Sault Forest Management Unit
Compartment Review Presentation

Compartment #11 **Entry Year: 2012**
Compartment Acreage: 766 **County: Chippewa**

Revision Date: 06/22/2010

Stand Examiner: Jeff Wise

Legal Description: T42N R5E Sec 19, 20, 30, 31, 32

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

Management Goals: This entry, management goals will be to regenerate the mature aspen types in the northern part of the compartment as well as a small hardwood thinning. The south part of the comp is deer yard with cedar types predominant. The western stands are upland spruce / aspen types with low productivity associated with rocky shallow soils.

Soil and Topography: Soils are Shelter series, very rocky, yet gently rolling terrain with several bedrock escarpments throughout. Area is very scenic to the north.

Ownership Patterns, Development, and Land Use in and Around the Compartment: Private ownership surrounds this compartment and all treatments will require access permission. The only State ownership is at the southern boundary along M-134. Private holdings consist of permanent and seasonal homes and cabins. No commercial developments near the compartment. Land use is mostly hunting, hiking, and perhaps mushroom hunting.

Unique, Natural Features: This compartment holds the potential for species on the MNFI list, and has been referenced in relation to treatments. The northern most boundary is Lake Huron shoreline along Potagannissing Bay.

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

Special Management Designations or Considerations: None at this time.

Watershed and Fisheries Considerations: This compartment contains Stringham Lake and Lake Huron coastline. The prescribed treatments are appropriate for the protection of these resources.

Wildlife Habitat Considerations: This compartment is located on the west side of Drummond Island between M-134 and the northern shoreline of the island. It contains cover types including cedar, upland mixed stands, aspen, and spruce/fir, and also contains part of Stringham Lake on the east side. Some parts of the compartment, like the western side near the center, contain stunted aspen over limestone bedrock in places. Conditions in other areas, such as the northern part of the compartment, for aspen and other tree species are better. Management will focus on thinning a hardwood stand and regenerating aspen nearby. In these harvested areas, oak, cedar, pine, yellow birch, and hemlock will be left as well as some scattered mature trees in areas to be clearcut. Most remaining parts of the compartment will remain to maintain existing cover. Wildlife species benefitting from this management include white-tailed deer, ruffed grouse, woodpeckers, and snowshoe hare.

Mineral Resource and Development Concerns and/or Restrictions: Surface sediments consist of thin to discontinuous glacial deposits over bedrock. The glacial drift thickness varies between 10 and 50 feet. The Silurian Engadine, Manistique and Burnt Bluff Groups subcrop below the thin glacial drift. The Engadine is quarried for stone/dolomite to the south of the compartment. The nearest gravel pits are located on the mainland to the west. There is no economic oil and gas production in the UP, currently.

Vehicle Access: Limited access with no public roads within the compartment. Treatments proposed will need access permission. Two trails enter the compartment from private land where previous treatments have been conducted.

Survey Needs: None needed.

Recreational Facilities and Opportunities: No facilities or trails of any kind. Hunting, hiking, and mushrooming are about the only things to do here. The west side abuts Conservancy land where a butterfly sanctuary has been designated.

Fire Protection: Very limited road access into the interior with little or no water sources available within. The compartment is primarily a peninsula into Potagannissing Bay so water is available from private land on the water. Stringham Lake has no vehicle access except from private land along Sturgeon Bay Rd.

Additional Compartment Information: None.

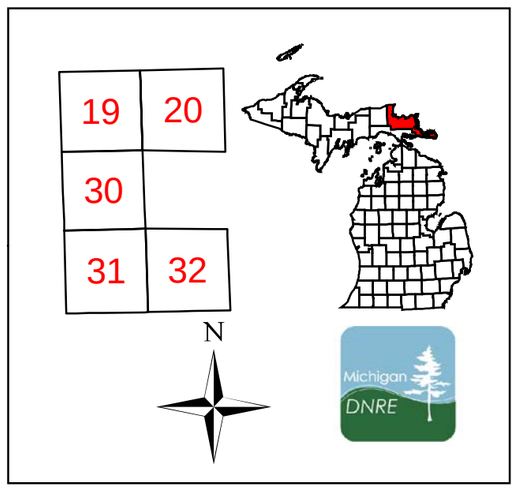
- **The following reports from the Inventory are attached:**
  - **Total Acres by Cover Type and Age Class**
  - **Proposed Treatment Summary**
  - **Proposed Treatments – No Limiting Factors**
  - **Proposed Treatments – With Limiting Factors**
  - **Stand Details (Forested and Nonforested)**
  - **Dedicated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

