

Compartment Review Presentation

Cadillac Forest Management Unit

Compartment 37

Entry Year 2016 Acreage: 1,875

County Lake

Management Area: Lake County Outwash

Revision Date: 06/03/2014

Stand Examiner: Cheryl Nelson

Legal Description:

T19N R12W Sections 20, 29, 32

Identified Planning Goals:

Vegetation management in the Lake County Outwash 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 harvesting older jack pine and balancing the age-class distribution of aspen. Wildlife habitat management objectives include perpetuating early-successional communities for species adapted to young forests for hunting and other wildlife-related recreation; maintaining soft and hard mast sources including oak; and preserving related recreational opportunity.

Expected trends within this 10-year planning period are the need to minimize jack pine budworm damage by reducing the amount of more susceptible older jack pine; the need to regenerate oak and red pine; the need to target some accessible aspen in older age-classes for harvest; and increased recreational pressure.

Soil and topography:

Graycalm-Grayling sands: Nearly level and undulating, somewhat excessively drained Graycalm soils and excessively drained Grayling soils. The steepest terrain including the Graycalm-Grayling sands is located on the west side of the compartment. Tawas-Roscommon association: Nearly level, very poorly drained soils in drainage-ways and bogs generally found on the east side of the compartment.

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

The compartment is surrounded by other state lands with the exception of one small private parcel in the NWNW of section 32.

Unique Natural Features:

E. Massasauga just west of the southwest corner of section 20, E. Massasauga to south. Great blue heron rookery just east of compartment. Wood turtle to northwest, Karner blue butterfly to west, Eagle to northwest, Loon to northeast and northwest, Hill's thistle to west. Potential for Karner blue butterfly, persius duskywing, frosted elfin, dusted skipper, grizzled skipper and red legged spittlebug in grassy openings. Potential for E. massasauga, Blanding's turtle, eastern box turtle and great blue heron rookery.

Archeological, Historical, and Cultural Features:

No Archeological, Historical, or Cultural Features known.

Special Management Designations or Considerations:

Watershed and Fisheries Considerations:

The headwaters of the Baldwin River are in this Compartment. The Baldwin River is a Designated Trout Stream, and supports populations of brown trout, brook trout, rainbow trout (steelhead), coho salmon, and chinook salmon. BMPs should be followed for any treatments near flowing water in the Compartment.

Wildlife Habitat Considerations:

The Baldwin-Luther Swamp is a large component of this Management Area and comprises the eastern part of this compartment. This swamp is a core area for bear populations in the southern part of the Baldwin Bear Management Unit and is an important deeryard area. In addition, it is a proposed eastern massasauga rattlesnake (EMR) management area. Heavy concentrations of deer during the winter and spring cause serious regeneration problems for oak and aspen management surrounding the swamp. High water tables and windthrow have created problems with the regenerating of swamp conifers and desirable hardwoods within the swamp. Treatments within the proposed EMR area should follow those guidelines. Overall, wildlife goals are to maintain lowland conifer and to promote oak and aspen adjacent to lowlands. Creation of brush piles near lowlands, protection of mast bearing shrubs and provision of coarse woody debris are also

desired. Seek opportunities to promote a mix of cover types including non-forested or barrens areas in addition to larger stands of older age and variable age classes with vertical structure. Featured species of special interest are marten, eastern massasauga rattlesnake, snowshoe hare, deer, black bear, and red-headed woodpecker. (E. Victory 7/18/14)

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of an end moraine of coarse-textured till and minor glacial outwash sand and gravel and postglacial alluvium. The glacial drift thickness varies between 400 and 600 feet. Beneath the glacial drift is the Mississippian Michigan Formation. The Michigan Formation is quarried for gypsum in other areas of the State. Gravel pits are found two miles to the east and potential is considered good on the upland areas. This compartment is located in an area sparsely drilled for oil and gas. The nearest good production is Peacock Field located five miles to the west. Peacock Field has produced over 1.6 million BO from the Devonian Traverse Limestone. None of the compartment is currently leased for oil and gas development.

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:

None needed.

Recreational Facilities and Opportunities:

A variety of motorsport recreational trails track North/South through the center of this compartment. For winter use, there is 3.3 miles of snowmobile trail (#344E). Summer use includes 3.3 miles of Little Manistee ORV route, which is adjacent/intertwined with 4 miles of Little Manistee motorcycle trail. Due to the wet nature of this compartment, along with centralized location of the ORV route and snowmobile trail--both these recreational trails are likely the most suitable haul routes for timber harvest activities. Timber sale specifications should include trail protection provisions that address both summer and winter motorized recreational activities. The motorcycle trail is designed to be narrow (24 inches at ground level, 40 inches at handlebar height) to provide a unique motorcycling experience, as well as deter larger unwanted ORV's from accessing state lands. Where practical, recommend leaving or protecting trees that provide a narrow corridor to dissuade larger vehicles from entering the motorcycle trail. Hunting and fishing opportunities exist within this compartment. (T.M.N. 3/14)

Fire Protection:

Numerous conifer stands mixed with lowland fuel types can create control problems for suppression forces. Fuel types in this compartment would support large fire within this area. With several miles of off road vehicle trails, the potential for a wildfire occurance is increased. BET5-14

