



Compartment Review Presentation

Cadillac Forest Management Unit

Compartment 63012

Entry Year 2023

Acreage: 3,225

County Lake

Management Area: Lake County Outwash

Revision Date: 2021-06-03

Stand Examiner: James Park

Legal Description:

T19N, R12W Sec. 7, 8, 9, 16, 17, and 18

T19N, R13W Sec. 11, 12, 13, and 14

Identified Planning Goals:

Vegetation management in the Lake County Outwash management area (MA) 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.

Due to the proximity of this management area to more populated areas of Southern Michigan and the popularity of this area for dispersed recreation and the quantity and availability of wood fiber the forest resources contribute significant social and economic values to the area.

Surveys have located rare, threatened, or species of special concern including eastern massasauga rattlesnake, dusted skipper, common loon, a great blue heron colony, wood turtle, eastern box turtle and the Great Plains spittlebug.

Soil and topography:

Compartment soils range from Grayling to Graycalm sands. The topography ranges from rolling hills to flat plains.

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

The ownership in the compartment is primarily contiguous blocks of State-owned land. There are some blocks of privately owned recreational lands found primarily along the Little Manistee River corridor. In general, the compartment has a mix of timber types and a wide variety of recreational opportunities.

Unique Natural Features:

This compartment contains some moraine ridges, few kettle lakes, and somewhat excessively drained sand. There is potential for Dusted Skipper and Great Plains Spittlebug in grassy openings. Additionally, there is potential for the Eastern Massasauga rattlesnake in several sections of the compartment (especially in lowland to upland transition areas). Lastly, this compartment has been known to contain Wood Turtles in areas near the Little Manistee River.

Archeological, Historical, and Cultural Features:

This compartment contains a former CCC camp listed in the Archeological Site Listing. It is recommended that no activities that disturb the soil take place in the camp's location.

Special Management Designations or Considerations:

Special consideration should be given to stands that influence the compartment's riparian zones (Little Manistee River, Twin Creek, Widewaters Flooding, etc.). Aside from riparian zones, the area around this compartment shows signs of oak decline and/or oak wilt. Oak stands within this compartment should be monitored for mortality, and prescriptions/management activities should be adjusted accordingly.

Watershed and Fisheries Considerations:

The Little Manistee River, the N. Branch of Twin Creek, the South Branch of Twin Creek, Twin Creek, Syers Creek, Little Widewaters Creek, and several unnamed tributaries flow through Compartment 12. All are Designated Trout Streams. The Little Manistee River supports naturally reproducing populations of brook trout, brown trout, coho salmon, chinook salmon, and

steelhead. The Little Manistee River is the sole source of steelhead eggs for Michigan winter run steelhead, which are stocked in many rivers throughout Michigan and several other Great Lakes states. Therefore, it and its tributaries are deserving of the utmost protection. Syers Creek, the East Branch of Twin Creek, the West Branch of Twin Creek and Twin Creek all have naturally reproducing populations of brook trout, brown trout, and rainbow trout (steelhead). Twin Creek is the largest tributary to the Little Manistee and most likely contributes good numbers of wild steelhead smolts to the fishery. BMPs should be followed when working around any of these streams and appropriate buffers should be maintained. Along Twin

Creek, we recommend managing for species other than young aspen, in order to avoid problems with beavers.

Wildlife Habitat Considerations:

Featured wildlife species in this Management Area are diverse reflecting the wide range of habitat types present. Featured Species of specific interest in this compartment with a wildlife flooding and streams are Mallard and Woodduck. Applicable to the rest of the compartment are American Martin, American Woodcock, Beaver, Black Bear, Eastern Massauga rattlesnake, Golden-winged warbler, Pileated woodpecker, Red-headed woodpecker, Ruffed Grouse, Snowshoe Hare, Wild Turkey, and White Tailed deer. Most of these species benefit from young forest and open types while some require some old trees for foraging and nest/den sites. Maintaining the opening types and balancing harvests with a diverse assortment of age classes in the timber types will meet the goals for these species. This compartment is part of an Eastern Massasuga rattlesnake management area which will require consideration when forest treatments are considered as well as other management actions.

Mineral Resource and Development Concerns and/or Restrictions

No known potential exists for commercial metallic mineral production in this part of the state. The nearest active sand/gravel pit is just over two miles to the east, in Section 12, T19N-R12W, on moraine deposits. The compartment sits within glacial outwash sediments, and there appears to be some good sand & gravel potential, but the water table is relatively shallow in places, which could inhibit development. There has been past oil & gas production one mile to the east and west of the compartment, but no active production or leasing is occurring in the area currently. Oil & gas potential within the compartment is considered low at this time.

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:

There are no known survey needs in this compartment.

Recreational Facilities and Opportunities:

The Little Manistee Snowmobile/ORV route and motorcycle trails run throughout this compartment, providing motorized recreation opportunities year round. Both trails are heavily used by ORV's and cycles. In winter, the route is a groomed snowmobile trail and used by snowmobilers. There are two recreation bridges, one in section 8 over East Twin Creek and one in section 11 over the Little Manistee River, they are designed to support only recreational traffic and both require periodic maintenance. Hunting and fishing pressure is heavy in this compartment.

Fire Protection:

The area has a mixture of urban interface throughout, mostly along the Little Manistee River. Access for fire suppression equipment is good along the north and south side of the compartment. There may be some concern with fire suppression along the river bottom.

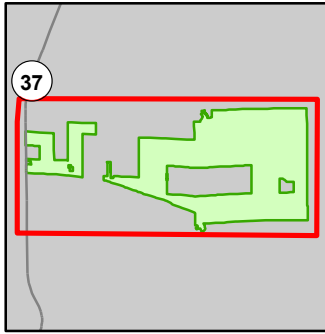
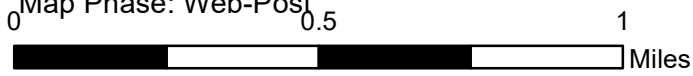
Additional Compartment Information:

Cover Type & Treatments Map

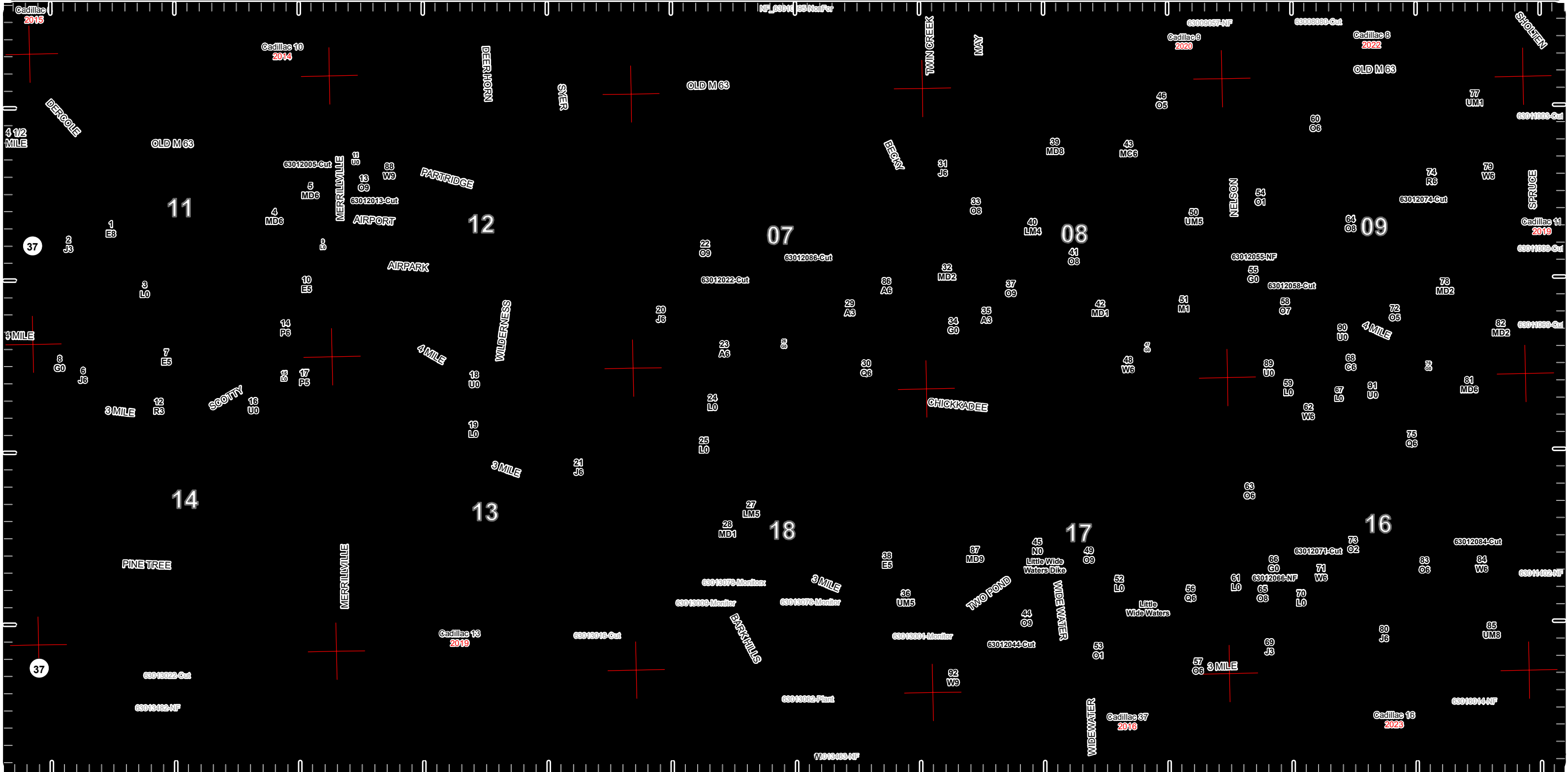
Compartment: 12

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Unit: Cadillac
Mgmt Area: Lake County

