



Compartment Review Presentation

Sault Ste. Marie Forest Management Unit

Compartment 45133

Entry Year 2019

Acreage: 1,854

County Mackinac

Management Area: Sage Truck Trail

Revision Date: 2017-07-11

Stand Examiner: Matt Edison

Legal Description:

T44N-R7W Sections 8, 9, 16 & 17; Hendricks Township

Identified Planning Goals:

During this entry period timber management will be minimal within this compartment. There will be selection harvest of northern hardwood stands. Overall the compartment contains a high percentage of lowland conifer and mixed upland/lowland conifer and aspen. The accessible stands have been harvested in the past are now nearing the point where further treatment and regeneration could be considered in the next entry and beyond.

Soil and topography:

Topography is gently rolling upland divided by the West and South branches of the Hendrie River. There is lowland on the north and south edges of the compartment. Soils within the compartment include Wallace sand, Markey-Spot-Finch complex, Finch-Dawson-Pullup complex, Paquin –Finch sands, and Allendale-Wakely complex. Soil is thin in areas and Karst features are present.

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

There are three 40 acre private holdings within the inner area of the compartment. Section 16 is adjacent to the compartment in the Southeast and is comprised entirely of privately owned land (Michigan Karst Conservancy) except for one 40 acre parcel that is state owned. The MKC land has many trails and is used recreationally for hiking, caving, etc. Sections 8, 9, and 17 are all surrounded by state ownership. There is a management easement through private land in sections 8 & 9 allowing access to state land.

Unique Natural Features:

Per MNFI, there is a potential for rare, threatened or endangered plant and animal species and natural communities within this compartment. Stands to be managed will be checked for species of concern. Management will be modified if species are found within those stands per management guidelines for that species.

Archeological, Historical, and Cultural Features:

Michigan Karst Conservancy owns land in section 16. Caves found in section 16.

Special Management Designations or Considerations:

Stands 50 and 70 are under special use permit to the Michigan Karst Society. The most extensive limestone cave system in Michigan is in section 16.

Watershed and Fisheries Considerations:

Fisheries Values: Excellent

Fisheries Concerns: This compartment contains the South and West Branch Hendrie Rivers. Both are designated trout streams. Trout are present in these streams and any further beaver activity should not be promoted. Buffers should be applied in treatment stands with a large aspen component and proposed clear-cuts. Streams appear to already be factor limited and buffered in preparation for future treatments.

Wildlife Habitat Considerations:

Compartment 133 is part of the Sage Truck Trail Management Area where featured wildlife species include American marten, black bear, ruffed grouse, snowshoe hare, and white-tailed deer. It contains a mix of cover types ranging from northern hardwoods and upland mixed stands to lowland conifers including black spruce and cedar types. Wildlife objectives include maintaining deer wintering complex, diversifying northern hardwoods and mixed stands to benefit marten, hawks, and bear, and maintaining lowland cover for a variety of wildlife including deer and bear. Portions of this compartment are in deer wintering complex, and treatments in stands in wintering complex will be conducted during the winter months (Dec. 1 - Mar. 31) so tops are available as browse to wintering deer. Hemlock will be retained, and cherry and other mast-producing species will be encouraged to provide food sources for bear and other species. Rare species and their habitats will be protected.

Mineral Resource and Development Concerns and/or Restrictions

Sections 8-9 & 16-17, T44N R7W, Mackinac Co.

There is some sand and gravel production in the area but potential within the compartment appears to be limited. Potential for high-purity (high-calcium) limestone within the compartment is very good. The former Fiborn Quarry is located adjacent to the compartment and Graymont's proposed underground mine is located a few miles to the southwest. There is no current economic oil and gas production in the UP and there is no known metallic mineral potential in this region.

Vehicle Access:

Vehicle access is fair in this compartment. Norton Camp road is a good quality dirt road and is the main access running through the compartment. There are numerous two tracks and old existing logging roads that reach well into each section of the compartment. The areas in section 9 east of Hendrie River and north of Norton Camp road has very limited access due to the lowland type.

Survey Needs:

None needed for treatments this entry.

Recreational Facilities and Opportunities:

All types of hunting is pursued in this compartment. The caves in section 16 offer unique recreational opportunities. Fishing is available in the branches of the Hendrie River.

Fire Protection:

Fire activity within this compartment has been minimal historically. However, with areas of lowland conifer and limited access, there is potential for mop-up of intense fires if one occurs. The Hendrie River branches provide a readily available water source if needed.

Additional Compartment Information:

The following reports from the Inventory are attached:

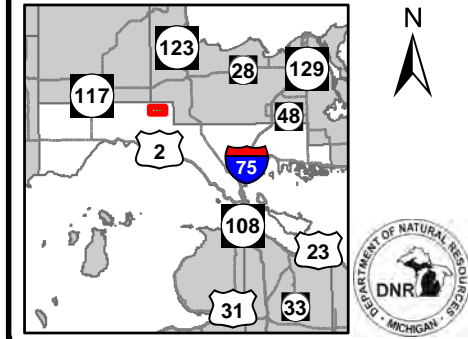
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