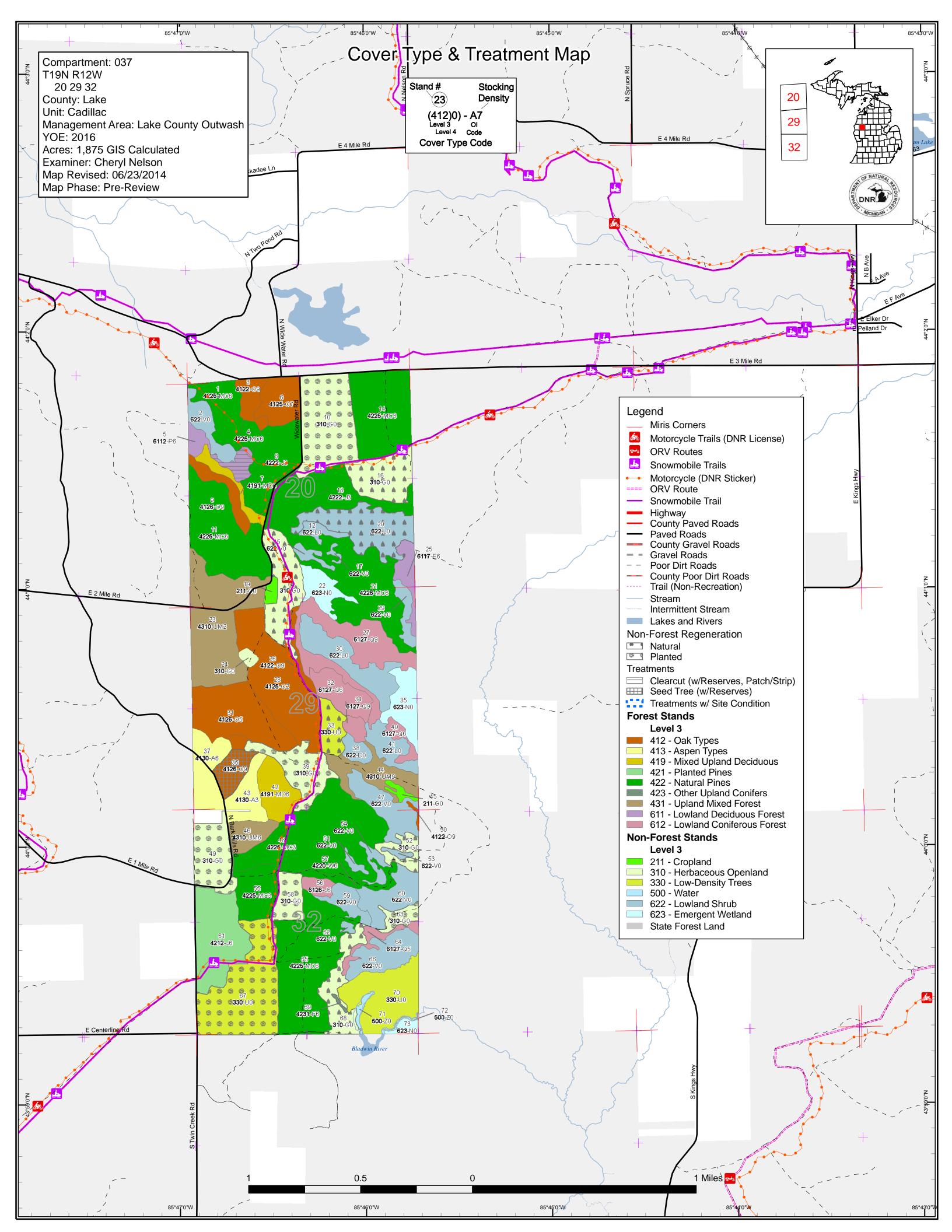
Additional Compartment Information:

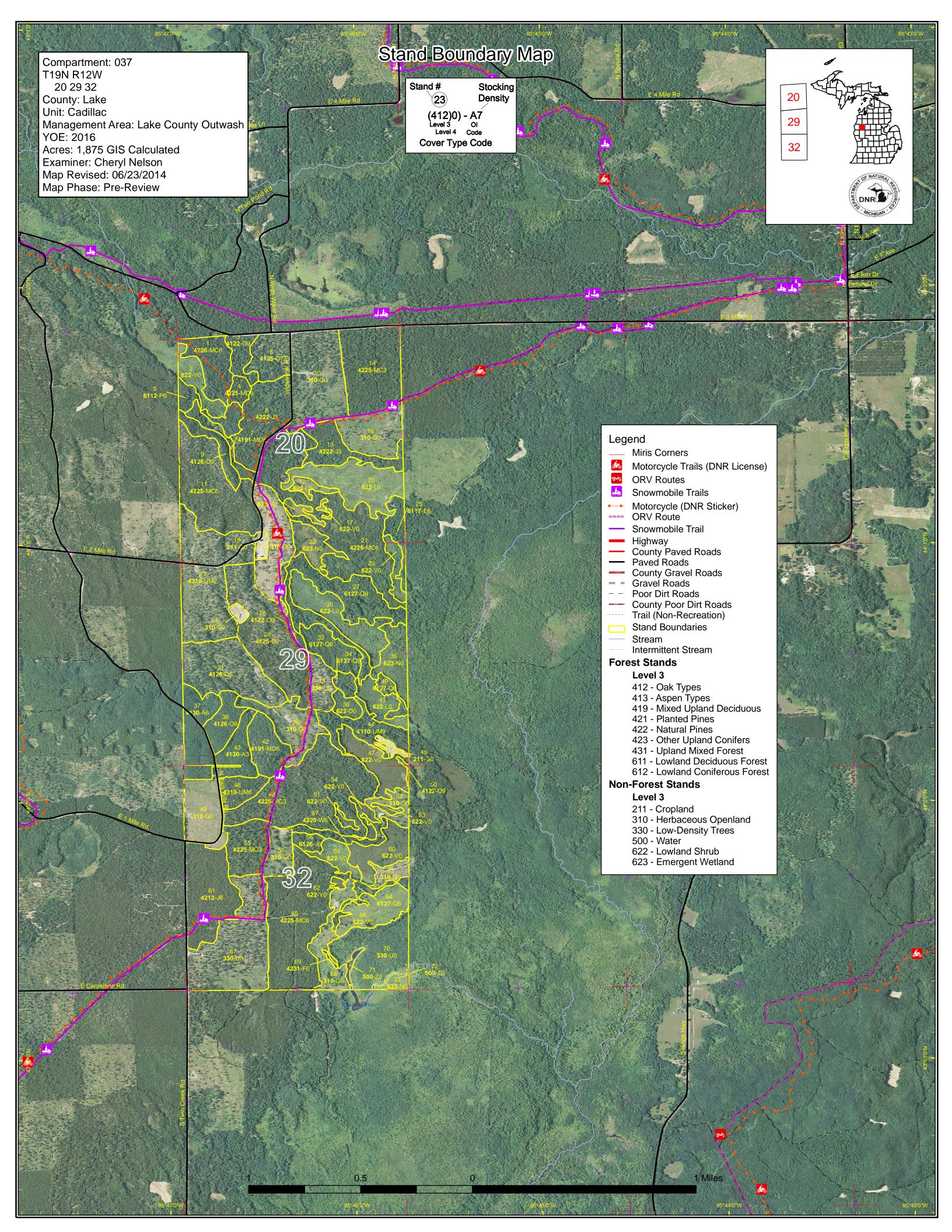
The following reports from the Inventory are attached:

