Compartment Review Presentation

Sault Ste. Marie Forest Management Unit

Compartment 45167
Entry Year 2017
Acreage: 1,951
County Mackinac
Management Area: Mackinac Mix

Revision Date: 2015-08-07

Stand Examiner: Matt Edison

Legal Description:

T44N-R9W Sections 12, 13, & 24, Garfield Township

Identified Planning Goals:

The compartment is located just south of the Luce/Mackinac County line in the Arsenic City area along Borgstrom Road. The northern upland areas of this compartment are included in the Graymont LTA. The lone exception is a small stand of pole sized mixed maple that will be select cut. The southern part of the compartment contains a large bog complex.

Soil and topography:

This area ranges from low level bogs and swamp conifer to ridges of spruce and pines scattered throughout the bog complex. The bog type is composed of Dawson and Loxley peats. The swamp conifer is composed of Markey and Carbondale mucks. Level to undulating areas consist of Spot-Finch complex, with higher rolling terrain composed of Paquin-Finch sands; Longrie-Battydoe, stony, complex; and Battydoe, stony-Wallace complex. The ridges along the Hemlock Ridge Road are Finch-Dawson-Pullup complex, and Pullup fine sand.

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

This compartment is comprised of all state land, and is totally surrounded by state land. Note that a large portion of the northern part of the compartment is within the Graymont LTA.

Unique Natural Features:

There is a potential for rare threatened or endangered plant and animal species within the compartment. Stands to be managed will be checked for species of concern. Management will be modified per management guidelines for that species if species are found within those stands or would be affected by treatment of the stands.

Archeological, Historical, and Cultural Features:

None noted.

Special Management Designations or Considerations:

Burning of the large Blueberry Bog has been a continuing ambition. Fiborn Quarry, caves and other karst features lie to the northwest.

Watershed and Fisheries Considerations:

Poor (north) to Good (south)
Fisheries Concerns: The northern portion of the compartment lies in the Eastern Lake Superior Management Unit and contains Nelson and Finn lakes. Both of these lakes are subject to drought conditions and have been close to dry in recent years. Fishing is nominal at best with the activity primarily directed to waterfowl hunting. The southern portion of the compartment drains to the Black River which flows to Northern Lake Michigan. The Black River in the segment is a designated trout stream. This river receives a good steelhead run and is a brook trout fishery through the remainder of trout season. Using the priority stream buffer of 300 feet should be adhered to. This is standard BMP practice for a priority trout stream.

Wildlife Habitat Considerations:

This compartment lies within the Mackinac Mix Management Area (MA). Featured species in the MA are black bear, pileated woodpecker, ruffed grouse, snowshoe hare, and white-tailed deer. This is a relatively wet compartment composed of mixed forest, lowland brush, lowland conifer, with some scattered hardwood and aspen. While the species composition within the lowlands appears to be similar to that found in pre-settlement times, upland forest cover has changed somewhat with a scattered aspen component. Pre-settlement forest cover likely consisted of a white pine and hemlock mix with red pine and jack pine on the drier sites. In the low areas, tamarack, spruce and cedar appeared to be dominant. The compartment contains muskeg, rich conifer swamp, poor conifer swamp, and shrub thicket natural community types, and all are associated in a wetland complex.

Little treatment is prescribed for forested stands in this compartment as most of the compartment is difficult to access. The mixed forest habitat and wetlands provide habitat for snowshoe hare, black bear, pileated woodpecker, and wetland species. Wetland habitats, including the large bog, will remain in-tact to maintain that habitat. Northern hardwoods and other nearby stand types in the north end of the compartment support hawks, bear, deer, and other species.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of lacustrine sand and gravel, peat, and muck. There is insufficient data to determine the glacial drift thickness. The Silurian Manistique and Burnt Bluff groups subcrop below the glacial drift. The Burnt Bluff is/was quarried for stone/limestone at Hendricks Quarry just to the north (Section 1, T44N R9W and Section 6, T44N R8W) and has been leased in the past. The quarry area, including the bulk of Section 12, is part of a complex land transaction with Graymont. Gravel pits are not located in the compartment and potential may be limited. A gravel pit is located two miles away in Section 21, T44N R8W. There is no current economic oil and gas production in the UP.

