



**Crystal Falls Forest Management Unit
Compartment Review Presentation
Compartment #164 Entry Year: 2012
Compartment Acreage: 579 County: Iron**

Revision Date: July 19, 2010

Stand Examiner: Scott Sebero

Legal Description: T42N, R31W, Section 19 T42N, R32W, Section 24.

Identified Planning Goals ('Management Area' or 'RMU', if applicable):

Management Goals: Our management goals in this compartment are to develop age class distribution in aspen types, maintain health of conifer types and increase acreage where possible, and to develop the quality while maintaining diversity in hardwood types.

Soil and Topography: Land is nearly level to hilly with a mix of Karlin and Vilas soils that are excessively drained to well-drained, loamy and sandy soils on ground moraines, end moraines and outwash plains. Some areas contain rock outcrops up to 50 feet in height. Some narrow depressions contain Cathro soils that are poorly drained black muck.

Ownership Patterns, Development, and Land Use in and Around the Compartment: Ownership patterns in and around this compartment consist mostly of State lands with some power company lands and a few private parcels. These lands are used mainly for hunting and managed for forest products.

Unique, Natural Features: Paint River is just to the South of compartment.

Archeological, Historical, and Cultural Features: None

Special Management Designations or Considerations: None

Watershed and Fisheries Considerations:

Wildlife Habitat Considerations: Ownership patterns in and around this compartment consist mostly of State lands with some power company lands and a few private parcels. These lands are used mainly for hunting and managed for forest products.

Mineral Resource and Development Concerns and/or Restrictions: Surface sediments consist of glacial outwash sand and gravel and postglacial alluvium. The glacial drift thickness varies between 10 and 100 feet. The Precambrian Michigamee and Hemlock Formations subcrop below the glacial drift. There is not a current economic use for the Michigamee. The abandoned Crystal Falls iron mines are located six miles to the west. This compartment was previously leased for metallic exploration. The nearest gravel pit is three miles to the northwest, but potential appears to be limited. There is no economic oil and gas production in the UP.

Vehicle Access: Vehicle access is from Peavy Pond Road, Little Bull Road and Diversion Cannal Road.

Survey Needs: A survey has just been completed and should be all that is needed for proposed treatments this entry period.

Recreational Facilities and Opportunities: Wisconsin Electric has public boat launches on Peavy Pond and the Paint River. This area is used heavily by both deer and grouse hunters. Peavy Pond and the Paint River are popular for both fishing and waterfall hunting.

Fire Protection: None.

Additional Compartment Information: None.

