



Compartment Review Presentation

Grayling Forest Management Unit

Compartment 72015

Entry Year 2026

Acreage: 1,980

County Oscoda

Management Area: Avery Hills

Stand Examiner: Cole Michaud

Legal Description:

T28N R3E Sections 19, 20, 21, 22, 27, 28, and 33

T28N R3E Sections 19, 20, 21, 22, 27, 28, and 33

Clinton Township, Oscoda County

Identified Planning Goals:

To maintain species and structural diversity while managing for health, productivity, and sustainability throughout the compartment. To provide multiple use opportunities and incorporate any visual management needed to optimize these uses.

Soil and topography:

Soils range from Grayling and Roselawn Sands in the compartment's west half, to Emmet and Kalkaska Sandy Loams and Rubicon-Roselawn Sand.

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

This compartment consists of solid state ownership with the exception of private lands located in section 19 & 22 and around the boundary of the compartment. Private lands range from farms and full time residences to seasonal cottages.

Unique Natural Features:

No Unique Natural Features known.

Archeological, Historical, and Cultural Features:

No Archeological, Historical, or Cultural Features known.

Special Management Designations or Considerations:

None at this time.

Watershed and Fisheries Considerations:

This compartment contains a portion of a small, unnamed tributary to Boiling Springs Creek. Prescribed treatments are appropriate for the protection of this waterbody.

Wildlife Habitat Considerations:

With its mix of vernal ponds, northern hardwoods, some upland pine, oak and aspen cover types, this compartment supports a variety of wildlife species including hare, grouse, turkey and deer. Several vernal ponds exist in steep-sided potholes in the compartment.

Mineral Resource and Development Concerns and/or Restrictions

Antrim gas wells and pipelines have been developed in the compartment. There are seven active well sites. Surface sediments consist of glacial outwash sand and gravel and post glacial alluvium and an end moraine of medium-textured glacial till. The glacial drift thickness varies between 200 and 600 feet. Beneath the glacial drift is the Coldwater Shale. There is not an economic use for the Coldwater Shale Layer. Gravel pits are located in Section 27, including the State's Old Bailey Road Pit, and potential is good. The Compartment is leased for oil and gas and over half of it has been developed for the Antrim Shale.

Vehicle Access:

County roads include: Boiling Springs Road (seasonally maintained), Bailey Road, Cedar Run Road and Highway M-33. Access through Sections; 19 and 20 has been expanded by the existing flowlines. Gates have been installed at designated locations, currently the one blocking the access road to stand 405 is being driven around. The private property adjacent to State land in Section 33 is accessed only along a two track (old railroad grade) across State land.

Survey Needs:

None at this time.

Recreational Facilities and Opportunities:

The compartment does contains one designated recreational trail called the (Hunt Creek Loop) an ORV trail located in Sections 19 and 20. The compartment does support dispersed recreation in the form of hunting, as evidenced by the abundant tree stands littering the compartment.

Fire Protection:

The compartment's limited road system will affect fire access and response times. The minimal roads and steep topography within Section 27 and 28 will limit any initial attack. Some roads are sandy and may hinder access for tankers. The closest body of water, that could be used as a water source is Second Lake, located 5.5 miles to the west.

Additional Compartment Information:

Past records have shown that harvests in this area have created controversy. More effort is needed to keep township officials apprised of proposed actions.

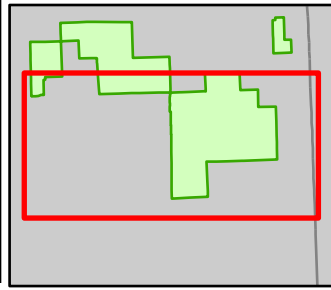
The following reports from the Inventory are attached:

- 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**

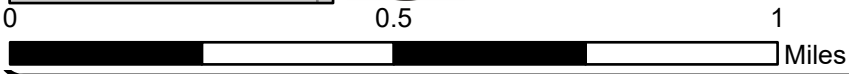
The following information is displayed, where pertinent, on the attached compartment maps:

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

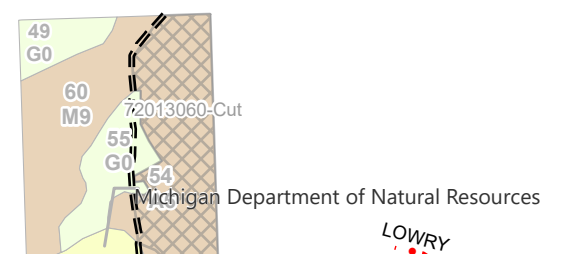
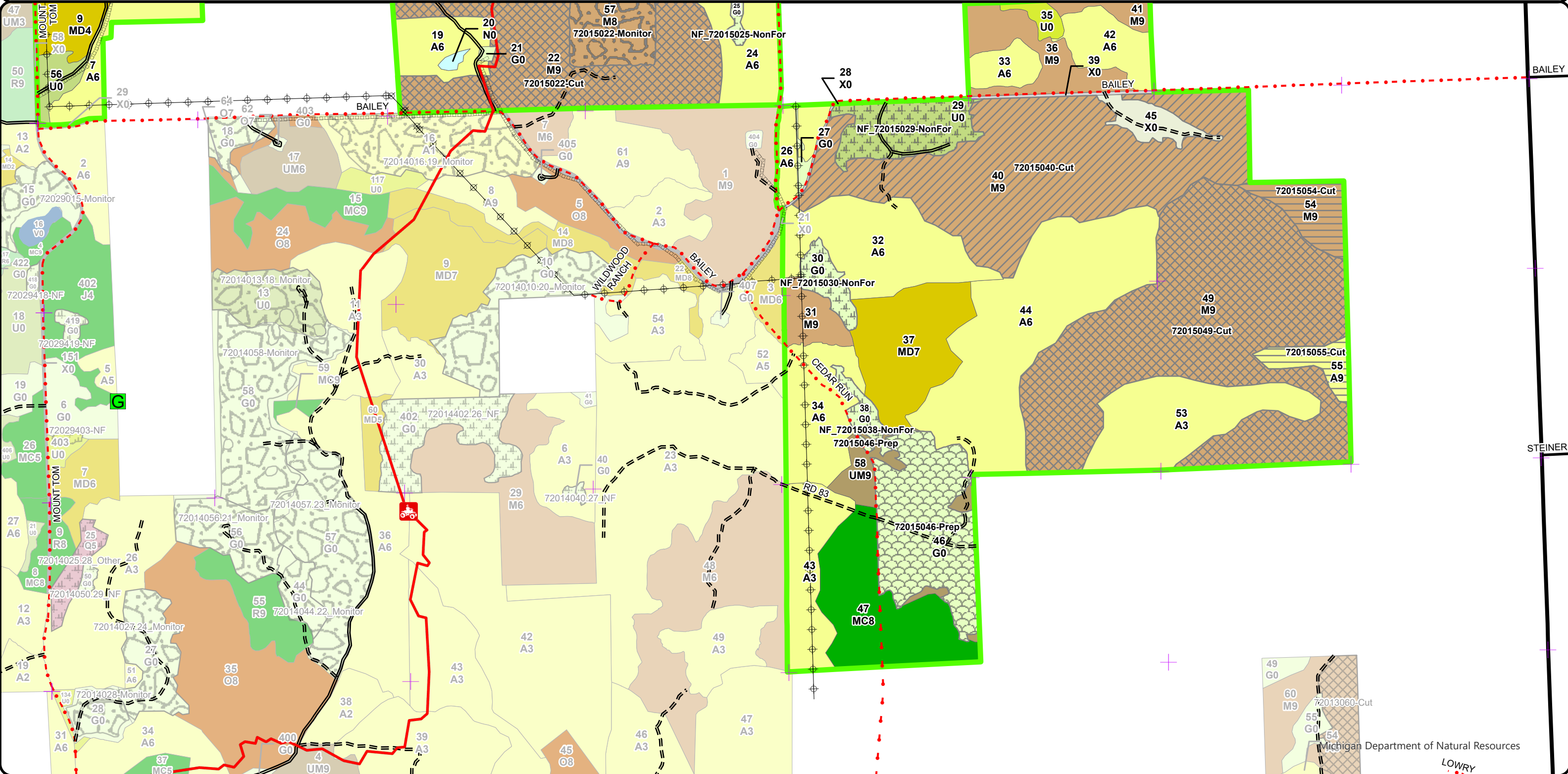
Cover Type & Treatments Map



Compartment: 72015
 T28N, R3E, Sec: 19-22, 27, 28, 33
 County: Oscoda
 Unit: Grayling
 Mgmt Area: Avery Hills
 YOE: 2026
 Acres: 1980.4 GIS Calculated
 Examiner: Cole Michaud
 Map Revised: 07/11/2024
 Map Phase: Web-Post

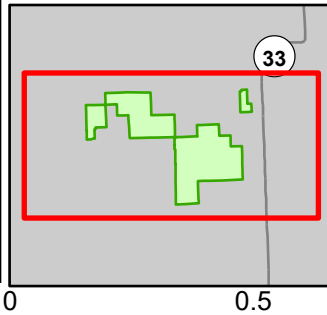


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|---------------------------------------|--------------------------------|-----------------------------------|-------------------------------------|
| Gate | County - Gravel Road | Selection (Group, Single Tree) | 422 - Natural Pines |
| Remonumented Section Corners | Lake/Pond | Clearcut (w/Reserves) | 430 - Upland Mixed Forest |
| ORV Trails | Lakes and Rivers | Thinning (Crown, Low, Systematic) | 110 - Low Intensity Urban |
| Designated ATV Trails | Pipeline | Regeneration Survey | 310 - Herbaceous Openland |
| DNR - Secondary Forest Road | Powerline | Site Prep | 320 - Upland Shrub |
| DNR - Forest Access Route | Compartment Boundary | 411 - Northern Hardwood | 330 - Low Density Trees |
| Federal / State Highway | Counties | 413 - Aspen Types | 623 - Emergent Wetland |
| Federal / State / County - Paved Road | Other Treatment - See Comments | 419 - Mixed Upland Deciduous | 790 - Other Bare/Sparsely Vegetated |



