



Compartment Review Presentation

Sault Ste. Marie Forest Management Unit

Compartment 45141

Entry Year 2020

Acreage: 1,793

County Mackinac

Management Area: Strickler Aspen

Revision Date: 2018-07-31

Stand Examiner: Matt Edison

Legal Description:

T43N R7W Sections: 31, 32, & 33
Hendricks Township

Identified Planning Goals:

The compartment is located 2 miles northwest of Epoufette. It is in the Strickler Aspen Management Area. The entire compartment (with exception of a small portion) is within a deer wintering area. Goals include enhancing the age class diversity within the aspen/mixed upland deciduous/mixed lowland deciduous areas. Cutting in these types have been going on since the mid-1970's. Generally we're moving into the harder accessed areas and treatments will pair up with stands in the adjacent compartment(s). The hardwood stands have had the beech drop out or have had beech salvage harvested due to BBD infestation. Treatments this entry will focus on a large red pine plantation. The higher areas of basal area will be thinned and the remaining area will be final harvested and regenerated to red pine. A younger, but merchantable stand of aspen/mix is being harvested to regenerate and help distribute the age class within the compartment.

Soil and topography:

The eastern 2/3 of the compartment is nearly level and undulating terrain, with steep ravines to the creek bottoms, and is comprised mainly of Wallace sand with adjacent areas of Pullup fine sand and Paquin sand. The level and undulating transition zones are made up of Spot-Finch complex and Markey-Spot-Finch complex. The western edges are undulating areas of Paquin-Finch sands and low ridges and depressions of Crowell-Markey complex. The low level cedar swamps are Markey and Carbondale mucks.

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

There is one private holding within the compartment which has a seasonal camp. The surrounding area is state lands except for 3 private 40 acre parcels. These also have seasonal camps. Both Great Lakes Gas and Enbridge Oil pipelines, as well as Edison-Sault Transmission line, transect the compartment.

Unique Natural Features:

The old Lake Nippising bluff is found in areas just south of Great Lakes pipeline. There is a potential for rare, threatened, or endangered plant and animal species within the compartment.

Archeological, Historical, and Cultural Features:

There is evidence of old logging camps in the area.

Special Management Designations or Considerations:

Virtually, the entire compartment is within a deer wintering complex.

Watershed and Fisheries Considerations:

This compartment contains three branches of Paquin Creek which serves as a tributary to Lake Michigan. Paquin Creek is designated a 10 Brook Trout Bag Limit trout stream less than 50' width. A 300' buffer is recommended for Paquin Creek in riparian areas susceptible to Aspen regeneration (specifically stands 5, 6, 14, 26, and 56). For areas not susceptible to Aspen regeneration, 100' plus 5' per 1% increase in slope; buffers are recommended to protect these areas in accordance with Best Management Practices (specifically stand 35).

Wildlife Habitat Considerations:

This compartment is part of the Strickler Aspen MA where featured wildlife species include American woodcock, ruffed grouse, snowshoe hare, and white-tailed deer. Most of the compartment is dominated by aspen and red pine, and both of these types continue into neighboring compartments. Aspen stands provide habitat for all of the featured species as well as others like bear. Lowland stands including lowland poplar and cedar cover the western quarter of it; lowland types continue to the west and south. These lowland areas provide cover for deer and habitat for migratory birds and other

wildlife. Most aspen is young and these stands will generally be left to mature at this time. More emphasis may be placed on encouraging age class diversity in this compartment in the future. Lowland stands, particularly lowland conifer stands, will be retained to provide cover. Streams and riparian areas will be buffered to protect these corridors.

Mineral Resource and Development Concerns and/or Restrictions

Construction sand/gravel pits are not located in the area, but there appears to be some sand & gravel potential within the compartment. An industrial sand operation is located five miles to the southeast. There may be some limestone/dolostone (crushed stone) potential in places, but top of bedrock generally appears to be deeper here. There is no known metallic mineral potential in this part of the state, and there is currently no economical oil and gas potential in the UP.

Vehicle Access:

The access is fairly limited due to creeks and wetlands. Paquin Creek Road runs along the eastern border of the compartment. There are several two-tracks leading off this road to access areas between the creeks. The pipelines are used where feasible. Several pipeline crossings may be installed by Great Lakes Gas as part of a 1991 easement agreement to access timber in this area, mainly west of their gate in section 31.

Survey Needs:

None this entry.

Recreational Facilities and Opportunities:

Snowmobile trail 473 runs along Paquin Creek Road. Other recreational opportunities include hunting, fishing and trapping, as well as mushroom and berry picking.

Fire Protection:

There would be some potential for fires within the pine areas and adjacent stands, as was seen not too far north during the Troll Fire. Low potential exists within the low lying swamps.

Additional Compartment Information:

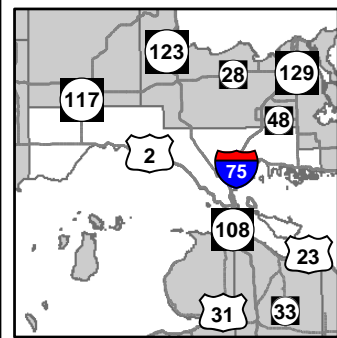
The following reports from the Inventory are attached:

- 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:

