



Compartment Review Presentation

Cadillac Forest Management Unit

Compartment 63010

Entry Year 2024

Acreage: 3,528

County Lake

Management Area: Lake County Outwash

Stand Examiner: James Park

Legal Description:

T20N, R12W, Sections 30, 31.
T20N, R13W, Sections 25, 26, 35, 36.
T19N, R13W, Sections 1, 2, 11, 12.
T19N, R12W, Section 6.

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.

Soil and topography:

Compartment soils range from excessively and somewhat excessively drained Montcalm and Grayling sand to poorly drained Tawas muck. Compartment topography ranges from rolling hills to flat outwash to bog and swamp.

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

Ownership in the northern portions of the compartment is primarily contiguous blocks of State owned land. To the south, there are several blocks of privately owned recreational lands. The majority of the private development is centered around Little Syers and Stewart lakes, along with development along old M-63. 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 dry prairie plants in grassy openings. Additionally, there is potential for the Eastern Massasauga Rattlesnake and the Wood Turtle along Syers Creek. The compartment has been known to have Bald Eagles nesting north of Little Syers Lake, and the Common Loon in the lake itself.

Archeological, Historical, and Cultural Features:

One concern in the archeological layer.

Special Management Designations or Considerations:

Special consideration should be given to stands that influence the compartment's riparian zones (Little Syers Lake, Syers Creek, etc.). Aside from the riparian zones, areas in and around this compartment show signs of oak decline and/or oak wilt. Oak stands within this compartment should be monitored for mortality, and management activity should be adjusted accordingly.

Watershed and Fisheries Considerations:

Syers Creek and several tributaries of Syers Creek flow through Compartment 10, and Syers Lake is found in Compartment 10. Syers Creek is a tributary of the Little Manistee River. 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 is a Designated Trout Stream, with populations of brook, brown, and rainbow (steelhead) trout. Syers Creek was surveyed by Fisheries Division in 2001 (just upstream from M-37). The unnamed tributary in stands 82 and 69 was also surveyed in 2001 and also found to contain populations of brook, brown, and rainbow (steelhead) trout. Therefore, along Syers Creek and its tributaries, in the future we recommend managing for species other than young aspen, in order to avoid problems with beavers. Also, appropriate buffer strips should be maintained along the creek during future timber operations (M. Tonello, 9/25/12)

Wildlife Habitat Considerations:

Major wildlife management concerns are to regenerate oak as it becomes older. The quality of the oak varies throughout the various soil types in this compartment. In order to maintain the diverse habitats that this compartment provides for

numerous wildlife species, management should center on regeneration and retention of mature, deciduous oak or mixed oak stands. The loss of future mast production, and the loss of associated ground vegetation, such as blueberry, as these oak stands convert to white pine and red maple will have significant impacts on wildlife species that currently use this area. Featured species guidance will be considered for American woodcock, beaver, black bear, mallard, pileated woodpecker, red-headed woodpecker, ruffed grouse, snowshoe hare, turkey, white-tailed deer, and wood duck. (E. Victory 9/2012)

Mineral Resource and Development Concerns and/or Restrictions

Section 6, T19N-R12W and sections 1-2 & 11-12, T19N-R13W and sections 30-31, T20N-R12W and sections 25-26 & 35-36, T20N-R13W, Lake Co.

No known potential exists for commercial metallic mineral production in this part of the state. The nearest active sand/gravel pit is more than four miles away. There appears to be some good sand & gravel potential, but wetlands and existing trails could inhibit development. There has been sparse oil & gas drilling in and around the compartment, all dry holes. The nearest hydrocarbon production, past or present, is about one mile to the southwest. There has been no recent well permitting activity or State mineral leasing activity within the compartment. 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.

Survey Needs:

None known at this time.

Recreational Facilities and Opportunities:

: Motorized recreational facilities within this compartment include: A dual use portion of snowmobile trail #35, which is also known as the Little Manistee ORV route during non-winter use; the Little Manistee motorcycle trail-which is under a Directors Order for motorcycle use only, and therefore should be kept narrow, the Michigan Cross country cycle Trail (MCCCT) parallels the western side of the compartment, and a dual use motorsport/pathway trailhead is located off 7 Mile Rd. Recent improvements to the dual use snowmobile trail and route include construction of 4 bridges, providing safe travel over East Twin Creek, West Twin Creek, Syers Creek, and the Little Manistee River. For the non-motorized user, the Pine Valley Pathway is centrally located within the compartment. This pathway is made up of 3 interconnected loops, totaling 8.2 miles in length. All these developed recreational amenities receive heavy use along with disperse camping near the Little Manistee River. Proposed timber management activities should include trail protection specifications to reduce impacts, as well as serve as an example of how sound timber harvesting methods can co-exist, and often improve recreation and wildlife experiences for future generations. (T.M.N. 8-28-12)

Fire Protection:

The majority of this compartment has access from county roads and forest two tracks.

There are few structures and residences, however, existing structures are located among hazardous fuels and have poor access for fire equipment. Portions of this compartment have great potential for a large scale wildfire incident. Pine fuel types are continuous in these locations with few natural or manmade barriers existing. The ORV route and trail within the compartment would be a concern during a wildfire or a prescribed burn. There are large numbers of recreational users during dry portions of the year which increase the likelihood of a large scale event. (BET 8-1-12)

Additional Compartment Information:

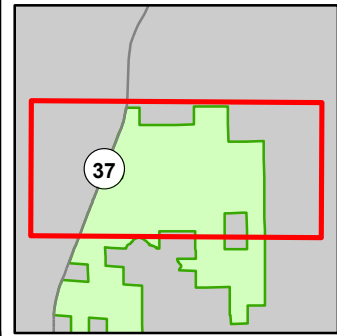
The following reports from the Inventory are attached:

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

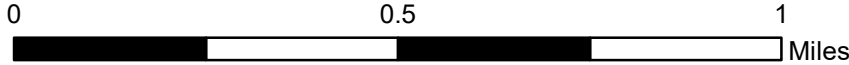
The following information is displayed, where pertinent, on the attached compartment maps:

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

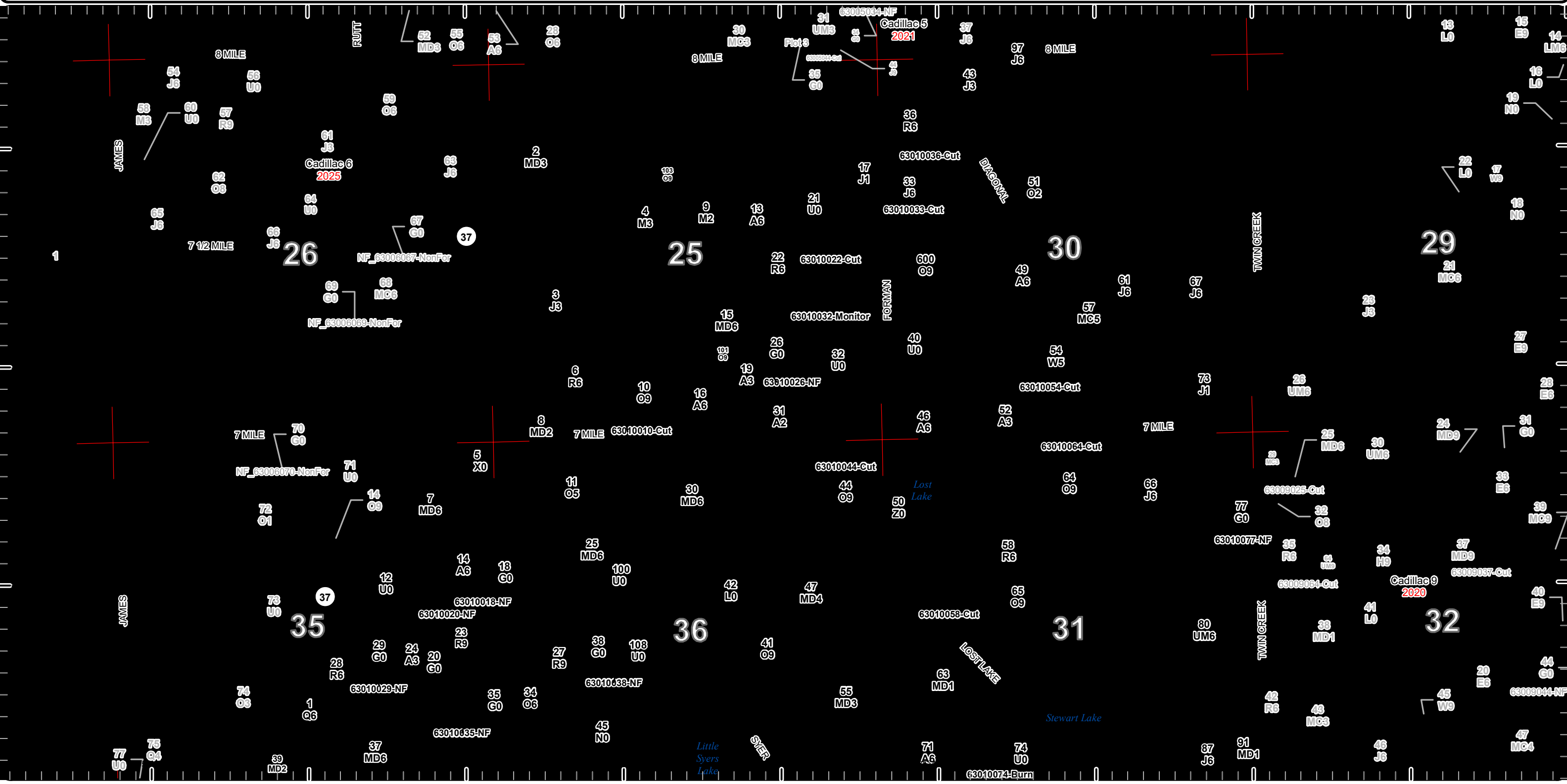
Cover Type & Treatments Map



Compartment: 10
T20N-R12W, Sec. 30,31
County: Lake
Unit: Cadillac
Mgmt Area: Lake County
Outwash
YOE: 2024
Acres: 3527.5 GIS Calculated
Examiner: James Park
Map Revised: 10/4/2022
Map Phase: Post- Review

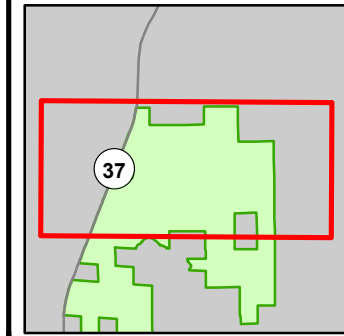
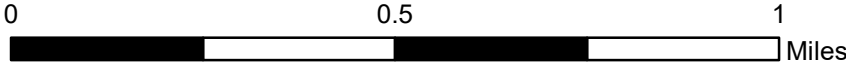


- Miris Corners
- Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Secondary Forest Road
- Federal / State Highway
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Motorcycle Trails (DNR License)
- MCCCT Trails
- ORV Routes
- Snowmobile Trails
- Designated Hiking Trails
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- Parking Lot
- Trailhead
- Drain
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Pipeline
- Powerline
- Compartment Boundary
- Other Treatment - See Comments
- Clearcut (w/Reserves)
- Patch/Strip Cut (Femelschlag)
- Prescribed Burn
- Thinning (Crown, Low, Systematic)
- Monitoring
- 412 - Oak Types
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 430 - Upland Mixed Forest
- 612 - Lowland Coniferous Forest
- 110 - Low Intensity Urban
- 211 - Cropland
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- 411 - Northern Hardwood