Vehicle Access:

Access is via Cranberry Lake Road from the north and south, Hemlock Ridge Road from the east, or McCleod Truck trail from the northwest. Cranberry Lake Road is a sand/gravel DNR road in good condition and leads north out to Borgstrom Road (Paved, county) or south out to Paved Mackinac County Road H-40 (Hiawatha Trail). Hemlock Ridge Road is a good dirt road (DNR) entering the compartment from the east. All portions of Hemlock Ridge Road and McCleod Truck Trail and all of Cranberry Lake Road south of McCleod Truck Trail are groomed snowmobile trail.

Survey Needs:

None needed.

Recreational Facilities and Opportunities:

The Cranberry Lake Road, Hemlock Ridge Road and McCleod Truck Trail are used as groomed snowmobile trails in the winter. The ORV trail winds along the Hemlock Ridge Road, and up and down the ridges. Excellent wildlife viewing area. Hunting and trapping opportunities exist as well.

Fire Protection:

This is a historically low wildfire area. However, there is very limited road access into the interior portions of this compartment. Any fire in the Cranberry Lake Bog and ridge complex could prove to be a challenge both in access for initial attack and extended mop-up due to the heavy loading of organic matter in the areas with heavy soils. Nelson and Finn Lakes provide the best sources of water.

Additional Compartment Information:

The following reports from the Inventory are attached:

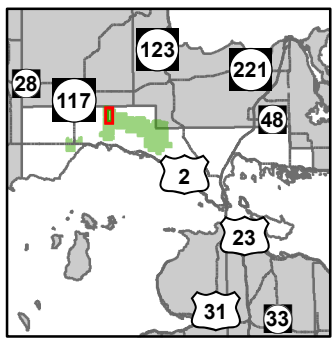
- **Total Acres by Cover Type and Age Class**
- **Cover Type by Harvest Method**
- **Proposed Treatments – No Limiting Factors**
- **Proposed Treatments – With Limiting Factors**
- **Stand Details (Forested and Nonforested)**
- **Dedicated and Proposed Special Conservation Areas**
- **Site Condition Details**

The following information is displayed, where pertinent, on the attached compartment maps:

- **Base feature information, stand boundaries, cover types, and numbers**
- **Proposed treatments**
- **Site condition boundaries**
- **Details on the road access system**

Cover Type & Treatments

Compartment: 167
T44N,R09W, Sec: 12, 13, 24
County: Mackinac
Unit: Sault Ste. Marie
Mgmt Area: Mackinac Mix
YOE: 2017
Acres: 1951 GIS Calculated
Examiner: Matt Edison
Map Revised: 8/10/2015
Map Phase: Review



N

- Remonumented Section Corners
- Field Grade GPS Corners
- Miris Corners
- County Paved Roads
- Paved Roads
- County Gravel Roads
- Gravel Roads
- Poor Dirt Roads
- Trail (Non-Recreation)
- Boating Access Site
- Motorcycle Trails (DNR License)
- Snowmobile Trails
- Rivers
- Lakes
- Treatments with Site Conditions

