



Compartment Review Presentation

Gwinn Forest Management Unit

Compartment 32074

Entry Year 2019

Acreage: 1,934

County Marquette

Management Area: Ralph Ground Moraine

Revision Date: 2017-08-01

Stand Examiner: Ben Travis

Legal Description:

T43N, R25W, Sections 13,14, and 15.

Identified Planning Goals:

Manage for sustained timber production, improve wildlife habitat, and provide for dispersed forest recreation.

Soil and topography:

Upland areas level to gently rolling. Lowland areas saturated most of year.

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

Compartment is part of very extensive, consolidated block of state land. Private property is found along the east edge of compartment, on the east side of the Escanaba River.

Unique Natural Features:

Escanaba River.

Archeological, Historical, and Cultural Features:

Archeological and MNFI occurrences within compartment.

Special Management Designations or Considerations:

Watershed and Fisheries Considerations:

Wildlife Habitat Considerations:

Compartment 074 is found within the Ralph Ground Moraine Management Area; on Ground Moraines in northern Dickinson and southern Marquette Counties. The dominant Natural Communities are mesic northern forest, poor conifer swamps, and dry mesic northern forest. Major forest cover types include Aspen, Northern Hardwoods, and Mixed Lowland Conifers. Almost every cover type and associated species can be found within the management area including several deer wintering complexes. This management area provides some of the finest grouse and woodcock hunting in the Midwest and this is a wildlife management priority that will continue. Wildlife management issues in the management area are: early successional forest conditions (associated with alder, riparian zones, or forested wetlands); mast (hard and soft); habitat fragmentation; mature forest (upland deciduous, especially aspen and mixed forest with little understory); course woody debris; and deer wintering complexes.

The following have been identified as featured species for Ralph Ground Moraine Management Area: American woodcock, black bear, Northern goshawk, ruffed grouse, and whitetail deer.

Mineral Resource and Development Concerns and/or Restrictions

Sections 13-16 & 22-24, T43N R25W, Marquette County

Sand/gravel pits are not located in the area, but there may be some sand and gravel potential within the compartment.

There may be some potential for production of crushed stone within the compartment sourced from the bedrock formations. There has been no past metallic mineral production in this area, but there has been metallic mineral leasing in this area in the recent past. There is no economic oil and gas production in the UP.

Vehicle Access:

The Escanaba River Road, a primary DNR road, provides seasonal access along the far east side of compartment. Little West Road, a primary DNR road, provides access through the center of compartment. A moderately well distributed pattern of forest access routes and closed forest access routes reside in Sections 14 and 15.

Survey Needs:

Several new survey monuments will be needed in future.

Recreational Facilities and Opportunities:

State snowmobile trail follows Little West road. Hunting, fishing, trapping, dispersed camping, snowmobile riding, and ORV riding are important forest recreation uses.

Fire Protection:

Upland soils somewhat droughty, so moderate fire risk during dry periods.

