scattered Scotch Pine and White Pine seeding in. A couple Apple trees on East side.
3	6220 - Alder/willow	16.9	Tag Alder and Cattails throughout. Manmade ditch running through middle.
5	6225 - Bog	8.7	Leatherleaf and Bog Laurel.
6	3302 - Low Density Conifer Trees	31.5	Mostly Grassland with Pin Cherry and Scotch Pine seeding in naturally. Some planted Spruce throughout.
8	6220 - Alder/willow	2.2	
9	3205 - Mixed Upland Shrub	1.4	Mostly upland grasses with patches of Tag Alder. Some White Pine and Scotch Pine seeding in naturally. Also some scattered planted Spruce.
11	6225 - Bog	1.7	Bog
12	6220 - Alder/willow	12.4	
13	3205 - Mixed Upland Shrub	94.7	Mostly upland grasses with patches of Tag Alder. Some White Pine and Scotch Pine seeding in naturally. Also scattered planted Spruce throughout.
15	6220 - Alder/willow	8.3	Mostly Tag Alder with scattered Aspen in overstory. Very little Aspen in stand.
16	6229 - Mixed lowland shrub	30.5	
17	6229 - Mixed lowland shrub	69.8	Large drainage. Small Bog pockets throughout.
21	6220 - Alder/willow	0.5	Willow
23	3102 - Grass	43.9	Willow pockets throughout. Hawthorn, Cherry, Autumn Olive, and Pine scattered. Appears to be a trespass on West side of stand. However, with no corners, it's difficult to say for sure.
24	6220 - Alder/willow	0.6	Willow
25	6220 - Alder/willow	14.5	Wet.



Stand	Cover Type	Acres	Gen Cmts:
26	6220 - Alder/willow	5.7	Pipeline.
27	6225 - Bog	2.8	Bog



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.

Data updated yesterday after 6:00 PM

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.

Data updated yesterday after 6:00 PM

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

Conservation Area	Type	Description
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