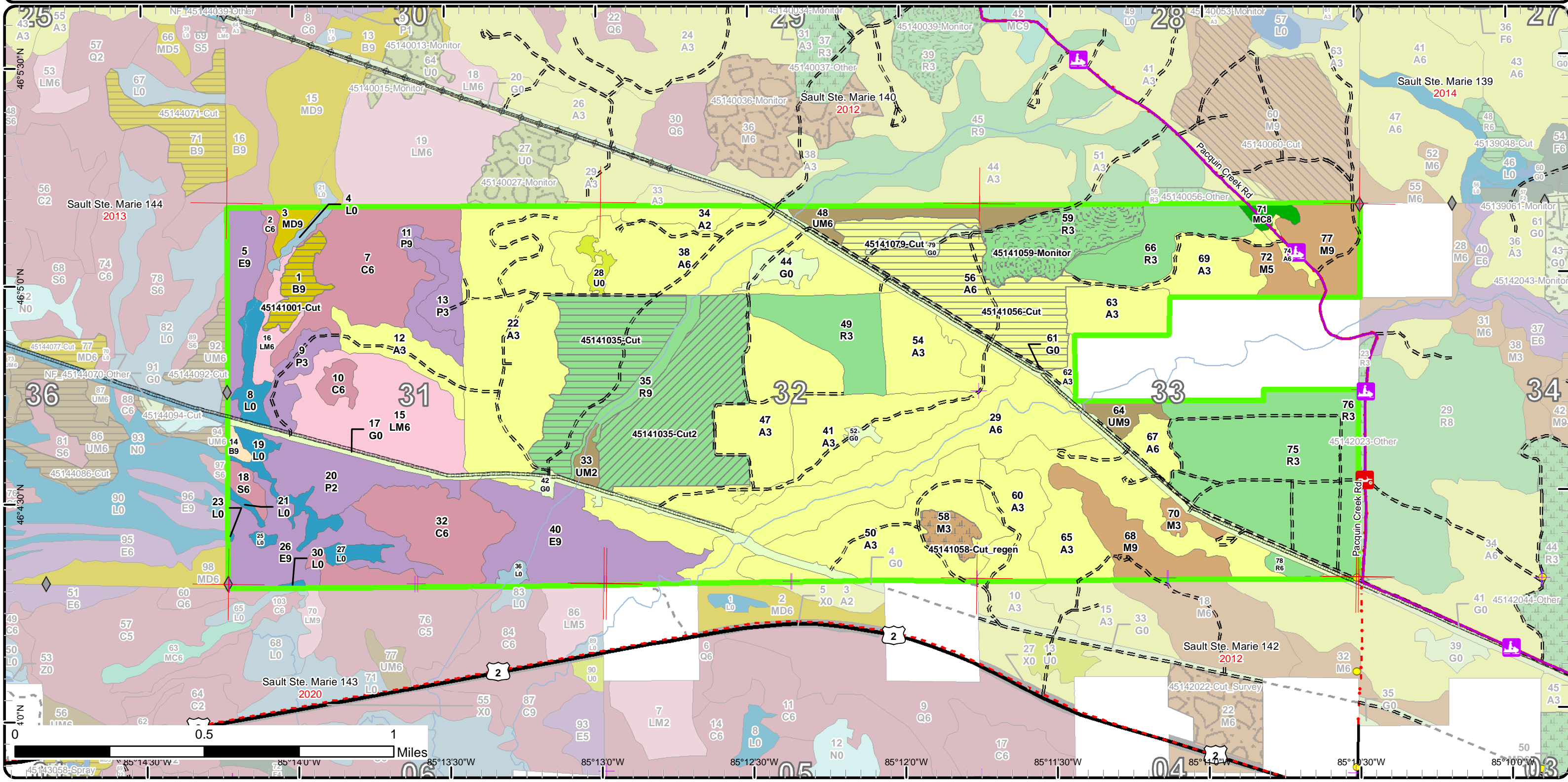
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map



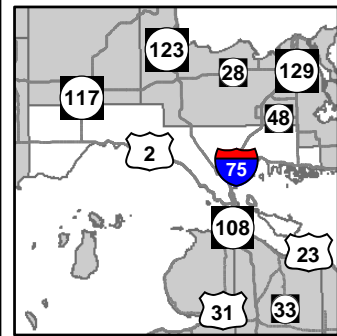
Compartment: 141
 T43N, R07W, Sec. 31-33
 County: Mackinac
 Unit: Sault Ste. Marie
 Mgmt Area: Strickler Aspen
 YOE: 2020
 Acres: 1,793 GIS Calculated
 Examiner: Matt Edison
 Map Revised: 12/13/2018
 Map Phase: Post Review

- | | | |
|--|--|---|
| <ul style="list-style-type: none"> — Miris Corners ⊕ Remonumented Section Corners ● Survey Grade Corners ◆ Field Grade Corners --- Counties == DNR - Forest Access Route — Federal / State Highway — Federal / State / County - Paved Road - - - County - Gravel Road - - - Private - Dirt / Gravel Road ORV Routes Snowmobile Trails Designated Bicycle Trails | <ul style="list-style-type: none"> --- Designated ORV Route --- Designated Snowmobile Trails --- Intermittent Stream --- Lake/Pond --- Perennial River --- Swamp --- Lakes and Rivers All --- Pipeline --- Powerline --- Compartment Boundary --- Other Treatment - See Comments --- Clearcut (w/Reserves) --- Thinning (Crown, Low, Systematic) --- Monitoring --- 411 - Northern Hardwood | <ul style="list-style-type: none"> 413 - Aspen 414 - Other Upland Deciduous 419 - Mixed Upland Deciduous 421 - Planted Pines 422 - Natural Pines 430 - Upland Mixed Forest 611 - Lowland Deciduous Forest 612 - Lowland Coniferous Forest 613 - Lowland Mixed Forest 310 - Herbaceous Openland 330 - Low Density Trees 622 - Lowland Shrub 629 - Mixed non-forested wetland Lakes |
|--|--|---|