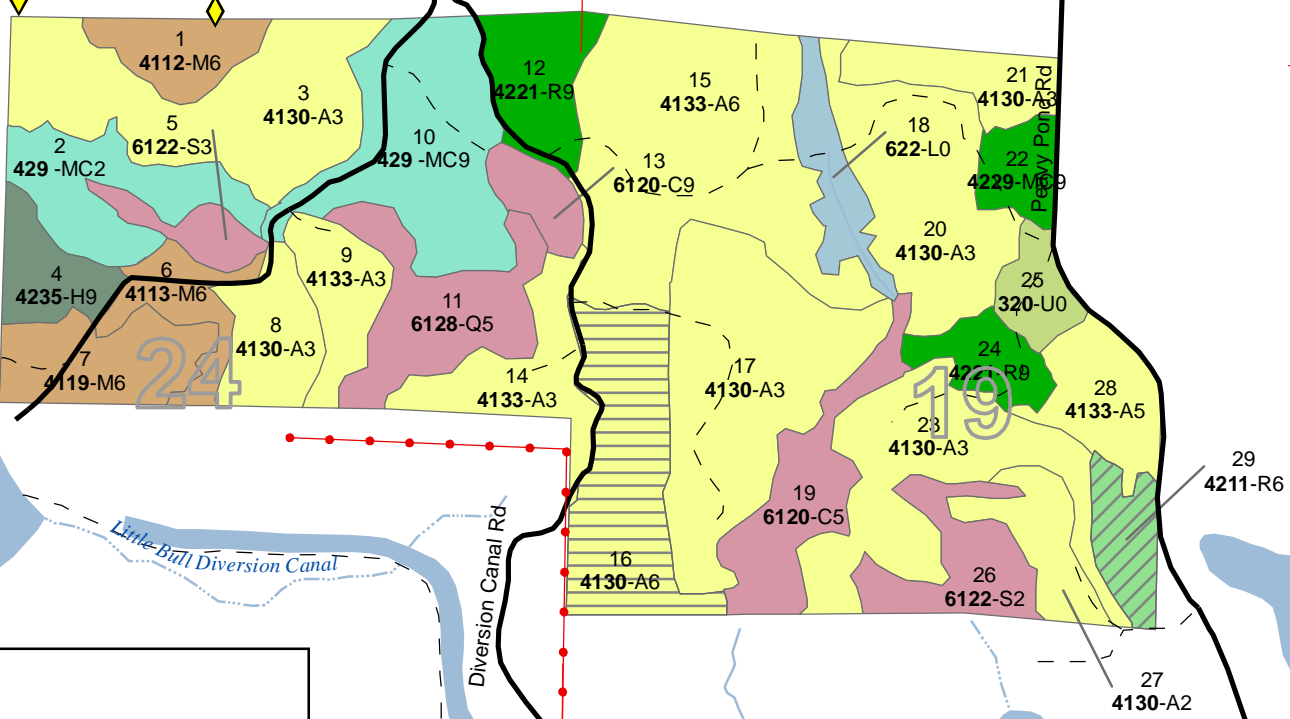
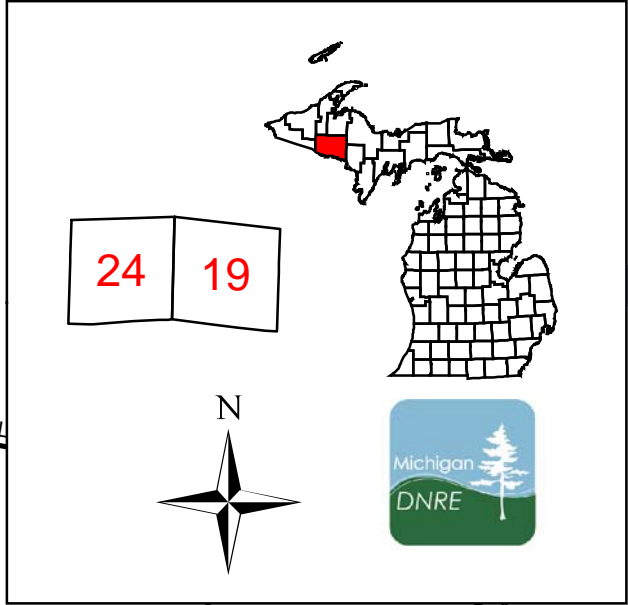
- **The following reports from the Inventory are attached:**
 - ◆ **Total Acres by Cover Type and Age Class**
 - ◆ **Proposed Treatment Summary**
 - ◆ **Proposed Treatments – No Limiting Factors**
 - ◆ **Proposed Treatments – With Limiting Factors**
 - ◆ **Stand Details (Forested and Nonforested)**
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

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

Compartment 164
 T42N, R31W, Sec. 19
 T42N, R32W, Sec. 24
 County: Iron
 Unit: Crystal Falls
 YOE: 2012
 Acres: 579 GIS Calculated
 Stand Examiner: Scott Sebero
 Map Revised: 7/28/2010
 Map Phase: Pre-Review



Legend

- Miris Corners
- ◆ RLS Corners
- - - Buried Cable
- Pipe
- Power
- Paved Roads
- - - Poor Dirt Roads
- Lakes and Rivers
- - - Intermittent Stream/Drain
- Stream

Treatments

- ▨ Clearcut (w/Reserves, Patch/Strip)
- ▧ Thinning (Crown, Low, Systematic)

