



Compartment Review Presentation

Grayling Forest Management Unit

Compartment 72068

Entry Year 2023

Acreage: 2,297

County Iosco

Management Area: Wurtsmith

Revision Date: 2021-03-24

Stand Examiner: Scott McClarren

Legal Description:

Oscoda Township, T24N R08E sections 16, 17, 18, 19, 20, 21

Identified Planning Goals:

To maintain forest health, productivity, sustainability, species diversification, and structural diversity throughout while providing multiple use and visual management.

Soil and topography:

The compartment is flat north of Bissonette Road. South of the road there is a steep slope and the cover types transition into lowland. Soils are primarily Grayling sands in the upland and Lupton muck in the lowland.

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

The state owned land in this area shares several property lines with the U.S. Forest Service. There are private subdivisions found in section 20. Multiple private parcels can be found in the east half of section 16.

Unique Natural Features:

Michigan Natural Features Inventory reports that there is excellent potential for Kirtland's warbler, prairie warbler, and grasshopper sparrow. Secretive locust may be found in jack pine. Potential for dusted skipper, grizzled skipper, Henry's elfin and red-legged spittlebug could occur in grassy openings and young jack pine and oak. There is slight potential for red-shouldered hawk and goshawk. This compartment shows excellent potential for eastern massasauga at the borders of conifer swamps and adjacent uplands. Some plant species that may occur are rough fescue, pale agoseris, Hill's thistle, and Alleghany plum in pine barrens/dry sand prairie. Potential for calypso orchid, Limestone oak fern, round-leaved orchids, and ram's head lady-slipper in conifer swamps.

The AuSable River Foote Basin flooding is located .5 to 1 mile south of this compartment.

Archeological, Historical, and Cultural Features:

There is potential for such features to exist.

Special Management Designations or Considerations:

None at this time.

Watershed and Fisheries Considerations:

None at this time.

Wildlife Habitat Considerations:

Promote the expansion of aspen and oak cover types. Protect mast producing shrubs whenever possible. Efforts should be made to enhance dead and down woody debris and standing snags.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of lacustrine (lake) sand and gravel. The glacial drift thickness varies between 400 and 600 feet. Beneath the glacial drift is the Coldwater Shale. There is not an economic use for the Coldwater Shale. The nearest gravel pit is three and one-half miles to the west, and gravel potential is thought to be limited. This compartment is not leased for oil and gas development. Several Antrim Shale test wells were drilled and abandoned north of this area, but gas production was very limited.

Vehicle Access:

The entire compartment is easily accessed by county roads, forest roads, and ORV routes. Roads created for management activities should be blocked once management is complete. There is a Director's Order restricting wheeled vehicle traffic along the power line paralleling Wilber Road.

Survey Needs:

Property line around the sub-division north of Bissonette Rd may need to be surveyed in the future.

Recreational Facilities and Opportunities:

Designated recreation includes dual use snowmobile trail 96 and ORV route, along with Old State House 50" ORV trail. Other recreation opportunities include hunting, gathering and wildlife viewing.

Fire Protection:

There is potential for extreme fire behavior in this area. There are large areas of dense young jack pine found within and around the compartment. Access in this area is not of major concern. The multiple roads and trails provide fuel breaks. The growing private interface in this area increases the likeliness of a fire event.

Additional Compartment Information:

The following reports from the Inventory are attached:

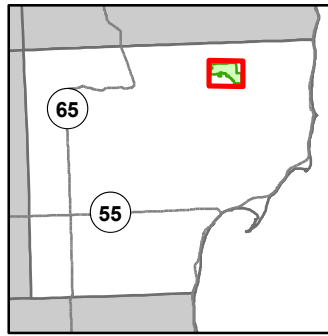
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