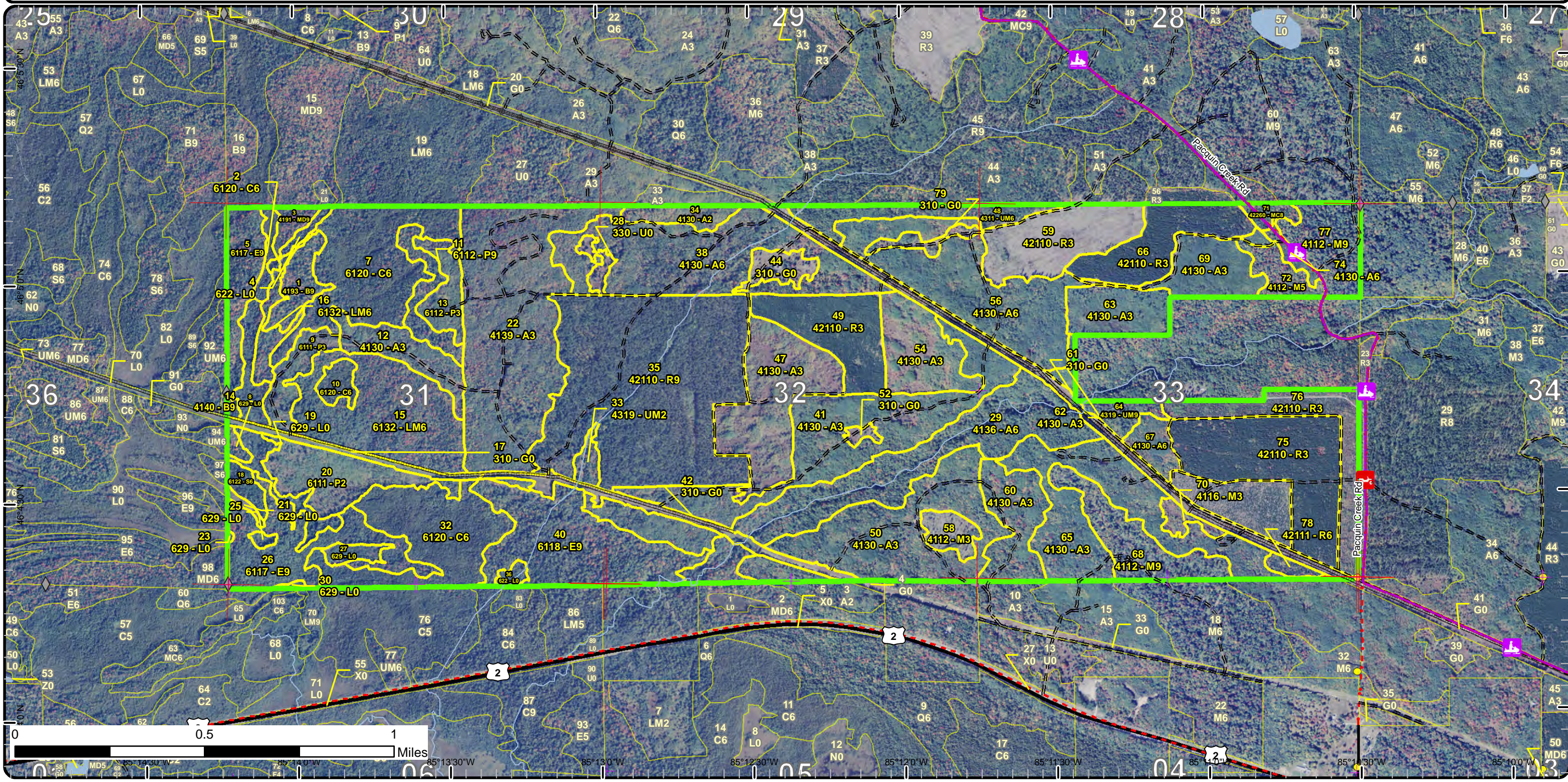


Stand Boundary Map

Compartment: 141
 T43N, R07W, Sec. 31-33
 County: Mackinac
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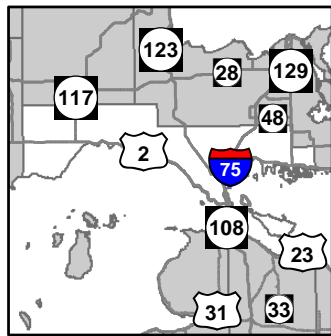


- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- ◆ Field Grade Corners
- Counties
- DNR - Forest Access Route
- Federal / State Highway
- Federal / State / County - Paved Road
- County - Gravel Road
- Private - Dirt / Gravel Road
- ORV Routes
- Snowmobile Trails
- - - Designated Bicycle Trails
- Designated ORV Route
- Designated Snowmobile Trails
- Intermittent Stream
- Lake/Pond
- Perennial River
- Swamp
- Lakes and Rivers All
- Pipeline
- Powerline
- Compartment Boundary
- Stand Boundaries
- 421 - Planted Pines
- 422 - Natural Pines
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 622 - Lowland Shrub
- 629 - Mixed non-forested wetland
- 411 - Northern Hardwood
- 413 - Aspen
- 414 - Other Upland Deciduous
- 419 - Mixed Upland Deciduous