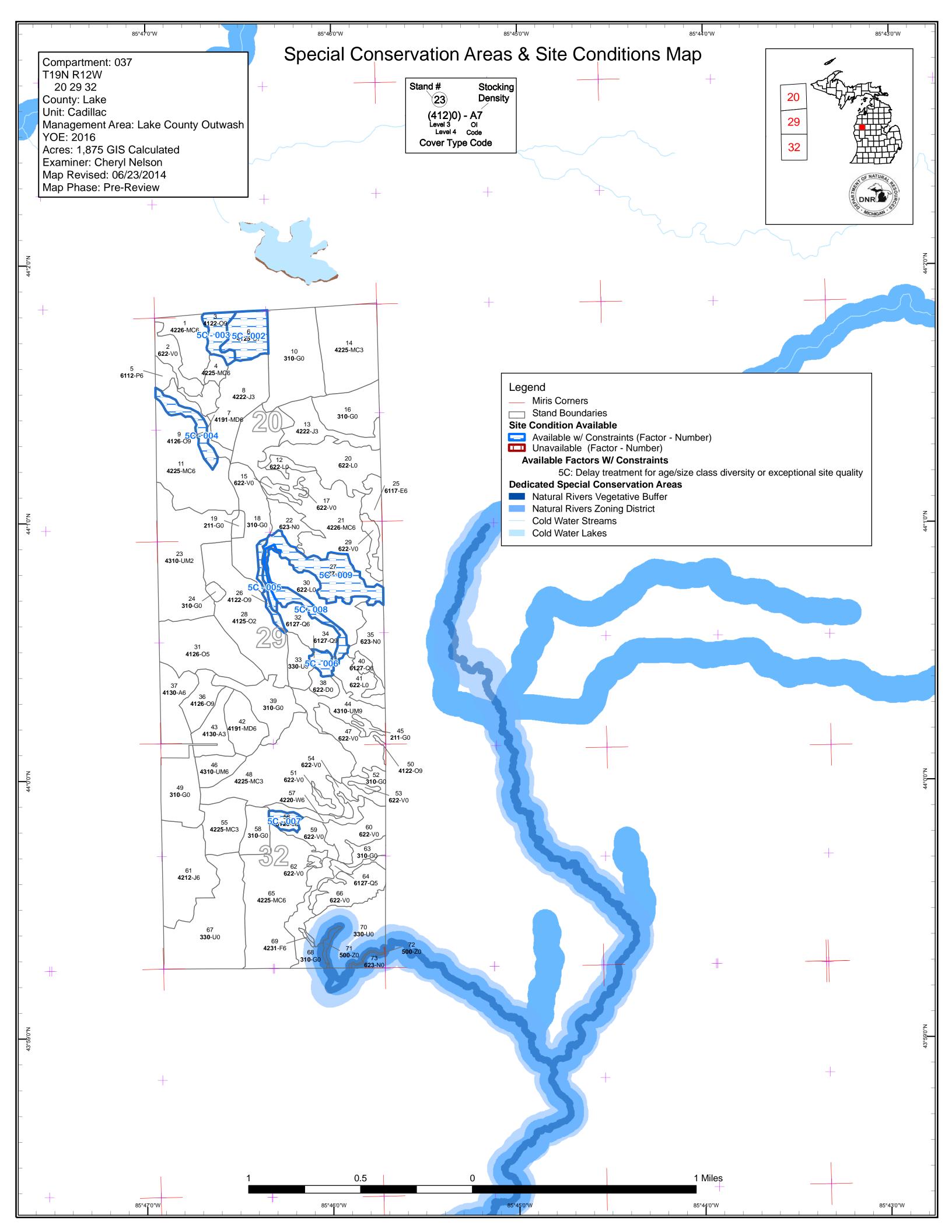
Total Acres by Cover Type and Age Class
Cover Type by Harvest Method
Proposed Treatments – No Limiting Factors
Proposed Treatments – With Limiting Factors
Stand Details (Forested and Nonforested)
Dedicated and Proposed Special Conservation Areas
Site Condition Details