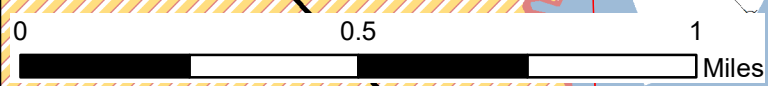
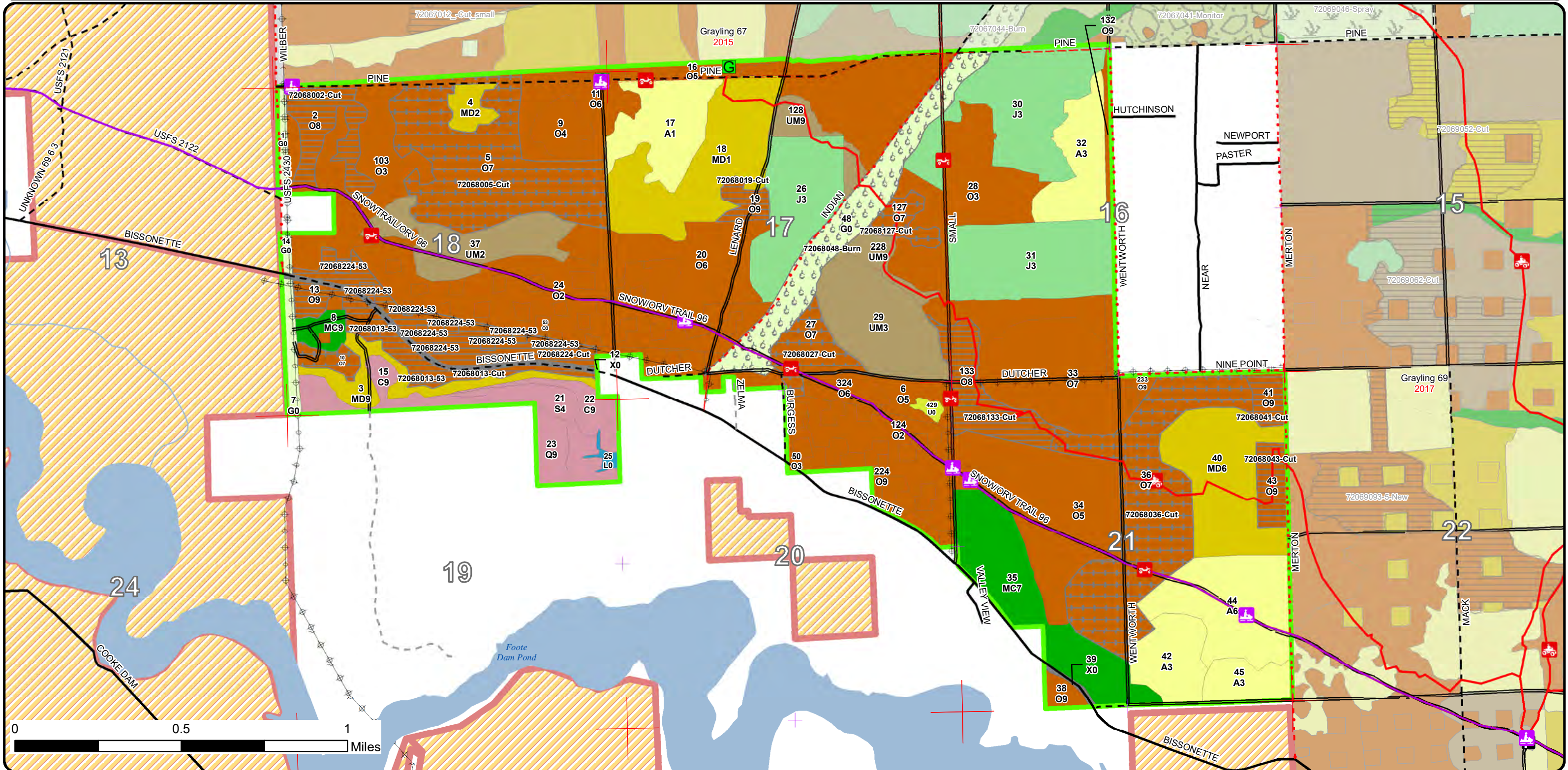
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 68
 T24N, R08E, Sec. 16-18, 19-21
 County: Iosco
 Unit: Grayling
 Mgmt Area: Wurtsmith
 YOE: 2023
 Acres: 2296.7 GIS Calculated
 Examiner: Scott McClarren
 Map Revised: 9/1/2021
 Map Phase: Review

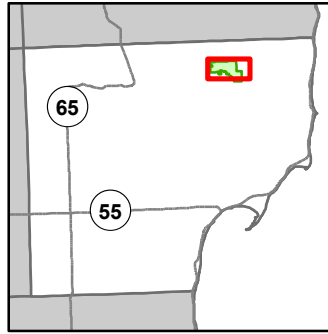


- Miris Corners
- Remonumented Section Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- ORV Trails
- ORV Routes
- Snowmobile Trails
- Designated ATV
- Designated ORV Route
- Designated Snowmobile Trails
- Gate
- Intermittent Stream
- Lake/Pond
- Lakes and Rivers
- Powerline
- Compartment Boundary
- Clearcut (w/Reserves)
- Harvest, Overstory Removal
- Prescribed Burn
- 412 - Oak Types
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 430 - Upland Mixed Forest
- 612 - Lowland Coniferous Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 629 - Mixed Non-forested Wetland