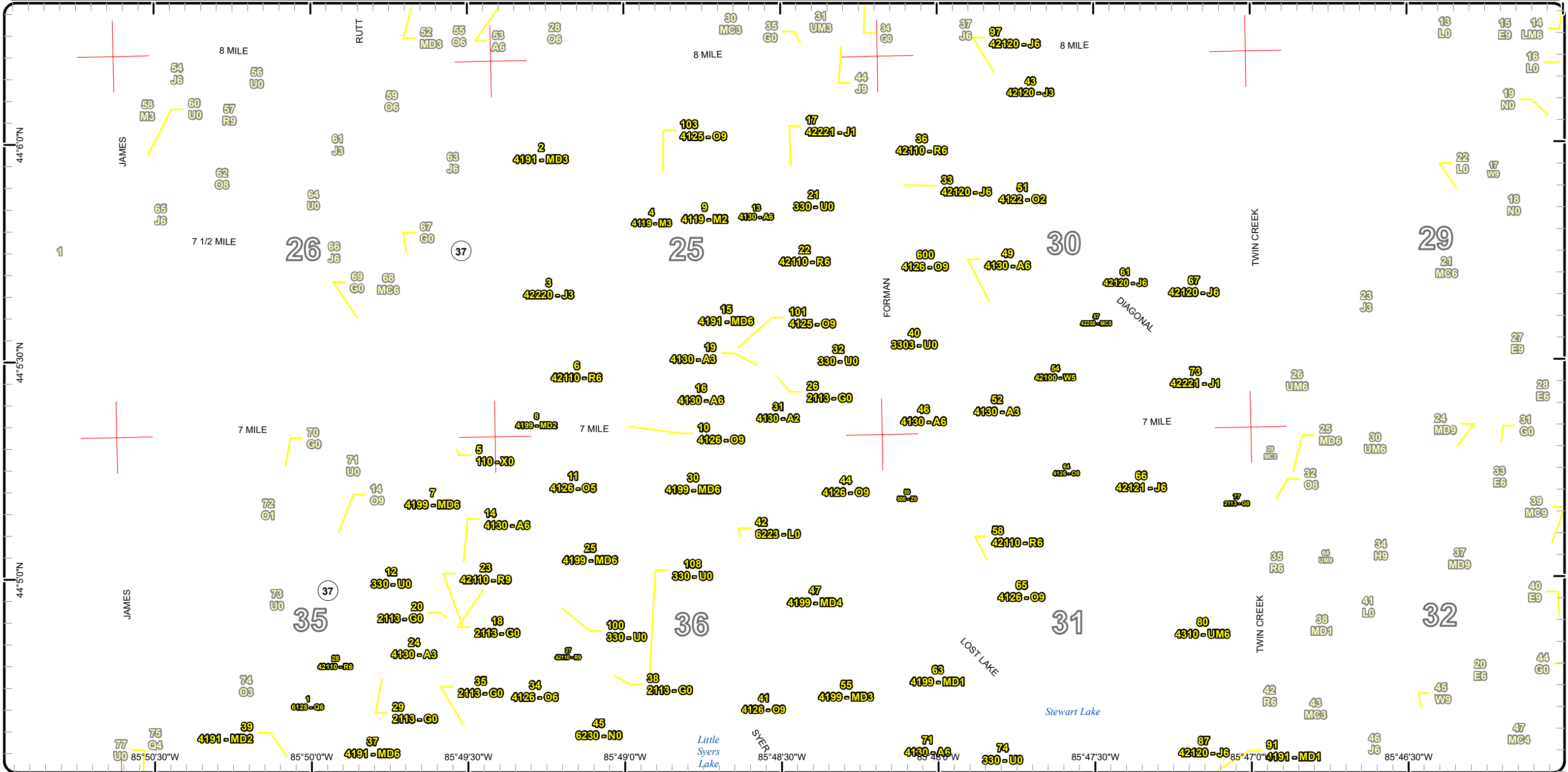
Stand Boundary Map

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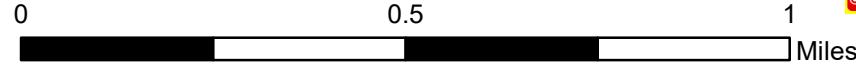
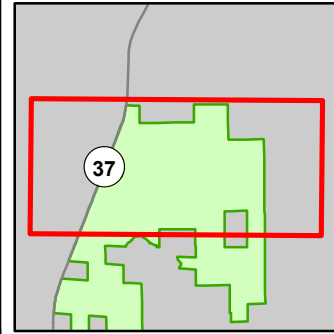
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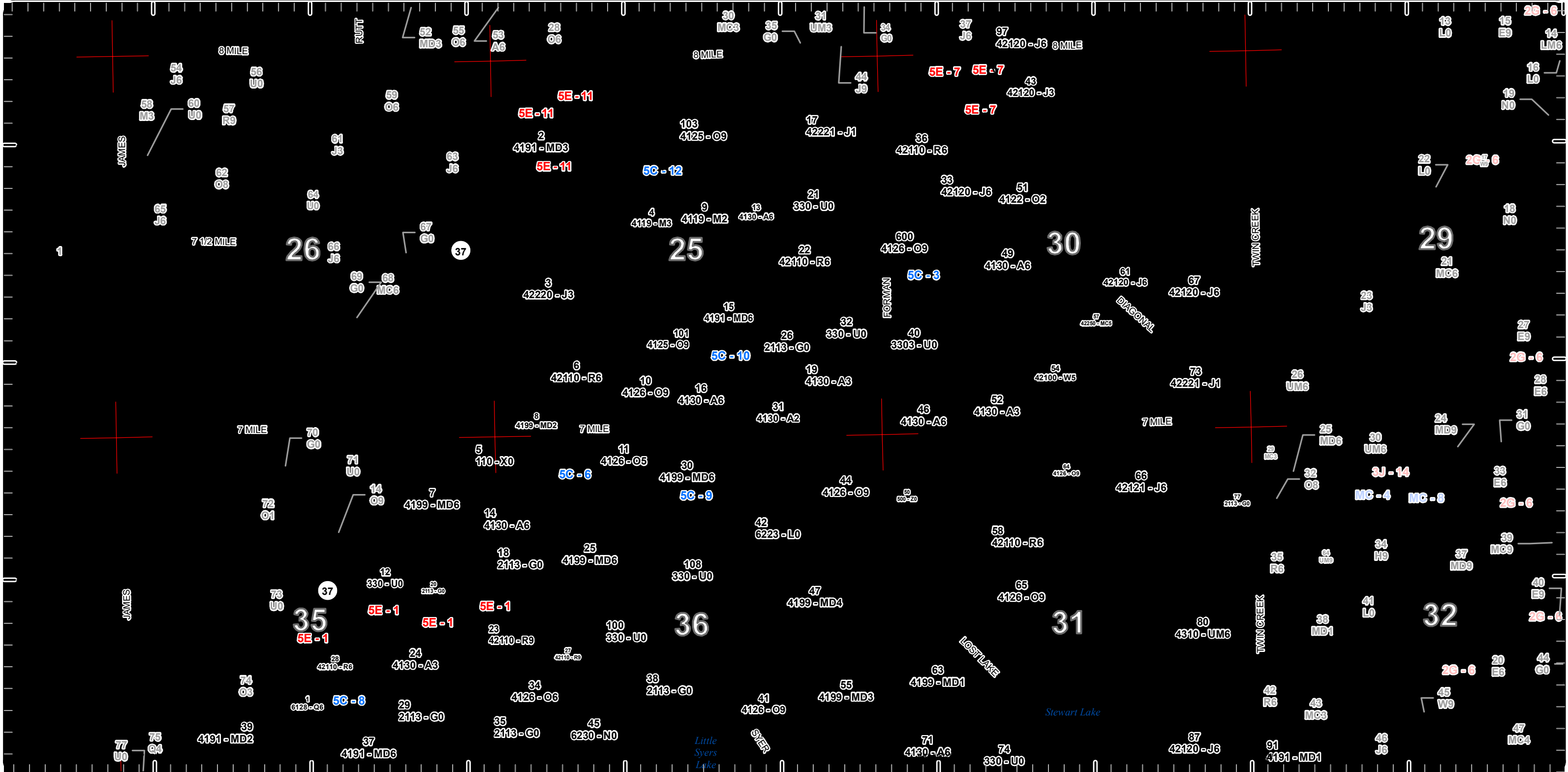


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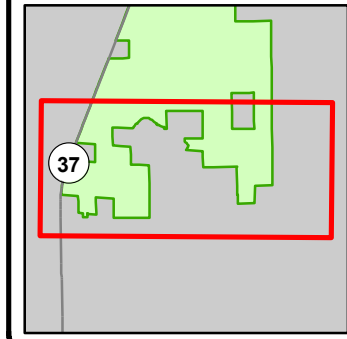
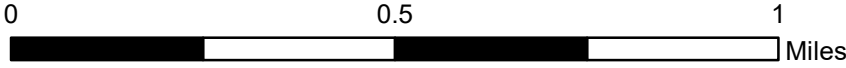


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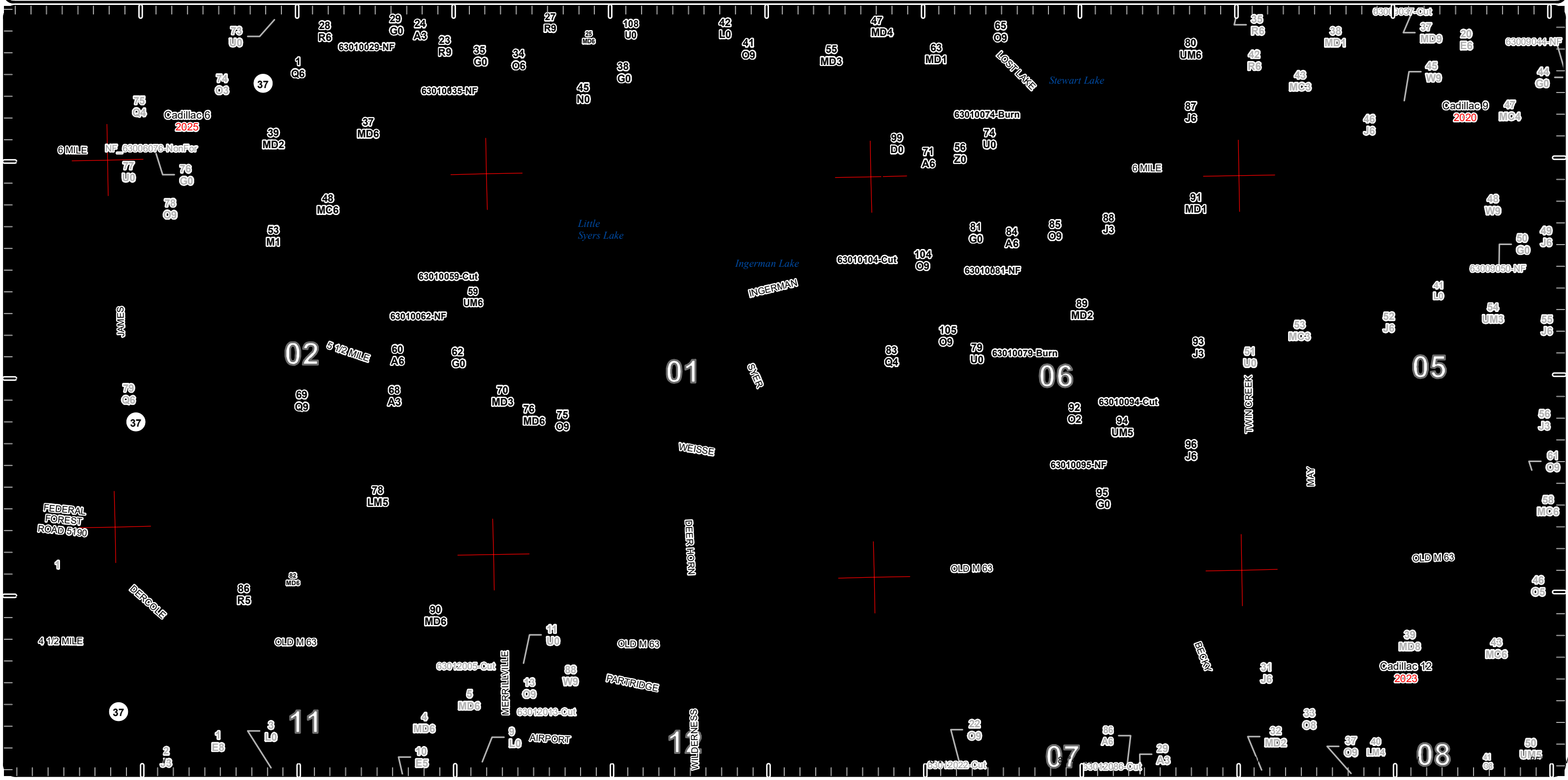


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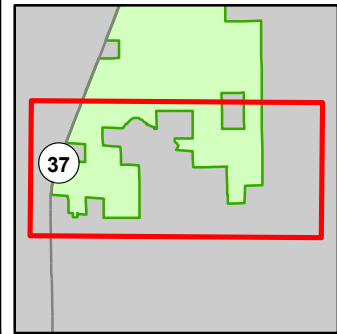
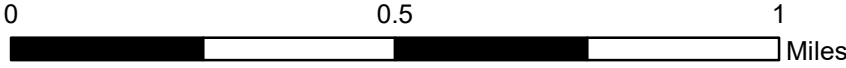


