

Compartment Review Presentation

Gwinn Forest Management Unit

Compartment 32075 Entry Year 2018 Acreage: 1,912

County Marquette

Management Area: Dead Horse Moraines

Revision Date: 2016-08-08

Stand Examiner: Kevin LaBumbard

Legal Description:

T43N, R25W, Sections 10, 11, 12

Identified Planning Goals:

Improve the quality of the Northern Hardwoods stands through selective management while maintaining species diversity, (including the conifer content) and den trees for wildlife. Additional goals are to provide age-class distribution of Aspen by harvesting selected stands. Considerations for species diversity, coarse woody debris, and BMP's will be included with every harvest plan.

Soil and topography:

Terrain is relatively level to sloping with soils mostly well drained loams and associated organic soils, with a small amount of well drained loams and somewhat excessively drained sands. Major soil series include Onaway, Carbondale, Tacoosh, and Angelica with some Trenary, Kalkaska, Munising and Keweenaw.

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

This compartment lies within a large block of state land with only a couple of private ownerships along the northern border.

Unique Natural Features:

Archeological, Historical, and Cultural Features:

No concerns.

Special Management Designations or Considerations:

Watershed and Fisheries Considerations:

This compartment contains the Escanaba River and Sawmill Creek, which are both designated Type 1 trout streams greater than 50' width. Sawmill Creek serves as tributary to the Escanaba River. For all riparian areas, Best Management Practices should be followed to reduce erosion into waterbodies.

Wildlife Habitat Considerations:

Compartment 75 is found within the Dead Horse Moraines Management Area; on Ground Moraines in southeastern Marquette, southwestern Alger, and northwestern Delta Counties. The dominant Natural Communities are poor conifer swamps, mesic northern forests, and dry northern forests. Major forest cover types include Northern Hardwood, Aspen, and Mixed Lowland Conifer. This management area contains a large proportion of hardwood forest which regenerates well partly due to the heavier snow cover and lower deer numbers than the southern portion of this Management Area. The most significant wildlife management issues in the management area are: mast (hard and soft); mature forest (upland deciduous, especially aspen and mixed forest with little understory); course woody debris, early successional forest, and deer wintering complexes.

The following have been identified as featured species for the Dead Horse Moraines Management Area: black bear, pileated woodpecker, ruffed grouse, and white-tailed deer.

Mineral Resource and Development Concerns and/or Restrictions

Sections 10 - 12, T43N-R25W, Marquette County. Surface sediments consist of an end moraine of medium-textured till and peat and muck. There is insufficient data to determine the glacial drift thickness. The Ordovician Black River and Prairie du Chien Groups subcrop below the glacial drift. The Black River is quarried for stone in the UP and the PdC could be used for stone. There are no gravel pits located in this area, but there should be potential on the upland areas.

Abandoned iron mines are located nine miles to the north. This area was not previously leased for metallic exploration. There is no economic oil and gas production in the UP.

Vehicle Access:

Vehicle access to the compartment is very good via two Dept. maintained roads: the Escanaba River Road and Little West Road. There are also a few 2 tracks which branch of from these main roads.

Survey Needs:

None at this time.

Recreational Facilities and Opportunities:

Compartment 75 provides for several recreational activities. This area is heavily hunted for ruffed grouse, woodcock and whitetail deer. Canoeing and fishing along the Escanaba is a popular activity, with additional fishing in Sawmill Creek. Camping along the river is also common, especially at the confluence of the Sawmill and Escanaba River.

Fire Protection:

This compartment has a medium risk for wildfire.

Additional Compartment Information:

The following reports from the Inventory are attached:

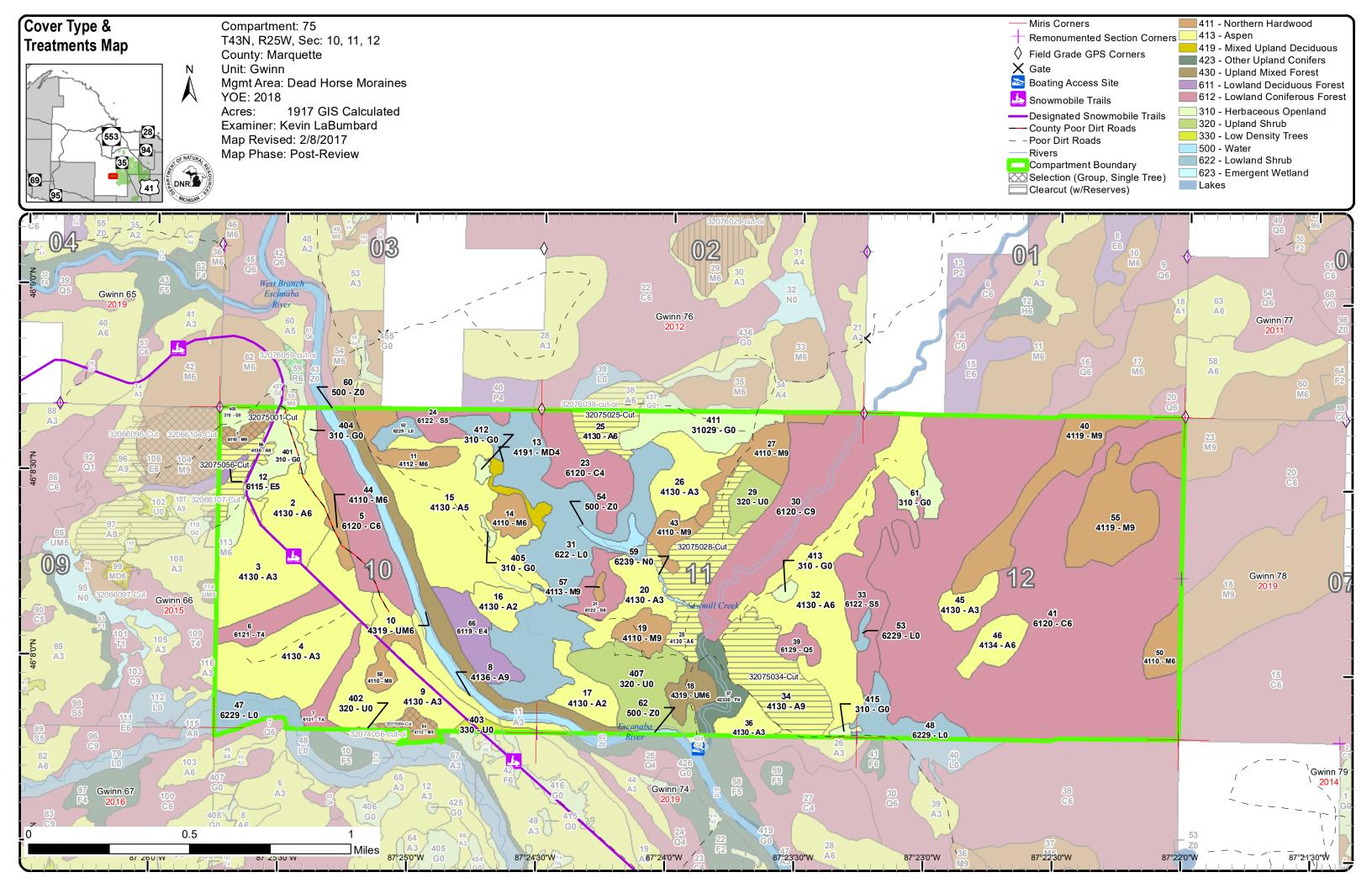
Total Acres by Cover Type and Age Class Cover Type by Harvest Method Proposed Treatments - No Limiting Factors Proposed Treatments – With Limiting Factors Stand Details (Forested and Nonforested) **Dedicated and Proposed Special Conservation Areas Site Condition Details**