Forest Stands

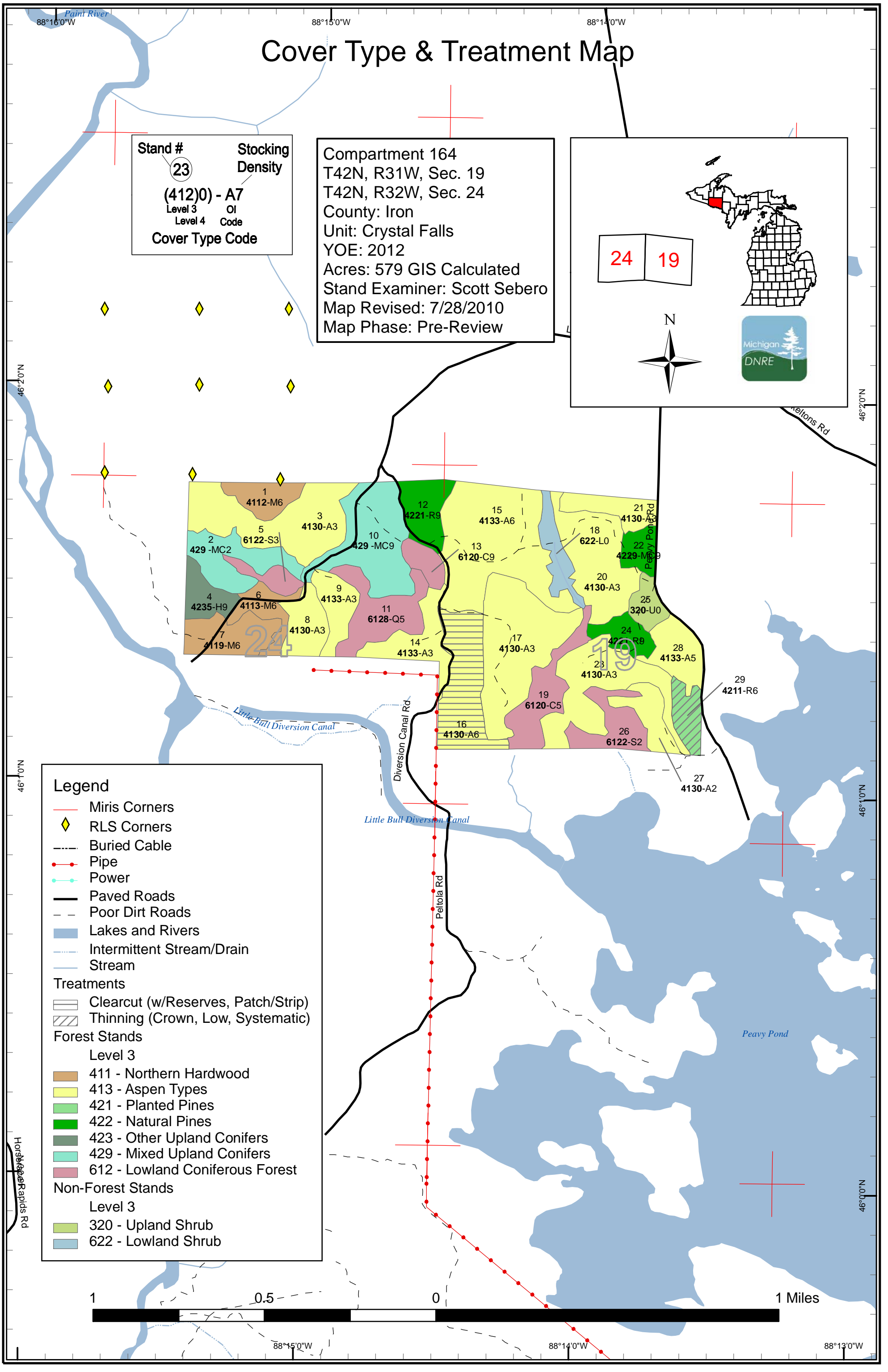
Level 3

- 411 - Northern Hardwood
- 413 - Aspen Types
- 421 - Planted Pines
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers
- 612 - Lowland Coniferous Forest