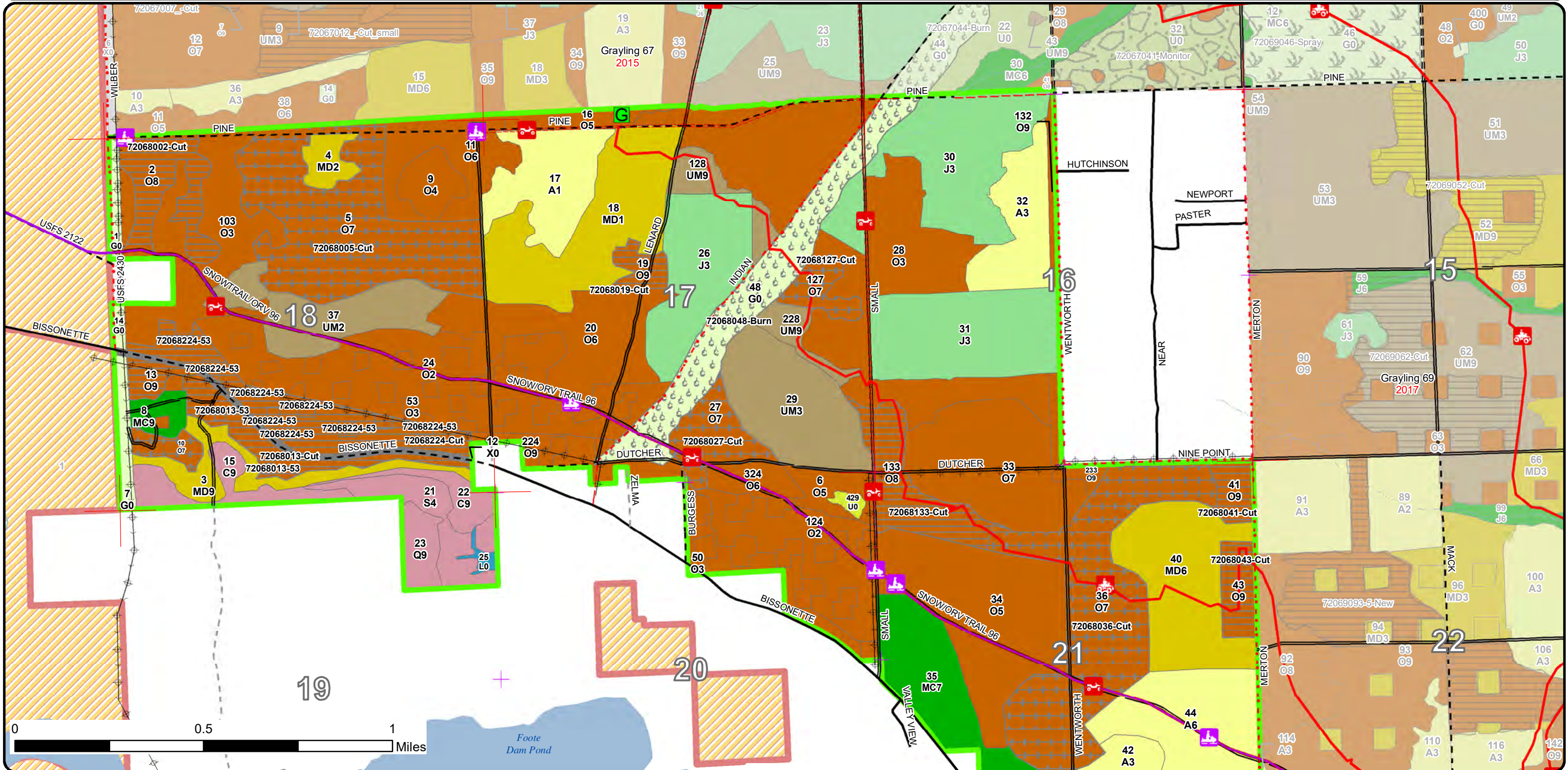


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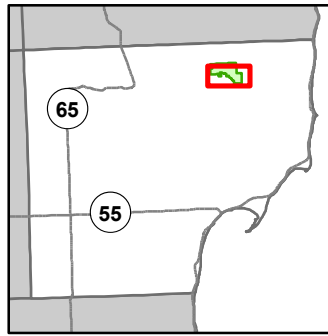


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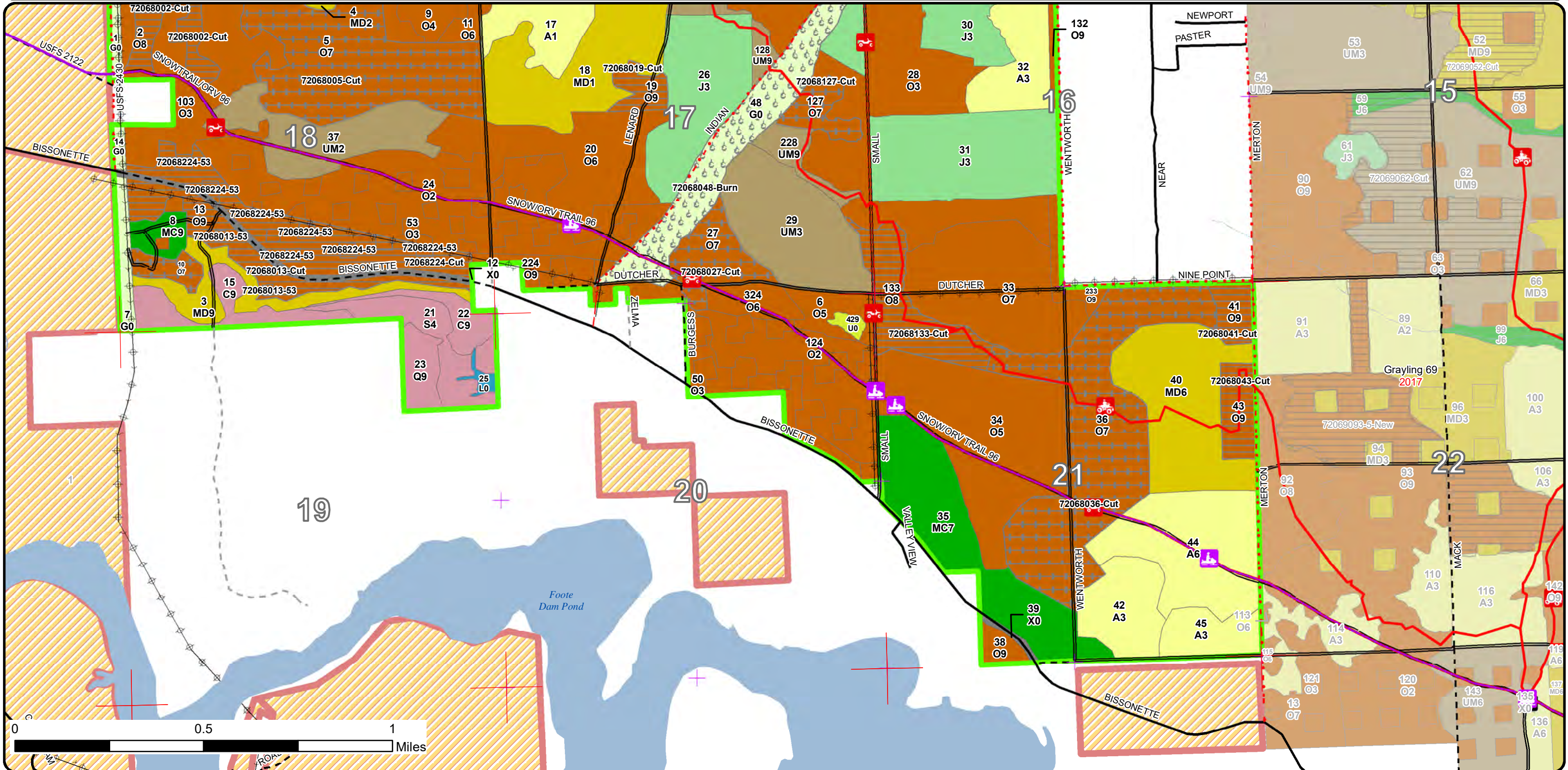