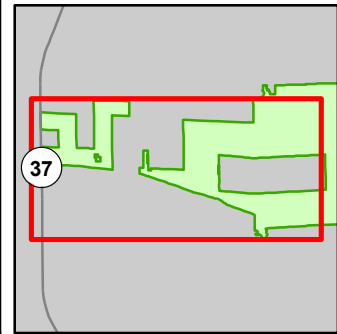
Outwash
YOE: 2023
Acres: 3225 GIS Calculated
Examiner: James Park
Map Revised: 6/28/2021
Map Phase: Web-Post



- Miris Corners
- Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Secondary Forest Road
- Federal / State Highway
- Federal / State / County - Paved Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Paved Road
- Private - Dirt / Gravel Road
- Motorcycle Trails (DNR License)
- MCCCT Trails
- ORV Routes
- Snowmobile Trails
- ORV License & Trail Permit
- Designated ATV Trails
- Designated ORV Route
- Designated Snowmobile Trails
- Michigan Cross Country Cycle Trail (MCCCT)
- Berms
- Gate
- Bridges
- Campground
- Parking Lot
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Powerline
- Compartment Boundary
- Treatments with Site Conditions
- Other Treatment - See Comments
- Clearcut (w/Reserves)
- Harvest, Overstory Removal
- Seed Tree (w/Reserves)
- Thinning (Crown, Low, Systematic)
- Shelter Wood (w/Reserves)
- Opening Maintenance
- Water Level Management
- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
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- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 622 - Lowland Shrub
- 623 - Emergent Wetland

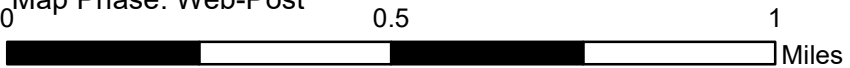


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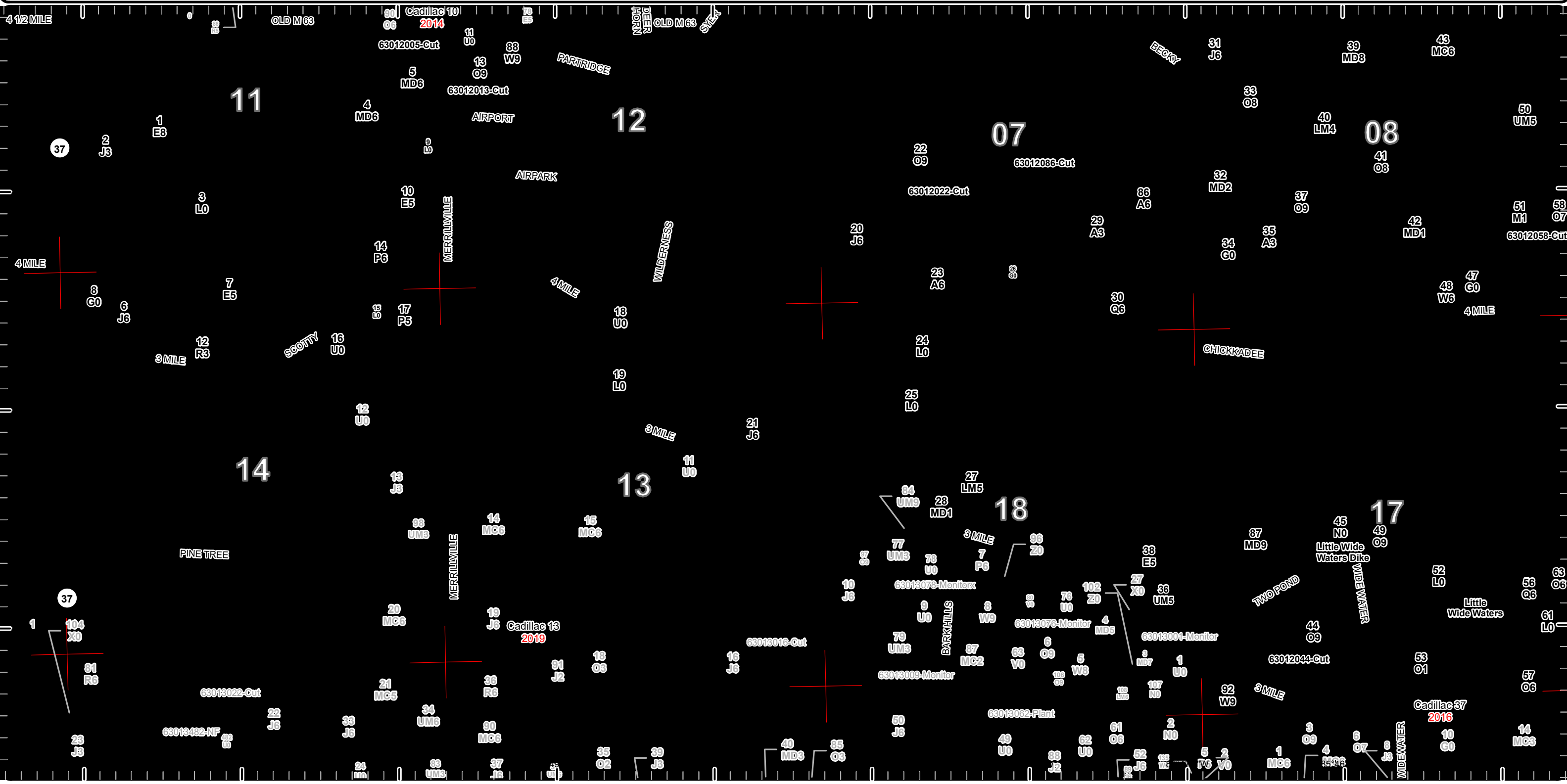


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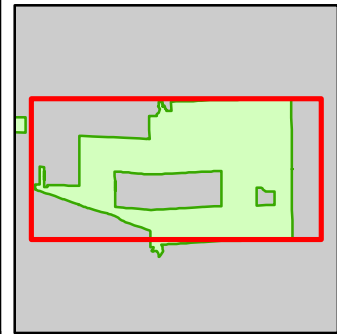
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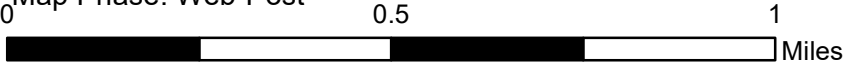
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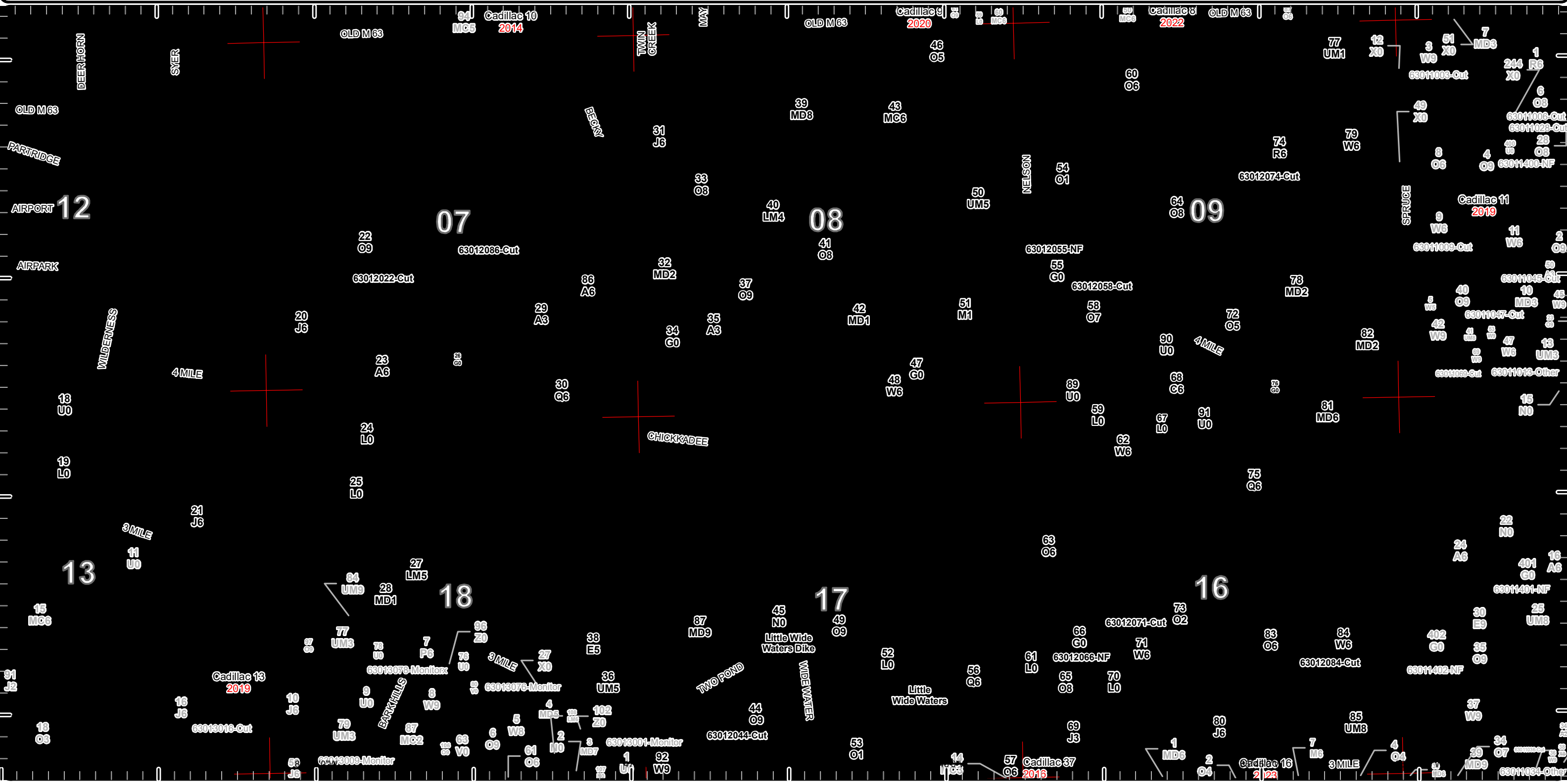
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|---|-------------------------------------|-----------------------------------|--------------------------|
| — Miris Corners | --- Designated ORV Route | ▨ Shelter Wood (w/Reserves) | ■ 622 - Lowland Shrub |
| + Remonumented Section Corners | — Designated Snowmobile Trails | ▨ Opening Maintenance | ■ 623 - Emergent Wetland |
| ● Survey Grade Corners | ⚡ Bridges | ▨ Water Level Management | |
| --- Counties | — Intermittent Stream | ■ 411 - Northern Hardwood | |
| — DNR - Secondary Forest Road | — Lake/Pond | ■ 412 - Oak Types | |
| — Federal / State / County - Paved Road | — Perennial River | ■ 413 - Aspen | |
| - - - County - Gravel Road | — Lakes and Rivers | ■ 419 - Mixed Upland Deciduous | |
| — Private - Paved Road | ⚡ Powerline | ■ 421 - Planted Pines | |
| - - - Private - Dirt / Gravel Road | ▭ Compartment Boundary | ■ 422 - Natural Pines | |
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| 🛵 ORV Routes | ▭ Other Treatment - See Comments | ■ 611 - Lowland Deciduous Forest | |
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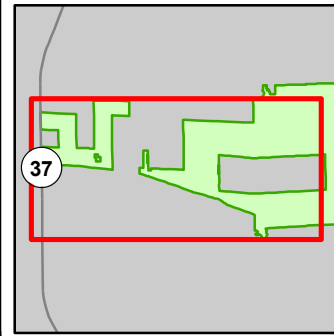
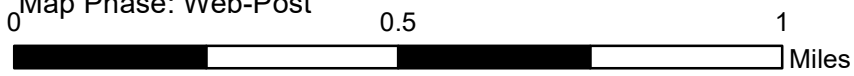