Treatments

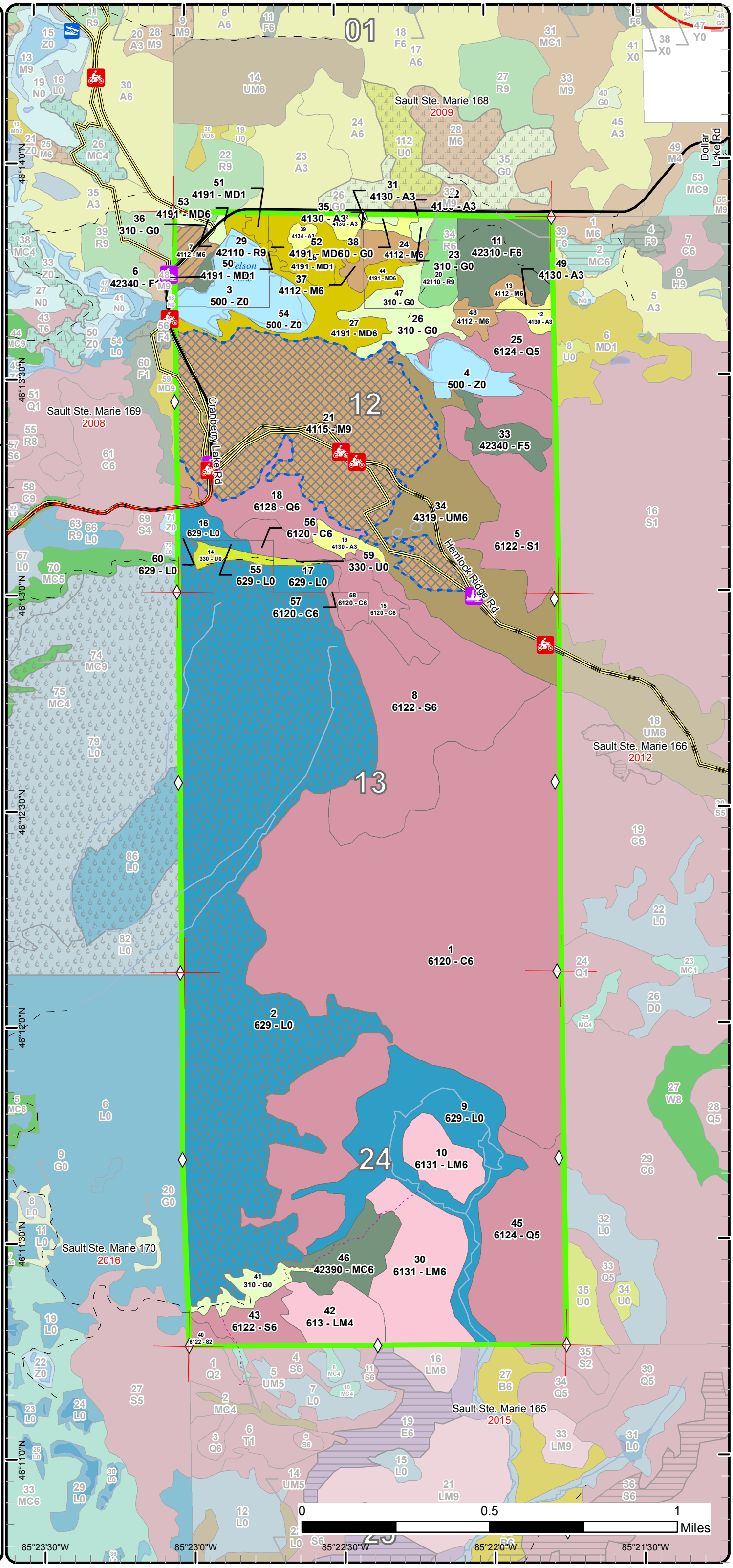
- Selection (Group, Single Tree)
- Prescribed Burn
- Thinning (Crown, Low, Systematic)

Forest Covertype

- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 423 - Other Upland Conifers
- 430 - Upland Mixed Fores
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest

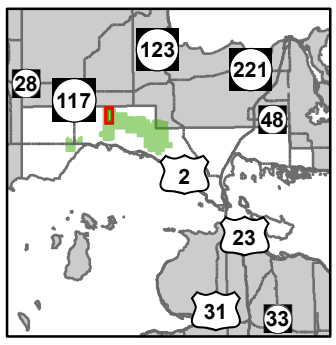
Non-Forest Covertype

- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 500 - Water
- 629 - Mixed non-forested wetland



Stand Boundary Map

Compartment: 167
T44N,R09W, Sec: 12, 13, 24
County: Mackinac
Unit: Sault Ste. Marie
Mgmt Area: Mackinac Mix
YOE: 2017
Acres: 1951 GIS Calculated
Examiner: Matt Edison
Map Revised: 8/10/2015
Map Phase: Review



N

- Remonumented Section Corners
- Field Grade GPS Corners
- Miris Corners
- County Paved Roads
- Paved Roads
- County Gravel Roads
- Gravel Roads
- Poor Dirt Roads
- Trail (Non-Recreation)
- Boating Access Site
- Motorcycle Trails (DNR License)
- Snowmobile Trails
- Rivers
- Stand Boundaries

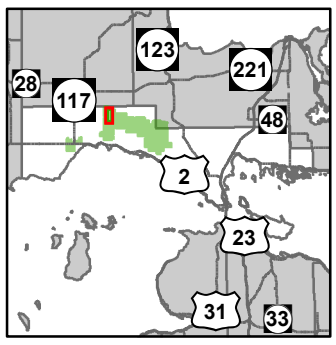
Forest Covertype
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 423 - Other Upland Conifers
- 430 - Upland Mixed Fores
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest

Non-Forest Covertype
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 500 - Water
- 629 - Mixed non-forested wetland

01
12
13
24
Cranberry Lake Rd
Hemlock Ridge Rd
Dollar Lake Rd
46°14'0"N
46°13'30"N
46°12'30"N
46°12'0"N
85°23'30"W
85°23'0"W
85°22'30"W
85°22'0"W
85°21'30"W
0
0.5
1
Miles

Special Conservation Areas & Site Conditions Map

Compartment: 167
T44N,R09W, Sec: 12, 13, 24
County: Mackinac
Unit: Sault Ste. Marie
Mgmt Area: Mackinac Mix
YOE: 2017
Acres: 1951 GIS Calculated
Examiner: Matt Edison
Map Revised: 8/10/2015
Map Phase: Review



N

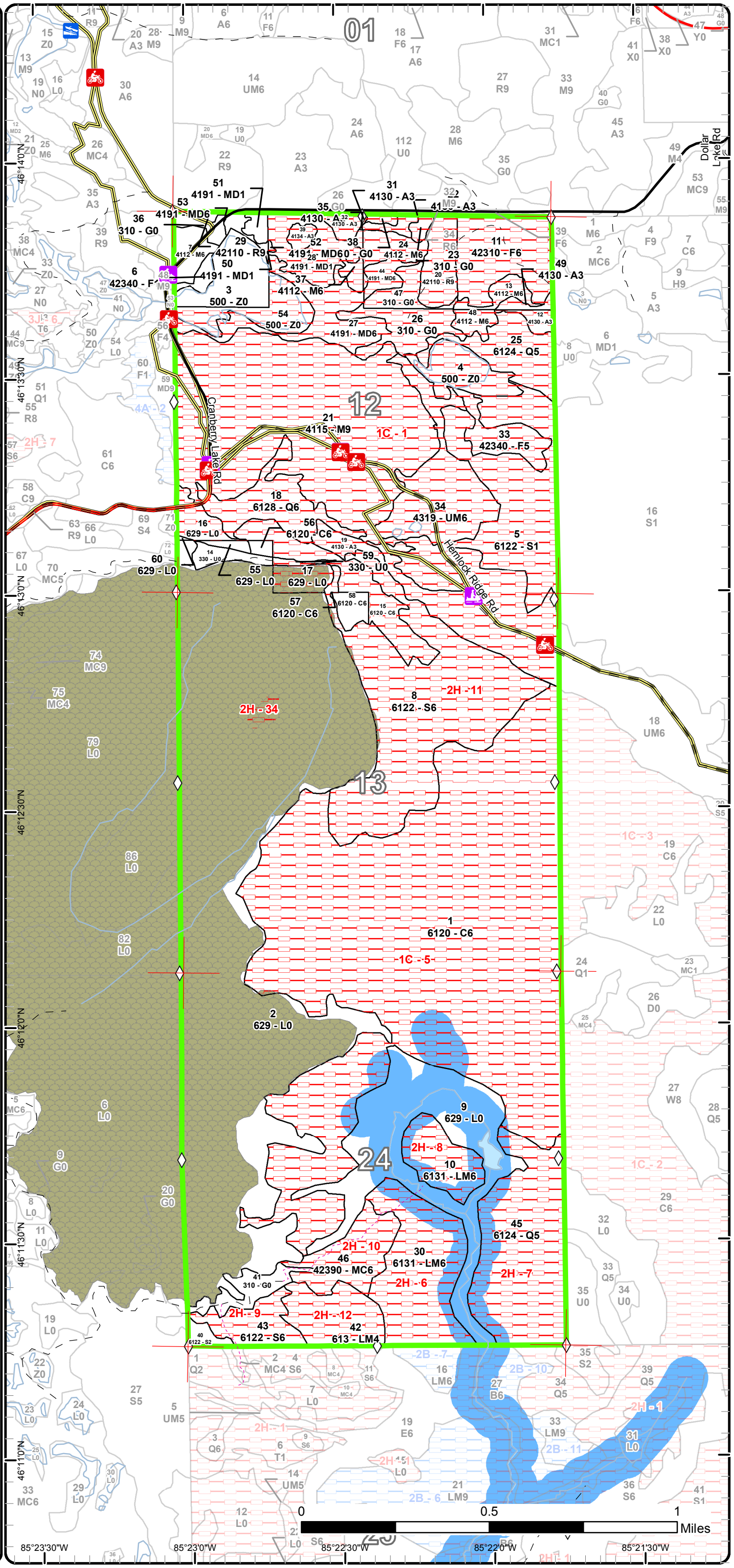
DEPARTMENT OF NATURAL RESOURCES · DNR · MICHIGAN

