



Compartment Review Presentation

Cadillac Forest Management Unit

Compartment 63091

Entry Year 2019

Acreage: 2,214

County Missaukee

Management Area: Houghton Lake Wetlands

Revision Date: 06/08/2017

Stand Examiner: Andy Hallfrisch

Legal Description:

T23N, R5W, Sec 1-4

Identified Planning Goals:

Vegetation management in the Houghton Lake Wetlands management area will provide forest products; maintain or enhance wildlife habitat; protect areas of unique threatened, endangered and special concern species; and provide for forest-based recreational uses. Timber management for this 10-year planning period will focus on balancing the aspen age-class distribution. Wildlife habitat management objectives include perpetuating early-successional communities for species adapted to young forests for hunting and other wildlife-related recreation opportunity. Expected trends within the next decade are the need to continue to balance aspen age-class distributions, an expected increase in recreation pressure and invasive species encroachment.

Soil and topography:

Lupton-Roscommon-Tawas sands and mucks in the eastern half of the compartment.
Rubicon-Montcalm-Graycalm sands in the western half of the compartment.

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

The eastern part of the Compartment is designated Dead Stream Swamp National Natural Landmark and is all state owned and limited in development. The western part is a mixture of state and private with a number of permanent homes. The Enterprise Oil Field is located just to the south. The Dead Stream Swamp is a very popular area for hunters.

Unique Natural Features:

Bald eagle records within 1 mile to the east. Great blue heron rookery to the north. Numerous osprey records to the southeast and black tern to the southeast. Common moorhen to the northeast. Bigmouth shiner records to the south and southwest and blanding's turtle to the east.

Archeological, Historical, and Cultural Features:

Special Management Designations or Considerations:

The majority of the compartment is within the Dead Stream Swamp National Natural Landmark. This designation recognizes and encourages the conservation of sites that contain outstanding biological and geological resources.

Watershed and Fisheries Considerations:

Bear Lake lies in Compartment 91. The Deadstream flows through Compartment 91, as do several other small tributaries. It is likely that brook trout are present in both the Deadstream and the unnamed tributaries. BMPs should be followed in stream corridors.

Wildlife Habitat Considerations:

Featured wildlife species include deer, bear, ruffed grouse, woodcock, and beaver. Management objectives are to retain a variety of cover types and age class diversity as well as maintain and/or enhance habitat including work on openings and edges to preserve wildlife viewing and hunting opportunities. A portion of this compartment is a part of the Deadstream Swamp. (A. Herban 6/07/17)

Mineral Resource and Development Concerns and/or Restrictions

There is currently no known metallic mineral potential in this part of the state. A currently inactive sand/gravel pit is located in Section 4, and there appears to be good sand and gravel potential within the compartment. The Enterprise oil field is located just to the south. The field is currently in secondary recovery operations and additional new wells are unlikely. Much of the compartment is currently leased by Marathon for oil and gas exploration but no drilling is anticipated, and Marathon is in the process of releasing all of their state leases.

Vehicle Access:

A forest road access plan is detailed on the compartment map. Identified are state and county roads as well as forest roads and trails under the jurisdiction of the DNR. Also indicated are forest roads and trails under the jurisdiction of the DNR that are proposed for abandonment. These roads were determined to be in excess of the access needs in the area, are a threat to the resources, or are a concern environmentally.

Survey Needs:

The west side of the compartment has very few corners along the private property and needs to be surveyed.

Recreational Facilities and Opportunities:

There are no designated recreational facilities within this compartment. Dispersed camping, hunting, and fishing are common recreational activities in this compartment. (T.M.N 12-2-16)

Fire Protection:

Fire growth potential is low in some of this compartment unless drought conditions exist. There is some urban interface within the compartment. Access would be difficult for equipment, and any fires in some areas may require specialized equipment, or a larger crew for suppression. Also the potential for deep burning fires exist, which become very labor intensive.

Additional Compartment Information:**The following reports from the Inventory are attached:**

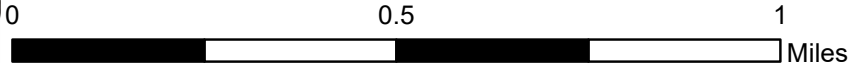
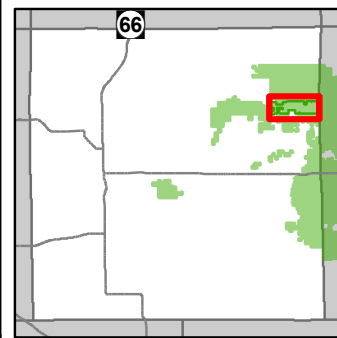
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

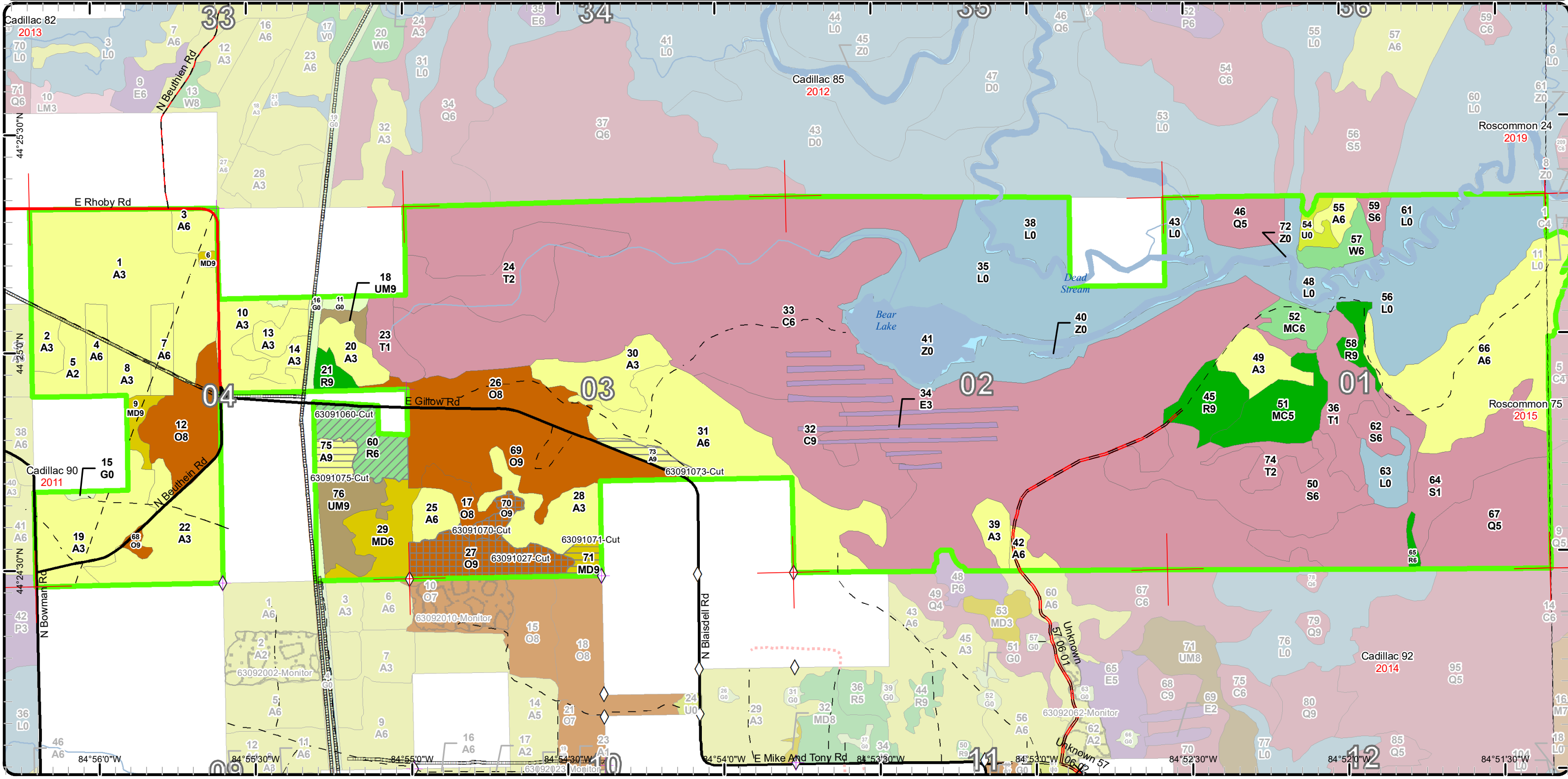
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 91
 T23N R05W Sec. 1-4
 County: Missaukee
 Unit: Cadillac
 Mgmt Area: Houghton Lake Wetlands
 YOE: 2019
 Acres: 2214 GIS Calculated
 Examiner: Andy Hallfrisch
 Map Revised: 7/14/2017
 Map Phase: Web-Post