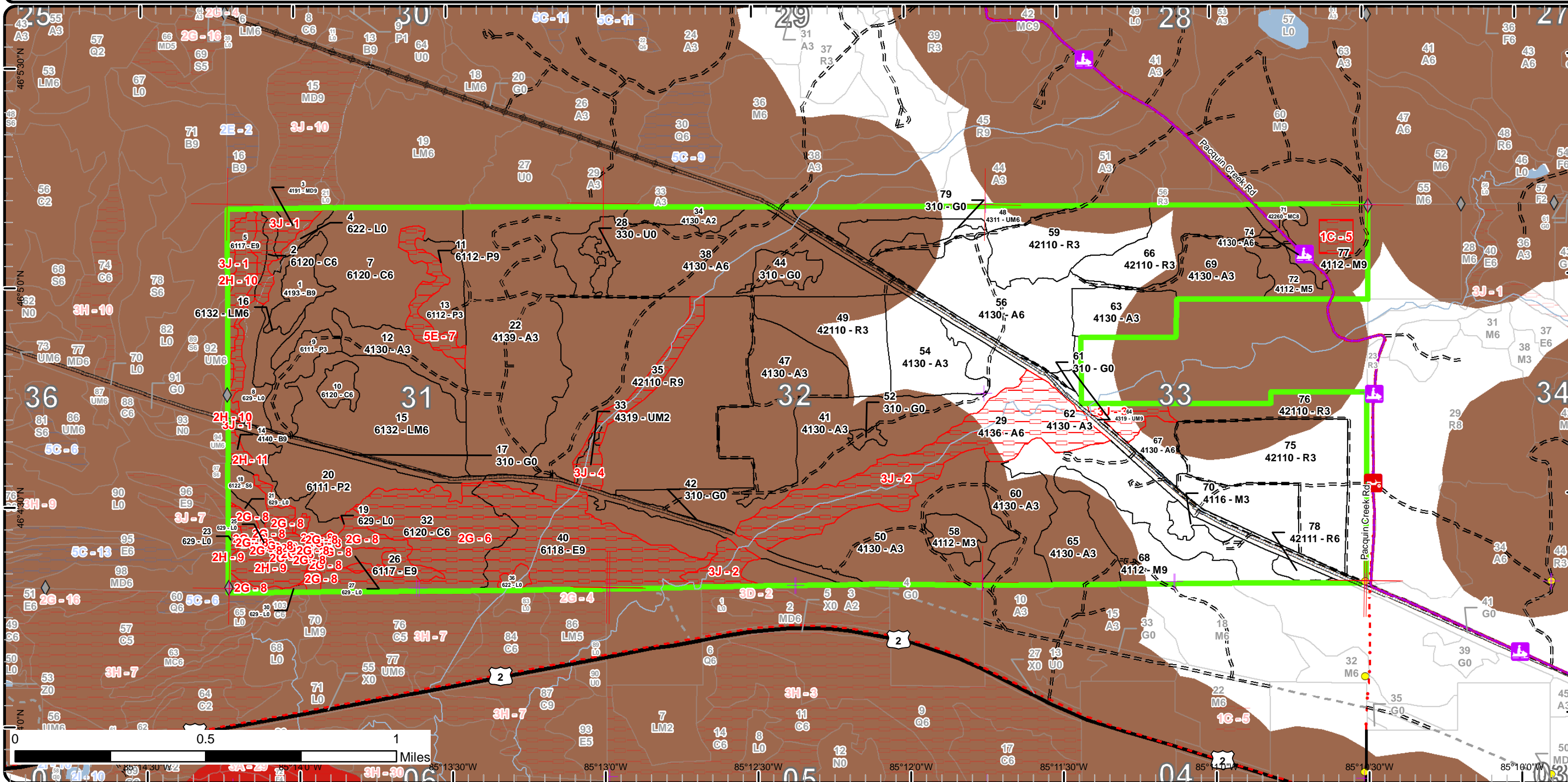


Special Conservation Areas & Site Conditions Map

Compartment: 141
 T43N, R07W, Sec. 31-33
 County: Mackinac
 Unit: Sault Ste. Marie
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- | | | |
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| <ul style="list-style-type: none"> — Miris Corners + Remonumented Section Corners ● Survey Grade Corners ◆ Field Grade Corners --- Counties == DNR - Forest Access Route == Federal / State Highway == Federal / State / County - Paved Road --- County - Gravel Road --- Private - Dirt / Gravel Road ORV Routes Snowmobile Trails Designated Bicycle Trails | <ul style="list-style-type: none"> --- Designated ORV Route --- Designated Snowmobile Trails --- Intermittent Stream --- Lake/Pond --- Perennial River --- Swamp --- Lakes and Rivers All --- Pipeline --- Powerline --- Compartment Boundary --- Unavailable 1C: Other dept or div proc/practices 2G: Too wet (sensitive soils, does not include access issues) | <ul style="list-style-type: none"> 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area) 3J: Water quality / BMPs (stream, river, or lake) 5E: Long-Term Retention Stand Boundaries Ecological Reference Areas Cold Water Streams 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 | 31 | 131 | 435 | 176 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 773 |
| Cedar | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 60 | 0 | 64 | 0 | 0 | 0 | 0 | 0 | 124 |
| Herbaceous Openland | 69 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 69 |
| Low-Density Trees | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| Lowland Aspen/Balsam Poplar | 0 | 0 | 45 | 13 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 13 | 69 |
| Lowland Deciduous | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 63 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 63 | 126 |
| Lowland Mixed Forest | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 71 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 70 |
| Lowland Shrub | 36 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 36 |
| Lowland Spruce/Fir | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| Mixed Upland Deciduous | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| Natural Mixed Pines | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| Northern Hardwood | 0 | 9 | 5 | 0 | 0 | 0 | 0 | 0 | 30 | 0 | 11 | 25 | 0 | 0 | 0 | 0 | 0 | 0 | 80 |
| Paper Birch | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 13 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 14 |
| Red Pine | 0 | 38 | 55 | 133 | 0 | 0 | 0 | 155 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 380 |
| Upland Mixed Forest | 0 | 0 | 0 | 19 | 5 | 0 | 0 | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 32 |
| Total | 109 | 47 | 136 | 296 | 440 | 176 | 0 | 0 | 160 | 42 | 155 | 71 | 25 | 64 | 0 | 0 | 0 | 76 | 1792 |



Report 2 – Treatment Summary

Sault Ste. Marie Mgt. Unit
Year of Entry: 2020

Compartment 141
Total Compartment Acres: 1,793

Acres of Harvest

Commercial Harvest - 230
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 |
|---------------------|------------|-----------|----------------|-----------|-------------|-----------|-------------------|----------|----------|-------------|
| Aspen | 70 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 70 |
| Herbaceous Openland | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| Paper Birch | 13 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 13 |
| Red Pine | 62 | 0 | 0 | 0 | 0 | 81 | 0 | 0 | 0 | 143 |
| Total | 150 | 0 | 0 | 0 | 0 | 81 | 0 | 0 | 0 | 231 |

Proposed and Next Step Treatments by Method

| | Harvest | Site Prep | Planting | Seeding | Burning | Pesticide | Monitoring | Other | Non-Forest Mgt. | Total Acres |
|--------------|------------|-----------|-----------|----------|-----------|------------|------------|----------|-----------------|-------------|
| Current | 231 | 0 | 0 | 0 | 0 | 36 | 9 | 0 | 0 | 276 |
| Next Step | 0 | 62 | 62 | 0 | 62 | 161 | 275 | 0 | 0 | 622 |
| Total | 231 | 62 | 62 | 0 | 62 | 161 | 311 | 9 | 0 | 898 |



| 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 |
|-----------------------|----------------|-------|---------------------|----------------|-----------|----------|----------------|-------------------------|----------------------------|---------------|----------------------|
| 1 | 45141001-Cut | 12.5 | 4193 - Birch, Aspen | Sawtimber Well | 96 | 141-170 | Harvest | Clearcut with Retention | 4319 - Mixed Upland Forest | Even-Aged | Draft Field Boundary |

Habitat Cut: No**Site Condition:**

Prescription This treatment is a re-prescribed part of terminated timber sale 7 Bridges Mix. Clearcut with retention. Leave areas of cedar and line out a couple
Specs: acre sized retention patches. Winter cut. Will require a stream crossing to remove the site condition.

