

Compartment Review Presentation

Escanaba Forest Management Unit

Compartment 33059 Entry Year 2019 Acreage: 3,249

County Menominee

Management Area: Green Bay Lake Plain

Revision Date: 2017-06-30 Stand Examiner: Dan Beaudo

Legal Description:

T35N-R26W, Sections 23-26 and 34-36

Identified Planning Goals:

This compartment contains mainly lowland types consisting of cedar, mixed conifers, bogs, marshes and lowland brush along with North Lake and Little Lake. The upland areas are either upland mix, northern hardwoods or early-successional aspen. Treatments are to address invasive species, hardwood thinning and regenerating mature stands.

Soil and topography:

Level to slightly rolling. Soils are poorly drained, somewhat poorly drained, and well drained sands and very poorly drained, extremely acid mucks and peats. Major soil series are Deford, Wainola, Rousseau, Dawson, Greenwood, and Kinross.

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

This compartment is part of a band of state forest land that is about 25 miles long and 7 miles wide between Escanaba and Menominee. Privately owned agriculture lands lie to the west of this compartment. State forest land, intermixed with private in-holdings, are adjacent to this compartment to the north east and west. Additionally two private 40 acre parcels were acquired to better block in this compartment.

Unique Natural Features:

This area has the potential to harbor many rare and endangered species including great blue heron rookery, eagle, osprey, moose, wolf, northern harrier, Blanding's turtle, loon, black tern, least bittern, American bittern, frigga fritillary, freija fritillary, red-disked alpine, ebony boghaunter, wood turtle, goshawk and red-shouldered hawk. In the form of vegetative unique and natural features, this area has the potential for calypso orchid, ram's head lady's-slipper, marsh grass-of-parnassus, sweet coltsfoot, and Wiegand's sedge.

Archeological, Historical, and Cultural Features:

None known to exist.

Special Management Designations or Considerations:

The North Lake ERA is comprised of the muskeg habitat south of County Road 352/G-12. West of the ERA is the Hayward Lake Wetland Complex Strategic Plan that comprises North and Long Lake with the surrounding marsh area.

Watershed and Fisheries Considerations:

This compartment contains North Lake, Little Lake, Weary Creek, Crystal Brook, Big Brook and the Walton River. The Walton River is designated a Type 1 trout stream less than 50' width. A 300' buffer is recommended in riparian areas susceptible to Aspen regeneration. For all other riparian areas, Best Management Practices should be followed to maintain canopy cover and prevent erosion into waterbodies.

Wildlife Habitat Considerations:

Ecological Context: This compartment is within a sand lake

plain located between Escanaba and Menominee. This plain historically supported forests of hemlock and white pine on ridges, and extensive swamps of cedar, black spruce, and tamarack in low areas. Broad upland areas sometimes supported northern hardwood forests of beech and

sugar maple. Wind throw was the most common natural disturbance regime. During the past 100 years aspen has increased greatly while white pine, red pine, hemlock, and cedar have declined.

Recommendations: This compartment comprises the north half of the Hayward Lake Wetland Complex and contains North Lake and Little Lake. Hayward Lake, the largest lake is in this 3-lake chain, is located in the compartment to the south. All 3 lakes are natural, shallow water basins that were documented in the 1800's by the original land surveyors. Together they form the headwaters of the Walton River. In 1953, a dam was installed on the Walton River about 4 miles

downstream from North Lake, presumably to stabilize water levels in the lakes and expand the existing wetland complex. The dam mainly creates a widening and deepening of the Walter River between the dam and County Road G-12. It appears to be capable of adding about 1 foot of water to the north end of North Lake and some spill over flooding into the vast expanse of marsh and lowland brush between North and Hayward Lakes. However, the dam has progressively less impact on water levels as one moves south from North to Hayward Lakes. This is because the surface water elevation at the south end of Hayward Lake is already higher than the height of the stoplog bays at the dam. Nevertheless, stoplogs are added to the dam late each summer and removed later in the fall due to strong views by local sports persons that the dam actually manages water depths throughout the chain-of-lakes.

Proposed treatments are to address invasive species, hardwood thinning and regenerating mature stands.

Mineral Resource and Development Concerns and/or Restrictions

There may be metallic mineral potential in this area, but at significant depth, and there has been no known exploration or leasing in the area to date. There may be limestone/dolostone potential where bedrock is at or near the surface. No active sand/gravel pits are located within the compartment and the area consists mostly of wetlands, but there may be some minor sand and gravel potential. No economic oil and gas production has been found in the UP.

Vehicle Access:

County road G-12 divides the compartment into a 1/3 northern block and a 2/3 southern block. Other than this the compartment is only accessible via foot or canoe.

Survey Needs:

Four survey corners would be needed for the proposed treatments.

Recreational Facilities and Opportunities:

North Lake provides opportunities to canoe, fish, hunt waterfowl, trap, and view marshland wildlife. An undeveloped boat launch for small watercraft is present at the bridge on G-12 over the Walton River.

Fire Protection:

No significant control problems foreseen due to the lack of explosive fuels and an abundance of natural fuel breaks, such as low wet stands of timber and lowland brush. Low wet areas will impede fire suppression as well as fire spread.

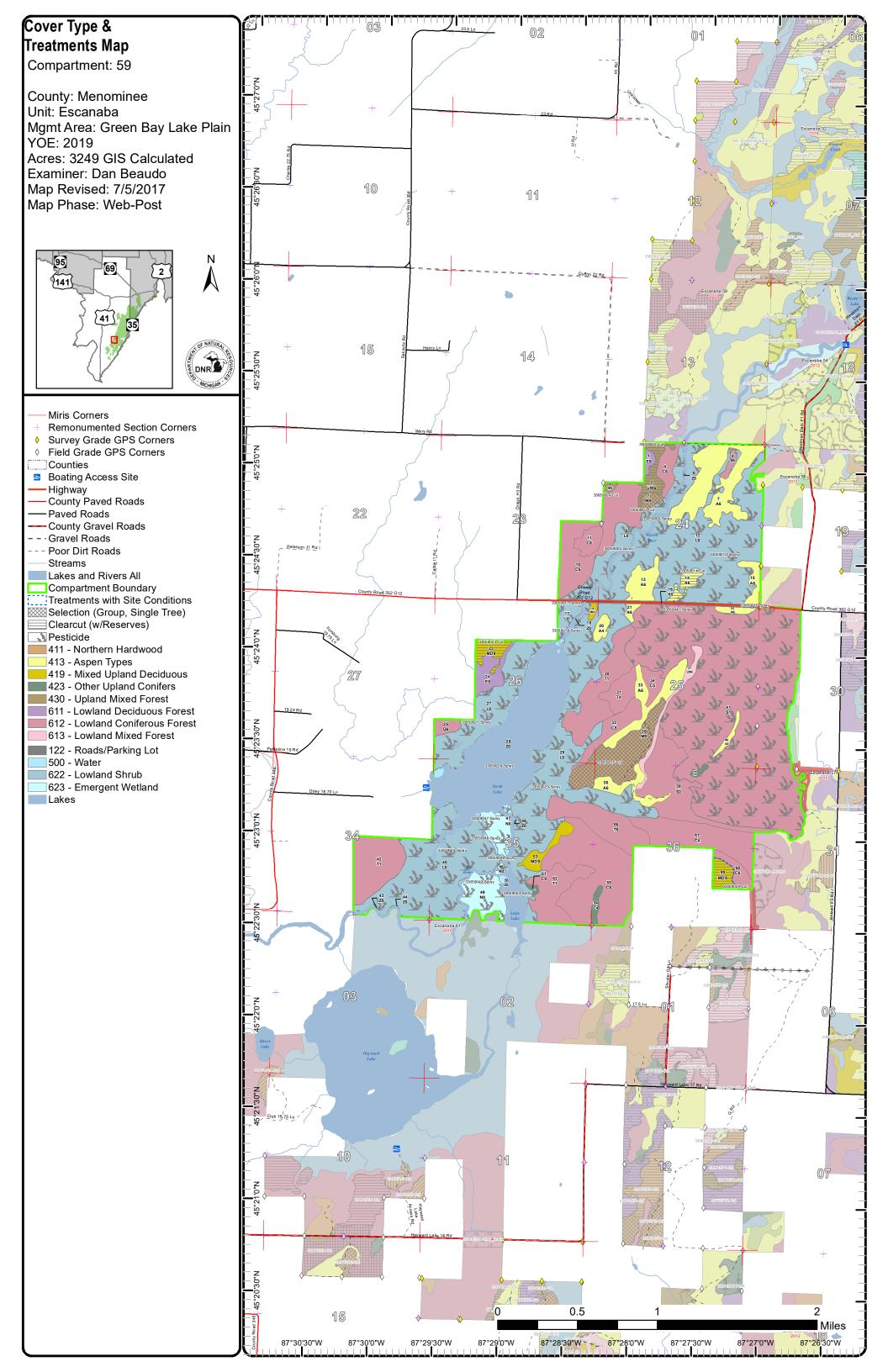
Additional Compartment Information:

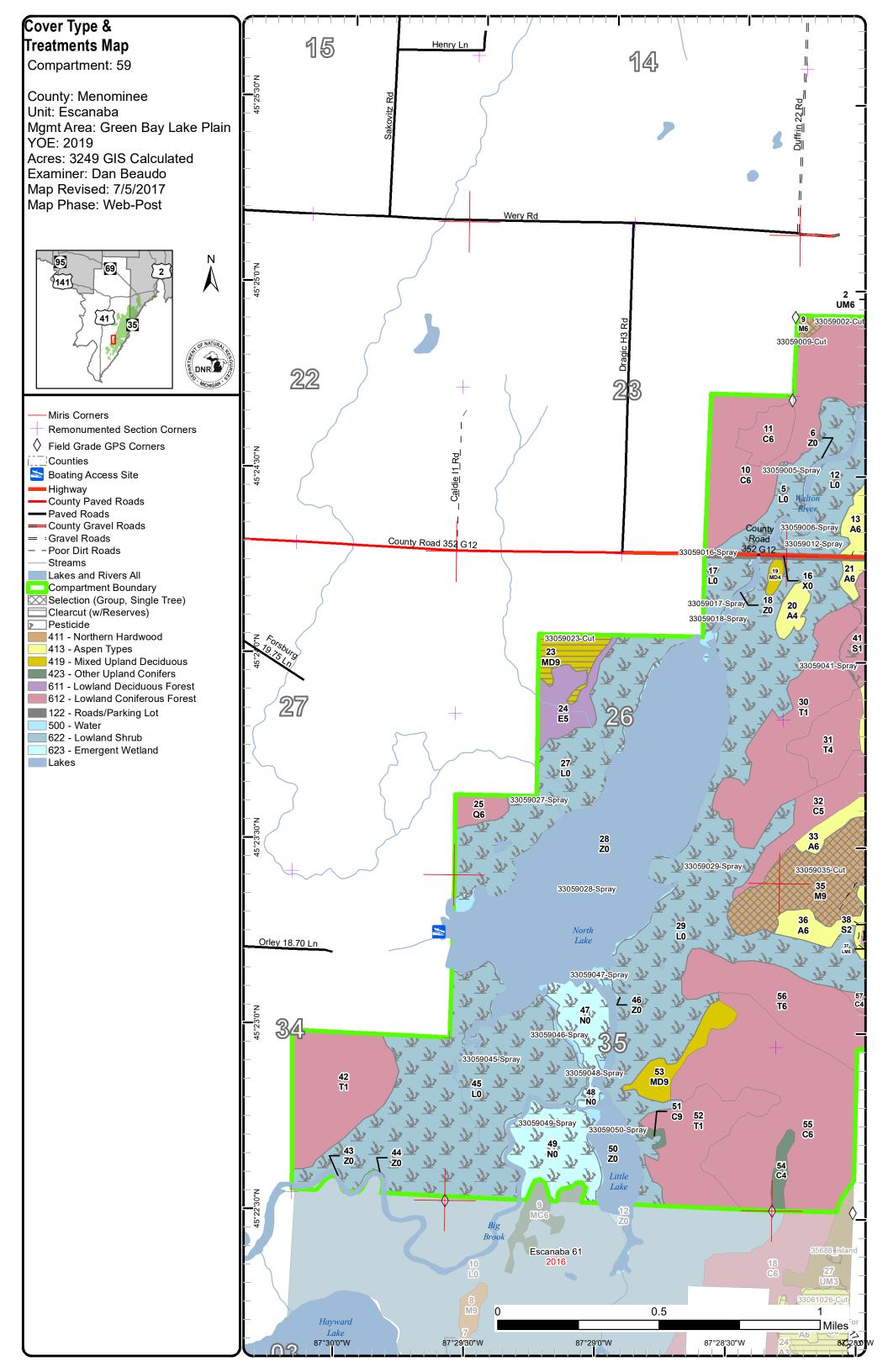
The following reports from the Inventory are attached:

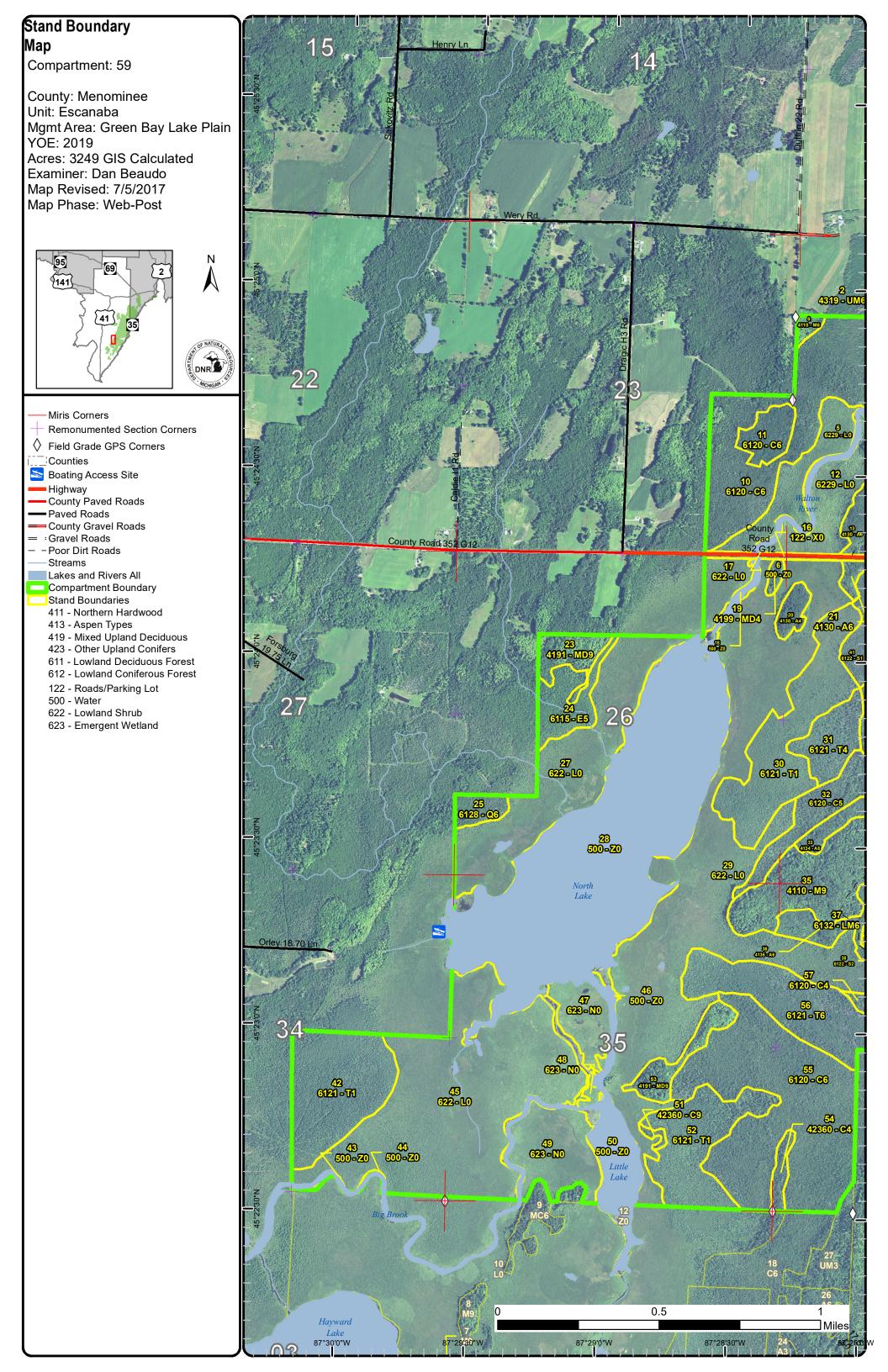
Total Acres by Cover Type and Age Class
Cover Type by Harvest Method
Proposed Treatments – No Limiting Factors
Proposed Treatments – With Limiting Factors
Stand Details (Forested and Nonforested)
Dedicated and Proposed Special Conservation Areas
Site Condition Details