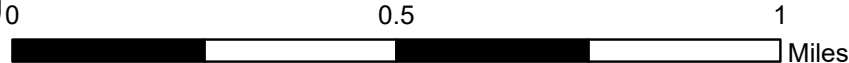
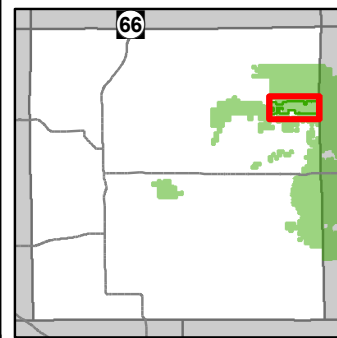


- Miris Corners
- + Remonumented Section Corners
- ◇ Field Grade GPS Corners
- Counties
- County Paved Roads
- Paved Roads
- County Gravel Roads
- County Poor Dirt Roads
- - Poor Dirt Roads
- - - Closed
- Streams
- Lakes and Rivers All
- Pipeline
- Compartment Boundary
- Clearcut (w/Reserves)
- Thinning (Crown, Low, Systematic)
- Seed Tree (w/Reserves)
- 412 - Oak Types
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub
- Lakes

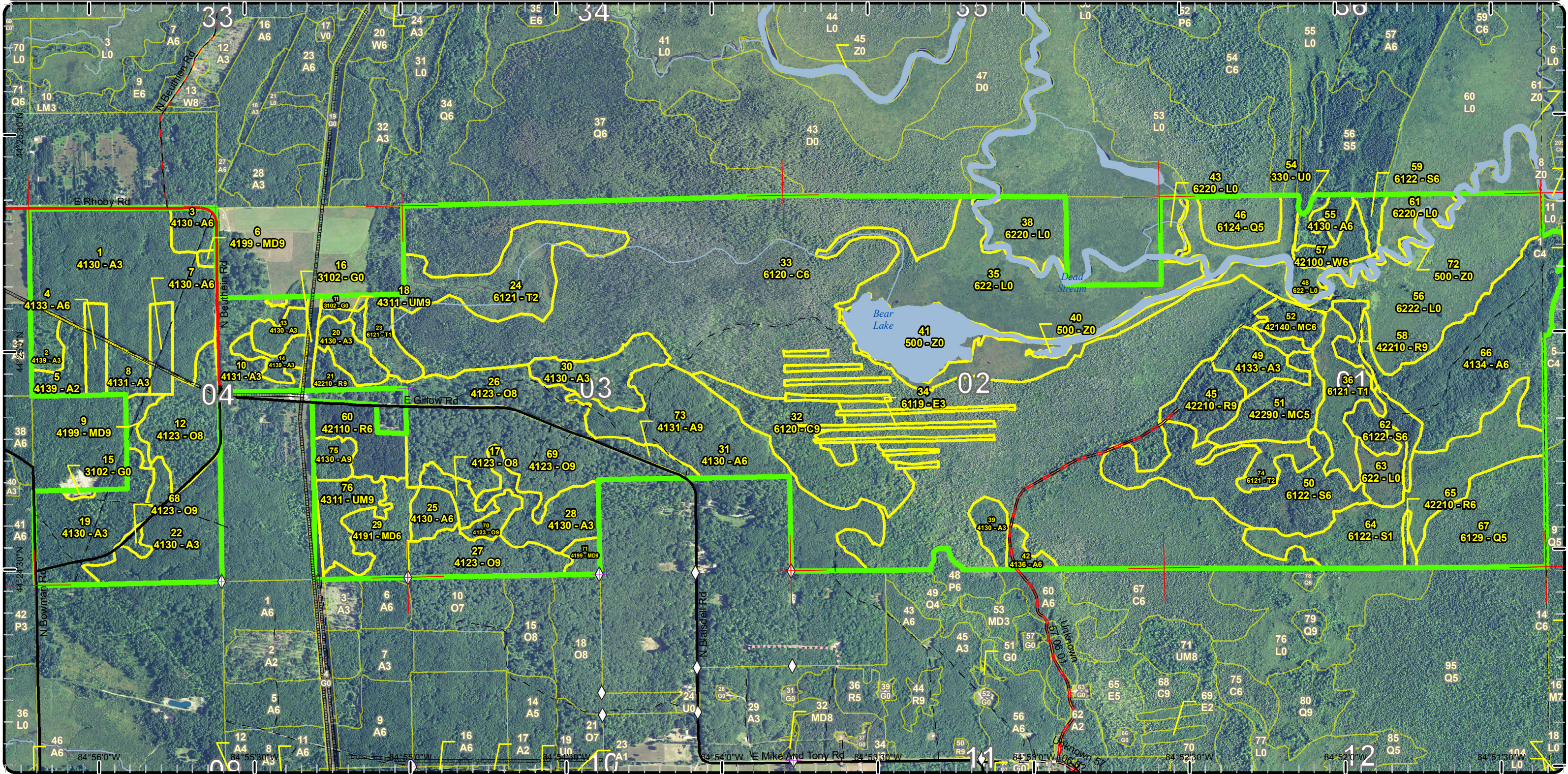


Stand Boundary Map

Compartment: 91
 T23N R05W Sec. 1-4
 County: Missaukee
 Unit: Cadillac
 Mgmt Area: Houghton Lake Wetlands
 YOE: 2019
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 Map Revised: 7/14/2017
 Map Phase: Web-Post

