ATLANTA FOREST MANAGEMENT UNIT
COMPARTMENT REVIEW PRESENTATION

COMPARTMENT # 165 ENTRY YEAR: 2012

Compartment Acreage: 1264 County: Cheboygan

Revision Date: October 26, 2010

Stand Examiner: Cody Stevens

Legal Description: T37N R01W Sec 1 & 2.

RMU (if applicable): Hammond Bay Lake Plain

Management Goals:
The main goal in this compartment is to conduct multiple resource management for the good of the citizens of the State of Michigan.

Soil and Topography:
The topography of the compartment is mainly level ground. The dominate cover types are aspen and pine with scattered hardwoods. There is a small portion of low ground in the NW corner of the compartment along Elliot Creek.

Ownership Patterns, Development, and Land Use in and Around the Compartment:
The compartment has some private parcels scattered throughout on the boundary and one 40 acre parcel inside the boundary. The compartment has some recreational use by ORVs & snowmobiles.

Unique, Natural Features:
Some species are present in and around the compartment.

Archeological, Historical, and Cultural Features.
None known at this time.

Special Management Designations or Considerations:
None at this time.

Watershed and Fisheries Considerations:
Elliot Creek is a small brook trout stream that also receives a migratory run of salmonids.

Wildlife Habitat Considerations:
This compartment is unique in that is contains a portion of a larger wooded dune and swale complex. The majority of the compartment is upland aspen, maple, and pine with a matrix of lowland brush and swamps in the northwest corner. The proximity of this compartment to the Lake Huron coast and the availability of cover for a wide variety of species make it a likely stopover area for migratory birds during spring and fall. Portions of the compartment are used as deer yarding areas in the winter.

Mineral Resource and Development Concerns and/or Restrictions:
Surface sediments consist of Lacustrine (lake) sand and gravel. The glacial drift thickness varies between 400 and 600 feet. Beneath the glacial drift is the Devonian Detroit River Formation, used for dolomite/stone. The nearest gravel pit is located within one mile to the northeast in Section 36 and there is good gravel potential. This area has had no drilling for oil and gas. Oil and gas producing Silurian Niagaran Reefs are located 25 miles to the southeast. None of the State land is leased for oil and gas development.

Vehicle Access:
This compartment is accessed from two county roads: Alpena State Rd and Gilpin Rd. There are several two tracks for traversing the area.

Survey Needs:
None needed at this time.

Recreational Facilities and Opportunities:
There are many opportunities for hunting, fishing and wildlife viewing in the area. A snowmobile trail runs through the compartment, as does the Black Lake ORV Trail.

Fire Protection:
Fire response to the compartment will be covered by the Onaway DNR office as well as the Alverno Township Fire Department.

Additional Compartment Information:

- **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 165
T37N, R01W, Sec. 1 & 2
County: Cheboygan
Unit: Atlanta
YOE: 2012
Acres: 1,264 GIS Calculated
Stand Examiner: Cody Stevens
Map Revised: 8/17/2010
Map Phase: Pre-Review

Legend

- Miris Corners
- Highway
- Paved Roads
- Poor Dirt Roads
- Trails
- Intermittent Stream/Drain
- Stream
- Lakes and Rivers
- ORV Trails
- ORV Routes
- Snowmobile Trails

Treatments

- Seed Tree (w/Reserves)
- Thinning (Crown, Low, Systematic)
- Clearcut (w/Reserves, Patch/Strip)

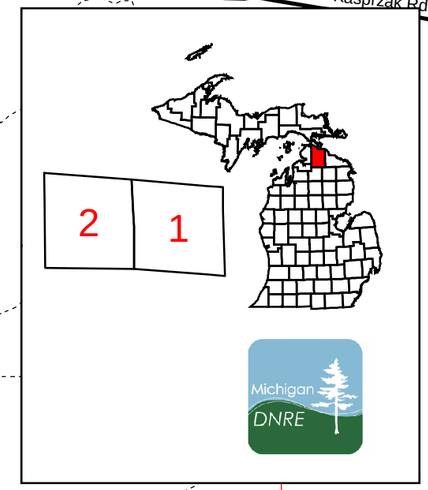
Forest Stands

Level 3

- 412 - Oak Types
- 413 - Aspen Types
- 421 - Planted Pines
- 422 - Natural Pines
- 431 - Upland Mixed Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest

Level 3

- 623 - Emergent Wetland



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

1 6128-Q6
2 4130-A6
3 623-N0
4 6129-Q9
5 4130-A6
6 6132-LM9
7 623-N0
8 4311-UM3
9 4130-A6
10 4123-O9
11 4211-R6
12 4130-A6
13 4311-UM6
14 4211-R6
15 4130-A6
16 4130-A5
17 4133-A6
18 4222-J1
19 4211-R6
20 4311-UM3
21 4133-A3
22 4133-A3
23 4311-UM3
24 4211-R9
25 4221-R6
26 4211-R6
27 4211-R5
28 4211-R6
29 4221-R5
30 4220-W6

Elliot Creek
N Elliot Creek Rd
Alpena State Rd
Rail Road Grade Rd
Kasprzak Rd
Seffern Rd
Smith Rd
Cherry Hill Dr
Zebra Trl
Upper Mograin Rd
N Black River Rd
Bonter Ct
Mud Lake

84°25'0"W 84°24'0"W 84°23'0"W 84°22'0"W
45°38'0"N 45°37'0"N

1 0.5 0 1 Miles

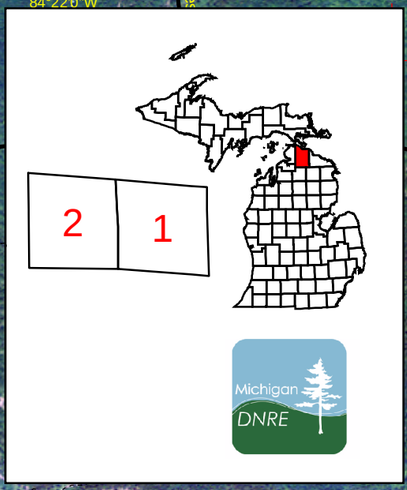
Stand Boundary Map

Compartment 165
T37N, R01W, Sec. 1 & 2
County: Cheboygan
Unit: Atlanta
YOE: 2012
Acres: 1,264 GIS Calculated
Stand Examiner: Cody Stevens
Map Revised: 8/17/2010
Map Phase: Pre-Review

Legend
- Miris Corners
- Trails
- Intermittent Stream/Drain
- Stream
- ORV Trails
- ORV Routes
- Snowmobile Trails
- Stand Boundaries

Forest Stands
Level 3
- 412 - Oak Types
- 413 - Aspen Types
- 421 - Planted Pines
- 422 - Natural Pines
- 431 - Upland Mixed Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest

Non-Forest Stands
Level 3
- 623 - Emergent Wetland



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

1 6128-Q6
2 4130-A6
3 623-N0
4 6129-Q9
5 4130-A6
6 6132-LM9
7 623-N0
8 4311-UM3
9 4130-A6
10 4123-O9
11 4211-R6
12 4130-A6
13 4311-UM6
14 4211-R6
15 4130-A6
16 4130-A5
17 4133-A6
18 4222-J1
19 4211-R6
20 4311-UM3
21 4133-A3
22 4133-A3
23 4311-UM3
24 4211-R9
25 4221-R6
26 4211-R6
27 4211-R5
28 4211-R6
29 4221-R5
30 4220-W6

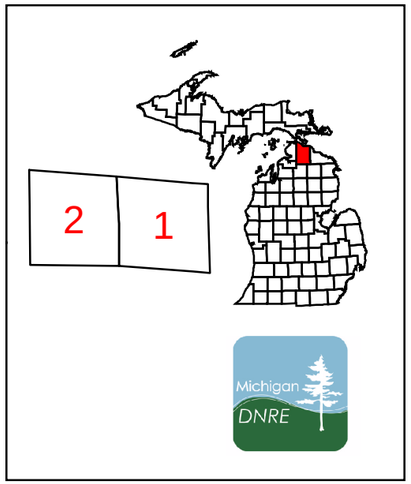
23
Sorem Rd
Kasprzak Rd
Johnson Rd
Gilpin Rd
Wattella Rd
Smith Rd
Cherry Hill Dr
Zebra Trl
Alpena State Rd
N Elm Creek Rd
Fall Road Grade Rd
N Black River Rd
Porter Cr
Upper Maple Rapids Rd