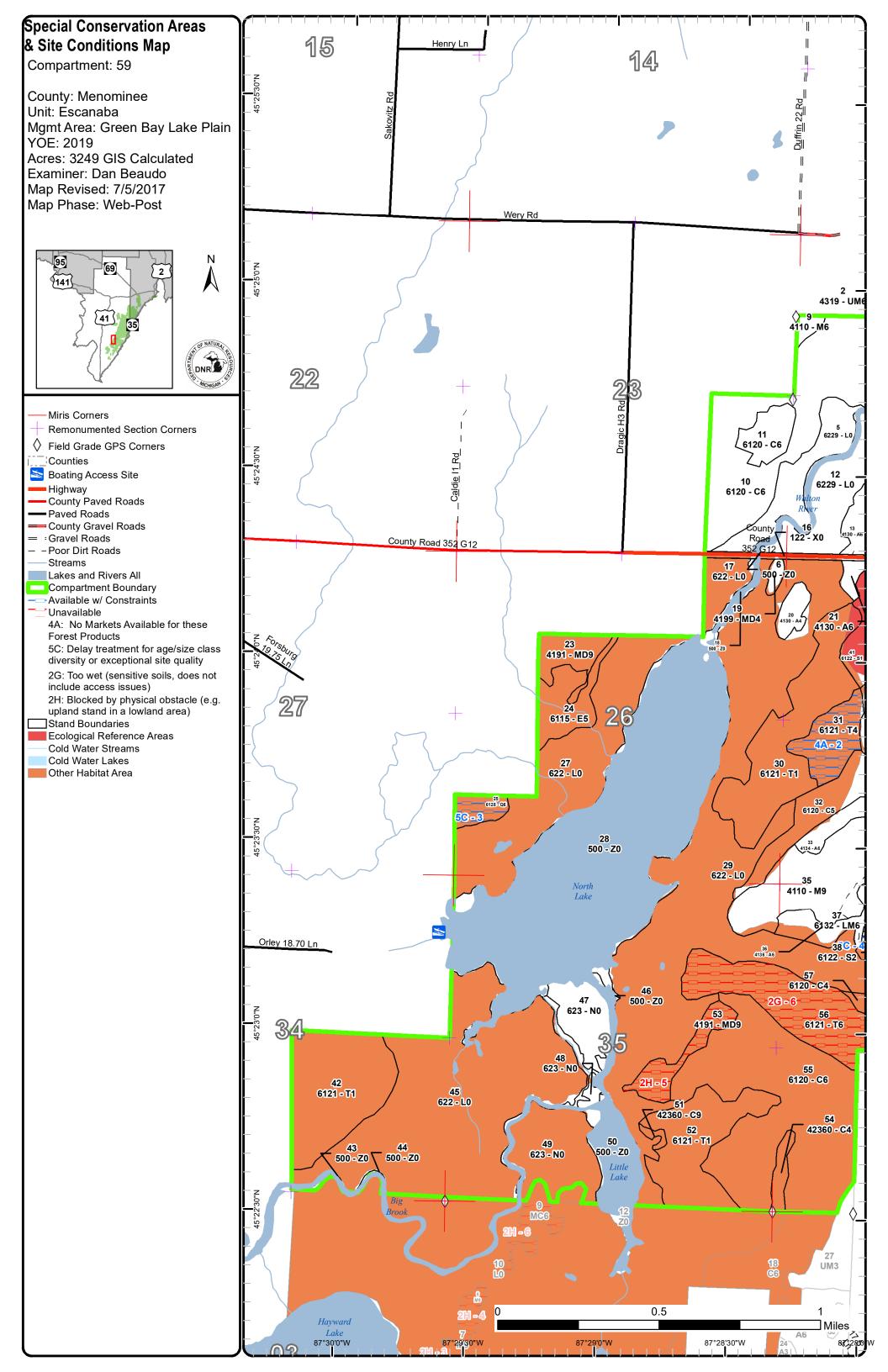
The following information is displayed, where pertinent, on the attached compartment maps:

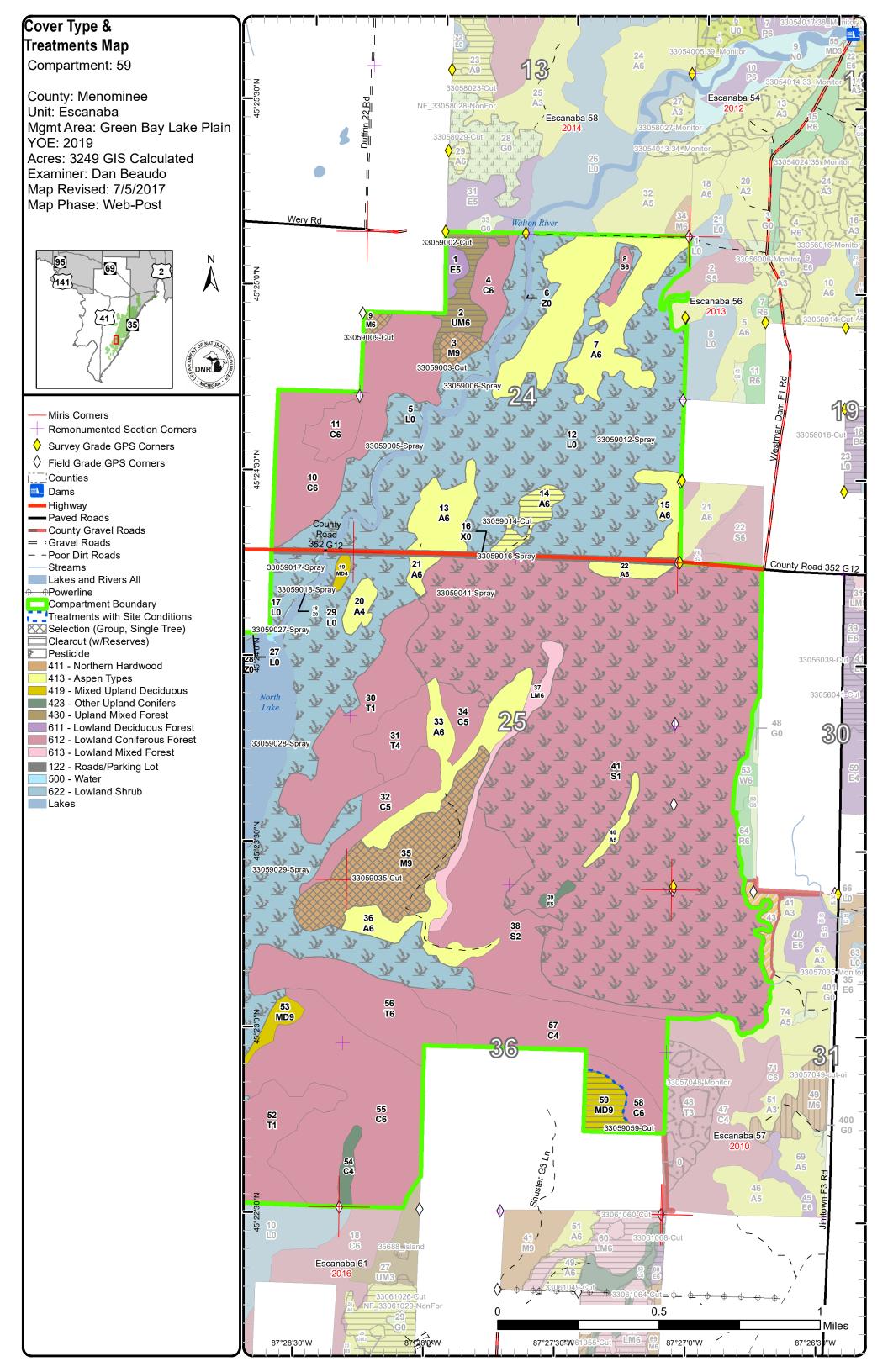
Base feature information, stand boundaries, cover types, and numbers Proposed treatments
Site condition boundaries
Details on the road access system