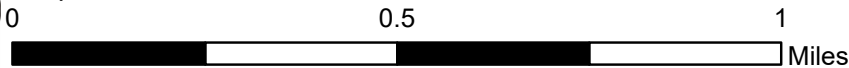
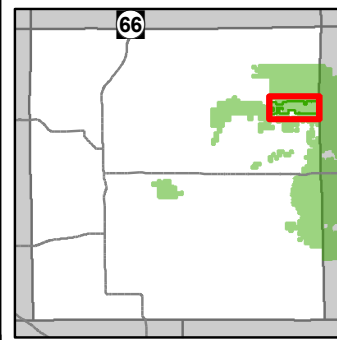


- Miris Corners
 - + Remonumented Section Corners
 - ◇ Field Grade GPS Corners
 - Counties
 - County Paved Roads
 - Paved Roads
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 - County Poor Dirt Roads
 - Poor Dirt Roads
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- Stand Boundaries
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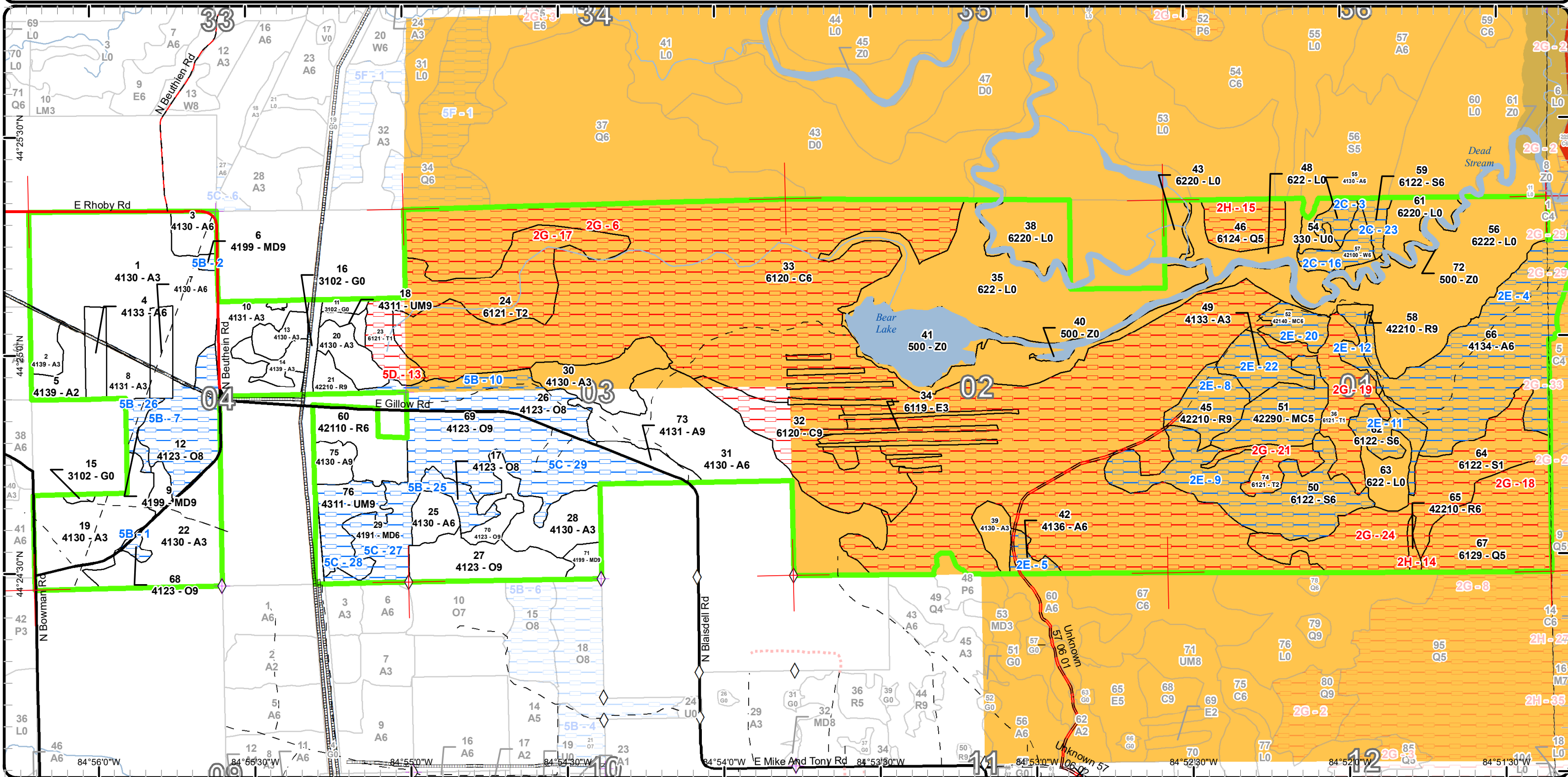


Special Conservation Areas & Site Conditions Map

Compartment: 91
 T23N R05W Sec. 1-4
 County: Missaukee
 Unit: Cadillac
 Mgmt Area: Houghton Lake Wetlands
 YOE: 2019
 Acres: 2214 GIS Calculated
 Examiner: Andy Hallfrisch
 Map Revised: 7/14/2017
 Map Phase: Web-Post



- Miris Corners
- + Remonumented Section Corners
- ◇ Field Grade GPS Corners
- Counties
- County Paved Roads
- Paved Roads
- County Gravel Roads
- County Poor Dirt Roads
- - Poor Dirt Roads
- - - Closed
- Streams
- Lakes and Rivers All
- Pipeline
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 2C: Engineered Bridge Needed (Dept. portable bridge not available or inadequate)
- 2E: Road needed
- 5B: Maintain for regeneration purposes
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 2G: Too wet (sensitive soils, does not include access issues)
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 5D: Unproductive Forest Land
- Stand Boundaries
- Ecological Reference Areas
- Forest Habitat Core Interior
- Cold Water Streams
- Cold Water Lakes
- Non-Dedicated Natural Areas and National Natural Landmarks
- High Priority Trout Stream Buffer



Report 1 – Total Acres by Cover Type and Age Class

Cadillac Mgt. Unit

Compartment 91

Year of Entry 2019

Andy Hallfrisch : 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 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 553 |
| Cedar | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 670 |
| Herbaceous Openland | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 11 |
| Low-Density Trees | 94 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 94 |
| Lowland Conifers | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 66 |
| Lowland Deciduous | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 21 |
| Lowland Shrub | 271 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 271 |
| Lowland Spruce/Fir | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 143 |
| Mixed Upland Deciduous | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 33 |
| Natural Mixed Pines | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 25 |
| Oak | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 170 |
| Planted Mixed Pines | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 |
| Red Pine | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 53 |
| Tamarack | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 96 |
| Upland Mixed Forest | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 22 |
| Water | 56 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 56 |
| White Pine | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 |
| Total | 432 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2304 |



Report 2 – Treatment Summary

Cadillac Mgt. Unit

Year of Entry: 2019

Acres of Harvest

Compartment 91

Total Compartment Acres: 2,214

Commercial Harvest - 70
 Harvests with Site Condition - 0
 Next Step Harvest - 0
 Habitat Cut - 0