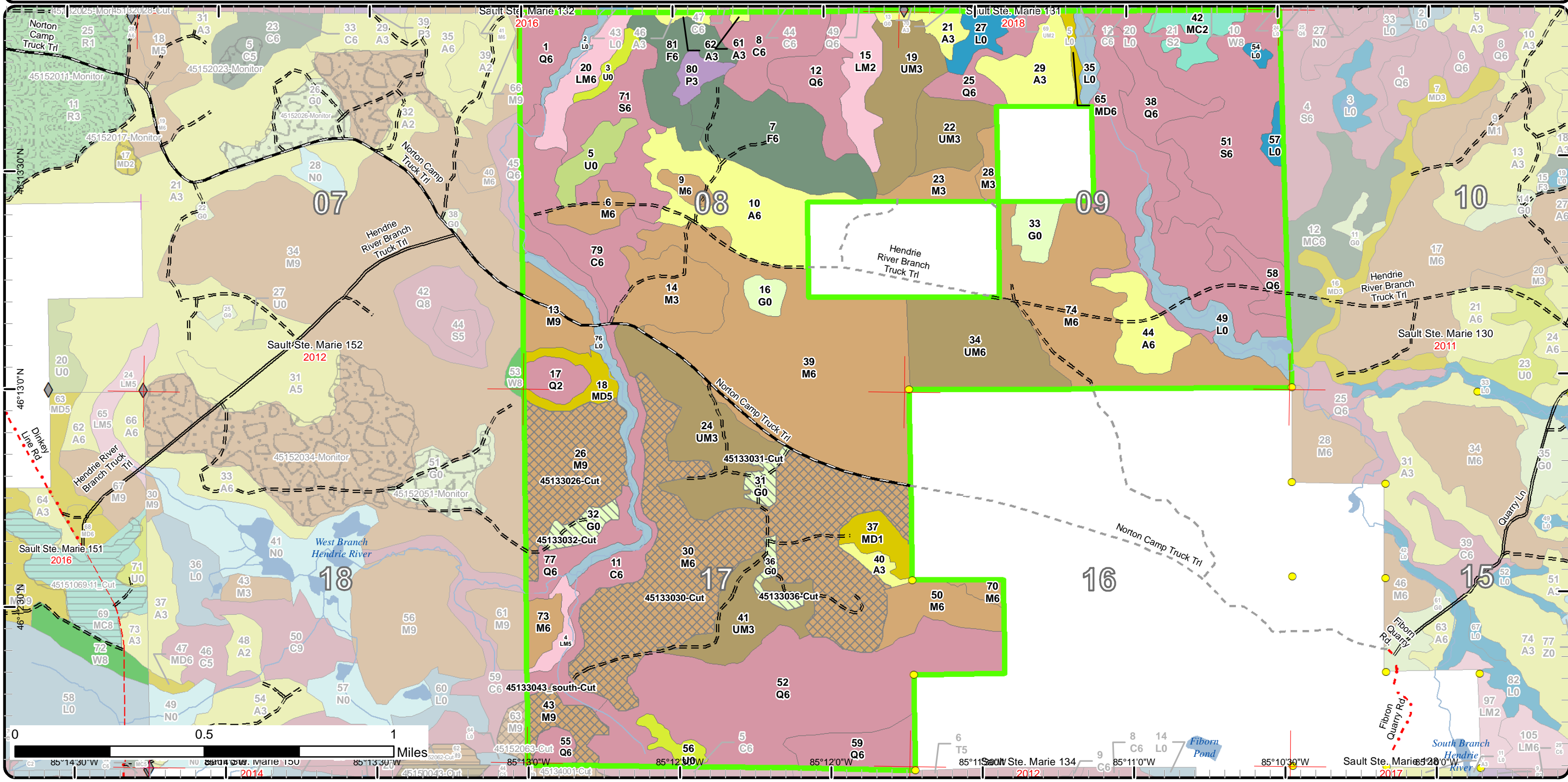
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 133
 T44N, R07W, Sec: 8, 9, 16, 17
 County: Mackinac
 Unit: Sault Ste. Marie
 Mgmt Area: Sage Truck Trail
 YOE: 2019
 Acres: 1,854 GIS Calculated
 Examiner: Matt Edison
 Map Revised: 7/30/2018
 Map Phase: Post Review

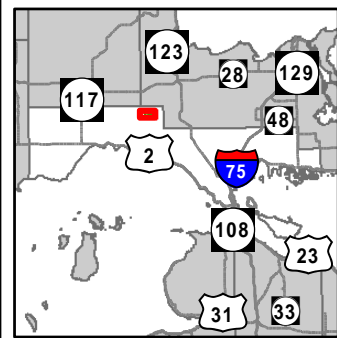


- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- ◆ Field Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Lake/Pond
- Perennial River
- Lakes and Rivers All
- Compartment Boundary
- Other Harvest - See Comments
- Selection (Group, Single Tree)
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 330 - Low Density Trees
- 622 - Lowland Shrub
- 629 - Mixed non-forested wetland
- Lakes