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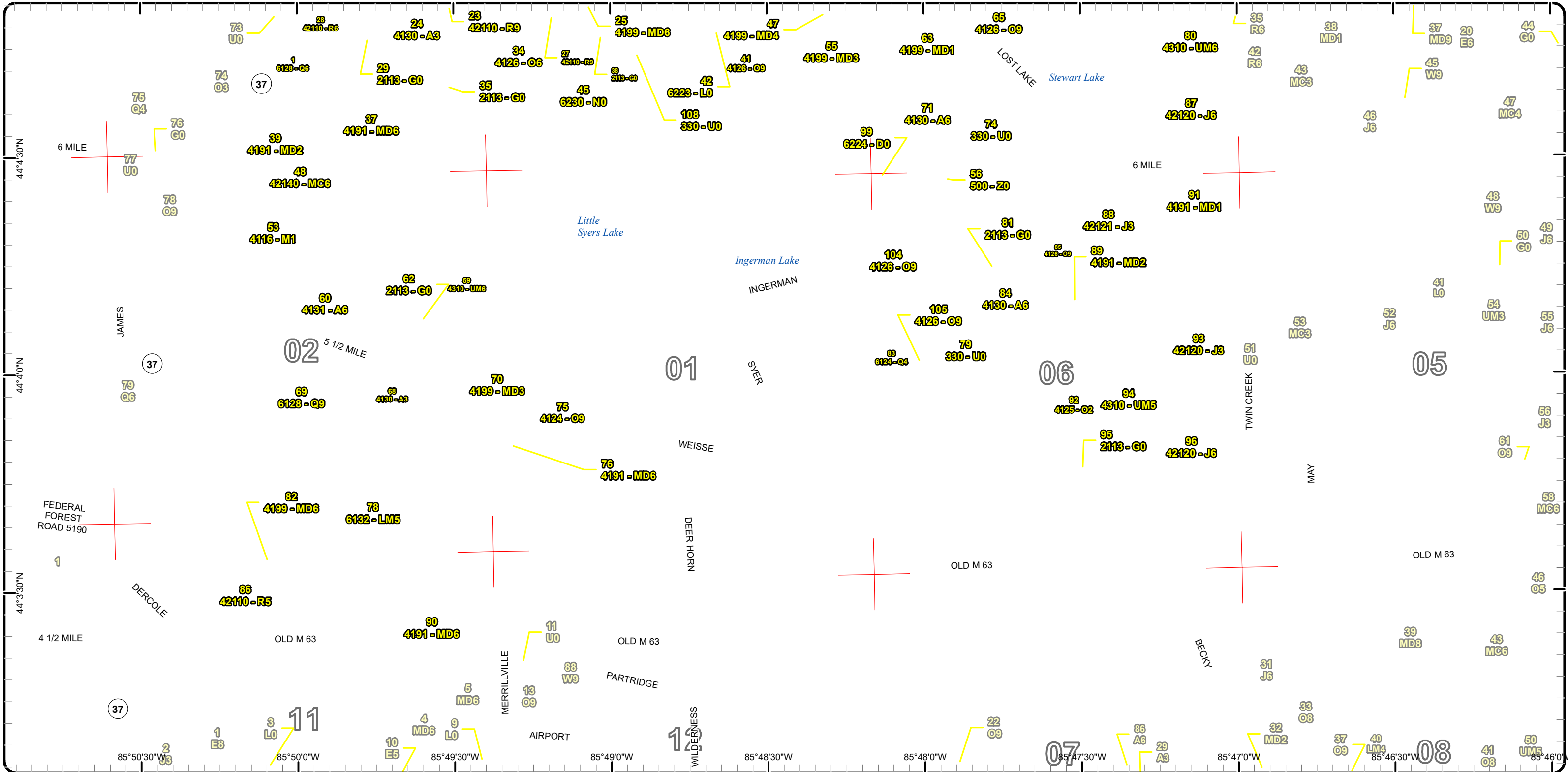


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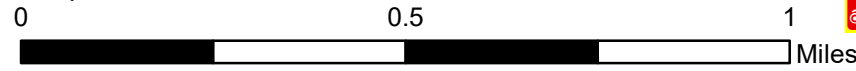
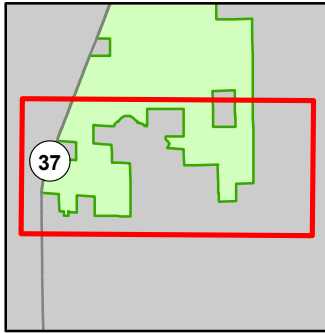


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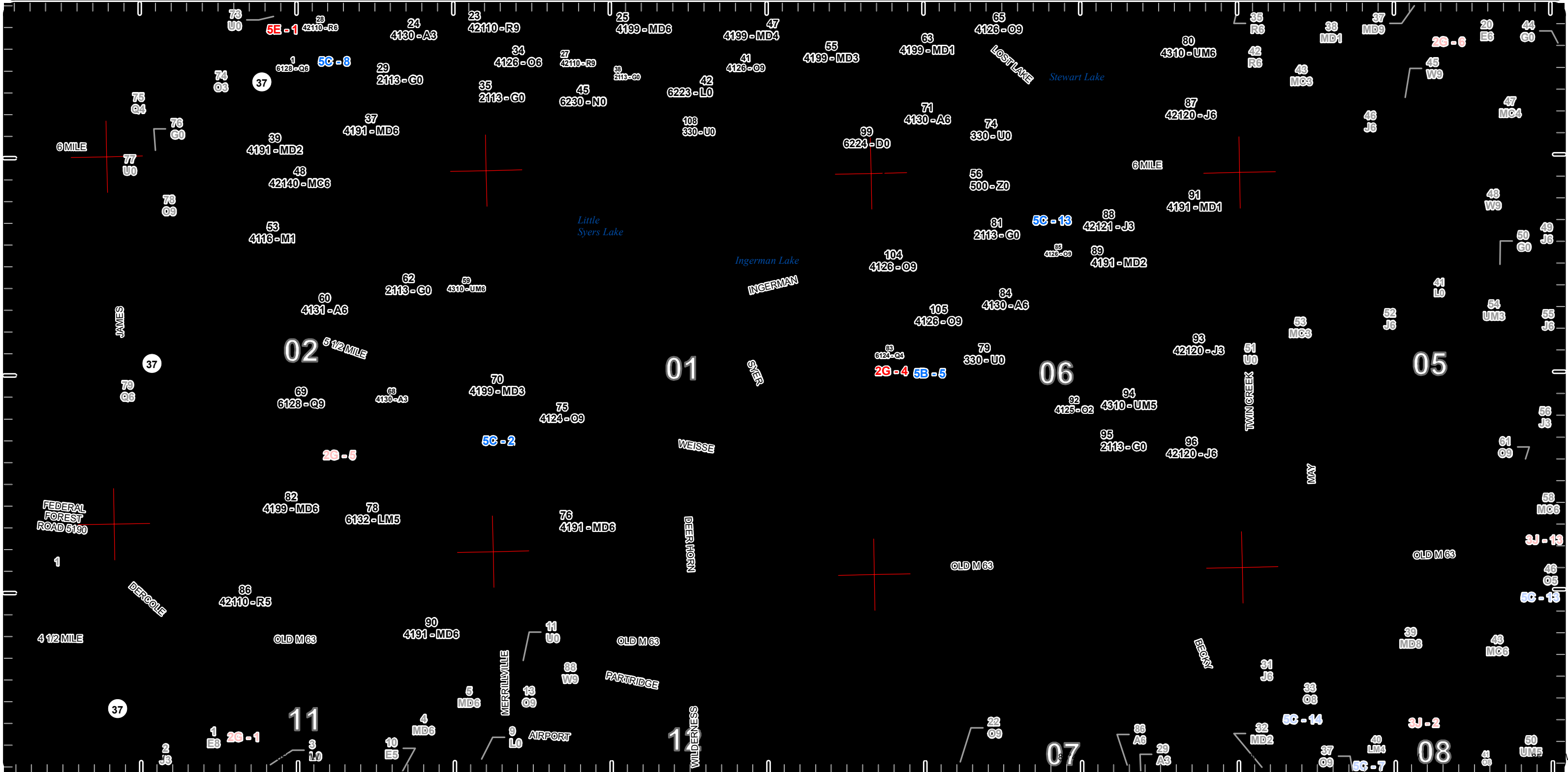


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- 2G: Too wet (sensitive soils, does not include access issues)
- 5E: Long-Term Retention
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Report 1 – Total Acres by Cover Type and Age Class



