Sault Ste Marie Forest Management Unit
Compartment Review Presentation
Compartment #110 Entry Year: 2014
Compartment Acreage: 2,098 County: Chippewa

Revision Date: 7/5/2012

Stand Examiner: Cory Luoto

Legal Description: T44N-R6W, Sections 28, 29, 32 & 33, Trout Lake Township

RMU (if applicable): Mackinac Mix

Management Goals: This compartment is located approximately 1.5 miles southwest of Trout Lake. The accessible parts of the compartment have been treated regularly but there are large areas of cedar and lowland which makes access to several stands impossible. The aspen and spruce – fir types are regenerating nicely and continued cutting is recommended due to their age. The hardwoods need regular treatment to promote health and growth. The Molly Gibson Road and the Huckleberry Road are groomed snowmobile trail in the winter.

Soil and Topography: The uplands are generally Amadon-Rock outcrop complex, Menominee loamy sand, Wallace sands, and Paquin sand. Lowlands and swamps consist primarily of Markey and Carbondale mucks, with Spot-Finch and Markey-Spot-Finch Complexes. Level lowlands to rolling uplands.

Ownership Patterns, Development, and Land Use in and Around the Compartment: The west and south sections surrounding the compartment are in state ownership. The sections to the east are in private ownership. In section 32, the NWSW and the SENW are private land. In section, 29 the N1/2 of the NE ¼ and the NENW is also private. In section 28 the N1/2 of the NW¼ and the entire NE 1/4 are private land.

Unique, Natural Features: Potential for goshawks in mature pine. There is a northern wet meadow in the northern portion of section 12. There is a potential for some rare plant and animal species to inhabit the compartment. Walking fern was found within this compartment and buffers were used to protect the plant.

Archeological, Historical, and Cultural Features: No obvious features were found when doing inventory.

Special Management Designations or Considerations: Potential for raptors to nest in the compartment exists and care will be taken to check stands for nests with buffers placed when necessary. Boulders will be checked for walking fern and buffers used if necessary.

Watershed and Fisheries Considerations:
This compartment contains part of Schwesinger/Schweigner Creek, a tributary to Trout (Carp) Lake. A no clearcut buffer of 100' (BMP) should be maintained adjacent to this stream. The treatment layer in IFMAP looks like the final harvest gets closer than that.

Wildlife Habitat Considerations: Compartment 110 is located west of Trout Lake in the Mackinac Mix Management Area, and is characterized by a mix of lowland and upland types on mucky and sandy soils, respectively. The west side includes the tip of a muskeg, the majority of which is further west. Lowlands continue east of the muskeg and dominate the central part of the compartment, and a number of ponds are scattered through this wetland area. Forest types outside of that area range from lowland hardwoods and

mixed conifers to aspen and northern hardwoods in mesic uplands. Most accessible aspen stands are relatively young, and most hardwoods have been thinned to enhance age class and structural diversity. Beech bark disease is present, and will continue to impact the hardwood stands. The majority of the compartment lies within the southern portion of a deer wintering complex.
Wildlife management objectives include maintaining the integrity of the deer wintering complex; providing young early successional forest in proximity to lowland conifers for white-tailed deer, ruffed grouse, snowshoe hare, and other wildlife; and promoting diversity in northern hardwoods. Healthy beech trees will be left in hardwood stands if found to maintain a source of hard mast important to black bear and deer, and some large wolfy trees will be left in hardwood stands. Cedar and hemlock will be retained where present. Timber harvests will be conducted during the winter months for most stands, allowing tops to be available as winter browse. Snags and some mature scattered trees will remain in aspen and other final harvest stands for woodpeckers and other cavity nesters.

Mineral Resource and Development Concerns and/or Restrictions: Surface sediments consist of peat and muck and lacustrine (lake) sand and gravel, with some areas being thin to discontinuous over bedrock. There is insufficient data to determine the glacial drift thickness. The Silurian Engadine, Manistique and Burnt Bluff Groups subcrop below the glacial drift. The Engadine and Burnt Bluff are quarried for stone/limestone elsewhere in the UP. An Engadine (?) quarry is located five miles to the southeast. A gravel pit is located four miles to the east, but potential appears to be limited. There is no economic oil and gas production in the UP.

Vehicle Access: This compartment has fairly decent vehicle access. H–40, a paved county road along with the Molly-Gibson Road, a gravel county road, is on the north side of the compartment. The O.J. Miller road also a paved county road is on the East side. The center of the compartment is accessed by the Huckleberry Road, which is a gravel county road and the southern portion of the compartment can be reached from the JT Camp road and several two tracks that branch off of it. A four wheel drive maybe necessary during wet periods.

Survey Needs: No new survey projects are required for this compartment with adequate corners present.

Recreational Facilities and Opportunities: The Molly-Gibson Road and the Huckleberry Road are used as a snowmobile trail. The compartment is heavily used for all types of recreational activities including motorized vehicle use, fishing, hunting, trapping and nature viewing. An ORV trail cuts through the southeast corner of the compartment.

Fire Protection: This compartment has lower fire intensity potential. The problem of ground fire does exist in the compartment. The response time to a fire in this area will be longer due to the distance from the field office.