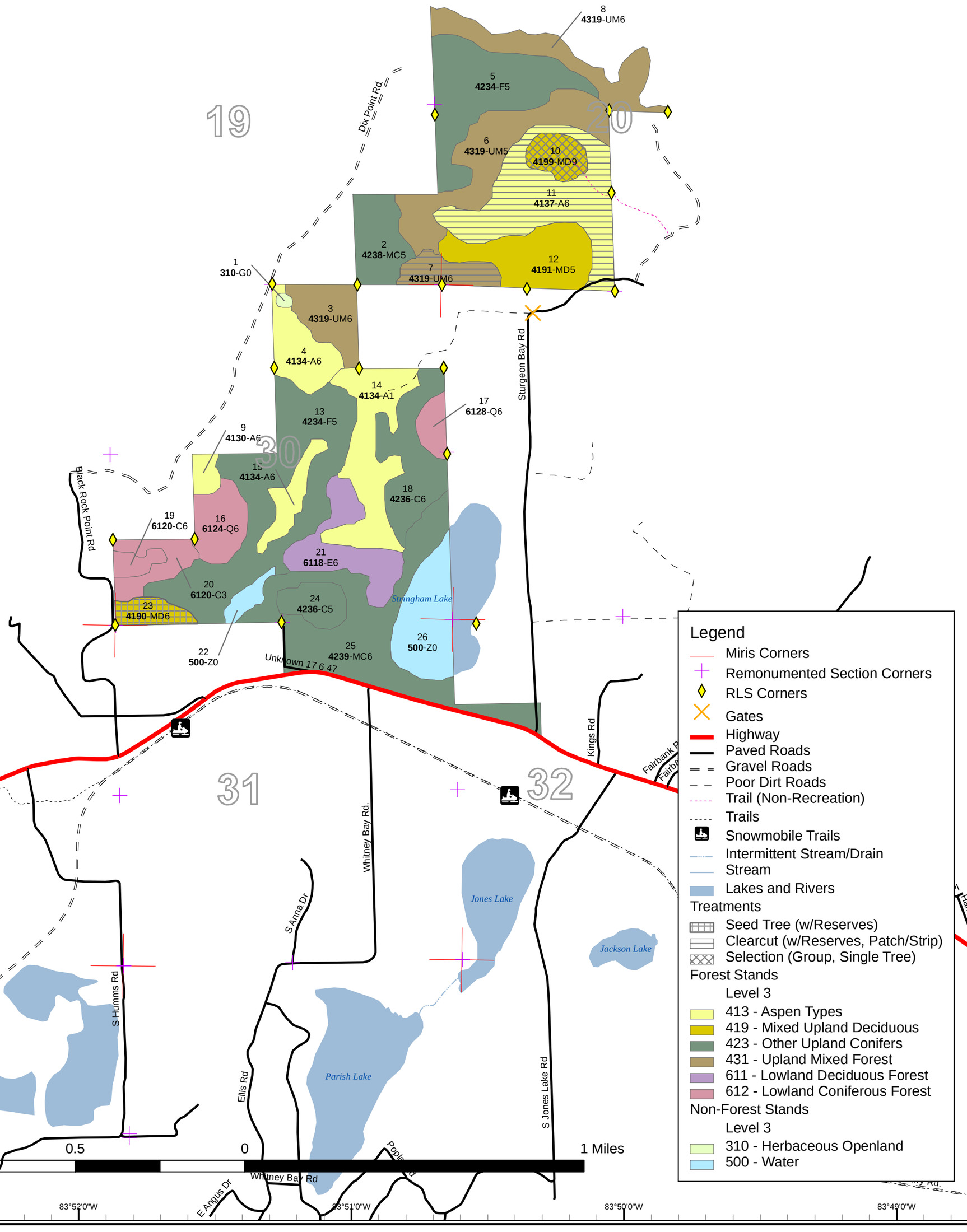
- **The following information is displayed, where pertinent, on the attached compartment maps:**
  - **Base feature information, stand boundaries, cover types, and numbers**
  - **Proposed treatments**
  - **Details on the road access system**