84°25'0"W
84°24'0"W
84°23'0"W
84°22'0"W
45°38'0"N
45°37'0"N

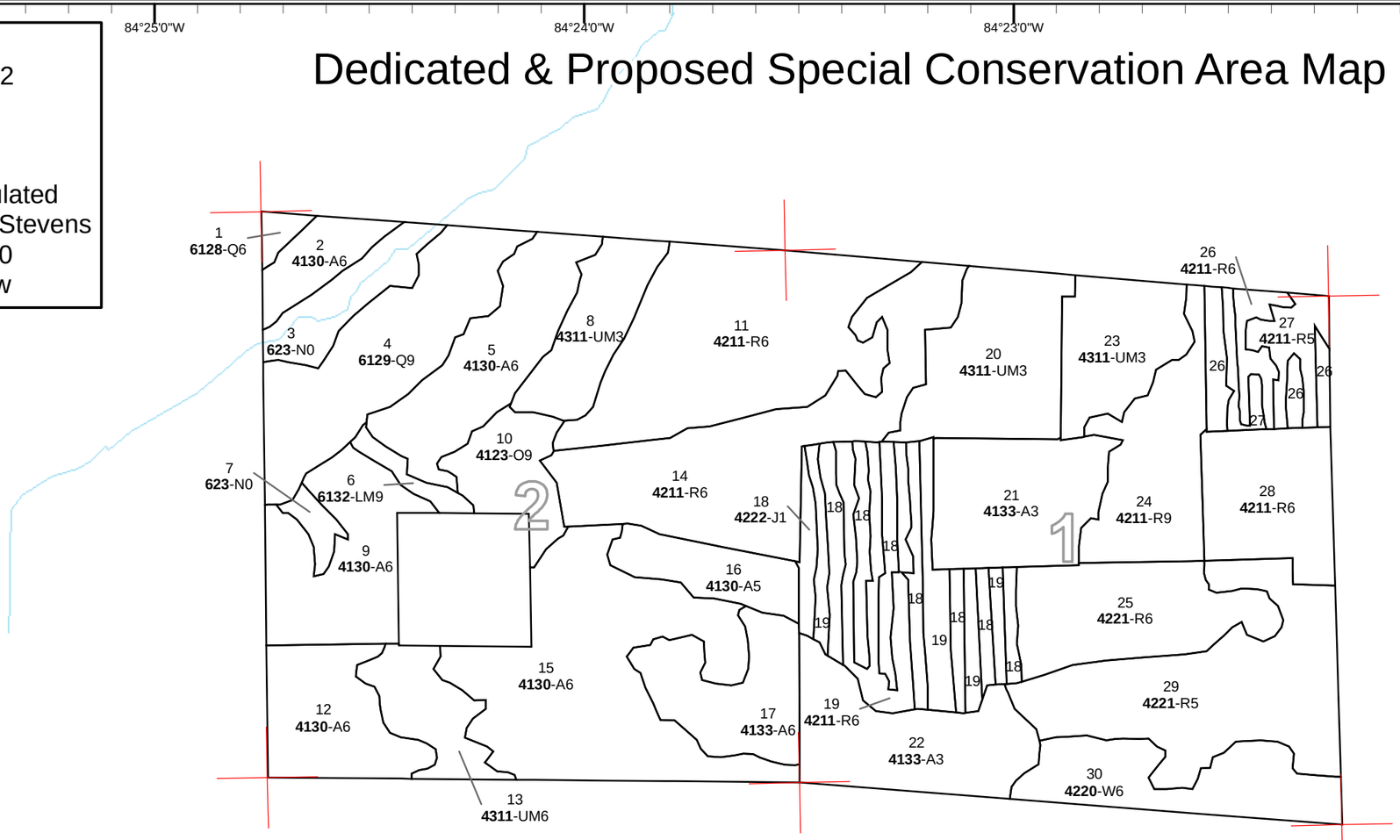
1 0.5 0 1 Miles

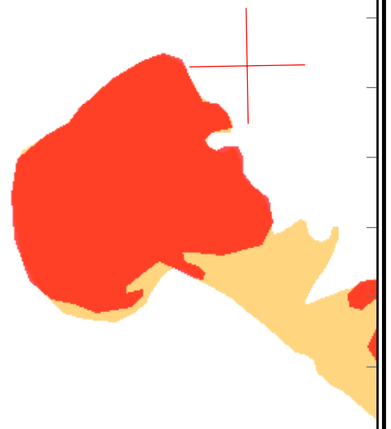
Compartment 165
T37N, R01W, Sec. 1 & 2
County: Cheboygan
Unit: Atlanta
YOE: 2012
Acres: 1,264 GIS Calculated
Stand Examiner: Cody Stevens
Map Revised: 8/17/2010
Map Phase: Pre-Review