Non-Forest Stands

Level 3

- 320 - Upland Shrub
- 622 - Lowland Shrub

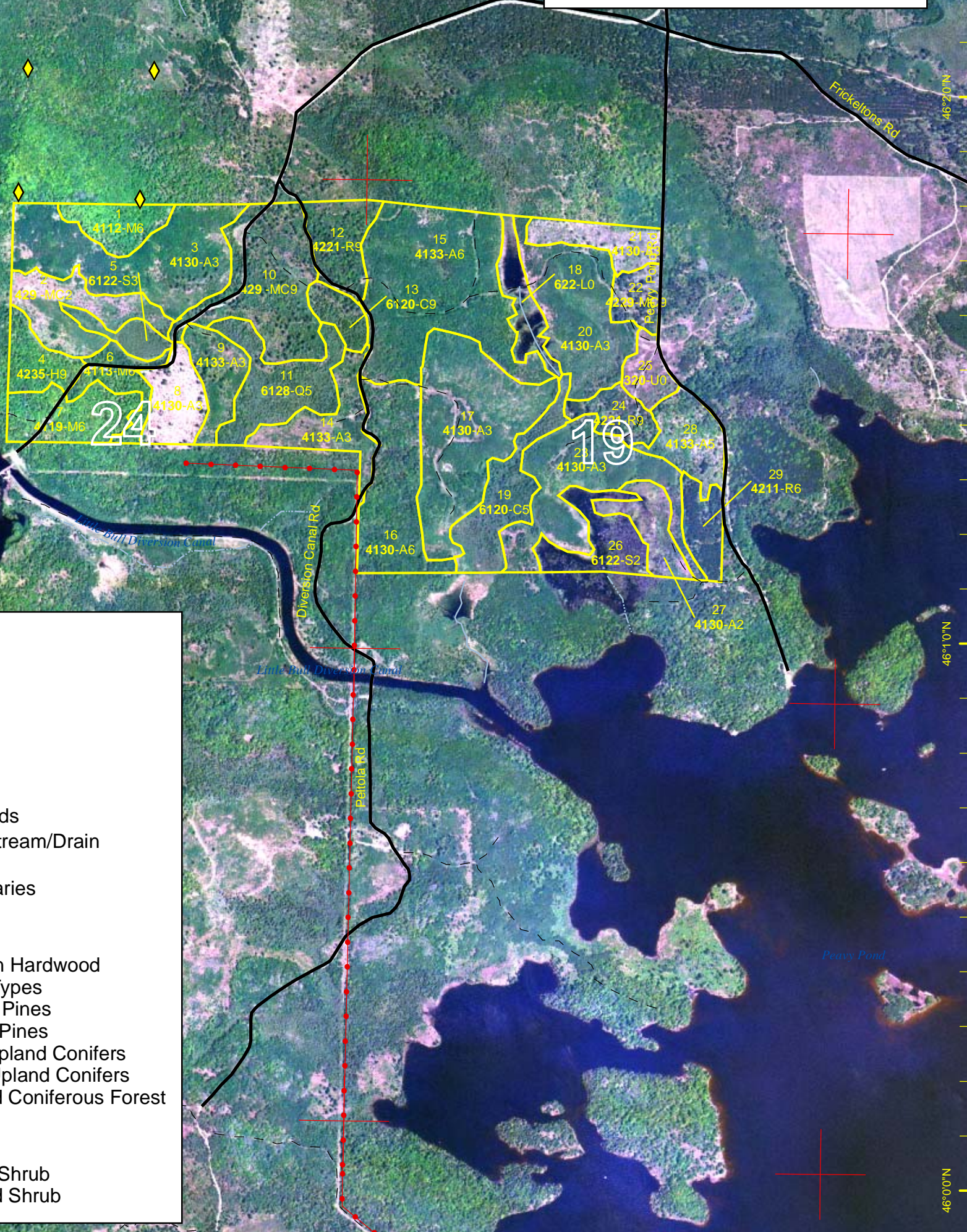


Stand Boundary Map

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

Compartment 164
 T42N, R31W, Sec. 19
 T42N, R32W, Sec. 24
 County: Iron
 Unit: Crystal Falls
 YOE: 2012
 Acres: 579 GIS Calculated
 Stand Examiner: Scott Sebero
 Map Revised: 7/28/2010
 Map Phase: Pre-Review

Michigan
 DNRE



Legend

- Miris Corners
- ◆ RLS Corners
- Buried Cable
- Pipe
- Power
- Paved Roads
- - - Poor Dirt Roads
- Intermittent Stream/Drain
- Stream
- Stand Boundaries