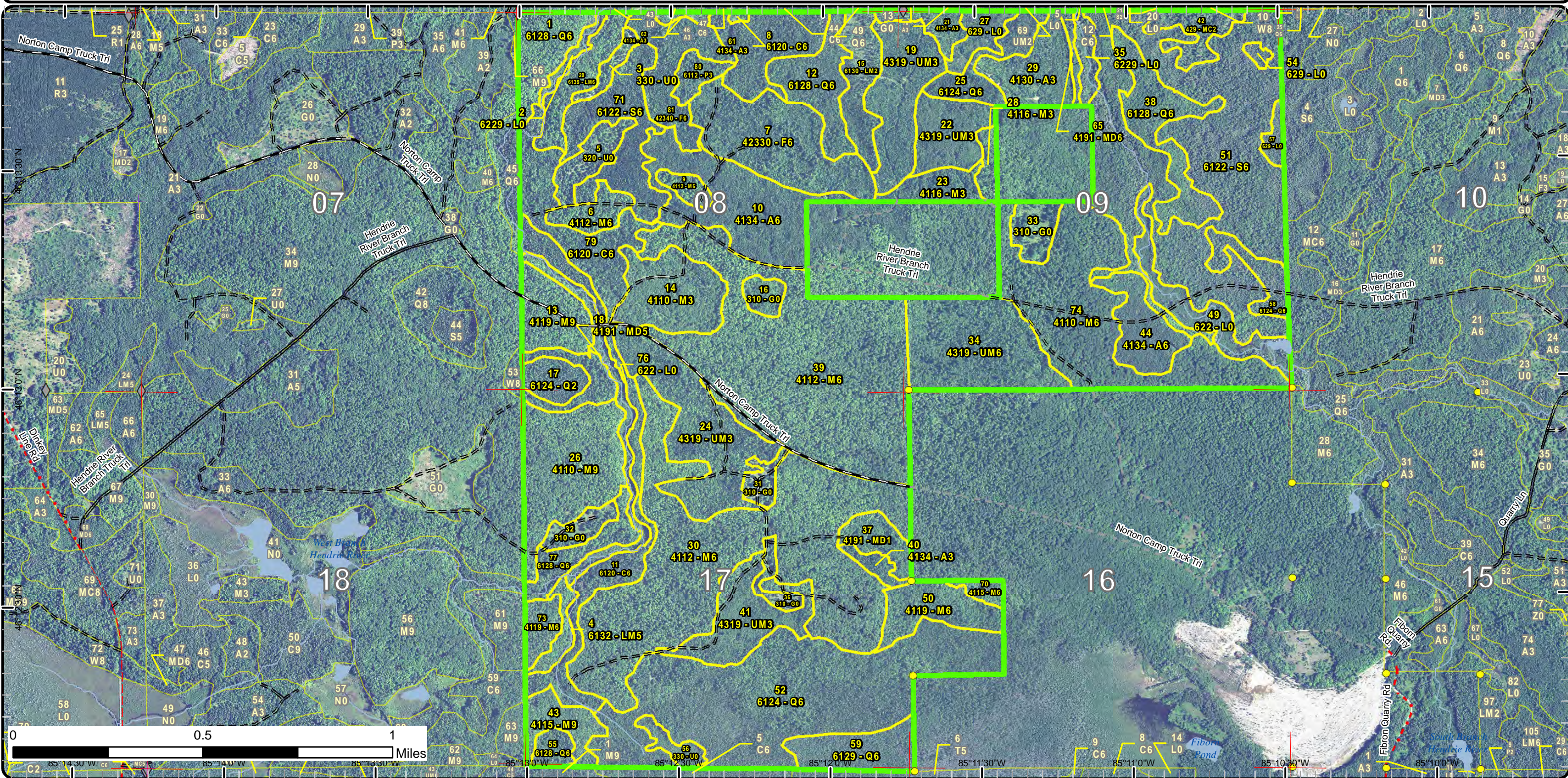


Stand Boundary Map

Compartment: 133
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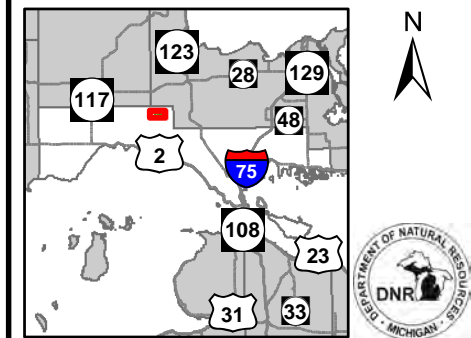


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- Compartment Boundary
- Stand Boundaries
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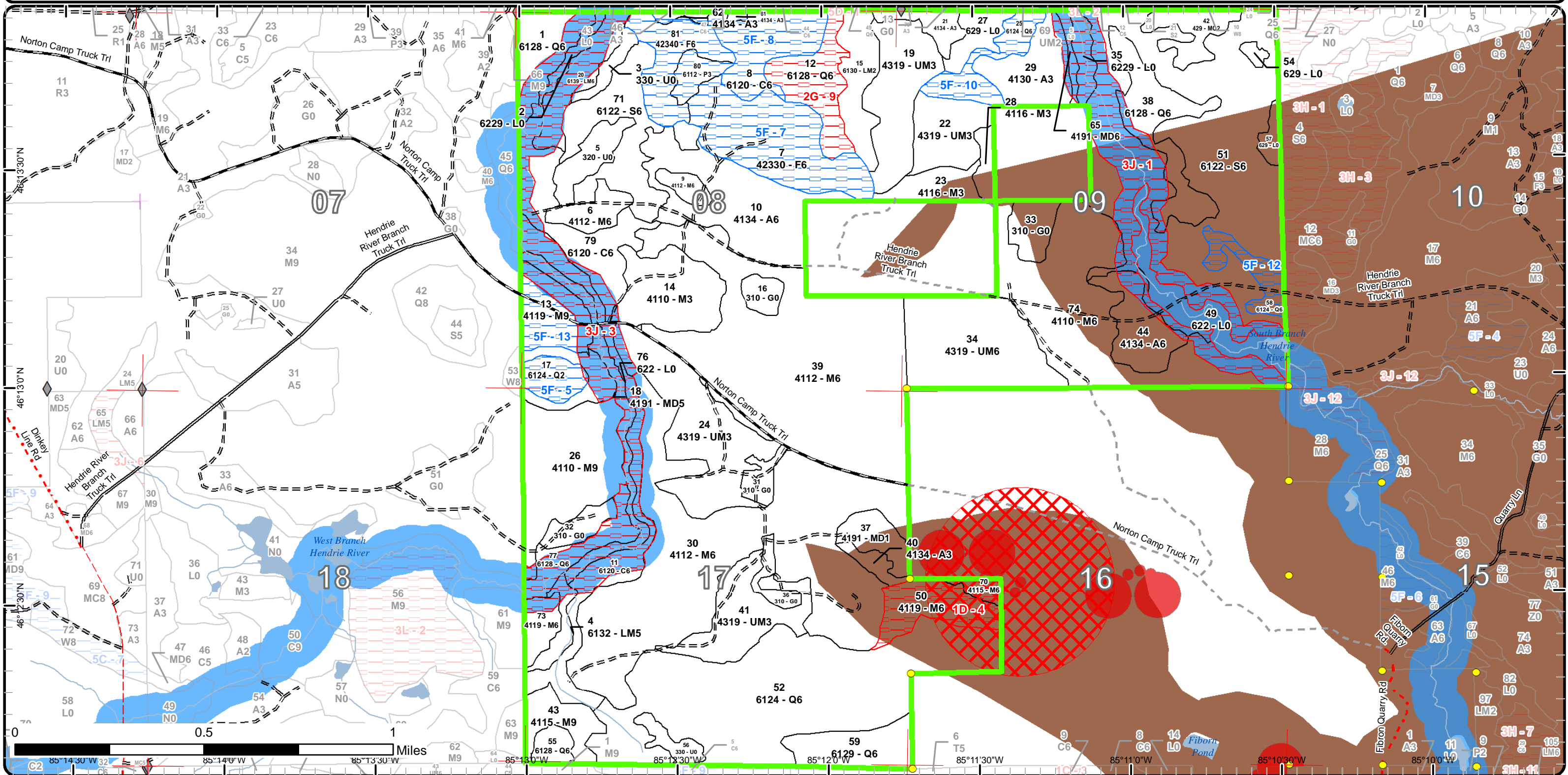