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**

Report 1 – Total Acres by Cover Type and Age Class

Gwinn Mgt. Unit

Compartment 74

Year of Entry 2019

Ben Travis : Examiner

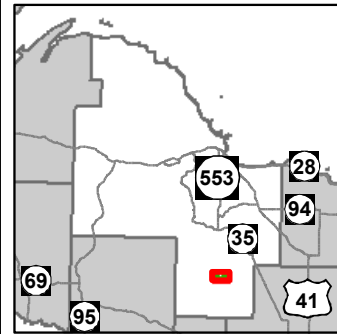


Age Class

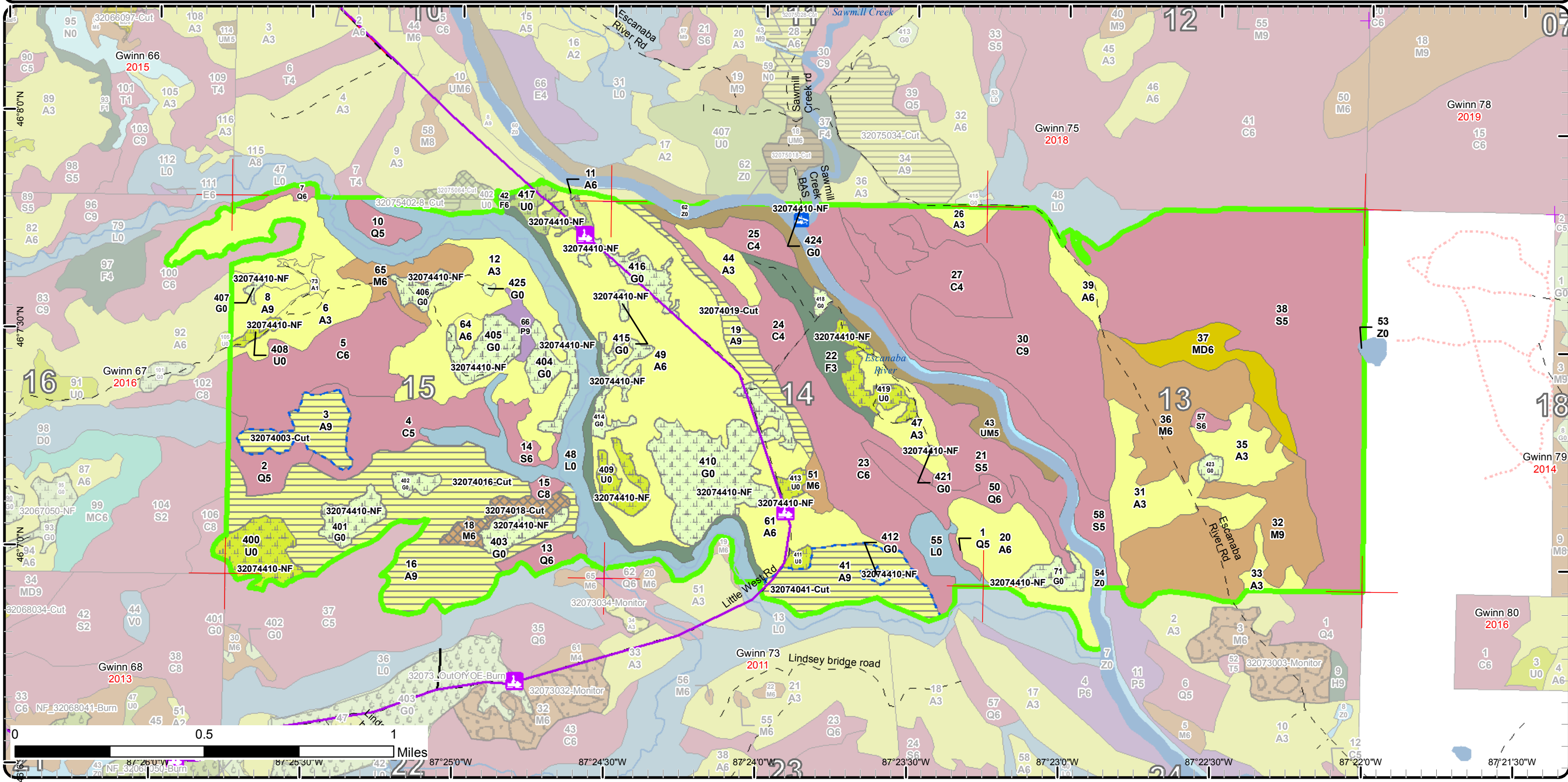
| | Non-Forest | 0-9 | 10-19 | 20-29 | 30-39 | 40-49 | 50-59 | 60-69 | 70-79 | 80-89 | 90-99 | 100-109 | 110-119 | 120-129 | 130-139 | 140-149 | 150+ | Uneven-Aged | Total |
|-----------------------------|------------|-----------|------------|-----------|------------|-----------|-----------|-----------|------------|------------|----------|-----------|-----------|-----------|------------|----------|----------|-------------|-------------|
| Aspen | 0 | 82 | 106 | 27 | 198 | 39 | 0 | 74 | 110 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 636 |
| Cedar | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 72 | 0 | 0 | 78 | 81 | 123 | 0 | 0 | 0 | 354 |
| Herbaceous Openland | 138 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 138 |
| Low-Density Trees | 46 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 46 |
| Lowland Aspen/Balsam Poplar | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| Lowland Conifers | 0 | 0 | 0 | 0 | 2 | 21 | 9 | 0 | 13 | 0 | 9 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 58 |
| Lowland Shrub | 101 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 101 |
| Lowland Spruce/Fir | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 272 | 32 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 307 |
| Mixed Upland Deciduous | 0 | 0 | 0 | 0 | 0 | 23 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 23 |
| Northern Hardwood | 0 | 0 | 0 | 0 | 16 | 0 | 4 | 0 | 0 | 0 | 0 | 10 | 0 | 0 | 0 | 0 | 0 | 127 | 157 |
| Upland Mixed Forest | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 30 |
| Upland Shrub | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 |
| Upland Spruce/Fir | 0 | 0 | 0 | 21 | 0 | 0 | 0 | 0 | 18 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 39 |
| Water | 31 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 31 |
| Total | 326 | 82 | 106 | 48 | 221 | 83 | 13 | 77 | 443 | 104 | 9 | 10 | 82 | 81 | 123 | 0 | 0 | 127 | 1935 |

Cover Type & Treatments Map

Compartment: 74
 T43N, R25W, Sec: 13, 14, 15
 County: Marquette
 Unit: Gwinn
 Mgmt Area: Ralph Ground
 Moraine
 YOE: 2019
 Acres: 1933.9 GIS Calculated
 Examiner: Ben Travis
 Map Revised: 1/11/2018
 Map Phase: Post-Review

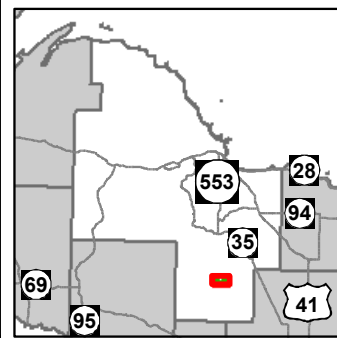


- Miris Corners
- Remonumented Section Corners
- Counties
- Boating Access Site
- Snowmobile Trails
- Designated Snowmobile Trails
- Paved Roads
- County Poor Dirt Roads
- Poor Dirt Roads
- Closed
- Streams
- Lakes and Rivers All
- Compartment Boundary
- Treatments with Site Conditions
- Other Treatment - See Comments
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- 411 - Northern Hardwood
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 423 - Other Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub
- Lakes