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**

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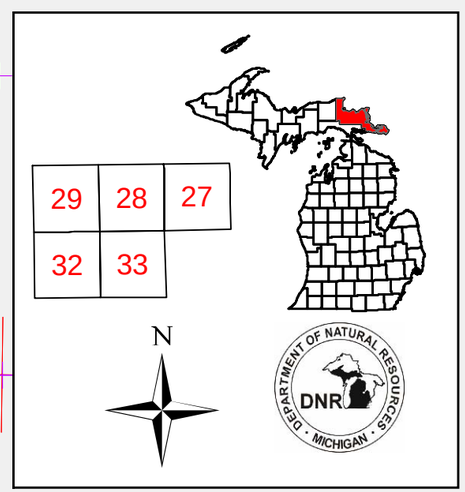
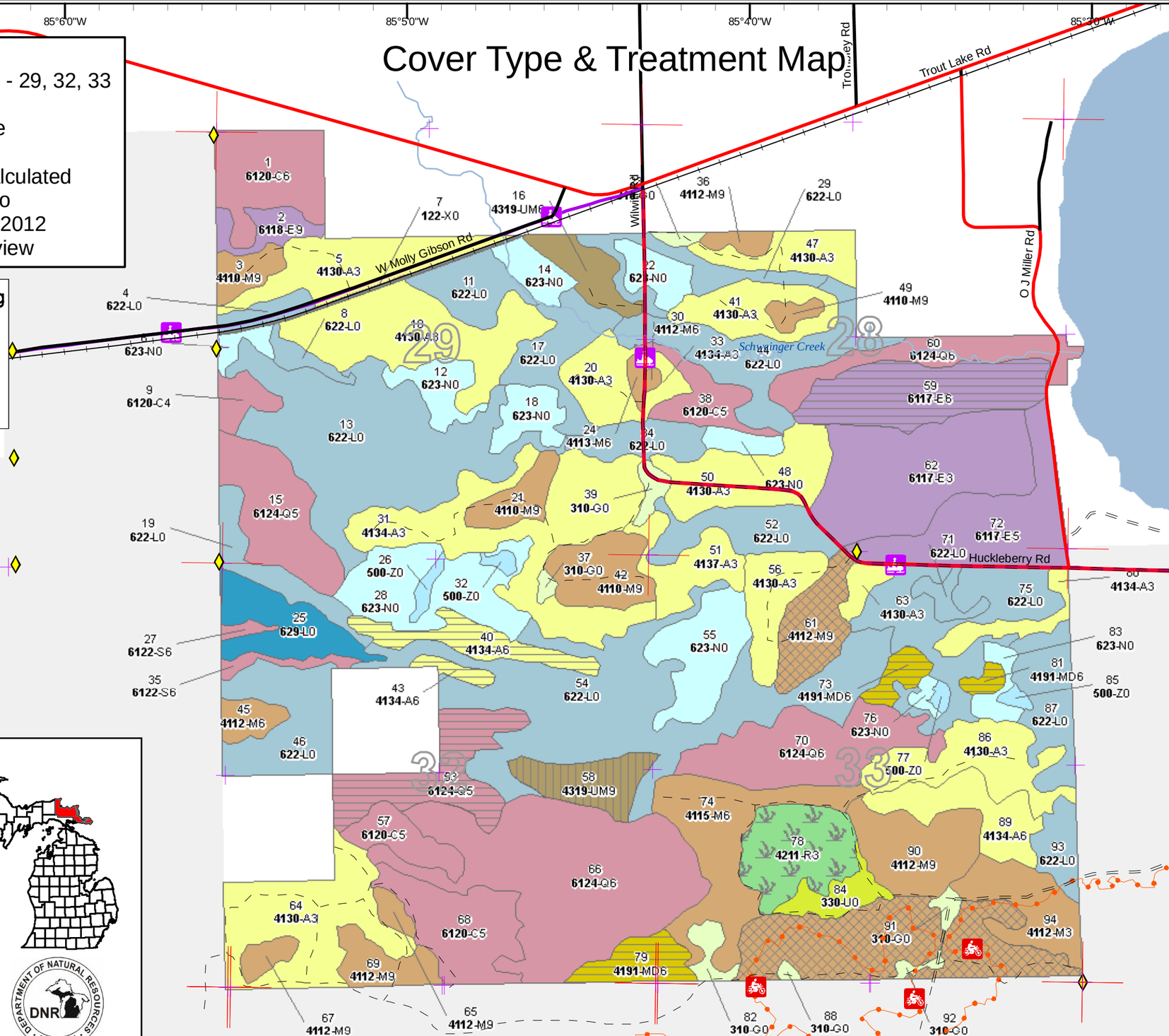
Cover Type & Treatment Map

Compartment: 110
T44N R06W Sec. 27 - 29, 32, 33
County: Chippewa
Unit: Sault Ste. Marie
YOE: 2014
Acres: 2,098 GIS Calculated
Examiner: Cory Luoto
Map Revised: 08/08/2012
Map Phase: Pre-Review