Special Conservation Areas & Site Conditions Map

Compartment: 133
 T44N, R07W, Sec: 8, 9, 16, 17
 County: Mackinac
 Unit: Sault Ste. Marie
 Mgmt Area: Sage Truck Trail
 YOE: 2019
 Acres: 1,854 GIS Calculated
 Examiner: Matt Edison
 Map Revised: 7/30/2018
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- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Lake/Pond
- Perennial River
- Lakes and Rivers All
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 1D: Interest Group / Neighbor
- 2G: Too wet (sensitive soils, does not include access issues)
- 3J: Water quality / BMPs (stream, river, or lake)
- Stand Boundaries
- Ecological Reference Areas
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer
- Northern Long-Eared Bat Hibernacula Buffers
- Deer Winter Range



Report 1 – Total Acres by Cover Type and Age Class



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 | 0 | 35 | 5 | 75 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 115 |
| Cedar | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 38 | 64 | 0 | 0 | 0 | 0 | 0 | 0 | 102 |
| Herbaceous Openland | 36 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 36 |
| Low-Density Trees | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 11 |
| Lowland Aspen/Balsam Poplar | 0 | 0 | 0 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 |
| Lowland Conifers | 0 | 0 | 0 | 21 | 11 | 32 | 172 | 0 | 41 | 12 | 20 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 308 |
| Lowland Mixed Forest | 0 | 20 | 0 | 17 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 44 |
| Lowland Shrub | 68 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 67 |
| Lowland Spruce/Fir | 0 | 0 | 0 | 0 | 174 | 0 | 0 | 0 | 37 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 211 |
| Mixed Upland Deciduous | 0 | 0 | 0 | 12 | 11 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 26 |
| Northern Hardwood | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 601 | 619 |
| Upland Conifers | 0 | 0 | 13 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 13 |
| Upland Mixed Forest | 0 | 0 | 0 | 144 | 55 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 199 |
| Upland Shrub | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 12 |
| Upland Spruce/Fir | 0 | 0 | 0 | 80 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 80 |
| Total | 127 | 20 | 48 | 258 | 350 | 11 | 32 | 175 | 41 | 56 | 50 | 84 | 0 | 0 | 0 | 0 | 0 | 601 | 1850 |



Report 2 – Treatment Summary

Sault Ste. Marie Mgt. Unit
Year of Entry: 2019

Acres of Harvest

Compartment 133
Total Compartment Acres: 1,854

Commercial Harvest - 262
Harvests with Site Condition - 0
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 |
|---------------------|----------|------------|----------------|-----------|-------------|----------|-------------------|-----------|-------|-------------|
| Herbaceous Openland | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 20 | | 20 |
| Northern Hardwood | 0 | 243 | 0 | 0 | 0 | 0 | 0 | 0 | | 243 |
| Total | 0 | 243 | 0 | 0 | 0 | 0 | 0 | 20 | | 262 |

Proposed and Next Step Treatments by Method

| | Harvest | Site Prep | Planting | Seeding | Burning | Pesticide | Monitoring | Other | Non-Forest Mgt. | Total Acres |
|--------------|------------|-----------|----------|----------|----------|------------|------------|----------|-----------------|-------------|
| Current | 262 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 262 |
| Next Step | 0 | 0 | 0 | 0 | 0 | 243 | 0 | 0 | | 243 |
| Total | 262 | 0 | 0 | 0 | 0 | 243 | 0 | 0 | | 505 |



| S t a n d | Treatment Name | Acres | Stand CoverType | Size Density | Stand Age | BA Range | Treatment Type | Treatment Method | Cover Type Objective | Age Structure | Approval Status |
|-----------------------|----------------|-------|--------------------------------|----------------|-----------|----------|----------------|-----------------------|-------------------------|---------------|----------------------|
| 26 | 45133026-Cut | 52.1 | 4110 - Sugar Maple Association | Sawtimber Well | 66 | 81-110 | Harvest | Single Tree Selection | 411 - Northern Hardwood | Uneven-Aged | Draft Field Boundary |

Habitat Cut: No**Site Condition:**

Prescription Thin stand to regulation (approximately 70-90 ba). Promote quality black cherry and yellow birch where present. Do not cut any White Pine, hemlock, or oak if present. Leave 1-2 wolfy trees per acre, and leave at least 2 yellow birch and/or maple with rough bark per acre where present.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Any mix of maple, birch, aspen, cherry, balsam fir, spruce, white pine, or hemlock.