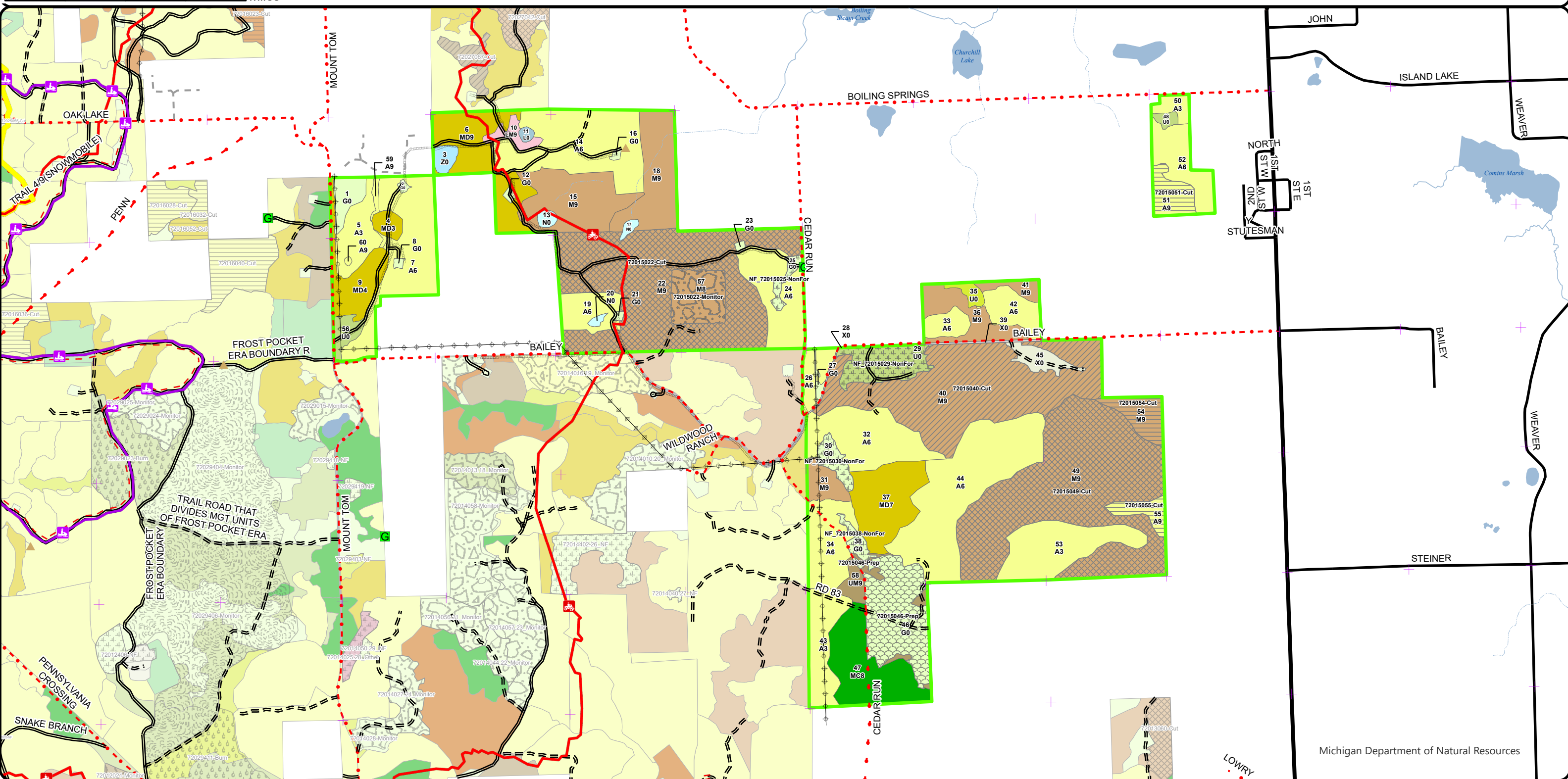
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Cover Type & Treatments Map



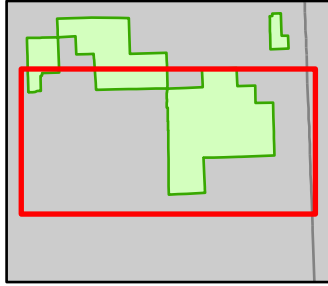
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|--------------------------------|---|----------------------------------|-------------------------------------|---------------------------------------|
| ▲ Berms | — Designated MCCCT Trails | — Lake/Pond | ▨ Clearcut (w/Reserves) | ■ 613 - Lowland Mixed Forest |
| ⊕ Gate | — DNR - Secondary Forest Road | — Perennial River | ▨ Thinning (Crown, Low, Systematic) | ■ 110 - Low Intensity Urban |
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| ORV Trails | — Federal / State Highway | — Pipeline | ▨ Site Prep | ■ 320 - Upland Shrub |
| ORV Routes | — Federal / State / County - Paved Road | — Powerline | ■ 411 - Northern Hardwood | ■ 330 - Low Density Trees |
| ⊕ Snowmobile Trails | — County - Gravel Road | ▭ Compartment Boundary | ■ 413 - Aspen Types | ■ 500 - Water |
| — Designated ORV Routes | — Private - Dirt / Gravel Road | ▭ Counties | ■ 419 - Mixed Upland Deciduous | ■ 622 - Lowland Shrub |
| — Designated Snowmobile Trails | — DNR - Management Access | ▨ Other Treatment - See Comments | ■ 422 - Natural Pines | ■ 623 - Emergent Wetland |
| — Designated ATV Trails | — Intermittent Stream | ▨ Selection (Group, Single Tree) | ■ 430 - Upland Mixed Forest | ■ 790 - Other Bare/Sparsely Vegetated |



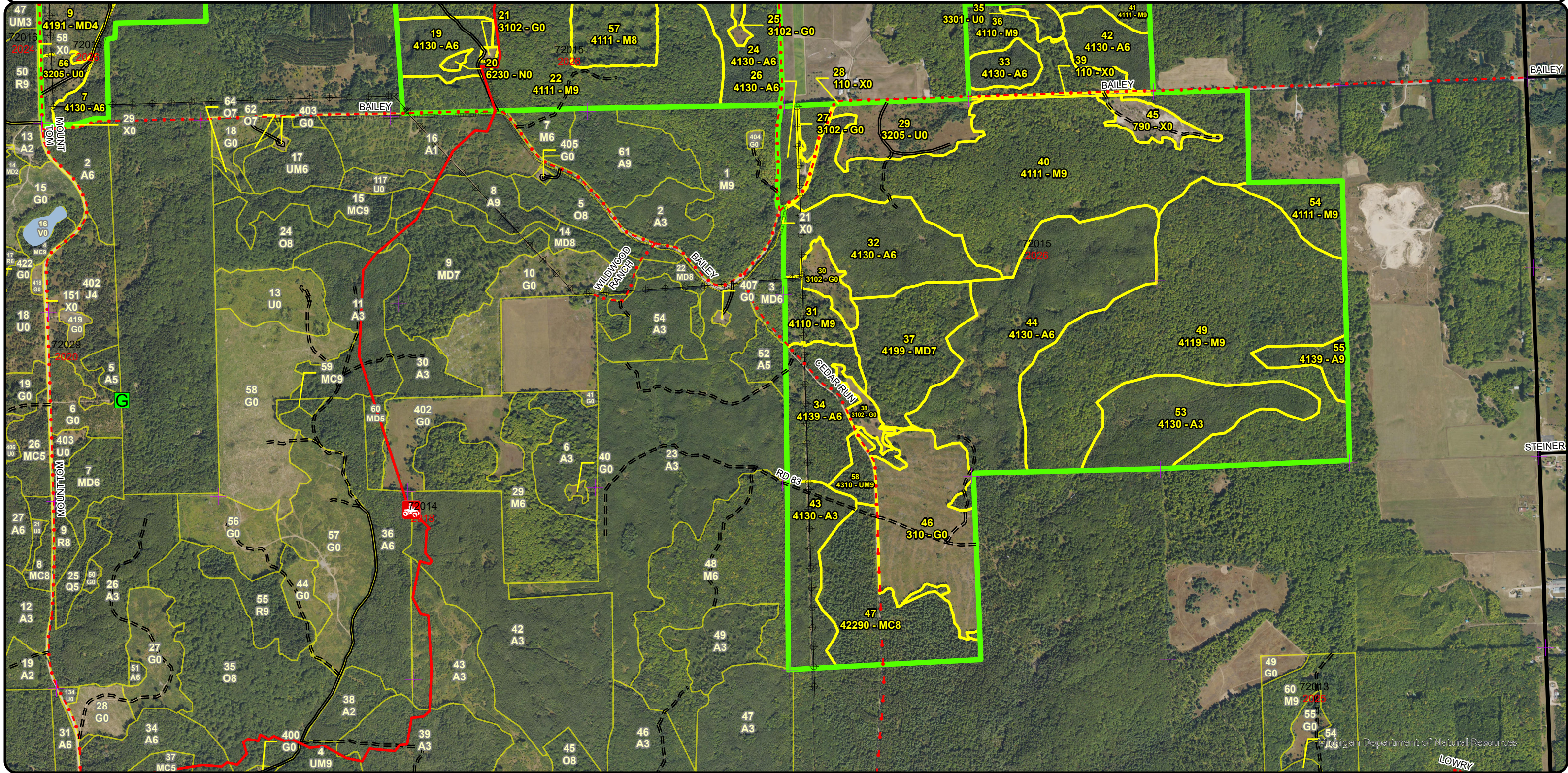
Stand Boundary Map

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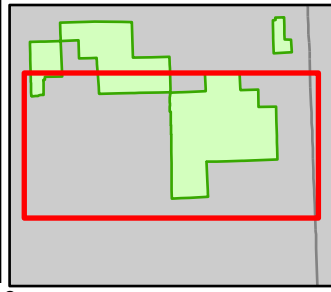


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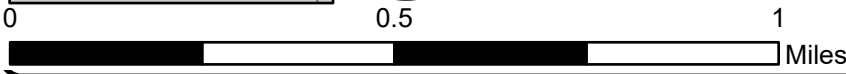
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**Special Conservation Areas
& Site Conditions Map**