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	83	0	119	133	68	0	0	0	0	0	0	0	0	0	0	0	0	403
Cropland	28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	28
Jack Pine	0	44	65	269	35	160	10	0	0	0	0	0	0	0	0	0	0	0	583
Low-Density Trees	220	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	220
Lowland Conifers	0	0	0	0	0	8	0	0	0	18	0	0	0	0	0	0	0	101	127
Lowland Mixed Forest	0	0	0	0	0	249	0	0	0	0	0	0	0	0	0	0	0	0	249
Lowland Shrub	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17
Marsh	86	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	86
Mixed Upland Deciduous	0	102	189	183	124	15	46	0	0	0	0	0	0	0	0	0	0	0	658
Natural Mixed Pines	0	0	0	0	17	0	0	0	0	0	0	0	0	0	0	0	0	0	17
Northern Hardwood	0	29	45	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	96
Oak	0	0	52	24	0	0	0	23	194	147	52	111	0	0	0	0	0	0	603
Planted Mixed Pines	0	0	0	0	0	0	39	0	0	0	0	0	0	0	0	0	0	0	39
Red Pine	0	0	0	49	46	81	0	11	0	0	0	0	0	0	0	0	0	0	187
Treed Bog	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Upland Mixed Forest	0	0	0	0	12	0	91	0	76	0	0	0	0	0	0	0	0	0	179
Urban	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Water	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11
White Pine	0	0	0	0	0	0	0	24	0	0	0	0	0	0	0	0	0	0	24
Total	365	258	351	667	367	581	186	58	270	165	52	111	0	0	0	0	0	101	3530



Report 2 – Treatment Summary

Cadillac Mgt. Unit

Year of Entry: 2024

Acres of Harvest

Compartment 10
Total Compartment Acres: 3,528

Commercial Harvest - 420
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
Jack Pine	7	0	0	0	0	0	0	0	0	7
Oak	26	0	165	0	0	0	0	0	0	191
Red Pine	0	0	0	0	0	95	0	0	0	95
Upland Mixed Forest	91	0	0	0	0	11	0	0	0	102
White Pine	0	0	0	0	0	24	0	0	0	24
Total	124	0	165	0	0	130	0	0	0	420

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	420	0	0	0	60	0	81	0	25	586
Next Step	0	0	0	0	64	0	430	0	0	495
Total	420	0	0	0	124	0	511	0	25	1080



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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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Proposed Treatments:

18	63010018-NF	2.2	2113 - Forage Crops Nonstocked		Unspecified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		No
<p><u>Prescription</u> Maintain stand as non-forested herbaceous Openland for wildlife habitat through various methods that may included mowing, tilling, planting, overseeding and brushing or targeted herbicide application.</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></p> <p>Proposed Start Date: 10/1 /2023</p>										

20	63010020-NF	1.5	2113 - Forage Crops Nonstocked		Unspecified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		No
<p><u>Prescription</u> Maintain stand as non-forested herbaceous Openland for wildlife habitat through various methods that may included mowing, tilling, planting, overseeding and brushing or targeted herbicide application.</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></p> <p>Proposed Start Date: 10/1 /2023</p>										

26	63010026-NF	1.9	2113 - Forage Crops Nonstocked		Unspecified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		No
<p><u>Prescription</u> Maintain stand as non-forested herbaceous Openland for wildlife habitat through various methods that may included mowing, tilling, planting, overseeding and brushing or targeted herbicide application.</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></p> <p>Proposed Start Date: 10/1 /2023</p>										



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Treatment ID	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
29	63010029-NF	1.3	2113 - Forage Crops	Nonstocked		Unspecified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		No
<p><u>Prescription</u> Maintain stand as non-forested herbaceous Openland for wildlife habitat through various methods that may included mowing, tilling, planting, overseeding and brushing or targeted herbicide application.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											
32	63010032-Monitor	80.5	330 - Low-Density Trees	Nonstocked	0	Unspecified	Monitoring	Prescribed Burn	412 - Oak Types	Even-Aged	No
<p><u>Prescription</u> Monitor previous Rx burn to determine if any additional resources need to be applied to this stand to achieve objectives.</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 Regen:</u></p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											
35	63010035-NF	2.9	2113 - Forage Crops	Nonstocked		Unspecified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		No
<p><u>Prescription</u> Maintain stand as non-forested herbaceous Openland for wildlife habitat through various methods that may included mowing, tilling, planting, overseeding and brushing or targeted herbicide application.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											
38	63010038-NF	3.0	2113 - Forage Crops	Nonstocked		Unspecified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		No
<p><u>Prescription</u> Maintain stand as non-forested herbaceous Openland for wildlife habitat through various methods that may included mowing, tilling, planting, overseeding and brushing or targeted herbicide application.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</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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62	63010062-NF	1.7	2113 - Forage Crops Nonstocked		Unspecified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		No
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Prescription Maintain stand as non-forested herbaceous Openland for wildlife habitat through various methods that may included mowing, tilling, planting, Specs: overseeding and brushing or targeted herbicide application.

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2023

77	63010077-NF	9.9	2113 - Forage Crops Nonstocked		Unspecified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		No
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Prescription Maintain stand as non-forested herbaceous Openland for wildlife habitat through various methods that may included mowing, tilling, planting, Specs: overseeding and brushing or targeted herbicide application.

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2023

81	63010081-NF	2.2	2113 - Forage Crops Nonstocked		Unspecified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		No
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Prescription Maintain stand as non-forested herbaceous Openland for wildlife habitat through various methods that may included mowing, tilling, planting, Specs: overseeding and brushing or targeted herbicide application.

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2023



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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
95 63010095-NF	1.0	2113 - Forage Crops	Nonstocked		Unspecified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		No
<p><u>Prescription</u> Maintain stand as non-forested herbaceous Openland for wildlife habitat through various methods that may included mowing, tilling, planting, overseeding and brushing or targeted herbicide application.</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></p> <p>Proposed Start Date: 10/1 /2023</p>										

Approved Treatments:

10 63010010-Cut	10.2	4126 - White, Black, N. Pin Oak	Sawtimber Well	99	111-140	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	No
<p><u>Prescription</u> Clearcut with island retention. Use 2 in spec. Do not cut white pine. Use trail protection spec. Use grouse spec. Use oak wilt spec with exceptions.</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> White oak, black/red hybrid oak, red maple, aspen, white pine, jack pine</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 /2023</p>										
22 63010022-Cut	37.5	42110 - Planted Red Pine	Poletimber Well	43	111-140	Harvest	Systematic Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Third row thin the red pine. Use oak wilt spec with exceptions. Use trail protection spec.</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></p> <p>Proposed Start Date: 10/1 /2023</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
33 63010033-Cut	7.4	42120 - Planted Jack Pine	Poletimber Well	56	81-110	Harvest	Clearcut	42250 - Pine, Oak	Even-Aged	No
<p><u>Prescription</u> Clearcut with no retention due to small size. Use trail protection spec. Use oak wilt spec with exceptions. 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> Jack pine, white pine, red pine, oak types, upland deciduous species.</p> <p><u>Regen:</u></p> <p><u>Other</u> There is a trail club sign hanging within this stand. Take care to protect the sign and the trees associated with it.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										
36 63010036-Cut	45.9	42110 - Planted Red Pine	Poletimber Well	35	141-170	Harvest	Systematic Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Remove 1/3 of the red pine through row thinning. Retention in the form of the remaining 2/3. Use trail protection spec. Use oak wilt spec with exceptions.</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></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										
44 63010044-Cut	101.2	4126 - White, Black, N. Pin Oak	Sawtimber Well	100	111-140	Harvest	Strip/Patch/Gap Cut (Femelschlag)	4199 - Other Mixed Upland Deciduous	Even-Aged	No
<p><u>Prescription</u> Treat approx. 50% of this stand with a patch/strip cut. Focus the bulk of the cut to the west of Lost Lake. Use the timbersale to obliterate the illegal orv trails. Use trail protection spec. Use grouse drumming log spec. Do not cut white pine. Use oak wilt spec with exceptions. Follow bmp manual for appropriate buffer width around Lost Lake.</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> Oak spp., aspen, red maple, white pine, other upland deciduous species.</p> <p><u>Regen:</u></p> <p><u>Other</u> Lost lake is a popular dispersed camping site with multiple illegal orv trails and a footpath leading from 7 mile rd to the lake. Obliterate these paths as there is ample access to the lake via the pinevalley pathway.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										
54 63010054-Cut	24.2	42100 - Planted White Pine	Poletimber Medium	61	141-170	Harvest	Systematic Thinning	42140 - Planted Mixed Pine	Even-Aged	No
<p><u>Prescription</u> Remove 50% of this stand using a take 2 leave 2 row pattern. Retention will be in the form of residual trees. Use trail protection spec. Use oak wilt spec. Use grouse spec.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Red pine, white pine, jack pine, red maple, hybrid oak, other upland deciduous species.</p> <p><u>Regen:</u></p> <p><u>Other</u> Work with the loggers to establish a cutting pattern as the rows are not identifiable for the most part within this stand.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</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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58	63010058-Cut	11.3	42110 - Planted Red Pine	Poletimber Well	61	141-170	Harvest	Systematic Thinning	4211 - Planted Red Pine	Even-Aged	No
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Prescription Remove 1/3 of the red pine from this stand. Retention will be the remaining 2/3. Use oak wilt spec with exceptions.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other Comment: This is a 61 year old planted red pine stand that has never been thinned. Row thinning the main section of the stand to the south of the frost pocket will not present any significant issues. The pine surrounding the frost pocket, however, may prove challenging. The rows are in concentric circles surrounding the opening and there are some fairly steep portions of topography. Work with the loggers to identify the safest method to achieve 1/3 removal in this portion of the stand.