Stand Boundary Map

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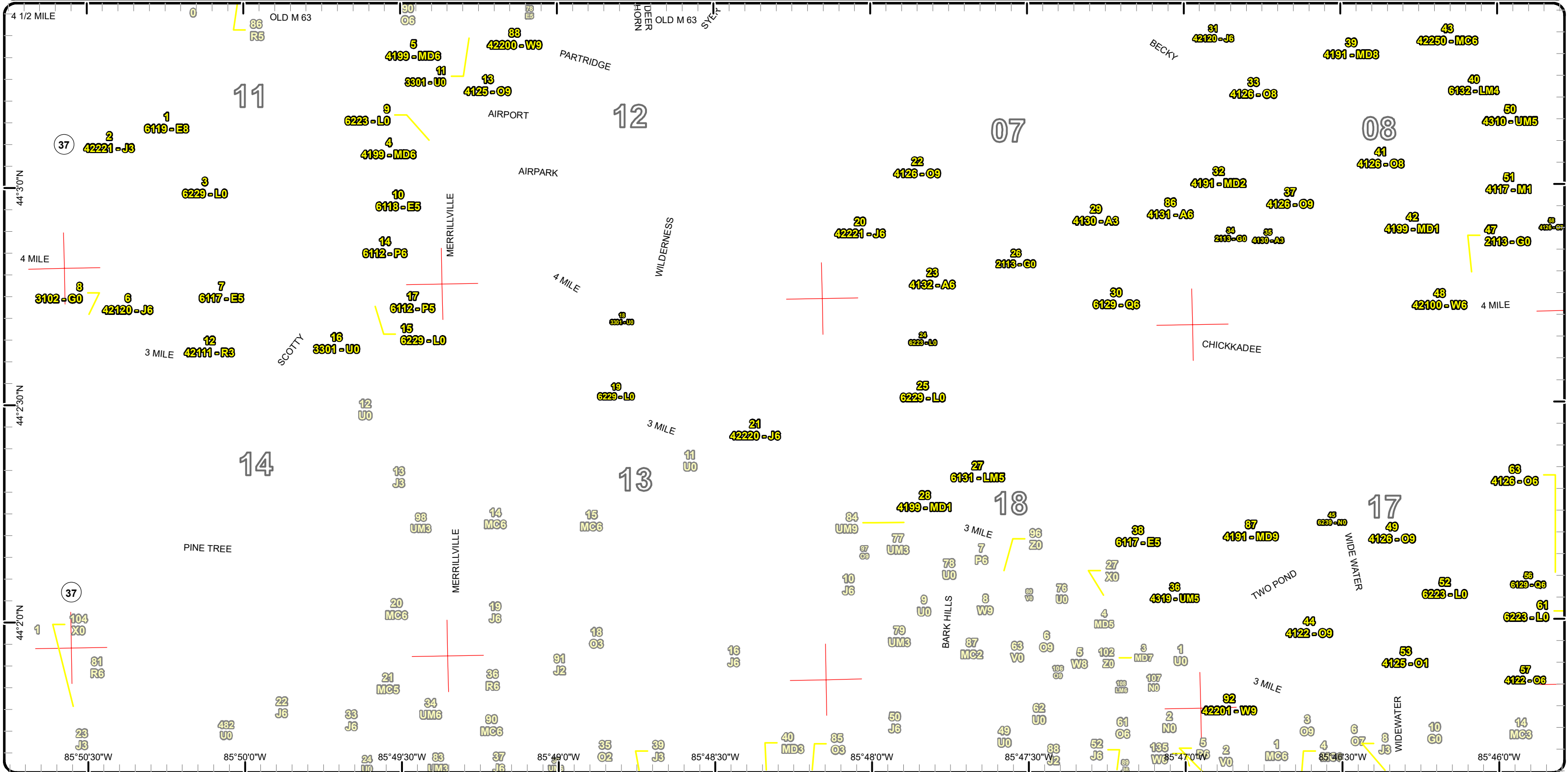
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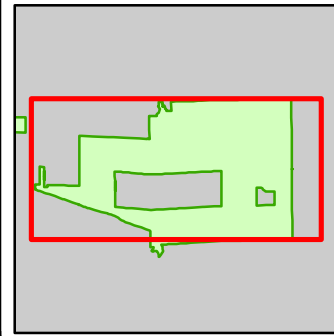
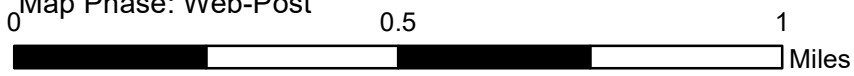


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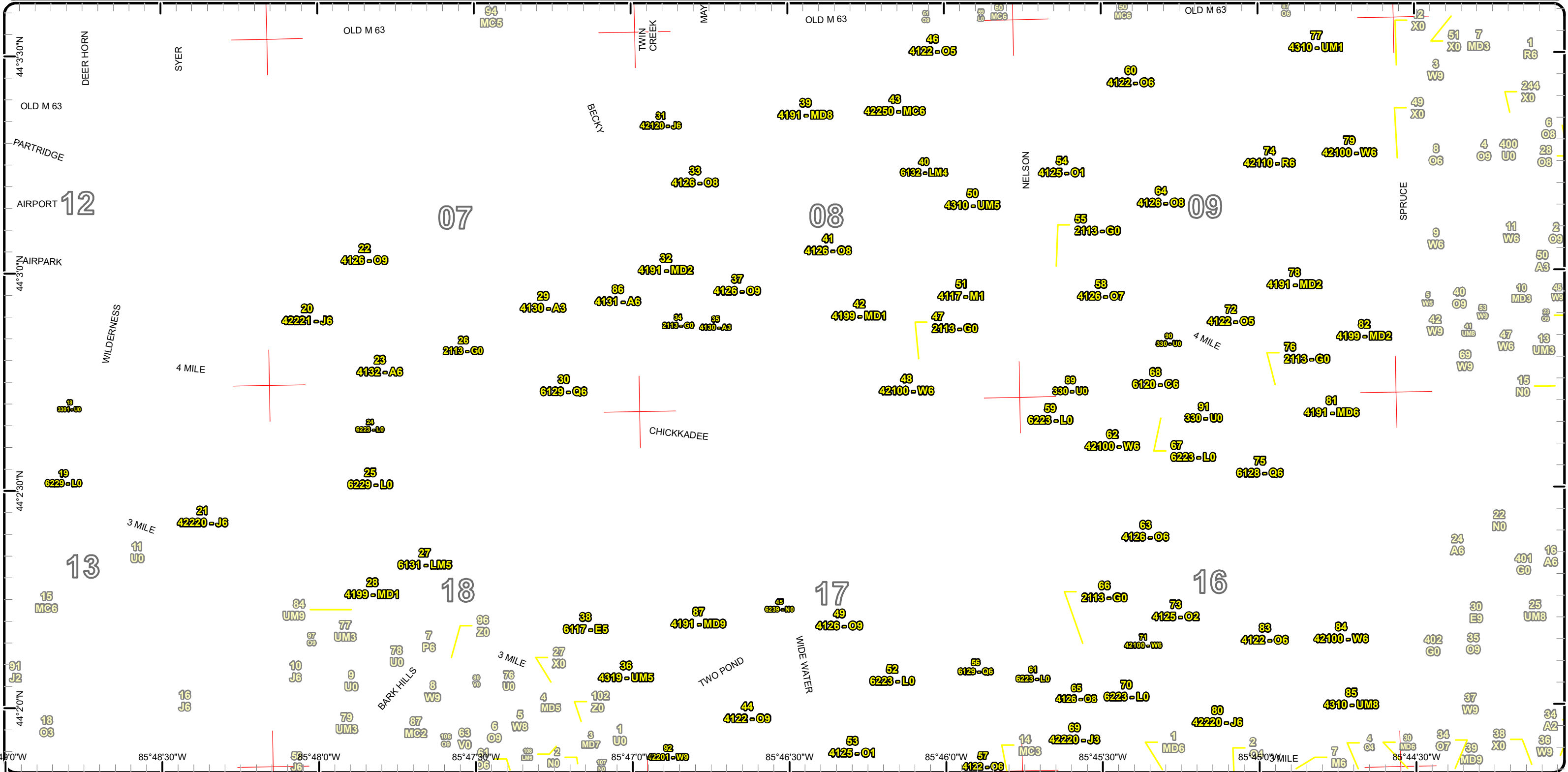
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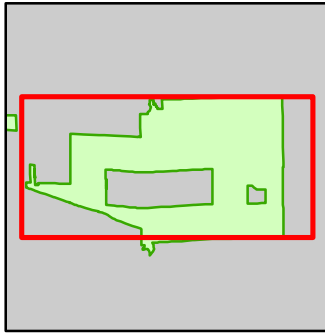
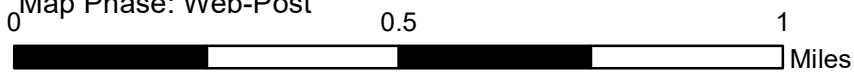