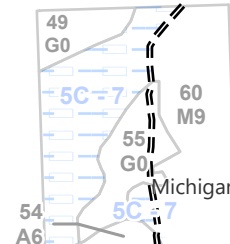
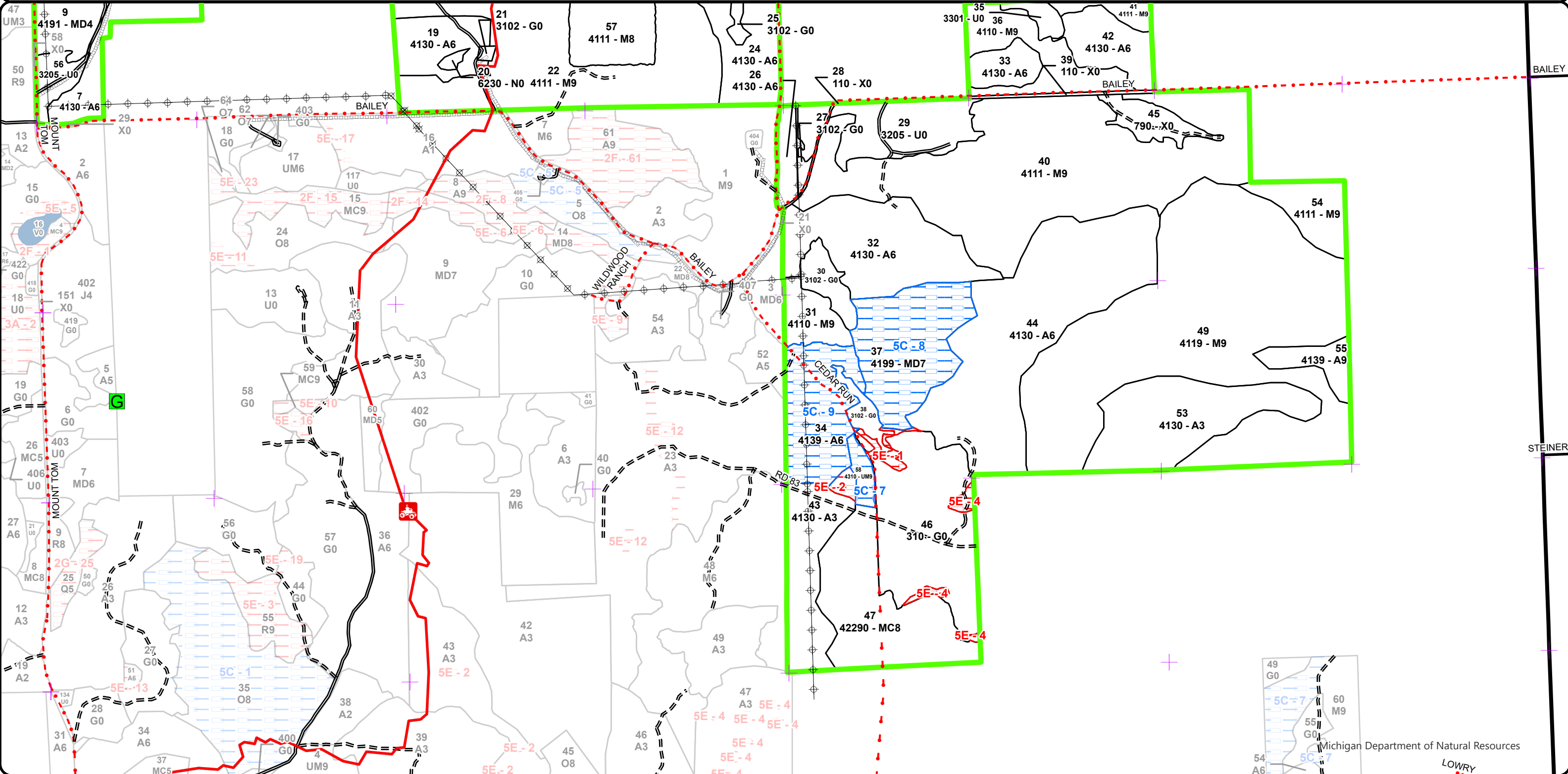


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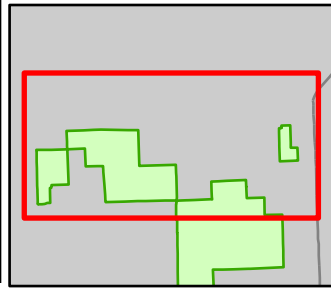


- Gate
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- DNR - Secondary Forest Road
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- Compartment Boundary
- Counties
- Available w/ Constraints
- Unavailable
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 5E: Long-Term Retention
- Stand Boundaries



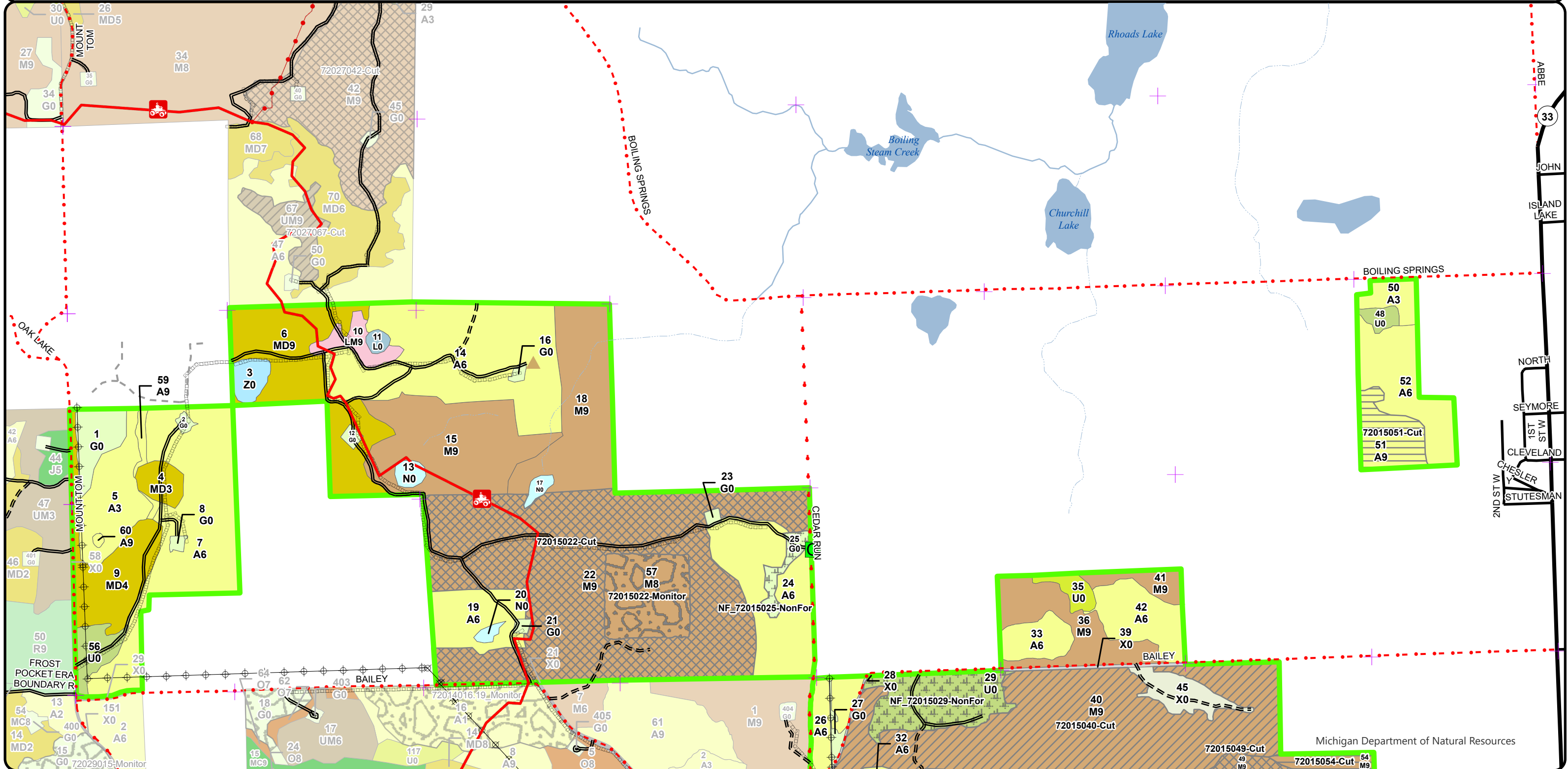
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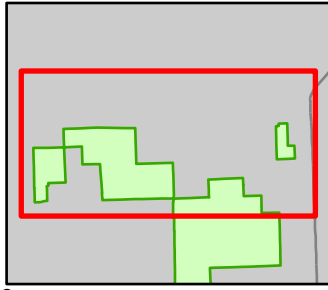