Forest Stands

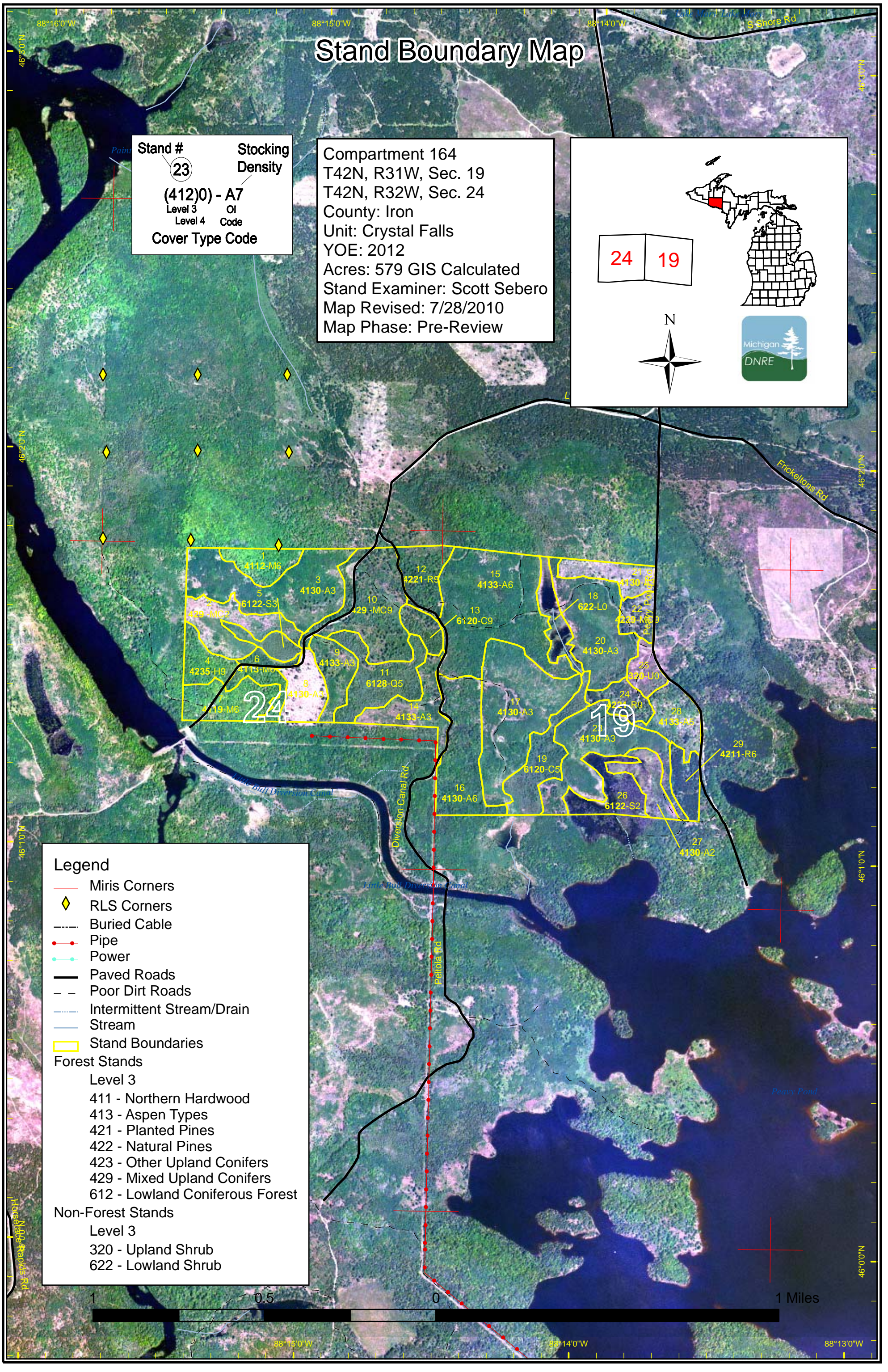
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- 411 - Northern Hardwood
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Non-Forest Stands