Next Step Monitoring, Natural Regen (Intermediate)
Treatments:

Acceptable Any mix of Birch, aspen, maple, cherry, spruce, balsam fir, red pine, white pine, cedar, or hemlock.
Regen:

Other
Comment:

Proposed Start Date: 10/1 /2019

| | | | | | | | | | | | |
|----|--------------|------|--------------------------|----------------|----|---------|---------|-------------------------|-------------------------|-----------|----------------------|
| 35 | 45141035-Cut | 62.3 | 42110 - Planted Red Pine | Sawtimber Well | 79 | 141-170 | Harvest | Clearcut with Retention | 4211 - Planted Red Pine | Even-Aged | Draft Field Boundary |
|----|--------------|------|--------------------------|----------------|----|---------|---------|-------------------------|-------------------------|-----------|----------------------|

Habitat Cut: No**Site Condition:**

Prescription Harvest Red Pine with retention left as buffer along creek.
Specs:

Next Step Burn, Slash; SitePrep, Trenching; Pesticide, (Inactive)Aerial; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial
Treatments: Regen(3yr); Monitoring, Herbicide Use; Pesticide, (Inactive)Aerial

Acceptable RP
Regen:

Other
Comment:

Proposed Start Date: 10/1 /2019

| | | | | | | | | | | | |
|----|---------------|------|--------------------------|----------------|----|---------|---------|----------------|-------------------------|-----------|----------------------|
| 35 | 45141035-Cut2 | 80.6 | 42110 - Planted Red Pine | Sawtimber Well | 79 | 141-170 | Harvest | Crown Thinning | 4211 - Planted Red Pine | Even-Aged | Draft Field Boundary |
|----|---------------|------|--------------------------|----------------|----|---------|---------|----------------|-------------------------|-----------|----------------------|

Habitat Cut: No**Site Condition:**

Prescription Thin basal area to approx. ba 100-120. Release crowns.
Specs:

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Proposed Start Date: 10/1 /2019

| | | | | | | | | | | | |
|----|--------------|------|--------------|-----------------|----|---------|---------|-------------------------|-------------|-----------|----------------------|
| 56 | 45141056-Cut | 69.7 | 4130 - Aspen | Poletimber Well | 44 | 141-170 | Harvest | Clearcut with Retention | 413 - Aspen | Even-Aged | Draft Field Boundary |
|----|--------------|------|--------------|-----------------|----|---------|---------|-------------------------|-------------|-----------|----------------------|

Habitat Cut: No**Site Condition:**

Prescription Final harvest of aspen mix. Leave out areas of smaller diameter. Actual treatment size will be determined after ground work is complete. Leave a
Specs: representative tree approximately ever 80 ft.

Next Step Monitoring, Natural Regen (Re-Inventary)
Treatments:

Acceptable Aspen, maple, cherry, birch, pine, spruce, balsam, hemlock, or cedar.
Regen:

Other
Comment:

Proposed Start Date: 10/1 /2019



| 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 |
|-----------------------|--------------------|-------|---|--------------|-----------|----------|----------------|------------------|---|---------------|----------------------|
| 58 | 45141058-Cut_regen | 9.0 | 4112 - Maple, Beech, Cherry Association | Sapling Well | 6 | 51-80 | Other | Other | 4112 - Maple, Beech, Cherry Association | Even-Aged | Draft Field Boundary |

Habitat Cut: No

Site Condition:

Prescription Underplant white pine and/or oak after harvest. Acceptable regeneration includes maple, beech, cherry, yellow birch and white pine/oak in various amounts. Striped maple will be acceptable for nursing the white pine or oak seedlings.
Specs:

Next Step
Treatments:

Acceptable Regen: Acceptable regeneration includes maple, beech, cherry, yellow birch and white pine/oak in various amounts. Striped maple will be acceptable for nursing the white pine or oak seedlings.

Other Comment: Very heavy to beech, mixed areas of beech/red maple, and areas heavier to red maple. An occasional yellow birch and a few white pine log trees on stand edges. Beech of all sizes have high concentrations of beech scale. Beech snap evident. Striped maple found in most old canopy gaps from fallen trees. Old next step comments: Underplant white pine and/or oak after harvest. Acceptable regeneration includes maple, beech, cherry, yellow birch and white pine/oak in various amounts. Striped maple will be acceptable for nursing the white pine or oak seedlings.

Proposed Start Date: 10/31/2016

| | | | | | | | | | | | |
|----|------------------|------|--------------|-----------------|----|---------|------------|---------------|---|-----------|----------------------|
| 56 | 45141059-Monitor | 36.2 | 4130 - Aspen | Poletimber Well | 44 | 141-170 | Monitoring | Herbicide Use | 42111 - Planted Red Pine, Mixed Deciduous | Even-Aged | Draft Field Boundary |
|----|------------------|------|--------------|-----------------|----|---------|------------|---------------|---|-----------|----------------------|

Habitat Cut: No

Site Condition:

Prescription Monitor for release and/or pest management.

Specs:

Next Step ; Pesticide, (Inactive)Aerial
Treatments:

Acceptable Regen:

Other Comment: Percent to Treat = 100%

Proposed Start Date: 11/3 /2017

| | | | | | | | | | | | |
|----|--------------|-----|---------------------------|------------|---|-------------|---------|----------|---------------------------|--|----------------------|
| 79 | 45141079-Cut | 5.4 | 310 - Herbaceous Openland | Nonstocked | 0 | Unspecified | Harvest | Clearcut | 310 - Herbaceous Openland | | Draft Field Boundary |
|----|--------------|-----|---------------------------|------------|---|-------------|---------|----------|---------------------------|--|----------------------|

Habitat Cut: No

Site Condition:

Prescription Clearcut opening to maintain.

Specs:

Next Step Monitoring, Other - Specify
Treatments:

Acceptable Regen: None

Other Comment:

Proposed Start Date: 10/1 /2019

Total Treatment Acreage Proposed: 275.7

Report 4 – Site Conditions

Sault Ste. Marie Mgt. Unit

Matt Edison : Examiner

Compartment: 141

Year of Entry: 2020

Availability for Management

| Total Acres | Acres Available | Acres Avail | | Dominant Site Conditions | 1C | 2G | 2H | 3J | 5E |
|----------------|--------------------|----------------|---------------|-----------------------------|----|-----|----|-----|----|
| | | With Condition | Not Available | | | | | | |
| 773 | 694 | 0 | 79 | Aspen | | | | 79 | |
| 124 | 65 | 0 | 59 | Cedar | | 54 | | 5 | |
| 69 | 69 | 0 | 0 | Herbaceous Openland | | | | | |
| 4 | 4 | 0 | 0 | Low-Density Trees | | | | | |
| 70 | 58 | 0 | 12 | Lowland Aspen/Balsam Poplar | | | | | 12 |
| 126 | 0 | 0 | 126 | Lowland Deciduous | | 87 | 29 | 10 | |
| 71 | 71 | 0 | 0 | Lowland Mixed Forest | | | | | |
| 36 | 36 | 0 | 0 | Lowland Shrub | | | | | |
| 5 | 5 | 0 | 0 | Lowland Spruce/Fir | | | | | |
| 5 | 0 | 0 | 5 | Mixed Upland Deciduous | | | | 5 | |
| 5 | 5 | 0 | 0 | Natural Mixed Pines | | | | | |
| 79 | 54 | 0 | 25 | Northern Hardwood | 25 | | | | |
| 15 | 12 | 0 | 2 | Paper Birch | | | 2 | | |
| 381 | 370 | 0 | 11 | Red Pine | | | | 11 | |
| 31 | 19 | 0 | 12 | Upland Mixed Forest | | | | 12 | |
| 1,792 | 1,461 | | 332 | Total Forested Acres | 25 | 141 | 31 | 123 | 12 |
| | 82% | | 19% | 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) | 20 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: Treat with larger adjacent stand to the north in comp 140. | | | | | | | |
| 2 | Unavailable | 3J: Water quality / BMPs (stream, river, or lake) | 79 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: Stream corridor | | | | | | | |

Report 4 – Site Conditions

Sault Ste. Marie Mgt. Unit

Matt Edison : Examiner

Compartment: 141

Year of Entry: 2020

| | | | | | | | |
|--|-------------|---|-----|---|---|-------------|-------------|
| 3 | Unavailable | 3J: Water quality / BMPs (stream, river, or lake) | 8 | Unspecified | Unspecified | Unspecified | Unspecified |
| <p>Comments: Portion of stand is Paquin Creek influence zone.</p> | | | | | | | |
| 4 | Unavailable | 3J: Water quality / BMPs (stream, river, or lake) | 16 | Unspecified | Unspecified | Unspecified | Unspecified |
| <p>Comments:</p> | | | | | | | |
| 5 | Unavailable | 1C: Other dept or div proc/practices | 5 | Unspecified | Unspecified | Unspecified | Unspecified |
| <p>Comments: Walters Research Project: Long-term beech regeneration monitoring, up to 20 years (through 2039)</p> | | | | | | | |
| 6 | Unavailable | 2G: Too wet (sensitive soils, does not include access issues) | 117 | 3H: Deer Wintering Area - habitat is incompatible with harvest at this time | 3J: Water quality / BMPs (stream, river, or lake) | Unspecified | Unspecified |
| <p>Comments: Wet</p> | | | | | | | |
| 7 | Unavailable | 5E: Long-Term Retention | 13 | Unspecified | Unspecified | Unspecified | Unspecified |
| <p>Comments:</p> | | | | | | | |
| 8 | Unavailable | 2G: Too wet (sensitive soils, does not include access issues) | 25 | 3H: Deer Wintering Area - habitat is incompatible with harvest at this time | Unspecified | Unspecified | Unspecified |
| <p>Comments:</p> | | | | | | | |

Report 4 – Site Conditions

Sault Ste. Marie Mgt. Unit

Matt Edison : Examiner

Compartment: 141

Year of Entry: 2020

| | | | | | | | |
|-----------|-------------|--|----|-------------|-------------|-------------|-------------|
| 9 | Unavailable | 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area) | 17 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: | | | | | | | |
| 10 | Unavailable | 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area) | 12 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: | | | | | | | |
| 11 | Unavailable | 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area) | 2 | 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. |



| | Level 4 Cover Type | Size Density | Acres | Stand Age | BA Range | General Comments: |
|----|--|--------------------|-------|--------------|-------------|--|
| 1 | 4193 - Birch, Aspen | Sawtimber Well | 12.5 | 96 | 141-170 | Currently on contract as part of Seven Bridges Mix. |
| 2 | 6120 - Lowland Cedar | Poletimber Well | 4.7 | 122 | 141-170 | Wet cedar, part of larger stand to the north. There is a creek running through the stand. There is more tag alder than cedar in wettest areas. |
| 3 | 4191 - Mixed Upland Deciduous with Conifer | Sawtimber Well | 5.1 | 80 | 141-170 | Small stand in this compartment, but is part of a larger stand in compartment to the north. WB/A over balsam. Small drains feed creek to east. If treating in future do so with stand to the north in compartment 140 (2022 YOE) |
| 5 | 6117 - Lowland Deciduous, Mixed Coniferous | Sawtimber Well | 21.8 | 96 | 141-170 | Portion of the stand is under contract as sale "Seven Bridges Mix". What was not included in stand is areas of wet, lower ground and poorer timber. |
| 7 | 6120 - Lowland Cedar | Poletimber Well | 59.1 | 125 | 141-170 | Areas of pure cedar mixed with areas of cedar, black spruce mix. Scattered WP. |
| 9 | 6111 - Lowland Balsam Poplar | Sapling Well | 14.1 | 11 | 141-170 | Cut in winter 2006-07. Cedar left. Wetter along south end, with more cedar here too. Regen 10-15' tall. Total mix of mostly deciduos, except where wettest where a little cedar remains. |
| 10 | 6120 - Lowland Cedar | Poletimber Well | 6.1 | 100 | 141-170 | Lower ground than surrounding stand. Fairly open understory. Dense cedar. |
| 11 | 6112 - Lowland Aspen | Sawtimber Well | 12.5 | 83 | 81-110 | WB/A over cedar. Narrow strip between 2 younger aspen stands. Standing water in places, of transitional ground. Fair amount of blowdown. Wet portion of previous stand left off of harvest due to ground conditions. Agree with previous examiner, "may be best to leave for wildlife purposes. Great budding trees and good edge between young aspen and cedar stands." |
| 12 | 4130 - Aspen | Sapling Well | 19.9 | 21 | Immature | High ridge runs down the middle of this stand. Some semi-open areas. Steep drop-off from the road to the south. More balsam found on these steep parts. |
| 13 | 6112 - Lowland Aspen | Sapling Well | 13.1 | 21 | Immature | Some lowland, some upland...Aspen is 20'-30' tall. |
| 14 | 4140 - Other Upland Deciduous | Sawtimber Well | 2.2 | 80 | 141-170 | Stand is currently under contract as part of 45-110-10-01. |
| 15 | 6132 - Mixed Lowland Forest with Cedar | Poletimber Well | 61.6 | 94 | 81-110 | Variable stand depending where you look. Mainly WB over cedar. Transition ground. Some areas heavier to cedar. Very wet when site was visited. Smaller diameters still. Check this stand out next entry. |
| 16 | 6132 - Mixed Lowland Forest with Cedar | Poletimber Well | 8.9 | 96 | 111-140 | Very wet ground that was previously part of stand that is under contract. Left out of sale due to poorer timber and wet conditions. |
| 18 | 6122 - Black Spruce | Poletimber Well | 5.2 | 75 | 141-170 | Black spruce boggy stand. Small portion of stand extends to the west in adjacent compartment. |