Special Conservation Areas

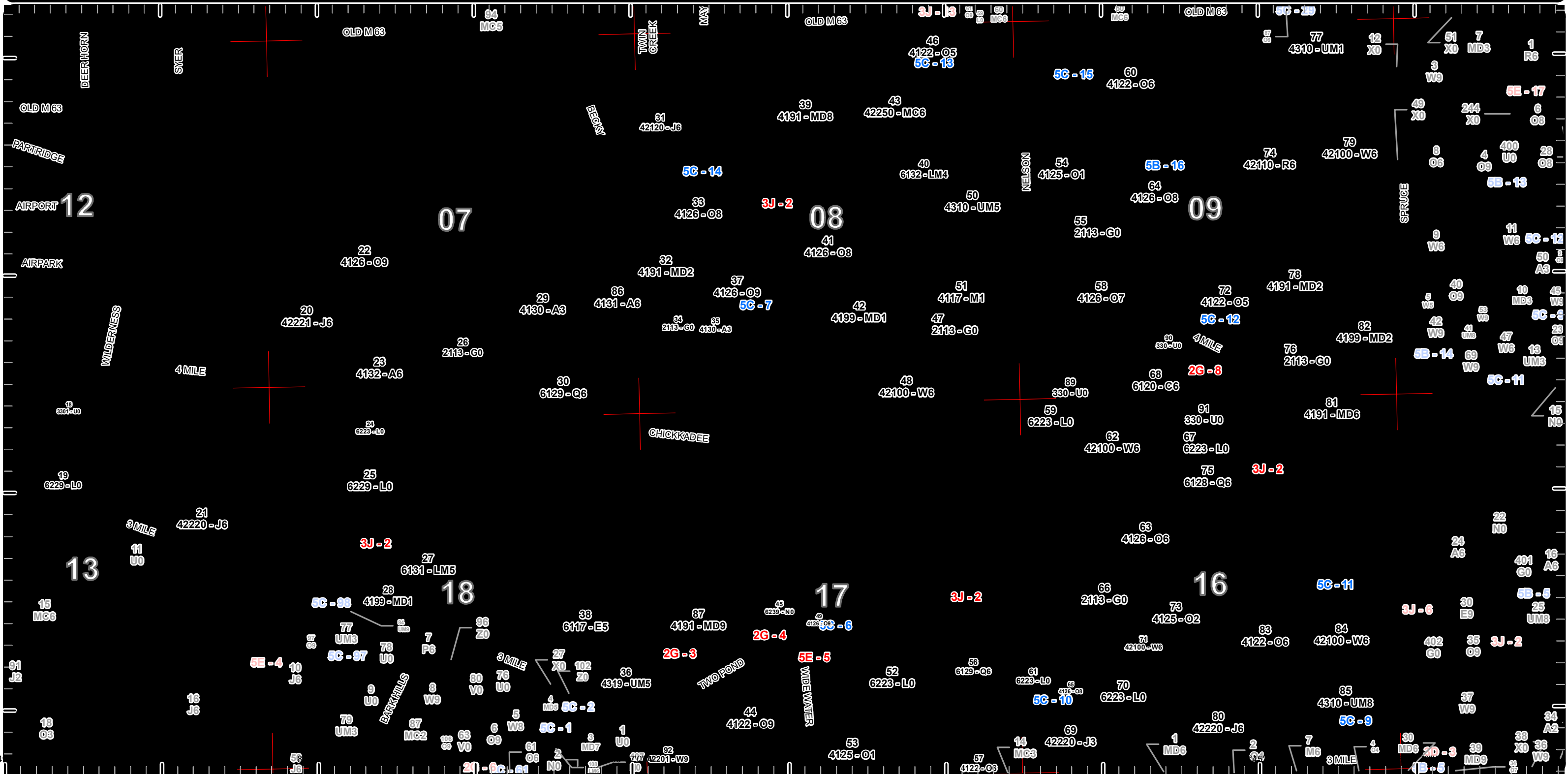
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- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 2G: Too wet (sensitive soils, does not include access issues)
- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention
- Stand Boundaries
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer
- Wildlife Management Areas
- 5B: Maintain for regeneration purposes
- 5C: Delay treatment for age/size class diversity or exceptional site quality



Report 1 – Total Acres by Cover Type and Age Class



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	57	0	7	83	0	77	0	0	0	0	0	0	0	0	0	0	0	224
Cedar	0	0	0	0	0	0	0	48	0	0	0	0	0	0	0	0	0	0	48
Cropland	32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	32
Herbaceous Openland	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Jack Pine	0	0	27	122	75	44	0	0	0	0	0	0	0	0	0	0	0	0	267
Low-Density Trees	70	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	70
Lowland Aspen/Balsam Poplar	0	0	0	0	0	0	51	0	0	0	0	0	0	0	0	0	0	0	51
Lowland Conifers	0	0	0	0	0	0	149	29	19	0	0	0	0	0	0	0	0	0	196
Lowland Deciduous	0	0	0	0	0	64	40	0	44	0	0	0	0	0	0	0	0	0	148
Lowland Mixed Forest	0	0	0	0	0	0	0	24	0	0	95	0	0	0	0	0	0	0	119
Lowland Shrub	262	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	262
Marsh	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Mixed Upland Deciduous	0	0	177	71	0	55	0	67	0	26	0	0	0	0	0	0	0	0	395
Natural Mixed Pines	0	0	0	0	0	0	51	0	0	0	0	0	0	0	0	0	0	0	51
Northern Hardwood	0	0	36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	36
Oak	0	0	68	39	19	0	74	0	79	557	0	0	0	0	0	0	0	0	836
Red Pine	0	0	28	0	0	26	0	0	0	0	0	0	0	0	0	0	0	0	54
Upland Mixed Forest	0	0	58	0	0	36	70	0	0	42	0	0	0	0	0	0	0	0	206
White Pine	0	0	0	0	21	31	10	154	0	10	0	0	0	0	0	0	0	0	226
Total	369	57	394	239	198	256	522	322	142	635	95	0	0	0	0	0	0	0	3226



Report 2 – Treatment Summary

Cadillac Mgt. Unit

Year of Entry: 2023

Acres of Harvest

Compartment 12

Total Compartment Acres: 3,225

Commercial Harvest - 402
 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	77	0	0	0	0	0	0	0	0	77
Mixed Upland Deciduous	0	0	0	26	0	0	0	0	0	26
Oak	0	0	0	83	59	0	90	0	0	233
Red Pine	0	0	0	0	0	26	0	0	0	26
White Pine	0	0	0	0	0	41	0	0	0	41
Total	77	0	0	109	59	67	90	0	0	402

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	402	0	0	0	0	0	0	106	0	508
Next Step	0	0	0	0	0	0	245	0	0	245
Total	402	0	0	0	0	0	245	0	106	754



Stand Name	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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Proposed Treatments:

5	63012005-Cut	25.7	4199 - Other Mixed Upland Deciduous	Poletimber Well	83	51-80	Harvest	Seed Tree with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	No
<p><u>Prescription</u> Cut all black/red hybrid oak, red maple, jack pine, and aspen. No cut cedar, white pine, and cherry. Retention in the southern portion of the stand where the ground is saturated. Scattered pocket retention throughout remainder of stand. Target 0-30 BA. Protect ORV/Snowmobile trail. Use grouse spec.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Any trees currently in the overstory is acceptable as regen in this stand.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p>Proposed Start Date: 10/1 /2022</p>											
13	63012013-Cut	21.2	4125 - Black, N. Pin Oak	Sawtimber Well	80	51-80	Harvest	Seed Tree with Retention	4122 - Oak, Pine	Even-Aged	No
<p><u>Prescription</u> Reduce overstory to 10-30 BA. No cut white pine. Leave 3-10% island retention.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Intermediate)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> White oak, black/red hybrid oak, white pine, jack pine and other upland deciduous species.</p> <p><u>Regen:</u></p> <p><u>Other</u> Use timbersale to obliterate illegal trails within the stand.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p>Proposed Start Date: 10/1 /2022</p>											
22	63012022-Cut	59.1	4126 - White, Black, N. Pin Oak	Sawtimber Well	84	51-80	Harvest	Shelterwood	412 - Oak Types	Two-Aged	No
<p><u>Prescription</u> Mark to remove white and hybrid oak. Target residual basal area will be ~40-60. Protect advanced regeneration currently recruiting into canopy gaps from previous thinning operation.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Intermediate)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> A mix of white and hybrid oaks as well as white pine.</p> <p><u>Regen:</u></p> <p><u>Other</u> Stand 86 is an adjacent aspen stand slated for harvest as well. Consider placing harvest boundary away from stand boundary in order to prevent aspen from recruiting into the oak stand.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p>Proposed Start Date: 10/1 /2022</p>											



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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26	63012026-NF	9.4	2113 - Forage Crops Nonstocked			Unspecified	NonForestMgt	Herbaceous/Crop /Grass Planting	310 - Herbaceous Openland	No
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Prescription Currently an annual foodplot. May move towards perennial cover type.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2022

44	63012044-Cut	62.1	4122 - Oak, Pine	Sawtimber Well	88	51-80	Harvest	Seed Tree with Retention	4122 - Oak, Pine Even-Aged	No
----	--------------	------	------------------	----------------	----	-------	---------	--------------------------	----------------------------	----

Prescription Reduce BA to 10-30. Retention pocket in the northern half of the stand east of wide waters road. Retention in the northern section of the stand where the stream crosses the road and the soils are wet and sensitive. Mark to leave small islands of oak throughout the stand. Do not cut white pine 6 inches or less. Retain all white pine 26 inches or greater.

Next Step Monitoring, Natural Regen (Intermediate)

Treatments:

Acceptable White oak, black/red hybrid oak, white pine, jack pine, and other upland deciduous species.

Regen:

Other Protect ORV/Snowmobile trail that runs east to west through the stand. Limit crossing the trail to minimize damage. 100 foot buffer to protect wide waters.

Site Condition

Proposed Start Date: 10/1 /2022

47	63012047-NF	1.9	2113 - Forage Crops Nonstocked			Unspecified	NonForestMgt	Herbaceous/Crop /Grass Planting	310 - Herbaceous Openland	No
----	-------------	-----	--------------------------------	--	--	-------------	--------------	---------------------------------	---------------------------	----

Prescription Currently an annual foodplot. May move towards perennial cover type.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2022



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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55	63012055-NF	4.3	2113 - Forage Crops Nonstocked			Unspecified	NonForestMgt	Herbaceous/Crop /Grass Planting	310 - Herbaceous Openland	No
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Prescription Currently an annual foodplot. May move towards perennial cover type.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2022

58	63012058-Cut	90.4	4126 - White, Black, N. Pin Oak	Sawtimber Poor	88	1-50	Harvest	Overstory Removal	412 - Oak Types	Even-Aged	No
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Prescription Shelterwood removal. No cut white and red pine. Cut all jack pine. Mark to leave small islands of oak where possible. Protect ORV and

Specs: Snowmobile trails. Protect advanced regeneration.

Next Step

Treatments:

Acceptable Oak types, red maple, red pine, jack pine, white pine

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2022

66	63012066-NF	5.4	2113 - Forage Crops Nonstocked			Unspecified	NonForestMgt	Herbaceous/Crop /Grass Planting	310 - Herbaceous Openland	No
-----------	--------------------	-----	--------------------------------	--	--	-------------	--------------	---------------------------------	---------------------------	----

Prescription Currently an annual foodplot. May move towards perennial cover type.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2022

71	63012071-Cut	10.3	42100 - Planted White Pine	Poletimber Well	59	111-140	Harvest	Systematic Thinning	4210 - Planted White Pine	Even-Aged	No
-----------	---------------------	------	----------------------------	-----------------	----	---------	---------	---------------------	---------------------------	-----------	----

Prescription Systematic row thinning in a cut two leave two pattern. Where rows become indistinguishable, mark to identify desired row structure.

Specs:

Next Step

Treatments:

Acceptable White pine and a mix of upland deciduous species.

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2022



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
74 63012074-Cut	25.5	42110 - Planted Red Pine	Poletimber Well	42	111-140	Harvest	Systematic Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Third row thin to release red pine. Remove any overstory white pine and oak where accessible. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2022</p>										
84 63012084-Cut	30.8	42100 - Planted White Pine	Poletimber Well	46	141-170	Harvest	Systematic Thinning	42100 - Planted White Pine	Even-Aged	No
<p><u>Prescription</u> Take two leave two systematic row thinning. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> White pine, white oak, black/red hybrid oak, and red maple. <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2022</p>										
86 63012086-Cut	77.2	4131 - Aspen, Oak	Poletimber Well	54	81-110	Harvest	Clearcut with Retention	4139 - Aspen, Mixed Deciduous	Even-Aged	No
<p><u>Prescription</u> Final harvest. Mark to leave occasional white oak. No cut cedar and white pine. Use grouse spec. Retention in the form of residual trees and island pockets. Target 3-10% retention. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Aspen, white and black oak, and other upland deciduous species. <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2022</p>										
52 Little Wide Waters	84.6	6223 - Inundated Shrub Swamp	Nonstocked		Unspecified	NonForestMgt	Water Level Management	6239 - Mixed Emergent Wetland		No
<p><u>Prescription</u> Manipulate water levels as needed for habitat and recreational values. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2012</p>										



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
44 Little Wide Waters Dike	0.3	4122 - Oak, Pine	Sawtimber Well	88	51-80	NonForestMgt	Other - Specify	310 - Herbaceous Openland		No
<p><u>Prescription</u> Maintain dike in keeping with regulations. Trees and brush may be cut, the dike may be mowed, and herbicide may be used as needed.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u> Too Wet</p> <p><u>Proposed Start Date:</u> 10/1 /2012</p>										

Total Treatment 508.2
Acreage Proposed:

Report 4 – Site Conditions

Cadillac Mgt. Unit
James Park : Examiner

Compartment: 12
Year of Entry: 2023

Availability for Management

Total Acres	Acres Available	Acres Avail		Acres Not Available		Dominant Site Conditions				
		With Condition				5B	5C	2G	3J	5E
224	224	0		0	Aspen					
48	0	0		48	Cedar			48		
31	31	0		0	Cropland					
1	1	0		0	Herbaceous Openland					
268	268	0		0	Jack Pine					
70	70	0		0	Low-Density Trees					
51	1	0		50	Lowland Aspen/Balsam Poplar			50		
196	1	0		196	Lowland Conifers				196	
148	1	0		147	Lowland Deciduous			147		
119	0	0		119	Lowland Mixed Forest				119	
262	262	0		0	Lowland Shrub			0	0	
4	4	0		0	Marsh					
395	395	0		0	Mixed Upland Deciduous			0	0	
51	51	0		0	Natural Mixed Pines					
36	36	0		0	Northern Hardwood					
835	465	362		8	Oak	72	291	4		4
54	54	0		0	Red Pine					
205	163	41		0	Upland Mixed Forest		41			
226	226	0		0	White Pine					
3,226	2,253	404		568	Total Forested Acres	72	332	250	315	4
	70%	13%		18%	Relative Percent					

**Due to limitations in the current Site Conditions Analysis tool, all nonforested acres are considered available. Future development will enable analysis of nonforested types.*

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	158	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Cadillac Mgt. Unit
James Park : Examiner

Compartment: 12
Year of Entry: 2023

2	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	315	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
3	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	39	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments: There is a stream connecting to the adjacent Little Wide Waters. Soils here are wet and mucky. Protect from any harvesting operations in the future.							
5	Unavailable	5E: Long-Term Retention	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	18	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Cadillac Mgt. Unit
James Park : Examiner

Compartment: 12
Year of Entry: 2023

8	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	48	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
9	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	42	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
10	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	15	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	35	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
12	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	33	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Cadillac Mgt. Unit
James Park : Examiner