Level 3

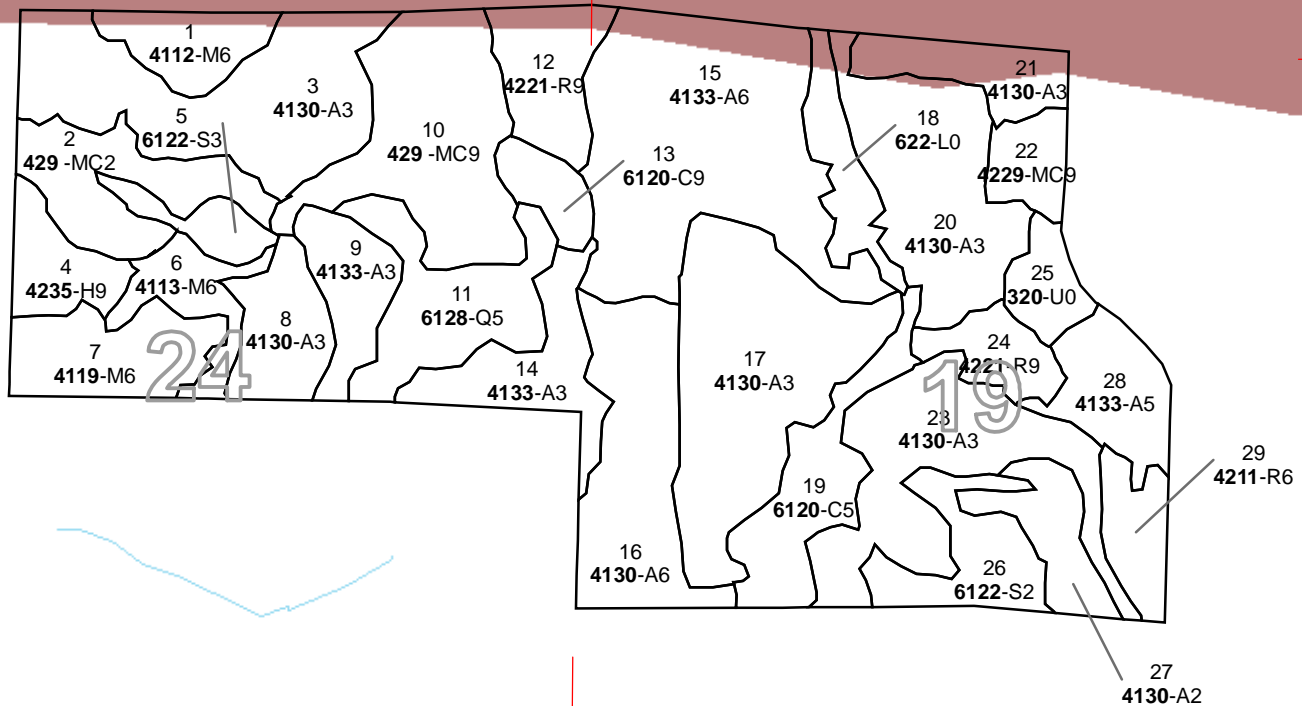
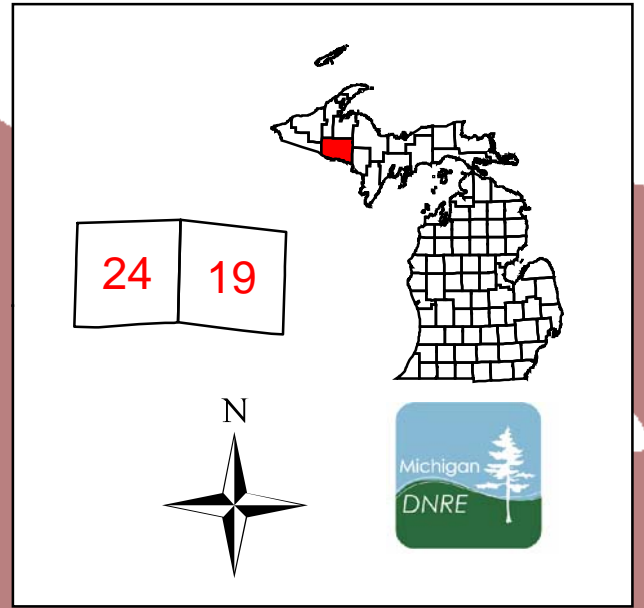
- 320 - Upland Shrub
- 622 - Lowland Shrub



Dedicated & Proposed Special Conservation Area Map

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

Compartment 164
 T42N, R31W, Sec. 19
 T42N, R32W, Sec. 24
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 Map Revised: 7/28/2010
 Map Phase: Pre-Review



- Legend**
- Miris Corners
 - Stand Boundaries
 - Proposed Special Conservation Areas**
 - ▨ SCA - Special Conservation Area
 - ▩ SCA Removal
 - Dedicated Special Conservation Areas**
 - Deer Wintering Areas
 - Cold Water Streams
 - Forest Stands**
 - Level 3
 - 411 - Northern Hardwood
 - 413 - Aspen Types
 - 421 - Planted Pines
 - 422 - Natural Pines
 - 423 - Other Upland Conifers
 - 429 - Mixed Upland Conifers
 - 612 - Lowland Coniferous Forest
 - Non-Forest Stands**
 - Level 3
 - 320 - Upland Shrub
 - 622 - Lowland Shrub