Cover Type by Harvest Method

| | Clearcut | Selection | Patch Clearcut | Seed Tree | Shelterwood | Thinning | Overstory Removal | Salvage | Other | Total Acres |
|------------------------|-----------|-----------|----------------|-----------|-------------|-----------|-------------------|----------|----------|-------------|
| Aspen | 14 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 14 |
| Mixed Upland Deciduous | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| Oak | 0 | 0 | 0 | 31 | 0 | 0 | 0 | 0 | 0 | 31 |
| Red Pine | 0 | 0 | 0 | 0 | 0 | 21 | 0 | 0 | 0 | 21 |
| Total | 19 | 0 | 0 | 31 | 0 | 21 | 0 | 0 | 0 | 71 |

Proposed and Next Step Treatments by Method

| | Harvest | Site Prep | Planting | Seeding | Burning | Pesticide | Monitoring | Other | Non-Forest Mgt. | Total Acres |
|--------------|-----------|-----------|----------|----------|----------|-----------|------------|----------|-----------------|-------------|
| Current | 71 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 11 | 82 |
| Total | 71 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 11 | 82 |



| Stand | Treatment Name | Acres | Stand CoverType | Size Density | Stand Age | BA Range | Treatment Type | Treatment Method | Cover Type Objective | Age Structure | Approval Status |
|-------|----------------|-------|-----------------|--------------|-----------|-------------|----------------|------------------|---------------------------|---------------|-----------------|
| 11 | 63091011-NF | 3.4 | 3102 - Grass | Nonstocked | | Unspecified | NonForestMgt | Brush Cutting | 310 - Herbaceous Openland | | Draft Proposal |

Habitat Cut: No**Site Condition:**

Prescription Maintain in an open state. Brushing and cutting a few trees should accomplish this goal. In addition, native grasses and forbs as well as mast bearing shrubs and trees may be planted. Treatment of invasive species as needed.

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Proposed Start Date: 10/01/2018

| | | | | | | | | | | | |
|----|-------------|-----|--------------|------------|--|-------------|--------------|---------------|---------------------------|--|----------------|
| 15 | 63091015-NF | 1.0 | 3102 - Grass | Nonstocked | | Unspecified | NonForestMgt | Brush Cutting | 310 - Herbaceous Openland | | Draft Proposal |
|----|-------------|-----|--------------|------------|--|-------------|--------------|---------------|---------------------------|--|----------------|

Habitat Cut: No**Site Condition:**

Prescription Maintain in an open state. Brushing and cutting a few trees should accomplish this goal. In addition, native grasses and forbs as well as mast bearing shrubs and trees may be planted. Treatment of invasive species as needed.

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Proposed Start Date: 10/01/2018

| | | | | | | | | | | | |
|----|-------------|-----|--------------|------------|--|-------------|--------------|---------------|---------------------------|--|----------------|
| 16 | 63091016-NF | 7.0 | 3102 - Grass | Nonstocked | | Unspecified | NonForestMgt | Brush Cutting | 310 - Herbaceous Openland | | Draft Proposal |
|----|-------------|-----|--------------|------------|--|-------------|--------------|---------------|---------------------------|--|----------------|

Habitat Cut: No**Site Condition:**

Prescription Maintain in an open state. Brushing and cutting a few trees should accomplish this goal. In addition, native grasses and forbs as well as mast bearing shrubs and trees may be planted. Treatment of invasive species as needed.

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Proposed Start Date: 10/01/2018

| | | | | | | | | | | | |
|----|--------------|------|----------------|----------------|----|---------|---------|--------------------------|----------------|-----------|----------|
| 27 | 63091027-Cut | 25.7 | 4123 - Red Oak | Sawtimber Well | 98 | 111-140 | Harvest | Seed Tree with Retention | 4123 - Red Oak | Even-Aged | Proposal |
|----|--------------|------|----------------|----------------|----|---------|---------|--------------------------|----------------|-----------|----------|

Habitat Cut: No**Site Condition:**

Prescription Seed tree harvest leaving 10 - 20 BA of the best quality oak. Treat with stand 70 to the north. Include oak wilt spec.

Next Step
Treatments:

Acceptable Red oak with a small maple component.
Regen:

Other Stand was previously marked but not thinned.
Comment:

Proposed Start Date: 10/01/2018



| S t a n d | Treatment Name | Acres | Stand CoverType | Size Density | Stand Age | BA Range | Treatment Type | Treatment Method | Cover Type Objective | Age Structure | Approval Status |
|-----------------------|----------------|-------|--------------------------|-----------------|-----------|----------|----------------|------------------|-------------------------|---------------|-----------------|
| 60 | 63091060-Cut | 20.5 | 42110 - Planted Red Pine | Poletimber Well | 59 | 201+ | Harvest | Crown Thinning | 4211 - Planted Red Pine | Even-Aged | Proposal |

Habitat Cut: No**Site Condition:**

Prescription Mark red pine to a residual BA of 110 - 130, removing approximately 1/3 of the volume. Focus on marking for access and removing damage.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018

| | | | | | | | | | | | |
|----|--------------|-----|----------------|----------------|----|---------|---------|-----------|----------------|-----------|----------|
| 70 | 63091070-Cut | 5.7 | 4123 - Red Oak | Sawtimber Well | 91 | 111-140 | Harvest | Seed Tree | 4123 - Red Oak | Even-Aged | Proposal |
|----|--------------|-----|----------------|----------------|----|---------|---------|-----------|----------------|-----------|----------|

Habitat Cut: No**Site Condition:**

Prescription Seed tree harvest leaving 10 - 20 BA of the best quality oak. Treat with stand 27 to the south. Include oak wilt spec.

Specs:

Next Step

Treatments:

Acceptable Red oak with some aspen and red maple.

Regen:

Other

Stand was previously marked but not harvested.

Comment:

Proposed Start Date: 10/01/2018

| | | | | | | | | | | | |
|----|--------------|-----|-------------------------------------|----------------|----|---------|---------|----------|-------------------|-----------|----------|
| 71 | 63091071-Cut | 5.1 | 4199 - Other Mixed Upland Deciduous | Sawtimber Well | 86 | 111-140 | Harvest | Clearcut | 4131 - Aspen, Oak | Even-Aged | Proposal |
|----|--------------|-----|-------------------------------------|----------------|----|---------|---------|----------|-------------------|-----------|----------|

Habitat Cut: No**Site Condition:**

Prescription Final harvest. No retention due to small acreage of stand. Include drumming log and oak wilt specs.

Specs:

Next Step

Treatments:

Acceptable Aspen/Oak/Maple mix

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018

| | | | | | | | | | | | |
|----|--------------|-----|-------------------|----------------|----|---------|---------|----------|-------------|-----------|----------|
| 73 | 63091073-Cut | 6.2 | 4131 - Aspen, Oak | Sawtimber Well | 79 | 111-140 | Harvest | Clearcut | 413 - Aspen | Even-Aged | Proposal |
|----|--------------|-----|-------------------|----------------|----|---------|---------|----------|-------------|-----------|----------|

Habitat Cut: No**Site Condition:**

Prescription Final harvest to promote aspen regeneration. No retention due to small size of the stand. Include drumming log and oak wilt spec.