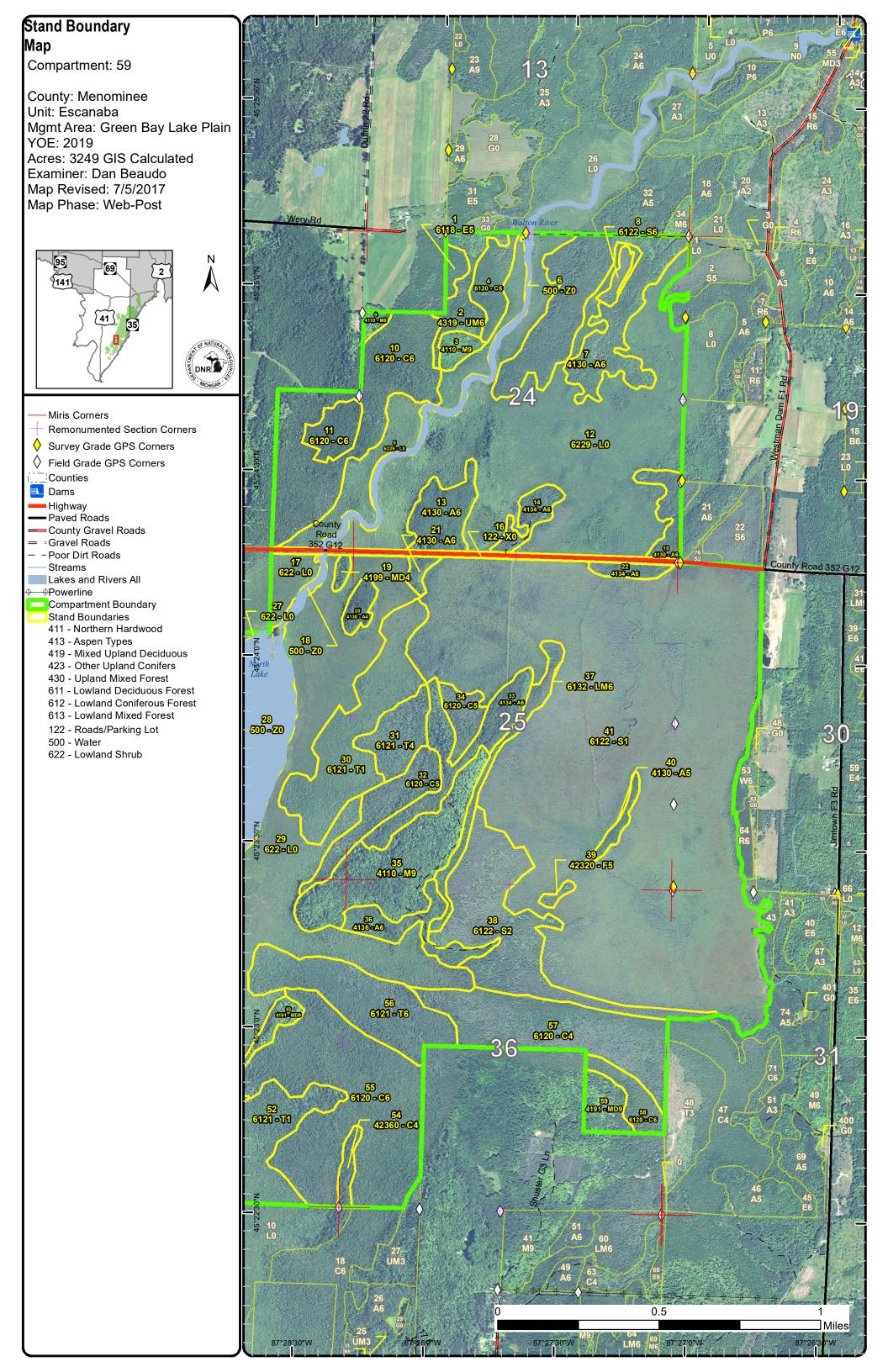


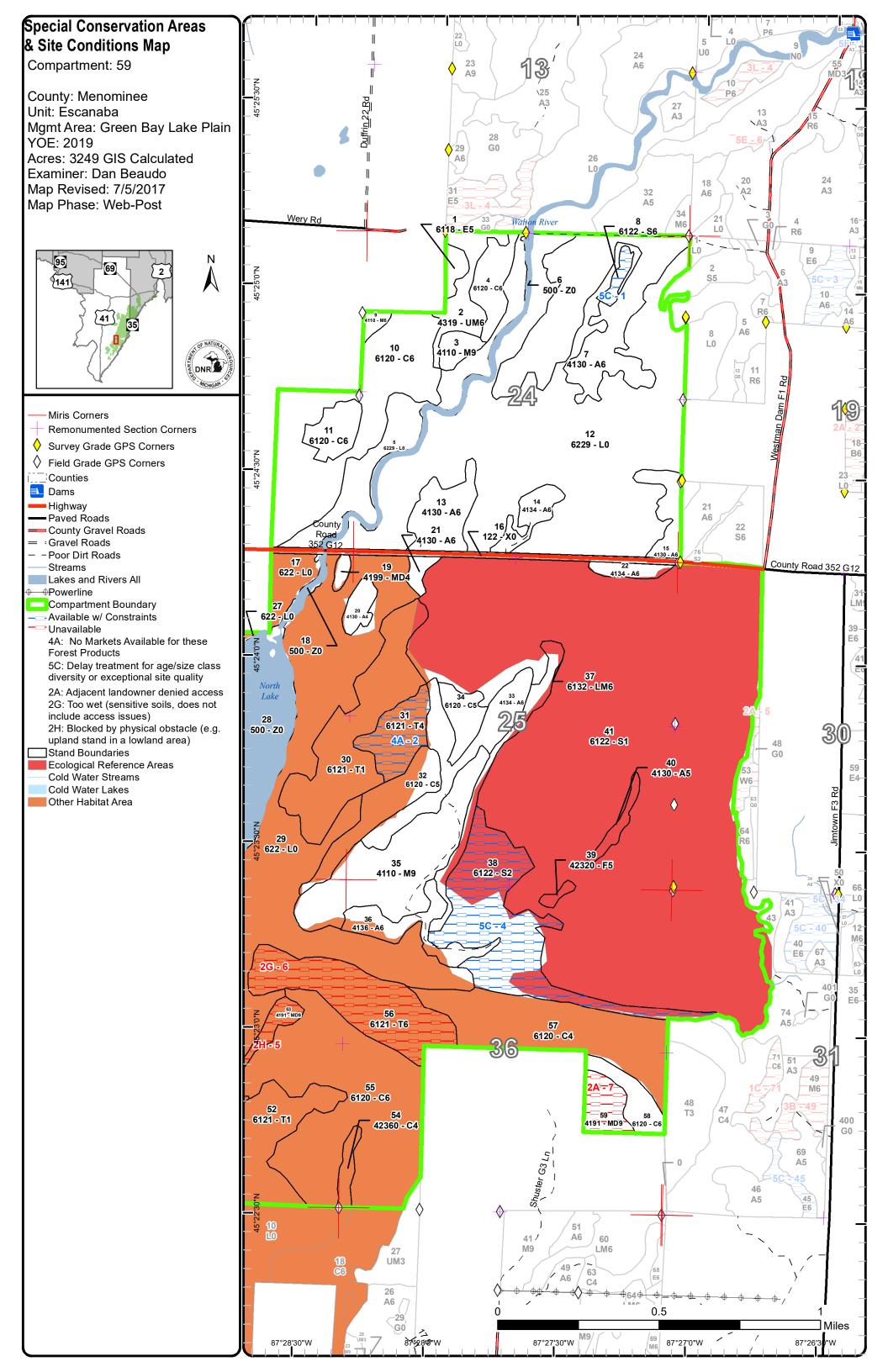












Compartment 59 Year of Entry 2019

Escanaba Mgt. Unit Dan Beaudo : Examiner



Age Class

| | ≱ or | Kon C | | \$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ | \$\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ | 8 / 12 | \$2.00 B. | 8/8 | \$ / K | \$ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | 80,00 | \$ \\ \g^{\g} | 70, | § / & | | S. L. | N. S. | St Jue | N. A. |
|------------------------|-------------|-------|----|---|--|--------|-----------|-----|--------|--|-------|---------------|-----|-------|---|-------|---|--------|---|
| Aspen | 0 | 0 | 22 | 13 | 176 | 0 | 0 | 0 | 0 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 223 |
| Cedar | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 133 | 0 | 125 | 0 | 154 | 0 | 0 | 0 | 0 | 411 |
| Lowland Conifers | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 |
| Lowland Deciduous | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 23 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 28 |
| Lowland Mixed Forest | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 18 | 0 | 0 | 0 | 0 | 0 | 0 | 18 |
| Lowland Shrub | 939 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 939 |
| Lowland Spruce/Fir | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 788 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 788 |
| Marsh | 68 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 68 |
| Mixed Upland Deciduous | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 30 | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 48 |
| Northern Hardwood | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 83 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 83 |
| Tamarack | 0 | 0 | 0 | 0 | 72 | 65 | 51 | 62 | 0 | 23 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 273 |
| Upland Mixed Forest | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 20 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 20 |
| Upland Spruce/Fir | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| Urban | 16 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 16 |
| Water | 324 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 324 |
| Total | 1347 | 0 | 22 | 13 | 251 | 65 | 51 | 62 | 23 | 1091 | 24 | 143 | 0 | 154 | 0 | 0 | 0 | 5 | 3250 |



Report 2 – Treatment Summary

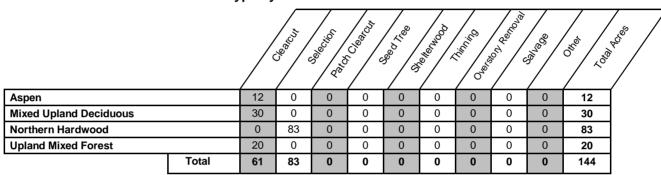
Escanaba Mgt. Unit Year of Entry: 2019

Acres of Harvest

Compartment 59
Total Compartment Acres: 3,249

Commercial Harvest - 129 Harvests with Site Condition - 14 Next Step Harvest - 0 Habitat Cut - 0

Cover Type by Harvest Method



Proposed and Next Step Treatments by Method

| | | /\ | is on the second | | orinio o | | | Siliso N | o inomo | | 4° / 3 | Total State of the |
|-----------|-------|-----|--|---|----------|---|------|----------|---------|---|--------|--|
| Current | | 144 | 0 | 0 | 0 | 0 | 2042 | 0 | 0 | 0 | 2185 | |
| Next Step | | 0 | 0 | 0 | 0 | 0 | 0 | 2185 | 0 | 0 | 2185 | |
| | Total | 144 | 0 | 0 | 0 | 0 | 2042 | 2185 | 0 | 0 | 4370 | |

Habitat Cut: No Prescription Treat with herbicide to remove invasive plants such as phragmites by use of hand or aerial application as funding becomes available. Specs:

Next Step

<u>Acceptable</u> Restore native species.

Regen:

Other Comment:

Proposed Start Date: 10/01/2018

33059006-11.9 500 - Water Nonstocked 0 Unspec Pesticide Aerial 6229 - Mixed Proposal lowland shrub ified Spray

Habitat Cut: No Site Condition:

Prescription Treat with herbicide to remove invasive plants such as phragmites by use of hand or aerial application as funding becomes available.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

<u>Acceptable</u> Restore native species.

Regen:

Other Comment:

Proposed Start Date: 10/01/2018

Next Step

Other Comment:

Proposed Start Date: 10/01/2018

16 33059016-15.5 122 - Road/Parking Nonstocked Unspec Pesticide Hand Application 122 -Proposal Road/Parking Lot ified Spray Lot

Habitat Cut: No Site Condition:

Prescription Treat with herbicide to remove invasive plants such as phragmities by use of hand or aerial application as funding becomes available.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Restore native species.

Regen: Other

Phragmities in ditch of roadway.

Comment:

Proposed Start Date: 10/01/2018

| S t | | Escanab | a Mgt. Unit | | Re | eport 3 | Treatme | nts | | ment: 59 Entry: 2019 | OF NATURAL DESCRIPTION |
|--|---|-------------------|--|-------------------|--------------|-----------------|-------------------|----------------------------|---|-------------------------|--|
| 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 |
| 17 | 33059017- Spray | 14.1 622 - | Lowland Shrub | Nonstocked | I 0 | Unspec ified | Pesticide | Aerial | 6229 - Mixed lowland shrub | | Proposal |
| Habi | itat Cut: No | Sit | e Condition: | | | illeu | | | iowiana sinab | | |
| Prescription Treat with herbicide to remove invasive plants such as phragmities by use of hand or aerial application as funding becomes available. Specs: | | | | | | | | | | | |
| Next Treat | <u>Step</u> Monito ments: | ring, Natural Re | egen (Re-Invento | ory) | | | | | | | |
| Acce Rege | | e native species | S. | | | | | | | | |
| Other Com | _ | | | | | | | | | | |
| Propo | osed Start Date | 10/01/201 | 8 | | | | | | | | |
| 18 | 33059018- Spray | 3.3 5 | 500 - Water | Nonstocked | I 0 | Unspec ified | Pesticide | Aerial | 500 - Water | | Proposal |
| Preso | Habitat Cut: No Site Condition: Prescription Specs: Treat with herbicide to remove invasive plants such as phragmities by use of hand or aerial application as funding becomes available. | | | | | | | | | | |
| Next Treat | <u>Step</u> Monito <u>ments:</u> | ring, Natural Re | egen (Re-Invento | ory) | | | | | | | |
| Acce Rege | | e native species | S. | | | | | | | | |
| Other Com | <u>ment:</u> | | | | | | | | | | |
| Propo | osed Start Date | 10/01/201 | 8 | | | | | | | | |
| 23 | 33059023-Cut | Upla | 191 - Mixed and Deciduous vith Conifer | Sawtimber Well | 95 | 111- 140 | Harvest | Clearcut with Retention | 4191 - Mixed Upland Deciduous with Conifer | Even-Aged | Proposal |
| | | trees greater th | te Condition: nan 3 inch dbh ex re a mixed selec | | | ck and abo | out a 1 acre rete | ention patch of dens | e cedar that is loca | ated in the cent | ral west part |
| Next Treat | Step Monito ments: | ring, Natural Re | egen (Re-Invento | ory) | | | | | | | |
| | Acceptable Aspen, maple, basswood, hemlock, cedar, birch and/or balsam fir. Regen: | | | | | | | | | | |
| | Other Comment: | | | | | | | | | | |
| Propo | osed Start Date | 10/01/201 | 8 | | | | | | | | |
| 27 | 33059027- Spray | 100.5 622 - | Lowland Shrub | Nonstocked | I 0 | Unspec ified | Pesticide | Aerial | 6229 - Mixed lowland shrub | | Proposal |
| | tat Cut: No | | e Condition: | _ | | | | | | | |
| Preso Spec | | vith herbicide to | remove invasiv | e plants suc | h as ph | ragmities | by use of hand | or aerial application | n as funding becon | nes available. | |

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Restore native species.