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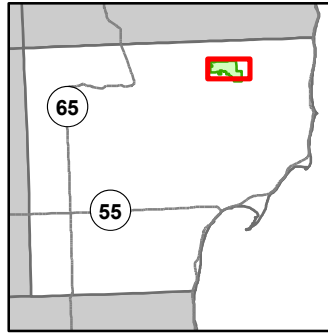


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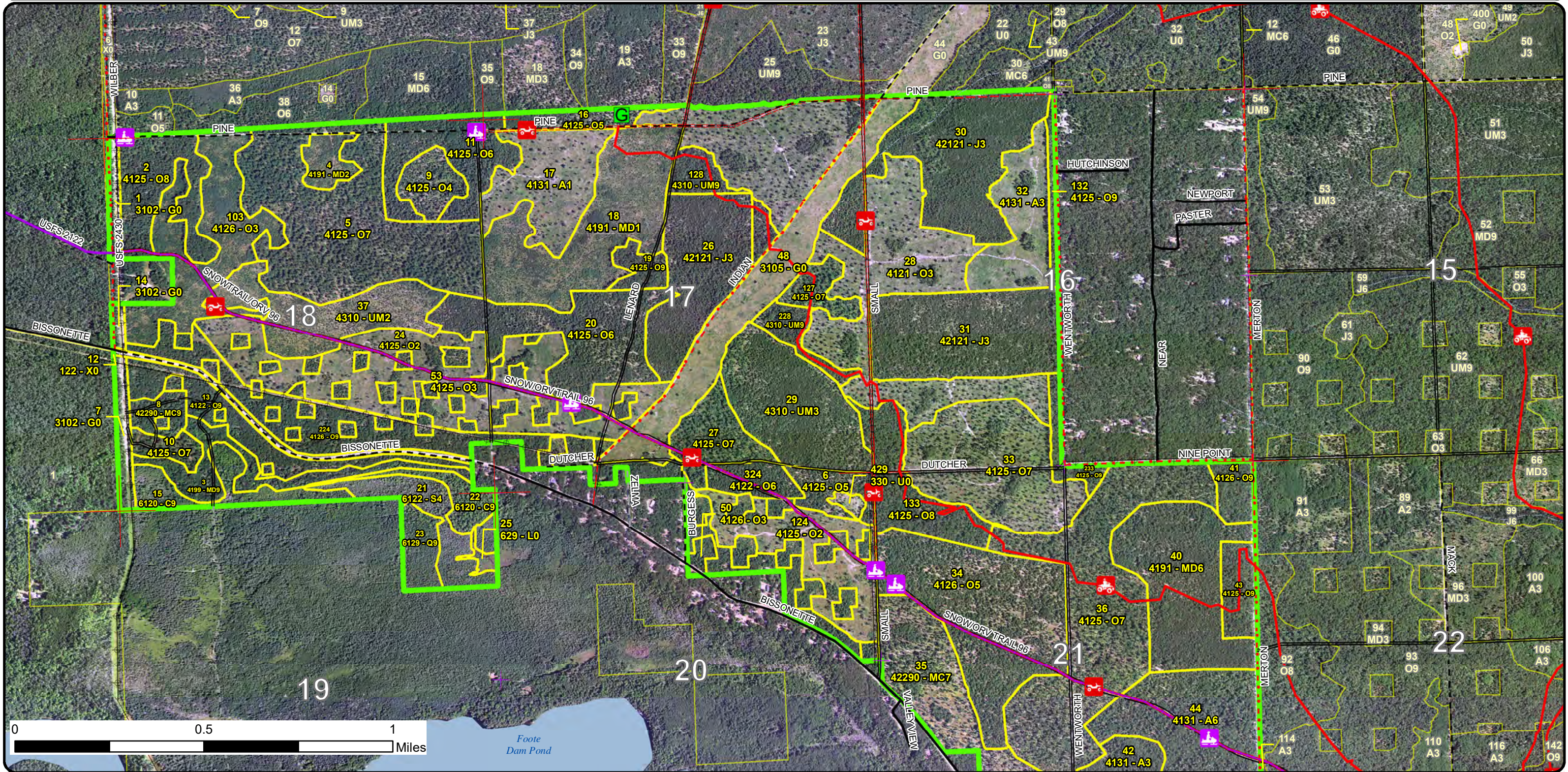


Stand Boundary Map

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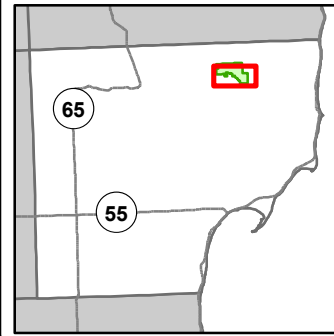