Specs:

Next Step

Treatments:

Acceptable Aspen

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018



S
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| Treatment Name | Acres | Stand CoverType | Size Density | Stand Age | BA Range | Treatment Type | Treatment Method | Cover Type Objective | Age Structure | Approval Status |
|-----------------|-------|-----------------|----------------|-----------|-------------|----------------|------------------|----------------------|---------------|-----------------|
| 75 63091075-Cut | 7.3 | 4130 - Aspen | Sawtimber Well | 57 | Unspecified | Harvest | Clearcut | 413 - Aspen | Even-Aged | Proposal |

Habitat Cut: No

Site Condition:

Prescription Final harvest, leaving red pine as retention. Include drumming log spec in sale write up and consider oak wilt spec.
Specs:

Next Step
Treatments:

Acceptable Aspen
Regen:

Other
Comment:

Proposed Start Date: 10/01/2018

**Total Treatment
Acreage Proposed: 81.9**

Report 4 – Site Conditions

Cadillac Mgt. Unit
Andy Hallfrisch : Examiner

Compartment: 91
Year of Entry: 2019

Availability for Management

| Total Acres | Acres Available | Acres Avail | | Acres Not Available | Dominant Site Conditions | Dominant Site Conditions | | | | | | | |
|----------------|--------------------|----------------|--|------------------------|--------------------------|--------------------------|------------|-----------|------------|-----|----|----|--|
| | | With Condition | | | | 2C | 2E | 5B | 5C | 2G | 2H | 5D | |
| 553 | 438 | 114 | | 0 | Aspen | 5 | 109 | | | | | | |
| 670 | 0 | 0 | | 670 | Cedar | | | | | 670 | | | |
| 11 | 11 | 0 | | 0 | Herbaceous Openland | | | | | | | | |
| 5 | 5 | 0 | | 0 | Low-Density Trees | | | | | | | | |
| 66 | 0 | 0 | | 66 | Lowland Conifers | | | | | 48 | 17 | | |
| 21 | 0 | 0 | | 21 | Lowland Deciduous | | | | | 21 | | | |
| 271 | 271 | 0 | | 0 | Lowland Shrub | | | | | | | | |
| 143 | 0 | 77 | | 66 | Lowland Spruce/Fir | 5 | 72 | | | 66 | | | |
| 33 | 5 | 28 | | 0 | Mixed Upland Deciduous | | | 7 | 21 | | | | |
| 25 | 0 | 25 | | 0 | Natural Mixed Pines | | 25 | | | | | | |
| 170 | 31 | 139 | | 0 | Oak | | | 73 | 66 | | | | |
| 10 | 0 | 10 | | 0 | Planted Mixed Pines | | 10 | | | | | | |
| 52 | 26 | 24 | | 2 | Red Pine | | 24 | | | | 2 | | |
| 95 | 0 | 0 | | 95 | Tamarack | | 0 | | | 83 | | 12 | |
| 23 | 3 | 19 | | 0 | Upland Mixed Forest | | | | 19 | | | | |
| 56 | 56 | 0 | | 0 | Water | | | | | | | | |
| 10 | 0 | 10 | | 0 | White Pine | 10 | | | | | | | |
| 2,214 | 848 | 447 | | 919 | Total Forested Acres | 20 | 241 | 79 | 107 | 888 | 19 | 12 | |
| | 38% | 20% | | 42% | 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 | 5B: Maintain for regeneration purposes | 2 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: | | | | | | | |
| 2 | Available | 5B: Maintain for regeneration purposes | 1 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: | | | | | | | |

Report 4 – Site Conditions

Cadillac Mgt. Unit
Andy Hallfrisch : Examiner

Compartment: 91
Year of Entry: 2019

| | | | | | | | |
|--|-------------|--|-----|---|-------------|-------------|-------------|
| 3 | Available | 2C: Engineered Bridge Needed (Dept. portable bridge not available or inadequate) | 5 | 2E: Road needed | Unspecified | Unspecified | Unspecified |
| Comments: Major road work and a bridge needed to access stand. | | | | | | | |
| 4 | Available | 2E: Road needed | 89 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: Major road repair needed if management is to take place. Possible use of crane mats. | | | | | | | |
| 5 | Available | 2E: Road needed | 5 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: Major road repair needed for stand to be harvested. | | | | | | | |
| 6 | Unavailable | 2G: Too wet (sensitive soils, does not include access issues) | 691 | 5A: Not able to obtain desirable regeneration | Unspecified | Unspecified | Unspecified |
| Comments: Dead Stream Swamp NNL. | | | | | | | |
| 7 | Available | 5B: Maintain for regeneration purposes | 31 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: | | | | | | | |
| 8 | Available | 2E: Road needed | 18 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: Major road repair needed if management is desirable. Possible use of crane mats. | | | | | | | |
| 9 | Available | 2E: Road needed | 84 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: Dead Stream Swamp NNL. If management considered, road will need major repair. | | | | | | | |

Report 4 – Site Conditions

Cadillac Mgt. Unit
Andy Hallfrisch : Examiner

Compartment: 91
Year of Entry: 2019

| | | | | | | | |
|--|-------------|--|----|---|--|-------------|-------------|
| 10 | Available | 5B: Maintain for regeneration purposes | 31 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: | | | | | | | |
| 11 | Available | 2E: Road needed | 14 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: Major road repair needed if management is desirable. | | | | | | | |
| 12 | Available | 2E: Road needed | 7 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: Major road repair needed if management is desirable. | | | | | | | |
| 13 | Unavailable | 5D: Unproductive Forest Land | 12 | 2G: Too wet (sensitive soils, does not include access issues) | Unspecified | Unspecified | Unspecified |
| Comments: | | | | | | | |
| 14 | Unavailable | 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area) | 2 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: Surrounded by lowland. In the Dead Stream Swamp NNL. | | | | | | | |
| 15 | Unavailable | 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area) | 17 | 2G: Too wet (sensitive soils, does not include access issues) | 2C: Engineered Bridge Needed (Dept. portable bridge not available or inadequate) | Unspecified | Unspecified |
| Comments: | | | | | | | |

Report 4 – Site Conditions

Cadillac Mgt. Unit
Andy Hallfrisch : Examiner

Compartment: 91
Year of Entry: 2019

| | | | | | | | |
|--|--------------------|---|----|---|------------------------------|-------------|-------------|
| 16 | Available | 2C: Engineered Bridge Needed (Dept. portable bridge not available or inadequate) | 10 | 2E: Road needed | Unspecified | Unspecified | Unspecified |
| Comments: Major road work and a bridge needed to access stand. | | | | | | | |
| 17 | Unavailable | 2G: Too wet (sensitive soils, does not include access issues) | 45 | 5A: Not able to obtain desirable regeneration | 5D: Unproductive Forest Land | Unspecified | Unspecified |
| Comments: | | | | | | | |
| 18 | Unavailable | 2G: Too wet (sensitive soils, does not include access issues) | 48 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: | | | | | | | |
| 19 | Unavailable | 2G: Too wet (sensitive soils, does not include access issues) | 28 | 5A: Not able to obtain desirable regeneration | Unspecified | Unspecified | Unspecified |
| Comments: | | | | | | | |
| 20 | Available | 2E: Road needed | 10 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: Major road work needed for access. Not worth it fiscally at this time. | | | | | | | |
| 21 | Unavailable | 2G: Too wet (sensitive soils, does not include access issues) | 11 | 5D: Unproductive Forest Land | Unspecified | Unspecified | Unspecified |
| Comments: | | | | | | | |