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018

| | | | | | | | | | | | |
|----|--------------|-------|---|-----------------|----|---------|---------|-----------------------|-------------------------|-------------|----------------------|
| 30 | 45133030-Cut | 176.2 | 4112 - Maple, Beech, Cherry Association | Poletimber Well | 86 | 111-140 | Harvest | Single Tree Selection | 411 - Northern Hardwood | Uneven-Aged | Draft Field Boundary |
|----|--------------|-------|---|-----------------|----|---------|---------|-----------------------|-------------------------|-------------|----------------------|

Habitat Cut: No**Site Condition:**

Prescription Thin stand to regulation (approximately 70-90 ba). Promote quality Yellow Birch and Black Cherry where present. Do not cut any Hemlock or oak if present. Leave 1-2 wolfy trees per acre, and leave at least 2 yellow birch and/or maple with rough bark per acre where present.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Any mix of maple, birch, cherry, aspen, balsam fir, white pine, or spruce.

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018

| | | | | | | | | | | | |
|----|--------------|-----|---------------------------|------------|--|-------------|---------|-----------------|---------------------------|--|----------------------|
| 31 | 45133031-Cut | 6.0 | 310 - Herbaceous Openland | Nonstocked | | Unspecified | Harvest | Other - Specify | 310 - Herbaceous Openland | | Draft Field Boundary |
|----|--------------|-----|---------------------------|------------|--|-------------|---------|-----------------|---------------------------|--|----------------------|

Habitat Cut: No**Site Condition:**

Prescription Clearcut for opening maintenance. Consult wildlife for any follow up treatments.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018

| | | | | | | | | | | | |
|----|--------------|-----|---------------------------|------------|--|-------------|---------|-----------------|---------------------------|--|----------------------|
| 32 | 45133032-Cut | 8.0 | 310 - Herbaceous Openland | Nonstocked | | Unspecified | Harvest | Other - Specify | 310 - Herbaceous Openland | | Draft Field Boundary |
|----|--------------|-----|---------------------------|------------|--|-------------|---------|-----------------|---------------------------|--|----------------------|

Habitat Cut: No**Site Condition:**

Prescription Clear-cut for opening maintenance. Consult wildlife division for follow up treatments..

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018



| S t a n d | Treatment Name | Acres | Stand CoverType | Size Density | Stand Age | BA Range | Treatment Type | Treatment Method | Cover Type Objective | Age Structure | Approval Status |
|-----------------------|----------------|-------|---------------------------|--------------|-----------|-------------|----------------|------------------|---------------------------|---------------|----------------------|
| 36 | 45133036-Cut | 5.6 | 310 - Herbaceous Openland | Nonstocked | | Unspecified | Harvest | Other - Specify | 310 - Herbaceous Openland | | Draft Field Boundary |

Habitat Cut: No

Site Condition:

Prescription Clearcut for opening maintenance. Consult wildlife division for follow up treatments.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018

| | | | | | | | | | | | |
|----|--------------------|------|----------------------------|----------------|----|---------|---------|-----------------------|--------------------------------|-------------|----------------------|
| 43 | 45133043_south-Cut | 14.5 | 4115 - Y.Birch, Hemlock NH | Sawtimber Well | 81 | 111-140 | Harvest | Single Tree Selection | 4110 - Sugar Maple Association | Uneven-Aged | Draft Field Boundary |
|----|--------------------|------|----------------------------|----------------|----|---------|---------|-----------------------|--------------------------------|-------------|----------------------|

Habitat Cut: No

Site Condition:

Prescription Mark stand to 80 to 90 Basal Area. Retain some beech with the smooth bark and wildlife trees. Some ironwood if present and all junberry and conifer should be left. Some larger canopy gaps may be desirable around the cherry and yellow birch if possible to regenerate those species and enhance the advanced regeneration present. Open up the drip line of the hemlock. Follow BMP guidelines along the stream and wetland edges. Actual treatment size may vary depending on what conditions are found on the ground.

Next Step Monitoring, Natural Regen (Intermediate)

Treatments:

Acceptable Any mix of maple, birch, cherry, beech, balsam, pine, cedar, or hemlock.