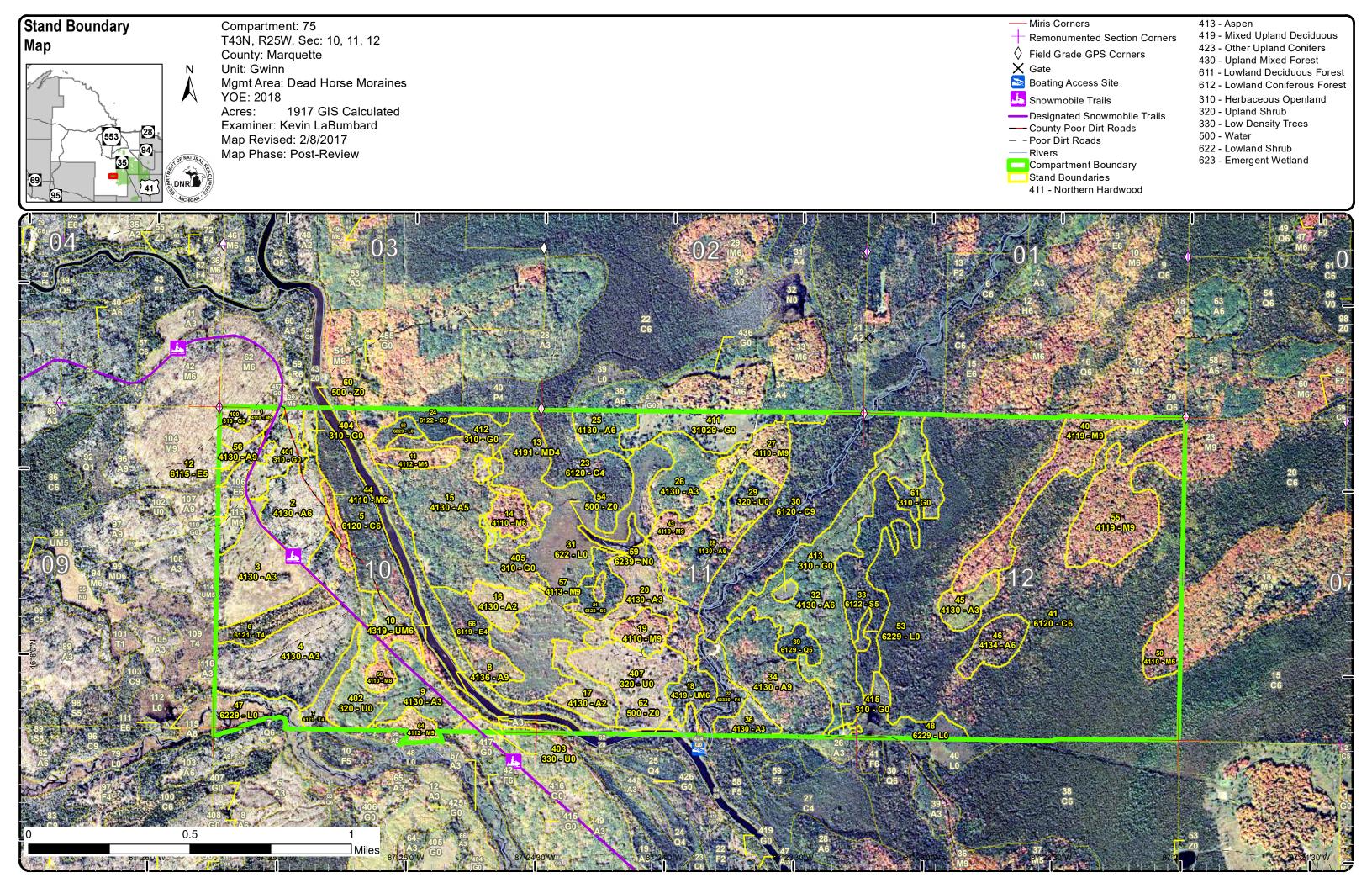
The following information is displayed, where pertinent, on the attached compartment maps:

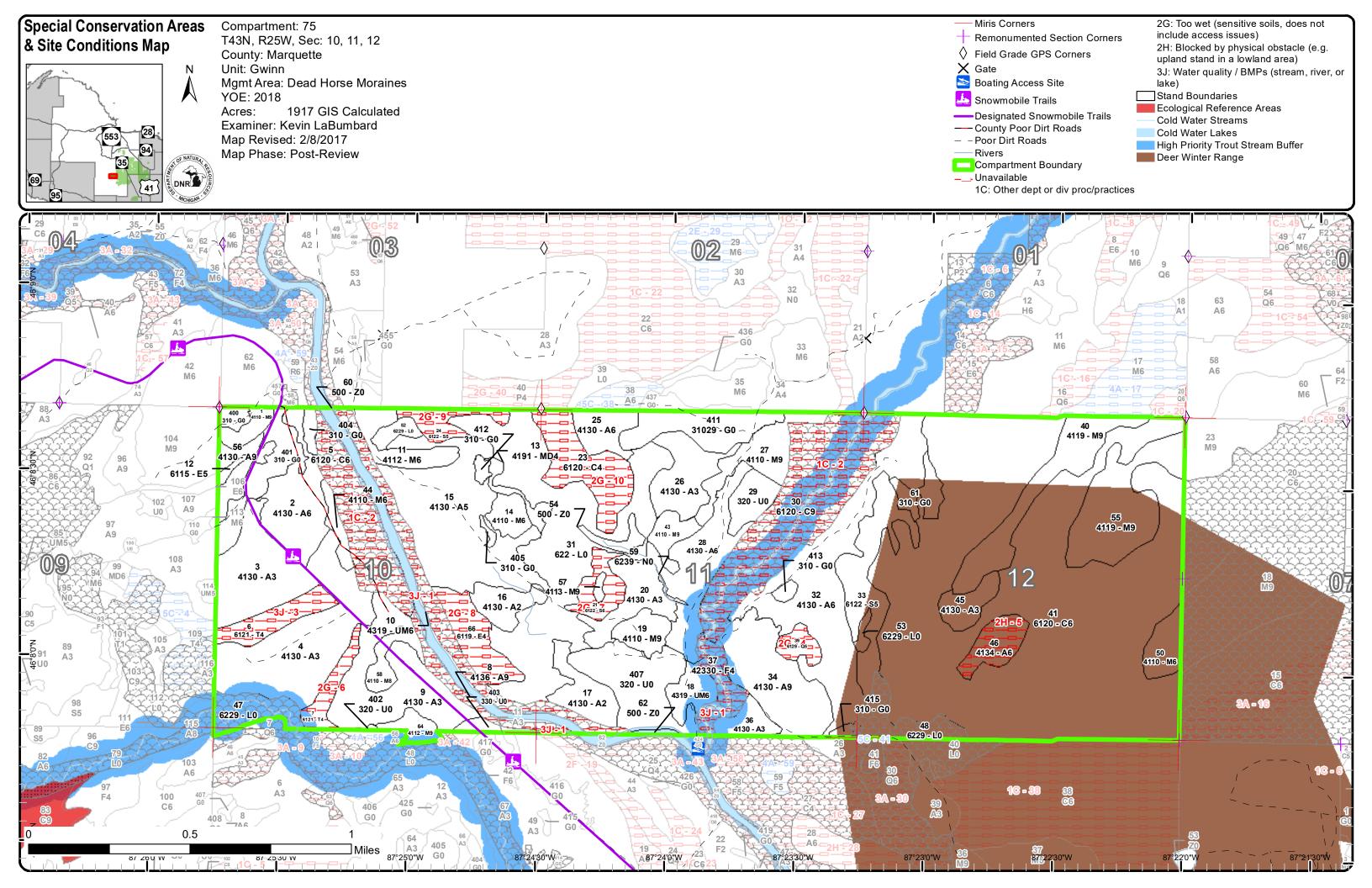
Base feature information, stand boundaries, cover types, and numbers

Proposed treatments Site condition boundaries

Details on the road access system







Gwinn Mgt. Unit

Compartment 75 Year of Entry 2018

Kevin LaBumbard : Examiner

Age Class

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|------------------------|-------|--|------|--|--|--------|--|------------------|-----|----|-------|------|------|---|---|-------|---|--------|---------|
| Aspen | 0 | 94 | 99 | 158 | 0 | 118 | 112 | 0 | 15 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 607 |
| Cedar | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 34 | 94 | 469 | 0 | 0 | 0 | 0 | 0 | 597 |
| Herbaceous Openland | 72 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 72 |
| Lowland Conifers | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 |
| Lowland Deciduous | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 21 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 23 |
| Lowland Shrub | 165 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 165 |
| Lowland Spruce/Fir | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 11 | 38 | 13 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 62 |
| Marsh | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Mixed Upland Deciduous | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| Northern Hardwood | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 11 | 0 | 0 | 0 | 0 | 9 | 178 | 200 |
| Tamarack | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 27 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 27 |
| Upland Mixed Forest | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 11 | 0 | 34 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 45 |
| Upland Shrub | 53 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 53 |
| Upland Spruce/Fir | 0 | 0 | 0 | 0 | 0 | 0 | 16 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 16 |
| Water | 33 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 33 |
| Total | 324 | 94 | 99 | 158 | 0 | 118 | 128 | 30 | 82 | 87 | 34 | 105 | 469 | 0 | 0 | 0 | 9 | 178 | 1914 |
| | | | | | | | | | | | | | | | | 1 | | | |