Cover Type & Treatment Map

Compartment 011
T42N, R05E, Sec. 19, 20, 30 - 32
County: Chippewa
Unit: Sault Ste. Marie
YOE: 2012
Acres: 766 GIS Calculated
Stand Examiner: Jeffrey Wise
Map Revised: 8/13/2010
Map Phase: Pre-Review

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





Stand Boundary Map

Compartment 011
T42N, R05E, Sec. 19, 20, 30 - 32
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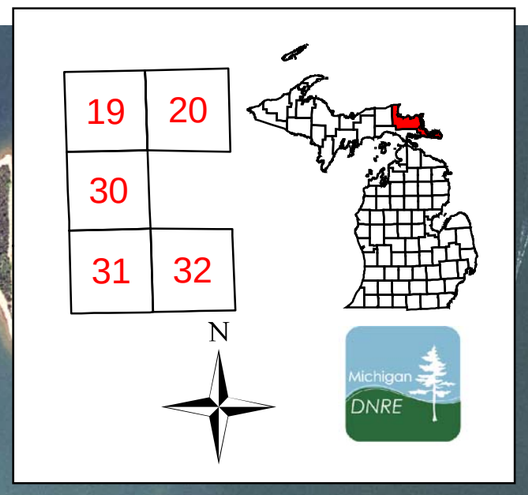


Legend
- Miris Corners
- Remonumented Section Corners
- Gates
- RLS Corners
- Highway
- Paved Roads
- Gravel Roads
- Poor Dirt Roads
- Trail (Non-Recreation)
- Trails
- Snowmobile Trails
- Intermittent Stream/Drain
- Stream
- Stand Boundaries

Forest Stands

Level 3
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 423 - Other Upland Conifers
- 431 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest

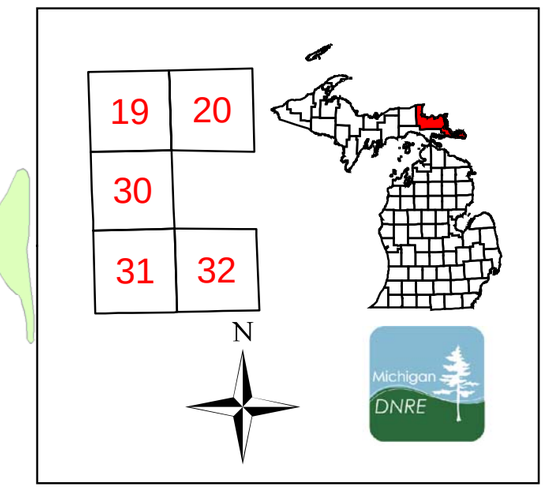
Non-Forest Stands

Level 3
- 310 - Herbaceous Openland
- 500 - Water

Dedicated & Proposed Special Conservation Area Map

Compartment 011
T42N, R05E, Sec. 19, 20, 30 - 32
County: Chippewa
Unit: Sault Ste. Marie
YOE: 2012
Acres: 766 GIS Calculated
Stand Examiner: Jeffrey Wise
Map Revised: 8/13/2010
Map Phase: Pre-Review

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



Legend
- Miris Corners
- Remonumented Section Corners

Proposed Special Conservation Areas
- SCA - Special Conservation Area
- SCA Removal

Dedicated Special Conservation Areas
- Great Lakes Islands
- Mineral Resource Polygon
- Ecological Reference Areas
- Stand Boundaries