Report 4 – Site Conditions

Cadillac Mgt. Unit
Andy Hallfrisch : Examiner

Compartment: 91
Year of Entry: 2019

| | | | | | | | |
|---|-------------|--|----|------------------------------|---|-------------|-------------|
| 22 | Available | 2E: Road needed | 15 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: Major road repair needed to access stand. Possible use of crane mats. | | | | | | | |
| 23 | Available | 2C: Engineered Bridge Needed (Dept. portable bridge not available or inadequate) | 5 | 2E: Road needed | Unspecified | Unspecified | Unspecified |
| Comments: Major road work and a bridge need to access. | | | | | | | |
| 24 | Unavailable | 2G: Too wet (sensitive soils, does not include access issues) | 66 | 5D: Unproductive Forest Land | 5A: Not able to obtain desirable regeneration | Unspecified | Unspecified |
| Comments: | | | | | | | |
| 25 | Available | 5B: Maintain for regeneration purposes | 8 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: | | | | | | | |
| 26 | Available | 5B: Maintain for regeneration purposes | 6 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: Holding until stands 4 and 7 are ready to be treated. | | | | | | | |
| 27 | Available | 5C: Delay treatment for age/size class diversity or exceptional site quality | 21 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: | | | | | | | |

Report 4 – Site Conditions

Cadillac Mgt. Unit
Andy Hallfrisch : Examiner

Compartment: 91
Year of Entry: 2019

| | | | | | | | |
|------------------|-----------|--|----|-------------|-------------|-------------|-------------|
| 28 | Available | 5C: Delay treatment for age/size class diversity or exceptional site quality | 19 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: | | | | | | | |
| 29 | Available | 5C: Delay treatment for age/size class diversity or exceptional site quality | 66 | 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 | Non-Dedicated Natural Areas and National Natural Landmarks | This category is comprised of those Natural, Wilderness and Wild Areas that have been nominated or proposed for legal dedication, but for which legal dedication by legislature has not occurred. The nomination process is defined by Part 351, Wilderness and Natural Areas, of the Natural Resources and Environmental Protection Act, 1994 PA 451. The program is administered by the DNR. Nominations require the submittal of a Natural Areas Nomination Packet to the DNR. This is an active program, with proposed sites in various stages of review. Final dedication of nominated Natural, Wilderness and Wild Areas is accomplished through legislative action. |
| 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. |
| HCVA | Legally dedicated Natural Areas, Wilderness or Wild Areas | The nomination process is defined by Part 351, Wilderness and Natural Areas, of the Natural Resources and Environmental Protection Act, 1994 PA 451. The program is administered by the DNR. Nominations require the submittal of a Natural Areas Nomination Packet to the DNR. This is an active program, with proposed sites in various stages of review. Final dedication of nominated Natural, Wilderness and Wild Areas is accomplished through legislative action. |
| 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. |



| | Level 4 Cover Type | Size Density | Acres | Stand Age | BA Range | General Comments: |
|----|--|---------------------|-------|--------------|-------------|---|
| 1 | 4130 - Aspen | Sapling Well | 94.1 | 26 | Unspecified | Pipeline running on the south end of stand, and running through the east side. Red pine pocket on the southwest side. |
| 2 | 4139 - Aspen, Mixed Deciduous | Sapling Well | 8.1 | 6 | Unspecified | Treated with sale #63-033-09-01. Aspen stand with a lot of stump sprout red maple. Pockets of red pine were left untreated, along with scattered red oak. Canopy closure closer to 75%. |
| 3 | 4130 - Aspen | Poletimber Well | 8.9 | 38 | Unspecified | Pipeline crosses thru stand. More red maple east of the pipeline. |
| 4 | 4133 - Aspen, Mixed Pine | Poletimber Well | 8.7 | 38 | Unspecified | Majority of white pine located in northern half of stand. |
| 5 | 4139 - Aspen, Mixed Deciduous | Sapling Medium | 11.2 | 15 | Unspecified | Aspen coming in nicely. Lower volume where larger oaks were left. Canopy closure closer to 75%. |
| 6 | 4199 - Other Mixed Upland Deciduous | Sawtimber Well | 1.3 | 80 | 111-140 | Paper birch falling out of stand. |
| 7 | 4130 - Aspen | Poletimber Well | 9.2 | 38 | Unspecified | Nice aspen stand. Consider harvest next YOE. |
| 8 | 4131 - Aspen, Oak | Sapling Well | 8.2 | 15 | Unspecified | Larger and denser aspen to the west of stand, with fewer large oak. Canopy closure closer to 75%. |
| 9 | 4199 - Other Mixed Upland Deciduous | Sawtimber Well | 5.5 | 91 | 81-110 | Most aspen in pockets in the northern portion of the stand. |
| 10 | 4131 - Aspen, Oak | Sapling Well | 21.6 | 6 | Immature | Aspen stand with a lot of red maple regeneration. Saw log sized oak scattered throughout the stand were left from harvest. White pine is mostly located close to the road. There is a wet area in the northeast portion of the stand. |
| 12 | 4123 - Red Oak | Sawtimber Medium | 31.4 | 91 | 51-80 | Deer browse in areas. Some scattered pockets of aspen in larger canopy gaps. The understory seems to be filling in nicely. |
| 13 | 4130 - Aspen | Sapling Well | 7.4 | 27 | Unspecified | Heavy browse on oak. |
| 14 | 4139 - Aspen, Mixed Deciduous | Sapling Well | 7.8 | 15 | Unspecified | Pocket of red pine in the western portion of the stand. Heavy deer browse on the oak regeneration. |
| 17 | 4123 - Red Oak | Sawtimber Medium | 7.7 | 91 | 51-80 | |
| 18 | 4311 - Pine, Aspen Mix | Sawtimber Well | 3.3 | 58 | 141-170 | Pipeline running north/south through the stand. The NE is heavy to red pine and lots of aspen regeneration in the SE finger. Average BA of 147. |
| 19 | 4130 - Aspen | Sapling Well | 41.1 | 16 | Unspecified | Pipeline running through stand. |