| S t a n d | Sault Ste. Marie Mgt. Unit | | Report 7 – Forested Stands | | | Compartment: 141 Year of Entry: 2020 | General Comments: |
|-----------------------|--|-----------------|----------------------------|--------------|-------------|--|----------------------|
| | Level 4 Cover Type | Size Density | Acres | Stand Age | BA Range | | |
| 20 | 6111 - Lowland Balsam Poplar | Sapling Medium | 30.5 | 11 | Immature | Clearcut in 2006/2007. Cedar left. Regen is 10-20'tall. Some low, wet spots w/o regen. Low ridges as move further south. | |
| 22 | 4139 - Aspen, Mixed Deciduous | Sapling Well | 114.6 | 32 | Immature | Mainly transitional ground. Some areas wetter than others. RM sprouts browsed. | |
| 26 | 6117 - Lowland Deciduous, Mixed Coniferous | Sawtimber Well | 41.6 | 98 | 141-170 | Portion of the stand is under contract "Sevn Bridges Mix" 45-110-10-01. Remainder of stand that was left out of the sale is too wet and poorer timber. | |
| 29 | 4136 - Aspen, Mixed Conifer | Poletimber Well | 79.3 | 38 | 141-170 | Nice mixed stand of smaller diameters. Stand is buffer along Paquin Creek and has some steep areas. Has been harvested on either side of stand in past. | |
| 32 | 6120 - Lowland Cedar | Poletimber Well | 53.9 | 100 | 81-110 | Smaller, pretty dense cedar in spots. Wet with lots of seeps and areas of standing water. Overall smaller diameters, open areas have some tag alder. | |
| 33 | 4319 - Mixed Upland Forest | Sapling Medium | 4.6 | 39 | 51-80 | Old semi-opening filling over the years. Includes the creek chasm. | |
| 34 | 4130 - Aspen | Sapling Medium | 9.1 | 16 | Immature | Regen is 10-20' tall. Some semi-open areas. High ridge runs along southern edge. Stand extends into adjacent compartment to the north. Cut in 2002 on Airless Apen Sale. Regen is 10-20' variable. | |
| 35 | 42110 - Planted Red Pine | Sawtimber Well | 154.5 | 79 | 141-170 | Beautiful RP pole/ log stand! Thinned in 2003 in 2 sales separated by a creek (tributary to Paquin Creek). Creek buffer was left. West side of creek may have slightly larger diameter (12" vs. 10"). Variable understory present after last thinning. 1/4 corner cap between sections 31/32 is in east rut of road. | |
| 38 | 4130 - Aspen | Poletimber Well | 79.5 | 40 | 111-140 | Variable stand. Some areas with 75-100% canopy closure, but others are semi-open. Also includes edges of openings which have filled in. Part of stand was KG'd, while some openings had tordon treatment. RM sprouts heavily browsed. Stand is mixed with merchantable areas and non-merchantable areas. | |
| 40 | 6118 - Lowland Deciduous with Cedar | Sawtimber Well | 62.8 | 98 | 81-110 | Ranges from very wet to transitional ground. Sparse trees in places. Located below the steep bluff to the north. Small pockets of black ash (4"-6" dbh). Paquin Creek runs thru stand. Cannot access from the north due to steep drop off. | |
| 41 | 4130 - Aspen | Sapling Well | 90.0 | 39 | 111-140 | Small diameter stand of mixed aspen, cherry, maple. Poor quality brush in places. Some scattered white and red pine to north. Areas of openings scattered throughout. | |
| 47 | 4130 - Aspen | Sapling Well | 52.3 | 21 | Immature | This area was originally a RP/JP stand with some aspen clones. Rx burned in 1997 (C44-417) after cutting. Nice thick aspen regen in areas (20'-40' tall). It is part of a mosaic of aspen/semi-open area. MO was to be part aspen/part opening. And it is! | |





| | Level 4 Cover Type | Size Density | Acres | Stand Age | BA Range | General Comments: |
|----|--|--------------------|-------|--------------|-------------|--|
| 48 | 4311 - Pine, Aspen Mix | Poletimber Well | 18.7 | 26 | 141-170 | Aspen with pine overstory. Manage for pine in future with compartment 140 to the north. |
| 49 | 42110 - Planted Red Pine | Sapling Well | 35.1 | 20 | Immature | Includes some JP volunteers. Has had some sawfly damage. Rx burned in 1997 (C44-417); planted in 1998 (C44-418). Released by skidder in 1999. The roads used for harvesting and burning this piece were planted. |
| 50 | 4130 - Aspen | Sapling Well | 72.4 | 35 | 141-170 | Same as stand on north side of pipeline. This stand continues into compartment 142 to the south. |
| 54 | 4130 - Aspen | Sapling Well | 30.1 | 21 | Immature | This area was originally a RP/JP stand with some aspen clones. Rx burned in 1997 (C44-417) after cutting. Easterly edge/fingers were not burned. Nice aspen regen in areas (20'+ tall). It is part of a mosaic of aspen/semi-open area. MO was to be opening, but is part open/part aspen. |
| 56 | 4130 - Aspen | Poletimber Well | 69.8 | 44 | 141-170 | Nice large area of aspen mix. Majority of stand is pole sized with some spots that are smaller diameter. Includes small open areas. Some residual RP, WP and JP. |
| 58 | 4112 - Maple, Beech, Cherry Association | Sapling Well | 9.0 | 6 | 51-80 | Stand was cut in 2012 as part of Sunrise Hardwoods. Stand was shelterwooded leaving scattered canopy trees. Mixed brush regeneration. |
| 59 | 42110 - Planted Red Pine | Sapling Well | 37.6 | 6 | Immature | Planted in 2012. Released in 9/9/17. Continue to monitor for pests and release spray. |
| 60 | 4130 - Aspen | Sapling Well | 27.1 | 45 | 141-170 | More WP than adjacent stands. An occasional white spruce, large and small. WP minly in patches, but also scattered thru stand. Some cherry and beech. Good stand variety. |
| 62 | 4130 - Aspen | Sapling Well | 3.0 | 23 | Immature | Small stand adjacent to private land. Encompasses one bluff drop down to a very high bench before dropping off to Paquin Creek. |
| 63 | 4130 - Aspen | Sapling Well | 22.0 | 17 | Immature | Aspen 10' - 20' tall. WP left. Cut in 2001 "Airless Aspen" 45-031-00-01. |
| 64 | 4319 - Mixed Upland Forest | Sawtimber Well | 7.8 | 98 | 141-170 | Portion of steep ravine to Paquin Creek. Leave as buffer strip for Paquin Creek. |
| 65 | 4130 - Aspen | Sapling Well | 65.6 | 38 | 141-170 | Very mixed stand with alot of cherry and maple brush in places. Not quite large enough to be entirely merchantable. Will be one to look at for sure next entry. |
| 66 | 42110 - Planted Red Pine | Sapling Well | 32.0 | 23 | Immature | Burned in 1995 (FTP C44-398). Machine planted and sprayed with velpar in 1996 (C44-397). Nice plantation! Has had some sawfly damage. |



