



**Gwinn Forest Management Unit
Compartment Review Presentation
Compartment 202 Entry Year: 2014
Compartment Acreage: 725 County: Marquette**

Revision Date: 8/20/12

Stand Examiner: Dean Wilson

Legal Description: T50N-R26W, Sections 18 and 20
T50N-R27W, Sections 1, 2, 9, 10, and 11

RMU (if applicable): Huron Mountains Management Area

Management Goals: Mixed Use

Soil and Topography: Soils range from alluvial in the Yellow Dog River floodplain to Sandy outwash to loamy sands to sandy loams. Topography ranges from level to hilly with moderate to steep slopes.

Ownership Patterns, Development, and Land Use in and Around the Compartment: State ownership in this area is primarily surrounded by non-industrial private ownerships some of which are residential. Corporate lands occur to the north and south of the portions of this compartment east of County Road 550. Land use is primarily for forest production and passive recreation.

Unique, Natural Features: Granite Bedrock Glade (*see MNFI database*). Potential for red-shouldered hawk in northern hardwood stands and potential for wood turtle along Yellow Dog River and Johnson Creek.

Archeological, Historical, and Cultural Features: Evidence of old white pine logging camps exist along the river. Log slides where the pine logs were fed into the river are still visible.

Special Management Designations or Considerations: Management planning will be designed to protect the Yellow Dog River and its tributaries. Working with the Marquette County Watershed Initiative and the Yellow Dog River Watershed Preserve people, some erosion control measures have been installed on the river.

Watershed and Fisheries Considerations: The Yellow Dog River, a blue ribbon trout stream, flows through this compartment. Protect the Yellow Dog River from possible sedimentation and maintain its water quality.

Wildlife Habitat Considerations: Harvest mature aspen to maintain this valuable habitat type. Provide "potential old growth" along stream corridors. Optimize diversity in the treated northern hardwood stands. Featured species include American marten, blackburnian warbler, and white-tailed deer.

Mineral Resource and Development Concerns and/or Restrictions: Surface sediments consist of coarse-textured glacial till. The glacial drift thickness varies between 10 and 50 feet and insufficient data to determine the thickness. The Precambrian Jacobsville Sandstone and Archean Granite/Gneiss subcrop below the glacial drift. These rocks have or could be used for building or dimension stone. Gravel pits are located in the area and potential appears to be good. Silver Mine Lake is located eight miles to the south. This

compartment was not previously leased for metallic exploration. There is no economic oil and gas production in the UP.

Vehicle Access: Is good west of County Road 550 and limited on State lands east of this road.

Survey Needs: None.

Recreational Facilities and Opportunities: There is no potential for developed recreation in this compartment. Opportunities are limited to passive uses of the land.

Fire Protection: No special concerns; however, with the residences and camps around this compartment, there are structure protection issues and increased likelihood of human-caused ignitions.

Additional Compartment Information:

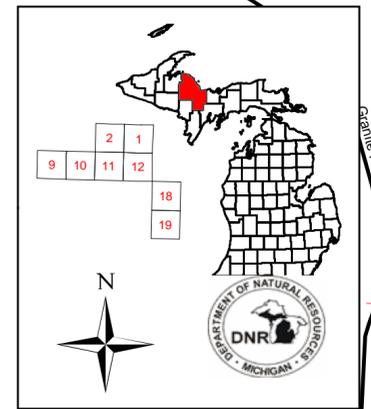
- **The following reports from the Inventory are attached:**
 - ◆ **Total Acres by Cover Type and Age Class**
 - ◆ **Proposed Treatment Summary**
 - ◆ **Proposed Treatments – No Limiting Factors**
 - ◆ **Proposed Treatments – With Limiting Factors**
 - ◆ **Stand Details (Forested and Nonforested)**
 - ◆ **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: 202
 T50N R26W Sec. 18, 19
 T50N R27W Sec. 1, 2, 9, 10, 11, 12
 County: Marquette
 Unit: Gwinn
 YOE: 2014
 Acres: 725 GIS Calculated
 Examiner: Dean Wilson
 Map Revised: 08/28/2012
 Map Phase: Pre-Review

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



Legend

- Survey Grade
- Remonumented Section 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
- Stream
- Intermittent Stream
- Snowmobile Trails
- Snowmobile Trail
- Lakes and Rivers
- State Forest Land