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 037 Year of Entry 2016

Cheryl Nelson : Examiner

Cadillac Mgt. Unit



Age Class

| | Age Class | | | | | | | | | | | | | | | |
|-----------------------------|-----------|-----|------|-------|--------|-------|--------|-----|-----|--------|-----|-------|----------------------|---|-------|---------|
| | | 8.0 | 0,70 | 20.02 | , or . | DO DO | \$ 05° | 800 | 100 | \$ 8 S | 999 | 00,00 | , 10, 7 ₀ | , | A A A | , *** / |
| Aspen | 0 | 0 | 0 | 49 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 49 | ſ |
| Bog | 133 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 133 | |
| Cropland | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | |
| Herbaceous Openland | 263 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 263 | |
| Jack Pine | 0 | 0 | 126 | 0 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 132 | |
| Low-Density Trees | 144 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 144 | |
| Lowland Aspen/Balsam Poplar | 0 | 0 | 0 | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 15 | |
| Lowland Conifers | 0 | 0 | 0 | 0 | 0 | 15 | 22 | 0 | 59 | 0 | 0 | 0 | 0 | 0 | 97 | |
| Lowland Deciduous | 0 | 0 | 0 | 0 | 0 | 0 | 13 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 13 | |
| Lowland Shrub | 104 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 104 | |
| Marsh | 42 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 42 | |
| Mixed Upland Deciduous | 0 | 0 | 0 | 23 | 0 | 0 | 0 | 0 | 10 | 0 | 0 | 0 | 0 | 0 | 33 | |
| Natural Mixed Pines | 0 | 201 | 166 | 98 | 0 | 0 | 27 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 493 | |
| Oak | 0 | 74 | 0 | 0 | 0 | 0 | 0 | 0 | 75 | 54 | 0 | 0 | 0 | 0 | 204 | |
| Treed Bog | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | |
| Upland Mixed Forest | 84 | 0 | 0 | 14 | 0 | 0 | 0 | 26 | 0 | 0 | 0 | 0 | 0 | 0 | 124 | |
| Upland Spruce/Fir | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | |
| Water | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | |
| White Pine | 0 | 0 | 0 | 0 | 0 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 11 | |
| Total | 788 | 275 | 292 | 200 | 0 | 26 | 68 | 26 | 145 | 54 | 0 | 0 | 0 | 0 | 1875 | l |
| | _ | - | - | - | | - | - | - | - | | _ | - | - | | | * |



Report 2 – Proposed Treatment Summaries

Cadillac Mgt. Unit Year of Entry 2016

Compartment 037 **Total Compartment Acres: 1,875**

Acres by Treatment Type

Commercial Harvest - 22

Tree Planting - 0

Other - 0

Habitat Cut - 0

Opening Maintenance - 7

| | | | Cov | er Typ | oe by F | larves | t Meth | od | |
|--------------------------|-------|---|----------|--------|---------|--|-----------|----|--|
| | | / | Model of | 100 O | 100 S | Sie de la constant de | Otto Otto | | So Property of the Property of |
| Lowland Deciduous Forest | | 8 | 0 | 0 | 0 | 0 | 0 | 8 | |
| Oak Types | | 0 | 0 | 15 | 0 | 0 | 0 | 15 | |
| | Total | 8 | 0 | 15 | 0 | 0 | 0 | 22 | |

Cadillac Mgt. Unit

Report 3 -- Treatments Prescribed with No Limiting Factor

Compartment: 037 Year of Entry 2016

| a n d | Treatment Name | Acres | CoverType | Size Density | Stand Age | BA Range | Treatment Type | Treatment Method | Cover Type Objective | Approval Status |
|-------------|-------------------|-------|-------------------------|-------------------------|--------------|-------------|-------------------|---------------------------|-------------------------|--------------------------|
| 5 | 63037005-Cut | 7.6 | 6112 - Lowland Aspen | High Density Pole | 38 | 1-50 | Harvest | Clearcut with Reserves | 6112 - Lowland Aspen | Cmpt. Review Proposal |

Specs:

S

Prescription Cut all aspen and red maple. Use Grouse Spec. 5.2.4.4 - Leave one, 8" diameter or larger log-length (8 foot minimum) piece on the ground for every 2 acres, also leave at least six (6) large tops in a single pile and at least one pile per acre. Keep the boundary to the south of the ORV Trail. Use the area between the boundary line and the ORV Trail as retention.

Other

Commercial or Habitat cut.

Comments:

<u>Next</u> Steps:

Proposed

Start Date: 10/01/2015

63037036-Cut

14.6 4126 - White,

High Black, N. Pin Oak Density Log

111-140 85

Harvest

Seed Tree with Reserves

4129 - Mixed Oak

Cmpt. Review Proposal

Specs:

Prescription Cut all species. Mark to leave a mix of species averaging 20-30 BA. Use Grouse Spec. 5.2.4.4 - Leave one, 8" diameter or larger log-length (8 foot minimum) piece on the ground for every 2 acres, also leave at least six (6) large tops in a single pile and at least one pile per acre. Focus retention along Bark Hills Road. Acceptable regen is a mix of upland deciduous species.