| | Level 4 Cover Type | Size Density | Acres | Stand Age | BA Range | General Comments: |
|----|--|----------------------|-------|--------------|-------------|---|
| 67 | 4130 - Aspen | Poletimber Well | 9.5 | 38 | 111-140 | Borederline merchatable pole stand of mixed aspen, maple, birch and some cherry. Some sparse areas. Treat in future with stand across the pipeline. |
| 68 | 4112 - Maple, Beech, Cherry Association | Sawtimber Well | 29.5 | 83 | 51-80 | Part of Black Book Hwd. Stand extends to the south to the pipeline. Thinned in 2006. Beech salvaged in 2014. BAsal area is low. Let develop for a few entry cycles. |
| 69 | 4130 - Aspen | Sapling Well | 25.3 | 23 | Immature | Nice stand of young aspen mix. |
| 70 | 4116 - Mixed N. Hardwood - Aspen | Sapling Well | 4.8 | 17 | Immature | Glass Jaw Pine. Cut in 2001. The original intentions were to replant to RP. This didn't happen on this side of the pipeline. Has a few RP, WP and JP volunteers. |
| 71 | 42260 - Natural Pine, Mixed Deciduous | Sawtimber Medium | 4.7 | 86 | 51-80 | A couple large limby parent WP present. Variable stand. West side of road is plantation. |
| 72 | 4112 - Maple, Beech, Cherry Association | Poletimber Medium | 11.1 | 100 | 51-80 | Thinned in 2002 as part of Airless Aspen. Pockets heavier to WP on south end. WP seedlings here, generally less than 1' tall. Beech has died back, but there is beech regen aplenty. Lower basal area, see where it goes in the future. |
| 74 | 4130 - Aspen | Poletimber Well | 4.0 | 38 | 141-170 | Aspen mix along Paquin Creek road. Some is merchantable, but majority of stand away from road is still smaller diameter. Check it out next entry. |
| 75 | 42110 - Planted Red Pine | Sapling Well | 62.9 | 21 | Immature | Bootleg Pine. Cut in 1995, burned in 1996 (FTP C44-403), planted (FTP C44-402) in 1996 (south half) and 1997 (north half). Released by skidder in 1999. |
| 76 | 42110 - Planted Red Pine | Sapling Well | 55.3 | 15 | Immature | Glass Jaw Pine. Cut in 2001, burned in 2002, planted in 2003 (FTP C44-519). Aerial release in 2005 (all except along Paquin Creek Road) and 2006 (along Paquin Creek Road). Aerial sprayed for RHPS in 2006. JP volunteers and mullen too. Some areas of mix regen within the plantation. Red Pine looks good in most places and has outcompeted the competition and ready to grow. |
| 77 | 4112 - Maple, Beech, Cherry Association | Sawtimber Well | 24.6 | 110 | 51-80 | Stand was cut in 2012 as part of Sunrise Hardwood. Stand contains a Walter's Research project Treatment. |
| 78 | 42111 - Planted Red Pine, Mixed Deciduous | Poletimber Well | 3.4 | 21 | 141-170 | Bootleg Pine. Cut in 1995, trenched and planted in 1997. Released by skidder in 1999. Good diverse plantation. Larger RP had been left (pole size). Good response from RP planting, but with mix of hwd saps too. Monitor for bugs. |



| Stand | Cover Type | Acres | Managed Site | General Comments: |
|-------|----------------------------------|-------|--------------|---|
| 4 | 622 - Lowland Shrub | 3.2 | No | |
| 8 | 629 - Mixed non-forested wetland | 10.6 | No | |
| 17 | 310 - Herbaceous Openland | 7.4 | No | This is the Great Lakes Gas pipeline ROW, from the gate west. Lots of seeps crossing the pipeline. Too difficult to freeze in winter. Grass and areas of brush. Very wet. |
| 19 | 629 - Mixed non-forested wetland | 10.9 | No | |
| 21 | 629 - Mixed non-forested wetland | 1.6 | No | |
| 23 | 629 - Mixed non-forested wetland | 0.2 | No | |
| 25 | 629 - Mixed non-forested wetland | 1.4 | No | |
| 27 | 629 - Mixed non-forested wetland | 4.4 | No | |
| 28 | 330 - Low-Density Trees | 4.1 | No | |
| 30 | 629 - Mixed non-forested wetland | 0.7 | No | |
| 36 | 622 - Lowland Shrub | 2.5 | No | |
| 42 | 310 - Herbaceous Openland | 15.8 | No | |
| 44 | 310 - Herbaceous Openland | 8.9 | No | |
| 52 | 310 - Herbaceous Openland | 2.1 | No | |
| 61 | 310 - Herbaceous Openland | 29.0 | No | |
| 79 | 310 - Herbaceous Openland | 5.4 | No | |