Report 2 – Treatment Summary

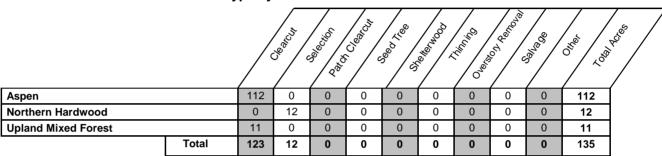
Gwinn Mgt. Unit Year of Entry: 2018

Acres of Harvest

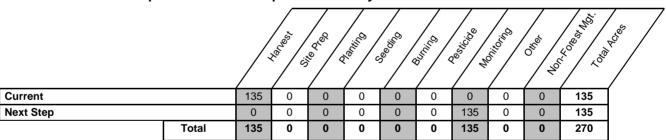
Compartment 75
Total Compartment Acres: 1,912

Commercial Harvest - 135 Harvests with Site Condition - 0 Next Step Harvest - 0 Habitat Cut - 0

Cover Type by Harvest Method



Proposed and Next Step Treatments by Method



Compartment: 75

Year of Entry: 2018

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| 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 | 32075001-Cut | 7.0 4 | 110 - Sugar Maple Association | Sawtimber Well | 100 | 111- 140 | Harvest | Single Tree Selection | 411 - Northern Hardwood | Uneven- Aged | Draft Field Boundary |

Site Condition: Habitat Cut: No

Prescription Individual tree selection to target BA of 80. Favor best tree in place, retain minor species component.

Specs:

Monitoring, Natural Regen (Re-Inventory) Next Step

Treatments:

Acceptable any hardwoods other than ironwood.

Regen:

Other 2016- Leeks, occasional white spruce and upland cedar. Good quality hardwoods. Very little regeneration. Dry summer harvest preferred to

Comment: avoid snowmobile conflicts.

Proposed Start Date: 10/01/2017

18 32075018-Cut 11.1 4319 - Mixed Poletimber 63 51-80 Harvest Clearcut with 413 - Aspen Even-Aged Draft Proposal Retention

Upland Forest Well

Site Condition: **Habitat Cut: No**

Prescription Harvest aspen, fir, spruce retaining cherry, white pine, red pine.

Specs:

Monitoring, Natural Regen (Re-Inventory) Next Step

Treatments:

Acceptable Aspen, fir, spruce, cherry, white or red pine.

Regen:

Other SBW-Chp 7 TJS

Comment:

Proposed Start Date: 10/01/2017

32075025-Cut Draft Field 13.7 4130 - Aspen Poletimber 52 81-110 Clearcut with 413 - Aspen Harvest Even-Aged Well Retention Boundary

Habitat Cut: No Site Condition:

Prescription Ready for harvest. Leave cherry and retention island . Stand 38 across compartment line is the same, will be ready for harvest too.

Specs:

Monitoring, Natural Regen (Re-Inventory) Next Step

Treatments:

Acceptable aspen

Regen:

Other Retain should include large aspen - pileated woodpecker/Grouse (State Game Fund)

Comment:

Proposed Start Date: 10/01/2017

81-110 32075028-Cut 39.6 4130 - Aspen Poletimber 52 Clearcut with 413 - Aspen Draft Field Harvest Even-Aged Well Retention Boundary

Habitat Cut: No Site Condition:

Prescription Final harvest retaining the cherry, cedar, wp, hemlock. A good summer sale

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable aspen

Regen:

Retain should include large aspen – pileated woodpecker/Grouse (State Game Fund) Other

Comment:

Proposed Start Date: 10/01/2017 Gwinn Mgt. Unit Report 3 -- Treatments

Gwinn Mgt. U S Compartment: 75 Year of Entry: 2018

| DNR DNR DNR | 1 |
|-------------|---|
| Annroval | |

| 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 |
|-------------|-------------------|-------|--------------------|-------------------|--------------|-------------|-------------------|----------------------------|-------------------------|------------------|-------------------------|
| 34 | 32075034-Cut | 46.8 | 4130 - Aspen | Sawtimber Well | 54 | 111- 140 | Harvest | Clearcut with Retention | 413 - Aspen | Even-Aged | Draft Field Boundary |

Habitat Cut: No Site Condition:

Prescription Final harvest retaining the cherry, cedar, wp, hemlock. A good summer sale

Specs:

Next Step Monitoring, Natural Regen (Intermediate)

Treatments:

Acceptable aspen

Regen: Other

Retain should include large aspen – pileated woodpecker/Grouse (State Game Fund)

Comment:

Proposed Start Date: 10/01/2017

56 32075056-Cut 11.9 4130 - Aspen Sawtimber 58 81-110 Harvest Clearcut with 413 - Aspen Even-Aged Draft Field Retention Boundary

Habitat Cut: No Site Condition:

Prescription Final harvest with reserves. 100' buffer along swale.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable aspen

Regen:

OPIC - FMD: 3-4 stick aspen with mixed hardwoods over beaked hazel. The hardwoods are sugar maple, soft maple, cherry. Stand contains a

Comment: small black ash swale runniing northeast. More fir on the south end. Summer harvest preferred to avoid snowmobile conflicts.

Retain should include large aspen - pileated woodpecker/Grouse (State Game Fund)

Proposed Start Date: 10/01/2017

32075064-Cut Draft Field 5.1 4112 - Maple, Sawtimber 100 111-Harvest Single Tree 411 - Northern Uneven-Beech, Cherry Well 140 Selection Hardwood Aged Boundary Association

Habitat Cut: No Site Condition:

Prescription -Fair quality hardwoods with excellent regeneration. Schedule treatment with stand 11 of compartment 76. Mark to 80 residual BA favoring

Specs: cherry, basswood.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable any hardwoods other than ironwood

Regen:

Other Comment:

Proposed Start Date: 10/01/2017

Total Treatment Acreage Proposed:

135.2

Compartment: 75

Gwinn Mgt. Unit

Kevin LaBumbard : Examiner Year of Entry: 2018

| Availa | ability for | Managemer | nt | | | | | |
|--------|-------------|----------------|---------------|------------------------|--------|---------|-------|---------|
| Total | Acres | Acres Avail | Acres | | Domina | nt Site | e Con | ditions |
| Acres | Available | With Condition | Not Available | | 1C | 2G | 2H | 3J |
| 607 | 581 | 0 | 26 | Aspen | | | 15 | 11 |
| 596 | 426 | 0 | 170 | Cedar | 137 | 34 | | |
| 72 | 72 | 0 | 0 | Herbaceous Openland | | | | |
| 7 | 0 | 0 | 7 | Lowland Conifers | | 7 | | |
| 23 | 2 | 0 | 21 | Lowland Deciduous | | 21 | | |
| 165 | 165 | 0 | 0 | Lowland Shrub | | | | |
| 61 | 37 | 0 | 24 | Lowland Spruce/Fir | | 24 | | |
| 1 | 1 | 0 | 0 | Marsh | | | | |
| 6 | 6 | 0 | 0 | Mixed Upland Deciduous | | | | |
| 199 | 199 | 0 | 0 | Northern Hardwood | | | | |
| 27 | 0 | 0 | 27 | Tamarack | | 11 | | 16 |
| 45 | 11 | 0 | 34 | Upland Mixed Forest | | | | 34 |
| 53 | 53 | 0 | 0 | Upland Shrub | | | | |
| 16 | 0 | 0 | 16 | Upland Spruce/Fir | | | | 16 |
| 33 | 33 | 0 | 0 | Water | | | | 0 |
| 1,912 | 1,586 | | 326 | Total Forested Acres | 137 | 97 | 15 | 78 |
| | 83% | | 17% | 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) | 62 | Unspecified | Unspecified | Unspecified | Unspecified |
| | Comments: Escanaba River and | d Sawmill Creek riparian prote | ection. | | | | |
| | | | | | | | |
| 2 | Unavailable | 1C: Other dept or div proc/practices | 137 | 3J: Water quality / BMPs (stream, river, or lake) | Unspecified | Unspecified | Unspecified |

Report 4 – Site Conditions

Gwinn Mgt. Unit Kevin LaBumbard : Examiner

Compartment: 75
Year of Entry: 2018

| 3 | Unavailable | 3J: Water quality / BMPs (stream, river, or lake) | 17 | Unspecified | Unspecified | Unspecified | Unspecified |
|---|-------------|--|----|-------------|-------------|-------------|-------------|
| | Comments: | | | | | | |
| 4 | Unavailable | 2G: Too wet (sensitive soils, does not include access issues) | 7 | Unspecified | Unspecified | Unspecified | Unspecified |
| | Comments: | | | | | | |
| 5 | Unavailable | 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area) | 15 | Unspecified | Unspecified | Unspecified | Unspecified |
| | Comments: | | | | | | |
| 6 | Unavailable | 2G: Too wet (sensitive soils, does not include access issues) | 11 | Unspecified | Unspecified | Unspecified | Unspecified |
| | Comments: | | | | | | |
| 7 | Unavailable | 2G: Too wet (sensitive soils, does not include access issues) | 13 | Unspecified | Unspecified | Unspecified | Unspecified |
| | Comments: | | | | | | |
| 8 | Unavailable | 2G: Too wet (sensitive soils, does not include access issues) | 21 | Unspecified | Unspecified | Unspecified | Unspecified |
| | Comments: | | | | | | |

Report 4 - Site Conditions

Gwinn Mgt. Unit

Compartment: 75

Year of Entry: 2018

| | Kevin LaBun | nbard : Examiner | | | | Year of Entry: 20 | 18 |
|----|-------------|---|----|--|-------------|-------------------|-------------|
| 9 | Unavailable | 2G: Too wet (sensitive soils, does not include access issues) | 11 | Unspecified | Unspecified | Unspecified | Unspecified |
| C | comments: | | | | | | |
| 10 | Unavailable | 2G: Too wet (sensitive soils, does not include access issues) | 34 | 2D: Portable Bridge Needed (Dept. bridge will be adequate) | Unspecified | Unspecified | Unspecified |
| C | comments: | | | | | | |

Mgt. Unit

Compartment: #Type! Year of Entry:

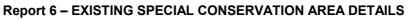


Report 5 - PROPOSED SPECIAL CONSERVATION AREA* (SCA) DETAILS

* 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 | | | | |
| | | | | |

Gwinn Mgt. Unit Compartment: 75
Year of Entry 2018





* 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.

| Conservati Area | on Type | Description | ERA = Ecological Reference Area HCVA = High Conservation Value Area SCA = Special Conservation Area |
|--------------------|----------------------|---|--|
| SCA | Cold Water Lake | A coldwater lake has temperature and dissolved oxygen conditions stocked trout populations and those of other coldwater fish specific conditions for coldwater fishes may occur in Michigan lakes if the groundwater inflows, or are located in colder (northern) areas of Director's action and designated as trout resources by Fisheries | ies to persist from year to year. Suitable ey are relatively deep, have substantial the state. Such lakes are established by |
| SCA | Cold Water Stream | A coldwater stream has temperature and dissolved oxygen cond stocked trout populations and those of other coldwater fish specified year to year. Coldwater streams in Michigan typically provide the contributions of groundwater to their stream flows. Such streams designated as trout resources by Fisheries Order 210. | ies (e.g., slimy sculpin) to persist from ese conditions due to substantial |
| SCA | Habitat Area | An area that provide some specific need for the life cycle of wildle and Waterfowl Production Areas, deer wintering complexes in lo openings and savannas. Habitat areas are distinct from critical hendangered or threatened species (such as Kirtland's warbler or general in nature, are not primarily associated with threatened or covered by species recovery plans that are developed in cooperations. | wland conifer communities, grassland abitat designated for recovery of piping plover areas) in that they are more rendangered species, and are not |
| SCA | Riparian Area | A transitional area between aquatic and terrestrial ecosystems in influences the aquatic ecosystem and vice-versa. Because of the streams and open water wetlands, riparian areas harbor a high communities are ecologically and socially significant in their effe as aesthetics, habitat, bank stability, timber production, and their | e unique conditions adjacent to lakes, diversity of plants and wildlife. Riparian cts on water quality and quantity, as well |