Other_ Comments:

<u>Next</u> Steps:

Proposed

10/01/2015 Start Date:

19 NF 63037019-NonFor

3.7 2113 - Forage Crops

Non-Forest Management Other - Specify

310 - Herbaceous Openland

Cmpt. Review Decision -Incomplete

Prescription General habitat manipulation for non-forested, herbaceous type. Treatments may include manual or mechanical removal/manipulation of woody plants, prescribed fire, use of herbicides, tillage, and planting herbaceous and or mast producing plants. Specs:

Other_

Comments:

Next Steps:

Proposed

Unspecified Start Date:

NF 63037024-24 NonFor

31021 - Cool Season Grass

3.2

Non-Forest Management Other - Specify

310 - Herbaceous Openland

Cmpt. Review Decision -Incomplete

Prescription General habitat manipulation for non-forested, herbaceous type. Treatments may include manual or mechanical removal/manipulation of woody plants, prescribed fire, use of herbicides, tillage, and planting herbaceous and or mast producing plants. Specs:

Other

Comments:

<u>Next</u> Steps:

Proposed

Start Date: Unspecified

Total Treatment

29.1 **Acreage Proposed:**

Cadillac Mgt. Unit Report 4 -- Treatments Prescribed with Compartment: 037 a Site Condition s Year of Entry 2016 t **Treatment** Acres CoverType Size Stand ВА **Treatment Treatment Cover Type Approval** n Objective Method Status Name Range Density Age Type #Type! #Type! **Prescription** Specs: Other Comment: **Next** Steps: <u>Proposed</u> #Type!

Total Treatment

Start Date: # Limiting Factor

Acreage Proposed: 0.0

Cadillac Mgt. Unit

Cheryl Nelson: Examiner

Compartment 037 Year of Entry 2016

Availability for Management Total Acres Acres Dominant Site Conditions

| Acres | Available | Not Available | | No | 5C |
|-------|-----------|---------------|-----------------------------|-------|-----|
| 49 | 49 | | Aspen | 49 | |
| 132 | 132 | | Jack Pine | 126 | 6 |
| 15 | 15 | | Lowland Aspen/Balsam Poplar | 15 | |
| 96 | 96 | | Lowland Conifers | 37 | 59 |
| 13 | 13 | | Lowland Deciduous | 13 | |
| 33 | 33 | | Mixed Upland Deciduous | 33 | 0 |
| 493 | 493 | | Natural Mixed Pines | 492 | 0 |
| 204 | 204 | | Oak | 149 | 54 |
| 124 | 124 | | Upland Mixed Forest | 124 | |
| 1 | 1 | | Upland Spruce/Fir | 1 | |
| 11 | 11 | | White Pine | 11 | |
| 1,170 | 1,170 | | Total Forested Acres | 1,050 | 120 |
| | 100% | | 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.

| Comments: 003 Available 5C: De age/size | age/size class diversity o exceptional site quality | | | |
|--|--|---------|--|--|
| 003 Available 5C: De | age/size class diversity o | 10 | | |
| age/size | age/size class diversity o | 10 | | |
| | | 13 r | | |
| Comments: | | | | |

Cadillac Mgt. Unit
Cheryl Nelson: Examiner

Compartment 037 Year of Entry 2016

| 004 | Available | 5C: Delay treatment for age/size class diversity or exceptional site quality | 13 |
|-----|-----------|--|----|
| Co | omments: | | |
| 005 | Available | 5C: Delay treatment for age/size class diversity or exceptional site quality | 6 |
| Co | omments: | | |
| 006 | Available | 5C: Delay treatment for age/size class diversity or exceptional site quality | 6 |
| Co | omments: | | |
| 007 | Available | 5C: Delay treatment for age/size class diversity or exceptional site quality | 6 |
| Co | omments: | | |
| 008 | Available | 5C: Delay treatment for age/size class diversity or exceptional site quality | 14 |
| Co | omments: | | |
| 009 | Available | 5C: Delay treatment for age/size class diversity or exceptional site quality | 41 |
| Co | omments: | | |

Cadillac Mgt. Unit Compartment: 037

Year of Entry: 2016

Report 6 - 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 | | | | |
| | | | | |

Cadillac Mgt. Unit Compartment: 037
Year of Entry 2016





* 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.