- Remonumented Section Corners
- Field Grade GPS Corners
- Miris Corners
- County Paved Roads
- Paved Roads
- County Gravel Roads
- Gravel Roads
- Poor Dirt Roads
- Trail (Non-Recreation)
- Boating Access Site
- Motorcycle Trails (DNR License)
- Snowmobile Trails
- Rivers
- Stand Boundaries

Recommendation
- SCA Removal

Site Condition
- Unavailable

Unavailable Factors
- 1C: Other dept or div proc/practices
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- Special Conservation Areas
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer
- Potential Old Growth



Report 1 – Total Acres by Cover Type and Age Class

Sault Ste. Marie Mgt. Unit **Compartment 167 Year of Entry 2017**

Matt Edison : Examiner

Age Class

	Non-Forest	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+	Uneven-Aged	Total
Aspen	0	8	6	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**21**
Cedar	0	0	0	0	0	0	0	0	0	0	0	0	31	443	0	0	0	0	**474**
Herbaceous Openland	40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**40**
Low-Density Trees	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**6**
Lowland Conifers	0	0	0	0	0	22	101	0	0	0	0	0	0	0	0	0	0	0	**123**
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	0	23	0	0	20	53	0	0	0	**96**
Lowland Shrub	499	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**499**
Lowland Spruce/Fir	0	0	0	0	0	62	0	0	0	117	19	0	0	0	0	0	0	0	**198**
Mixed Upland Deciduous	0	0	0	20	0	0	0	0	0	0	0	0	0	0	0	0	0	32	**52**
Northern Hardwood	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	214	**214**
Red Pine	0	0	0	0	0	0	13	1	0	0	0	0	0	0	0	0	0	0	**14**
Upland Conifers	0	0	0	0	0	0	0	0	0	0	23	0	0	0	0	0	0	0	**23**
Upland Mixed Forest	0	0	0	0	0	0	0	0	0	0	89	0	0	0	0	0	0	0	**89**
Upland Spruce/Fir	0	0	0	0	3	0	33	13	0	0	0	0	0	0	0	0	0	0	**49**
Water	53	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**53**
Total	**598**	**8**	**6**	**27**	**3**	**84**	**147**	**14**	**0**	**117**	**154**	**0**	**31**	**463**	**53**	**0**	**0**	**246**	**1951**

Report 2 – Treatment Summary

Sault Ste. Marie Mgt. Unit

Year of Entry: 2017

Acres of Harvest

Compartment 167

Total Compartment Acres: 1,951

Commercial Harvest - 8

Harvests with Site Condition - 183

Next Step Harvest - 0

Habitat Cut - 0

Cover Type by Harvest Method

		Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Northern Hardwood		0	183	0	0	0	8	0	0	0	**191**
	Total	**0**	**183**	**0**	**0**	**0**	**8**	**0**	**0**	**0**	**191**

Proposed and Next Step Treatments by Method

		Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current		191	0	0	0	401	0	0	0	0	**592**
Next Step		0	0	0	0	0	0	584	0	0	**584**
	Total	**191**	**0**	**0**	**0**	**401**	**0**	**584**	**0**	**0**	**1175**

Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
2	45167002-Burn	400.7	629 - Mixed non-forested wetland	Nonstocked		Unspecified	Burn	Lowland	622 - Lowland Shrub		Proposal

Habitat Cut: Yes **Site Condition:**

Prescription Specs: Prescribed burn periodically to maintain/enhance bog features following the prescribed burn plan for the bog currently in place. Recommended to burn in thirds. This stand would include the northern third and most of the middle third (north of the dike).