Regen: <u>Other</u> Comment:

Proposed Start Date: 10/01/2018

Escanaba Mgt. Unit Report 3 -- Treatments Compartment: 59 s Year of Entry: 2019 а **Treatment** Acres Stand Size Stand BA **Treatment Treatment Cover Type** Age Approval n Method Objective Status Name Density Age Structure d CoverType Range **Type** 33059028-500 - Water 28 270.1 Nonstocked 0 Unspec Pesticide Aerial 500 - Water Proposal Spray ified Site Condition: **Habitat Cut: No** Prescription Treat with herbicide to remove invasive plants such as phragmities by use of hand or aerial application as funding becomes available. Specs: Next Step Monitoring, Natural Regen (Re-Inventory) Treatments: Acceptable Restore native species. Regen: Other Comment: Proposed Start Date: 10/01/2018 33059029-269.6 622 - Lowland Shrub Nonstocked 6229 - Mixed Unspec Pesticide Aerial Proposal Spray ified lowland shrub Site Condition: **Habitat Cut: No** Prescription Treat with herbicide to remove invasive plants such as phragmities by use of hand or aerial application as funding becomes available. Specs: Next Step Monitoring, Natural Regen (Re-Inventory) Treatments: Acceptable Restore native species. Regen: Other Comment: **Proposed Start Date:** 10/01/2018 33059035-Cut 72.3 4110 - Sugar Maple Sawtimber 141-Harvest Single Tree 411 - Northern Uneven-Proposal Association Well 170 Selection Hardwood Aged **Habitat Cut: No Site Condition:** Prescription Selection thin stand to 60-80 basal area. Remove low quality trees to promote high quality crop trees. Due to potential forest health issues, reduce Specs: the number of ash and beech trees within the stand. Next Step Monitoring, Natural Regen (Re-Inventory) Treatments: <u>Acceptable</u> Maple, basswood, aspen, birch Regen:

Other Comment:

Proposed Start Date: 10/01/2018

41 33059041-697.8 6122 - Black Spruce Sapling 85 Unspec Pesticide Aerial 6122 - Black Uneven-Proposal Spray Poor ified Spruce Aged

Site Condition: **Habitat Cut: No**

Prescription Treat with herbicide to remove invasive plants such as phragmities by use of hand or aerial application as funding becomes available.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

<u>Acceptable</u> Restore native species.

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018

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| S t | | Esca | anaba Mgt. Unit | | Re | eport 3 | Treatme | nts | | tment: 59 Entry: 2019 | DNR DNR |
|-------------------------|------------------------|----------------|--|-----------------|--------------|-----------------|-------------------|-----------------------|-------------------------------------|--------------------------|--------------------|
| 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 |
| 45 | 33059045- Spray | 199.7 6 | 622 - Lowland Shrub | Nonstocked | d 0 | Unspec ified | Pesticide | Aerial | 6229 - Mixed lowland shrub | | Proposal |
| | | vith herbicio | Site Condition: de to remove invasiv | | h as pl | nragmities | by use of hand | or aerial application | n as funding becor | nes available. | |
| Next S Freatr | Step Moniton ments: | ring, Natura | al Regen (Re-Invent | tory) | | | | | | | |
| Accep Reger Other | | e native sp | ecies. | | | | | | | | |
| Comn | | <u>:</u> 10/01 | /2018 | | | | | | | | |
| 46 | 33059046- Spray | 11.4 | 500 - Water | Nonstocked | d 0 | Unspec ified | Pesticide | Aerial | 500 - Water | | Proposal |
| resci pecs | <u>5:</u> | | Site Condition: de to remove invasival al Regen (Re-Invent | ve plants suc | h as pl | nragmities | by use of hand | or aerial application | n as funding becor | nes available. | |
| Accep Reger | otable Restore | e native sp | ecies. | | | | | | | | |
| Other Comm Propo | | 10/01 | /2018 | | | | | | | | |
| 47 | 33059047- Spray | 25.1 | 623 - Emergent Wetland | Nonstocked | d 0 | Unspec ified | Pesticide | Aerial | 6239 - Mixed Emergent Wetland | | Proposal |
| | | vith herbicio | Site Condition: de to remove invasi | | h as pl | nragmities | by use of hand | or aerial application | | nes available. | |
| Next S Freatr | Step Moniton ments: | ring, Natura | al Regen (Re-Invent | tory) | | | | | | | |
| Accep Reger | | e native sp | ecies. | | | | | | | | |
| Other Comm | nent: | | | | | | | | | | |
| ropo 48 | 33059048- | 2.8 | /2018 623 - Emergent | Nonstocked | d 0 | Unspec | Pesticide | Aerial | 6239 - Mixed | | Proposal |
| | Spray | 2.0 | Wetland | | . 0 | ified | · Jouloido | , total | Emergent Wetland | | . 1000001 |
| | | vith herbicio | Site Condition: de to remove invasiv | | h as pl | nragmities | by use of hand | or aerial application | n as funding becor | nes available. | |

Next Step Treatments:

Regen:

Proposed Start Date: 10

10/01/2018

Monitoring, Natural Regen (Re-Inventory)

Acceptable Restore native species.

Report 3 -- Treatments Escanaba Mgt. Unit Compartment: 59 s Year of Entry: 2019 а **Treatment** Acres Stand Size Stand BA **Treatment Treatment Cover Type** Age **Approval** n Name Method Objective Structure Status CoverType Density d Age Range Type 49 33059049-623 - Emergent Pesticide 6239 - Mixed 40.4 Nonstocked 0 Unspec Aerial Proposal Wetland Emergent **Spray** ified Wetland **Habitat Cut: No Site Condition:** Prescription Treat with herbicide to remove invasive plants such as phragmities by use of hand or aerial application as funding becomes available. Specs: Next Step Monitoring, Natural Regen (Re-Inventory) Treatments: Acceptable Restore native species. Regen: **Other** Comment: **Proposed Start Date:** 10/01/2018 50 33059050-24.7 500 - Water Nonstocked 0 Unspec Pesticide Aerial 500 - Water Proposal Spray ified **Habitat Cut: No** Site Condition: Prescription Treat with herbicide to remove invasive plants such as phragmities by use of hand or aerial application as funding becomes available. Specs: Next Step Monitoring, Natural Regen (Re-Inventory) **Treatments:** Acceptable Restore native species. Regen: Other Comment: **Proposed Start Date:** 10/01/2018 33059059-Cut 14.3 4191 - Mixed Sawtimber 111-Harvest Clearcut 4191 - Mixed Even-Aged Proposal **Upland Deciduous** Well 140 Upland with Conifer Deciduous with Conifer **Habitat Cut: No** Site Condition: Denied Access

 $\underline{\text{Prescription}} \quad \text{Cut all trees greater than 3 inch dbh. Small stand that will regenerate from root/stump sprouts and surrounding seed source.}$

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Maple, aspen, balsam fir, spruce, cedar and/or birch.

Regen:

Other Comment:

Proposed Start Date: 10/01/2018

Total Treatment Acreage Proposed:

2185.2

Escanaba Mgt. Unit

Dan Beaudo: Examiner

Compartment: 59
Year of Entry: 2019

| Availa | ability for | Managemer | nt | | | | | | |
|--------|-------------|----------------|---------------|------------------------|---------|---------|-------|--------|----|
| Total | Acres | Acres Avail | Acres | ι | Dominai | nt Site | e Con | dition | s |
| Acres | Available | With Condition | Not Available | | 4A | 5C | 2A | 2G | 2H |
| 222 | 222 | 0 | 0 | Aspen | | | | | |
| 412 | 412 | 0 | 0 | Cedar | | | | | |
| 9 | 0 | 9 | 0 | Lowland Conifers | | 9 | | | |
| 28 | 28 | 0 | 0 | Lowland Deciduous | | | | | |
| 18 | 18 | 0 | 0 | Lowland Mixed Forest | | | | | |
| 939 | 939 | 0 | 0 | Lowland Shrub | | | | | |
| 787 | 698 | 90 | 0 | Lowland Spruce/Fir | | 90 | | | |
| 68 | 68 | 0 | 0 | Marsh | | | | | |
| 48 | 18 | 0 | 30 | Mixed Upland Deciduous | | | 14 | | 16 |
| 83 | 83 | 0 | 0 | Northern Hardwood | | | | | |
| 274 | 189 | 23 | 62 | Tamarack | 23 | | | 62 | |
| 19 | 19 | 0 | 0 | Upland Mixed Forest | | | | | |
| 2 | 2 | 0 | 0 | Upland Spruce/Fir | | | | | |
| 16 | 16 | 0 | 0 | Urban | | | | | |
| 324 | 324 | 0 | 0 | Water | | | | | |
| 3,249 | 3,035 | 122 | 92 | Total Forested Acres | 23 | 99 | 14 | 62 | 16 |
| | 93% | 4% | 3% | 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 | Available | 5C: Delay treatment for age/size class diversity or exceptional site quality | 5 | Unspecified | Unspecified | Unspecified | Unspecified |
| | Comments: Evaluate next year | of entry to feasibly treat with s | tand 7. | | | | |
| 2 | Available | 4A: No Markets Available for these Forest Products | 23 | Unspecified | Unspecified | Unspecified | Unspecified |
| | Comments: Poor quality, old, st | ubby, small diameter and low | density. | | | | |