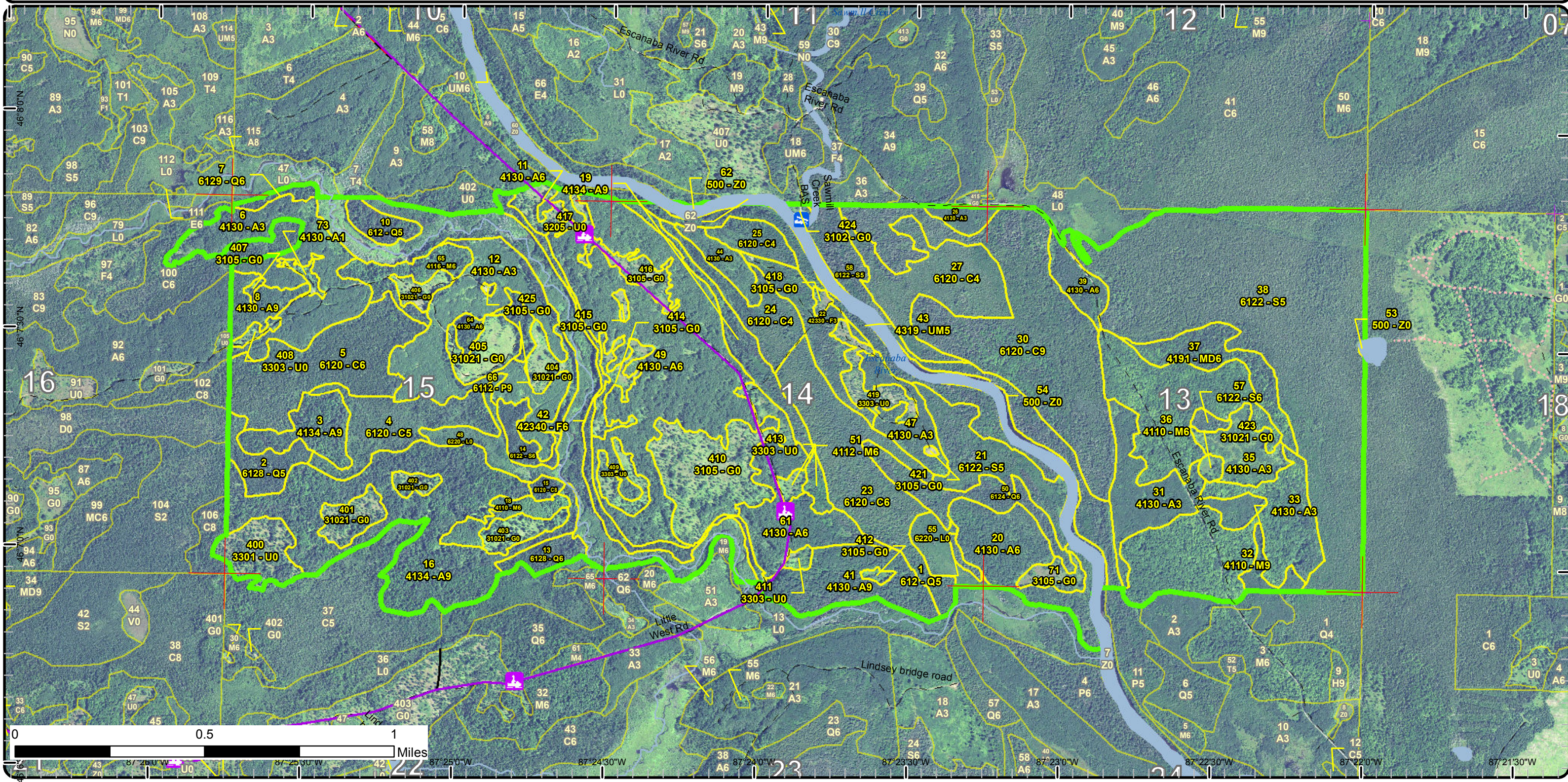


Stand Boundary Map

Compartment: 74
 T43N, R25W, Sec: 13, 14, 15
 County: Marquette
 Unit: Gwinn
 Mgmt Area: Ralph Ground
 Moraine
 YOE: 2019
 Acres: 1933.9 GIS Calculated
 Examiner: Ben Travis
 Map Revised: 1/11/2018
 Map Phase: Post-Review

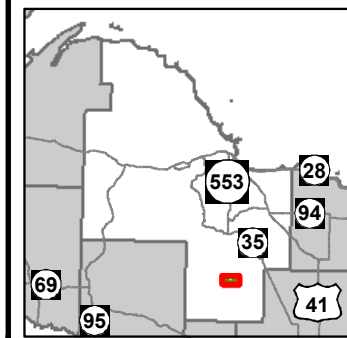


- Miris Corners
 - + Remonumented Section Corners
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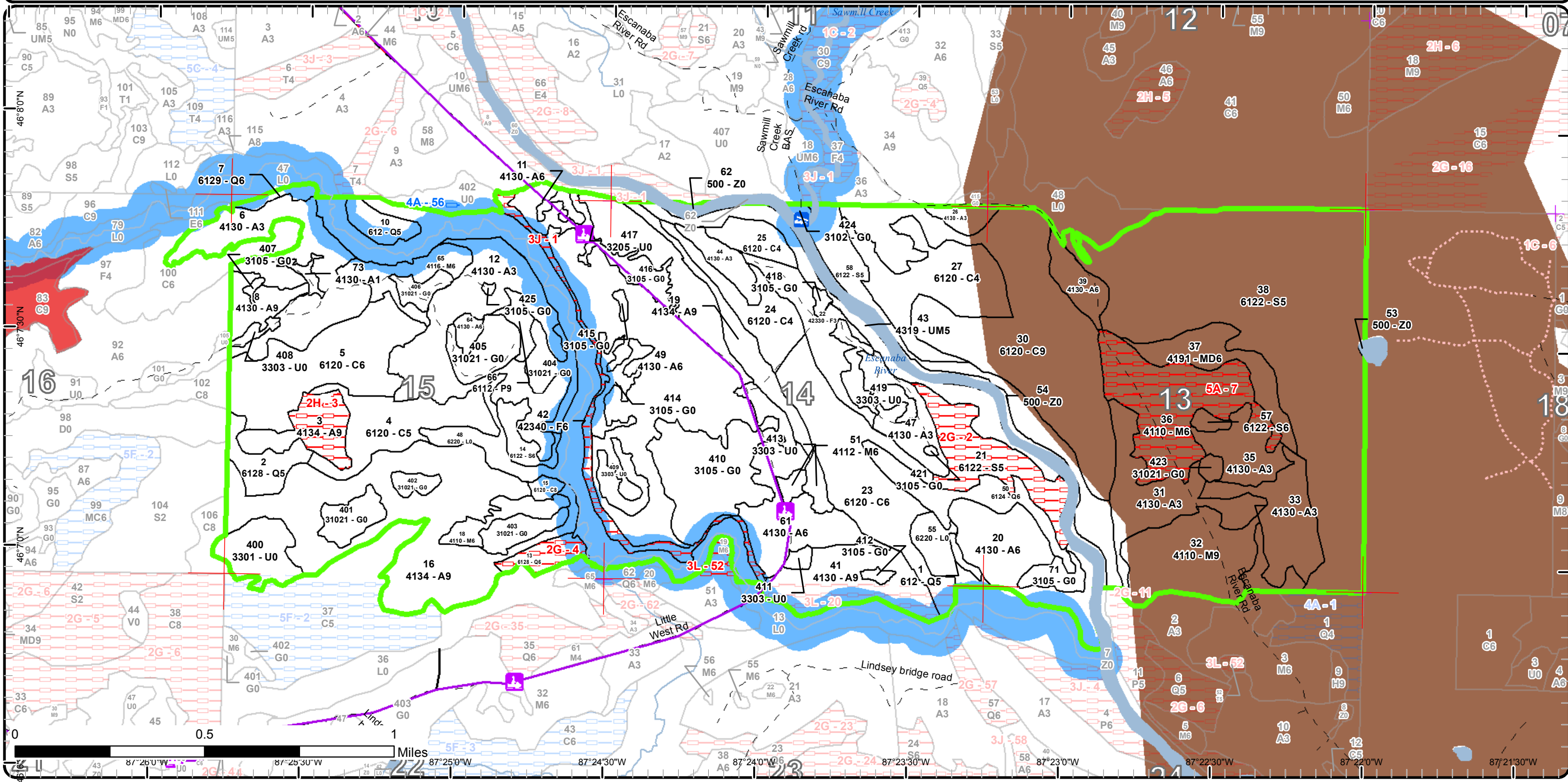