Compartment: 12
Year of Entry: 2023

13	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	14	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
14	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	50	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
15	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	113	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
16	Available	5B: Maintain for regeneration purposes	72	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
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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	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.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
1	6119 - Mixed Lowland Deciduous Forest	Sawtimber Medium	43.8	71	51-80	N/A	Upland / Lowland mix. Scattered tag alder openings. The little Manistee river flows through this stand. This is a designated trout stream and the sole source of steelhead eggs for Michigan winter run steelhead. Previous inventory indicated that the ground was too wet to operate here. The river is appx. 50 feet or less in width indicating the need for a 300-foot buffer. This buffer would cut off much of the stand from operation to prevent the spread of aspen. Leaving site-condition in place and recommend holding.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Red Maple		30	Pole/Log	10		Red Maple		
Quaking Aspen		20	Pole	9		Jack Pine		
Black/Red (Hybrid) Oak		40	Log	15	71	Density		
Jack Pine		10	Pole	8		Avg. Height		
						Size		
2	42221 - Natural Jack Pine, Mixed Deciduous	Sapling Well	17.4	21	Immature	N/A	Jack Pine and Aspen mix. 20-25 feet in height with lots of deer sign throughout the stand.	
Canopy Species		% Cover	Size Class	DBH	Age			
Red Maple		25	Sapling	4				
Quaking Aspen		10	Sapling	3	21			
Jack Pine		65	Sapling	3	21			
3	6229 - Mixed lowland shrub	Nonstocked	42.8		Unspecified	No		
						Sub-Canopy Species		
						Density		
						Avg. Height		
						Size		
						Tag Alder		
						Full		
						Tall Shrub		
4	4199 - Other Mixed Upland Deciduous	Poletimber Well	31.5	47	1-50	N/A	Several openings in stand. Low volume of merchantable timber.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Red Maple		20	Pole	9		Red Maple		
Quaking Aspen		30	Pole/Sapling	7		Density		
Black/Red (Hybrid) Oak		35	Log/Pole	11	47	Avg. Height		
White Pine		5	Log/Pole	11		Size		
White Oak		4	Log/Pole	10		Red Maple		
Northern White Cedar		1	Log/Pole	10		Medium		
Jack Pine		5	Pole	8		10 - 20 feet		
						Sapling		
5	4199 - Other Mixed Upland Deciduous	Poletimber Well	25.7	83	51-80	N/A	Mixed oak stand. Scattered overstory white pine. Pockets of young aspen. Wet to the south with cedar scattered around the edges of the wet areas. If decision is made to harvest, recommend combining with adjacent stand 13. This will allow us to utilize the timbersale operations to destroy the illegal trails in stand 13.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Bigtooth Aspen		15	Pole	8		Witch Hazel		
Black/Red (Hybrid) Oak		45	Log	15	83	Density		
Jack Pine		10	Pole/Sapling	7		Avg. Height		
Black Cherry		8	Pole/Sapling	7		Size		
White Oak		5	Pole	8		Witch Hazel		
White Pine		5	Log/Pole	10		Low		
Northern White Cedar		2	Log/Pole	10		5 - 10 feet		
Red Maple		10	Pole/Sapling	7		Tall Shrub		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																						
6	42120 - Planted Jack Pine	Poletimber Well	32.9	42	81-110	N/A	Pockets of snags to the north and west in this stand. There is potential for harvest here if we were pressed for wood. Otherwise recommend holding 10 years.																																						
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7	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Medium	40.2	58	81-110	N/A	Mix of high and low ground. Some tag alder openings. Oak and jack pine scattered around edges, with a mix of red maple and white pine interior. Scattered white oak near the ORV trail away from the wet interior. Stand has multiple tree stands which have been marked in collector for removal. Most of the timber in this stand is subpar and overall not worthy of a harvest at this time. Keep site condition in place.																																						
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8	3102 - Grass	Nonstocked	1.1		Unspecified	No	Grass opening along ORV trail. Not currently managed. Southwest corner has a large deposit of dirt and gravel. Wildlife informed me this was dumped by the county during road maintenance.																																						
9	6223 - Inundated Shrub Swamp	Nonstocked	3.6		Unspecified	No																																							
10	6118 - Lowland Deciduous with Cedar	Poletimber Medium	24.9	45	81-110	N/A	Previous inventory called for potential harvest this rotation. However, the aspen in this stand is low quality with small diameters. There are numerous dead aspen snags surrounding a cattail/cedar swamp that sits in the middle of this stand and covers approximately 30% of the ground here. Northern white cedar surrounds the swamp with some heavy pockets of pure cedar. Possible eagle's nest as two eagles were seen circling and calling. Heavy deer sign. Saturated ground throughout this stand.																																						
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11	3301 - Low Density Deciduous Trees	Nonstocked	1.8		Unspecified	No	A few scattered scrubby oaks in an otherwise empty shrubby opening.																																						
12	42111 - Planted Red Pine, Mixed Deciduous	Sapling Well	28.3	10	Immature	N/A	Stand planted red pine per FTP# C63-792. Stand treated timber sale #63-046-05-01.																																						
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																			
13	4125 - Black, N. Pin Oak	Sawtimber Well	21.2	80	51-80	N/A	Low quality oak with a mix of evergreen and deciduous species. Potential trespass issues with landowners. Several illegal trails, hunting stands, and a garbage pile located (marked using collector).																																																			
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14	6112 - Lowland Aspen	Poletimber Well	21.5	52	51-80	N/A	Lowland aspen/tag mix. Very wet in some spots and moderately wet in others. Overall recommend keeping site condition in place. Revisit in 10 years and determine if a winter harvest could be applied to extract the merchantable timber.																																																			
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16	3301 - Low Density Deciduous Trees	Nonstocked	41.7		Unspecified	4211 - Planted Red Pine	Stand planted to red pine per FTP# C63-792. Stand treated timber sale #63-046-05-01.																																																			
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17	6112 - Lowland Aspen	Poletimber Medium	29.3	51	1-50	N/A	Lowland aspen/tag mix. Stream runs through stand. Keep site condition in place.																																																			
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18	3301 - Low Density Deciduous Trees	Nonstocked	5.0		Unspecified	No	Small aspen stand. Several large openings. Wet in areas.																																																			
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19	6229 - Mixed lowland shrub	Nonstocked	9.1		Unspecified	No	Little manistee river corridor. Mostly lowland shrubs and wetlands. Some pole size aspen, red maple, and a few scattered white pine. Nothing merchantable and most of the stand is within 300 feet of the river.																																																			
20	42221 - Natural Jack Pine, Mixed Deciduous	Poletimber Well	29.2	29	51-80	N/A	Previous inventory indicated a previous seed tree treatment approximately 29 years ago. Openings have filled in with young jack pine and black cherry. The canopy consists of large white and hybrid oak, older larger diameter jack pine and scattered white pine. There is a drainage canal to the north of the stand. To the north of that canal there is a vein of very old large diameter red pine. Possibly the remnants of an old red pine plantation as they are in rows. This stand is highly variable and will require some thought during next year of entry.																																																			
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21	42220 - Natural Jack Pine	Poletimber Well	75.8	27	Immature	N/A	Stand was treated in 1994 as part of Jack Pine Wedge sale #027-93-01. The sale removed most of the overstory jack pine and left oak 10" or larger. The jack pine that was left behind is minimal. Scattered overstory oak and white pine.																																																						
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22	4126 - White, Black, N. Pin Oak	Sawtimber Well	59.1	84	51-80	N/A	Approximately 75% canopy closure. Stand was thinned two YOEs ago. Stand is a mix of larger diameter oak with smaller diameter oak filling in the gaps. Understory consists of mostly white and hybrid oak with some white pine along the southern edge. Consider removing overstory to allow for oak regeneration. Stand last treated in 1993 as part of Pika Removal sale # 63-011-93-01.																																																						
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23	4132 - Aspen, Jack Pine	Poletimber Well	83.4	32	51-80	N/A	Small diameter aspen mixed with patches of more mature jack and white pine. The pine mostly surrounds the emergent wetlands and stream running through this stand. The wetlands are dominated by sedges (hummocks) and leatherleaf. Any future harvest should take care to protect these vital habitats as they are heavily utilized by wildlife.																																																						
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24	6223 - Inundated Shrub Swamp	Nonstocked	3.5		Unspecified	No																																																							
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26	2113 - Forage Crops	Nonstocked	9.4		Unspecified	Managed Opening																																																							
27	6131 - Hemlock, White Pine, Maple, Birch	Poletimber Medium	24.4	64	51-80	N/A	Lowland with some tag in pockets. Some areas in stand are very open. The ground is saturated here with hummocky areas dotted with cedar. The overstory white pine is large in diameter and height. Sensitive soils and quality wildlife habitat.																																																						
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28	4199 - Other Mixed Upland Deciduous	Sapling Poor	48.1	16	Immature	N/A	16 year old regen. Stand was previously treated in 2005 as part of "Squidward Oak" sale # 63-009-03-01. Young jack pine, red maple, hybrid oak, and black cherry coming in nicely with occasional white oak.																																								
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Jack Pine	17	Sapling	3																																												
29	4130 - Aspen	Sapling Well	56.8	5	Immature	N/A	Stand treated timber sale #63-008-13-01, "Right Turn Clyde". Retention left in the form of individual oak trees and within stand 86. Stand 86 was previously part of stand 29. Harvest completed in 2016.																																								
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30	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	28.5	61	81-110	N/A	Mixed lowland coniferous stand.																																								
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31	42120 - Planted Jack Pine	Poletimber Well	11.2	47	51-80	N/A	Some open areas in stand. Consider resetting the stand this entry or next. Some jack pine falling into the stand. Any harvest will require a replant as the floor is carpeted with a layer of grass and duff. Consider planting a mix of red/jack pine as the red pine seem to be doing well on this site.																																								
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Jack Pine	80	Pole/Log	9	47																																											
32	4191 - Mixed Upland Deciduous with Conifer	Sapling Medium	36.6	12	Immature	N/A	Stand final harvested as part of Twelve Oaks sale # 63-050-05-01 finished in 2009. Regen filling in nicely. A mix of white and hybrid oaks, black cherry, red maple, aspen, white pine, and jack pine coming in.																																								
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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33	4126 - White, Black, N. Pin Oak	Sawtimber Medium	49.8	89	51-80	N/A	Previous inventory indicated a previous shelterwood treatment on this stand. Regeneration is present throughout with some areas doing better than others. Heavy deer browse is restricting recruitment in many areas of the stand. Hold to next entry.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
White Oak		25	Log	12		White Oak		Low	10 - 20 feet	Sapling	
Black/Red (Hybrid) Oak		70	Log	16	89	White Pine		Low	10 - 20 feet	Sapling	
White Pine		5	Pole	8		Black Cherry		Low	5 - 10 feet	Sapling	
						Black/Red (Hybrid) Oak		Low	10 - 20 feet	Sapling	