Treatments

- Clearcut (w/Reserves, Patch/Strip)

Forest Stands

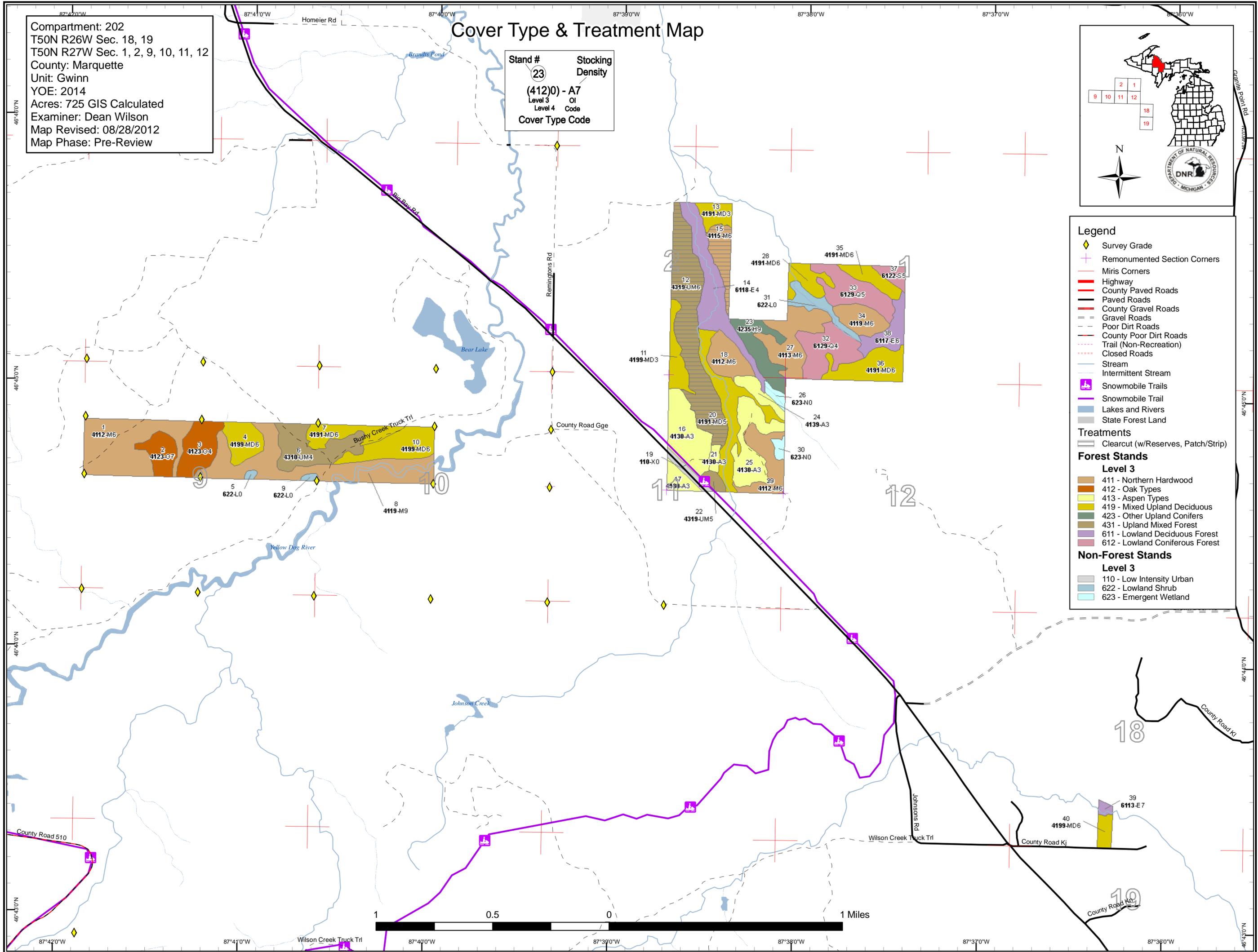
Level 3

- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 423 - Other Upland Conifers
- 431 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest

Non-Forest Stands

Level 3

- 110 - Low Intensity Urban
- 622 - Lowland Shrub
- 623 - Emergent Wetland



Stand Boundary Map

Compartment: 202
 T50N R26W Sec. 18, 19
 T50N R27W Sec. 1, 2, 9, 10, 11, 12
 County: Marquette
 Unit: Gwinn
 YOY: 2014
 Acres: 725 GIS Calculated
 Examiner: Dean Wilson
 Map Revised: 05/16/2012
 Map Phase: Pre-Review

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



Legend

- Survey Grade
- Remonumented Section 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
- Stream
- Intermittent Stream
- Snowmobile Trails
- Snowmobile Trail
- Stand Boundaries

Forest Stands

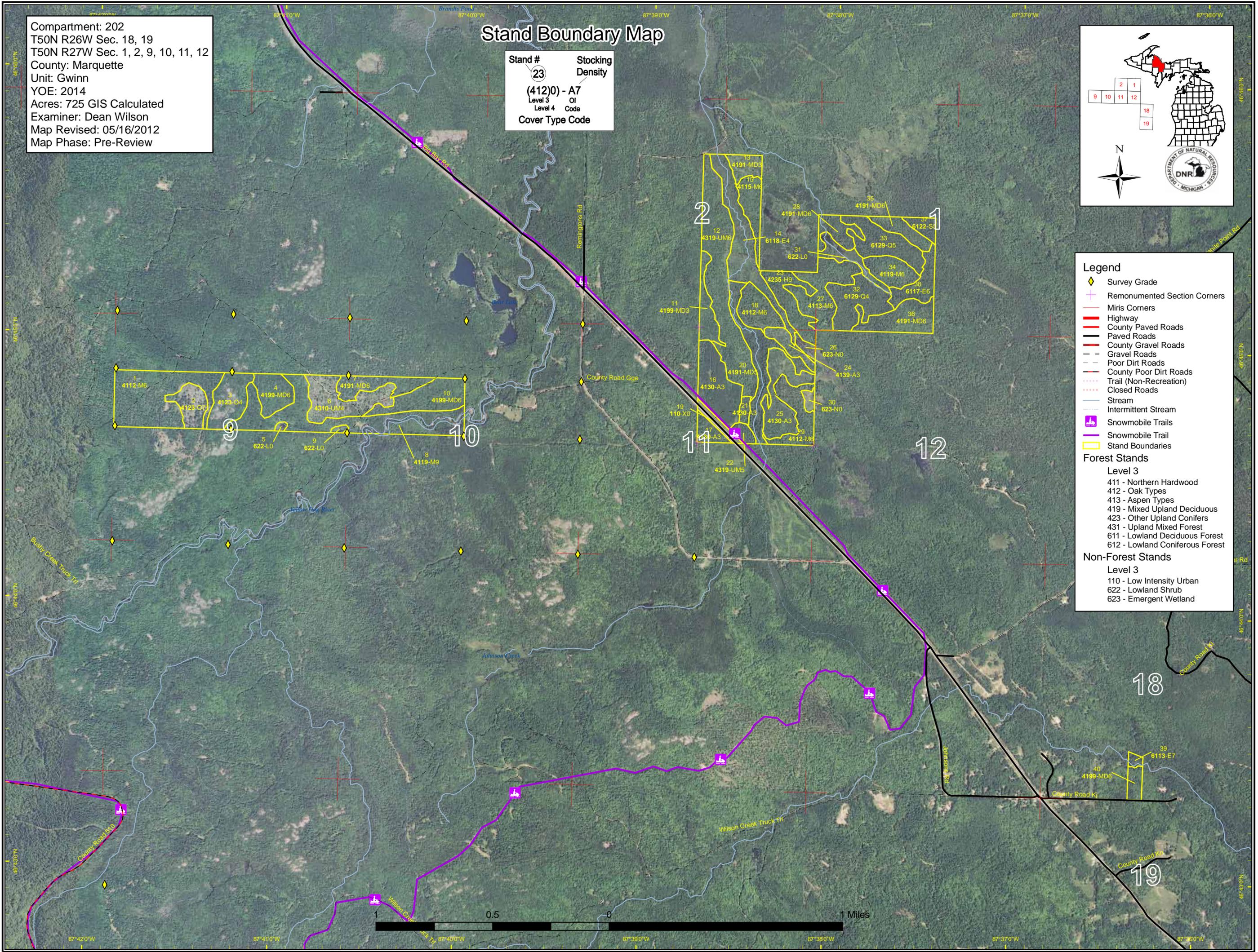
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Non-Forest Stands