Special Conservation Areas & Site Conditions Map

Compartment: 74
 T43N, R25W, Sec: 13, 14, 15
 County: Marquette
 Unit: Gwinn
 Mgmt Area: Ralph Ground
 Moraine
 YOE: 2019
 Acres: 1933.9 GIS Calculated
 Examiner: Ben Travis
 Map Revised: 1/11/2018
 Map Phase: Post-Review



- Miris Corners
- + Remonumented Section Corners
- Counties
- Boating Access Site
- Snowmobile Trails
- Designated Snowmobile Trails
- Paved Roads
- County Poor Dirt Roads
- Poor Dirt Roads
- Closed
- Streams
- Lakes and Rivers All
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 4A: No Markets Available for these Forest Products
- 2G: Too wet (sensitive soils, does not include access issues)
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 3J: Water quality / BMPs (stream, river, or lake)
- 3L: Other wildlife concerns
- 5A: Not able to obtain desirable regeneration
- Stand Boundaries
- Ecological Reference Areas
- Cold Water Lakes
- High Priority Trout Stream Buffer
- Deer Winter Range





Report 2 – Treatment Summary

Gwinn Mgt. Unit

Compartment 74

Year of Entry: 2019

Acres of Harvest

Total Compartment Acres: 1,934

Commercial Harvest - 139
 Harvests with Site Condition - 56
 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 | 184 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 184 |
| Northern Hardwood | 0 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 |
| Total | 184 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 194 |

Proposed and Next Step Treatments by Method

| | Harvest | Site Prep | Planting | Seeding | Burning | Pesticide | Monitoring | Other | Non-Forest Mgt. | Total Acres |
|--------------|------------|-----------|----------|----------|----------|-----------|------------|----------|-----------------|-------------|
| Current | 194 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 193 | 387 |
| Next Step | 0 | 0 | 0 | 0 | 0 | 0 | 194 | 0 | 1930 | 2124 |
| Total | 194 | 0 | 0 | 0 | 0 | 0 | 194 | 0 | 2123 | 2512 |



| Stand | Treatment Name | Acres | Stand CoverType | Size Density | Stand Age | BA Range | Treatment Type | Treatment Method | Cover Type Objective | Age Structure | Approval Status |
|-------|----------------|-------|--------------------------|----------------|-----------|----------|----------------|-------------------------|----------------------|---------------|----------------------|
| 3 | 32074003-Cut | 19.6 | 4134 - Aspen, Spruce/Fir | Sawtimber Well | 65 | 81-110 | Harvest | Clearcut with Retention | 413 - Aspen | Even-Aged | Draft Field Boundary |

Habitat Cut: No **Site Condition: Blocked by Obstacle**

Prescription Remove overstory aspen, fir, spruce, balsam poplar, and red maple. Utilize patch retention using embedded openings as patch cores. Include black cherry in these retention patches. Exclude any areas with denser cedar. Also exclude purer patches of red maple. Do not cut cedar, white pine, red pine, oak, basswood, hemlock, and birch.

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

Acceptable Regen: Aspen, maple, fir, spruce, pine, balsam poplar, birch, and black cherry.

Other Comment: Fir and spruce showing symptoms of SBW. Accelerate rotation. Sale will need to be cut during winter as access into stand is very wet and involves crossing a stream. This stand also involves an additional frozen crossing from stand 16.

WLD- Retention should favor as much black cherry as possible (10%) black bear, Exclude patches of pure Red Maple (northern goshawk) (State Game Fund)

Proposed Start Date: 10/01/2017

| | | | | | | | | | | | |
|----|--------------|-------|--------------------------|----------------|----|--------|---------|-------------------------|-------------|-----------|----------------------|
| 16 | 32074016-Cut | 110.0 | 4134 - Aspen, Spruce/Fir | Sawtimber Well | 75 | 81-110 | Harvest | Clearcut with Retention | 413 - Aspen | Even-Aged | Draft Field Boundary |
|----|--------------|-------|--------------------------|----------------|----|--------|---------|-------------------------|-------------|-----------|----------------------|

Habitat Cut: No **Site Condition:**

Prescription Remove overstory aspen, fir, most spruce, balsam poplar, and red maple. Utilize patch retention using embedded openings as patch cores. Include black cherry in these retention patches and as scattered leave trees (black bear). Leave some white spruce for wildlife cover. Exclude any areas with denser cedar. May also exclude purer patches of red maple if desired. Do not cut cedar, white pine, red pine, oak, basswood, hemlock, and birch (State Game Fund). Implement 300 foot wide no-cut buffer along river (Fisheries).

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

Acceptable Regen: Aspen, fir, spruce, maple, birch, pine, balsam poplar, and black cherry.

Other Comment: Fir and spruce showing symptoms of SBW. Accelerate rotation. Sale will need to be cut during winter as access into stand is very wet and involves crossing a stream.

Proposed Start Date: 10/01/2017

| | | | | | | | | | | | |
|----|--------------|------|--------------------------------|-----------------|-----|---------|---------|-----------------------|-------------------------|-------------|----------------------|
| 18 | 32074018-Cut | 10.4 | 4110 - Sugar Maple Association | Poletimber Well | 101 | 111-140 | Harvest | Single Tree Selection | 411 - Northern Hardwood | Uneven-Aged | Draft Field Boundary |
|----|--------------|------|--------------------------------|-----------------|-----|---------|---------|-----------------------|-------------------------|-------------|----------------------|

Habitat Cut: No **Site Condition:**

Prescription Mark trees for removal to achieve a residual basal area of between 70 and 90 square feet. Follow applicable DNR silvicultural guidance in tree selection. Do not cut any cedar, hemlock, white pine, yellow birch, and oak. Strive to retain black cherry, basswood, and birch where possible.