| S t | Gwinr | n Mgt. Unit | | Report 7 | Forested | Stands Compartment: 75 Year of Entry: 2018 |
|-------------|--|----------------------|-------|--------------|----------------------------|---|
| a n d | Level 4 Cover Type | Size Density | Acres | Stand Age | BA Range | General Comments: |
| 1 | 4110 - Sugar Maple Association | Sawtimber Well | 7.0 | 100 | 111-140 | OPIC - FMD: Widely spaced large trees. Has just transitioned to M9. Maple regeneration is virtually non-existant. 2016- Leeks, occasional wite spruce and upland cedar. Good quality hardwoods. Very little regeneration. |
| 2 | 4130 - Aspen | Poletimber Well | 33.7 | 47 | 81-110 | OPIC - FMD: Mostly well-stocked, 3-4 stick aspen over occasional fir and raspberry. A few sparse areas due to hypoxylon canker. 2016-Aspen is large, ready to harvest. |
| 3 | 4130 - Aspen | Sapling Well | 42.3 | 7 | Immature | OPIC - FMD: This is almost a pure aspen stand with maybe 10 BA of fir, white spruce, red maple and cherry. ***Stand harvested as "West Is Best" # 011-08-01 (Unit 1,2) August - October, 2009. This was a chipped sale and large landing was created along Little West Road. Stand also contains a 1 acre exclusion/retention patch. 2016-Chip pile still hasn't regenerated. |
| 4 | 4130 - Aspen | Sapling Well | 70.0 | 28 | Immature | OPIC - FMD: A3 2-4" dbh, 20-25' tall. 2016-Almost pure aspen, starting to transition to poles. |
| 5 | 6120 - Lowland Cedar | Poletimber Well | 42.6 | 119 | 141-170 | OPIC - FMD: SCA-Nicer than average cedar along the Escanaba River. Retain as biodiversity maintenance area to protect valuable riparian corridor as well as provide thermal cover for winter wildlife. |
| 6 | 6121 - Tamarack | Poletimber Poor | 16.5 | 79 | 1-50 | OPIC - FMD: Lowland conifers over willow and alder. |
| 7 | 6121 - Tamarack | Poletimber Poor | 10.8 | 79 | 1-50 | OPIC - FMD: Lowland conifers over willow and alder. |
| 8 | 4136 - Aspen, Mixed Conifer | Sawtimber Well | 11.5 | 82 | 51-80 | OPIC - FMD: SCA-Retain as biodiversity maintenance zone to provide riparian buffer along the Escanaba River. |
| 9 | 4130 - Aspen | Sapling Well | 52.3 | 17 | Immature | OPIC - FMD: Good regeneratiion, 8-12' tall. Cut in 2000 under permit #19-98-01. 2016-Aspen 15-25' tall. |
| 10 | 4319 - Mixed Upland Forest | Poletimber Well | 34.3 | 87 | 51-80 | OPIC - FMD: SCA-Mixed aspen, spruce/fir and red maple along the Escanaba River. Retain as biodiversity maintenance area to protect riparian zone. This stand also receives regular recreational use from canoe campers. 2016-old aspen, snapped off bf, low quality M. |
| 11 | 4112 - Maple, Beech, Cherry Association | Poletimber Well | 15.3 | 180 | 81-110 | OPIC - FMD: Very poor site. Stand consist of low quality evenaged soft maple with a large percentage of twins and clumps. Cut with stand 12 when stand 12 is ready. 2016-see above. Not worth cutting at this time. Most of m is smaller. Contains small opening, north end. |
| 12 | 6115 - Lowland Ash | Poletimber Medium | 1.6 | 61 | 81-110 | Black ash swale, standing water. A few large aspen on the edge. |

| S t | Gwinr | Gwinn Mgt. Unit | | | Forested | Stands Compartment: 75 Year of Entry: 2018 |
|-------------|---|----------------------|-------|--------------|----------------------------|---|
| a n d | Level 4 Cover Type | Size Density | Acres | Stand Age | BA Range | General Comments: |
| 13 | 4191 - Mixed Upland Deciduous with Conifer | Poletimber Poor | 5.7 | 69 | 1-50 | OPIC - FMD: Blowdown area. Most of the aspen is down, but a few remain standing with scattered sugar maple poles. Regeneration is a mix of 4-8' sugar maple, soft maple, and aspen over hazel. 2016-Extemely low quality hardwoods, low stocking, very wet. Blends into an L type. |
| 14 | 4110 - Sugar Maple Association | Poletimber Well | 8.7 | 180 | 81-110 | OPIC - FMD: Fairly decent hardwoods growing on a small knob. This stand was scheduled, marked, and sold to Bruce Brown for cutting 10 years ago as part of a bigger sale. It was never cut and most of the marked trees still retain visable orange paint. The stand will have to be remarked in yellow. Two illegal blinds overlooking a bear baiting site are located on the north slope of the stand. 2010-Cut by K&K winter of 2010 under contract # 010-08-01. |
| 15 | 4130 - Aspen | Poletimber Medium | 84.1 | 45 | 51-80 | OPIC - FMD: Stand has just transitioned into a pole stand. Aspen dbh is running 4-7", 1-2 sticks tall. Abundant hazel in the understory. A few alder swales are located within the stand. 2016-stand contains old grass openings, some blowdown in areas. Spruce budworm present. Retain some smaller white birch, rp, and larger crowned hardwoods. |
| 16 | 4130 - Aspen | Sapling Medium | 12.8 | 6 | Immature | 2016-trace residual cherry. Cut February of 2010 under contract #010-08-01. Aspen 10-15' tall. |
| 17 | 4130 - Aspen | Sapling Medium | 17.2 | 6 | Immature | OPIC - FMD: U is a mix of willow, dogwood, and hazel. Occasional fir and spruce scattered throughout the stand. 99 is a mix of cherry and soft maple. Stand will hold 10 years easily if needed. 2010-Cut by K&K winter of 2010 under contract # 010-08-01. |
| 18 | 4319 - Mixed Upland Forest | Poletimber Well | 11.1 | 63 | 51-80 | OPIC - FMD: A6 2-3 stick aspen surrounded by a large grass opening. Stand is located near a popular fishing/camping site. 2016-Spruce budworm present in the stand. Harvest aspen, fir, spruce retaining cherry, white pine, red pine. |
| 19 | 4110 - Sugar Maple Association | Sawtimber Well | 11.1 | 100 | 81-110 | OPIC - FMD: Thinned in 2000 by Bruce Brown under permit #20- 98-01. 2016-little regeneration noted. |
| 20 | 4130 - Aspen | Sapling Well | 21.6 | 6 | Immature | OPIC - FMD: Stand has areas of blowdown and heavy beaver activity. The west portion is transitioning to low quality hardwoods. 2010-Cut by K&K winter of 2010 under contract # 010-08-01. |
| 21 | 6122 - Black Spruce | Poletimber Well | 12.9 | 83 | 51-80 | OPIC - FMD: Black spruce poles 5-7" dbh over smaller medium stocked spruce. Quite wet. |
| 23 | 6120 - Lowland Cedar | Poletimber Poor | 33.7 | 97 | 1-50 | OPIC - FMD: CUT 1989, #28-88-1 |
| 24 | 6122 - Black Spruce | Poletimber Medium | 10.9 | 67 | 1-50 | OPIC - FMD: 1-2 stick black spruce with black spruce understory |