Level 3

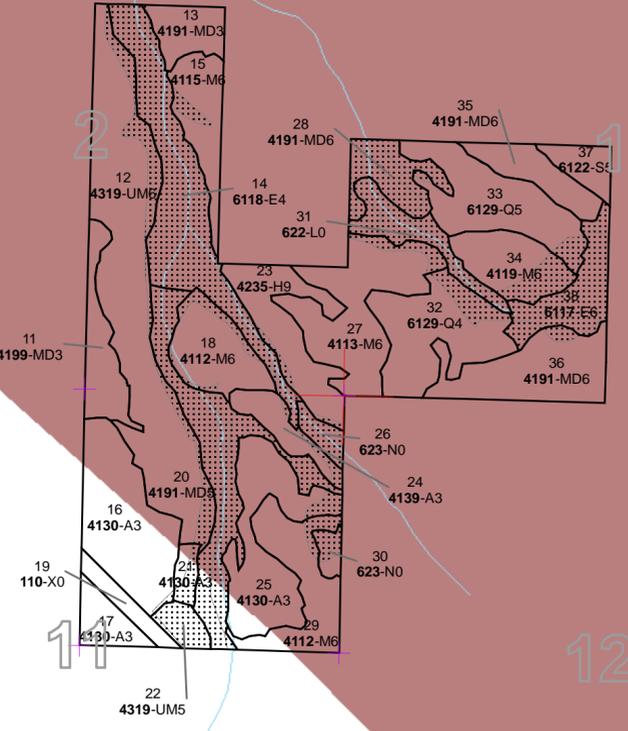
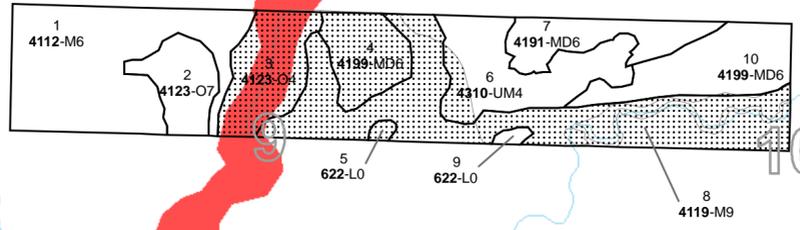
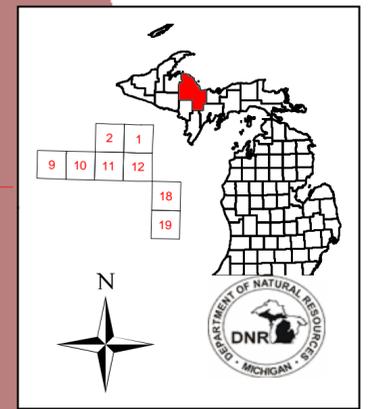
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Dedicated & Proposed Special Conservation Area Map

Compartment: 202
 T50N R26W Sec. 18, 19
 T50N R27W Sec. 1, 2, 9, 10, 11, 12
 County: Marquette
 Unit: Gwinn
 YOE: 2014
 Acres: 725 GIS Calculated
 Examiner: Dean Wilson
 Map Revised: 08/28/2012
 Map Phase: Pre-Review

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



Legend

- + Remonumented Section Corners
- Miris Corners
- Stand Boundaries
- Proposed Special Conservation Areas
- ▨ SCA - Special Conservation Area
- ▩ Dedicated Special Conservation Areas
- Cold Water Streams
- Ecological Reference Areas
- Deer Wintering Areas

Forest Stands

Level 3

- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen Types
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Non-Forest Stands