| | Level 4 Cover Type | Size Density | Acres | Stand Age | BA Range | General Comments: |
|----|--|------------------|-------|--------------|-------------|--|
| 20 | 4130 - Aspen | Sapling Well | 11.5 | 15 | Unspecified | Some scattered large red oak and red pine. Most of the balsam is located along eastern edge adjacent to the lowland. Heavy deer browse on the red oak regeneration. A pipeline runs North/South through the stand. |
| 21 | 42210 - Natural Red Pine | Sawtimber Well | 5.6 | 71 | 141-170 | Red pine appears to be natural. South side of stand borders private property. |
| 22 | 4130 - Aspen | Sapling Well | 43.0 | 26 | | Aspen almost pole size. Small pocket of red pine next to the road on the north end of stand. |
| 23 | 6121 - Tamarack | Sapling Poor | 11.7 | 34 | 1-50 | Very wet with lots of tag alder and cattails. Canopy closure right at 25%. Heavy deer browse on cedar regeneration. Larger black spruce and balsam along the edge. |
| 24 | 6121 - Tamarack | Sapling Medium | 44.9 | 74 | 1-50 | Stand is very wet. Mix of small, old tamarack and black spruce with open areas of cattail and tag alder. |
| 25 | 4130 - Aspen | Poletimber Well | 9.0 | 26 | Unspecified | |
| 26 | 4123 - Red Oak | Sawtimber Medium | 31.3 | 89 | 51-80 | Areas of heavy aspen regeneration, mostly in the western portion of the stand where the canopy is lighter. |
| 27 | 4123 - Red Oak | Sawtimber Well | 25.7 | 98 | 111-140 | Oak stand with some crown die back. |
| 28 | 4130 - Aspen | Sapling Well | 24.9 | 17 | Unspecified | |
| 29 | 4191 - Mixed Upland Deciduous with Conifer | Poletimber Well | 21.3 | 78 | 111-140 | Mixed stand. Aspen is located in pockets within the stand. |
| 30 | 4130 - Aspen | Sapling Well | 22.7 | 7 | Unspecified | Aspen regeneration coming in very nicely. |
| 31 | 4130 - Aspen | Poletimber Well | 79.1 | 26 | | Scattered wet areas within the stand. |
| 32 | 6120 - Lowland Cedar | Sawtimber Well | 47.0 | 112 | 171-200 | Located in the Dead Stream Swamp NNL. Heavy blow down in areas. Cedar looks healthier than in surrounding stand. |
| 33 | 6120 - Lowland Cedar | Poletimber Well | 623.3 | 97 | 81-110 | Located in the Dead Stream Swamp NNL. Very wet cedar/black spruce stand. There are pockets of cedar die back in some areas. More black spruce to the west of the stand and scattered super canopy white pine throughout. |
| 34 | 6119 - Mixed Lowland Deciduous Forest | Sapling Well | 20.6 | 47 | 1-50 | Located in the Dead Stream Swamp NNL. Strip cuts in a cedar stand. Lots of paper birch and red maple. Very wet. |
| 36 | 6121 - Tamarack | Sapling Poor | 27.8 | 25 | Immature | Located in the Dead Stream Swamp NNL. Very wet. Looks like a wet opening that has been filling in with lowland tree species. |



| | Level 4 Cover Type | Size Density | Acres | Stand Age | BA Range | General Comments: |
|----|--------------------------------|----------------------|-------|--------------|-------------|---|
| 39 | 4130 - Aspen | Sapling Well | 8.0 | 18 | Immature | Located in the Dead Stream Swamp NNL. Some scattered saw log sized oak. |
| 42 | 4136 - Aspen, Mixed Conifer | Poletimber Well | 5.4 | 51 | Unspecified | Located in the Dead Stream Swamp NNL. Transitions to lowland to the north and east. Continues into the next compartment to the south. |
| 45 | 42210 - Natural Red Pine | Sawtimber Well | 17.7 | 94 | 171-200 | Located in the Dead Stream Swamp NNL. Natural red pine stand. |
| 46 | 6124 - Lowland Spruce- Fir | Poletimber Medium | 17.5 | 76 | Unspecified | Located in the Dead Stream Swamp NNL. Wet, lowland stand with no road access. Portions burned in 1984. |
| 49 | 4133 - Aspen, Mixed Pine | Sapling Well | 14.9 | 34 | Unspecified | Located in the Dead Stream Swamp NNL. 2 acre white/red pine pocket in NW of stand. |
| 50 | 6122 - Black Spruce | Poletimber Well | 58.7 | 66 | 51-80 | Located in the Dead Stream Swamp NNL. Lowland black spruce stand with high ground ridges of natural red pine. |
| 51 | 42290 - Natural Mixed Pine | Poletimber Medium | 25.0 | 94 | 51-80 | Located in the Dead Stream Swamp NNL. Upland stand transitioning to lowland to the south and east. Jack pine is old and falling apart. |
| 52 | 42140 - Planted Mixed Pine | Poletimber Well | 10.0 | 57 | 141-170 | Planted in 1960. Mix of white pine, red pine, jack pine. Contains some pockets of solid red pine. Located in the Dead Stream Swamp NNL. |
| 55 | 4130 - Aspen | Poletimber Well | 5.3 | 48 | Unspecified | Located in the Dead Stream Swamp NNL. Upland aspen stand on a high ground ridge in the middle of a swamp. No access without crossing the dead stream. Previous inventory shows a stand comprised mostly of pole size quaking aspen, with lesser amounts of red maple and log size red pine. |
| 57 | 42100 - Planted White Pine | Poletimber Well | 9.7 | 57 | 141-170 | Located in the Dead Stream Swamp NNL, on a ridge of high ground. White pine stand was planted in 1960, the same time as the stand to the south, when a bridge crossed the Dead Stream. |
| 58 | 42210 - Natural Red Pine | Sawtimber Well | 6.6 | 94 | 141-170 | Located in the Dead Stream Swamp NNL. North end of stand is almost entirely red pine, with the south being a mix with heavier spruce component. |
| 59 | 6122 - Black Spruce | Poletimber Well | 4.9 | 67 | Unspecified | Located in the Dead Stream Swamp NNL. Spruce stand located on a high ground ridge transitioning to lowland and continues to the stand to the north. No access via road. Inventory data from 2007 shows a mix of black spruce, white pine, and balsam poplar, with lesser amounts of red maple. |



| | Level 4 Cover Type | Size Density | Acres | Stand Age | BA Range | General Comments: |
|----|--|-------------------|-------|--------------|-------------|--|
| 60 | 42110 - Planted Red Pine | Poletimber Well | 20.5 | 59 | 201+ | First time stand has been inventoried. Clean understory red pine with the majority of the understory occurring along Gillow Road and in frost pockets. Appears to have been treated once with a "take one row, leave four" thinning. Remaining rows have 6' spacing. |
| 62 | 6122 - Black Spruce | Poletimber Well | 13.7 | 62 | 141-170 | Mix of black spruce, red and jack pine. Basal area varies widely throughout stand. |
| 64 | 6122 - Black Spruce | Sapling Poor | 65.8 | 30 | Immature | Located in the Dead Stream Swamp NNL. Very wet ground with lots of tag alder and willow, with some black spruce and tamarack saplings. |
| 65 | 42210 - Natural Red Pine | Poletimber Well | 2.1 | 61 | 81-110 | Located in the Dead Stream Swamp NNL. Narrow strip of natural red pine surrounded by lowland. No access. |
| 66 | 4134 - Aspen, Spruce/Fir | Poletimber Well | 88.9 | 36 | Unspecified | Dead Stream Swamp NNL. Strips of black spruce and wet areas throughout. A few large white pine scattered about stand. Southern edge is heavy to tag alder. |
| 67 | 6129 - Mixed Coniferous Lowland Forest | Poletimber Medium | 48.3 | 92 | Unspecified | Located in the Dead Stream Swamp NNL. Stand continues to the east and south into different compartments. A mix of lowland species including cedar, black spruce, tamarack, balsam fir, and red maple. |
| 68 | 4123 - Red Oak | Sawtimber Well | 2.3 | 92 | 81-110 | Small, mature oak stand in the middle of aspen. |
| 69 | 4123 - Red Oak | Sawtimber Well | 66.2 | 94 | 81-110 | Aspen regeneration in pockets throughout the stand. Heavy deer browse. |
| 70 | 4123 - Red Oak | Sawtimber Well | 5.7 | 91 | 111-140 | Some topography within the stand. Slopes upward to the south. |
| 71 | 4199 - Other Mixed Upland Deciduous | Sawtimber Well | 5.1 | 86 | 111-140 | |
| 73 | 4131 - Aspen, Oak | Sawtimber Well | 6.2 | 79 | 111-140 | Stand is heavier to aspen towards the east, with scattered aspen found throughout the rest of the stand. Heavy deer browse on the oak regeneration. |
| 74 | 6121 - Tamarack | Sapling Medium | 10.9 | 25 | Immature | Located in the Dead Stream Swamp NNL. Very wet stand. Appears to be a wet opening filling in with lowland tree species. |
| 75 | 4130 - Aspen | Sawtimber Well | 7.3 | 57 | Unspecified | Nice aspen stand. Red pine pocket along pipeline south side. |
| 76 | 4311 - Pine, Aspen Mix | Sawtimber Well | 19.2 | 74 | 111-140 | Mixed pine, aspen, and oak stand. Basal area plots of 130, 150, 110, and 180. |