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- Other Treatment - See Comments
- Selection (Group, Single Tree)
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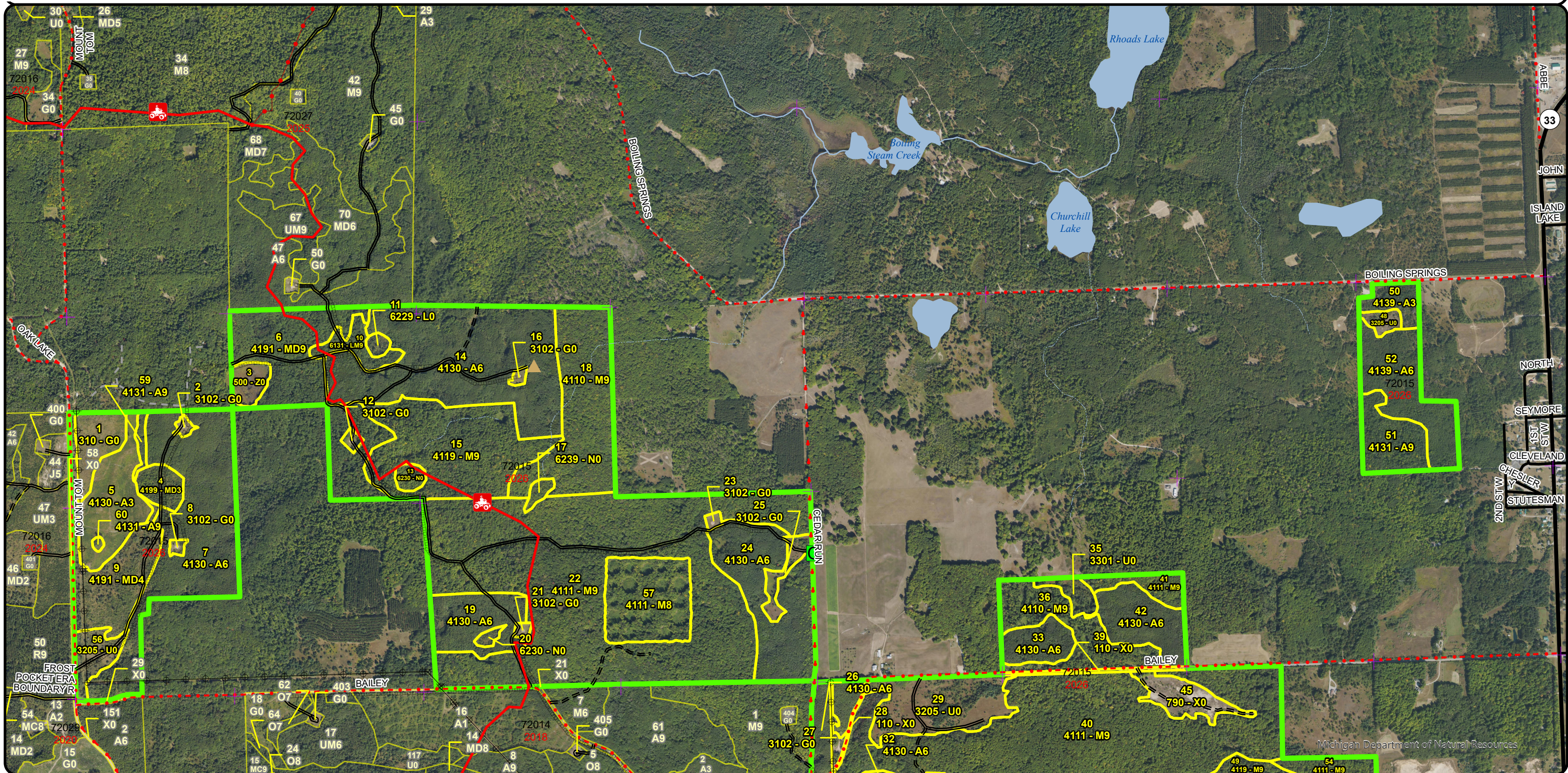


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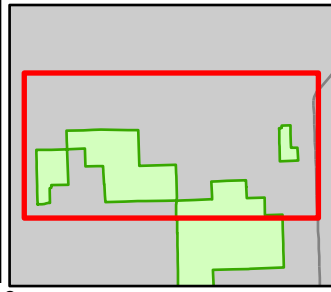
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Special Conservation Areas & Site Conditions Map

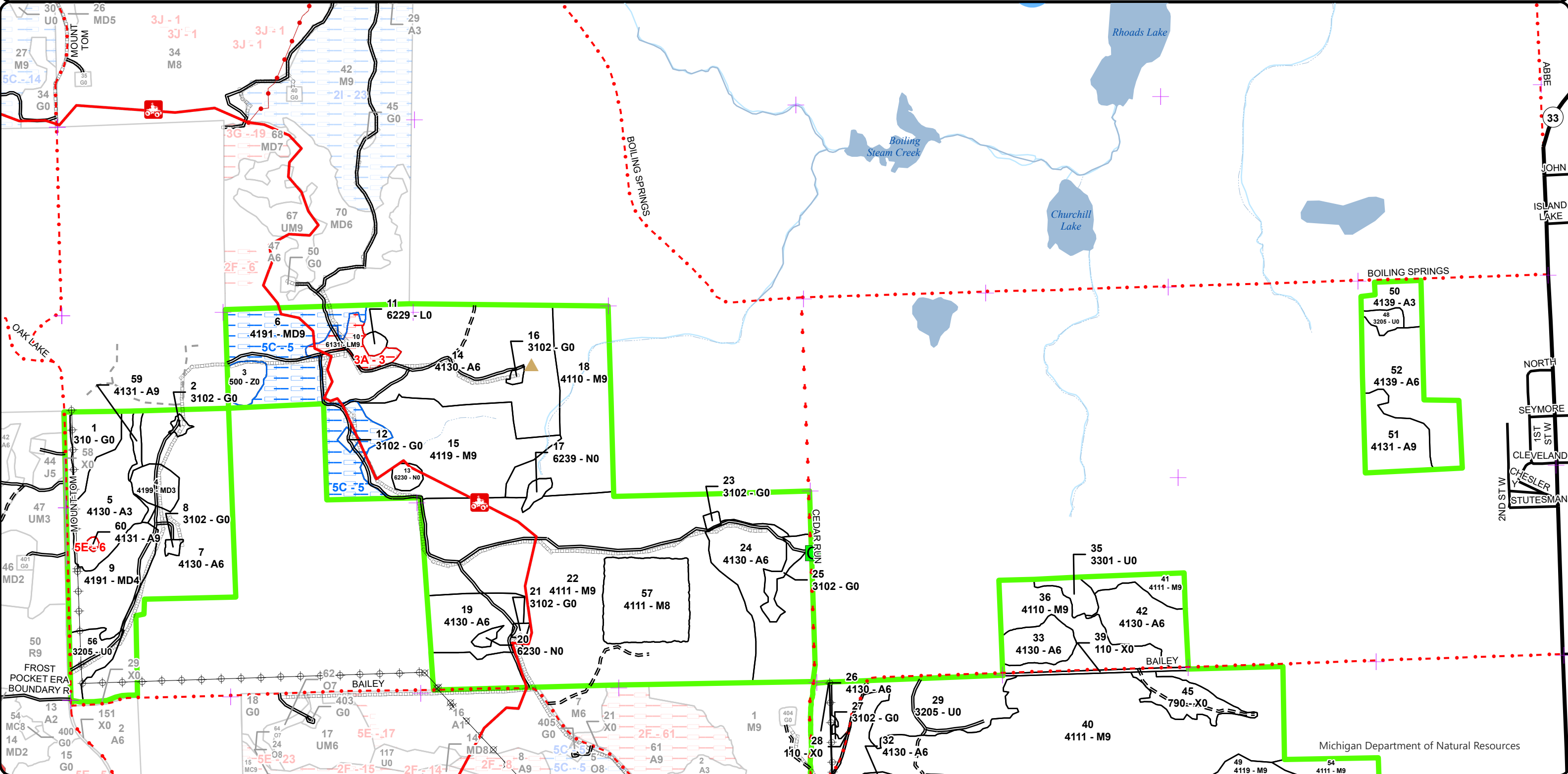
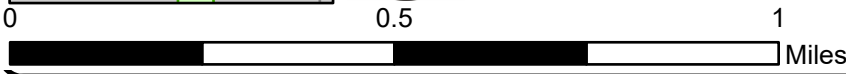


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- Counties
- Available w/ Constraints
- Unavailable
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 3A: Conservation Values incompatible with harvest at this time
- 5E: Long-Term Retention
- Stand Boundaries
- Ecological Reference Areas
- Cold Water Streams
- High Priority Trout Stream Buffer



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+	Unseen-Aged	Total
Aspen	0	27	0	76	529	0	73	0	0	0	0	0	0	0	0	0	0	0	704
Bare/Sparsely Vegetated	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
Herbaceous Openland	112	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	112
Low-Density Trees	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	0	0	0	8	0	0	0	0	0	8
Lowland Shrub	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Marsh	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
Mixed Upland Deciduous	0	0	7	0	31	0	0	0	0	0	0	53	57	0	0	0	0	0	148
Natural Mixed Pines	0	0	0	0	0	0	0	0	0	61	0	0	0	0	0	0	0	0	60
Northern Hardwood	0	0	0	0	0	0	0	0	0	0	14	547	290	0	0	0	0	0	851
Upland Mixed Forest	0	0	0	0	0	0	0	0	0	15	0	0	0	0	0	0	0	0	15
Upland Shrub	45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	45
Urban	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Water	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Total	193	27	7	76	560	0	73	0	0	76	14	600	355	0	0	0	0	0	1979



Report 2 – Treatment Summary

Grayling Mgt. Unit

Compartment 15

Year of Entry: 2026

Acres of Harvest

Total Compartment Acres: 1,980

Commercial Harvest - 685
 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	Overshory Removal	Salvage	Other	Total Acres
Aspen	30	0	0	0	0	0	0	0	0	30
Northern Hardwood	20	453	0	0	0	183	0	0	0	655
Total	49	453	0	0	0	183	0	0	0	685

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	685	69	0	0	0	0	32	0	55	840
Next Step	0	69	69	0	0	274	877	0	0	1288
Total	685	137	69	0	0	274	909	0	55	2128



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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:

22	72015022-Cut	214.2	4111 - S.Maple, Hard Mast Association	Sawtimber Well	106	111-140	Harvest	Single Tree Selection	4110 - Sugar Maple Association	Even-Aged	No
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Prescription Specs: Mark to thin stand to a residual BA of 80, while implementing canopy gaps where possible. While thinning around crop trees that have large and vigorous crowns, release those crop tree crowns on all four sides. Gaps can range in size from 50 foot radius to 100 foot radius.

Also consider operability when marking in areas with steep slopes.

Trail protection specs
slope protection specs

Next Step Treatments: Monitoring, Natural Regen (Intermediate)

Acceptable Regen: Any combination of maple, birch, beech, basswood, or oak that meets minimum stocking requirements.