Dedicated & Proposed Special Conservation Area Map



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





1 0.5 0 1 Miles

84°26'0"W 84°25'0"W 84°24'0"W 84°23'0"W 84°22'0"W
45°38'0"N 45°37'0"N 45°36'0"N

Table 1 – Total Acres by Cover Type and Age Class

Atlanta Mgt. Unit **Compartment 165 Year of Entry 2012**

Data updated before 2:00 PM

Age Class

	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	Total
Aspen	0	0	48	73	276	16	0	0	0	0	0	0	0	0	0	**413**
Jack Pine	0	48	0	0	0	0	0	0	0	0	0	0	0	0	0	**48**
Lowland Conifers	0	0	0	0	0	0	0	0	0	0	67	0	0	0	0	**67**
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	**6**
Marsh	26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**26**
Oak	0	0	0	0	0	0	0	0	0	24	0	0	0	0	0	**24**
Red Pine	0	0	0	0	50	189	176	86	0	0	0	0	0	0	0	**500**
Upland Mixed Forest	0	0	80	34	23	0	0	0	0	0	0	0	0	0	0	**138**
White Pine	0	0	0	0	0	0	0	0	42	0	0	0	0	0	0	**42**
Total	**26**	**48**	**128**	**107**	**349**	**205**	**176**	**86**	**42**	**30**	**67**	**0**	**0**	**0**	**0**	**1264**

Table 2 – Proposed Treatment Summaries

Data updated before 2:00 PM

Atlanta Mgt. Unit
Year of Entry 2012

Compartment 165
Total Compartment Acres: 1264

Acres by Treatment Type

Commercial Harvest - 185	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
Aspen	48	0	0	0	0	0	**48**
Red Pine	0	0	41	0	96	0	**137**
Total	**48**	**0**	**41**	**0**	**96**	**0**	**185**

Table 3 -- Treatments Prescribed with No Limiting Factor

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
5	**165005-C.Cut**	48.2	4130 - Aspen	High Density Pole	37	Harvest	Clearcut with Reserves	Aspen	Cmpt. Review Proposal

Prescription Specs: Clear Cut. Leave 1-3 oak and pine per acre.

Other Comments: Acceptable regen is any mix of aspen, oak and pine.

Next Steps: Regen check in 3-5 yrs after harvest.

19	**165019-C.Cut**	50.7	42110 - Planted Red Pine	High Density Pole	55	Harvest	Systematic Thinning	Planted Red Pine	Cmpt. Review Proposal

Prescription Specs: Third row thin. No retention necessary.

Other Comments:

Next Steps:

24	**165024-Thin**	45.6	42110 - Planted Red Pine	High Density Log	59	Harvest	Crown Thinning	Planted Red Pine, Mixed Deciduous	Cmpt. Review Proposal

Prescription Specs: Thin to 100 BA. Remove both pine and oak to reach basal area.

Other Comments: ORV Trail runs through stand. Use appropriate specs during Tsale.

Next Steps:

28	**165028-Shelt**	40.7	42110 - Planted Red Pine	High Density Pole	59	Harvest	Seed Tree	Planted Mixed Pine, Mixed Deciduous	Cmpt. Review Proposal

Prescription Specs: Shelterwood cut. Leave 10-30 BA of Oak and Red Pine. Scarify soil with harvest.

Other Comments: Acceptable regen is any mix of pine and oak.

Next Steps: Regen survey in 3-5 yrs after harvest. If regen fails mechanically scarify stand.

Total Treatment Acreage Proposed: 185.1

Table 4 -- Treatments Prescribed with a Limiting Factor

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
			#Error						

Prescription Specs:

Other Comment:

Next Steps:

Limiting Factor and No Treatment Reason

Total Treatment Acreage Proposed: **0**

Data updated before 2:00 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
022_St28C.Cut	25.0				Harvest	Clearcut with Reserves	Oak, Aspen	Cmpt. Review Proposal

Prescription Specs: Cut with stand 14 in Compartment 24. Clear cut: In areas of heavy oak leave up to 10-20BA of oak and pine. In areas predominantly apsen only leave scattered oak.

Other Comments: Acceptable regen is any mix of aspen, oak and pine. Some white pine is present. Leave both a mix red and white oak. No retention is needed because leaving steep slope along northern edge of stand.

Next Steps: Regen survey 3-5 yrs after harvest.