| Stand | Cover Type | Acres | Managed Site | General Comments: |
|-------|-------------------------|-------|--------------|---|
| 11 | 3102 - Grass | 3.4 | No | |
| 15 | 3102 - Grass | 1.0 | No | Grass opening on edge of gravel pit. |
| 16 | 3102 - Grass | 7.0 | No | Pipeline. |
| 35 | 622 - Lowland Shrub | 85.5 | No | Dead Stream Swamp NNL. Very wet area around Bear Lake and the Dead Stream. |
| 38 | 6220 - Alder/willow | 21.8 | No | Located in the Dead Stream Swamp NNL. Open wet area that is a continuation of the stand to the north. Tag alder with areas of tamarack. |
| 40 | 500 - Water | 1.1 | No | Open water. |
| 41 | 500 - Water | 32.7 | No | Bear Lake |
| 43 | 6220 - Alder/willow | 5.7 | No | Located in the Dead Stream Swamp NNL. Open wet area that is a continuation of the stand to the north. Tag alder with areas of tamarack. |
| 48 | 622 - Lowland Shrub | 21.2 | No | |
| 54 | 330 - Low-Density Trees | 5.2 | No | Located in the Dead Stream Swamp NNL. Stand is located on a high ground ridge with lowland on either side. A low density of trees within a grass opening. |
| 54 | 330 - Low-Density Trees | 5.2 | No | Located in the Dead Stream Swamp NNL. Stand is located on a high ground ridge with lowland on either side. A low density of trees within a grass opening. |
| 54 | 330 - Low-Density Trees | 5.2 | No | Located in the Dead Stream Swamp NNL. Stand is located on a high ground ridge with lowland on either side. A low density of trees within a grass opening. |
| 54 | 330 - Low-Density Trees | 5.2 | No | Located in the Dead Stream Swamp NNL. Stand is located on a high ground ridge with lowland on either side. A low density of trees within a grass opening. |
| 54 | 330 - Low-Density Trees | 5.2 | No | Located in the Dead Stream Swamp NNL. Stand is located on a high ground ridge with lowland on either side. A low density of trees within a grass opening. |
| 54 | 330 - Low-Density Trees | 5.2 | No | Located in the Dead Stream Swamp NNL. Stand is located on a high ground ridge with lowland on either side. A low density of trees within a grass opening. |
| 54 | 330 - Low-Density Trees | 5.2 | No | Located in the Dead Stream Swamp NNL. Stand is located on a high ground ridge with lowland on either side. A low density of trees within a grass opening. |



| Stand | Cover Type | Acres | Managed Site | General Comments: |
|-------|-------------------------|-------|--------------|---|
| 54 | 330 - Low-Density Trees | 5.2 | No | Located in the Dead Stream Swamp NNL. Stand is located on a high ground ridge with lowland on either side. A low density of trees within a grass opening. |
| 54 | 330 - Low-Density Trees | 5.2 | No | Located in the Dead Stream Swamp NNL. Stand is located on a high ground ridge with lowland on either side. A low density of trees within a grass opening. |
| 54 | 330 - Low-Density Trees | 5.2 | No | Located in the Dead Stream Swamp NNL. Stand is located on a high ground ridge with lowland on either side. A low density of trees within a grass opening. |
| 54 | 330 - Low-Density Trees | 5.2 | No | Located in the Dead Stream Swamp NNL. Stand is located on a high ground ridge with lowland on either side. A low density of trees within a grass opening. |
| 54 | 330 - Low-Density Trees | 5.2 | No | Located in the Dead Stream Swamp NNL. Stand is located on a high ground ridge with lowland on either side. A low density of trees within a grass opening. |
| 54 | 330 - Low-Density Trees | 5.2 | No | Located in the Dead Stream Swamp NNL. Stand is located on a high ground ridge with lowland on either side. A low density of trees within a grass opening. |
| 54 | 330 - Low-Density Trees | 5.2 | No | Located in the Dead Stream Swamp NNL. Stand is located on a high ground ridge with lowland on either side. A low density of trees within a grass opening. |
| 54 | 330 - Low-Density Trees | 5.2 | No | Located in the Dead Stream Swamp NNL. Stand is located on a high ground ridge with lowland on either side. A low density of trees within a grass opening. |
| 54 | 330 - Low-Density Trees | 5.2 | No | Located in the Dead Stream Swamp NNL. Stand is located on a high ground ridge with lowland on either side. A low density of trees within a grass opening. |
| 54 | 330 - Low-Density Trees | 5.2 | No | Located in the Dead Stream Swamp NNL. Stand is located on a high ground ridge with lowland on either side. A low density of trees within a grass opening. |
| 54 | 330 - Low-Density Trees | 5.2 | No | Located in the Dead Stream Swamp NNL. Stand is located on a high ground ridge with lowland on either side. A low density of trees within a grass opening. |
| 54 | 330 - Low-Density Trees | 5.2 | No | Located in the Dead Stream Swamp NNL. Stand is located on a high ground ridge with lowland on either side. A low density of trees within a grass opening. |
| 54 | 330 - Low-Density Trees | 5.2 | No | Located in the Dead Stream Swamp NNL. Stand is located on a high ground ridge with lowland on either side. A low density of trees within a grass opening. |
| 56 | 6222 - Shrub-Carr | 113.4 | No | |
| 61 | 6220 - Alder/willow | 12.2 | No | Located in the Dead Stream Swamp NNL. No access across the Dead Stream. Stand is a continuation of the stand to the north. Very wet with tag alder. |
| 63 | 622 - Lowland Shrub | 11.4 | No | Located in the Dead Stream Swamp NNL. Very wet and shrubby. |
| 72 | 500 - Water | 22.1 | No | Dead Stream. |