Regen:

Other Need to put road and bridge from the east across west branch of Hendrie River to access the stand. Should be cut with stands 56 and 63. Care must be taken to prevent erosion and problems from the bridge and road placements on and around the trout streams. Old next step comments: 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: 10/01/2018

Total Treatment Acreage Proposed: 262.4

Report 4 – Site Conditions

Sault Ste. Marie Mgt. Unit

Matt Edison : Examiner

Compartment: 133

Year of Entry: 2019

Availability for Management

| Total Acres | Acres Available | Acres Avail | | Dominant Site Conditions | Dominant Site Conditions | | | |
|----------------|--------------------|----------------|---------------|-----------------------------|--------------------------|----|----|-----|
| | | With Condition | Not Available | | 5F | 1D | 2G | 3J |
| 115 | 107 | 3 | 5 | Aspen | 3 | | | 5 |
| 102 | 38 | 27 | 37 | Cedar | 27 | | | 37 |
| 36 | 36 | 0 | 0 | Herbaceous Openland | | | | 0 |
| 11 | 11 | 0 | 0 | Low-Density Trees | | | | 0 |
| 7 | 0 | 7 | 0 | Lowland Aspen/Balsam Poplar | 7 | | | |
| 309 | 219 | 39 | 51 | Lowland Conifers | 39 | | 24 | 26 |
| 44 | 28 | 0 | 16 | Lowland Mixed Forest | 0 | | | 16 |
| 68 | 39 | 0 | 29 | Lowland Shrub | | | | 29 |
| 211 | 37 | 0 | 174 | Lowland Spruce/Fir | | | | 174 |
| 26 | 18 | 0 | 8 | Mixed Upland Deciduous | 0 | | | 8 |
| 620 | 560 | 13 | 46 | Northern Hardwood | 13 | 26 | | 20 |
| 13 | 13 | 0 | 0 | Upland Conifers | | | | |
| 199 | 196 | 0 | 2 | Upland Mixed Forest | | | | 2 |
| 12 | 12 | 0 | 0 | Upland Shrub | | | | |
| 80 | 3 | 77 | 0 | Upland Spruce/Fir | 77 | | | 0 |
| 1,854 | 1,319 | 167 | 368 | Total Forested Acres | 167 | 26 | 24 | 318 |
| | 71% | 9% | 20% | 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 | 3J: Water quality / BMPs (stream, river, or lake) | 76 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: | | | | | | | |
| 3 | Unavailable | 3J: Water quality / BMPs (stream, river, or lake) | 116 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: | | | | | | | |

Report 4 – Site Conditions

Sault Ste. Marie Mgt. Unit

Compartment: 133

Matt Edison : Examiner

Year of Entry: 2019

| | | | | | | | |
|--|--------------------|---|----|-------------|-------------|-------------|-------------|
| 4 | Unavailable | 1D: Interest Group / Neighbor | 26 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: | | | | | | | |
| 5 | Available | 5F: Evaluated for Forest Health Considerations | 10 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: | | | | | | | |
| 7 | Available | 5F: Evaluated for Forest Health Considerations | 84 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: Monitoring for SBW | | | | | | | |
| 8 | Available | 5F: Evaluated for Forest Health Considerations | 31 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: Monitoring for SBW | | | | | | | |
| 9 | Unavailable | 2G: Too wet (sensitive soils, does not include access issues) | 24 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: | | | | | | | |
| 10 | Available | 5F: Evaluated for Forest Health Considerations | 16 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: | | | | | | | |

Report 4 – Site Conditions

Sault Ste. Marie Mgt. Unit

Matt Edison : Examiner

Compartment: 133

Year of Entry: 2019

| | | | | | | | |
|------------------|------------------|---|----|-------------|-------------|-------------|-------------|
| 12 | Available | 5F: Evaluated for Forest Health Considerations | 12 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: | | | | | | | |
| 13 | Available | 5F: Evaluated for Forest Health Considerations | 13 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: | | | | | | | |

Mgt. Unit

Compartment: #Type!

Year of Entry:



Report 5 – 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 |
|----------|--------------|-------------|----------------|-------|
|----------|--------------|-------------|----------------|-------|

Comments



Report 6 – 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 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 | 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. |
| 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 | 6128 - Lowland Coniferous, Mixed Deciduous | Poletimber Well | 20.4 | 100 | 81-110 | Smaller diameter fringe stand. Variable low ground with some areas of higher with mixed conifer and deciduous. Check in next entry for possible harvest. |
| 4 | 6132 - Mixed Lowland Forest with Cedar | Poletimber Medium | 6.7 | 36 | 51-80 | Transition between upland stand and lower river corridor. Mix of everything, but small diameter and tag alder mixed in where lowest. |
| 6 | 4112 - Maple, Beech, Cherry Association | Poletimber Well | 10.3 | 73 | 81-110 | Stand thinned as part of "Mystery Skull". Overall basal area still relatively in regulation, avg. About 90. Let go until next entry. |
| 7 | 42330 - Upland Fir | Poletimber Well | 53.2 | 29 | Immature | Clear cut in 1989. Stand is mostly balsam & spruce with some aspen, cherry. Some Hemlock patches and scattered trees. |
| 8 | 6120 - Lowland Cedar | Poletimber Well | 27.6 | 100 | 141-170 | Poor quality stand of cedar, balsam, and black spruce. There is a small presence of p. birch. |
| 9 | 4112 - Maple, Beech, Cherry Association | Poletimber Well | 5.3 | 66 | 81-110 | Stand thinned as "Mystery Skull". Basal area is lower in this stand in comparison to others adjacent. Averages about 90 basal area. Lost the beech component from BBD. Leave this stand and check it again in 10 years. |
| 10 | 4134 - Aspen, Spruce/Fir | Poletimber Well | 53.4 | 35 | 141-170 | Aspen/ balsam fir. Cut in 1984. Good looking stand. Check next entry for possible harvest. |
| 11 | 6120 - Lowland Cedar | Poletimber Well | 38.3 | 99 | | Hendrie River corridor. Dense mixed cedar-Q type. |
| 12 | 6128 - Lowland Coniferous, Mixed Deciduous | Poletimber Well | 24.3 | 81 | 81-110 | Very wet stand of poor quality cedar and spruce. Some tamarack in places. A few areas of aspen and birch where slightly higher. |
| 13 | 4119 - Mixed Northern Hardwoods | Sawtimber Well | 21.2 | 72 | 81-110 | Thinned as part of "Cherry Seed Hardwood" sale. still lower ba, about 90-100. check in 10 years. |
| 14 | 4110 - Sugar Maple Association | Sapling Well | 32.9 | 31 | Immature | Opening that is nearly fully stocked with Cherry, but w/ some balsam and spruce. |
| 15 | 6130 - Fir, Aspen, Maple | Sapling Medium | 20.3 | 6 | Immature | Cut in 2011 |
| 17 | 6124 - Lowland Spruce-Fir | Sapling Medium | 10.5 | 46 | | Very Wet. Poor site, but is stocked with Spruce, Tamarack, Balsam, and some W. Pine. Old filled on bog. |
| 18 | 4191 - Mixed Upland Deciduous with Conifer | Poletimber Medium | 11.4 | 38 | 51-80 | W.P. left after 80-82 cc. Filling in with Mr, balsam, and cherry brush |
| 19 | 4319 - Mixed Upland Forest | Sapling Well | 35.8 | 27 | Immature | |