54030_OutOfYOE-STR	1.2				Harvest	Seed Tree with Reserves	Natural Red Pine, Mixed Deciduous	Cmpt. Review Proposal

Prescription Specs: MMark red pine residual to average tree height spacing. Leave 10 BA white pine and all oak, if present. Paint in 2 chain wide buffer along High Country Pathway, using pathway as centerline. Allow whole tree skidding; require chipping of tops, with movement of tops to approved landings to be done concurrently with harvesting. Post sale: scarify sale area to regenerate red pine, but may exclude areas of heavy white pine regeneration.

Other Comments:

Next Steps: Continued scarification until full stocking of red pine is achieved.

54004_St8-Burn	12.1				Prescribed Burn	Unspecified	Red Oak	Cmpt. Review Proposal

Prescription Specs: Burn with adjacent stand in Compartment 24. Understory burn to remove red maple regeneration

Other Comments:

Next Steps: follow up with timber harvest next entry.

Total Treatment Acreage Proposed: **38.2**

Atlanta Mgt. Unit

5 – Forested Stands

Data updated before 2:00 PM

Compartment: 165
Year of Entry: 2012

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	3.7	90		
2	4130 - Aspen	High Density Pole	15.8	47		Elliott creek not frozen yet. no access.
4	6129 - Mixed Coniferous Lowland Forest	High Density Log	63.5	90	111-140	springs coming out of hillside
5	4130 - Aspen	High Density Pole	48.2	37	81-110	some areas of mature aspen.
6	6132 - Mixed Lowland Forest with Cedar	High Density Log	5.8	84		Stand swapped from Non-Forested to Forested. very steep hillsides with springs. small stream in valley.
8	4311 - Pine, Aspen Mix	High Density Sapling	29.1	16		scattered mature oak.
9	4130 - Aspen	High Density Pole	47.9	39	51-80	nice mix of aspen and hdwd with scattered pine and oak.
10	4123 - Red Oak	High Density Log	23.8	85	51-80	mature oak with young stand of aspen underneath.
11	42111 - Planted Red Pine, Mixed Deciduous	High Density Pole	99.4	41	81-110	
12	4130 - Aspen	High Density Pole	37.5	37	1-50	
13	4311 - Pine, Aspen Mix	High Density Pole	23.2	37	1-50	New stand added.
14	42110 - Planted Red Pine	High Density Pole	89.6	41	81-110	not ready to thin.
15	4130 - Aspen	High Density Pole	106.2	37	1-50	New stand added.
16	4130 - Aspen	Medium Density Pole	21.8	28		same stand as one to south only it looks like this stand burned.
17	4133 - Aspen, Mixed Pine	High Density Pole	36.6	37	1-50	New stand added.
18	42220 - Natural Jack Pine	Low Density Sapling	47.7	5		New stand added. good natural regen
19	42110 - Planted Red Pine	High Density Pole	50.7	55	141-170	good heights. some areas of lower BA.
20	4311 - Pine, Aspen Mix	High Density Sapling	51.0	16		

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
21	4133 - Aspen, Mixed Pine	High Density Sapling	48.0	16		
22	4133 - Aspen, Mixed Pine	High Density Sapling	51.1	27	1-50	mix of aspen and pine, scattered mature pine.
23	4311 - Pine, Aspen Mix	High Density Sapling	34.4	24	1-50	
24	42110 - Planted Red Pine	High Density Log	45.6	59	141-170	New stand added.
25	42210 - Natural Red Pine	High Density Pole	49.6	30	81-110	recommend holding stand 10-20 yrs. strips are very intermixed, no need to split.
26	42110 - Planted Red Pine	High Density Pole	20.5	59	81-110	
27	42110 - Planted Red Pine	Medium Density Pole	18.4	59	1-50	New stand added. stand was species thinned in 2004.
28	42110 - Planted Red Pine	High Density Pole	40.7	59	51-80	strips are very intermixed, red pine dominant throughout stand.
29	42211 - Natural Red Pine, Mixed Deciduous	Medium Density Pole	85.8	68	1-50	good mix of aspen and pine.
30	42200 - Natural White Pine	High Density Pole	42.0	75	51-80	New stand added.

6 – Nonforested Stands

Data updated before 2:00 PM

Compartment: 165
Year of Entry: 2012

Stand	Cover Type	Acres	Gen Cmts:
3	623 - Emergent Wetland	21.0	
7	623 - Emergent Wetland	5.4	

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 before 2:00 PM

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.

Data updated before 2:00 PM

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.