Next Step Treatments:

Acceptable Regen:

Other Comment: Part of the Blueberry Bog that has been burned periodically to help produce blueberries. You can see the burn from 2000 viewing the UP Landsat (in a couple different forms). This area has been burned (or proposed to be burned) for many years. A wildfire burned the entire bog in 1955. By 1961 a plan was in place to burn the bog (in 3 different pieces, every 2 years) to maintain blueberries. 100 acres were burned with limited success in 1963. Wildfires in 1966 (E1/2 north of the dike) provided glimpses into how hot a burn should be. The dike was built in 1968. FTP's to burn the bog in thirds by a rotating schedule have been in place in 1961, 1973, 1988 and 1998. Peziometers were installed in 1998 to monitor the water table. This has helped in determining the right time of year to burn. The middle portion of the bog (305 acres north of the dike) was burned in October 2000. Old next step comments:

Proposed Start Date: 10/1 /2016

Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
7	45167007-Cut	7.8	4112 - Maple, Beech, Cherry Association	Poletimber Well	61	111-140	Harvest	Crown Thinning	411 - Northern Hardwood	Uneven-Aged	Proposal

Habitat Cut: No **Site Condition:**

Prescription Specs: Thin stand to basal are of approximately 80-90.

Next Step Treatments:

Acceptable Regen:

Other Comment: A lot of red maple poles. Small area and size will make for a decent firewood type sale Old next step comments:

Proposed Start Date: 10/1 /2016

Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
21	45167021-Cut	183.0	4115 - Y.Birch, Hemlock NH	Sawtimber Well	71	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	Proposal

Habitat Cut: No **Site Condition: Other Dept./Div. Processes**

Prescription Specs: Thin basal area to approximately 80ba. Leave some large wolfy trees, and any hemlock, oak or other under-represented species. Watch for raptor nests, and buffer appropriately. Encourage hemlock where present.

Next Step Treatments:

Acceptable Regen: Ayy mix of maple, cherry, paper birch, yellow birch, hemlock, aspen, balsam fir is acceptable.

Other Comment: Old next step comments:

Proposed Start Date: 10/7 /2015

Total Treatment Acreage Proposed: 591.6

Report 5 – Site Conditions

Sault Ste. Marie Mgt. Unit

Matt Edison : Examiner

Compartment: 167

Year of Entry: 2017

Dominant Site Conditions

	1C	2H
Aspen	20	
Cedar	468	
Herbaceous Openland	26	
Low-Density Trees	1	
Lowland Conifers	48	75
Lowland Mixed Forest		96
Lowland Shrub	14	3
Lowland Spruce/Fir	62	133
Mixed Upland Deciduous	47	
Northern Hardwood	206	
Red Pine	13	
Upland Conifers		23
Upland Mixed Forest	89	
Upland Spruce/Fir	46	
Water	33	
Total Forested Acres	1,073	330
Relative Percent		

**Due to limitations in the current Site Conditions Analysis tool, all nonforested acres are considered available. Future development will enable analysis of nonforested types.*

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	**Unavailable**	**1C: Other dept or div proc/practices**	630	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Graymont LTA						
5	**Unavailable**	**1C: Other dept or div proc/practices**	443	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						

6	**Unavailable**	**2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)**	53	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
7	**Unavailable**	**2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)**	75	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
8	**Unavailable**	**2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)**	20	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
9	**Unavailable**	**2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)**	16	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
10	**Unavailable**	**2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)**	23	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
11	**Unavailable**	**2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)**	117	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
	Comments: Possible Accessible portion is within Graymont LTA.						

Report 5 – Site Conditions

Sault Ste. Marie Mgt. Unit

Matt Edison : Examiner

Compartment: 167

Year of Entry: 2017

12	**Unavailable**	**2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)**	23	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
34	**Unavailable**	**2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)**	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 6 – 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.

SCA Name	SCA Category	Detail Type	Recommendation	Acres
Unspecified	Potential Old Growth		**SCA Removal**	1081

Comments

This area is already an ERA

Report 7 – EXISTING SPECIAL CONSERVATION AREA DETAILS

* This is a list of SCA's for this compartment along with a 1/4 mile buffer surrounding the compartment. Refer to the Special Conservation Area Map for locations of the below listed Conservation Areas.