Site Condition

Proposed Start Date: 10/1 /2023

59	63010059-Cut	11.1	4310 - Pine, Oak Mix	Poletimber Well	38	111-140	Harvest	Low Thinning	4310 - Pine, Oak Mix	Even-Aged	No
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Prescription Row thin this stand cutting all species within a row. Retention will be in the form of the remaining 2/3rds of the stand. Use oak wilt spec with exceptions. Use trail protection spec.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other Comment: Work with the producer to establish rows if they have difficulty following them on the ground.

Site Condition

Proposed Start Date: 10/1 /2023

64	63010064-Cut	15.5	4126 - White, Black, N. Pin Oak	Sawtimber Well	84	51-80	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	No
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Prescription Final harvest clearcut with island retention. Cut all species. Use 2 in spec. Protect trails within the stand. Cut all aspen and expand clones where possible. Use grouse spec. Use oak wilt spec with exceptions.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Oak types, aspen, red maple, and various upland conifers.

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2023



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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	63010074-Burn	28.1	330 - Low-Density Trees	Nonstocked	0	Unspecified	Burn	Understory	4199 - Other Mixed Upland Deciduous	Two-Aged	No
<p><u>Prescription</u> Periodic RXB to set back red maple</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> oak and other mixed upland deciduous</p> <p><u>Regen:</u></p> <p><u>Other</u> Percent to Treat = 100%</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 6 /16/2017</p>											
79	63010079-Burn	32.0	330 - Low-Density Trees	Nonstocked	0	Unspecified	Burn	Understory	4121 - Oak, Aspen	Even-Aged	No
<p><u>Prescription</u> Burn to set-back red maple.</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> Mix of oak and aspen with other upland species.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 6 /21/2017</p>											
94	63010094-Cut	91.3	4310 - Pine, Oak Mix	Poletimber Medium	58	81-110	Harvest	Clearcut with Retention	4122 - Oak, Pine	Even-Aged	No
<p><u>Prescription</u> Clearcut with standard retention. Cut all merchantable trees. Use island retention to capture a mix of the representative species within the stand. Use oak wilt spec with exceptions.</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> Jack pine, white pine, red pine, red maple, white oak, black/red hybrid oak, aspen</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											
104	63010104-Cut	64.2	4126 - White, Black, N. Pin Oak	Sawtimber Well	88	111-140	Harvest	Strip/Patch/Gap Cut (Femelschlag)	4199 - Other Mixed Upland Deciduous	Even-Aged	No
<p><u>Prescription</u> Strip/patch cut 50% of this stand. Use grouse spec. Use oak wilt spec. Follow bmp manual for appropriate buffer width around Ingerman Lake.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Burn, Understory; Monitoring, Natural Regen (Intermediate)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Oak spp., aspen spp., red maple, white pine</p> <p><u>Regen:</u></p> <p><u>Other</u> Monitor the success of the Rx burn treatment in the adjacent stand number 79 to determine if an Rx burn should be applied to this stand in the future as well.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</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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Total Treatment Acreage Proposed: 588

Report 4 – Site Conditions

Cadillac Mgt. Unit
James Park : Examiner

Compartment: 10
Year of Entry: 2024

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	5B	5C	2G	5E
		With Condition	Not Available					
403	395	0	7	Aspen		0		7
28	28	0	0	Cropland				
582	580	0	3	Jack Pine		0		3
220	220	0	0	Low-Density Trees		0		
127	0	18	109	Lowland Conifers		18	109	
249	0	0	249	Lowland Mixed Forest			249	
17	17	0	0	Lowland Shrub				
86	86	0	0	Marsh				
658	595	60	2	Mixed Upland Deciduous		60		2
17	17	0	0	Natural Mixed Pines				
96	96	0	0	Northern Hardwood				
602	483	119	0	Oak	2	117		
39	39	0	0	Planted Mixed Pines				
186	186	1	0	Red Pine		1		
2	2	0	0	Treed Bog				
179	179	0	0	Upland Mixed Forest				
1	1	0	0	Urban				
11	11	0	0	Water				
24	24	0	0	White Pine		0		
3,528	2,959	198	370	Total Forested Acres	2	196	358	12
	84%	6%	11%	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	5E: Long-Term Retention	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Cadillac Mgt. Unit
James Park : Examiner

Compartment: 10
Year of Entry: 2024

2	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	14	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
3	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	43	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Available	5B: Maintain for regeneration purposes	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	46	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Cadillac Mgt. Unit
James Park : Examiner

Compartment: 10
Year of Entry: 2024

8	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	18	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
9	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	46	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
10	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
12	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
13	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	12	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 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	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	17.9	85	81-110	N/A	Mixed stand in age and composition. Super canopy white pine/red pine mixed with younger red maple/aspen. Cedar/hemlock toward the center of stand where there is standing water.																																																
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Hemlock</td> <td>10</td> <td>Log/Pole</td> <td>12</td> <td></td> </tr> <tr> <td>Red Maple</td> <td>30</td> <td>Pole</td> <td>6</td> <td></td> </tr> <tr> <td>Black/Red (Hybrid) Oak</td> <td>5</td> <td>Pole</td> <td>6</td> <td></td> </tr> <tr> <td>Northern White Cedar</td> <td>5</td> <td>Log/Pole</td> <td>10</td> <td></td> </tr> <tr> <td>White Pine</td> <td>40</td> <td>Log/XLog</td> <td>16</td> <td>85</td> </tr> <tr> <td>Red Pine</td> <td>5</td> <td>Log</td> <td>14</td> <td></td> </tr> <tr> <td>Bigtooth Aspen</td> <td>5</td> <td>Pole</td> <td>8</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Hemlock	10	Log/Pole	12		Red Maple	30	Pole	6		Black/Red (Hybrid) Oak	5	Pole	6		Northern White Cedar	5	Log/Pole	10		White Pine	40	Log/XLog	16	85	Red Pine	5	Log	14		Bigtooth Aspen	5	Pole	8		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>White Pine</td> <td>Low</td> <td>< 5 feet</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	White Pine	Low	< 5 feet	Sapling				
Canopy Species	% Cover	Size Class	DBH	Age																																																			
Hemlock	10	Log/Pole	12																																																				
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2	4191 - Mixed Upland Deciduous with Conifer	Sapling Well	68.7	5	Immature	N/A	Stand was treated in 2017 as part of sale # "63-045-13", "Salvation Seed Tree". Good regen.																																																
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3	42220 - Natural Jack Pine	Sapling Well	131.8	22	51-80	N/A	Some scattered super canopy pin oak, which shows signs of decline (several are dead).																																																
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4	4119 - Mixed Northern Hardwoods	Sapling Well	22.5	21	Immature	N/A	Previous seedtree/shelterwood. Regeneration is a mix of maple and oak.																																																
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5	110 - Low Intensity Urban	Nonstocked	1.0		Unspecified	No	Little Manistee ORV trail parking lot.																																																
6	42110 - Planted Red Pine	Poletimber Well	23.8	25	111-140	N/A	Variable dbh throughout stand. Smaller timber in general with trees ranging from 1 to 3 sticks. Mostly on the lower end of that scale. Hold and re-evaluate next entry for thinning.																																																
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7	4199 - Other Mixed Upland Deciduous	Poletimber Well	65.8	21	1-50	N/A	Stand previously treated with shelterwood harvest. Regen is a mix of maple, oak, and aspen.																																																			
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8	4199 - Other Mixed Upland Deciduous	Sapling Medium	27.2	17	Immature	N/A	Harvested in 2005 as part of the timbersale "First Timer" (sale # 63-015-04-1)																																																			
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9	4119 - Mixed Northern Hardwoods	Sapling Medium	29.1	5	Immature	N/A	Stand treated timber sale #63-027-14-01, "Continental Army Oak". Spec: Cut all trees to 4.5" dbh except green marked trees and pine under 6". Pine valley pathway and little manistee trails through stand.																																																			
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10	4126 - White, Black, N. Pin Oak	Sawtimber Well	10.2	99	111-140	N/A	Recommend final harvest.																																																			
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11	4126 - White, Black, N. Pin Oak	Poletimber Medium	45.9	81	51-80	N/A	Stand highly variable in species composition and age class. Portions of the stand have been cut at different time periods. Scattered clones of aspen. Stand was last treated in 2006 as part of "Spider Webs & Intrigue" (Sale #63-057-05-01). All red maple and aspen were cut out at this time as well as orange marked trees.																																																			
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13	4130 - Aspen	Poletimber Well	8.1	36	81-110	N/A	Small stand. Not ready for commercial harvest.																												
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16	4130 - Aspen	Poletimber Well	31.5	28	51-80	N/A	Stand not ready for commercial harvest.																												
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17	42221 - Natural Jack Pine, Mixed Deciduous	Sapling Poor	22.5	16	Immature	N/A	Stand clear cut in 2006 - 2007. Patchy regen thus far.																												
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18	2113 - Forage Crops	Nonstocked	2.2		Unspecified	Managed Opening	Managed wildlife opening.																												