Report 4 – Site Conditions

Escanaba Mgt. Unit

Compartment: 59 Year of Entry: 2019 Dan Beaudo : Examiner

| 3 | Available | 5C: Delay treatment for age/size class diversity or exceptional site quality | 9 | Unspecified | Unspecified | Unspecified | Unspecified | | |
|---|---|--|-------|--|-------------------------|-------------|-------------|--|--|
| | Comments: Delay to increase | age and size of regeneration fro | m con | tracts in 1979 and 1988. Res | dual cedar has age of S | 93. | | | |
| 4 | Available | 5C: Delay treatment for age/size class diversity or exceptional site quality | 85 | Unspecified | Unspecified | Unspecified | Unspecified | | |
| | Comments: Delay to improve s | size class. | | | | | | | |
| 5 | Unavailable | 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area) | 16 | Unspecified | Unspecified | Unspecified | Unspecified | | |
| | Comments: | | | | | | | | |
| 6 | Unavailable | 2G: Too wet (sensitive soils, does not include access issues) | 62 | 5C: Delay treatment for age/size class diversity or exceptional site quality | Unspecified | Unspecified | Unspecified | | |
| | Comments: Low productivity si | te. | | | | | | | |
| 7 | Unavailable | 2A: Adjacent landowner denied access | 14 | Unspecified | Unspecified | Unspecified | Unspecified | | |
| | Comments: Current adjacent landowner has denied timber sale access in the past. | | | | | | | | |

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Compartment: 059 Year of Entry: 2019



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 |
|--------------------------------------|----------------------------|--------------------|----------------|-------|
| | Potential Old Growth | | SCA Removal | 1 |
| Comments | | | | |
| Does not meet SCA criteria. | | | | |
| | Potential Old Growth | | SCA Removal | 208 |
| Comments | | | | |
| Does not meet SCA criteria. | | | | |
| | Potential Old Growth | | SCA Removal | 302 |
| Comments | | | | |
| Does not meet SCA criteria. | | | | |
| Hayward Lake Management Area | Habitat Areas or Corridors | Other Habitat Area | Proposed SCA | 2025 |
| Comments Wetland complex habitat are | a | | | |

Escanaba Mgt. Unit Compartment: 59
Year of Entry 20:



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.

| 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 specton 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 conditions that allow naturally-reproduced of 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 at designated as trout resources by Fisheries Order 210. | | | | | | |
| ERA | Ecological Reference Areas | Ecological Reference Areas (ERAs) are high quality examples of identified as Element Occurrences (EOs) by the Michigan Natura context of their natural community classification system. Elemen (Excellent) or B (Good) and a Global (G) or State (S) element (rathreatened (2), or rare (3) serve as an initial base of ERAs. They the State. The system is comprised of individual or associations managed for restoration and maintenance of natural ecological public recommendations for lands as ERAs using the DNR Con | al Features Inventory (MNFI) within the at Occurrences with viability ranks of A arity) ranking of endangered (1), and may be located upon any ownership in of natural community types that are processes and values. The public may | | | | | |

| S t | Escanaba | Mgt. Unit | | Report 7 | – Forested | Stands Compartment: 59 Year of Entry: 2019 |
|-------------|--|----------------------|-------|--------------|-------------|---|
| a n d | Level 4 Cover Type | Size Density | Acres | Stand Age | BA Range | General Comments: |
| 1 | 6118 - Lowland Deciduous with Cedar | Poletimber Medium | 5.2 | 25 | Immature | Previously typed out as L0. This stand is filling in with ash creating an uneven aged stand. Small pocket of dense cedar on edge. |
| 2 | 4319 - Mixed Upland Forest | Poletimber Well | 19.5 | 88 | 141-170 | Mixed stand due to slight changes in elevation. There is a trace amount of large white pine trees with a pocket of hemlock. Cedar is scattered throughout the stand with some dense patches. |
| 3 | 4110 - Sugar Maple Association | Sawtimber Well | 7.2 | 88 | 111-140 | Stand was thinned in 1964 under contract 134-62. No deciduous tree regeneration apparent. Stand is mostly large hardwood trees ready for a thinning. |
| 4 | 6120 - Lowland Cedar | Poletimber Well | 16.9 | 101 | 171-200 | Majority of stand is cedar with other species mixed in or some ash patches. The more upland species are located where there is a slight rise in terrain. |
| 7 | 4130 - Aspen | Poletimber Well | 90.3 | 36 | Unspecified | Clearcut under contract number 18-79A in 1980. Self thinning process creating dead aspen on ground. Area's of the stand have a smaller diameter indicating less dense patches have filled in better then what last YOE indicated. Should be ready to treat next YOE. |
| 8 | 6122 - Black Spruce | Poletimber Well | 4.6 | 89 | 111-140 | Black Spruce stand with some minor species mixed in. |
| 9 | 4110 - Sugar Maple Association | Poletimber Well | 3.3 | 88 | 111-140 | Stand was thinned in 1964 under contract 134-62. Smaller diameter stand but in need of releasing. |
| 10 | 6120 - Lowland Cedar | Poletimber Well | 93.7 | 101 | 171-200 | Majority of stand is fair quality cedar with slight rises in topography where aspen, balm and balsam are present. |
| 11 | 6120 - Lowland Cedar | Poletimber Well | 14.3 | 101 | 171-200 | This stand has a higher density of tamarack that shows up on the imagery. The tamarack sticks up above the dense cedar canopy creating the appearance of a tamarack stand. The cedar and tamarack are of small diameter but high density. |
| 13 | 4130 - Aspen | Poletimber Well | 24.0 | 32 | Immature | Stand was clear cut in 1985 under contract 025-84-01. Dense aspen stand with some larger sugar maple that must have been left when stand was cut. |
| 14 | 4134 - Aspen, Spruce/Fir | Poletimber Well | 11.7 | 82 | Unspecified | The south part of this stand was clearcut in 1987 under contract 25-84-01. The north part of the stand does not appear to have been cut. There is over mature aspen, balsam, spruce, red maple and birch with the higher age. There is a trace amount of cedar in the north end of the stand. |
| 15 | 4130 - Aspen | Poletimber Well | 13.3 | 29 | Immature | Stand was treated in 1988 under contract 33-012-88-01. Good stocking with natural thinning in the aspen. Ash filling in lower areas of stand. |
| 19 | 4199 - Other Mixed Upland Deciduous | Poletimber Poor | 2.8 | 35 | 51-80 | Clearcut in 1982 under contract number 11-77A. This stand was typed as A3 last inventory. Saplings have grown larger and resemble green ash. |

| S t | Escanaba | Mgt. Unit | | Report 7 | - Forested | Stands Compartment: 59 Year of Entry: 2019 |
|-------------|--|----------------------|-------|--------------|-------------|---|
| a n d | Level 4 Cover Type | Size Density | Acres | Stand Age | BA Range | General Comments: |
| 20 | 4130 - Aspen | Poletimber Poor | 7.5 | 35 | Unspecified | Clearcut in 1982 under contract number 11-77A. Balsam within canopy and no SBW noticed. |
| 21 | 4130 - Aspen | Poletimber Well | 4.3 | 35 | Unspecified | Clearcut in 1982 under contract number 11-77A. South part of stand is smaller diameter with a higher concentration of green ash and red maple. |
| 22 | 4134 - Aspen, Spruce/Fir | Poletimber Well | 6.5 | 35 | Unspecified | Stand was clear cut in 1982 under contract 11-77A. Some low ground in the stand with trace of tamarack, cedar and black spruce. There is also a couple beech saplings in the upland portion. Decent regeneration and growth. |
| 23 | 4191 - Mixed Upland Deciduous with Conifer | Sawtimber Well | 15.3 | 95 | 111-140 | This stand has no record of any logging activity. Trace amount of hemlock, birch and beech. The sugar maple is of poor quality. Most of the cedar is along the southern boarder with some being wind thrown. |
| 24 | 6115 - Lowland Ash | Poletimber Medium | 22.6 | 73 | 1-50 | The trees in this stand are small, short, and low quality. A small creek flows NW to SE through this stand. |
| 25 | 6128 - Lowland Coniferous, Mixed Deciduous | Poletimber Well | 9.1 | 93 | Unspecified | East part of stand was cut in 1979 under contract 24-78. West part of stand was cut in 1988 under contract 006-88-02. Good mix of species regenerating. |
| 30 | 6121 - Tamarack | Sapling Poor | 72.4 | 35 | Unspecified | Scrubby stand just enough canopy to take it out of lowland brush. |
| 31 | 6121 - Tamarack | Poletimber Poor | 22.9 | 80 | Unspecified | Thin, short, small diameter, "scrubby" looking stand. |
| 32 | 6120 - Lowland Cedar | Poletimber Medium | 27.1 | 80 | Unspecified | About half of the stand is lowland brush looking with denser areas of canopy trees. Good quality, dense patch of cedar in the north east. Tamarack mortality in this stand. |
| 33 | 4134 - Aspen, Spruce/Fir | Poletimber Well | 37.0 | 35 | Unspecified | Stand was cut in 1982 under contract 11-77A. No SBW noticed in the fir. Nice mixed stand with aspen being dominant. |
| 34 | 6120 - Lowland Cedar | Poletimber Medium | 12.7 | 80 | Unspecified | Poor quality stand close to 50% canopy. Mortality in tamarack with a large percentage dead. |
| 35 | 4110 - Sugar Maple Association | Sawtimber Well | 72.3 | 80 | 141-170 | Stand was thinned in 1975 under contract 65-75 then in 1998/1999 under contract 025-91-01. There is a trace of bigtooth aspen, quaking aspen, balsam, cedar, paper and yellow birch. This is a nice hardwood stand in need of a thinning. The south west end of the stand was privately owned during the last thinning and has a basal area over 200. |
| 36 | 4136 - Aspen, Mixed Conifer | Poletimber Well | 21.7 | 18 | Immature | Stand was cut in 1999 under contract 025-91-01. There is a trace of green ash and cedar. |