| Conservation Area | on Type | Description | ERA = Ecological Reference Area HCVA = High Conservation Value Area SCA = Special Conservation Area |
|-------------------|------------------------|--|--|
| SCA | Archaeological Site | An aquatic or terrestrial area of the State that contains physical r sites of cultural and historical significance that may occur upon to bottomlands. They include thousands of Native American settlen and British outposts, nineteenth century logging camps, mines at the Great Lakes, there are shipwrecks and other remains documbe identified by Natural heritage data from the State Historic Prethis compartment will be implemented in such a manner as to mathe sensitive nature of this information, no further detail about log | errestrial areas and Great Lakes nents and burial sites, as well as French and homesteads. Beneath the waters of tenting the maritime trade. Such sites may servation Office. Proposed treatments in taintain the integrity of these sites. Due to |
| SCA | Cold Water Lake | A coldwater lake has temperature and dissolved oxygen condition stocked trout populations and those of other coldwater fish specific conditions for coldwater fishes may occur in Michigan lakes if the groundwater inflows, or are located in colder (northern) areas of Director's action and designated as trout resources by Fisheries | ies to persist from year to year. Suitable ey are relatively deep, have substantial the state. Such lakes are established by |
| SCA | Cold Water Stream | A coldwater stream has temperature and dissolved oxygen cond stocked trout populations and those of other coldwater fish speci year to year. Coldwater streams in Michigan typically provide the contributions of groundwater to their stream flows. Such streams designated as trout resources by Fisheries Order 210. | ies (e.g., slimy sculpin) to persist from see conditions due to substantial |
| SCA | Habitat Area | An area that provide some specific need for the life cycle of wildle and Waterfowl Production Areas, deer wintering complexes in lo openings and savannas. Habitat areas are distinct from critical hendangered or threatened species (such as Kirtland's warbler or general in nature, are not primarily associated with threatened or covered by species recovery plans that are developed in cooperations. | wland conifer communities, grassland abitat designated for recovery of piping plover areas) in that they are more rendangered species, and are not |
| SCA | Riparian Area | A transitional area between aquatic and terrestrial ecosystems in influences the aquatic ecosystem and vice-versa. Because of the streams and open water wetlands, riparian areas harbor a high communities are ecologically and socially significant in their effects as aesthetics, habitat, bank stability, timber production, and their | e unique conditions adjacent to lakes, diversity of plants and wildlife. Riparian cts on water quality and quantity, as well |
| HCVA | Natural Rivers | There are two Natural Rivers datasets which are derived from spapproved distance from the river centerlines. The Natural Rivers most Natural Rivers. The Vegetative Buffer ranges from 25 to 10 and Vegetative Buffers for each Natural River see the table locat folder. | S Zoning District is a 400 foot buffer for 00 feet. To view specific Zoning Districts |

| s t | Cadillac | | Report 8 | – Forested | Stands Compartment: 037 Year of Entry: 2016 | |
|-------------|--|-------------------------|----------|--------------|---|---|
| a n d | Level 4 Cover Type | Size Density | Acres | Stand Age | BA Range | General Comments: |
| 1 | 42260 - Natural Pine, Mixed Deciduous | High Density Pole | 26.9 | 65 | 81-110 | W6 stand with both pockets and individually scattered oak and red maple. Few overstory red and white pine approximately 20" DBH and a very small amount of aspen. |
| 3 | 4122 - Oak, Pine | High Density Log | 12.8 | 94 | 51-80 | Scattered pockets of oak and pine with open areas throughout. Overall a mixed oak and pine stand. |
| 4 | 42250 - Pine, Oak | High Density Pole | 6.4 | 37 | 51-80 | Stand varies in species densities with scattered pockets throughout. Small amount of aspen not in plots. |
| 5 | 6112 - Lowland Aspen | High Density Pole | 14.5 | 38 | 1-50 | |
| 6 | 4125 - Black, N. Pin Oak | Low Density Log | 23.2 | 90 | 1-50 | Stand treated timber sale #63-024-06-01, "Jungle Jack". All oak left in stand. Previous year of origin for treated jack pine was 1954. |
| 7 | 4191 - Mixed Upland Deciduous with Conifer | High Density Pole | 10.0 | 87 | 51-80 | |
| 8 | 42221 - Natural Jack Pine, Mixed Deciduous | High Density Sapling | 43.2 | 21 | 1-50 | Stand treated timber sale #63-005-93-01, "Trail Corners Sale". Sale Spec: Do not cut any oak. Leave one mature jack pine every 75', approx. 8 trees per acre. |
| 9 | 4126 - White, Black, N. Pin Oak | High Density Log | 12.8 | 90 | 51-80 | Ridgetop and north facing slope. Do not treat. |
| 11 | 42250 - Pine, Oak | High Density Pole | 70.2 | 19 | 1-50 | Stand treated timber sale #63-007-93-01. |
| 13 | 42220 - Natural Jack Pine | High Density Sapling | 27.5 | 20 | | Stand treated timber sale #63-005-93-01, "Trail Corners". Cut in 1994. |
| 14 | 42250 - Pine, Oak | High Density Sapling | 62.2 | 21 | | Stand treated timber sale #63-002-93-01, "Deer Skull Sale". Cut in 1993. Excellent regen. |
| 21 | 42260 - Natural Pine, Mixed Deciduous | High Density Pole | 104.0 | 26 | 1-50 | |
| 23 | 4310 - Pine, Oak Mix | Medium Density | 83.6 | 7 | | Stand treated timber sale #63-020-06-01, Bark Hills. Cut in 2007. All oak was left. Good regen north of Bark Hills Rd. |
| 25 | 6117 - Lowland Deciduous, Mixed Coniferous | High Density Pole | 12.6 | 65 | 1-50 | |
| 26 | 4122 - Oak, Pine | High Density Log | 5.6 | 95 | 1-50 | Ridge top and side hill. Slopes to lowland. |
| 27 | 6127 - Lowland Pine | High Density Log | 53.5 | 85 | 1-50 | |