ERA = Ecological Reference Area
HCVA = High Conservation Value Area
SCA = Special Conservation Area

Conservation Area	Type	Description
SCA	Cold Water Lake	A coldwater lake has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species to persist from year to year. Suitable conditions for coldwater fishes may occur in Michigan lakes if they are relatively deep, have substantial groundwater inflows, or are located in colder (northern) areas of the state. Such lakes are established by Director's action and designated as trout resources by Fisheries Order 200.
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	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in which the terrestrial ecosystem influences the aquatic ecosystem and vice-versa. Because of the unique conditions adjacent to lakes, streams and open water wetlands, riparian areas harbor a high diversity of plants and wildlife. Riparian communities are ecologically and socially significant in their effects on water quality and quantity, as well as aesthetics, habitat, bank stability, timber production, and their contribution to overall biodiversity.
ERA	Ecological Reference Areas	Ecological Reference Areas (ERAs) are high quality examples of natural communities that have been identified as Element Occurrences (EOs) by the Michigan Natural Features Inventory (MNFI) within the context of their natural community classification system. Element Occurrences with viability ranks of A (Excellent) or B (Good) and a Global (G) or State (S) element (rarity) ranking of endangered (1), threatened (2), or rare (3) serve as an initial base of ERAs. They may be located upon any ownership in the State. The system is comprised of individual or associations of natural community types that are managed for restoration and maintenance of natural ecological processes and values. The public may submit recommendations for lands as ERAs using the DNR Conservation Area Recommendation Form.

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	6120 - Lowland Cedar	Poletimber Well	443.1	125	Unspecified	Large cedar stand with a lot of variability. Some areas have some black spruce and birch mixed. There are trace tamarack also. Size is variable as well. Lots of tag alder where wetter and open.
5	6122 - Black Spruce	Sapling Poor	62.0	47	Unspecified	Wet Spruce bog.
6	42340 - Upland Spruce/Fir	Sapling Poor	2.9	30	Immature	Upland opening with some brush in it.
7	4112 - Maple, Beech, Cherry Association	Poletimber Well	7.8	61	111-140	Mixed hardwood pole stand.
8	6122 - Black Spruce	Poletimber Well	116.5	80	Unspecified	Large black spruce stand, very wet. Some scattered tamarack and pockets of cedar.
10	6131 - Hemlock, White Pine, Maple, Birch	Poletimber Well	19.6	120	141-170	Island surrounded by water/wetland. No access whatsoever.
11	42310 - Planted Spruce	Poletimber Well	33.2	54	141-170	Stand was row thinned last entry.
12	4130 - Aspen	Sapling Well	3.1	7	Immature	Stand was cut in 2008.
13	4112 - Maple, Beech, Cherry Association	Poletimber Well	5.3	66	81-110	Mixed hardwood stand. Was thinned last entry.
15	6120 - Lowland Cedar	Poletimber Well	24.5	110	Unspecified	Small dense cedar with some black spruce and tamarack around the fringe.
18	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	26.1	50	Unspecified	Nice transition stand between upland and lowland. If treating adjacent hardwood then leave this stand for future treatment consideration, per conversations with WLD.
19	4130 - Aspen	Sapling Well	5.8	13	Immature	Stand was cut in 2002.
20	42110 - Planted Red Pine	Sawtimber Well	13.2	54	141-170	Rp thinned in 2000
21	4115 - Y.Birch, Hemlock NH	Sawtimber Well	185.1	71	111-140	Large hardwood stand of variable quality. Overall it is pretty nice. Selct cut down to basala rea of 80-90.
22	4130 - Aspen	Sapling Well	2.7	7	Immature	Stand was cut in 2008
24	4112 - Maple, Beech, Cherry Association	Poletimber Well	8.1	65	81-110	Mixed hardwood stand on nice high ground. Was thinned last entry.

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
25	6124 - Lowland Spruce-Fir	Poletimber Medium	22.1	40	51-80	Variable stand with mostly low ground, but some upland opening as well. Total mix of lowland conifer and aspen, birch, hardwood.
27	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	24.0	51	81-110	Variable stand of highly mixed species. Ranges from high open areas to lower fringes of wetlands. Mostly maple/aspen/birch brush on opening areas and lowland conifers in lower areas.
28	4191 - Mixed Upland Deciduous with Conifer	Sapling Poor	17.4	25	Immature	Large grass opening with clumps of brush throughout.
29	42110 - Planted Red Pine	Sawtimber Well	1.0	62	111-140	Stand is small tip of large stand in adjacent compartment.
30	6131 - Hemlock, White Pine, Maple, Birch	Poletimber Well	53.2	138	141-170	Inaccessible area. Information is from previous inventory and adjacent compartment.
31	4130 - Aspen	Sapling Well	0.2	24	Immature	Aspen mix regeneration.
32	4130 - Aspen	Sapling Well	3.7	24	Immature	Aspen mix regeneration.
33	42340 - Upland Spruce/Fir	Poletimber Medium	12.8	60	Unspecified	Opening growing in with mixed conifer and some hardwood. Treat with adjacent stand 34 in future.
34	4319 - Mixed Upland Forest	Poletimber Well	89.3	94	Unspecified	
35	4130 - Aspen	Sapling Well	0.0	7	Immature	Stand was cut in 2008
37	4112 - Maple, Beech, Cherry Association	Poletimber Well	3.4	65	81-110	Mixed hardwood stand on nice high ground. Was thinned last entry.
39	4134 - Aspen, Spruce/Fir	Sapling Well	2.8	24	Immature	Aspen regeneration.
40	6122 - Black Spruce	Sapling Medium	3.4	98	Unspecified	small portion of large treed bog. Mix of black spruce and tamarack, sparse in places.
42	613 - Lowland Mixed Forest	Poletimber Poor	23.2	98	Unspecified	Patches of black spruce within bog.
43	6122 - Black Spruce	Poletimber Well	16.2	98	81-110	Wet black spruce with some tamarack and white pine.
44	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	5.0	51	81-110	Variable stand of highly mixed species. Ranges from high open areas to lower fringes of wetlands. Mostly maple/aspen/birch brush on opening areas and lowland conifers in lower areas.
45	6124 - Lowland Spruce-Fir	Poletimber Medium	74.7	58	Unspecified	No Access. Mixed stand of lowland.

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
46	42390 - Mixed Non-Pine Upland Conifers	Poletimber Well	23.4	99	Unspecified	Stand is mix of upland and lowland. There are pockets of bog with black spruce within and surrounding them. Sharp ridge has the red pine on it and some birch. Stand gradiates out into surrounding bog and thee is cedar in the transition area.
48	4112 - Maple, Beech, Cherry Association	Poletimber Well	4.4	66	Unspecified	Mixed hardwood stand. Was thinned last entry.
49	4130 - Aspen	Sapling Well	2.3	7	Immature	Stand was cut in 2008.
50	4191 - Mixed Upland Deciduous with Conifer	Sapling Poor	0.0	25	Immature	Large grass opening with clumps of brush throughout.
51	4191 - Mixed Upland Deciduous with Conifer	Sapling Poor	2.7	25	Immature	Large grass opening with clumps of brush throughout.
52	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	0.2	51	81-110	Variable stand of highly mixed species. Ranges from high open areas to lower fringes of wetlands. Mostly maple/aspen/birch brush on opening areas and lowland conifers in lower areas.
53	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	2.4	51	81-110	Variable stand of highly mixed species. Ranges from high open areas to lower fringes of wetlands. Mostly maple/aspen/birch brush on opening areas and lowland conifers in lower areas.
56	6120 - Lowland Cedar	Poletimber Well	1.5	110	Unspecified	Small dense cedar with some black spruce and tamarack around the fringe.
57	6120 - Lowland Cedar	Poletimber Well	0.0	110	Unspecified	Small dense cedar with some black spruce and tamarack around the fringe.
58	6120 - Lowland Cedar	Poletimber Well	4.8	110	Unspecified	Small dense cedar with some black spruce and tamarack around the fringe.

Stand	Cover Type	Acres	Managed Site	General Comments:
2	629 - Mixed non-forested wetland	401.3	No	
3	500 - Water	19.8	No	
4	500 - Water	16.6	No	
9	629 - Mixed non-forested wetland	82.0	No	
14	330 - Low-Density Trees	5.0	No	
16	629 - Mixed non-forested wetland	6.3	No	
17	629 - Mixed non-forested wetland	7.3	No	
23	310 - Herbaceous Openland	1.9	No	
26	310 - Herbaceous Openland	14.9	No	
36	310 - Herbaceous Openland	4.0	No	
38	310 - Herbaceous Openland	1.3	No	
41	310 - Herbaceous Openland	10.4	No	
47	310 - Herbaceous Openland	7.4	No	
54	500 - Water	16.2	No	
55	629 - Mixed non-forested wetland	1.6	No	
59	330 - Low-Density Trees	1.3	No	
60	629 - Mixed non-forested wetland	0.2	No	