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2025

40	72015040-Cut	183.0	4111 - S.Maple, Hard Mast Association	Sawtimber Well	108	111-140	Harvest	Crown Thinning	4110 - Sugar Maple Association	Even-Aged	No
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Prescription Specs: Mark to thin stand to a residual BA of 80, while implementing canopy gaps where possible. While thinning around crop trees that have large and vigorous crowns, release those crop tree crowns on all four sides. Gaps can range in size from 50 foot radius to 100 foot radius.

Also consider operability when marking in areas with steep slopes.

Slope protection specs

Next Step Treatments:

Acceptable Regen: Any combination of maple, basswood, birch, and/or oak that meet minimum stocking requirements.

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2025

49	72015049-Cut	238.3	4119 - Mixed Northern Hardwoods	Sawtimber Well	111	81-110	Harvest	Group Selection	4110 - Sugar Maple Association	Even-Aged	No
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Prescription Specs: Mark to thin stand to a target residual BA of 80. Establish regeneration gaps that are 1/2 acre to 2 acres in size. While thinning around crop trees that have large and vigorous crowns, release those crop tree crowns on all four sides.

Also consider operability when marking in areas with steep slopes. These gaps should occur at a 1 per 10 acres.

Target areas for gaps can include areas within stand that have high density of beech present.

Use slope protection spec.

Next Step Treatments: Monitoring, Artificial Regen(1yr); Monitoring, Natural Regen (Intermediate)

Acceptable Regen: Any combination of maple, basswood, birch, beech or oak that meets minimum stocking requirements.

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2025



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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
51 72015051-Cut	17.7	4131 - Aspen, Oak	Sawtimber Well	51	51-80	Harvest	Clearcut	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Clear cut with no retention due to small stand size and poor access. <u>Specs:</u> Grouse spec. <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Any combination of aspen, oak, maple and pine species, that meet minimum stocking requirements. <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2025</p>										
54 72015054-Cut	19.5	4111 - S.Maple, Hard Mast Association	Sawtimber Well	104	81-110	Harvest	Clearcut with Retention	4110 - Sugar Maple Association	Even-Aged	No
<p><u>Prescription</u> Clearcut with retention <u>Specs:</u> 3-10% <u>Next Step</u> Monitoring, Natural Regen (Intermediate) <u>Treatments:</u> <u>Acceptable</u> Any combination of maple, birch, beech, oak, basswood that meets minimum stocking requirements. <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2025</p>										
55 72015055-Cut	11.9	4139 - Aspen, Mixed Deciduous	Sawtimber Well	53	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Clearcut with retention <u>Specs:</u> 3-10 retention Use grouse spec <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Any combination of aspen, maple, beech, oak, and pine, that meet the minimum stocking requirements. <u>Regen:</u> <u>Other</u> May need survey request for east line, corners to be re-monumented. <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2025</p>										

Approved Treatments:

57 72015022-Monitor	31.8	4111 - S.Maple, Hard Mast Association	Sawtimber Medium	106	51-80	Monitoring	Natural Regen (Intermediate)	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> A diverse mix of northern hardwood species. <u>Regen:</u> <u>Other</u> Percent to Treat = 100% <u>Comment:</u></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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Site Condition

Proposed Start Date: 6 /1 /2018

46	72015046- Prep	68.5	310 - Herbaceous Openland	Nonstocked	0	Unspec ified	SitePrep	Roller Chopping	4191 - Mixed Upland Deciduous with Conifer	Even-Aged	No
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Prescription

Specs:

Next Step ; SitePrep, Trenching; Pesticide, Skidder - Site Prep; Pesticide, Aerial - Site Prep; Planting, Initial Plant; Monitoring, Artificial
Treatments: Regen(1yr); Pesticide, Skidder - Release; Pesticide, Aerial - Release; Monitoring, Artificial Regen(3yr)

Acceptable Regen: Acceptable regeneration is a mixture of the parent stand with a stocking level of moderate to fully stocked.

Other Comment:

Other Percent to Treat = 100%

Site Condition

Proposed Start Date: 10/1 /2025

25	NF_72015025- NonFor	5.9	3102 - Grass	Nonstocked			NonForestMgt	Other - Specify	310 - Herbaceous Openland		No
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Prescription Specs: Periodic opening maintenance, as needed, that may include disking, fertilizing, food plot seeding, no-till prairie grass drill seeding, mowing, brushing, burning and herbicide application.

Next Step

Treatments:

Acceptable Regen:

Other Comment:

Other Currently, access is gated by oil/gas company. Old next step comments: Continue wildlife opening maintenance.

Site Condition

Proposed Start Date: 10/1 /2025

29	NF_72015029- NonFor	32.3	3205 - Mixed Upland Shrub	Nonstocked		Unspec ified	NonForestMgt	Other - Specify	320 - Upland Shrub		No
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Prescription Specs: Periodic opening maintenance, as needed, that may include disking, fertilizing, food plot seeding, no-till prairie grass drill seeding, mowing, brushing, burning and herbicide application.

Next Step

Treatments:

Acceptable Regen:

Other Comment:

Other Old next step comments: monitor success of autumn olive removal and continue maintenance opening measures.

Site Condition

Proposed Start Date: 10/1 /2025



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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
30 NF_72015030-NonFor	10.4	3102 - Grass	Nonstocked			NonForestMgt	Other - Specify	3102 - Grass		No
<p><u>Prescription</u> Periodic opening maintenance, as needed, that may include disking, fertilizing, food plot seeding, no-till prairie grass drill seeding, mowing, brushing, burning and herbicide application.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> <u>Treatments:</u></p> <p><u>Acceptable</u> <u>Regen:</u></p> <p><u>Other</u> Old next step comments: Continue to maintain opening in a condition that is beneficial to wildlife. <u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>										
38 NF_72015038-NonFor	6.4	3102 - Grass	Nonstocked			NonForestMgt	Other - Specify	3102 - Grass		No
<p><u>Prescription</u> Periodic opening maintenance, as needed, that may include disking, fertilizing, food plot seeding, no-till prairie grass drill seeding, mowing, brushing, burning and herbicide application.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> <u>Treatments:</u></p> <p><u>Acceptable</u> <u>Regen:</u></p> <p><u>Other</u> Old next step comments: Continue to maintain opening in a condition that is beneficial to wildlife. <u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>										

Total Treatment 839.9
Acreage Proposed:

Report 4 – Site Conditions

Grayling Mgt. Unit
Cole Michaud : Examiner

Compartment: 15
Year of Entry: 2026

Availability for Management

Total Acres	Acres Available	Acres Avail		Acres Not Available	Dominant Site Conditions			
		With Condition			5C	3A	5E	
704	664	40		1	Aspen	40		1
12	12	0		0	Bare/Sparsely Vegetated			
112	112	0		0	Herbaceous Openland			0
5	5	0		0	Low-Density Trees			
8	0	0		8	Lowland Mixed Forest		8	
2	2	0		0	Lowland Shrub			
7	7	0		0	Marsh			
148	38	110		0	Mixed Upland Deciduous	110		0
61	61	0		0	Natural Mixed Pines			
851	851	0		0	Northern Hardwood			
15	1	5		9	Upland Mixed Forest	5		9
45	45	0		0	Upland Shrub			
4	4	0		0	Urban			
6	6	0		0	Water			
1,980	1,807	156		18	Total Forested Acres	156	8	10
	91%	8%		1%	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	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Retention to buffer wildlife openings as per wildlife's request.							
2	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Grayling Mgt. Unit
Cole Michaud : Examiner

Compartment: 15
Year of Entry: 2026

3	Unavailable	3A: Conservation Values incompatible with harvest at this time	8	5A: Not able to obtain desirable regeneration	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	5E: Long-Term Retention	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	57	Unspecified	Unspecified	Unspecified	Unspecified
Comments: See stand comments. No harvest at this time (inventory cycle FY26)							
6	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Long-term retention from Stand 5. Stand 5 was cut under contract 72-003-16 Mt Tom Mix. Sale cut in Spring/Summer 2019 & closed 08/06/2019.							
7	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Left for visual management.							
8	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	53	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Delay treatment. Reevaluate in next inventory cycle.							

Report 4 – Site Conditions

Grayling Mgt. Unit
Cole Michaud : Examiner

Compartment: 15
Year of Entry: 2026

9	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	40	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Delay treatment. reevaluate in next inventory cycle.							

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
ERA	Ecological Reference Areas	Ecological Reference Areas (ERAs) are high quality examples of natural communities that have been identified as Element Occurrences (EOs) by the Michigan Natural Features Inventory (MNFI) within the context of their natural community classification system. Element Occurrences with viability ranks of A (Excellent) or B (Good) and a Global (G) or State (S) element (rarity) ranking of endangered (1), threatened (2), or rare (3) serve as an initial base of ERAs. They may be located upon any ownership in the State. The system is comprised of individual or associations of natural community types that are managed for restoration and maintenance of natural ecological processes and values. The public may submit recommendations for lands as ERAs using the DNR Conservation Area Recommendation Form.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																																	
1	310 - Herbaceous Openland	Nonstocked	12.4	0	Unspecified		Old Comments: Stand cut under contract 72-003-16 Mt Tom Mix. Sale cut in Spring/Summer 2019 & closed 08/06/2019. Another open grown stand of poor form and quality trees. The entire stand is PARVHa/PArVVb.																																																																																	
2	3102 - Grass	Nonstocked	1.2		Immature		Merit Energy Well Site Permit# 53662 Clinton B2-19 The entire stand is PARVHa/PArVVb.																																																																																	
3	500 - Water	Nonstocked	6.1				Small woodland pond																																																																																	
4	4199 - Other Mixed Upland Deciduous	Sapling Well	7.4	16	Immature	N/A	Good mixed species stand. Old Comments: Young regenerating stand of Aspen and Red maple, few larger stems (3-4") were left of oak and r maple. Stand is looking good. Stand failed the regen survey for MO of jack pine, however, stand passes with mixed species, recommend accepting current regeneration.																																																																																	
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5	4130 - Aspen	Sapling Well	26.7	5	Immature	N/A	Old Comments: Stand cut under contract 72-003-16 Mt Tom Mix. Sale cut in Spring/Summer 2019 & closed 08/06/2019. Mature stand of aspen that could be harvested. Stand is on hill side that should be operational. The entire stand is PARVHa/PArVVb.																																																																																	
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6	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	57.1	112	81-110	N/A	Old Comments: Stand was harvested during the time of 2008-2010. Because of some unique features found in or adjacent to the stand there are small areas that were not treated, however, these areas are not large enough to be delineated out as individual stands. On the Northside of the small lake/pond Stand 3, there is a private gate roughly 40-60 on state land. There are also ORV/MCCT trails, pipelines and gas well in this stand as well. The stand is AFO, except the eastern 1/3 is PARVVb/AFO.																																																																																	
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10	6131 - Hemlock, White Pine, Maple, Birch	Sawtimber Well	8.1	112	81-110	N/A	Old Comments: Small hemlock on the north and east side slope leading to marsh. Hemlock looks healthy no dead tops or visible insect or fungus attacking the trees. Stand is surrounded by a northern hardwood stand. Very dark under the canopy very little ground cover some false ferns on edge. Stand was buffered from previous treatment of neighboring stands.																																																													
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11	6229 - Mixed lowland shrub	Nonstocked	1.9		Unspecified	No	Old Comments: Black ash, Flowing dogwood, and a few other wetland species. On the edge of a hemlock to west and aspen to the east. Stand is a Tawas Muck soil.																																																													
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12	3102 - Grass	Nonstocked	1.3				Merit Energy Well Site Permit# 53909 Clinton B4-19																																																													