Level 3

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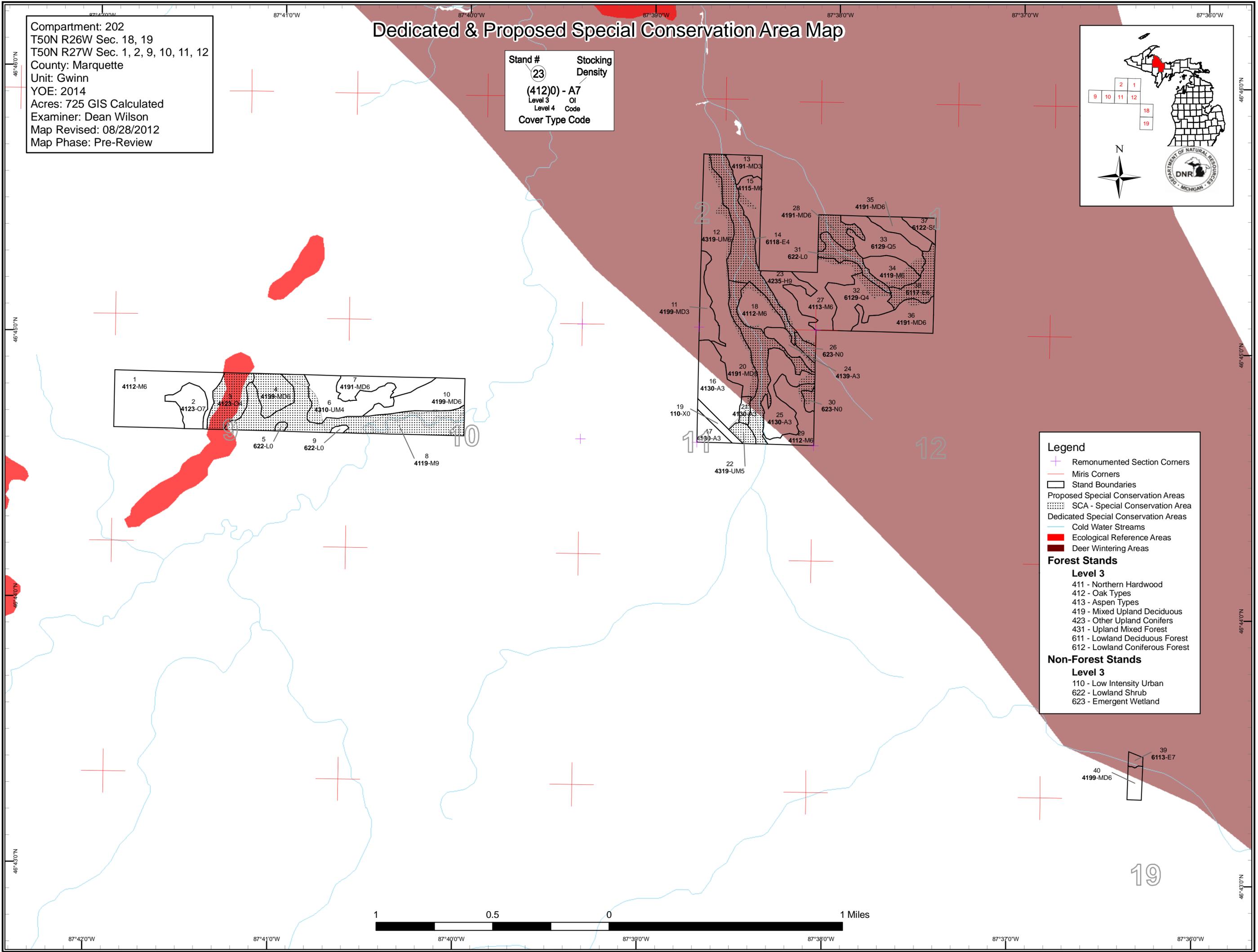


Table 1 – Total Acres by Cover Type and Age Class



	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	44	29	0	0	0	0	0	0	0	0	0	0	0	0	74
Hemlock	0	0	0	0	0	0	0	0	20	0	0	0	0	0	20
Lowland Conifers	0	0	0	0	0	0	0	0	51	0	0	0	0	0	51
Lowland Deciduous	0	0	0	0	0	0	0	37	16	0	0	0	0	0	53
Lowland Shrub	13	0	0	0	0	0	0	0	0	0	0	0	0	0	13
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	6	0	0	0	0	0	6
Marsh	6	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Mixed Upland Deciduous	0	9	12	0	0	0	17	0	119	0	0	0	0	0	157
Northern Hardwood	0	0	0	0	0	0	0	0	94	116	0	0	0	0	210
Oak	0	0	0	0	0	0	0	0	0	34	0	0	0	0	34
Upland Mixed Forest	0	0	0	0	0	0	4	0	65	29	0	0	0	0	98
Urban	5	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Total	68	38	12	0	0	0	21	37	371	179	0	0	0	0	725



Table 2 – Proposed Treatment Summaries

Gwinn Mgt. Unit
Year of Entry 2014

Compartment 202
Total Compartment Acres: 725.5

Acres by Treatment Type

Commercial Harvest - 78	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
Northern Hardwood	14	0	0	0	0	0	14
Upland Mixed Forest	65	0	0	0	0	0	65
Total	78	0	0	0	0	0	78



Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
12	32202012-Cut	64.8	4319 - Mixed Upland Forest	High Density Pole	80	111-140	Harvest	Clearcut with Reserves	4319 - Mixed Upland Forest	Cmpt. Review Proposal
<p><u>Prescription</u> Partially cut all species excluding hemlock, white pine, yellow birch, and cedar. No chipping.</p> <p><u>Specs:</u></p> <p><u>Other Comments:</u> Consider leaving portions of this stand along stand 14 where the creek is within 300 feet of the type line.</p> <p><u>Next Steps:</u> Check for regeneration per work instructions.</p> <p><u>Proposed Start Date:</u> 10/01/2013</p>										
15	32202015-Cut	13.6	4115 - Y.Birch, Hemlock NH	High Density Pole	80	81-110	Harvest	Clearcut with Reserves	4115 - Y.Birch, Hemlock NH	Cmpt. Review Proposal
<p><u>Prescription</u> Partially cut all tree species excluding hemlock, yellow birch, cedar, and pines if present. No chipping.</p> <p><u>Specs:</u></p> <p><u>Other Comments:</u> Harvest along with stand 12.</p> <p><u>Next Steps:</u> Check for regeneration per work instructions.</p> <p><u>Proposed Start Date:</u> 10/01/2013</p>										
Total Treatment Acreage Proposed:		78.4								

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
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Prescription
Specs:

Other
Comments:

Next
Steps:

Proposed
Start Date: #Error

**Total Treatment
Acreage Proposed: 0**

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Gwinn Mgt. Unit

5 – Forested Stands

Compartment: 202
Year of Entry: 2014

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	4112 - Maple, Beech, Cherry Association	High Density Pole	53.4	90	81-110	Selectively cut in 2012: TS#316-06-01.
2	4123 - Red Oak	Low Density Log	13.6	95	1-50	Oak shelterwood cut in 2010: TS#316-06-01.
3	4123 - Red Oak	Low Density Pole	20.4	95	1-50	SCA = Designated acid rock glen by MNFI.
4	4199 - Other Mixed Upland Deciduous	High Density Pole	15.3	80	81-110	SCA = Riparian zone protection for the Yellow Dog River, it's watershed and tributaries.
6	4310 - Pine, Oak Mix	Low Density Pole	28.7	95	1-50	Harvested in 2010 using the seed tree method: TS#316-06-01.
7	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	16.5	67	51-80	
8	4119 - Mixed Northern Hardwoods	High Density Log	62.6	90	81-110	SCA = Riparian zone protection for the Yellow Dog River including it's bottom lands and flood plains.
10	4199 - Other Mixed Upland Deciduous	High Density Pole	24.5	80	81-110	
11	4199 - Other Mixed Upland Deciduous	High Density Sapling	12.0	24		Stand resulted from a major windthrow event in 1988. Heavy to aspen in the south grading to mixed hardwood to the north.
12	4319 - Mixed Upland Forest	High Density Pole	64.8	80	111-140	Retain hemlock, yellow birch, white pine, and cedar.
13	4191 - Mixed Upland Deciduous with Conifer	High Density Sapling	8.7	10		
14	6118 - Lowland Deciduous with Cedar	Low Density Pole	36.9	70	1-50	SCA = Riparian zone protection for the Johnson Creek. Stand includes the creek and it's associated bottomlands as well as beaver floodings and meadows.
15	4115 - Y.Birch, Hemlock NH	High Density Pole	13.6	80	81-110	Retain hemlock, yellow birch, cedar, and white pine if found.
16	4130 - Aspen	High Density Sapling	29.2	16		Cut in 1996: TS# 16-95.
17	4130 - Aspen	High Density Sapling	6.9	5		Cut in 2007: TS# 123-04-01.
18	4112 - Maple, Beech, Cherry Association	High Density Pole	16.4	89	51-80	Selectively cut in 2007: TS# 123-04-01.
20	4191 - Mixed Upland Deciduous with Conifer	Medium Density Pole	29.9	80	51-80	SCA = Riparian zone and bottomlands of the Johnson Creek.
21	4130 - Aspen	High Density Sapling	3.1	5		Cut in 2007: TS# 123-04-01.