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19	4130 - Aspen	Sapling Well	7.4	5	Immature	N/A	Stand treated timber sale #63-027-14-01, "Continental Army Oak". Specs: Cut all trees to 4.5" dbh except trees marked with green paint and any pine less than 6" dbh. Pine valley pathway through stand.																														
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20	2113 - Forage Crops	Nonstocked	1.5		Unspecified	Managed Opening	Planted wildlife opening.																														
21	330 - Low-Density Trees	Nonstocked	23.5	0	Unspecified	4122 - Oak, Pine	Stand treated timber sale #63-027-14-01, "Continental Army Oak" Specs: Cut all trees to 4.5" dbh except green ringed trees and pine less than 6". Pine valley pathway runs through stand.																														
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22	42110 - Planted Red Pine	Poletimber Well	37.5	43	111-140	N/A	Thrid row thin the red pine.																														
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23	42110 - Planted Red Pine	Sawtimber Well	4.7	48	111-140	N/A	Stand treated timber sale #63-037-14-01, "Sweep the Knee Aspen and Pine". Third row thinned.																														
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24	4130 - Aspen	Sapling Well	54.9	6	Immature	N/A	Treated timber sale #63-037-14-01, "Sweep the Knee Aspen and Pine". Multiple red and white pine stands throughout the sale. See "Sweep the Knee" timber sale map for details in the surrounding stands.																														
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25	4199 - Other Mixed Upland Deciduous	Poletimber Well	66.5	26	1-50	N/A	Stand was treated as part of timbersale "OH-9 Oak" (sale # 63-031-94-1). Specs included cutting all aspen and maple as well as all oak 10" dbh or greater. Resulting stand has filled in with a mix of maple/aspen/pine heavier to maple. Recommend holding for 10 years and reevaluating at that time.																																																				
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27	42110 - Planted Red Pine	Sawtimber Well	16.1	45	111-140	N/A	Variable stand density. stand treated with sale #63-037-14-01. Third row thin																																																				
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28	42110 - Planted Red Pine	Poletimber Well	22.4	48	81-110	N/A	North half of stand is red pine and the south is white pine. Stand treated with sale #63-037-14-01. Third row thin red pine and remove 50% white pine.																																																				
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33	42120 - Planted Jack Pine	Poletimber Well	7.4	56	81-110	N/A	Final harvest.																																						
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34	4126 - White, Black, N. Pin Oak	Poletimber Well	38.8	71	51-80	N/A	Previously thinned oak stand. Heavy red maple understory.																																						
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35	2113 - Forage Crops	Nonstocked	2.9		Unspecified	Managed Opening	Planted wildlife opening.																																						
36	42110 - Planted Red Pine	Poletimber Well	45.9	35	141-170	N/A	Stand is ready for first commercial thinning.																																						
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37	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	55.4	36	81-110	N/A	Stand is of mixed age and composition.																																						
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39	4191 - Mixed Upland Deciduous with Conifer	Sapling Medium	18.9	5	1-50	N/A	Stand was treated in 2017 as part of sale #, "63-045-13", "Salvation Seed Tree".																																																						
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40	3303 - Mixed Low Density Trees	Nonstocked	21.9	0	Unspecified	4121 - Oak, Aspen	Stand treated timber sale #63-027-14-01, "Continental Army Oak". Completed in spring 2017. Specs: Cut all trees to 4.5" dbh except green painted trees and pine 6" or under. Stand was RX burned in May 2021.																																																						
41	4126 - White, Black, N. Pin Oak	Sawtimber Well	64.5	73	141-170	N/A	Variable in age and composition. Portion of stand is popular dispersed camping spot. Pine valley pathway passes through stand.																																																						
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42	6223 - Inundated Shrub Swamp	Nonstocked	17.4		Unspecified	No																																																							
43	42120 - Planted Jack Pine	Sapling Well	43.5	5	Immature	N/A	11/19/2020 - 3 year regeneration survey showed 1817 Jack Pine Seedlings per acre. Stand is fully stocked at this time. Stand treated timber sale #63-041-14-01, "Diagonal Jack". Treated fall of 2016. Site trenched in 2017, Planted 5/19/2018 to 926 tree per acre of jack pine. 1 year survey was completed 10/09/18. Survival rates were estimated to be between 85-90%. Some of the trenching is of lower quality due to the heavy amount of slash left on site. There is a good amount of natural jack pine regen. The hybrid oak is out competing the planted jack pine allowing 0-5% to grow freely.																																																						
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44	4126 - White, Black, N. Pin Oak	Sawtimber Well	101.2	100	111-140	N/A	Better quality oak. Pine valley pathway through stand.																																																						
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45	6230 - Cattail	Nonstocked	86.0		Unspecified	No																																																							



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
46	4130 - Aspen	Poletimber Well	13.5	41	111-140	N/A	Not ready for commercial harvest.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Bigtooth Aspen		75	Pole	6	41	Red Maple	
Black/Red (Hybrid) Oak		5	Sapling	4		Density	
Red Maple		20	Pole	6		Avg. Height	
						Size	
						10 - 20 feet	
						Sapling	
47	4199 - Other Mixed Upland Deciduous	Poletimber Poor	55.3	18	1-50	N/A	Previous shelterwood harvest. Heavy red maple regen. 10 to 30 BA oak and pine overstory.
Canopy Species		% Cover	Size Class	DBH	Age		
Black/Red (Hybrid) Oak		25	Log	14			
Black Cherry		5	Sapling	2			
White Pine		10	Pole	10			
White Oak		10	Pole	10			
Red Maple		50	Sapling	3	18		
48	42140 - Planted Mixed Pine	Poletimber Well	39.1	58	111-140	N/A	Stand treated timber sale #63-037-14-01, "Sweep the Knee Aspen and Pine". Third row thin red pine and remove 50% white pine. Planting records indicate the red pine was planted in 1964 and the white pine was planted in 1962.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
White Oak		2	Pole	6		Red Maple	
Black/Red (Hybrid) Oak		2	Pole	6		Density	
White Pine		44	Log/Pole	11	60	Avg. Height	
Red Pine		50	Pole/Log	9	58	Size	
Red Maple		2	Pole	6		10 - 20 feet	
						Sapling	
49	4130 - Aspen	Poletimber Well	7.0	35	81-110	N/A	Not ready for commercial harvest.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Maple		15	Pole/Sapling	7		Red Maple	
Bigtooth Aspen		80	Pole/Sapling	7	35	Density	
Black/Red (Hybrid) Oak		5	Sapling/Pole	4		Avg. Height	
						Size	
						10 - 20 feet	
						Sapling	
50	500 - Water	Nonstocked	9.2		Unspecified	No	
51	4122 - Oak, Pine	Sapling Medium	51.8	14	Immature	N/A	Stand is a mix of natural oak regen and previously planted jack pine.
Canopy Species		% Cover	Size Class	DBH	Age		
Northern Pin Oak		60	Sapling	3	14		
Red Maple		5	Sapling	3			
Jack Pine		35	Sapling	3			