| Level 4 Cover Type | Size Density | Acres | Stand Age | BA Range | General Comments: |
|--|-----------------|-------|--------------|-------------|--|
| 6139 - Mixed Lowland Forest | Poletimber Well | 17.3 | 26 | 141-170 | Absolute mixed stand of species and high/low ground. Partial ridge runs length. Small diameters and brushy. A few scattered White Pine. Lowland conifers in wet holes. |
| 4134 - Aspen, Spruce/Fir | Sapling Well | 8.3 | 16 | Immature | Stand was cut in 2002. Mystery Skull. 45-006-01-01 |
| 4319 - Mixed Upland Forest | Sapling Well | 22.2 | 27 | Immature | |
| 4116 - Mixed N. Hardwood - Aspen | Sapling Well | 12.2 | 34 | Immature | Poor hardwood brush |
| 4319 - Mixed Upland Forest | Sapling Well | 54.4 | 27 | 81-110 | |
| 6124 - Lowland Spruce-Fir | Poletimber Well | 16.4 | 82 | 141-170 | |
| 4110 - Sugar Maple Association | Sawtimber Well | 52.1 | 66 | 81-110 | Thinned as part of "Cherry Seed" 45128-99-01. Good looking Hard maple, ready to thin this entry. |
| 4116 - Mixed N. Hardwood - Aspen | Sapling Well | 5.7 | 34 | Immature | Poor hardwood brush |
| 4130 - Aspen | Sapling Well | 23.9 | 16 | Immature | Cut in 20 Mystery Skull 45-006-01-01. Good looking aspen mix regeneration. |
| 4112 - Maple, Beech, Cherry Association | Poletimber Well | 176.2 | 86 | 111-140 | Thinned as part of "Mystery Skull" sale. This stand varies across its area. Some areas with lower basal area from Beech dropping out. Basal area is not super high, but a thinning wouldn't hurt. Promote the mast producing species and do not cut any Hemlock. |
| 4319 - Mixed Upland Forest | Poletimber Well | 54.8 | 31 | Immature | Small diameter mix of everything. |
| 4191 - Mixed Upland Deciduous with Conifer | Sapling Poor | 11.6 | 21 | Immature | Grass opening with lots of cherry brush. |
| 6128 - Lowland Coniferous, Mixed Deciduous | Poletimber Well | 32.1 | 56 | 81-110 | Mix along River corridor. Poor quality stems of Mr, P. Birch, Balsam mixed in with cedar and black spruce. |
| 4112 - Maple, Beech, Cherry Association | Poletimber Well | 163.2 | 76 | 81-110 | Thinned as part of "Mystery Skull" 45-106-00-01. Stand was thinned same time as the adjacent stand to the south. The diameters are a little larger in this stand and the basal area is overall still within regulation. There appears to have been more beech in this stand than the adjacent and there are many areas of lower ba due to beech dropping out of the canopy. Hold for this entry and check it for thinning in 10 years. |
| 4134 - Aspen, Spruce/Fir | Sapling Well | 4.8 | 26 | 81-110 | Brushy part of adjacent opening. |