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

Acceptable Regen: Sugar maple, red maple, basswood, aspen, spruce, black cherry, and birch.

Other Comment: Will need to be cut during winter as route in will require freezing.

WLD - Agree with Treatment (State Game Fund)

Proposed Start Date: 10/01/2017



| Stand Name | Treatment Name | Acres | Stand CoverType | Size Density | Stand Age | BA Range | Treatment Type | Treatment Method | Cover Type Objective | Age Structure | Approval Status |
|------------|----------------|-------|--------------------------|----------------|-----------|----------|----------------|-------------------------|----------------------|---------------|----------------------|
| 19 | 32074019-Cut | 18.4 | 4134 - Aspen, Spruce/Fir | Sawtimber Well | 68 | 81-110 | Harvest | Clearcut with Retention | 413 - Aspen | Even-Aged | Draft Field Boundary |

Habitat Cut: No**Site Condition:**

Prescription Remove overstory aspen, fir, spruce, balsam poplar, and red maple. Utilize patch retention using adjacent openings as patch cores. Attempt to include large fork crowned aspen for Northern goshawk. Do not cut cedar, white pine, black cherry, red pine, oak, basswood, hemlock, and birch. Leave 100 feet no-cut zone adjacent to River.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Regen: Aspen, balsam poplar, birch, maple, black cherry, fir, and spruce

Other Comment: Do not cut during winter due to snowmobile trail.

WLD - Look for opportunities to retain large fork crowned aspen (northern goshawk), and favor wind firm White Spruce (5%) (wildlife cover) (State Game Fund)

Proposed Start Date: 10/01/2017

| | | | | | | | | | | | |
|----|--------------|------|--------------|----------------|----|--------|---------|-------------------------|-------------|-----------|----------------------|
| 41 | 32074041-Cut | 35.9 | 4130 - Aspen | Sawtimber Well | 62 | 81-110 | Harvest | Clearcut with Retention | 413 - Aspen | Even-Aged | Draft Field Boundary |
|----|--------------|------|--------------|----------------|----|--------|---------|-------------------------|-------------|-----------|----------------------|

Habitat Cut: No**Site Condition: Wildlife Concerns**

Prescription Remove overstory aspen, fir, spruce, balsam poplar, and red maple. Utilize patch retention using embedded opening and stream corridor as patch cores. Attempt to retain large fork crowned aspen in these patches. Include black cherry in these retention patches. Also leave scattered black cherry for black bear. May exclude purer patches of red maple if desired. Do not cut cedar, white pine, red pine, oak, basswood, hemlock, sugar maple and birch (State Game Fund). Do not cut within 300 feet of River (Fisheries).

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Regen: Aspen, birch, fir, spruce, maple, and balsam poplar.

Other Comment: Do not cut during winter due to snowmobile trail.

Proposed Start Date: 10/01/2017

| | | | | | | | | | | | |
|-----|-------------|-------|--------------------------------|------------|--|--------------|--------------|-----------------|--------------|--|----------------------|
| 410 | 32074410-NF | 193.0 | 3105 - Mixed Upland Herbaceous | Nonstocked | | Unspec ified | NonForestMgt | Other - Specify | 3102 - Grass | | Draft Field Boundary |
|-----|-------------|-------|--------------------------------|------------|--|--------------|--------------|-----------------|--------------|--|----------------------|

Habitat Cut: No**Site Condition:**

Prescription Plant scattered mast producing trees as appropriate and cover crops in herbaceous openings according to local site conditions to promote forage for specified wildlife species. Hand/mechanical removal of brush/vegetation from the opening will be used to maintain the openings and hunter walking trails--current and future; disking, mowing, cultipacking, pesticide application may be used as necessary to accomplish wildlife goals. Partial completion reports will be completed annually for the duration this FTP is valid, describing completed work.

Next Step NonForestMgt, Other - Specify; NonForestMgt, Other - Specify; NonForestMgt, Other - Specify; NonForestMgt, Other - Specify;

Treatments: NonForestMgt, Other - Specify; NonForestMgt, Other - Specify; NonForestMgt, Other - Specify; NonForestMgt, Other - Sp

Acceptable Regen: Site to be maintained as opening.

Other Comment: Site to be maintained as opening. If adjacent stands are to be harvested, please consult with Wildlife Technician Caleb Eckloff for practices to maintain the opening. Examples include roller-chopping, herbicide, minimum harvest spec., etc. to clear encroaching vegetation.

Proposed Start Date: 10/01/2018

Total Treatment Acreage Proposed: 387.3

Report 4 – Site Conditions

Gwinn Mgt. Unit
Ben Travis : Examiner

Compartment: 74
Year of Entry: 2019

Availability for Management

| Total Acres | Acres Available | Acres Avail | | Dominant Site Conditions | Dominant Site Conditions | | | | | |
|----------------|--------------------|----------------|---------------|-----------------------------|--------------------------|-----|----|----|----|----|
| | | With Condition | Not Available | | 5F | 2G | 2H | 3J | 3L | 5A |
| 636 | 526 | 0 | 109 | Aspen | 0 | 59 | 14 | 0 | 36 | |
| 354 | 351 | 0 | 3 | Cedar | | | 0 | | 3 | |
| 138 | 138 | 0 | 0 | Herbaceous Openland | | | | | 0 | |
| 46 | 44 | 2 | 0 | Low-Density Trees | 2 | | | | | |
| 5 | 5 | 0 | 0 | Lowland Aspen/Balsam Poplar | | | | | | |
| 57 | 49 | 0 | 9 | Lowland Conifers | | 9 | | | | |
| 101 | 100 | 0 | 1 | Lowland Shrub | | | | | 1 | |
| 307 | 275 | 0 | 32 | Lowland Spruce/Fir | | 32 | | | | |
| 23 | 23 | 0 | 0 | Mixed Upland Deciduous | | | | | | |
| 158 | 31 | 0 | 127 | Northern Hardwood | | 72 | | | | 55 |
| 30 | 30 | 0 | 0 | Upland Mixed Forest | | | | | | |
| 10 | 10 | 0 | 0 | Upland Shrub | | | | 0 | | |
| 39 | 21 | 0 | 17 | Upland Spruce/Fir | | | | 17 | | |
| 31 | 31 | 0 | 0 | Water | | | | | | |
| 1,934 | 1,633 | 2 | 299 | Total Forested Acres | 2 | 172 | 14 | 18 | 39 | 55 |
| | 84% | 0% | 15% | 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) | 18 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: | | | | | | | |
| 2 | Unavailable | 2G: Too wet (sensitive soils, does not include access issues) | 32 | 3J: Water quality / BMPs (stream, river, or lake) | Unspecified | Unspecified | Unspecified |
| Comments: | | | | | | | |