34	2113 - Forage Crops	Nonstocked	9.3		Unspecified	Managed Opening	
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35	4130 - Aspen	Sapling Well	7.0	24	Unspecified	N/A	
Canopy Species		% Cover	Size Class	DBH	Age		
Red Maple		15	Sapling	4			
Bigtooth Aspen		75	Sapling	4	24		
Black Cherry		5	Sapling	3			
Black/Red (Hybrid) Oak		5	Sapling	3			

36	4319 - Mixed Upland Forest	Poletimber Medium	35.5	48	51-80	N/A	Stand is a mix of larger white pine and hybrid oak with small pockets of aspen and cedar. The stand becomes wet quickly moving north from the atv trail. There are a few small aspen clones of low quality and they are being naturally replaced by red maple and some oak. There are a few wet hummocky openings in the stand bordered by cedar and filled with some tag alder. Most of the jack pine in the stand is in the eastern end.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Quaking Aspen		15	Pole	8	48	Jack Pine		Low	10 - 20 feet	Sapling	
Black/Red (Hybrid) Oak		20	Log/Pole/Sap	12		Black Cherry		Low	10 - 20 feet	Sapling	
White Pine		30	Log/Pole/Sap	11	48	Red Maple		Low	10 - 20 feet	Sapling	
Jack Pine		10	Pole	8		Black/Red (Hybrid) Oak		Low	5 - 10 feet	Sapling	
Black Cherry		5	Pole/Sapling	5							
Red Maple		10	Pole/Sapling	6							
Northern White Cedar		10	Pole	9							

37	4126 - White, Black, N. Pin Oak	Sawtimber Well	18.4	86	51-80	N/A	Previous inventory indicated this stand was previously thinned. Scattered crown openings resulted in a mix of fair regen coming in. Recommend holding until next entry.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
White Oak		30	Log	13		White Pine		Low	10 - 20 feet	Pole	
Black/Red (Hybrid) Oak		70	Log	15	86	Witch Hazel		Low	5 - 10 feet	Tall Shrub	
						Black Cherry		Low	5 - 10 feet	Sapling	
						Black/Red (Hybrid) Oak		Low	5 - 10 feet	Sapling	
						White Oak		Low	5 - 10 feet	Sapling	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																														
38	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Medium	39.1	48	51-80	N/A	The western half of this stand is almost completely wet. As the stand moves to the east it moves upland with the oak and jack pine being more prevalent here. The timber here is low quality with heavy signs of wildlife throughout.																																														
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39	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Medium	67.1	69	81-110	N/A	Multiple canopy openings throughout stand.																																														
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40	6132 - Mixed Lowland Forest with Cedar	Poletimber Poor	94.8	92	1-50	N/A	Twin creek river corridor. Mix of deciduous and conifer species. Some areas heavy to tag alder.																																														
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41	4126 - White, Black, N. Pin Oak	Sawtimber Medium	32.2	75	51-80	N/A	Poorer quality oak site. Previously thinned. Decent amount of oak seedlings in understory. Some larger oaks in the overstory. Stand moves down towards the river along the western edge. Any future treatments should focus retention along this edge.																																														
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42	4199 - Other Mixed Upland Deciduous	Sapling Poor	58.0	19	Immature	N/A	19 year old regeneration. Stand is regenerating well. Natural thinning beginning to occur. Fewer black cherry saplings this entry compared to last. Aspen sprouted up in some of the gaps.																																														
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43	42250 - Pine, Oak	Poletimber Well	51.2	56	51-80	N/A	Mixed pine and oak stand. Some areas of the stand are dense with white and red pine while other areas are more wide open with white pine and oak. Some pockets of good oak regen surrounding open grown white pine in center of stand.																																									
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44	4122 - Oak, Pine	Sawtimber Well	70.5	88	51-80	N/A	Stand is an oak pine mix mostly to oak. Some open areas. Some trees beginning to fall into the stand. Stand last treated as part of Nelson Corner Jack sale # 63-009-93-01. Most of the jack pine was removed from the stand in this treatment (cut in 1993).																																									
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45	6239 - Mixed Emergent Wetland	Nonstocked	3.6		Unspecified	No																																										
46	4122 - Oak, Pine	Poletimber Medium	13.5	78	1-50	N/A	Previous shelterwood harvest. Stand gets low towards east edge as it moves down to Twin Creek. Thick regen consisting of white oak, hybrid oak, and white pine.																																									
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47	2113 - Forage Crops	Nonstocked	1.9		Unspecified	Managed Opening																																										
48	42100 - Planted White Pine	Poletimber Well	41.7	61	81-110	N/A	Stand previously thinned.																																									
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49	4126 - White, Black, N. Pin Oak	Sawtimber Well	13.3	81	51-80	N/A	Not ready for treatment.																																									
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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50	4310 - Pine, Oak Mix	Poletimber Medium	69.9	55	1-50	N/A	Stand treated in 1994-1995 as part of Puzzle Piece Removal sale # 63-017-93-01. Specs of this treatment called for not cutting any tree with a DBH less than 6". Eight mature oak sawlog trees per acre at 12" DBH were retained where possible and two 8" oaks if not possible. Jack pine and mixed oak were the only species removed during this treatment. Regen in the stand is fair to good. Some large canopy gaps present. Regen could use more time to establish prior to overstory removal. Most of the regen consists of hybrid oak, white oak, white pine and some scattered jack pine. A few scattered black cherry in the stand.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Oak	20	Log	12		Black/Red (Hybrid) Oak	Low	10 - 20 feet	Sapling
Black/Red (Hybrid) Oak	30	Log	14		White Pine	Low	10 - 20 feet	Sapling
White Pine	30	Pole	8	55	White Oak	Low	5 - 10 feet	Sapling
Jack Pine	20	Pole	8		Jack Pine	Low	5 - 10 feet	Sapling

51	4117 - Mixed N. Hardwood - Pine	Sapling Poor	35.6	16	Immature	N/A	16 year old regen. Stand was treated as part of timber sale "Cycle Oak" sale # 030-03-01. Mix of young black cherry, red maple and hybrid oak. Some jack and white pine were left behind. Some young jack and white pine in the understory.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	30	Sapling	3	
Black/Red (Hybrid) Oak	10	Sapling	3	
White Pine	15	Pole	8	
Jack Pine	5	Pole/Sapling	7	
Black Cherry	40	Sapling	3	16

52	6223 - Inundated Shrub Swamp	Nonstocked	84.6		Unspecified	No	
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53	4125 - Black, N. Pin Oak	Sapling Poor	28.9	16	Immature	N/A	16 year old regen. Stand treated as part of "High Center" sale # 008-04-01. Young oak stand dominated by hybrid oak with black cherry and white oak mixed in. Small amount of aspen.
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Canopy Species	% Cover	Size Class	DBH	Age
Black/Red (Hybrid) Oak	75	Sapling	3	16
Black Cherry	20	Sapling	3	
White Oak	5	Sapling	3	

54	4125 - Black, N. Pin Oak	Sapling Poor	38.7	16	Immature	N/A	16 year old regen. Stand previously treated as part of "Holey Safe" timber sale. Sale # 008-03-01. Mix of young hybrid oak, jack pine, and black cherry. Some overstory white pine scattered throughout the stand as well.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black/Red (Hybrid) Oak	60	Sapling	3	16	White Pine	Low	5 - 10 feet	Sapling
White Pine	10	Pole/Log	9					
Jack Pine	10	Sapling	3					
Black Cherry	20	Sapling	3					

55	2113 - Forage Crops	Nonstocked	4.3		Unspecified	Managed Opening	
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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56 6129 - Mixed Coniferous Lowland Forest Poletimber Well 18.8 79 111-140 N/A Back side of wide waters flooding.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	5	Pole	8		White Spruce	Low	5 - 10 feet	Sapling
White Spruce	20	Pole	9		Tamarack	Low	5 - 10 feet	Sapling
Northern White Cedar	25	Log/Pole	10					
Tamarack	35	Log	11	79				
White Pine	10	Log	12					
Hemlock	5	Pole	7					

57 4122 - Oak, Pine Poletimber Well 19.2 39 81-110 N/A Small diameter mixed oak and pine.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black/Red (Hybrid) Oak	60	Pole	9	39	White Pine	Low	10 - 20 feet	Sapling
Jack Pine	35	Pole/Sapling	5		Red Maple	Low	< 5 feet	Sapling
White Pine	5	Pole/Sapling	6		Jack Pine	Low	< 5 feet	Sapling

58 4126 - White, Black, N. Pin Oak Sawtimber Poor 90.4 88 1-50 N/A 18 year old shelterwood. Regeneration doing well in some areas and poor in others. Heavy deer browse a common problem for regeneration purposes in this area. Recommend overstory removal.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Oak	30	Log/Pole	13		White Oak	Medium	10 - 20 feet	Sapling
Black/Red (Hybrid) Oak	60	Log	16	88	Black/Red (Hybrid) Oak	Medium	10 - 20 feet	Sapling
White Pine	10	Log/Pole	10		Black Cherry	Medium	10 - 20 feet	Sapling
					White Pine	Low	5 - 10 feet	Sapling

59 6223 - Inundated Shrub Swamp Nonstocked 12.1 Unspecified No

60 4122 - Oak, Pine Poletimber Well 113.4 85 51-80 N/A Shelterwood harvest approximately 25 years ago. Understory has filled in well in some areas. Most of the oak stands in this area were all treated between 20-25 years ago and some are ready to have the overstory removed. Recommend holding until next entry.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Oak	25	Log/Pole	10		White Oak	Low	5 - 10 feet	Sapling
Black/Red (Hybrid) Oak	40	Log	13	85	Black/Red (Hybrid) Oak	Low	10 - 20 feet	Sapling
White Pine	10	Pole/Log	9		White Pine	Low	5 - 10 feet	Sapling
Jack Pine	25	Pole/Log	8		Jack Pine	Low	5 - 10 feet	Sapling

61 6223 - Inundated Shrub Swamp Nonstocked 9.6 Unspecified No

Sub-Canopy Species	Density	Avg. Height	Size
Leatherleaf	Full		Tall Shrub

62 42100 - Planted White Pine Poletimber Well 20.8 38 111-140 N/A Pole sized planted white pine. A thinning next entry is recommended.