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





Legend

- Remonumented Section Corners
- Miris Corners
- PLSS Corner
- Railroads
- Highway
- County Paved Roads
- Paved Roads
- County Gravel Roads
- Gravel Roads
- Poor Dirt Roads
- County Poor Dirt Roads
- Trail (Non-Recreation)
- Closed Roads
- Motorcycle (DNR Sticker)
- Snowmobile Trail
- Stream
- Intermittent Stream
- Lakes and Rivers

Treatments

- Clearcut (w/Reserves, Patch/Strip)
- Shelter Wood (w/Reserves)
- Selection (Group, Single Tree)
- Pesticide

Forest Stands

Level 3

- 411 - Northern Hardwood
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 431 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest

Non-Forest Stands

Level 3

- 122 - Road/Parking Lot
- 310 - Herbaceous Openland
- 330 - Low-Density Trees
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- 629 - Mixed non-forested wetland
- State Forest Land

Stand Boundary Map

Compartment: 110
T44N R06W Sec. 27 - 29, 32, 33
County: Chippewa
Unit: Sault Ste. Marie
YOE: 2014
Acres: 2,098 GIS Calculated
Examiner: Cory Luoto
Map Revised: 08/08/2012
Map Phase: Pre-Review

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

29	28	27
32	33	

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1 0.5 0 1 Miles

Legend

- Remonumented Section Corners
- Miris Corners
- PLSS Corner
- Railroads
- Highway
- County Paved Roads
- Paved Roads
- County Gravel Roads
- Gravel Roads
- Poor Dirt Roads
- County Poor Dirt Roads
- Trail (Non-Recreation)
- Closed Roads
- Motorcycle (DNR Sticker)
- Snowmobile Trail
- Stream
- Intermittent Stream
- Stand Boundaries

Forest Stands
Level 3
411 - Northern Hardwood
413 - Aspen Types
419 - Mixed Upland Deciduous
421 - Planted Pines
431 - Upland Mixed Forest
611 - Lowland Deciduous Forest
612 - Lowland Coniferous Forest

Non-Forest Stands
Level 3
122 - Road/Parking Lot
310 - Herbaceous Openland
330 - Low-Density Trees
500 - Water
622 - Lowland Shrub
623 - Emergent Wetland
629 - Mixed non-forested wetland

Dedicated & Proposed Special Conservation Area Map

Compartment: 110
T44N R06W Sec. 27 - 29, 32, 33
County: Chippewa
Unit: Sault Ste. Marie
YOE: 2014
Acres: 2,098 GIS Calculated
Examiner: Cory Luoto
Map Revised: 08/08/2012
Map Phase: Pre-Review

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

85°6'0"W 85°5'0"W 85°4'0"W 85°3'0"W 85°2'0"W
46°11'0"N 46°10'0"N

1 6120-C6; 2 6118-E9; 3 4110-M9; 4 622-L0; 5 4130-A3; 6 623-N0; 7 122-X0; 8 622-L0; 9 6120-C4; 10 4130-A3; 11 622-L0; 12 623-N0; 13 622-L0; 14 623-N0; 15 6124-Q5; 16 4319-UM6; 17 622-L0; 18 623-N0; 19 622-L0; 20 4130-A3; 21 4110-M9; 22 623-N0; 23 310-G0; 24 4113-M6; 25 629-L0; 26 500-Z0; 27 6122-S6; 28 623-N0; 29 622-L0; 30 4112-M6; 31 4134-A3; 32 500-Z0; 33 4134-A3; 34 622-L0; 35 6122-S6; 36 4112-M9; 37 310-G0; 38 6120-C5; 39 310-G0; 40 4134-A6; 41 4130-A3; 42 4110-M9; 43 4134-A6; 44 622-L0; 45 4112-M6; 46 622-L0; 47 4130-A3; 48 623-N0; 49 4110-M9; 50 4130-A3; 51 4137-A3; 52 622-L0; 53 6124-Q5; 54 622-L0; 55 623-N0; 56 4130-A3; 57 6120-C5; 58 4319-UM9; 59 6117-E6; 60 6124-Q6; 61 4112-M9; 62 6117-E3; 63 4130-A3; 64 4130-A3; 65 4112-M9; 66 6124-Q6; 67 4112-M9; 68 6120-C5; 69 4112-M9; 70 6124-Q6; 71 622-L0; 72 6117-E5; 73 4191-MD6; 74 4115-M6; 75 622-L0; 76 623-N0; 77 500-Z0; 78 4211-R3; 79 4191-MD6; 80 4134-A3; 81 4191-MD6; 82 310-G0; 83 623-N0; 84 330-U0; 85 500-Z0; 86 4130-A3; 87 622-L0; 88 310-G0; 89 4134-A6; 90 4112-M9; 91 310-G0; 92 310-G0; 93 622-L0; 94 4112-M3

27 28 29 32 33

29 28 27
32 33

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1 0.5 0 1 Miles

Legend

- Remonumented Section Corners
- Miris Corners
- Stand Boundaries

Dedicated Special Conservation Areas

- Boat Access Sites
- Cold Water Streams
- Deer Wintering Areas

Forest Stands

Level 3

- 411 - Northern Hardwood
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 431 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest

Non-Forest Stands

Level 3

- 122 - Road/Parking Lot
- 310 - Herbaceous Openland
- 330 - Low-Density Trees
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- 629 - Mixed non-forested wetland