Report 4 – Site Conditions

Gwinn Mgt. Unit
Ben Travis : Examiner

Compartment: 74
Year of Entry: 2019

| | | | | | | | |
|------------------|--------------------|---|----|--|--|-------------|-------------|
| 3 | Unavailable | 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area) | 14 | 2E: Road needed | 5C: Delay treatment for age/size class diversity or exceptional site quality | Unspecified | Unspecified |
| Comments: | | | | | | | |
| 4 | Unavailable | 2G: Too wet (sensitive soils, does not include access issues) | 9 | 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area) | 3J: Water quality / BMPs (stream, river, or lake) | Unspecified | Unspecified |
| Comments: | | | | | | | |
| 7 | Unavailable | 5A: Not able to obtain desirable regeneration | 55 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: | | | | | | | |
| 52 | Unavailable | 3L: Other wildlife concerns | 6 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: | | | | | | | |
| 56 | Available | 4A: No Markets Available for these Forest Products | 3 | 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 Lake | A coldwater lake has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species to persist from year to year. Suitable conditions for coldwater fishes may occur in Michigan lakes if they are relatively deep, have substantial groundwater inflows, or are located in colder (northern) areas of the state. Such lakes are established by Director's action and designated as trout resources by Fisheries Order 200. |
| SCA | Cold Water Stream | A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210. |
| SCA | 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 | 612 - Lowland Coniferous Forest | Poletimber Medium | 1.8 | 33 | 1-50 | Fir and spruce with alder. |
| 2 | 6128 - Lowland Coniferous, Mixed Deciduous | Poletimber Medium | 13.4 | 78 | 51-80 | Some sparse stocking in areas with heavier tag alder. |
| 3 | 4134 - Aspen, Spruce/Fir | Sawtimber Well | 19.6 | 65 | 81-110 | Wet swale to cross for access which will be problematic, also larger stream to cross farther south. |
| 4 | 6120 - Lowland Cedar | Poletimber Medium | 33.6 | 122 | 1-50 | Mostly sparse larger cedar. Overall C5 but some Q4 or Q5. Thick alder. Stream with beaver active in stand. Some areas flooded. Overall poor or medium stocking, wet with alder. |
| 5 | 6120 - Lowland Cedar | Poletimber Well | 57.3 | 118 | 111-140 | Small 1-2 stick cedar. Some gaps. Areas of larger cedar 10-12" but most areas 6". Mostly well-stocked. |
| 6 | 4130 - Aspen | Sapling Well | 55.6 | 18 | Immature | Harvested under permit #32-019-99-01. |
| 7 | 6129 - Mixed Coniferous Lowland Forest | Poletimber Well | 3.9 | 118 | 51-80 | Some patches of C6 but most of the buffer is Q6, spruce predominates. Riparian zone. Stand includes drainage swales from east aspen areas. Mostly cedar in drainage swales. |
| 8 | 4130 - Aspen | Sawtimber Well | 11.6 | 39 | 81-110 | Average of 4 merchantable sticks. White spruce and fir are uncommon overstory associates. |
| 10 | 612 - Lowland Coniferous Forest | Poletimber Medium | 8.6 | 56 | 51-80 | Riparian corridor stand. Drainage surrounding and in stand. Most of the aspen has been removed by beaver, leaving fir and spruce. Maybe 1/3 of stand still contains aspen. Advanced fir regeneration throughout stand is 2-4" dbh. |
| 11 | 4130 - Aspen | Poletimber Well | 3.2 | 38 | 1-50 | Former grass area prescribed burned and roller-chopped over many years to maintain open area for sharptail grouse, but now left to become forested stand. Some cherry and fir. |
| 12 | 4130 - Aspen | Sapling Well | 63.8 | 8 | Immature | Timber harvested under permit #32-019-09 "Green Chair Aspen" - 51 acres. An additional 10 acres has been left uncut (as retention) adjacent to G types, per wildlife request. Sale harvested summer/fall 2009. Very dense stocking. |
| 13 | 6128 - Lowland Coniferous, Mixed Deciduous | Poletimber Well | 8.6 | 93 | 81-110 | |
| 14 | 6122 - Black Spruce | Poletimber Well | 8.3 | 75 | 81-110 | Most stems are 4-stick merchantable height. |
| 15 | 6120 - Lowland Cedar | Sawtimber Medium | 2.7 | 121 | 81-110 | Stand well-stocked on edge but more sparse interior. Alder is thick below sparse canopy areas. |
| 16 | 4134 - Aspen, Spruce/Fir | Sawtimber Well | 110.0 | 75 | 81-110 | Red maple and trembling aspen saplings present. Yellow birch and white birch infrequent overstory associates. 5 to 6 stick aspen. |