| | Level 4 Cover Type | Size Density | Acres | Stand Age | BA Range | General Comments: |
|----|--|-----------------|-------|--------------|-------------|--|
| 41 | 4319 - Mixed Upland Forest | Sapling Well | 31.3 | 26 | Immature | Stand of mixed cherry, balsam, Mr brush |
| 42 | 429 - Mixed Upland Conifers | Sapling Medium | 13.2 | 18 | Immature | Part of "Dan's Moose Block' sale. Mostly aspen regen with scattered W.P. |
| 43 | 4115 - Y.Birch, Hemlock NH | Sawtimber Well | 14.5 | 81 | 111-140 | Stand still has a raptor nest, but it does not appear active. Thin stand to regulation, but favor Hemlock and Yellow Birch as reserve. Mostly red maple, but some areas with decent sugar. Bridge needed for access at same crossing location as sale in adjacent stand. |
| 44 | 4134 - Aspen, Spruce/Fir | Poletimber Well | 21.6 | 34 | 111-140 | Nice stand of aspen. Very dense will be nice in 10-20 years. Was cut in 1984. Healthy aspen, check next entry. |
| 50 | 4119 - Mixed Northern Hardwoods | Poletimber Well | 21.8 | 71 | 111-140 | Stand is under special use permit to Mich. karst Conservancy due to cave openings being in the stand. No management in this unique area. |
| 51 | 6122 - Black Spruce | Poletimber Well | 173.9 | 35 | 141-170 | Was cut in the 80's basically a treed bog/ wetland. Almost pure black spruce with very large wp left as a widely scattered overstory. |
| 52 | 6124 - Lowland Spruce-Fir | Poletimber Well | 151.1 | 61 | 141-170 | Variable stand. Mix of species, heavier of each in different places. Only possible management would be in Northern most tip near cave entrances to east. |
| 55 | 6128 - Lowland Coniferous, Mixed Deciduous | Poletimber Well | 6.1 | 36 | 81-110 | Small diameter pole of mixed conifer nada some deciduous. Scattered large white pine. Ground is much lower and wet compared to adjacent hardwood stand. |
| 58 | 6124 - Lowland Spruce-Fir | Poletimber Well | 12.3 | 90 | 51-80 | Very wet, dense cedar / black spruce. |
| 59 | 6129 - Mixed Coniferous Lowland Forest | Poletimber Well | 21.1 | 67 | 111-140 | Tamarack/Cedar mix. |
| 61 | 4134 - Aspen, Spruce/Fir | Sapling Well | 0.8 | 10 | Immature | Stand was cut in 2008. Aspen regeneration with mix of spruce and balsam. A few residual overstory white pine. |
| 62 | 4134 - Aspen, Spruce/Fir | Sapling Well | 2.2 | 10 | Immature | Stand was cut in 2008. Aspen regeneration with mix of spruce and balsam. A few residual overstory white pine. |
| 65 | 4191 - Mixed Upland Deciduous with Conifer | Poletimber Well | 3.4 | 62 | 51-80 | Sliver stand along edge of drainage corridor. |
| 70 | 4115 - Y.Birch, Hemlock NH | Poletimber Well | 4.1 | 71 | 111-140 | Stand is under special use permit to Mich. karst Conservancy due to cave opening being in the stand. No management in this unique area. |

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Sault Ste. Marie Mgt. Unit

Report 7 – Forested Stands

Compartment: 133
Year of Entry: 2019

| Stand | Level 4 Cover Type | Size Density | Acres | Stand Age | BA Range | General Comments: |
|-------|--|-----------------|-------|-----------|-------------|---|
| 71 | 6122 - Black Spruce | Poletimber Well | 37.2 | 71 | 141-170 | Small size wetland spruce with some wp. Not very big, looks good. No sign of SBW. |
| 73 | 4119 - Mixed Northern Hardwoods | Poletimber Well | 8.7 | 76 | 141-170 | Cut in 2016, thinned as "Slick Bridge Hardwood" 45-114-12-01. |
| 74 | 4110 - Sugar Maple Association | Poletimber Well | 91.5 | 71 | 81-110 | Stand of pretty nice Sugar Maple. Scatter Cherry and Yellow Birch. Thinned in 2011. Pennant Race Hardwood 45-121-09-01 |
| 77 | 6128 - Lowland Coniferous, Mixed Deciduous | Poletimber Well | 14.7 | 31 | 111-140 | Stand within river influence zone. Mix of lowland conifer in wet areas and some small deciduous in higher ground. Very small. Good stream buffer. |
| 79 | 6120 - Lowland Cedar | Poletimber Well | 36.2 | 108 | 141-170 | Stand cedar mix along Hendrie River corridor. |
| 80 | 6112 - Lowland Aspen | Sapling Well | 7.2 | 35 | Immature | Stand was part of a large clear cut with adjoining stand. Hemlock were left in this stand as a component. Aspen, ,balsam mixed regeneration. |
| 81 | 42340 - Upland Spruce/Fir | Poletimber Well | 26.6 | 29 | Unspecified | Clear cut in 1989. Stand is mostly balsam & spruce with some aspen, cherry. Very brushy |



| Stand | Cover Type | Acres | Managed Site | General Comments: |
|-------|----------------------------------|-------|--------------|--|
| 2 | 6229 - Mixed lowland shrub | 4.2 | No | Stand of dense cedar along Hendrie River corridor. |
| 3 | 330 - Low-Density Trees | 5.2 | No | Grass opening ridge with scattered Conifer. |
| 5 | 320 - Upland Shrub | 12.4 | No | |
| 16 | 310 - Herbaceous Openland | 6.0 | No | Filling in with cherry brush. |
| 27 | 629 - Mixed non-forested wetland | 9.8 | No | |
| 31 | 310 - Herbaceous Openland | 6.0 | No | Conduct openings maintenance if possible by cutting with other treatments in the area. Leave any oak and hemlock if present. |
| 32 | 310 - Herbaceous Openland | 8.0 | No | Conduct openings maintenance if possible by cutting with other treatments in the area. Leave any oak and hemlock if present. |
| 33 | 310 - Herbaceous Openland | 10.8 | No | |
| 35 | 6229 - Mixed lowland shrub | 7.0 | No | River corridor. |
| 36 | 310 - Herbaceous Openland | 5.6 | No | Conduct openings maintenance if possible by cutting with other treatments in the area. Leave any oak and hemlock if present. Any areas that are closed in already can be left. |
| 49 | 622 - Lowland Shrub | 23.3 | No | River corridor. |
| 54 | 629 - Mixed non-forested wetland | 1.9 | No | |
| 56 | 330 - Low-Density Trees | 6.2 | No | Very wet flooded stand. Most of the cedar has died or is dying. |
| 57 | 629 - Mixed non-forested wetland | 4.2 | No | |
| 76 | 622 - Lowland Shrub | 17.5 | No | |