Table 1 – Total Acres by Cover Type and Age Class

Sault Ste. Marie Mgt. Unit **Compartment 110 Year of Entry 2014**

Cory Luoto : Examiner

Age Class

	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	Total
Aspen	58	233	112	25	0	0	0	0	22	0	0	0	0	0	**450**
Cedar	0	0	0	0	0	0	0	0	0	0	16	0	91	0	**107**
Herbaceous Openland	19	0	0	0	0	0	0	0	0	0	0	0	0	0	**19**
Low-Density Trees	11	0	0	0	0	0	0	0	0	0	0	0	0	0	**11**
Lowland Conifers	0	0	0	0	0	0	0	0	0	72	0	0	191	0	**263**
Lowland Deciduous	0	0	70	0	0	0	0	48	56	0	0	0	0	0	**174**
Lowland Shrub	546	0	0	0	0	0	0	0	0	0	0	0	0	0	**546**
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	0	0	0	0	7	0	**7**
Marsh	135	0	0	0	0	0	0	0	0	0	0	0	0	0	**135**
Mixed Upland Deciduous	0	0	0	0	0	0	0	10	14	0	0	0	0	0	**25**
Northern Hardwood	0	0	26	0	0	0	1	12	51	194	0	0	0	0	**283**
Red Pine	0	33	0	0	0	0	0	0	0	0	0	0	0	0	**33**
Upland Mixed Forest	0	0	0	0	0	14	0	0	19	0	0	0	0	0	**33**
Urban	4	0	0	0	0	0	0	0	0	0	0	0	0	0	**4**
Water	8	0	0	0	0	0	0	0	0	0	0	0	0	0	**8**
Total	**781**	**265**	**208**	**25**	**0**	**14**	**1**	**70**	**163**	**265**	**16**	**0**	**289**	**0**	**2098**

Table 2 – Proposed Treatment Summaries

Sault Ste. Marie Mgt. Unit
Year of Entry 2014

Compartment 110
Total Compartment Acres: 2098

Acres by Treatment Type

Commercial Harvest - 238	Site Prep - 0	Tree Planting - 0	Prescribed Burn - 0	Other - 0
Habitat Cut - 0	Opening Maintenance - 0	Tree Seeding - 0	Pesticide - 33	

Cover Type by Harvest Method

	Clearcut	Selection	Seed Tree	Shelterwood	Thinning	Other - Specify	Total Acres
Aspen	22	0	0	0	0	0	**22**
Lowland Conifers	35	0	0	0	0	0	**35**
Lowland Deciduous	46	0	0	0	0	0	**46**
Mixed Upland Deciduous	25	0	0	0	0	0	**25**
Northern Hardwood	0	91	0	0	0	0	**91**
Upland Mixed Forest	0	0	0	19	0	0	**19**
Total	**128**	**91**	**0**	**19**	**0**	**0**	**238**

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
59	45110059-Cut	45.8	6117 - Lowland Deciduous, Mixed Coniferous	High Density Pole	84		Harvest	Clearcut with Reserves	6117 - Lowland Deciduous, Mixed Coniferous	Cmpt. Review Proposal

Prescription Specs: Clearcut with reserves following the retention guideline. Winter cut. Leave cedar and some scattered mature trees representative of the stand plus one or more retention pocket.

Other Comments:

Next Steps: Follow-up treatment with a regeneration survey as per the work instructions. Acceptable regeneration is aspen, maple, cherry, cedar, yellow and paper birch, balsam fir, white spruce, black spruce and white pine.

Proposed Start Date: 10/01/2013

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
61	45110061-Cut	22.1	4112 - Maple, Beech, Cherry Association	High Density Log	82	111-140	Harvest	Single Tree Selection	4113 - R.Maple, Conifer	Cmpt. Review Proposal

Prescription Specs: Mark stand to 80 to 90 Basal Area. Retain some beech with the smooth bark and wildlife trees. Winter cut. Maintain a representation of mature beech, yellow birch, mature conifers where present, all hemlock and healthy beech. Maintain coarse woody debris for drumming logs and habitat for other species. Be careful of existing regeneration.

Other Comments:

Next Steps: Follow-up treatment with a regeneration survey as per the work instructions. Acceptable regeneration is aspen, maple, cherry, cedar, yellow and paper birch, balsam fir, white spruce, black spruce and white pine.

Proposed Start Date: 10/01/2013

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
79	45110079-Cut	14.5	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	80		Harvest	Clearcut with Reserves	4190 - Mixed Upland Deciduous with Cedar	Cmpt. Review Proposal

Prescription Specs: Clearcut with reserves following the retention guideline.

Other Comments:

Next Steps: Follow-up treatment with a regeneration survey as per the work instructions. Acceptable regeneration is aspen, maple, cherry, cedar, yellow and paper birch, balsam fir, white spruce, black spruce and white pine.

Proposed Start Date: 10/01/2013

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
90	45110090_beech-Cut	45.5	4112 - Maple, Beech, Cherry Association	High Density Log	93	81-110	Harvest	Single Tree Selection	4111 - S.Maple, Hard Mast Association	Cmpt. Review Proposal

Prescription Specs: Cut all of the beech in the stand. When cruising, mark 2-3 beech per acre to leave.