Report 7 – Forested Stands

Compartment: 74
Year of Entry: 2019



| Stand | Gwinn Mgt. Unit | | Report 7 – Forested Stands | | | Compartment: 74 Year of Entry: 2019 | |
|-------|--------------------------------|-------------------|----------------------------|--------------|-------------|--|--|
| | Level 4 Cover Type | Size Density | Acres | Stand Age | BA Range | General Comments: | |
| 18 | 4110 - Sugar Maple Association | Poletimber Well | 10.4 | 101 | 111-140 | Good quality timber potential. Evenage 3-4 stick. A few low forks, clumps and other poor stems to remove, but overall many crop trees to release. Stand follows long ridge. Low to medium levels of Pennsylvania sedge. 5 stick hardwood poletimber. Overall, a poletimber stage stand. | |
| 19 | 4134 - Aspen, Spruce/Fir | Sawtimber Well | 18.4 | 68 | 81-110 | OPIC - FMD: Steep slope between two ancient glacial river drainage terraces. Swamp on most of lower terrace. Aspen mature but recommend letting stand convert to late successional forest here to protect slope. | |
| 20 | 4130 - Aspen | Poletimber Well | 39.0 | 44 | 81-110 | 4-stick aspen. A few fir trees. | |
| 21 | 6122 - Black Spruce | Poletimber Medium | 32.4 | 84 | 1-50 | Small stream in stand, may be seasonal. Patches of alder. | |
| 22 | 42330 - Upland Fir | Sapling Well | 21.4 | 29 | Immature | Blueberry. Patches of A3. White pine and white spruce saplings found. | |
| 23 | 6120 - Lowland Cedar | Poletimber Well | 60.7 | 86 | 111-140 | Mostly poor timber quality due to poor form. Leatherleaf and Michigan holly. Small stream originates here. Multiple drainages. Scarce white pine sawtimber-sized trees. Balsam poplar, White birch, red maple, and tamarack saplings present.. Patches of stunted, stagnant C3, patches of C6, and patches of T6. | |
| 24 | 6120 - Lowland Cedar | Poletimber Poor | 21.1 | 111 | 1-50 | Low, wet site with sparse canopy. Some small C6 patches. | |
| 25 | 6120 - Lowland Cedar | Poletimber Poor | 10.9 | 84 | 1-50 | | |
| 26 | 4130 - Aspen | Sapling Well | 6.0 | 15 | Immature | Cut 2003 under permit #32-021-99-01. Well-stocked aspen. White birch saplings. | |
| 27 | 6120 - Lowland Cedar | Poletimber Poor | 44.6 | 129 | 1-50 | Small scattered cedar over thick alder. Low, wet. Trees with spike tops. Small stream in stand. | |
| 30 | 6120 - Lowland Cedar | Sawtimber Well | 122.7 | 136 | 171-200 | Wide stream flows through stand - 8' to 10' wide. Other flowages as well. White spruce found in canopy. | |
| 31 | 4130 - Aspen | Sapling Well | 35.2 | 16 | Immature | Cut in 2001 under permit #32-022-99-01. Well-stocked aspen. Some residual sugar maple poles. Sugar maple saplings found. | |
| 32 | 4110 - Sugar Maple Association | Sawtimber Well | 71.8 | 111 | 81-110 | Good hardwood soil - Maidenhair fern. Low levels of Pennsylvania sedge. Raspberry prevalent. Some sugar maple and ironwood tall saplings scattered about site. Occasional Fir poles in midstory. Nice cohort of 20 inch Dbh plus sugar maple stems. Large canopy American elm. 2011- Stand treated under permit #32-020-09-01. | |
| 33 | 4130 - Aspen | Sapling Well | 6.1 | 17 | Immature | Cut in 2001 under permit #32-022-99-01. Mostly well-stocked aspen 1" dbh with some hardwood poles residual. Raspberry. | |



| | Level 4 Cover Type | Size Density | Acres | Stand Age | BA Range | General Comments: |
|----|--|-------------------|-------|--------------|-------------|--|
| 35 | 4130 - Aspen | Sapling Well | 18.0 | 7 | Immature | Stand harvested in 2011- under permit #32-020-09-01. Excellent aspen regen density. Residual red maple and fir small poles. Raspberry. |
| 36 | 4110 - Sugar Maple Association | Poletimber Well | 55.4 | 121 | 111-140 | Basswood has nice form and vigor. Moderate timber quality sugar maple boles. Cedar, hemlock, and white spruce uncommon canopy members. Black cherry saplings found. Low levels of Pennsylvania sedge. Cut under permit #32-022-99-01. Vernal ponds in east part of stand. No new sugar maple regen. |
| 37 | 4191 - Mixed Upland Deciduous with Conifer | Poletimber Well | 22.9 | 42 | 81-110 | This stand was harvested for a wildlife habitat cut in 1976. The stand was cut to about 40 BA leaving larger scattered maple, yellow birch and hemlock. Sugar maple, trembling aspen, and hemlock are uncommon in canopy. |
| 38 | 6122 - Black Spruce | Poletimber Medium | 223.8 | 76 | 51-80 | Variable overstory canopy cover. Patches of sparse cedar saplings and poles. Thick, widespread Sphagnum. Sparse white pine saplings. |
| 39 | 4130 - Aspen | Poletimber Well | 11.6 | 32 | 81-110 | 2 stick aspen. Black cherry, white birch, and hemlock are uncommon overstory associates. Black spruce saplings and hazel present. |
| 41 | 4130 - Aspen | Sawtimber Well | 35.9 | 62 | 81-110 | 4 stick aspen, moderate site-index. Starting to see elevated levels of stem breakage. Widely scattered, large diameter, defective sugar maple wildlife trees to leave. Mostly well-stocked with some sparse areas filling in. Sparse white spruce in overstory. White spruce saplings and serviceberry found. Former grass area burned over the years to maintain open area, but now left to mature. |
| 42 | 42340 - Upland Spruce/Fir | Poletimber Well | 17.5 | 75 | 51-80 | Riparian zone on Little West Branch of Escanaba river. Mostly fir and spruce, aspen cut out by beaver. Steep short slope to stream in most areas. |
| 43 | 4319 - Mixed Upland Forest | Poletimber Medium | 29.8 | 78 | 51-80 | Escanaba River riparian zone. Riverbank is steep in some areas. |
| 44 | 4130 - Aspen | Sapling Well | 9.8 | 29 | Immature | Some fir areas and sparse cherry areas. Mostly well-stocked aspen. |
| 47 | 4130 - Aspen | Sapling Well | 17.4 | 29 | Immature | Some fir areas and sparse cherry areas. Mostly well-stocked aspen. |
| 49 | 4130 - Aspen | Poletimber Well | 133.8 | 38 | 51-80 | Area formerly managed with prescribed fire and roller-chopping to maintain open area for sharptail grouse, but now left to convert to forested stand. Scattered hawthorn and Siberian crab saplings found. Still some patches of A3 in less fertile areas. Low to moderate site index aspen. Probably 3 stick aspen will be best merchantable height achieved. |
| 50 | 6124 - Lowland Spruce-Fir | Poletimber Well | 20.9 | 44 | 51-80 | |