Forest Stands
- Level 3
  - 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
  - 310 - Herbaceous Openland
  - 500 - Water

1 **310**-G0
2 **4238**-MC5
3 **4319**-UM6
4 **4134**-A6
5 **4234**-F5
6 **4319**-UM5
7 **4319**-UM6
8 **4319**-UM6
9 **4130**-A6
10 **4199**-MD9
11 **4137**-A6
12 **4191**-MD5
13 **4234**-F5
14 **4134**-A1
15 **4134**-A6
16 **6124**-Q6
17 **6128**-Q6
18 **4236**-C6
19 **6120**-C6
20 **6120**-C3
21 **6118**-E6
22 **500**-Z0
23 **4190**-MD6
24 **4236**-C5
25 **4239**-MC6
26 **500**-Z0

1 0.5 0 1 Miles

83°53'0"W 83°52'0"W 83°51'0"W 83°50'0"W 83°49'0"W
46°2'0"N 46°1'0"N 46°0'0"N 45°59'0"N

Table 1 – Total Acres by Cover Type and Age Class

Sault Ste. Marie Mgt. Unit **Compartment 011 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	46	0	0	0	0	0	0	0	107	0	0	0	0	0	**152**
Cedar	0	0	0	0	15	0	0	0	14	36	0	0	6	0	0	**71**
Herbaceous Openland	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**1**
Lowland Conifers	0	0	0	0	0	0	0	0	20	8	0	0	0	0	0	**28**
Lowland Deciduous	0	0	0	0	0	0	0	0	0	31	0	0	0	0	0	**31**
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	37	0	10	12	0	0	0	**60**
Upland Conifers	0	0	0	0	0	0	0	0	86	0	24	0	0	0	0	**110**
Upland Mixed Forest	0	0	0	0	0	0	0	0	0	88	33	0	0	0	0	**121**
Upland Spruce/Fir	0	0	0	0	0	0	0	0	59	92	0	0	0	0	0	**152**
Water	41	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**41**
Total	**42**	**46**	**0**	**0**	**15**	**0**	**0**	**0**	**216**	**363**	**66**	**12**	**6**	**0**	**0**	**766**

Table 2 – Proposed Treatment Summaries

Data updated before 2:00 PM

Sault Ste. Marie Mgt. Unit
Year of Entry 2012

Compartment 011
Total Compartment Acres: 766.3

Acres by Treatment Type

Commercial Harvest - 103	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	66	0	0	0	0	0	**66**
Mixed Upland Deciduous	0	12	10	0	0	0	**22**
Upland Mixed Forest	14	0	0	0	0	0	**14**
Total	**81**	**12**	**10**	**0**	**0**	**0**	**103**

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
7	**45011007-Cut**	14.4	4319 - Mixed Upland Forest	High Density Pole	89	Harvest	Clearcut with Reserves	Mixed Upland Forest	Cmpt. Review Proposal

Prescription Specs: Harvest all species except pine, oak, and cedar.

Other Comments: No survey needed.

Next Steps: Follow-up treatment with a regeneration survey as per the work instructions. Regeneration of present species acceptable.

10	**45011010-Cut**	12.4	4199 - Other Mixed Upland Deciduous	High Density Log	100	Harvest	Single Tree Selection	Other Mixed Upland Deciduous	Cmpt. Review Proposal

Prescription Specs: Mark to 80 Basal Area, do not mark oak.

Other Comments:

Next Steps: Follow-up treatment with a regeneration survey as per the work instructions. Regeneration of present species acceptable.

11	**45011011-Cut**	66.2	4137 - Aspen, Birch	High Density Pole	82	Harvest	Clearcut with Reserves	Aspen, Birch	Cmpt. Review Proposal

Prescription Specs: Harvest all species except oak, pine, cedar, and any yellow birch or hemlock.

Other Comments: No survey needed.

Next Steps: Follow-up treatment with a regeneration survey as per the work instructions. Regeneration of present speices acceptable.