Canopy Species	% Cover	Size Class	DBH	Age
Black/Red (Hybrid) Oak	5	Pole	6	
White Pine	90	Pole	7	38
Black Cherry	5	Pole	6	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																	
63	4126 - White, Black, N. Pin Oak	Poletimber Well	73.5	54	81-110	N/A	Relatively young oak stand with some areas of higher quality white oak. Recommend holding until next entry and then applying a thinning treatment.																																																	
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64	4126 - White, Black, N. Pin Oak	Sawtimber Medium	71.7	88	1-50	N/A	Stand was thinned in 1994-1995 as part of Center Section Jack Pine sale number 63-008-93-01. The stand has filled in nicely with oak and cherry saplings. Deer browse is an issue, but enough regen has recruited to maintain stocking. Recommend holding.																																																	
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65	4126 - White, Black, N. Pin Oak	Sawtimber Medium	14.5	82	1-50	N/A	Previous shelterwood harvest. Regeneration doing well in some areas. Recommend holding to allow the red maple to become merchantable by next entry then removing the shelterwood to free up the advance regeneration.																																																	
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67	6223 - Inundated Shrub Swamp	Nonstocked	2.4		Unspecified	No																																																		
68	6120 - Lowland Cedar	Poletimber Well	48.2	60	111-140	N/A	Lowland cedar swamp. Wet throughout with openings filled with tag alder. A few scattered red pine and paper birch.																																																	
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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69 42220 - Natural Jack Pine Sapling Well 26.5 19 Immature N/A 19 year old seed tree harvest regenerating to jack pine.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Oak	15	Sapling	3		Black/Red (Hybrid) Oak	Low	10 - 20 feet	Sapling
White Pine	10	Log	12					
Jack Pine	65	Sapling	4	19				
Black Cherry	5	Sapling	3					
Black/Red (Hybrid) Oak	5	Log/Pole	12					

70 6223 - Inundated Shrub Swamp Nonstocked 13.4 Unspecified No

Sub-Canopy Species	Density	Avg. Height	Size
Leatherleaf	High		Tall Shrub

71 42100 - Planted White Pine Poletimber Well 10.3 59 111-140 N/A Small white pine plantation with some scattered oak and maple mostly on the outskirts of the stand. The pine is highly variable with many trees greater than 10 inches and still many others in the 6 to 8 inch classes.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	5	Pole	6		White Pine	Low	5 - 10 feet	Sapling
Black/Red (Hybrid) Oak	5	Pole	6		Black Cherry	Low	5 - 10 feet	Sapling
White Pine	90	Log/Pole	10	59				

72 4122 - Oak, Pine Poletimber Medium 32.9 78 51-80 N/A Previous inventory indicates stand was previously thinned. Could not locate previous sale folder. Good oak regen in gaps with younger white pine moving into the canopy as well. A small amount of pole sized red pine to the south. Hold until next entry.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Oak	10	Log/Pole	11		White Oak	Medium	10 - 20 feet	Sapling
Black/Red (Hybrid) Oak	55	Log	16	78	Black/Red (Hybrid) Oak	Medium	10 - 20 feet	Sapling
White Pine	20	Pole/Log	9		White Pine	Medium	10 - 20 feet	Sapling
Jack Pine	10	Pole	7					
Red Pine	5	Pole	7					

73 4125 - Black, N. Pin Oak Sapling Medium 38.9 26 Immature N/A Previous seedtree. Regen doing well.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	30	Sapling/Pole	4		White Pine	Low	5 - 10 feet	Sapling
Black/Red (Hybrid) Oak	60	Sapling/Pole	4	26				
White Pine	5	Log	13					
Black Cherry	5	Sapling	4					

74 42110 - Planted Red Pine Poletimber Well 25.5 42 111-140 N/A Young red pine plantation. Some open areas. Scattered overstory white pine and a small pocket heavier to oak/cherry. Red pine ready for first thinning.

Canopy Species	% Cover	Size Class	DBH	Age
Black/Red (Hybrid) Oak	5	Pole	6	
Red Pine	85	Pole	7	42
Black Cherry	5	Pole	4	
White Pine	5	Pole/Log	9	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																									
75	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	149.3	59	81-110	N/A	Highly variable stand. Higher areas heavy to aspen/red maple, while low areas are cedar and hemlock. Stand adjoins Little Manistee River to the south. Some steeper areas and some saturated ground throughout the stand. The proximity to the river, steep slopes, and wet ground led to the retention of the site condition in place.																																									
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76	2113 - Forage Crops	Nonstocked	1.2		Unspecified	Managed Opening																																										
77	4310 - Pine, Oak Mix	Sapling Poor	57.8	17	Immature	N/A	Previous seed tree harvest. Stand regenerating well. Stand was treated as part of "High Center" sale # 008-04-01. Sale specs were to leave all oak 16" and larger and under 6" and cut the rest. Young oak and cherry coming in nicely underneath. Jack pine concentrated in western 2/3rds of the stand. Stand was previously divided into 3 separate stands.																																									
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78	4191 - Mixed Upland Deciduous with Conifer	Sapling Medium	36.3	24	Immature	N/A	Stand was harvested 24 years ago. Unable to locate records.																																									
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79	42100 - Planted White Pine	Poletimber Well	85.0	60	81-110	N/A	Pole sized white pine plantation. Stand treated in 2016 with sale #63-044-13-01 "Wiseguy White"																																									
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80	42220 - Natural Jack Pine	Poletimber Well	74.9	34	111-140	N/A	Pole sized jack pine stand. Small pocket of red pine and scattered overstory oak and white pine throughout.																																									
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81	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	34.8	24	51-80	N/A	Previous oak shelterwood. Many areas heavy to aspen regen.																																																								
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82	4199 - Other Mixed Upland Deciduous	Sapling Medium	34.2	16	Immature	N/A	Stand was treated as part of Sea Shell Seat sale # 63-036-03-01.																																																								
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83	4122 - Oak, Pine	Poletimber Well	34.9	84	51-80	N/A	Stand thinned two entries ago. Openings filled in nicely with a mix of oak, pine, and maple. Stand is variable with some areas more dense and others more open. Recommend holding this entry and entering next.																																																								
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84	42100 - Planted White Pine	Poletimber Well	30.8	46	141-170	N/A	Planted white pine. Some open areas in stand. Stand is dense with low light levels reaching the ground. Stand consists of mostly pole-sized white pine with occasional log-sized trees. Recommend thinning the stand this entry or next.																																																								
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85	4310 - Pine, Oak Mix	Sawtimber Medium	41.5	86	51-80	N/A	Mixed pine/oak stand. Previous inventory indicated a previous thinning and this is reflected in some larger gaps with a fair amount of regeneration. Deer browse is an issue in this compartment. Recommend holding until next entry to allow regen to continue to fill in.																																																								
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86	4131 - Aspen, Oak	Poletimber Well	77.2	54	81-110	N/A	This stand was originally part of stand 29 but left out of treatment. Consider final harvesting aspen and hybrid oak, no cut white oak, and mark occasional hybrid to leave.																																																																								
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87	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	23.0	45	51-80	N/A	Stand is a mix of upland and lowland. Cedar in the stand is mostly along the western edges of the stand as it drops away from the road and the soil becomes more saturated.																																																																								
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88	42200 - Natural White Pine	Sawtimber Well	9.7	80	81-110	N/A	Small conifer dominant stand. Some trespass issues in this area need to be addressed.																																																																								
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89	330 - Low-Density Trees	Nonstocked	6.1	0	Unspecified	4136 - Aspen, Mixed Conifer	Stand treated timber sale #63-008-13-01, "Right Turn Clyde".																																																																								
90	330 - Low-Density Trees	Nonstocked	5.9	0	Unspecified	4319 - Mixed Upland Forest	Stand treated timber sale #63-008-13-01, "Right Turn Clyde".																																																																								
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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92 42201 - Natural White Pine, Mixed Deciduous
Sawtimber Well 27.6 65 81-110 N/A

White pine stand with both pockets and individually scattered oak and red maple. Few oversotry red and white pine at 20"+ and a small amount of aspen. Possible treatment next entry.

Canopy Species	% Cover	Size Class	DBH	Age
White Oak	5	Log/Pole	10	
Black/Red (Hybrid) Oak	20	Log/Pole	12	
White Pine	60	Pole/Sap/Log	8	65
Red Maple	5	Pole/Sapling	6	
Jack Pine	3	Sapling/Pole	6	
Quaking Aspen	2	Sapling/Pole	6	
Red Pine	5	Log/Pole/Sap	10	

Sub-Canopy Species	Density	Avg. Height	Size
White Pine	Low	5 - 10 feet	Sapling
Jack Pine	Low	5 - 10 feet	Sapling
Black Cherry	Low	5 - 10 feet	Sapling
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