Other Comments: Beech bark disease is present in the stand.
Retain some beech with the smooth bark and wildlife trees.

Next Steps: Follow-up treatment with a regeneration survey as per the work instructions. Acceptable regeneration is aspen, maple, cherry, beech, yellow and paper birch, ironwood, balsam fir, white spruce and white pine.

Proposed Start Date: 10/01/2013

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
90	45110090-Cut	23.3	4112 - Maple, Beech, Cherry Association	High Density Log	93	81-110	Harvest	Single Tree Selection	4112 - Maple, Beech, Cherry Association	Cmpt. Review Proposal

Prescription Specs: Mark stand to 80 to 90 Basal Area. Retain some beech with the smooth bark and wildlife trees. Some larger canopy gaps may be desirable to enhance the advanced regeneration present. Leave all hemlock and do not reach into hemlock pockets. Leave any healthy beech and 3-5 beech per acre where present as well as a component of cherry. Consider oak and/or hemlock planting.

Other Comments:

Next Steps: Follow-up treatment with a regeneration survey as per the work instructions. Acceptable regeneration is maple, cherry, beech, paper and yellow birch, basswood, aspen and ironwood.

Proposed Start Date: 10/01/2013

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
78	45110078-Spray	32.8	42110 - Planted Red Pine	High Density Sapling	15		Pesticide	Aerial	42110 - Planted Red Pine	Cmpt. Review Proposal

Prescription Specs: Monitor effects of release and treat as necessary. Monitor for RHPS and if monitoring shows that treatment is recommended, then spray when/if necessary with appropriate insecticide recommended by Forest Health Specialist/TMS.

Other Comments:

Next Steps: Continue to monitor site and the effects of spraying if treated.

Proposed Start Date: Unspecified

Total Treatment Acreage Proposed: 183.8

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
40	45110040-Cut	18.4	4134 - Aspen, Spruce/Fir	High Density Pole	81		Harvest	Clearcut with Reserves	4134 - Aspen, Spruce/Fir	Cmpt. Review Proposal

Prescription Specs: Clearcut with reserves following the retention guideline. Winter cut. No chipping of tops.

Other Comment:

Next Steps: Follow-up treatment with a regeneration survey as per the work instructions. Acceptable regeneration is maple, cherry, beech, paper and yellow birch, balsam fir, spruce, aspen and hemlock.

Proposed Start Date: 10/01/2013

Limiting Factor and No Treatment Reason: 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
Stands would have to be accessed through large lowland brush stand that has moving water in it.

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
43	45110043-Cut	4.0	4134 - Aspen, Spruce/Fir	High Density Pole	81		Harvest	Clearcut with Reserves	4134 - Aspen, Spruce/Fir	Cmpt. Review Proposal

Prescription Specs: Clearcut with reserves following the retention guideline.
Winter cut. No chipping of tops.

Other Comment:

Next Steps: Follow-up treatment with a regeneration survey as per the work instructions. Acceptable regeneration is maple, cherry, beech, paper and yellow birch, balsam fir, spruce, aspen and hemlock.

Proposed Start Date: 10/01/2013

Limiting Factor and No Treatment Reason: 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
Stands would have to be accessed through large lowland brush stand that has moving water in it.

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
53	45110053-Cut	34.9	6124 - Lowland Spruce-Fir	Medium Density Pole	95		Harvest	Clearcut with Reserves	6128 - Lowland Coniferous, Mixed Deciduous	Cmpt. Review Proposal

Prescription Specs: Clearcut with reserves following the retention guideline.

Other Comment:

Next Steps: Follow-up treatment with a regeneration survey as per the work instructions. Acceptable regeneration is aspen, maple, cherry, cedar, yellow and paper birch, balsam fir, white spruce, black spruce and white pine.

Proposed Start Date: 10/01/2013

Limiting Factor and No Treatment Reason: 2I: Survey needed
Very poor quality stand. Small Diameters and very wet.

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
53	**45110053-Cut**	34.9	6124 - Lowland Spruce-Fir	Medium Density Pole	95		Harvest	Clearcut with Reserves	6128 - Lowland Coniferous, Mixed Deciduous	Cmpt. Review Proposal

Prescription Specs: Clearcut with reserves following the retention guideline.

Other Comment:

Next Steps: Follow-up treatment with a regeneration survey as per the work instructions. Acceptable regeneration is aspen, maple, cherry, cedar, yellow and paper birch, balsam fir, white spruce, black spruce and white pine.

Proposed Start Date: 10/01/2013

Limiting Factor and No Treatment Reason: 2I: Survey needed

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
58	**45110058-Cut**	19.4	4319 - Mixed Upland Forest	High Density Log	85	81-110	Harvest	Shelterwood	4113 - R.Maple, Conifer	Cmpt. Review Proposal

Prescription Specs: Cut all deciduous 2" or more and conifer 4" or more except leave all white pine, hemlock and yellow birch. Also leave cedar. Leave the southeast corner where these species are more dominant uncut, as well as any other area in the stand with similar characteristics.