23	**45011023-Cut**	10.0	4190 - Mixed Upland Deciduous with Cedar	High Density Pole	90	Harvest	Seed Tree with Reserves	Mixed Upland Deciduous with Cedar	Cmpt. Review Proposal

Prescription Specs: Harvest all species except oak and cedar.

Other Comments: No survey needed. Discuss other options at pre-review to promote oak and discourage balsam and aspen.

Next Steps: Follow-up treatment with a regeneration survey as per the work instructions. Regeneration of oak is desired, but other species present will be acceptable.

Total Treatment Acreage Proposed: **103.0**

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**

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
2	42380 - Non Pine Upland Conifer, Mixed Deciduous	Medium Density Pole	23.8	90		Un-productive, brushy, mostly spruce
3	4319 - Mixed Upland Forest	High Density Pole	21.7	80		Some of it may be 80 but a low quality site.
4	4134 - Aspen, Spruce/Fir	High Density Pole	22.2	80		Very similar to 3 but smaller diameter, non productive area
5	42340 - Upland Spruce/Fir	Medium Density Pole	59.5	74		Unproductive area with brush, similar 6, rocky
6	4319 - Mixed Upland Forest	Medium Density Pole	52.1	82		Sparse, similar to 6 but more aspen, rocky ground
7	4319 - Mixed Upland Forest	High Density Pole	14.4	89		Thick fir overtoped by mature aspen
8	4319 - Mixed Upland Forest	High Density Pole	32.6	93		Great Lakes shoreline - Potagannissing Bay
9	4130 - Aspen	High Density Pole	5.7	80		Nice aspen stand bordering consevancy land, leave for now,
10	4199 - Other Mixed Upland Deciduous	High Density Log	12.4	100	111-140	Access from private road to the east, awesome looking stand, big old trees.
11	4137 - Aspen, Birch	High Density Pole	66.2	82		Mature and ready for treatmernt.
12	4191 - Mixed Upland Deciduous with Conifer	Medium Density Pole	37.3	74		Almost like 12 but more birch and a lot more open.
13	42340 - Upland Spruce/Fir	Medium Density Pole	92.2	80		Some trees look 80 but overall a non-productive site, rocky, almost Alvar-ish looking, just not as open.
14	4134 - Aspen, Spruce/Fir	Low Density Sapling	45.6	5		Full regeneration, very little open space, residual pole cedar < 2%
15	4134 - Aspen, Spruce/Fir	High Density Pole	12.5	83		
16	6124 - Lowland Spruce-Fir	High Density Pole	19.9	70		
17	6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	8.4	83		a horrid place to be in
18	42360 - Upland Cedar	High Density Pole	36.0	83		Was prescribed when stand 15 was cut but too much cedar.
19	6120 - Lowland Cedar	High Density Pole	5.9	115		A little higher ground than 21, not really swamp cedar

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
20	6120 - Lowland Cedar	High Density Sapling	14.7	30		Smaller diameter than 20
21	6118 - Lowland Deciduous with Cedar	High Density Pole	31.2	83		Has a little of everything, wet , looks like what couldn't be cut with stand 15.
23	4190 - Mixed Upland Deciduous with Cedar	High Density Pole	10.0	90		Was put up for a cut in 2003, lines are in, just need refreshing.
24	42360 - Upland Cedar	Medium Density Pole	13.9	75		Looks similar to 21 but higher and dryer,
25	42390 - Mixed Non-Pine Upland Conifers	High Density Pole	86.0	74		Not really upland but not wet, borders M-134.

6 – Nonforested Stands

Data updated before 2:00 PM

Compartment: 011
Year of Entry: 2012

Stand	Cover Type	Acres	Gen Cmts:
1	310 - Herbaceous Openland	1.1	
22	50 - Water	5.8	
26	50 - Water	35.3	

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	Great Lakes Islands	Great Lakes Islands provide significant habitat for numerous species, including many rare plants and animals, several of which are endemic or largely restricted to the Great Lakes region. Due to their isolation, islands provide good examples of many Great Lakes-associated natural communities and ecosystems, and thus have potential to provide insights for understanding the consequences of human disturbance on the increasingly fragmented ecosystems of the mainland.