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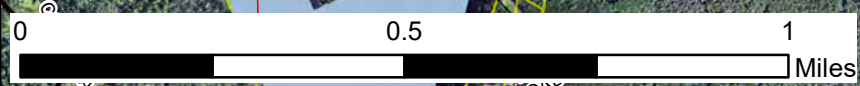
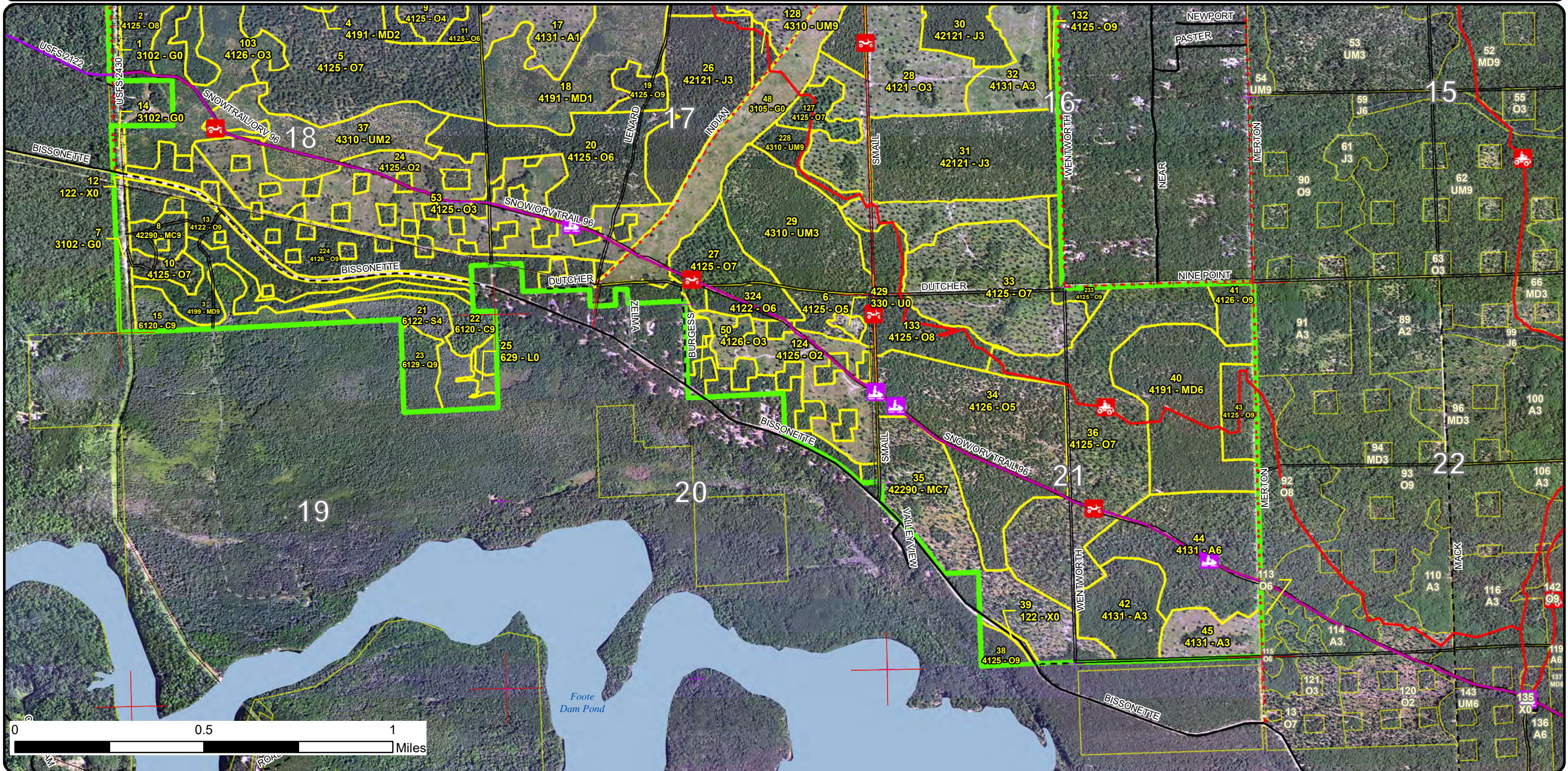


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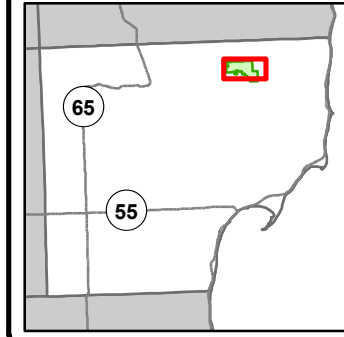


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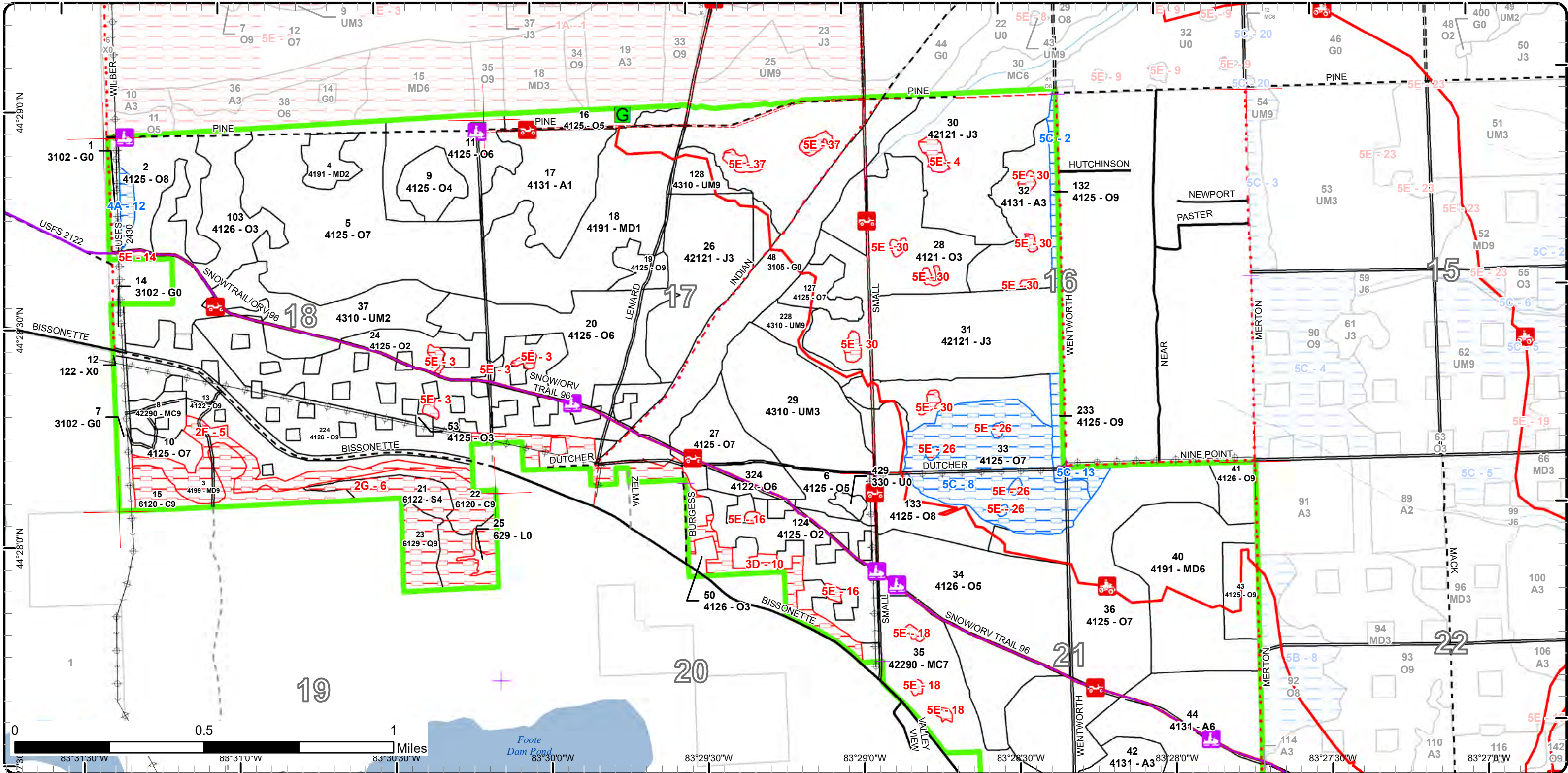


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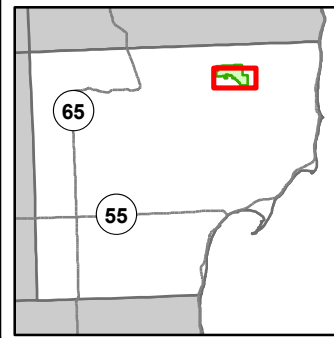


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- Available w/ Constraints
- 4A: No Markets Available for these Forest Products
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Unavailable
- 2F: Too steep
- 2G: Too wet (sensitive soils, does not include access issues)
- 3D: Recreational / Scenic values
- 5E: Long-Term Retention
- Stand Boundaries
- Cold Water Streams

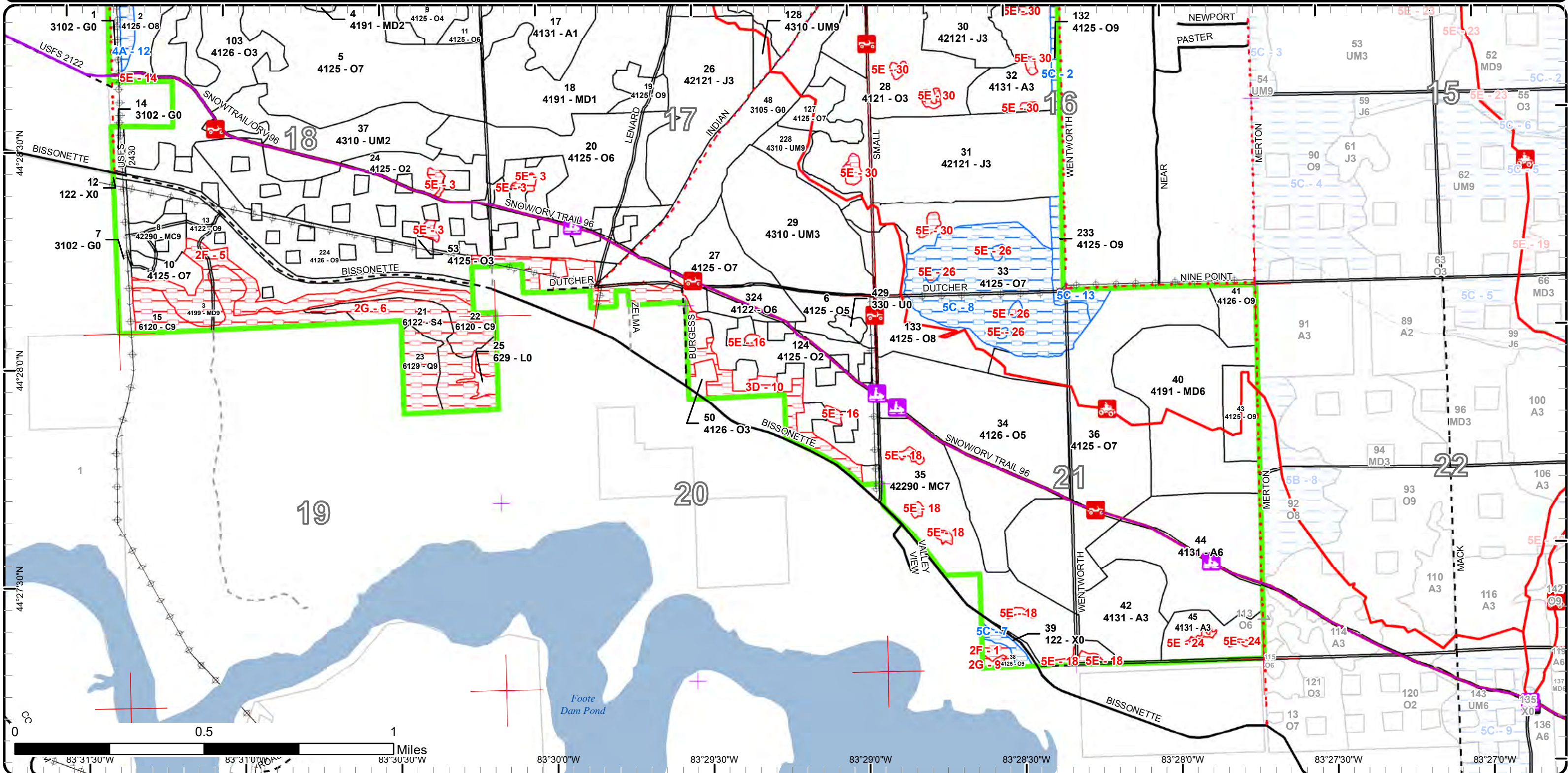


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- Stand Boundaries



Report 1 – Total Acres by Cover Type and Age Class

Grayling Mgt. Unit

Compartment 68

Year of Entry 2023

Scott McClarren : Examiner



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	103	0	69	32	0	0	0	0	0	0	0	0	0	0	0	0	0	204
Cedar	0	0	0	0	0	0	0	0	0	0	0	0	0	34	0	0	0	0	34
Herbaceous Openland	87	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	87
Jack Pine	0	0	0	210	0	0	0	0	0	0	0	0	0	0	0	0	0	0	210
Low-Density Trees	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Lowland Conifers	0	0	0	0	0	0	0	0	0	0	0	0	0	13	0	0	0	0	13
Lowland Shrub	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	0	0	0	0	0	27	0	0	0	0	27
Mixed Upland Deciduous	0	0	91	72	0	0	0	0	0	0	26	0	0	0	0	0	0	0	189
Natural Mixed Pines	0	0	0	0	0	0	9	0	0	74	0	0	0	0	0	0	0	0	83
Oak	0	314	62	71	251	0	0	0	0	133	434	8	26	0	0	0	0	0	1299
Upland Mixed Forest	0	0	47	62	0	0	0	0	26	0	0	0	0	0	0	0	0	0	135
Urban	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
Total	105	417	200	484	283	0	9	0	26	207	434	34	26	74	0	0	0	0	2297



Report 2 – Treatment Summary

Grayling Mgt. Unit

Year of Entry: 2023

Acres of Harvest

Compartment 68

Total Compartment Acres: 2,297

Commercial Harvest - 472
 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
Oak		186	0	0	0	0	0	286	0	0	472
	Total	186	0	0	0	0	0	286	0	0	472

Proposed and Next Step Treatments by Method

		Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current		472	0	0	0	68	0	0	0	0	539
Next Step		0	352	176	0	0	176	605	176	0	1484
	Total	472	352	176	0	68	176	605	176	0	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
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Proposed Treatments:

2	72068002-Cut	31.8	4125 - Black, N. Pin Oak	Sawtimber Medium	90	51-80	Harvest	Clearcut with Retention	412 - Oak Types	Even-Aged	No
<p><u>Prescription</u> Harvest all stems greater than 2" dbh except leave white oak greater than 26". Long-term retention has been designated south of snowmobile trail. Add snowmobile trail specs and oak wilt spec.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory); SitePrep, Trenching; SitePrep, Roller Chopping; Pesticide, Skidder - Site Prep; Planting, Treatments: Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr); Other, Pre-Commercial Th</p> <p><u>Acceptable</u> Oak regen goal. Aspen and pine are also acceptable species. If stand fails to regenerate plant red pine.</p> <p><u>Regen:</u></p> <p><u>Other</u> Start date delayed until FY2026 to stagger the heavy cutting in compartment.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>											

5	72068005-Cut	118.3	4125 - Black, N. Pin Oak	Sawtimber Poor	90	1-50	Harvest	Overstory Removal	412 - Oak Types	Even-Aged	No
<p><u>Prescription</u> Remove all merchantable stems. Follow standard retention guidelines. Protect regen. Include oak wilt spec.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Oak has already been established in understory following previous harvest.</p> <p><u>Regen:</u></p> <p><u>Other</u> Start date delayed until FY2026 to stagger the heavy cutting in compartment.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>											

10	72068010-Cut	8.1	4125 - Black, N. Pin Oak	Sawtimber Poor	101	1-50	Harvest	Overstory Removal	412 - Oak Types	Even-Aged	No
<p><u>Prescription</u> Remove all merchantable stems. No retention due to size.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Oak has already established following shelterwood cut.</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 /2022</p>											



Standard

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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53	72068013-53	1.0	4125 - Black, N. Pin Oak	Sapling Well	26	Immature	Harvest	Clearcut	4199 - Other Mixed Upland Deciduous	Even-Aged	No
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Prescription Clearcut without retention due to small stand size. Protect advanced regen. Harvest with stand 13.
Specs:
Next Step Monitoring, Natural Regen (Re-Inventory)
Treatments:
Acceptable Mixed upland deciduous with 30% oak. Any combination of oak, aspen, pine, and/or fir will be acceptable species.
Regen:
Other Comment:
Site Condition
 Proposed Start Date: 10/1 /2022

13	72068013-Cut	30.4	4122 - Oak, Pine	Sawtimber Well	90	51-80	Harvest	Clearcut with Retention	412 - Oak Types	Even-Aged	No
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Prescription Clearcut following standard retention guidelines. Keep in mind the visual aesthetics along Bissonette Rd when placing retention. In addition, leave all white oak greater than 10" for visual and seed source.
Specs:
Next Step Monitoring, Natural Regen (Re-Inventory); SitePrep, Trenching; SitePrep, Roller Chopping; Pesticide, Skidder - Release; Planting, Initial
Treatments: Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr); Other, Pre-Commercial Thin
Acceptable Oak objective. Pine, aspen, and fir are also acceptable species. If stand fails to regenerate plant red pine.
Regen:
Other Comment:
Site Condition
 Proposed Start Date: 10/1 /2022

19	72068019-Cut	8.9	4125 - Black, N. Pin Oak	Sawtimber Well	83	51-80	Harvest	Clearcut	4131 - Aspen, Oak	Even-Aged	No
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Prescription Clearcut without retention to maximize regen. Include oak wilt spec.
Specs:
Next Step Monitoring, Natural Regen (Re-Inventory)
Treatments:
Acceptable Moderate to fully stocked aspen and oak objective. Any pine will also be accepted.
Regen:
Other Comment: Start date delayed until FY2026 to stagger the heavy cutting in compartment.
Site Condition
 Proposed Start Date: 10/1 /2025

27	72068027-Cut	24.0	4125 - Black, N. Pin Oak	Sawtimber Poor	90	1-50	Harvest	Overstory Removal	412 - Oak Types	Even-Aged	No
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Prescription Remove all merchantable stems. Follow standard retention guidelines. Protect regen. Include snowmobile trail specs and oak wilt spec.
Specs:
Next Step
Treatments:
Acceptable Understory of already established following previous harvest. Aspen and pine are also present and acceptable.
Regen:
Other Comment:
Site Condition
 Proposed Start Date: 10/1 /2022



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
36 72068036-Cut	123.6	4125 - Black, N. Pin Oak	Sawtimber Poor	85	1-50	Harvest	Overstory Removal	412 - Oak Types	Even-Aged	No
<p><u>Prescription</u> Remove all merchantable stems. Protect regen. Follow standard retention guidelines. Include snowmobile trail specs, orv trail specs, and oak wilt specs.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Oak, aspen, and jack pine have already established following previous harvest.</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 /2022</p>										
41 72068041-Cut	10.6	4126 - White, Black, N. Pin Oak	Sawtimber Well	118	51-80	Harvest	Clearcut with Retention	412 - Oak Types	Even-Aged	No
<p><u>Prescription</u> Harvest all stems greater than 2" dbh. Follow standard retention guidelines. Include oak wilt spec.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory); SitePrep, Trenching; SitePrep, Roller Chopping; Pesticide, Skidder - Site Prep; Planting, <u>Treatments:</u> Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr); Other, Pre-Commercial Th</p> <p><u>Acceptable</u> Oak objective. Accept a moderate to fully stocked stand. Pine and aspen are also acceptable species. Plant red pine if stand fails to meet objective.</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 /2022</p>										
43 72068043-Cut	15.1	4125 - Black, N. Pin Oak	Sawtimber Well	118	51-80	Harvest	Clearcut with Retention	412 - Oak Types	Even-Aged	No
<p><u>Prescription</u> Harvest all stems greater than 2" dbh. Follow standard retention guidelines. Add orv trail protection specs.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory); SitePrep, Trenching; SitePrep, Roller Chopping; Pesticide, Skidder - Site Prep; Planting, <u>Treatments:</u> Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr); Other, Pre-Commercial Th</p> <p><u>Acceptable</u> Oak objective. Aspen and pine will also be acceptable species. If stand fails to meet objective plant red pine.</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 /2022</p>										
48 72068048-Burn	67.6	3105 - Mixed Upland Herbaceous	Nonstocked		Unspecified	Burn	Fuel Break	3105 - Mixed Upland Herbaceous		No
<p><u>Prescription</u> Periodically burn and/or mow to set back woody vegetation and maintain for fuelbreak purposes.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Prescribed Burn <u>Treatments:</u></p> <p><u>Acceptable</u> Cover that serves fuelbreak purposes.</p> <p><u>Regen:</u></p> <p><u>Other</u> Treat with stand 44 of Comp 67.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
127 72068127-Cut	12.1	4125 - Black, N. Pin Oak	Sawtimber Poor	90	1-50	Harvest	Overstory Removal	412 - Oak Types	Even-Aged	No
<p><u>Prescription</u> Remove all merchantable stems. Follow standard retention guidelines. Protect regen. Include ORV trail specs and oak wilt spec. <u>Specs:</u></p> <p><u>Next Step</u> <u>Treatments:</u></p> <p><u>Acceptable</u> Oak is already established in understory following previous harvest. <u>Regen:</u></p> <p><u>Other</u> <u>Comment:</u></p> <p><u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2022</p>										
133 72068133-Cut	35.6	4125 - Black, N. Pin Oak	Sawtimber Medium	92	51-80	Harvest	Clearcut with Retention	4121 - Oak, Aspen	Even-Aged	No
<p><u>Prescription</u> Harvest all stems greater than 2" dbh following standard retention guidelines. Include ORV trail specs and oak wilt specs. <u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory); SitePrep, Trenching; SitePrep, Roller Chopping; Pesticide, Skidder - Site Prep; Planting, <u>Treatments:</u> Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr); Other, Pre-Commercial Th</p> <p><u>Acceptable</u> Oak/aspen objective. Any pine will be acceptable as well. If stand fails to meet objective plant red pine. <u>Regen:</u></p> <p><u>Other</u> <u>Comment:</u></p> <p><u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2022</p>										
53 72068224-53	8.3	4125 - Black, N. Pin Oak	Sapling Well	26	Immature	Harvest	Clearcut	4199 - Other Mixed Upland Deciduous	Even-Aged	No
<p><u>Prescription</u> Clearcut, no retention due to size. Protect advanced regeneration. <u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory); SitePrep, Trenching; SitePrep, Roller Chopping; Pesticide, Skidder - Site Prep; Planting, <u>Treatments:</u> Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr); Other, Pre-Commercial Th</p> <p><u>Acceptable</u> Moderate-fully stocked mixed upland deciduous with 30% oak for success. Aspen and pine are also acceptable species. Replant to red pine <u>Regen:</u> if stand 224 fails to meet objectives.</p> <p><u>Other</u> Start date delayed until FY2026 to stagger the heavy cutting in compartment. <u>Comment:</u></p> <p><u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2025</p>										
224 72068224-Cut	44.0	4126 - White, Black, N. Pin Oak	Sawtimber Well	90	51-80	Harvest	Clearcut with Retention	412 - