



**TRAVERSE CITY FOREST MANAGEMENT UNIT  
COMPARTMENT REVIEW PRESENTATION**

**COMPARTMENT # 143 ENTRY YEAR: 2010**

**Compartment Acreage: 2322      County: Kalkaska**

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**Stand Examiner:** Donna Hagan

**Legal Description:** T25N, R5W, Secs. 19,20,21,29,30,31

**Management Goals:** Wildlife intensive. Southeast part of section 21 is sharptail area. Keep and expand the aspen type. Produce medium to high site index oak for timber. Maintain age class diversity.

**Soil and Topography:** Soils: Roselawn and Rubicon Sands, Houghton Muck and Greenwood Peat.  
Topography: Flat to rolling hills.

**Ownership Patterns, Development, and Land Use in and Around the Compartment:**

Majority of surrounding ownership is state land, except within the compartment itself. There are a few full time private residences in the area but mainly small hunting camps dominate the area. Land use in and around the compartment would be hunting, fishing and snowmobiling.

**Unique, Natural Features (include only non-site specific and non-sensitive information):**

Natural Features Inventory lists 1 threatened and 1 special concern plant and/or animal in this compartment.

**Archeological, Historical, and Cultural Features (include only non-site specific and non-sensitive information):** There are HAL concerns in section 21.

**Special Management Designations or Considerations:** Sections north of Fletcher Road (19,20,21) are within military lease area. National Guard operations restricted to ground troops and support vehicles.

**Watershed and Fisheries Considerations:** There is no water in this compartment

**Wildlife Habitat Considerations:**

**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 400 and 600 feet. There is over 180 feet of local relief in the compartment. Beneath the Glacial Drift is the Mississippian Michigan Formation. The Michigan Formation is used for gypsum. The nearest gravel pit is one mile to the southwest in Section 36 T25N R6W. Gravel potential in the compartment is considered good, especially the southwest corner. Fletcher Field is located in Sections 19 and 30. The field has produced over 600,000 mcf gas from the Prairie du Chien. The State land in the area of the field is currently leased for oil and gas development. Portions of Sections 17 through 20 have been nominated for the next State lease auction.

**Vehicle Access:** Good vehicle access. Continual berming is needed to keep ORVs out of low (stand 31) and sandy (stands 7 & 8) areas.

**Survey Needs:** None.

**Recreational Facilities and Opportunities:** Four miles of the Cranberry Lake Snowmobile Trail run through the northern sections of the compartment.

**Fire Protection:** DNR initial attack responsibilities are from the Kalkaska Field Office. Sections 19, 20, and 21 are within Zone 5 Dispatch. On High and above days, additional DNR equipment from Grayling, Houghton Lake, and Manton are automatically dispatched to the scene, with additional equipment shifting toward the fire. VFD initial attack is from the Garfield Fire Department. Urban innerface concerns are a few private residences located within the compartment. Access is good.

**Additional Compartment Information:**

**\*\*\*\* Cover type details, proposed treatments and stands designated as FDF are listed in the attached reports:**

**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 on the attached compartment maps:**

**Base feature information, stand numbers, cover types**  
**Proposed treatments**  
**Proposed road access system**  
**Suggested potential old growth**

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Michigan Department of Natural Resources - Operations Inventory System  
Individual Compartment Report

PERE MARQUETTE STATE FOREST

TRAVERSE CITY FOREST MGT UNIT

KALKASKA COUNTY

COMPARTMENT: 143

Table 3

(acres shown in boxes)

STAND AGE CLASS

COVER TYPE	Not Coded	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150-159	All Aged	Total
Aspen		238	316	310	156	5	84	19		3									1131
Bog or Marsh	35																		35
Grass	50																		50
Lowlnd Brush	5																		5
Oak								29	34	190									253
Red Pine								13	334	3	4								354
Sand Dune	6																		6
Upland Brush	229																		229
Upland Hdwds		88									20							149	257
White Pine								2											2
<b>Total</b>	<b>325</b>	<b>326</b>	<b>316</b>	<b>310</b>	<b>156</b>	<b>5</b>	<b>84</b>	<b>63</b>	<b>368</b>	<b>196</b>	<b>24</b>							<b>149</b>	<b>2322</b>

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Michigan Department of Natural Resources - Operations Inventory System  
Individual Compartment Report

PERE MARQUETTE STATE FOREST

TRAVERSE CITY FOREST MGT UNIT

KALKASKA COUNTY

COMPARTMENT: 143

Table 3A

(acres shown in boxes)

MANAGEMENT OBJECTIVE TYPE

COVER TYPE	A	S	V	C	G	H	J	I	L	P	N	Q	X	O	B	R	K	Y	F	E	T	D	U	M	Z	W	Total	
A Aspen	924													207													1131	
V Bog or Marsh			35																								35	
G Grass					50																						50	
L Lowlnd Brush									5																		5	
O Oak														253													253	
R Red Pine																354											354	
Y Sand Dune																		6									6	
U Upland Brush																								229			229	
M Upland Hdwds														20										237			257	
W White Pine																										2	2	
Total	924		35		50				5					480		354		6						229	237		2	2322

PERE MARQUETTE STATE FOREST

TRAVERSE CITY FOREST MGT UNIT

KALKASKA COUNTY

COMPARTMENT: **143**

**Table 10 - COMPARTMENT VOLUME SUMMARY - ALL STANDS**

COMPARTMENT SUMMARY			
TOTAL VOLUME		CUT VOLUME	
Hardwood	12271 Cds	Hardwood	5196 Cds
Hardwood	2294 Mbf	Hardwood	625 Mbf
Softwood	2685 Cds	Softwood	48 Cds
Softwood	3636 Mbf	Softwood	16 Mbf
Sum TotVol	26816 Cds	Sum CutVol	6526 Cds
<b>Total Cmpt Acres</b>		Acres Proposed For Cut.....	306
2322			

**TRAVERSE CITY FOREST MGT UNIT**

**Proposed Treatments  
With NO Limiting Factors**

**Compartment: 143 Entry Year: 2010**

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	fdf Status	
<b>15</b>	<b>A6</b>	19	62	60	aspen (upland)	mature	final harvest	1	natural regeneration		
comnts Fmd : 2008 - Hagan - CC with retention. Leave oak. Oak and maple would be an acceptable MO also. 2000 - Hagan - Nice oak , hodgepodge stand. Fairly thick with A & M regeneration. Some larger aspen in this stand. 1989 - O9M3-LARGE OAK,THICK BRUSH UNDERSTORY.THIN (MAYBE) TO ENCOURAGE OAK REGEN. PRESENTLY GOOD SHARPTAIL COVER+FOOD.											
Wld : all ages RM, some WP											
<b>22</b>	<b>R9</b>	6	68	62	red pine	two aged	selection	2			
comnts Fmd : 2008 - Hagan - Take out all aspen and red maple, thin out red pine. R5A5W4J4M2W1.MIXED PLANTING-MOSTLY RPINE LEFT											
Wld : WB, WP, O present.											
<b>37</b>	<b>O6</b>	24	86	43	oak	two aged	shelterwood-seed	1			
comnts Fmd : 2008 - Hagan - Take out any aspen and mark some oak to take out. 1989 - SOME QUALITY OAK. DON'T CLEARCUT FOR STUMP SPROUTS.											
<b>44</b>	<b>M9</b>	14		60	northern hardwood	unevenaged	selection	1			
comnts Fmd :											
<b>48</b>	<b>M9</b>	3		60	northern hardwood	unevenaged	selection	2			
comnts Fmd :											
<b>61</b>	<b>A6</b>	32	49	70	aspen (upland)	mature	final harvest	1	natural regeneration		
comnts Fmd : 2008 - Hagan - Leave any oak. Clearcut with retention. White pine and red maple could also be a MO also. 2000 - Hagan - Little ridges of poorer quality hardwoods (red maple, beech). Some nice oak in the northeast part of stand. 1989 - CLONES OF ASPEN, CLUMP RED MAPLE, WOLFY OAK, GOOD WILDLIFE AREA AND SOME GOOD OAK-LEAVE SOME OAK.											
Wld : Stands 61 and 62 similar, but much more bigtooth in 61. SM, AB saplings, big RO, WB, Bass, some WP seedlings and saplings, occassional old WP. Maintain spp diversity. Blackberry, bracken, old WP stumps.											
<b>66</b>	<b>A6</b>	5	48	71	aspen (upland)	mature	final harvest	1	natural regeneration		
comnts Fmd : 2008 - Hagan - Clearcut with retention.											
Wld : Clones of aspen poles.											
<b>73</b>	<b>A5</b>	3	45	60	aspen (upland)	mature	final harvest	1	natural regeneration		
comnts Fmd : 2008 - Hagan - Clearcut with retention. Red maple could also be a MO.											
<b>82</b>	<b>O9</b>	9	78	56	oak	two aged	shelterwood-seed	1			
Wld : Like 69.											
<b>85</b>	<b>O9</b>	108	78	56	oak	two aged	shelterwood-seed	1			
comnts Fmd : 2008 - Hagan - Take out aspen & maple, mark or diameter limit oak to take out.											
<b>101</b>	<b>O9</b>	16	72	64	oak	two aged	shelterwood-seed	1			
Wld :											
<b>Total Acres.....</b>		<b>239</b>									

**TRAVERSE CITY FOREST MGT UNIT**

**Proposed Treatments  
With Limiting Factors**

**Compartment: 143**    **Entry Year: 2010**

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDL Status	
<b>16</b>	<b>M6</b>	20	88	60	oak	two aged	selection	1			
TREATMENT LIMITING FACTORS: Delayed treatment for age/size class diversity											
comnts Fmd : 2008 - Hagan - Remove aspen, red maple and jack pine. 2000 - Hagan - The 1989 treatment was never done. Take out everything but oak, red and white pine. 1989 - O9M1/M2 REMOVE ASPEN & HARDWOODS TO ENCOURAGE REGEN. OF OAK.											
<b>75</b>	<b>A6</b>	47	57	60	aspen (upland)	mature	final harvest	1	natural regeneration		
TREATMENT LIMITING FACTORS: Delayed treatment for age/size class diversity											
comnts Fmd : 2008 - Hagan - Clearcut with retention. Red maple or oak could also be a MO. Leave any oak. 2000 - Hagan - Mix of larger and smaller (4-5") aspen. 1989 - A4A3 AREAS OF M5.											
Wld : Well stocked aspen poles, some sawlog size. A few RM, O, WB. WHZ, BC, WP understory. Fair number of snags and CWD at present.											
<b>Total Acres.....</b>		<b>67</b>									



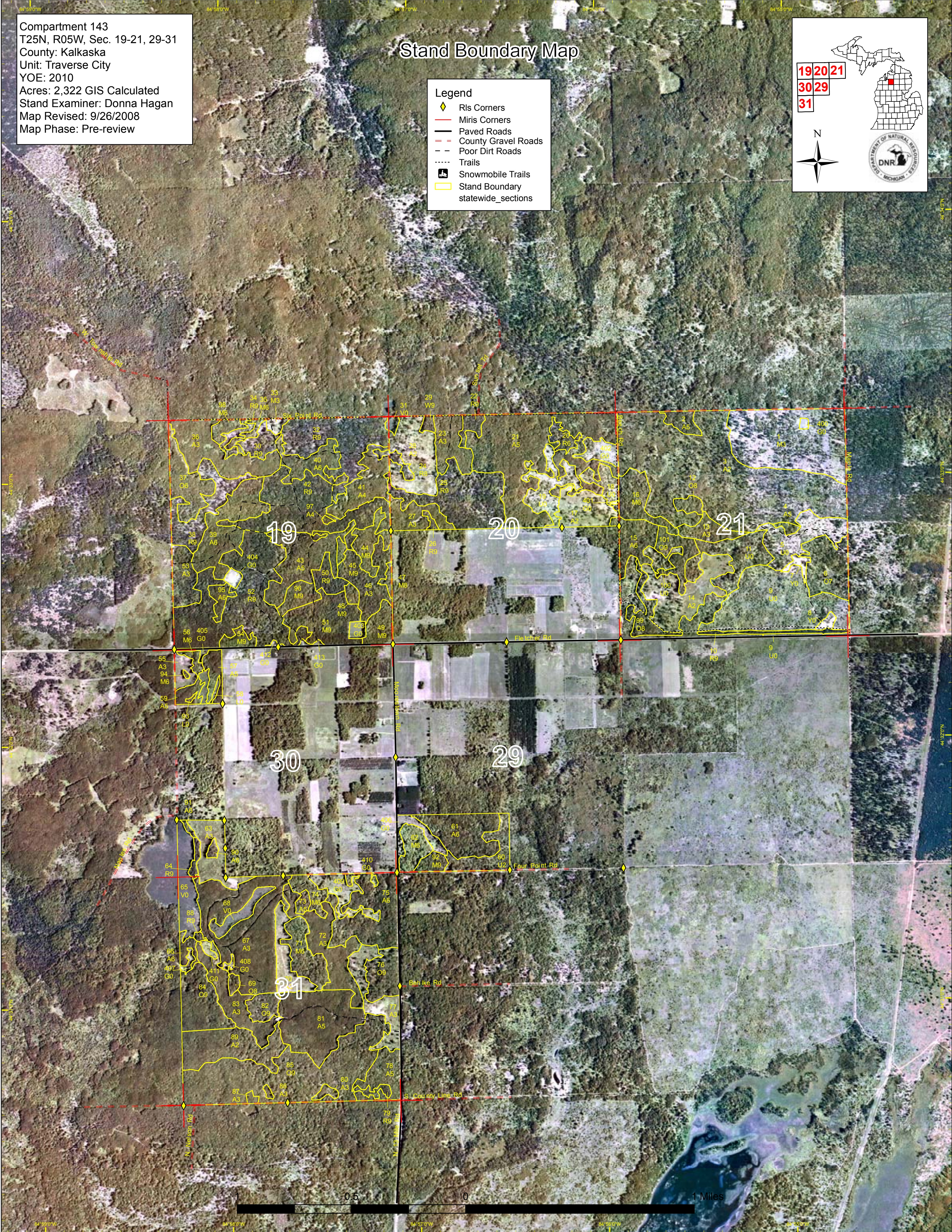
Compartment 143  
T25N, R05W, Sec. 19-21, 29-31  
County: Kalkaska  
Unit: Traverse City  
YOE: 2010  
Acres: 2,322 GIS Calculated  
Stand Examiner: Donna Hagan  
Map Revised: 9/26/2008  
Map Phase: Pre-review

# Stand Boundary Map

- Legend**
- ◆ Ris Corners
  - Miris Corners
  - Paved Roads
  - - County Gravel Roads
  - - Poor Dirt Roads
  - ⋯ Trails
  - ⊞ Snowmobile Trails
  - Stand Boundary statewide\_sections

19 20 21  
30 29  
31

DNR  
DEPARTMENT OF NATURAL RESOURCES  
MICHIGAN



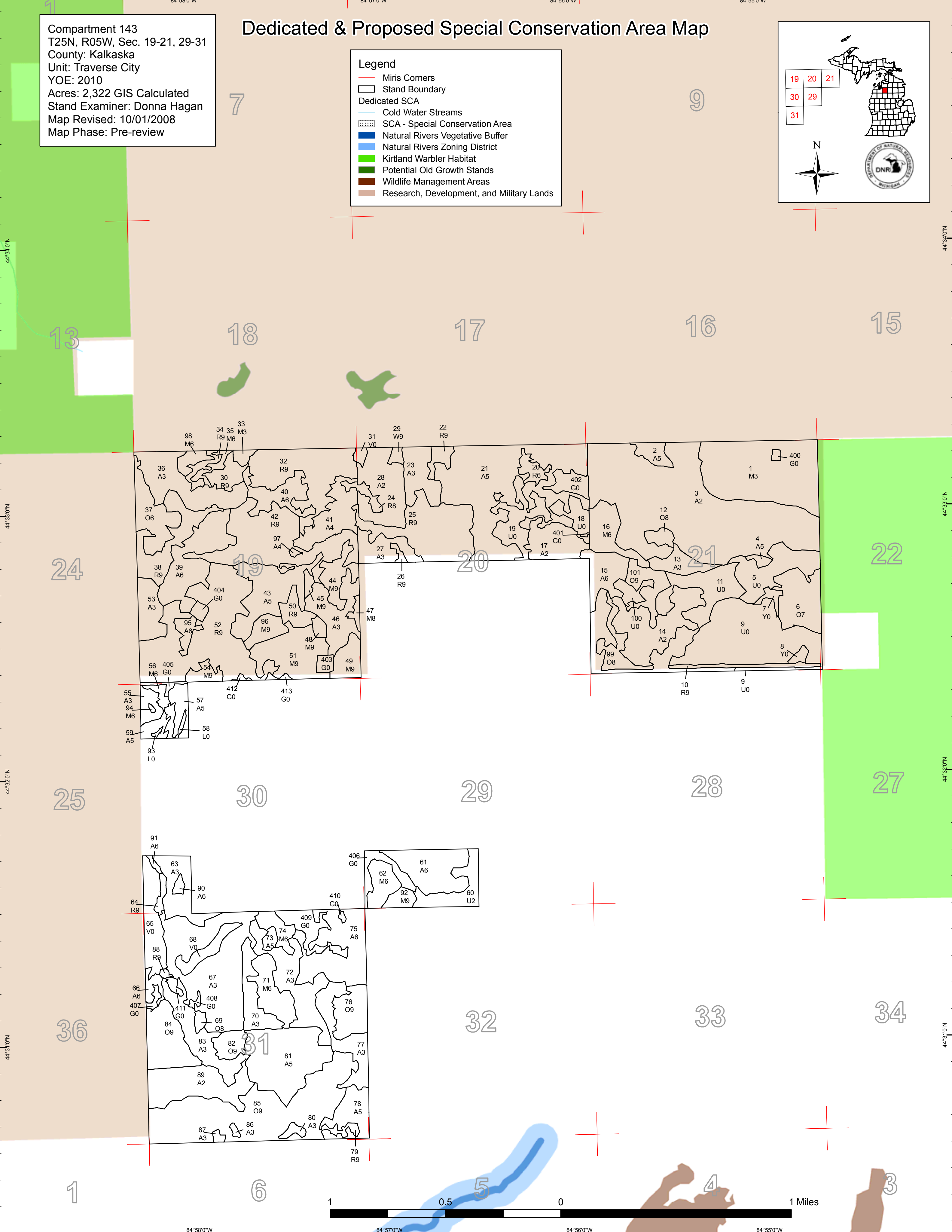
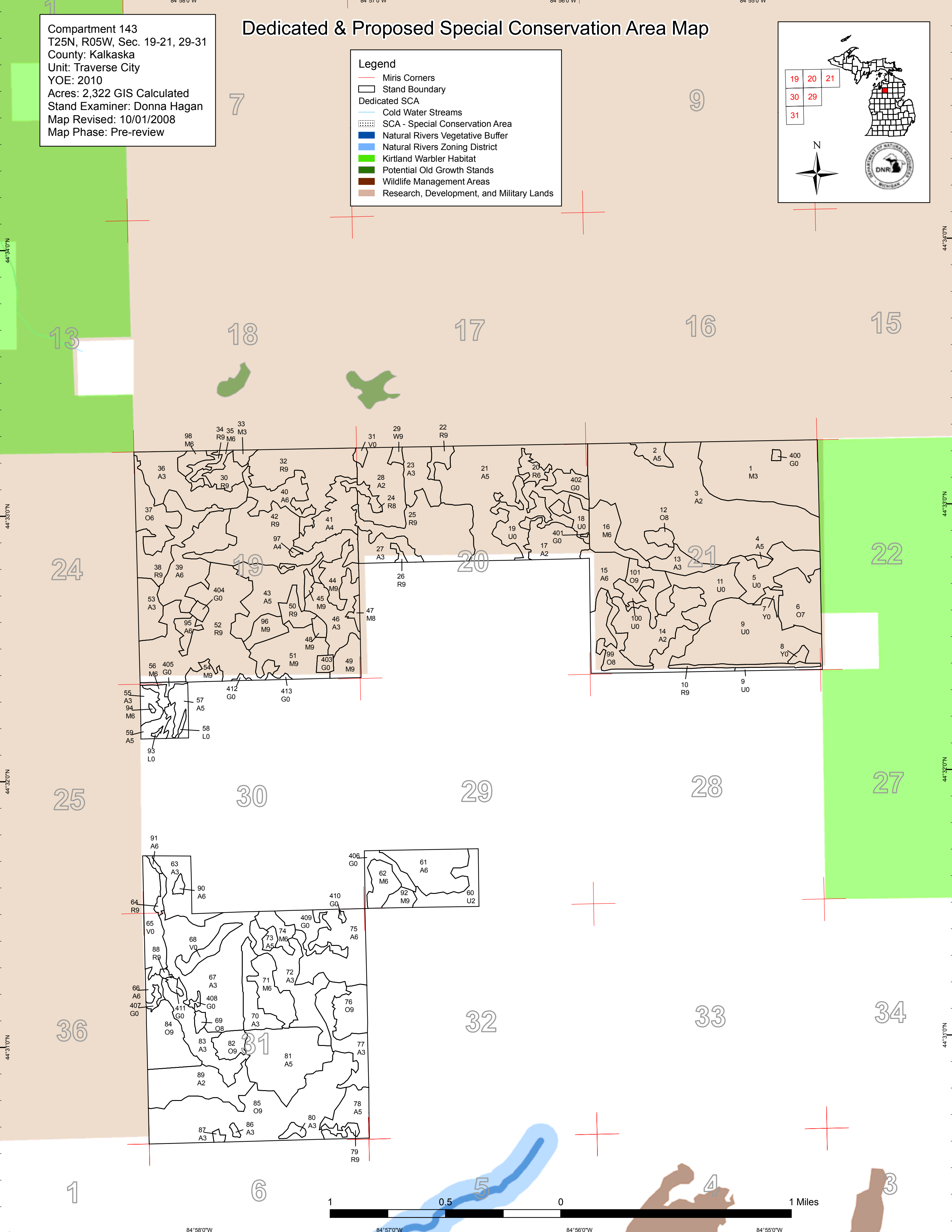
# Dedicated & Proposed Special Conservation Area Map

Compartment 143  
 T25N, R05W, Sec. 19-21, 29-31  
 County: Kalkaska  
 Unit: Traverse City  
 YOE: 2010  
 Acres: 2,322 GIS Calculated  
 Stand Examiner: Donna Hagan  
 Map Revised: 10/01/2008  
 Map Phase: Pre-review

**Legend**

- Miris Corners
- Stand Boundary
- Dedicated SCA**
- Cold Water Streams
- SCA - Special Conservation Area
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- Kirtland Warbler Habitat
- Potential Old Growth Stands
- Wildlife Management Areas
- Research, Development, and Military Lands

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## 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
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.
SCA	Archaeological Site	An aquatic or terrestrial area of the State that contains physical remains of human occupation. These are sites of cultural and historical significance that may occur upon terrestrial areas and Great Lakes bottomlands. They include thousands of Native American settlements and burial sites, as well as French and British outposts, nineteenth century logging camps, mines and homesteads. Beneath the waters of the Great Lakes, there are shipwrecks and other remains documenting the maritime trade. Such sites may be identified by Natural heritage data from the State Historic Preservation Office. Proposed treatments in this compartment will be implemented in such a manner as to maintain the integrity of these sites. Due to the sensitive nature of this information, no further detail about location is available.
SCA	Potential Old Growth Areas	This category contains stands were identified for a broad range of reasons and were coded in the OI database as stand condition 8 as potential old growth (POG). Approximately 310,000 acres have been identified through the Operations Inventory (OI)/Compartment Review process. For stands in Year of Entry 2008 and forward, potential old growth is managed for the identified objective until it is: 1) vetted through the Biodiversity Conservation Planning Process (BCPP) and given a specific designation and objective (as an ERA, HCVA, or other type of SCA) and is released from the potential old growth designation; or 2) it is released from the potential old growth designation via the Compartment Review process.
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.