88°15'0"W 88°14'0"W 88°13'0"W

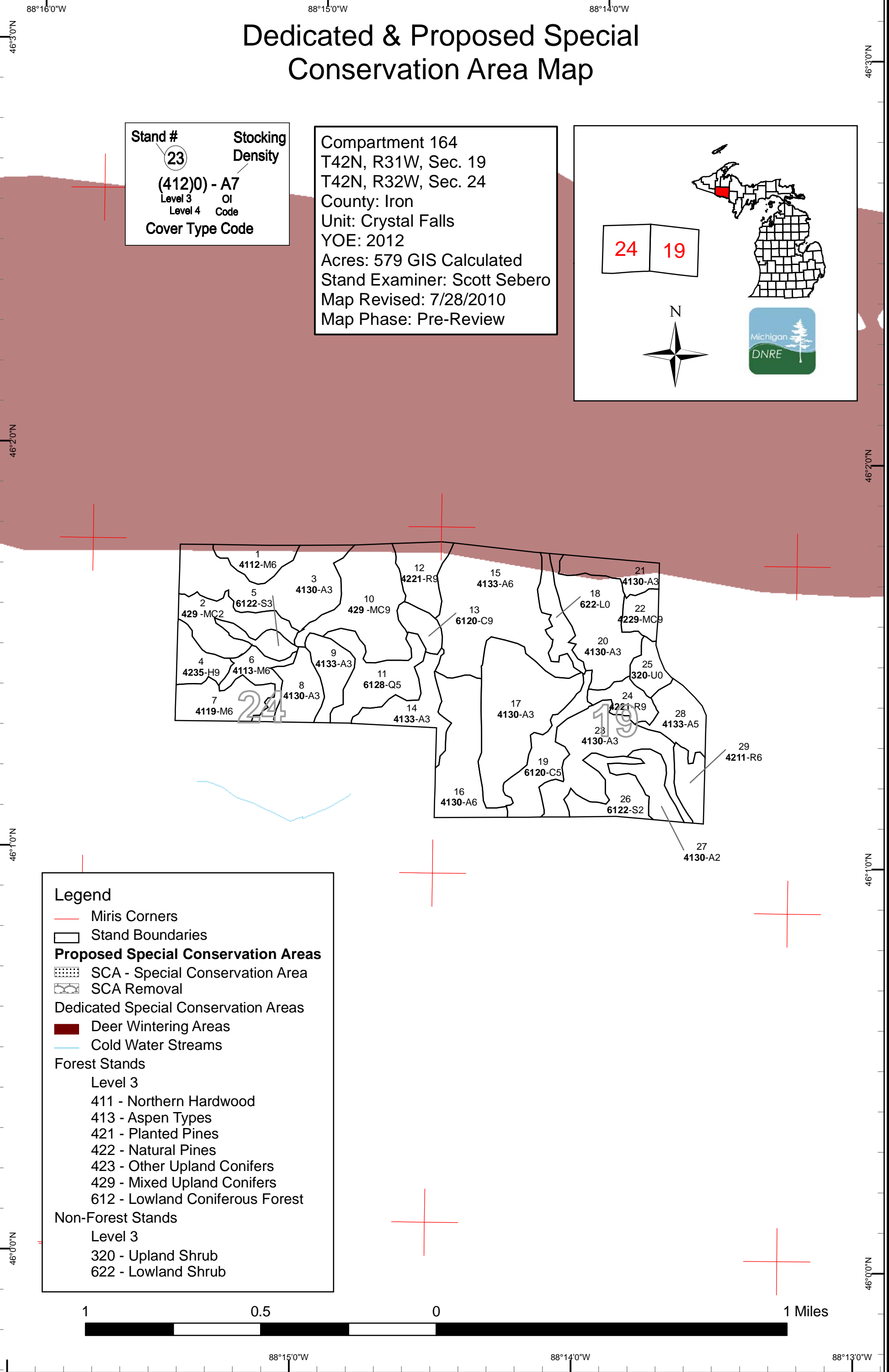


Table 1 – Total Acres by Cover Type and Age Class



	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	26	41	178	63	0	0	0	0	32	0	0	0	0	0	339
Cedar	0	0	0	0	0	0	0	0	0	0	27	0	0	0	0	27
Hemlock	0	0	0	0	0	0	0	0	0	0	10	0	0	0	0	10
Lowland Conifers	0	0	0	0	0	0	0	0	0	23	0	0	0	0	0	23
Lowland Shrub	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	0	0	22	0	0	0	0	22
Natural Mixed Pines	0	0	0	0	0	0	0	0	0	0	8	0	0	0	0	8
Northern Hardwood	0	0	0	0	0	0	0	0	0	0	39	0	0	0	0	39
Red Pine	0	0	0	0	0	9	0	0	0	0	24	0	0	0	0	33
Upland Conifers	0	0	0	21	0	0	0	0	0	0	0	0	0	0	38	58
Upland Shrub	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Total	18	26	41	199	63	9	0	0	0	55	130	0	0	0	38	579