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																																		
13	6230 - Cattail	Nonstocked	3.1			No	Very wet area with cattails and some standing water																																																																																		
14	4130 - Aspen	Poletimber Well	93.7	33	1-50	N/A	Some of hardwood species mixed in throughout stand. Old Comments: Young stand of aspen regenerating very well, high stem density with a nice mixture of species. Rolling to steep terrain, stand was harvest in 1990. The entire stand is PARVvb/AFO.																																																																																		
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15	4119 - Mixed Northern Hardwoods	Sawtimber Well	60.2	107	81-110	N/A	Old Comments: Stand was harvested in the winter of 2009. There is a small wet area that has been delineated out as well as an ephemeral stream running thru the stand. Dense subcanopy in areas with ash, striped maple, ironwood and raspberry. Typical ground cover associated with good hardwood stand is present. The entire stand is PARVvb/AFO. Site index 56.																																																																																		
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16	3102 - Grass	Nonstocked	1.0				Merit Energy Well Site Permit# 53912 Clinton A2-20 1-800-328-7430																																																																																		
17	6239 - Mixed Emergent Wetland	Nonstocked	2.2			No	Small wet area, some water, cattails, lady fern and a few bugs.																																																																																		



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18	4110 - Sugar Maple Association	Sawtimber Well	51.7	110	81-110	N/A	Old Comments: Rolling terrain, very nice site. More conifer component as you move south in stand. Fair amount of bigtooth in stand however, it was captured in the BA swings and large DBH. Ground cover ash, bass, trout lily, trillium etc. The stand is primarily PARVvb/AFO, there are pockets of AFO. Site index 65																																																																													
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19	4130 - Aspen	Poletimber Well	22.8	36	1-50	N/A	Good aspen stand. Old Comments: The stand is PARVvb/AFO, there is a small pocket of unclassified lowlands in the nw corner.																																																																													
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20	6230 - Cattail	Nonstocked	1.4			No	Small marsh area within a aspen stand with standing water, cattails, dogwood and ferns.																																																																													
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21	3102 - Grass	Nonstocked	1.0				Merit Energy Well Site Permit # 53685 Clinton D1-20 The entire stand is PARVvb/AFO.																																																																													
22	4111 - S.Maple, Hard Mast Association	Sawtimber Well	214.2	106	111-140	N/A	Old Comments: Stand thinned 1996 - 1998 and then an EAB salvage in 2010. Some areas were not cut due to steep slopes. Ground vegetation solomon seal, gold thread, trillium etc. Subcanopy heavy to beech and pockets heavy to ash, not a whole lot of hard maple in the sub canopy. Striped maple was also present. Rolling to steep terrain. This site was also part of the Oscoda County Timber Theft case. Ten BA swings were taken with a stand average of 79. Individual species were 49 for S Maple, 7 Basswood, 1 P Birch, 8 Beech, 11 Red Oak, 1 B Aspen. The stand is primarily PARVvb/AFO, there is a pocket of AFO in NE Corner. Still dominated by sugar maple. with basswood, birch, beech, and scattered oak, some ash regen present but all overstory ash is gone or are standing snags.																																																																													
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23	3102 - Grass	Nonstocked	1.0				Merit Energy gas well Permit #53910 Clinton O3-20																																																																													



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24	4130 - Aspen	Poletimber Well	46.0	36	1-50	N/A	Old Comments: Stand harvested in 1987, young aspen with some log sized stems, mixture of big and quaking aspen. Hilly terrain w/potholes. stand is on the sap/pole line going w/pole. too much snow for ground cover. The stand is half PARVVb/AFO and AFO.																																																			
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25	3102 - Grass	Nonstocked	5.9			Managed Opening	Open grassy area. The stand is mixture of PARVVb/AFO and AFO. JC update: Was brushed & mowed in 2015 and mowed in 2016 (W72-783).																																																			
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26	4130 - Aspen	Poletimber Well	14.0	35	1-50	N/A	Old Comments: Young aspen stand doing very well just at the edge of sapling/pole, enough pole sized stems to classify stand at pole but at the low end of the DBH range. Terrain is rolling to steep. There are areas of standing water along Cedar Run Rd which could be considered vernal ponds. A powerline also runs along the ridge of this stand. The entire stand is PARVVb/AFO.																																																			
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27	3102 - Grass	Nonstocked	2.2		Unspecified	No	Old Comments: Small opening with grass and bare soil. Has powerline corridor and grassy opening at top of hill. Right next to Bailey Rd looks like a turn around area. The entire stand is PARVVb/AFO.																																																			
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28	110 - Low Intensity Urban	Nonstocked	1.0			No	Bailey Road																																																			
29	3205 - Mixed Upland Shrub	Nonstocked	32.3		Unspecified	No	Upland opening not sure if it is a wildlife opening. Vegetative cover is grass and upland shrub (cherry) and mixed with conifer. Rolling terrain. The stand is primarily PARVVb/AFO. JC update: Was brushed in 2015 (focus on Autumn olive) and mowed in 2016 (W72-783).																																																			
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30	3102 - Grass	Nonstocked	10.4			No	Grass opening with scattered trees. The entire stand is PARVHa/PARVVb.																																																			
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
31	4110 - Sugar Maple Association	Sawtimber Well	14.2	96	51-80	N/A	Old Comments: Thinned in summer of 2020 (72-001-16) to a target of 80sqft/acre. Nice site good diversity, old OI notes indicated that all aspen was removed from stand in 1971. There are some pole sized ash still living but vast majority have died. Beech in the stand looks to be free of BBD. Ground cover was grass, ash, maple and ironwood regen. Four BA swings were taken with stand average of 114, individual BA's are 82 sugar maple, 2 aspen, 20 basswood, 10 red oak. The stand is PArVHa/PArVVb and AFO.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Bigtooth Aspen		2	XLog/Log	18		Sugar Maple		Medium	Variable	Sapling
Sugar Maple		69	Log/Pole/Sap	10	96	Basswood		Medium	Variable	Sapling
Basswood		17	Log/Pole	10		White Ash		Medium	Variable	Sapling
Beech		2	Log	14		Ironwood		High	Variable	Sapling
Red Oak		8	XLog/Log	20		Oak (spp.)		Low	Variable	Sapling
White Ash		2	Pole	6						
32	4130 - Aspen	Poletimber Well	60.8	35	1-50	N/A	Old Comments: Young aspen stand doing very well, small end of pole size right on fence of either pole or sapling. Rolling to steep terrain. The entire stand is PArVHa/PArVVb.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Pine		5	Sapling/Pole	4		Sugar Maple		Low	Variable	Sapling
Black/Red (Hybrid) Oak		5	Sapling	3		Red Maple		Medium	Variable	Sapling
Bigtooth Aspen		85	Pole/Sapling	5	35	Oak (spp.)		Low	Variable	Sapling
Red Maple		5	Sapling	3		Serviceberry (Juneberry)		Medium	Variable	Sapling
						Birch (spp.)		Low	Variable	Sapling
						White Ash		Low	Variable	Sapling
33	4130 - Aspen	Poletimber Well	12.0	35	1-50	N/A	Old Comments: Nice stand of sapling to pole size stems, high enough percentage of poles to call overall size pole. Ground cover was trillium, lily of the valley, dutchman britches, etc. Entire stand is PArVHa/PArVVb.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
White Ash		2	Pole/Sapling	5		Beech		Medium	Variable	Sapling
Paper Birch		2	Pole/Sapling	5		Birch (spp.)		Medium	Variable	Sapling
Bigtooth Aspen		94	Pole/Sapling	5	35	White Ash		Medium	Variable	Sapling
Red Maple		2	Pole/Sapling	5						
34	4139 - Aspen, Mixed Deciduous	Poletimber Well	40.2	52	51-80	N/A	Old Comments: Stand has a well developed advance regen layer of mixed hardwood species, nice looking pole stand. Scattered Red Oak of log size left from previous treatment. Not much for ground cover what was present was sugar maple, basswood seedlings under bracken fern. There is a small grassy opening in valley west of powerline. Stand has a powerline running thru the stand. Rolling to steep terrain. The stand is PArVHa/PArVVb and AFO.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Basswood		10	Pole/Log	9		Ironwood		Low	Variable	Sapling
Red Oak		10	Log/XLog	16		White Ash		High	Variable	Sapling
Beech		10	Pole/Log	9		Serviceberry (Juneberry)		Low	Variable	Sapling
Paper Birch		2	Pole	8		Red Maple		Medium	Variable	Sapling
Bigtooth Aspen		35	Pole/Log	8	52	Sugar Maple		Medium	Variable	Sapling
Red Maple		8	Pole	7		Oak (spp.)		Medium	Variable	Sapling
Quaking Aspen		15	Pole/Sapling	7						
Sugar Maple		10	Pole/Log	9						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																							
35	3301 - Low Density Deciduous Trees	Nonstocked	5.3			No	Open area with a small wet area in the middle this area is marginal as whether to be non forested or forested, certainly not merchant able and majority of area is covered the shrubbery.																																							
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36	4110 - Sugar Maple Association	Sawtimber Well	29.6	107	51-80	N/A	Old Comments: Stand thinned in 2020 (72-001-16). Rx was to remove aspen, ash and beech and then thin down to 70sqft/acre. Small hardwood stand of decent quality and species diversity. Buts up against private land with rolling terrain. Beech in this stand does not show signs of BBD, however, over half the white ash in the stand were dead, primarily stems in the co dominant canopy position. Regeneration layer was fairly heavy to beech with sugar maple. Ground cover was trillium, trout lily, D Britches etc. Four BA swings were taken and stand average was roughly 130, BA for individual species recorded were Sugar maple 57, B Aspen 33, Beech 28 and ash 2. Entire stand is PARVHA/PARVVb and site index was 52.																																							
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37	4199 - Other Mixed Upland Deciduous	Sawtimber Poor	53.0	102	1-50	N/A	Old Comments: Featuring the overstory trees that were left from the previous treatment in 1999, BA roughly 30. Sub Canopy heavy in areas of aspen and maple. Sub Canopy is well developed and would allow canopy to continue to up thru the residual trees. Ground cover maple, oak, some ironwood. Five BA swings were taken with stand average at 32. Individual species 16 oak, 8 beech, 2 sugar maple, and 6 basswood. Stand is PARVHa/PARVVb.																																							
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38	3102 - Grass	Nonstocked	6.4			No	Appears to be a wildlife opening. The entire stand is PARVHa/PARVVb. JC update: Was planted to buckwheat & clover in 2015 and rye planted in 2016 (W72-783).																																							
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39	110 - Low Intensity Urban	Nonstocked	2.5				Bailey Road																																							
40	4111 - S.Maple, Hard Mast Association	Sawtimber Well	183.0	108	111-140	N/A	Old Comments: Stand was treated between 2008 and 2010 under contract number 72-045-06-01. Stand has scattered residual tops from sale as it was not chipped. Understory is heavy to beech and ash with very little sugar maple. Striped maple is heavy in areas as well. Ground cover is the usual hardwood variety of trillium, trout lily etc. Rolling to very steep with a few open areas. There is evidence of illegal cutting of ash along stand perimeter there is also a 55 gallon barrel leaking a tar substance out. The stand is a mixture of PARVVb/AFO, AFO, and PARVHa/PARVVb. Site Index of 55.																																							
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments				
41	4111 - S.Maple, Hard Mast Association	Sawtimber Well	8.2	108	81-110	N/A	Old Comments: Stand very similar to stand 35 just not as high of a BA. Beech looks to be BBD free while larger ash stems were dead or dying. Pole size ash still holding their own. There was a wet area holding water and could be treated as a vernal pond. Ground cover is similar to other stands in this area, trillium, trout lily and so on. Stand is AFO and site index is 57.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Basswood		2	Log/Pole	12		Birch (spp.)		Low	Variable	Sapling	
White Ash		2	Log/Pole	11		Serviceberry (Juneberry)		Medium	Variable	Sapling	
Beech		32	Log	16		Sugar Maple		Low	Variable	Sapling	
Bigtooth Aspen		4	Log	14		Beech		Medium	Variable	Sapling	
Sugar Maple		60	Log/Pole	11	108	Hawthorn (spp.)		Low	Variable	Tall Shrub	
42	4130 - Aspen	Poletimber Well	21.6	35	51-80	N/A	Old Comments: Nice stand of sapling to pole size stems, high enough percentage of poles to call overall size pole. Ground cover was trillium, lily of the valley, dutchman britches, etc. Entire stand is AFO.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Paper Birch		2	Sapling/Pole	4		Birch (spp.)		Low	Variable	Sapling	
Bigtooth Aspen		96	Pole/Sapling	5	35	Sugar Maple		Low	Variable	Sapling	
White Ash		2	Sapling/Pole	4		Beech		Low	Variable	Sapling	
						Hawthorn (spp.)		Low	Variable	Tall Shrub	
43	4130 - Aspen	Sapling Well	36.0	25	1-50	N/A	Old Comments: Stand was harvested in 1998 and is coming back very dense with good regeneration. Rolling to steep terrain with powerline running thru the stand. The stand is PARVHa/PARVVb and AFO.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
White Pine		2	Log	12		Cherry (spp.)		Low	Variable	Sapling	
Bigtooth Aspen		92	Sapling	3	25	Oak (spp.)		Low	Variable	Sapling	
Red Pine		1	Log	14		Red Maple		Low	Variable	Sapling	
Red Maple		3	Sapling	3		Beech		Low	Variable	Sapling	
Red Oak		2	Sapling	3							
44	4130 - Aspen	Poletimber Well	123.6	35	1-50	N/A	Old Comments: Fairly young stand just entering the pole size category. Appears to be an old railroad grade in this stand, also rolling to steep terrain. There are a few small grassy openings in this stand that were not separated out. Stand harvested in 1988. The entire stand is PARVHa/PARVVb.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Maple		4	Sapling/Pole	4		White Pine		Low	< 5 feet	Sapling	
Jack Pine		3	Sapling/Pole	4		Cherry (spp.)		Low	< 5 feet	Sapling	
Quaking Aspen		90	Pole/Sapling	5	35	Jack Pine		Low	< 5 feet	Sapling	
Northern Pin Oak		3	Sapling	3		Red Maple		Low	< 5 feet	Sapling	
						Oak (spp.)		Low	< 5 feet	Sapling	
45	790 - Other Bare/Sparsely Vegetated	Nonstocked	12.2			No	This used to be the old Bailey Gravel Pit, area has very little vegetation with exposed sand and rock, waste land that has alot of wood debris dumped along the perimeter, Good place for decking wood when treating adjacent stands.				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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46	310 - Herbaceous Openland	Nonstocked	68.5	0	Unspecified	No	Stand was harvested in summer of 2020 (72-001-16). Exped mixed upland deciduous with conifer, monitor natural regen at re-inventory. Mixed stand with pockets of pure red and white pine. Aspen and jack pine not looking real good, aspen has cankers and jack pine dying off. Other stands in immediate area have been treated by removing all species except pole to small log size red and white pine, regenerating back as mixed hardwood species. Portion of stand west of Cedar Run Rd should be left as retention. Eight BA swings were taken with a BA of roughly 99, individual species were 18 oak, 26 white pine, 18 red pine, 15 jack pine, 16 aspen, 6 red maple. West half of stand is AFO, East half is PARVHa/PArVVb.
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47	42290 - Natural Mixed Pine	Sawtimber Medium	60.5	85	51-80	N/A	Old OI Stand 35 passes the regen survey with very good hardwood regen of mixed species. Recommend accepting current regeneration in this old oi stand. Pockets of oak regen along with white pine. Portion of stand east of rd less regeneration with a little bit higher BA. Old OI stand 36 Aspen regeneration survey fails, but passes when combined with all other species. Good natural red and white pine regen in areas. Stand was treated in 1998 and 2008, first harvest left all red and white pine second harvest targeted 16"+ pine trees. Six BA swings were taken for this stand with a stand average of 60, BA for individual species are red pine 20, white pine 37 and red maple 3. Stand is split AFO west of Cedar Run Rd and PARVVb east of rd.
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Canopy Species					% Cover	Size Class	DBH	Age	Sub-Canopy Species				Density	Avg. Height	Size
Red Maple		3	Log/Pole	11					Beech		Medium	Variable	Sapling		
Red Pine		43	Log/Pole/XLog	14	106				Red Pine		Low	Variable	Sapling		
Red Oak		2	Log	14					White Ash		Medium	Variable	Sapling		
White Pine		52	Log/Pole/XLog	14	85				Serviceberry (Juneberry)		Medium	Variable	Sapling		
									Aspen (spp.)		Medium	Variable	Sapling		
									Red Maple		Medium	Variable	Sapling		
									Oak (spp.)		Low	Variable	Sapling		
									Sugar Maple		Medium	Variable	Sapling		
									Cherry (spp.)		Medium	Variable	Sapling		
									White Pine		Medium	Variable	Sapling		

48	3205 - Mixed Upland Shrub	Nonstocked	3.3			No	Old county landfill reclaimed with grassy opening, knapweed and some deciduous shrubs mixed in.
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49	4119 - Mixed Northern Hardwoods	Sawtimber Well	238.3	111	81-110	N/A	Most of the beech has BBD, even sapling size trees. Old Comments: Portion of the stand was treated between 2008 and 2010. Rolling to steep terrain with some slopes being inoperable especially on the western side of stand. Good site, however, beech is taking over from last treatment, understory/subcanopy is almost all beech, very little maple in sub or ground cover. BBD in the western portion of stand on pole size and up, not present on east side. Some girdled snags still standing. As with all the hardwood stands in this compartment 99% of all ash is dead. Ground cover (sarsapilla, beech, white ash, ironwood, did find some sweet cicely) overall little ground cover. Stand is PARVHa/PArVVb. Site index 55
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Canopy Species					% Cover	Size Class	DBH	Age	Sub-Canopy Species				Density	Avg. Height	Size
Paper Birch		2	Log/Pole	11					Beech		Full	Variable	Sapling		
Beech		32	Log/Pole	12	111				Ironwood		Medium	Variable	Sapling		
Basswood		18	Log	14					Autumn Olive		Low	Variable	Tall Shrub		
Red Pine		2	Pole/Log	8					Sugar Maple		Low	Variable	Sapling		
Sugar Maple		32	Log/Pole/XLog	12	111				Striped Maple		Medium	Variable	Sapling		
Bigtooth Aspen		5	Log	13					White Ash		Medium	Variable	Sapling		
Red Oak		7	Log	14											
Ironwood		2	Pole/Sapling	6											