| s t | Cadillac | Cadillac Mgt. Unit | | | – Forested | Stands Compartment: 037 Year of Entry: 2016 |
|-------------|---|-------------------------|-------|--------------|-------------|--|
| a n d | Level 4 Cover Type | Size Density | Acres | Stand Age | BA Range | General Comments: |
| 28 | 4125 - Black, N. Pin Oak | Medium Density | 74.0 | 19 | | Stand treated timber sale #63-012-93-01, "Bear Paw Jack Pine". Sale spec: Cut all jack pine. |
| 31 | 4126 - White, Black, N. Pin Oak | Medium Density Pole | 56.9 | 81 | 1-50 | Stand treated timber sale #63-063-07-01, The Bark Boot. Cut in 2009. Jack pine regeneration is low. |
| 32 | 6127 - Lowland Pine | High Density Pole | 22.3 | 60 | 1-50 | |
| 34 | 6127 - Lowland Pine | High Density Log | 5.8 | 85 | 1-50 | |
| 36 | 4126 - White, Black, N. Pin Oak | High Density Log | 17.5 | 85 | 111-140 | Moderate amount of smaller, suppressed oak. |
| 37 | 4130 - Aspen | High Density Pole | 28.0 | 39 | 1-50 | Previous inventory listed treatment in 1975 however, paperwork could not be found. |
| 40 | 6127 - Lowland Pine | High Density Pole | 6.7 | 50 | | |
| 42 | 4191 - Mixed Upland Deciduous with Conifer | High Density Pole | 23.2 | 30 | 1-50 | Previous inventory shows a treatment for stand in 1984. Current tree core confirms this age. |
| 43 | 4130 - Aspen | High Density Sapling | 20.8 | 31 | 1-50 | Stand treated timber sale #63-011-83-01, "Barkhill Oak". Cut in 1983. |
| 44 | 4310 - Pine, Oak Mix | High Density Log | 26.4 | 75 | 51-80 | Some low, wet areas in stand. |
| 46 | 4310 - Pine, Oak Mix | High Density Pole | 14.5 | 31 | 1-50 | Stand treated timber sale #63-011-83-01, "Barkhill Oak". Cut in 1983. |
| 48 | 42250 - Pine, Oak | High Density Sapling | 103.7 | 18 | | Stand treated timber sale #63-018-93-01, "Flying MJP". Cut in 1996. |
| 50 | 4122 - Oak, Pine | High Density Log | 1.0 | 85 | | Upland ridge. |
| 55 | 42250 - Pine, Oak | High Density Sapling | 27.5 | 18 | | Stand treated timber sale #63-018-93-01, "Flying MJP". Cut in 1996. |
| 56 | 6126 - Lowland Jack Pine | High Density Pole | 6.4 | 65 | 1-50 | |
| 57 | 42200 - Natural White Pine | High Density Pole | 11.1 | 52 | 1-50 | Upland ridge of white pine pulpwood with some mature oak, white, red, and jack pine. Do not treat for age class and species diversity. |
| 61 | 42121 - Planted Jack Pine, Mixed Deciduous | High Density Pole | 55.2 | 29 | 1-50 | Stand planted per FTP #C63-231, 1985. Wildfire burned through area in 1981 (exact location not known). |

| s t | Cadillad | Mgt. Unit | | кероп 8 | – Forested | Year of Entry: 2016 |
|-------------|------------------------|------------------------|-------|--------------|-------------|--|
| a n d | Level 4 Cover Type | Size Density | Acres | Stand Age | BA Range | General Comments: |
| 64 | 6127 - Lowland Pine | Medium Density Pole | 8.4 | 55 | 1-50 | Stand in good condition. Small amount of jack pine falling out of stand. |
| 65 | 42250 - Pine, Oak | High Density Pole | 91.9 | 35 | 1-50 | Stand trenched and planted to jack pine per FTP #C63-17 in 1979. Jack pine sizes and densities vary somewhat throughout stand. Stand mostly small pole with some large diameters in more open areas. |
| 69 | 42310 - Planted Spruce | High Density Pole | 0.8 | 32 | 1-50 | Stand planted to white spruce per FTP #W63-185 in 1982. Stand is slightly upland but surrounded by lowland areas. |

Report 9 - Nonforested Stands

Compartment: 037 Year of Entry: 2016



| Stand | Cover Type | Acres | Managed Site | Management Priority (Objective) | General Comments: |
|-------|-----------------------------------|-------|-----------------|------------------------------------|---|
| 2 | 6225 - Bog | 15.3 | Unspecified | Unspecified | |
| 10 | 3105 - Mixed Upland Herbaceous | 63.2 | Plantation | Jack Pine | Stand planted to jack pine per FTP #C63-704 in 2011. Stand treated timber sale "63-024-06-01, "Jungle Jack". Treated in 2009. Specs read: Do not cut oak and green painted trees. Good amount of seedling jack pine and oak. Oak stump sprouts. Overstory oak from treatment. |
| 12 | 6229 - Mixed lowland shrub | 6.0 | No | Unspecified | |
| 15 | 6225 - Bog | 4.7 | No | Unspecified | |
| 16 | 3105 - Mixed Upland Herbaceous | 32.8 | Natural Reger | n Jack Pine | Stand treated timber sale #63-024-006-01, "Jungle Jack". Sale specs: Do not cut any oak greater than 10" DBH. Do not cut any green painted trees. Jack pine in overstory is falling out. Occasional black oak log. |
| 17 | 6225 - Bog | 1.4 | No | Unspecified | |
| 18 | 3105 - Mixed Upland Herbaceous | 38.8 | Natural Reger | n Oak | Stand treated timber sale #63-007-11-01, "Little M Jack". Cut in 2011. Cut all trees except oak 10" DBH and greater. Do not cut green painted trees. Good amount of oak seedlings above snow. Occasional overstory jack pine. |
| 19 | 2113 - Forage Crops | 3.7 | Unspecified | Unspecified | |
| 20 | 6229 - Mixed lowland shrub | 45.4 | Natural Reger | n Jack Pine | Stand treated timber sale #63-039-06-01, Skeeter Holler. Cut in 2009. |
| 22 | 6230 - Cattail | 16.0 | No | Unspecified | Lowland complex comprised of cattails, tag alder, leatherleaf, and scattered conifer trees. |
| 24 | 31021 - Cool Season Grass | 3.2 | Unspecified | Unspecified | |
| 29 | 6225 - Bog | 8.7 | No | Unspecified | |
| 30 | 6229 - Mixed lowland shrub | 36.6 | No | Unspecified | Lowland complex comprised of cattails, tag alder, leatherleaf, and scattered conifer trees. |
| 33 | 3301 - Low Density Deciduous Tree | 14.8 | Natural Reger | n Jack Pine | Stand treated timber sale #63-007-11-01, "Little M Jack". Cut in 2011. Sale specs: Do not cut any green painted trees and do not cut any oak. Overstory oak approximately 8-9" DBH. |