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Gwinn Mgt. Unit

5 – Forested Stands

Compartment: 202
Year of Entry: 2014

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
22	4319 - Mixed Upland Forest	Medium Density Pole	4.3	67	51-80	SCA = Riparian zone protection for the Johnson Creek. Contains drains and spring seeps that feed the creek.
23	42350 - Upland Hemlock	High Density Log	19.7	89	111-140	
24	4139 - Aspen, Mixed Deciduous	High Density Sapling	7.9	5		Harvested in 2007: TS# 123-04-01.
25	4130 - Aspen	High Density Sapling	26.4	5		Cut in 2007: TS# 123-04-01.
27	4113 - R.Maple, Conifer	High Density Pole	30.2	89	81-110	
28	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	11.2	89	81-110	SCA = Riparian zone protection for the Johnson Creek.
29	4112 - Maple, Beech, Cherry Association	High Density Pole	19.0	80	81-110	Select cut in 2007: TS# 123-04-01.
32	6129 - Mixed Coniferous Lowland Forest	Low Density Pole	26.5	89	1-50	Contains tag alder inclusions. Very wet in places due to water drainages.
33	6129 - Mixed Coniferous Lowland Forest	Medium Density Pole	24.9	89	1-50	Significant tag alder inclusions. Very wet in places-marginally productive.
34	4119 - Mixed Northern Hardwoods	High Density Pole	14.6	89	81-110	
35	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	10.1	89	81-110	
36	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	22.7	89	81-110	Contains some large canopy gaps due to a windthrow event in August, 1988.
37	6122 - Black Spruce	Medium Density Pole	5.9	89	1-50	
38	6117 - Lowland Deciduous, Mixed Coniferous	High Density Pole	14.0	89	51-80	SCA = Riparian zone protection in the Johnson Creek watershed.
39	6113 - Lowland Maple	Low Density Log	2.1	80	1-50	
40	4199 - Other Mixed Upland Deciduous	High Density Pole	5.7	80	81-110	



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
5	6229 - Mixed lowland shrub	1.1	No	Unspecified	Old beaver meadow.
9	6229 - Mixed lowland shrub	1.2	No	Unspecified	Old beaver meadow.
19	11 - Low Intensity Urban	5.0	No	Unspecified	County Road 550.
26	6233 - Wet Meadow	3.4	No	Unspecified	
30	6233 - Wet Meadow	2.6	No	Unspecified	
31	6223 - Inundated Shrub Swamp	10.5	No	Unspecified	



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
multiple - see	Unique Site - SCA	32202_SCA	224.7	RAU added SCA. SCA = Riparian zone protection for the Johnson Creek. SCA = Part of the historic Yellow Dog Deer Wintering Area.
3	Unique Site - SCA	32202003	20.4	SCA = MNFI designated acid rock glen
4	Unique Site - SCA	32202004	15.3	SCA = Riparian zone protection for the Yellow Dog River.
8	Unique Site - SCA	32202008	62.6	SCA = Riparian zone protection for and bottom lands of the Yellow Dog River.
14	Unique Site - SCA	32202014	36.9	SCA = Bottom lands of and riparian zone protection for the Johnson Creek.
20	Unique Site - SCA	32202020	29.9	SCA = Bottom lands of and riparian zone protection for the Johnson Creek.
22	Unique Site - SCA	32202022	4.3	SCA = Riparian zone protection for the Johnson Creek. Contains seeps and drains that feed the creek.
28	Unique Site - SCA	32202028	11.2	SCA = Riparian zone protection for the Johnson Creek. Contains drains that feed the creek.
38	Unique Site - SCA	32202038	14.0	SCA = Riparian zone protection for the Johnson Creek.
31	Unique Site - SCA	NF_32202031	10.5	SCA = Riparian zone protection for the Johnson Creek.



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.
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.