| S | Gwinn Mgt. Unit | | | Report 7 | – Forested | Stands Compartment: 75 Year of Entry: 2018 |
|------------------|--|----------------------|-------|--------------|-------------|---|
| t a n d | Level 4 Cover Type | Size Density | Acres | Stand Age | BA Range | General Comments: |
| 25 | 4130 - Aspen | Poletimber Well | 13.7 | 52 | 81-110 | OPIC - FMD: This stand is almost pure aspen, with poles 4-5 sticks tall, and 8-10" dbh. Fairly heavy hazel brush in the understory and an occasional black cherry pole can be found scattered about. |
| 26 | 4130 - Aspen | Sapling Well | 25.3 | 18 | Immature | OPIC - FMD: Cut under permit 021-98-01 in 1999. Aspen is doing very well, 1-2" dbh and 10-15' tall. |
| 27 | 4110 - Sugar Maple Association | Sawtimber Well | 22.4 | 100 | 81-110 | OPIC - FMD: Cut under permit 21-98-01 in 1999. Hardwood appears to be growing well. |
| 28 | 4130 - Aspen | Poletimber Well | 39.6 | 52 | 81-110 | OPIC - FMD: 3-5 stick aspen with spruce and fir. Scattered cherry poles. Understory is comprised of fir and hazel. |
| 30 | 6120 - Lowland Cedar | Sawtimber Well | 94.0 | 102 | 81-110 | OPIC - FMD: SCA-Swamp conifers along Sawmill Creek. Retain as biodiversity maintenance area to protect the riparian values along the Sawmill, and provide for deer yard. |
| 32 | 4130 - Aspen | Poletimber Well | 88.2 | 28 | Immature | OPIC - FMD: Mostly well-stocked 2-4" aspen 15-25' tall. Fir understory along stand edge. 2016-Stand is just transitioning to a pole stand with a 3-6" dbh range. |
| 33 | 6122 - Black Spruce | Poletimber Medium | 37.5 | 78 | 51-80 | OPIC - FMD: Most black spruce with cedar. Very wet. |
| 34 | 4130 - Aspen | Sawtimber Well | 46.8 | 54 | 111-140 | OPIC - FMD: 3-4 stick healthy aspen with spruce and fir. 2016-6-7 stick aspen over 3 stick fir. Fir has budworm. Larger spruce north. A few upland cedar southeast. Stand contains a small "rise" east side within 3 chains of the Esc. River Road, with red maple, cherry, and aspen sawtimber sized trees. Perfect retention patch. |
| 36 | 4130 - Aspen | Sapling Well | 9.7 | 17 | Immature | OPIC - FMD: Cut by Deshambo under midway logging permit #20-98-01 in 2000. Mostly well stocked. |
| 37 | 42330 - Upland Fir | Poletimber Poor | 15.6 | 53 | 1-50 | OPIC - FMD: SCA-A mixed stand of mostly fir, aspen, and soft maple along sawmill creek. Retain as biodiversity maintenance area to protect the riparian zone. |
| 39 | 6129 - Mixed Coniferous Lowland Forest | Poletimber Medium | 7.3 | 80 | 1-50 | OPIC - FMD: Fairly small stand of small diameter cedar and black spruce. Wet. |
| 40 | 4119 - Mixed Northern Hardwoods | Sawtimber Well | 37.6 | 100 | 81-110 | OPIC - FMD: Cut in 2003-4 under permit # 026-01-01 2016- Stand is a mix of sugar, red maples, basswood, y. birch. |
| 41 | 6120 - Lowland Cedar | Poletimber Well | 426.1 | 110 | 81-110 | OPIC - FMD: C6C7Q4, nice cedar swamp. Regeneration is a mix of fir, cedar, and alder. |
| 43 | 4110 - Sugar Maple Association | Sawtimber Well | 9.4 | 100 | 81-110 | OPIC - FMD: Cut under permit 21-98-01 in 1999. Hardwood appears to be growing well. Multiple vernal ponds and drainages in this stand make it inoperable under our current guidelines. |

| S t | Gwinn | Gwinn Mgt. Unit | | | – Forested | Stands Compartment: 75 Year of Entry: 2018 |
|-------------|--|---------------------|-------|--------------|-------------|---|
| a n d | Level 4 Cover Type | Size Density | Acres | Stand Age | BA Range | General Comments: |
| 44 | 4110 - Sugar Maple Association | Poletimber Well | 6.2 | 100 | 81-110 | OPIC - FMD: Narrow hardwoood finger with A6 to the west with a steep drop to a cedar stand east. Occasional yellow birch and scattered large den trees. The further north in the stand, the poorer the quality. Retain all yellow birch. ***Stand harvested as "West Is Best" #011-08-01 (Unit 3) - cut October, 2009. 2016-no regen from previous harvest. |
| 45 | 4130 - Aspen | Sapling Well | 11.6 | 13 | Immature | OPIC - FMD: Cut in 2004 under permit # 026-01-01 |
| 46 | 4134 - Aspen, Spruce/Fir | Poletimber Well | 14.5 | 76 | 51-80 | OPIC - FMD: A6A5 DEAD FIR AREAS. Data from 1996. High water prevented stand examiner from reaching the stand. |
| 50 | 4110 - Sugar Maple Association | Poletimber Well | 12.6 | 100 | 51-80 | OPIC - FMD: M6, 3-6"DBH, SUN SCALD 10%, CUT W/STD IN COMPT. 78. 2006-Poor access prevented stand examiner from reaching the stand. 2016-Same. |
| 55 | 4119 - Mixed Northern Hardwoods | Sawtimber Well | 50.9 | 100 | 51-80 | OPIC - FMD: Cut under permit # 026-01-01 in 2004. 2016-stand is a mix of sugar and red maple, basswood, yellow birch. |
| 56 | 4130 - Aspen | Sawtimber Well | 11.9 | 58 | 81-110 | OPIC - FMD: 3-4 stick aspen with mixed hardwoods over beaked hazel. The hardwoods are sugar maple, soft maple, cherry. Stand contains a small black ash swale runniing northeast. More fir on the south end. |
| 57 | 4113 - R.Maple, Conifer | Sawtimber Well | 1.5 | 71 | 51-80 | OPIC - FMD: Narrow sandy ridge surrounded by low black spruce. Formerly an aspen stand, most of the aspen is dead and down and it is now a poor quality even aged soft maple stand. North end has a Ford Model A body. |
| 58 | 4110 - Sugar Maple Association | Sawtimber Medium | 9.3 | 100 | 51-80 | OPIC - FMD: Thinned in 2001 under permit #19-98-01. 2016- Poor quality sugar maple and cherry. Maple regen in the larger gaps browsed but above the deer now. |
| 64 | 4112 - Maple, Beech, Cherry Association | Sawtimber Well | 7.4 | 100 | 111-140 | OPIC - FMD: Good regeneratiion, 8-12' tall. Cut in 2000 under permit #19-98-01. 2016-Fair quality hardwoods with excellent regeneration. Schedule treatment with stand 11 of compartment 76. |
| 66 | 6119 - Mixed Lowland Deciduous Forest | Poletimber Poor | 21.3 | 82 | 1-50 | OPIC - FMD: White birch poles and a few aspen with scattered black spruce over tag alder. Very wet site. 2016-LF too wet. |

Compartment: 75 Year of Entry: 2018



| Stand | Cover Type | Acres | Managed Site | General Comments: |
|-------|-------------------------------|-------|-----------------|--|
| 29 | 320 - Upland Shrub | 12.1 | No | OPIC - FMD: This stand consists of cherry, raspberry, fir, grass and scattered 8' - 15' tall aspen clones. |
| 31 | 622 - Lowland Shrub | 121.9 | No | OPIC - FMD: Tag alder with small black spruce. |
| 47 | 6229 - Mixed lowland shrub | 16.1 | No | OPIC - FMD: SCA-Tag alder with stream. Retain as biodiversity maintenance area to protect riparian corridor. |
| 48 | 6229 - Mixed lowland shrub | 19.1 | No | OPIC - FMD: SCA- Old Beaver flooding. Include as biodiversity maintenance area to protect riparian zone. |
| 52 | 6229 - Mixed lowland shrub | 5.2 | No | Multiple cedar clumps within lowland type |
| 53 | 6229 - Mixed lowland shrub | 2.3 | No | |
| 54 | 500 - Water | 5.0 | No | OPIC - FMD: Beaver flooding. |
| 59 | 6239 - Mixed Emergent Wetland | 0.8 | No | |
| 60 | 500 - Water | 25.7 | No | OPIC - FMD: Escanaba River |
| 61 | 310 - Herbaceous Openland | 9.7 | No | OPIC - FMD: Cherry brush and small aspen over fir and white spruce. Occasional tamarack. All of this among old burned pine stumps. |
| 62 | 500 - Water | 2.3 | No | OPIC - FMD: Escanaba River |
| 400 | 310 - Herbaceous Openland | 3.6 | No | OPIC - FMD: Grass opening. |
| 401 | 310 - Herbaceous Openland | 21.9 | No | OPIC - FMD: Grass opening. |
| 402 | 320 - Upland Shrub | 0.6 | No | OPIC - FMD: Grass opening. |
| 404 | 310 - Herbaceous Openland | 3.3 | No | OPIC - FMD: Grass opening. |
| 405 | 310 - Herbaceous Openland | 1.2 | No | OPIC - FMD: Grass opening. |
| 407 | 320 - Upland Shrub | 40.3 | No | OPIC - FMD: Grass opening. 2016-upland shrub with scattered trees. |

Compartment: 75 Year of Entry: 2018



| Stand | Cover Type | Acres | Managed Site | General Comments: |
|-------|---------------------------|-------|-----------------|----------------------------|
| 411 | 31029 - Grass (OI) | 26.2 | No | OPIC - FMD: Grass opening. |
| 412 | 310 - Herbaceous Openland | 2.2 | No | OPIC - FMD: Grass opening. |
| 413 | 310 - Herbaceous Openland | 2.2 | No | OPIC - FMD: Grass opening. |
| 415 | 310 - Herbaceous Openland | 1.7 | No | OPIC - FMD: Grass opening. |