Other Comment:

Next Steps: Follow-up treatment with a regeneration survey as per the work instructions. Acceptable regeneration is maple, cherry, beech, paper and yellow birch, balsam fir, spruce, aspen, white pine and hemlock.

Proposed Start Date: 10/01/2013

Limiting Factor and No Treatment Reason: 2G: Too wet (sensitive soils, does not include access issues)

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
73	**45110073-Cut**	7.1	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	74		Harvest	Clearcut with Reserves	4193 - Birch, Aspen	Cmpt. Review Proposal

Prescription Specs: Clearcut with reserves following the retention guideline. Winter cut, no chipping of tops.

Other Comment:

Next Steps: Follow-up treatment with a regeneration survey as per the work instructions. Acceptable regeneration is aspen, maple, cherry, cedar, yellow and paper birch, balsam fir, white spruce, black spruce and white pine.

Proposed Start Date: 10/01/2013

Limiting Factor and No Treatment Reason: 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)

Table 4 -- Treatments Prescribed with a Limiting Factor

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
81	**45110081-Cut**	3.3	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	74		Harvest	Clearcut with Reserves	4193 - Birch, Aspen	Cmpt. Review Proposal

Prescription Specs: Clearcut with reserves following the retention guideline.

Other Comment:

Next Steps: Follow-up treatment with a regeneration survey as per the work instructions. Acceptable regeneration is aspen, maple, cherry, cedar, yellow and paper birch, balsam fir, white spruce, black spruce and white pine.

Proposed Start Date: 10/01/2013

Limiting Factor and No Treatment Reason: 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)

Total Treatment Acreage Proposed: 122.0

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
45104_OutOfY OE-Cut	19.8					Harvest	Crown Thinning	42110 - Planted Red Pine	Cmpt. Review Proposal

Prescription Specs: Thin to around 120 Basal Area. Leave species diversity within the stand were present.

Other Comments: This was a buffer left along the creek from a sale called Golden Eagle.

Next Steps:

Proposed Start Date: 10/01/2013

45152062-Cut	5.5	4115 - Y.Birch, Hemlock NH	High Density Log	76		Harvest	Clearcut with Reserves	4115 - Y.Birch, Hemlock NH	Cmpt. Review Proposal

Prescription Specs: Clear Cut the stand leaving all white pine, hemlock, cedar and yellow birch. Also, leave one healthy, mature red maple, black cherry, spruce, fir, paper birch or sugar maple in order to retain a representation of the stand.

Other Comments: cut with adjacent compartment.

Next Steps: Check for regeneration in 4-5 years. Acceptable regeneration will include red maple, yellow birch, hemlock, white pine, black cherry, sugar maple, aspen, ash, beech, and balsam fir.

Proposed Start Date: 10/01/2011

45157_OutOfY OE-Cut	0.7					Harvest	Low Thinning	42110 - Planted Red Pine	Cmpt. Review Proposal

Prescription Specs: Thin to around 120 Basal Area. Leave species diversity within the stand where present.

Other Comments: cut with stand 1 in comp 158.

Next Steps:

Proposed Start Date: 10/01/2013

45195_OutOfY OE-Cut	27.3					Harvest	Single Tree Selection	4111 - S.Maple, Hard Mast Association	Cmpt. Review Proposal

Prescription Specs: Cut all of the beech in the stand. Mark 2-3 beech to leave when cruising.

Other Comments: Beech bark disease is affecting the beech within this stand.

Next Steps: Follow-up treatment with a regeneration survey as per the work instructions. Acceptable regeneration is aspen, maple, cherry, beech, yellow and paper birch, ironwood, balsam fir, white spruce and white pine.

Proposed Start Date: 10/01/2013

45202_OutOfY OE-Cut	449.6					Harvest	Single Tree Selection	4111 - S.Maple, Hard Mast Association	Cmpt. Review Proposal

Prescription Specs: Cut all beech in the stand. While cruising mark 2-3 beech per acre to leave.

Other Comments: Beech bark disease is present in the stand.

Next Steps: Follow-up treatment with a regeneration survey as per the work instructions. Acceptable regeneration is aspen, maple, cherry, beech, yellow and paper birch, ironwood, balsam fir, white spruce and white pine.

Proposed Start Date: 10/01/2012

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
Total Treatment Acreage Proposed:	**502.9**								

Data updated before 2:00 PM

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	6120 - Lowland Cedar	High Density Pole	33.6	130		Decent cedar stand, pretty heavily browsed. No cedar regen.
2	6118 - Lowland Deciduous with Cedar	High Density Log	10.1	82		Wet red maple and cedar. Stand to the south were treated last entry. This stand drops off of high ground and is extremely wet.
3	4110 - Sugar Maple Association	High Density Log	9.1	77	51-80	Stand was thinned in the previous entry. Look at thinning again in ten yrs.
5	4130 - Aspen	High Density Sapling	34.2	15		Nice aspen, a majority of the stand is upland with pockets of wetter ground.
9	6120 - Lowland Cedar	Low Density Pole	8.3	124		
10	4130 - Aspen	High Density Sapling	55.5	15		Nice aspen stand. It is growing great. Not alot of conifer within the stand.
15	6124 - Lowland Spruce-Fir	Medium Density Pole	36.8	95		Very wet and small diameters in most areas. Stnad could be alot older based on previous inventory, but I went with the tree I cored.
16	4319 - Mixed Upland Forest	High Density Pole	13.8	52		Decent young Mackinac Mix stand. Diameters are a little to small to harvest now. Look at cutting in 10-20 yrs.
20	4130 - Aspen	High Density Sapling	17.4	26		Nice aspen stand. Some balsam in the canopy and understory but alot less than othe stands in the area.
21	4110 - Sugar Maple Association	High Density Log	12.2	88	81-110	Stand was thinned in 2006. Look at thinning again next entry. Decent amounts of hard maple regen.
24	4113 - R.Maple, Conifer	High Density Pole	2.7	70	51-80	This stand adds nice diversity to the area. An upland island.
27	6122 - Black Spruce	High Density Pole	2.1	146		Stand data taken from a plane.
30	4112 - Maple, Beech, Cherry Association	High Density Pole	1.2	63	51-80	Stand was thinned last entry. Probably going to need twenty years before thinning again.
31	4134 - Aspen, Spruce/Fir	High Density Sapling	73.8	22		This is a large aspen complex. A majority of the stand was harvested in 1990. Portions were also cut in 1983 but the are almost impossible to distiguish on the ground. Heavier to conifer in the north east part of the stand.
33	4134 - Aspen, Spruce/Fir	High Density Sapling	5.3	7		Stand was cut in 2005. Regen doing really good.
35	6122 - Black Spruce	High Density Pole	4.8	146		Stand data is from adjacent compartment. This data was observed from a plane.

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
36	4112 - Maple, Beech, Cherry Association	High Density Log	4.7	82	81-110	Stand was thinned pretty hard in 1995. Look at cutting in ten years.
38	6120 - Lowland Cedar	Medium Density Pole	15.7	102		A poor quality cedar stand. Very wet and somewhat sparce in some places.
40	4134 - Aspen, Spruce/Fir	High Density Pole	18.4	81		This is the larger of two mackinac mix Islands. It will be factor limited due to access and quality.
41	4130 - Aspen	High Density Sapling	21.8	16		Nice aspen stand. Regen about twenty feet tall.
42	4110 - Sugar Maple Association	High Density Log	22.3	90	81-110	Stand was thinned in 2006. Look at thinning again in ten more years. Nice amounts of maple regen.
43	4134 - Aspen, Spruce/Fir	High Density Pole	4.0	81		One of two island of mackinac mix. This is the smaller of the two. It will be factor limited do to access and quality.
45	4112 - Maple, Beech, Cherry Association	High Density Pole	7.8	85	81-110	Data was taken from adjacent compartment.
47	4130 - Aspen	High Density Sapling	17.8	16		Nice aspen stand. Regen doing great 25' tall.
49	4110 - Sugar Maple Association	High Density Log	4.3	80	81-110	Stand was thinned pretty hard in 1995. Wait ten years before thinning again.
50	4130 - Aspen	High Density Sapling	34.9	15		Stand was cut in 1997. Doing good for the most part. There are some wet areas where the regen is a little more sparce.
51	4137 - Aspen, Birch	High Density Sapling	19.5	7		Regen is doing pretty good. Surprising amount of paper birch regen.
53	6124 - Lowland Spruce-Fir	Medium Density Pole	34.9	95		Wet, poor quality lowland conifer stand. Will be factor limited because of poor quality and need of survey.
56	4130 - Aspen	High Density Sapling	20.9	27		Nice aspen stand. A little wetter site but not lowland.
57	6120 - Lowland Cedar	Medium Density Pole	14.4	133		This stand was thinned in 2007. Everything was taken except for cedar and hemlock.
58	4319 - Mixed Upland Forest	High Density Log	19.4	85	81-110	This is an upland island surrounded by lowland brush and small cedar. It should be factor limited due to poor quality and access. The red maple are all pulp.
59	6117 - Lowland Deciduous, Mixed Coniferous	High Density Pole	45.8	84		This is a wett poor quality Mackinac Mix stand. More red maple to the east. If we decide to cut we should leave a buffer along OJ Miller Road.