Report 9 - Nonforested Stands

Compartment: 037 Year of Entry: 2016



| Stand | Cover Type | Acres | Managed Site | Management Priority (Objective) | General Comments: |
|-------|--------------------------------|-------|-----------------|---------------------------------|--|
| 35 | 6230 - Cattail | 21.4 | No | Unspecified | Lowland complex comprised of cattails, leatherleaf, mixed shrubs, and scattered deciduous and coniferous tree species. |
| 38 | 6224 - Treed Bog | 7.5 | No | Unspecified | Leatherleaf bog with scattered white pine, occasional black spruce. |
| 39 | 3105 - Mixed Upland Herbaceous | 31.2 | Plantation | Oak | Regen looks good. Trenched and planted red pine using 75% oak weave per FTP #C63-707. Stand treated timber sale #63-004-07-01, "Trouble Shooting Oak". Cut in 2010. Cut all trees except oak 4.5" DBH and under. Do not cut any green painted trees. |
| 41 | 6229 - Mixed lowland shrub | 16.5 | No | Unspecified | |
| 45 | 2113 - Forage Crops | 3.4 | Yes | High | Maintained Wildlife opening. |
| 47 | 6225 - Bog | 26.4 | No | Unspecified | |
| 49 | 3105 - Mixed Upland Herbaceous | 33.3 | Plantation | Red Pine | Stand treated timber sale #63-022-10-01, "Little M Jack". Cut in 2011. |
| 51 | 6225 - Bog | 2.6 | No | Unspecified | |
| 52 | 3105 - Mixed Upland Herbaceous | 11.4 | Natural Regen | Oak | Regen looks good. Trenched and planted red pine using 75% oak weave per FTP #C63-707. Stand treated timber sale #63-004-07-01, "Trouble Shooting Oak". Cut in 2010. Sale specs: Do not cut any oak 4.5" DBH and smaller. Do not cut any green painted trees. |
| 53 | 6225 - Bog | 2.2 | No | Unspecified | |
| 54 | 6225 - Bog | 5.9 | No | Unspecified | |
| 58 | 3105 - Mixed Upland Herbaceous | 15.9 | Plantation | Jack Pine | Regen looks good. Trenched and planted jack pine per FTP #C63-708 in 2010. Stand treated timber sale #63-017-06-01, "Furrows and Feathers". Cut in 2009. Sale specs: Do not cut any green painted trees. Do not cut any oak. |
| 59 | 6225 - Bog | 12.0 | No | Unspecified | Leatherleaf, cattails, and shrubs. |
| 60 | 6225 - Bog | 25.1 | No | Unspecified | Leatherleaf bog with some areas of white pine and spruce. |
| 62 | 6225 - Bog | 1.6 | No | Unspecified | |

Cadillac Mgt. Unit

Report 9 - Nonforested Stands

Compartment: 037 Year of Entry: 2016



| Stand | Cover Type | Acres | Managed Site | Management Priority (Objective) | General Comments: |
|-------|-----------------------------------|-------|-----------------|------------------------------------|--|
| 63 | 3105 - Mixed Upland Herbaceous | 8.2 | Plantation | White Pine | Stand treated timber sale #63-032-06-01, "Springtime Pine & Aspen". Cut in 2011. |
| 66 | 6225 - Bog | 26.7 | No | Unspecified | Leatherleaf bog with cattails, shrubs, and a small patch of open water. |
| 67 | 3301 - Low Density Deciduous Tree | 80.0 | Plantation | Jack Pine | Stand trenched and planted to jack pine per FTP #C63-708 in 2010. Stand treated per timber sale #63-017-06-01, "Furrows & Feathers". Cut in 2009. Sale specs: Do not cut any green ringed trees. Do not cut oak. |
| 68 | 3102 - Grass | 24.5 | Natural Reger | n White Pine | Stand treated timber sale #63-032-06-01, "Springtime Pine & Aspen". Cut in late December of 2010. |
| 70 | 3303 - Mixed Low Density Trees | 49.5 | No | Unspecified | Lowland complex comprised of cattails, leatherleaf, mixed shrubs, and scattered deciduous and coniferous tree species. |
| 71 | 50 - Water | 2.5 | No | Unspecified | |
| 72 | 50 - Water | 1.1 | No | Unspecified | |
| 73 | 6230 - Cattail | 4.4 | No | Unspecified | Lowland complex comprised of cattails, leatherleaf, and mixed shrubs. |