| Stand | Level 4 Cover Type | Size Density | Acres | Stand Age | BA Range | General Comments: |
|-------|---|-------------------|-------|-----------|----------|---|
| 51 | 4112 - Maple, Beech, Cherry Association | Poletimber Well | 4.4 | 56 | 51-80 | Small patch of poor timber quality hardwood. Good patch diversity in larger backdrop of aspen stands. Scattered hemlock, yellow birch, and aspen in canopy. Fire here fall 2006 in the leaf litter. |
| 57 | 6122 - Black Spruce | Poletimber Well | 2.7 | 68 | 81-110 | Deep, widespread Sphagnum. Spruce 1/2 to 2 stick tall. Nice patch heterogeneity between A3 and northern hardwoods. |
| 58 | 6122 - Black Spruce | Poletimber Medium | 40.3 | 78 | 1-50 | Riparian stand along stream corridor. |
| 61 | 4130 - Aspen | Poletimber Well | 34.1 | 38 | 81-110 | Former grass area burned over the years to maintain open area but now left to mature. |
| 64 | 4130 - Aspen | Poletimber Well | 3.7 | 37 | 81-110 | This patch left uncut (as retention) adjacent to G types, per wildlife request. |
| 65 | 4116 - Mixed N. Hardwood - Aspen | Poletimber Well | 15.8 | 39 | 81-110 | 4-5- merchantable stick aspen. This substand had been left uncut (as retention) adjacent to G types, per wildlife request. Sale harvested summer/fall 2009. |
| 66 | 6112 - Lowland Aspen | Sawtimber Well | 5.1 | 39 | 51-80 | This patch has been left uncut (as retention) adjacent to G types, timber sale #32-019-09 "Green Chair Aspen sale" (per wildlife request). Sale harvested summer/fall 2009. |
| 73 | 4130 - Aspen | Sapling Poor | 2.6 | 18 | Immature | |



| Stand | Cover Type | Acres | Managed Site | General Comments: |
|-------|-----------------------------------|-------|--------------|--|
| 48 | 6220 - Alder/willow | 89.7 | No | Mostly lowland brush and flooded timber along Little West Branch. Stand includes non-stocked wet drainage swales. Wet with hummocks. Some areas of cedar, ash and other trees but mostly non-stocked with trees. |
| 53 | 500 - Water | 0.3 | No | Small pond within cedar swamp. |
| 54 | 500 - Water | 27.2 | No | Escanaba River. |
| 55 | 6220 - Alder/willow | 11.1 | No | A few scattered fir and spruce but mostly alder. |
| 62 | 500 - Water | 3.5 | No | Escanaba River. |
| 71 | 3105 - Mixed Upland Herbaceous | 6.7 | No | |
| 400 | 3301 - Low Density Deciduous Tree | 18.2 | No | Scattered black cherry. Patches of aspen saplings. |
| 401 | 31021 - Cool Season Grass | 10.2 | No | Moderate thatch levels. Scattered black cherry "wolf" trees and patches of aspen whips. |
| 402 | 31021 - Cool Season Grass | 3.9 | No | Thatch moderately heavy. Patches of A2/A3. Scattered black cherry poles (wolfy). White spruce and fir poles present. |
| 403 | 31021 - Cool Season Grass | 8.9 | No | Opening extends along hilltop - unique position in landscape. Heavy grass thatch from grasses. Small patches of M5 and A5. Fir, black cherry, and white spruce poles present. Diverse wildlife habitat. |
| 404 | 31021 - Cool Season Grass | 11.9 | No | Cherry brush heavy in patches. Bushy black cherry poles. Trembling aspen, white spruce, and fir saplings closing in. Stand will succeed to forested state within 15 or 20 years. |
| 405 | 31021 - Cool Season Grass | 13.7 | No | Low hills. Heavy thatch indicating good summer deer forage. Many deer pellet groups. Bushy black cherry poles. Scattered fir and spruce poles. Cherry brush. Nice opening. Nice habitat fringe of white spruce along south edge. |
| 406 | 31021 - Cool Season Grass | 5.7 | No | Moderate thatch levels - indicate moderate summer deer range forage. Patches of A3 and cherry brush. White spruce and fir saplings. Some bushy black cherry poles. |
| 407 | 3105 - Mixed Upland Herbaceous | 1.0 | No | |
| 408 | 3303 - Mixed Low Density Trees | 2.4 | No | |
| 409 | 3303 - Mixed Low Density Trees | 8.5 | No | |



| Stand | Cover Type | Acres | Managed Site | General Comments: |
|-------|--------------------------------|-------|--------------|--|
| 410 | 3105 - Mixed Upland Herbaceous | 48.4 | No | Can see old roller-chopping gouges left in ground, all across site. St. John's wort. Cherry savannah look. White pine, white spruce, and chokecherry saplings present. Small patches of aspen whips. |
| 411 | 3303 - Mixed Low Density Trees | 2.2 | No | Scattered trembling aspen, black cherry, and red pine poletimber. Cherry brush, fir saplings, white spruce saplings, and trembling aspen saplings common. |
| 412 | 3105 - Mixed Upland Herbaceous | 1.5 | No | |
| 413 | 3303 - Mixed Low Density Trees | 2.8 | No | Well on way to being forested stand by next entry period. White spruce, fir, and cherry saplings common. Scattered black cherry and trembling aspen small poletimber. |
| 414 | 3105 - Mixed Upland Herbaceous | 9.2 | No | |
| 415 | 3105 - Mixed Upland Herbaceous | 1.2 | No | |
| 416 | 3105 - Mixed Upland Herbaceous | 9.3 | No | |
| 417 | 3205 - Mixed Upland Shrub | 10.0 | No | |
| 418 | 3105 - Mixed Upland Herbaceous | 1.5 | No | |
| 419 | 3303 - Mixed Low Density Trees | 11.5 | No | |
| 421 | 3105 - Mixed Upland Herbaceous | 0.5 | No | |
| 423 | 31021 - Cool Season Grass | 2.4 | No | Heavy thatch - evidence of good deer forage. 2 apple trees. White spruce saplings predominate. Also trembling aspen saplings present. Occasional white spruce and fir poles. |
| 424 | 3102 - Grass | 1.5 | Yes | Canoe landing/access site, dispersed camping site. Sawmill creek enters Escanaba River here. |
| 425 | 3105 - Mixed Upland Herbaceous | 0.5 | No | |