Table 2 – Proposed Treatment Summaries

Crystal Falls Mgt. Unit
Year of Entry 2012

Compartment 164
Total Compartment Acres: 578.6

Acres by Treatment Type

Commercial Harvest - 42	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

	<i>Clearcut</i>	<i>Selection</i>	<i>Seed Tree</i>	<i>Shelterwood</i>	<i>Thinning</i>	<i>Other - Specify</i>	<i>Total Acres</i>
Aspen	32	0	0	0	0	0	32
Red Pine	0	0	0	0	9	0	9
Total	32	0	0	0	9	0	42

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



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Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
16 12164016-Cut	32.1	4130 - Aspen	High Density Pole	85	Harvest	Clearcut with Reserves	Aspen	Cmpt. Review Proposal

Prescription: Cut all aspen and mixed hardwood 2" DBH or greater. Cut all spruce and balsam with a stump diameter of six inches or more. Leave all red pine, white pine, cedar and oak. Retention will be along low area in the SW portion of this stand.

Other Comments: Low area in SW portion of stand will be painted out of harvest area.

Next Steps: Regen survey per work constructions.

29 12164029-Cut	9.5	42110 - Planted Red Pine	High Density Pole	47	Harvest	Systematic Thinning	Planted Red Pine	Cmpt. Review Proposal
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Prescription: Cut every third row of red pine. Cut all merchantable aspen.

Other Comments:

Next Steps:

**Total Treatment
Acreage Proposed: 41.6**

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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
Comment:

Next
Steps:

Limiting Factor and No
Treatment Reason

Total Treatment
Acreage Proposed: 0

Stand	Crystal Falls Mgt. Unit		5 – Forested Stands			Compartment: 164
	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Year of Entry: 2012
						General Comments:
1	4112 - Maple, Beech, Cherry Association	High Density Pole	10.9	90	81-110	
2	429 - Mixed Upland Conifers	Medium Density	20.8	22		
3	4130 - Aspen	High Density Sapling	43.4	22		
4	42350 - Upland Hemlock	High Density Log	10.5	90	111-140	
5	6122 - Black Spruce	High Density Sapling	6.4	90		
6	4113 - R.Maple, Conifer	High Density Pole	10.6	90	81-110	
7	4119 - Mixed Northern Hardwoods	High Density Pole	18.0	90	81-110	
8	4130 - Aspen	High Density Sapling	13.7	6		
9	4133 - Aspen, Mixed Pine	High Density Sapling	12.4	16		
10	429 - Mixed Upland Conifers	High Density Log	37.7	Uneven Age	51-80	
11	6128 - Lowland Coniferous, Mixed Deciduous	Medium Density Pole	23.2	85	51-80	
12	42211 - Natural Red Pine, Mixed Deciduous	High Density Log	14.9	90	51-80	
13	6120 - Lowland Cedar	High Density Log	6.8	90	111-140	
14	4133 - Aspen, Mixed Pine	High Density Sapling	16.9	16		
15	4133 - Aspen, Mixed Pine	High Density Pole	62.7	36	51-80	
16	4130 - Aspen	High Density Pole	32.1	85	81-110	
17	4130 - Aspen	High Density Sapling	49.0	22		
19	6120 - Lowland Cedar	Medium Density Pole	19.9	90	51-80	



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Crystal Falls Mgt. Unit

5 – Forested Stands
Inventory Method: IFMAP

Compartment: 164
Year of Entry: 2012



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
20	4130 - Aspen	High Density Sapling	34.0	22		
21	4130 - Aspen	High Density Sapling	11.9	6		
22	42290 - Natural Mixed Pine	High Density Log	7.7	90	81-110	
23	4130 - Aspen	High Density Sapling	36.3	22		
24	42210 - Natural Red Pine	High Density Log	9.0	90	51-80	
26	6122 - Black Spruce	Medium Density	15.4	90		
27	4130 - Aspen	Medium Density	11.5	14		
28	4133 - Aspen, Mixed Pine	Medium Density Pole	15.2	22	51-80	
29	42110 - Planted Red Pine	High Density Pole	9.5	47	111-140	



Stand	Cover Type	Acres	Gen Cmts:
18	6229 - Mixed lowland shrub	10.6	
25	3205 - Mixed Upland Shrub	7.6	



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.

Inventory Method: IFMAP

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.
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.