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52	4130 - Aspen	Sapling Well	75.4	23	Immature	N/A																																	
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53	4116 - Mixed N. Hardwood - Aspen	Sapling Poor	44.6	13	Immature	N/A	Previous CC -- around 25% canopy closure.																																
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54	42100 - Planted White Pine	Poletimber Medium	24.2	61	141-170	N/A	61 year old pine plantation. White and red pine mixed throughout. Approx 3:1 ratio of WP to RP. BA and DBH are variable throughout this stand. Recommend thinning 50% of this stand.																																
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55	4199 - Other Mixed Upland Deciduous	Sapling Well	27.5	32	51-80	N/A																																	
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56	500 - Water	Nonstocked	1.4	0	Unspecified	No																																	
57	42250 - Pine, Oak	Poletimber Medium	16.7	34	1-50	N/A	Natural jack pine and oak regen. Several canopy gaps.																																
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58	42110 - Planted Red Pine	Poletimber Well	11.3	61	141-170	N/A	Planted red pine. Frost pocket in northern part of stand. Third row thin.																																
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																							
59	4310 - Pine, Oak Mix	Poletimber Well	12.4	38	111-140	N/A	Planted red pine with areas heavy to mixed deciduous. Third row thin the red pine.																																							
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60	4131 - Aspen, Oak	Poletimber Well	54.0	45	141-170	N/A	Mixed composition and age class. Patchy openings in stand. Stand is bordering on being commercially harvestable. Recommend holding until next entry to break up the age classes with surrounding stands.																																							
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61	42120 - Planted Jack Pine	Poletimber Well	16.9	34	81-110	N/A	34 year old planted jack pine with an oak component.																																							
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62	2113 - Forage Crops	Nonstocked	1.7		Unspecified	Managed Opening	Planted wildlife opening.																																							
63	4199 - Other Mixed Upland Deciduous	Sapling Poor	47.8	16	Immature	N/A	Stand treated in 2006 with timbersale "Trailside Oak" (sale # 63-051-05-01).Specs included cutting all red maple and aspen out.																																							
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64	4126 - White, Black, N. Pin Oak	Sawtimber Well	15.5	84	51-80	N/A	Patchy stand with variable dbh across stand. Low quality oak.																																							
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65	4126 - White, Black, N. Pin Oak	Sawtimber Well	90.5	74	51-80	N/A	Fairly steep topography towards Stewart Lake. Illegal ORV trail in stand. Scattered aspen clones. The pine valley pathway runs through this stand.																																										
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66	42121 - Planted Jack Pine, Mixed Deciduous	Poletimber Well	135.6	46	111-140	N/A	46 year old planted jack pine. Stem quality and density better towards the road. Some older jack pine towards east end of stand. Several canopy openings in stand. Recommend final harvest next entry.																																										
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67	42120 - Planted Jack Pine	Poletimber Well	47.3	25	51-80	N/A	Young planted jack pine stand. Narrow strip of older trees along north edge of stand.																																										
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68	4130 - Aspen	Sapling Well	21.0	6	Immature	N/A	Stand treated timber sale #63-037-14-01, "Sweep the Knee Aspen and Pine".																																										
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69	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well	101.0	78	81-110	N/A	Variable age class and stocking. Mix of high and low ground, but mainly low.																																										
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70	4199 - Other Mixed Upland Deciduous	Sapling Well	24.8	27	51-80	N/A	Spotty aspen clones. More aspen to the north. Varied age classes -- older to the north.																																										
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71	4130 - Aspen	Poletimber Well	60.2	36	141-170	N/A	Not ready for commercial harvest.																																										
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73	42221 - Natural Jack Pine, Mixed Deciduous	Sapling Poor	42.1	16	Immature	N/A	Young natural jack pine stand. Less than 10 BA of scattered pin oak logs. Stand was treated as part of timbersale "First Timer" (Sale # 63-015-04-1)																																										
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74	330 - Low-Density Trees	Nonstocked	22.9	0	Unspecified	4131 - Aspen, Oak	Stand treated timber sale #63-027-14-01, "Continental Army Oak". Specs: Cut all trees to a 4.5" dbh except green painted trees and any pine less than 6" dbh.																																										
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75	4124 - Red with White Oak	Sawtimber Well	22.6	69	111-140	N/A	Nicer quality oak. Fair amount of white pine recruiting.																																										
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76	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	13.9	37	111-140	N/A	Mixed aspen / pine stand. Aspen heavier towards west end of stand. Hold for next entry.																																										
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77	2113 - Forage Crops	Nonstocked	9.9		Unspecified	Managed Opening	Planted wildlife opening.																																										



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78	6132 - Mixed Lowland Forest with Cedar	Poletimber Medium	249.0	46	51-80	N/A	Stand highly variable in age class and species mix. Stand ranges from openings with cattails to 100% canopy closure. The ash and elm have died out further opening some of the larger gaps.																																										
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79	330 - Low-Density Trees	Nonstocked	31.9	0	Unspecified	4121 - Oak, Aspen	Stand treated timber sale #63-027-14-01, "Continental Army Oak". Specs: Cut all trees to a 4.5" dbh except green painted trees and any pine 6" dbh and under.																																										
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80	4310 - Pine, Oak Mix	Poletimber Well	75.7	71	111-140	N/A	Jack pine heavier to the south. Numerous canopy gaps. Stand variable in age and diameter. Final harvest Next YOE.																																										
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81	2113 - Forage Crops	Nonstocked	2.2		Unspecified	Managed Opening	Managed wildlife opening. Planted to rye.																																										
82	4199 - Other Mixed Upland Deciduous	Poletimber Well	15.1	46	81-110	N/A	Poor quality mixed stand. Recommend restarting the stand next entry.																																										
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83	6124 - Lowland Spruce-Fir	Poletimber Poor	8.1	41	1-50	N/A	Lowland conifer bog.																																										
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84	4130 - Aspen	Poletimber Well	50.7	36	111-140	N/A	Pole sized aspen. Not ready for harvest. Stem diameter gets smaller, and the stand contains more maple towards the SW corner.																																										
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86	42110 - Planted Red Pine	Poletimber Medium	24.7	26	1-50	N/A	Numerous openings in stand. Poor quality stand with high taper in the red pine. Red pine stems average 2 sticks with some being log sized at the base.																																					
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87	42120 - Planted Jack Pine	Poletimber Well	18.3	33	51-80	N/A	Not ready for commercial harvest.																																					
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88	42121 - Planted Jack Pine, Mixed Deciduous	Sapling Well	34.9	24	Unspecified	N/A																																						
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89	4191 - Mixed Upland Deciduous with Conifer	Sapling Medium	13.8	6	Immature	N/A																																						
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90	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	26.8	37	81-110	N/A	Timber larger and older to the east. Sand opening in stand. Stream in the northern portion of the stand. Gradually moves lowland to the north. Potential to harvest aspen next entry.																																																
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91	4191 - Mixed Upland Deciduous with Conifer	Sapling Poor	58.8	15	Immature	N/A	Stand contains some scattered white oak, jack pine, and cherry in the overstory.																																																
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92	4125 - Black, N. Pin Oak	Sapling Medium	23.8	29	1-50	N/A	29 year old regen from a previous clearcut. Regen is patchy and moderate at best.																																																
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93	42120 - Planted Jack Pine	Sapling Well	54.8	25	Unspecified	N/A																																																	
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94	4310 - Pine, Oak Mix	Poletimber Medium	91.3	58	81-110	N/A	Shows evidence of being row planted, but looks like it was partially harvested. Canopy is approximately 75% closed. The pin oak in the stand is poor quality.																																																
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95	2113 - Forage Crops	Nonstocked	1.0		Unspecified	Managed Opening	Planted wildlife opening.																																																



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																					
96	42120 - Planted Jack Pine	Poletimber Well	24.5	43	81-110	N/A	Variable stand, some open areas. Recommend holding until next entry for age class diversity.																																					
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97	42120 - Planted Jack Pine	Poletimber Well	2.6	58	141-170	N/A	Retention for stand 43.																																					
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99	6224 - Treed Bog	Nonstocked	2.2	0	Unspecified	No																																						
100	330 - Low-Density Trees	Nonstocked	9.2	0	Unspecified	4319 - Mixed Upland Forest	Stand was treated in 2017 as part of sale # "63-045-13", "Salvation Seed Tree".																																					
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101	4125 - Black, N. Pin Oak	Sawtimber Well	6.7	86	81-110	N/A	Pine valley pathway through stand. May want to hold this stand for age class diversity.																																					
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																						
104	4126 - White, Black, N. Pin Oak	Sawtimber Well	64.2	88	111-140	N/A	Mature oak canopy with scattered white pine, red maple, and aspen. Dense, pole-sized red maple sub-canopy throughout the stand likely a result of previous harvest activities. Recommend strip/patch cutting approx 50% of this stand.																																						
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105	4126 - White, Black, N. Pin Oak	Sawtimber Well	2.4	88	81-110	N/A	Stand borders a wetland and a previous seed tree/clearcut treatment.																																						
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108	330 - Low-Density Trees	Nonstocked	22.0	0	Unspecified	4319 - Mixed Upland Forest	Stand was treated in 2017 as part of sale # "63-045-13", "Salvation Seed Tree".																																						
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600	4126 - White, Black, N. Pin Oak	Sawtimber Well	41.7	95	111-140	N/A	Older oak stand. Quality and BA vary with topography. Pine Valley Pathway runs through stand.																																						
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