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
60	6124 - Lowland Spruce-Fir	High Density Pole	27.3	122		This stand has a creek flowing into Carp Lake. Riparian zone.
61	4112 - Maple, Beech, Cherry Association	High Density Log	22.1	82	111-140	This stand could use a thinning, take care to protect advanced regeneration.
62	6117 - Lowland Deciduous, Mixed Coniferous	High Density Sapling	70.3	27		The aspen regen is doing pretty good. Pretty wet in some areas.
63	4130 - Aspen	High Density Sapling	5.8	16		Nice, thick young aspen stand. Not alot of conifer.
64	4130 - Aspen	High Density Sapling	52.7	14		Nice aspen regen. Unbelievable how well the trees grow in rock!
65	4112 - Maple, Beech, Cherry Association	High Density Log	4.1	95	81-110	Stand was thinned last entry. Lots of beech and red maple regen.
66	6124 - Lowland Spruce-Fir	High Density Pole	115.1	138		Very wet, poor quality stand. Large areas are only sapling size.
67	4112 - Maple, Beech, Cherry Association	High Density Log	5.5	95	81-110	Stand was thinned last entry. Lots of beech and red maple regen.
68	6120 - Lowland Cedar	Medium Density Pole	34.8	125		Stand was cut last entry. It was a Q6, all that remains is the cedar. Not alot of visible regen yet.
69	4112 - Maple, Beech, Cherry Association	High Density Log	13.8	95	81-110	Stand was thinned last entry. Lots of beech and red maple regen.
70	6124 - Lowland Spruce-Fir	High Density Pole	48.7	138		Very wet, poor quality stand. Large areas of only sapling size trees.
72	6117 - Lowland Deciduous, Mixed Coniferous	Medium Density Pole	48.0	72		Very wet, sparce lowland aspen stand. Cut next entry.
73	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	7.1	74		Birch, aspen island. Access would be very difficult even in a cold winter. Water in stand surrounding appears to be moving.
74	4115 - Y.Birch, Hemlock NH	High Density Pole	47.2	96	51-80	This stand was thinned in the last entry. Look at possible shelterwood or seed tree next entry. Some wet areas.
78	42110 - Planted Red Pine	High Density Sapling	32.8	15		Red pine is doing great. Monitor for pests.
79	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	14.5	80		This is a mackinac mix stand. Clear cut with reserves. Leave the cedar in the northern part of the stand.
80	4134 - Aspen, Spruce/Fir	High Density Sapling	10.0	16		Decent aspen stand. Lots of spruce and fir.

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
81	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	3.3	74		Birch, aspen island. Access would be very difficult even in the coldest winter. Water in surrounding stand appears to be moving.
86	4130 - Aspen	High Density Sapling	33.5	2		ASpen has come back awesome.
89	4134 - Aspen, Spruce/Fir	High Density Pole	25.0	35		Stand is just barely a pole stand. Doing pretty good.
90	4112 - Maple, Beech, Cherry Association	High Density Log	100.5	93	81-110	Most of this stand was select cut last entry. (World Series Mix) The portion of the stand east of JT Camp road needs to be thinned.
94	4112 - Maple, Beech, Cherry Association	High Density Sapling	25.7	28		A young M3 stand. Very diverse. Some areas have heavy cherry while others have lots of hard maple and red maple. Also a fair amount of conifer.

Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
4	622 - Lowland Shrub	6.8	N\A	Unspecified	
6	623 - Emergent Wetland	4.8	N\A	Unspecified	
7	122 - Road/Parking Lot	3.6	N\A	Unspecified	
8	622 - Lowland Shrub	5.5	N\A	Unspecified	
11	622 - Lowland Shrub	17.7	N\A	Unspecified	
12	623 - Emergent Wetland	12.6	N\A	Unspecified	
13	622 - Lowland Shrub	101.8	N\A	Unspecified	
14	623 - Emergent Wetland	9.9	N\A	Unspecified	
17	622 - Lowland Shrub	22.8	N\A	Unspecified	
18	623 - Emergent Wetland	12.0	N\A	Unspecified	
19	622 - Lowland Shrub	16.0	N\A	Unspecified	
22	623 - Emergent Wetland	11.1	N\A	Unspecified	
23	310 - Herbaceous Openland	2.0	N\A	Unspecified	
25	629 - Mixed non-forested wetland	26.2	N\A	Unspecified	
26	50 - Water	2.9	N\A	Unspecified	
28	623 - Emergent Wetland	40.2	N\A	Unspecified	
29	622 - Lowland Shrub	16.8	N\A	Unspecified	
32	50 - Water	2.0	N\A	Unspecified	

Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
34	622 - Lowland Shrub	15.2	N\A	Unspecified	
37	310 - Herbaceous Openland	1.6	N\A	Unspecified	
39	310 - Herbaceous Openland	4.3	N\A	Unspecified	
44	622 - Lowland Shrub	41.5	N\A	Unspecified	
46	622 - Lowland Shrub	33.8	N\A	Unspecified	
48	623 - Emergent Wetland	5.8	N\A	Unspecified	
52	622 - Lowland Shrub	23.9	N\A	Unspecified	
54	622 - Lowland Shrub	127.0	N\A	Unspecified	
55	623 - Emergent Wetland	29.1	N\A	Unspecified	
71	622 - Lowland Shrub	5.8	N\A	Unspecified	
75	622 - Lowland Shrub	48.7	N\A	Unspecified	
76	623 - Emergent Wetland	2.5	N\A	Unspecified	
77	50 - Water	1.6	N\A	Unspecified	
82	310 - Herbaceous Openland	5.5	N\A	Unspecified	
83	623 - Emergent Wetland	6.7	N\A	Unspecified	
84	330 - Low-Density Trees	10.9	N\A	Unspecified	
85	50 - Water	1.8	N\A	Unspecified	
87	622 - Lowland Shrub	25.3	N\A	Unspecified	

Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
88	310 - Herbaceous Openland	1.1	N\A	Unspecified	
91	310 - Herbaceous Openland	2.6	N\A	Unspecified	
92	310 - Herbaceous Openland	1.9	N\A	Unspecified	
93	622 - Lowland Shrub	11.5	N\A	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

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	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.