| S t | Escanaba | Escanaba Mgt. Unit | | | | Stands Compartment: 59 Year of Entry: 2019 |
|-------------|---|----------------------|-------|--------------|-------------|--|
| a n d | Level 4 Cover Type | Size Density | Acres | Stand Age | BA Range | General Comments: |
| 37 | 6132 - Mixed Lowland Forest with Cedar | Poletimber Well | 18.1 | 105 | Unspecified | This is the transition zone from the upland to the lowland. This stand produces a buffer between the upland ridge and ERA designated area. |
| 38 | 6122 - Black Spruce | Sapling Medium | 84.9 | 80 | Unspecified | Part of this stand is within the ERA. While the rest produces a buffer to the ERA. |
| 39 | 42320 - Upland Spruce | Poletimber Medium | 2.3 | 85 | Unspecified | This stand is two small upland island that were cut in 1982 under contract 11-77A. It appears that the conifers were left and the aspen was cut. |
| 40 | 4130 - Aspen | Poletimber Medium | 5.8 | 35 | Unspecified | This stand was cut in 1982 under contract 11-77A. |
| 41 | 6122 - Black Spruce | Sapling Poor | 697.8 | 85 | Unspecified | The North Lake Muskeg ERA is primarily within this stand. During the drought of 1976, a wildfire started in the north east section of this stand. Fire lines to control the wildfire are evident still today, working their way down from the road G-12 to the south east end of the stand. Later, the west fire line was used to access the ridge in the center of the stand for a timber harvest. Another winter access road was created from G-12 straight south down to the large northern hardwood ridge for multiple thinning treatments of the northern hardwood and a clearcut of the aspen stand. This stand has been called a spruce bog in the past. The stunted black spruce, along with minor densities of jack pine and tamarack, appear to provide a canopy of 25-50% thus creating a S1(small diameter, poorly stocked black spruce) stand. Historical accounts of when the wild fire control lines were established, there was a thick layer of root/shrub material that rolled up like a carpet exposing a sand subsoil and not a thick peat muck like a bog would be indicative of. |
| 42 | 6121 - Tamarack | Sapling Poor | 65.3 | 45 | Unspecified | Short, scrubby looking tamarack with "shooting lanes" in south west part of stand. |
| 51 | 42360 - Upland Cedar | Sawtimber Well | 1.8 | 125 | Unspecified | 1-3 foot change in elevation produced this stand. Thick cedar stand with an old cast iron wood cook stove in it. |
| 52 | 6121 - Tamarack | Sapling Poor | 51.2 | 52 | Unspecified | This stand resembles a lowland brush type but the tamarack appears to have a canopy greater than 25%. The tamarack is also at different heights and diameter. Very poor quality stand. |
| 53 | 4191 - Mixed Upland Deciduous with Conifer | Sawtimber Well | 16.0 | 84 | 111-140 | Mature hardwood stand surrounded by very poor access. Trace of beech and yellow birch. |
| 54 | 42360 - Upland Cedar | Poletimber Poor | 6.3 | 125 | Unspecified | Upland ridge created by elevation change of around 5 feet. |
| 55 | 6120 - Lowland Cedar | Poletimber Well | 146.5 | 125 | Unspecified | Old cedar stand in nice condition. Old winter road in SE section of stand leading from private property line to stand 54. |
| 56 | 6121 - Tamarack | Poletimber Well | 62.1 | 63 | 51-80 | Poor Tamarack stand with short cedar in both canopies. |

| S t a n d | Escanaba Mgt. Unit | | | Report 7 | - Forested | Stands Compartment: 59 Year of Entry: 2019 |
|-----------------------|---|--------------------|-------|--------------|-------------|---|
| | Level 4 Cover Type | Size Density | Acres | Stand Age | BA Range | General Comments: |
| 57 | 6120 - Lowland Cedar | Poletimber Poor | 78.5 | 80 | Unspecified | The majority of this stand is comprised of standing dead tamarack that is not accounted for in the canopy. These trees had a diameter of 8-10 inches. They are characterized by white shelf mushrooms, beetle exit holes and woodpecker activity. Mortality appears to have set in within the last 5 years. |
| 58 | 6120 - Lowland Cedar | Poletimber Well | 13.9 | 80 | Unspecified | Poor cedar stand. |
| 59 | 4191 - Mixed Upland Deciduous with Conifer | Sawtimber Well | 14.3 | 80 | 111-140 | East side of stand is lower ground with several wind thrown trees that occurred in last 10 years. There are also flat stumps present but no cutting record has been found. |

Compartment: 59 Year of Entry: 2019



| Stand | Cover Type | Acres | Managed Site | General Comments: |
|-------|----------------------------|-------|-----------------|--|
| 5 | 6229 - Mixed lowland shrub | 51.5 | No | Lowland brush area on west side of Walton River. |
| 6 | 500 - Water | 11.9 | No | The Walton River with some scattered shrub islands. |
| 12 | 6229 - Mixed lowland shrub | 303.2 | No | Lowland brush area with some small upland islands mixed in. Some areas also resemble treed bog. |
| 16 | 122 - Road/Parking Lot | 15.5 | No | County Road 352/G-12 blacktop with ditch/approximate right of way. Ditch containing phragmities. |
| 17 | 622 - Lowland Shrub | 14.1 | No | Lowland brush stand with phragmities along the Walton River. |
| 18 | 500 - Water | 3.3 | No | The Walton River flowing out of North Lake with some phragmites and cattails. |
| 27 | 622 - Lowland Shrub | 100.5 | No | Lowland brush stand with phragmities thick along North Lake. Some duck blinds and trails from adjacent landowners going to the lake. |
| 28 | 500 - Water | 270.1 | No | North Lake with phragmities and cattails around shoreline. |
| 29 | 622 - Lowland Shrub | 269.6 | No | Lowland shrub with a trace of cedar and tamarack. |
| 43 | 500 - Water | 1.3 | No | Part of Big Brook |
| 44 | 500 - Water | 1.0 | No | Part of Big Brook |
| 45 | 622 - Lowland Shrub | 199.7 | No | Lowland brush/marsh stand with phragmities along the lake and river. |
| 46 | 500 - Water | 11.4 | No | Water course between North, Little and Hayward Lake with unknown name. |
| 47 | 623 - Emergent Wetland | 25.1 | No | Large marshy area surrounded by open waterways. |
| 48 | 623 - Emergent Wetland | 2.8 | No | Marshy area with some shrubs. |
| 49 | 623 - Emergent Wetland | 40.4 | No | More of a marshy area with some shrubs. |
| 50 | 500 - Water | 24.7 | No | Little Lake |