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
50	4139 - Aspen, Mixed Deciduous	Sapling Well	8.1	25	1-50	N/A	There are scattered pole/log sized trees within this stand however, the featured stand size is the sapling size. This stand appears to have been impacted by the tornado that swept thru this area back in 1998. Local trash collection site is located in the NW corner, fenced off. Stand was listed as non-forested upland last year of entry. Entire stand is PARVHa/PArVVb.	
Canopy Species		% Cover	Size Class	DBH	Age			
Jack Pine		2	Pole/Log	9				
Jack Pine		10	Sapling	3				
Black Cherry		30	Sapling	3				
Quaking Aspen		35	Sapling	3	25			
Northern Pin Oak		2	Pole/Log	9				
Quaking Aspen		6	Pole/Log	9				
Northern Pin Oak		15	Sapling	3				
51	4131 - Aspen, Oak	Sawtimber Well	17.7	51	51-80	N/A	This area received damage from the 1998 tornado, however, damage was not as great as the area to the north. Surviving stems must of been in the pole size category at the time of the storm. Stand just entering log size. Understory is well established and dense from the storm. Site has heavy slash as a result from the storm. This is a nice site. Site index around 56.	
Canopy Species		% Cover	Size Class	DBH	Age			
Red Pine		2	Log/Pole	11				
Red Oak		20	Pole/Log	8				
Beech		10	Log/Pole	12				
Red Maple		7	Sapling/Pole	4				
Bigtooth Aspen		40	Pole/Log	9	51			
White Pine		3	Log/Pole	11				
Sugar Maple		15	Log/Pole	11				
Paper Birch		3	Pole	6				
Sub-Canopy Species		Density	Avg. Height	Size				
Oak (spp.)		Low	Variable	Sapling				
White Ash		Medium	Variable	Sapling				
Ironwood		Medium	Variable	Sapling				
Autumn Olive		Medium	Variable	Tall Shrub				
Sugar Maple		Low	Variable	Sapling				
52	4139 - Aspen, Mixed Deciduous	Poletimber Well	31.8	25	1-50	N/A	Regenerating from damage from tornado in 1998. Mixture of Red maple and aspen with some oak. Heavy slash from storm damage. Appears to be an old RR grade running thru the stand as well. Little to no understory. Stand is half PARVHa and PArVVb.	
Canopy Species		% Cover	Size Class	DBH	Age			
Red Maple		33	Pole/Sapling	5	25			
Bigtooth Aspen		50	Pole/Sapling	5	25			
Black/Red (Hybrid) Oak		15	Sapling/Pole	4				
Balsam Fir		2	Sapling/Pole	3				
53	4130 - Aspen	Sapling Well	58.3	36	1-50	N/A	Old Comments: Stand is on the border of pole, however, going to keep this stand in the sapling size. Steep terrain on the western edge of stand, mixture of aspen both Bigtooth and quaking. The entire stand is PARVHa/PArVVb.	
Canopy Species		% Cover	Size Class	DBH	Age			
Black/Red (Hybrid) Oak		3	Sapling	3				
Red Maple		5	Sapling	4				
Beech		2	Sapling	3				
Bigtooth Aspen		60	Sapling/Pole	4	36			
Quaking Aspen		30	Sapling/Pole	4				
Sub-Canopy Species		Density	Avg. Height	Size				
Oak (spp.)		Low	< 5 feet	Sapling				
Red Maple		Medium	Variable	Sapling				
Beech		Low	< 5 feet	Sapling				
Deciduous Shrubs		Medium	< 5 feet	Tall Shrub				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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54	4111 - S.Maple, Hard Mast Association	Sawtimber Well	19.5	104	81-110	N/A	Nice northern hardwood stand good site, there is a fair amount of autumn olive in the stand. Rolling to steep terrian. Very little maple is coming back in the sub-canopy. Three BA swings were taken with a stand average of 90 and individual BA's 53 for sugar maple, 17 for basswood, and 20 for beech. Stand is half AFO and PARVHa/PArVVb. Site index of 56.
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Canopy Species	% Cover	Size Class	DBH	Age
Black/Red (Hybrid) Oak	2	Log/Pole	12	
Beech	22	Pole/Log	9	
Paper Birch	2	Pole	8	
Sugar Maple	55	Log/Pole	11	104
Bigtooth Aspen	2	Log/Pole	12	
Basswood	15	Log	16	
White Ash	2	Pole	8	

Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	Low	Variable	Sapling
White Ash	Medium	Variable	Sapling
Striped Maple	Low	Variable	Sapling
Ironwood	High	Variable	Sapling
Autumn Olive	Medium	5 - 10 feet	Tall Shrub
Beech	High	Variable	Sapling

55	4139 - Aspen, Mixed Deciduous	Sawtimber Well	11.9	53	81-110	N/A	Stand is just entering the log size, good mixture of large pole small sawlogs. Rolling to steep slope and litter better quality of stems on eastern side of stand. Decent amount of pole sized ash that is struggling to survive. Good regen of ash, also high numbers of beech and ironwood regen. Stand is PARVHa/PArVVb.
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Canopy Species	% Cover	Size Class	DBH	Age
Bigtooth Aspen	53	Log/Pole	10	53
Paper Birch	10	Pole/Log	9	
Sugar Maple	10	Pole/Log	8	
Beech	25	Log/Pole	11	
Red Pine	2	Log	13	

Sub-Canopy Species	Density	Avg. Height	Size
White Ash	Medium	Variable	Sapling
Ironwood	High	Variable	Sapling
Beech	High	Variable	Sapling
Sugar Maple	Low	Variable	Sapling

56	3205 - Mixed Upland Shrub	Nonstocked	9.5	0	Unspecified	No	Old Comments: This area is mostly open grass/sedge with various pine barren species scattered throughout. Contains scattered pockets of cherry, aspen, JP. Most merchantable aspen and jack pine were harvested from stand when adj stand 3 in compt 15 was harvested in 2008 under sale no. 72-029-06-01 entitled Jack and Tom Sale. The harvest targeted taking merchantable timber and protected grassy open areas. Some areas have started to fill in with Immature aspen that is mostly 1" or less in diameter. The following species were noted in grassy area: mondara, swet fern, pennsylvania sedge, bluestem, and some knapweek along trail. No need to perform any specific mgt except monitor knapweed.
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57	4111 - S.Maple, Hard Mast Association	Sawtimber Medium	31.8	106	51-80	N/A	Stand thinned 1996 - 1998 and then an EAB salvage in 2010. Some areas were not cut due to steep slopes. Ground vegetation solomon seal, gold thread, trillium etc. Subcanopy heavy to beech and pockets heavy to ash, not a whole lot of hard maple in the sub canopy. Striped maple was also present. Rolling to steep terrain. This site was also part of the Oscoda County Timber Theft case. Ten BA swings were taken with a stand average of 79. Individual species were 49 for S Maple, 7 Basswood, 1 P Birch, 8 Beech, 11 Red Oak, 1 B Aspen. The stand is primarily PARVVb/AFO, there is a pocket of AFO in NE Corner.
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Canopy Species	% Cover	Size Class	DBH	Age
Basswood	11	Log/XLog	16	
Beech	10	XLog/Log	18	
Bigtooth Aspen	2	XLog/Log	20	
Red Oak	14	XLog/Log	20	
Paper Birch	2	Log/Pole	10	
Sugar Maple	61	Log/Pole/XLog	12	106

Sub-Canopy Species	Density	Avg. Height	Size
White Ash	High	Variable	Sapling
Beech	High	Variable	Sapling
Birch (spp.)	Medium	Variable	Sapling
Sugar Maple	Low	Variable	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
58	4310 - Pine, Oak Mix	Sawtimber Well	15.1	86	81-110	N/A	Portion of stand 46 that was left for long Term retention and age/size class diversity (72-001-16).Mixed stand with pockets of pure red and white pine. Aspen and jack pine not looking real good, aspen has cankers and jack pine dying off. Other stands in immediate area have been treated by removing all species except pole to small log size red and white pine, regenerating back as mixed hardwood species. Portion of stand west of Cedar Run Rd should be left as retention. Eight BA swings were taken with a BA of roughly 99, individual species were 18 oak, 26 white pine, 18 red pine, 15 jack pine, 16 aspen, 6 red maple. West half of stand is AFO, East half is PArVHa/PArVVb.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
White Pine	26	Log/Pole	11	86	Oak (spp.)	Medium		Variable	Sapling
Quaking Aspen	16	Log/Pole	10		Aspen (spp.)	Medium		Variable	Sapling
Jack Pine	15	Pole/Log	9		White Pine	Medium		Variable	Sapling
Red Maple	7	Log/Pole	10		Red Pine	Low		Variable	Sapling
Red Oak	18	Log/Pole/XLog	14	102	Red Maple	Medium		Variable	Sapling
Red Pine	18	Log/Pole	11		Jack Pine	Low		Variable	Sapling
59	4131 - Aspen, Oak	Sawtimber Well	3.0	54	51-80	N/A		Old Comments: Mature stand of aspen that could be harvested. Stand is on hill side that should be operational. The entire stand is PArVHa/PArVVb.	
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density			Avg. Height
Red Maple	5	Pole/Log	8		Hawthorn (spp.)	Low	Variable		Tall Shrub
Quaking Aspen	30	Pole/Log	9		Cherry (spp.)	Low	Variable		Sapling
Bigtooth Aspen	35	Log/Pole	10	54	Serviceberry (Juneberry)	Low	Variable		Tall Shrub
Black/Red (Hybrid) Oak	30	Log	16		Red Maple	Low	Variable		Sapling
60	4131 - Aspen, Oak	Sawtimber Well	0.6	54	81-110	N/A	Old Comments: Mature stand of aspen that could be harvested. Stand is on hill side that should be operational. The entire stand is PArVHa/PArVVb.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Maple	10	Pole/Log	8		Red Maple	Low		Variable	Sapling
Quaking Aspen	30	Pole/Log	9		Serviceberry (Juneberry)	Low		Variable	Tall Shrub
Black/Red (Hybrid) Oak	25	Log	16		Cherry (spp.)	Low		Variable	Sapling
Bigtooth Aspen	35	Log/Pole	10	54	Hawthorn (spp.)	Low		Variable	Tall Shrub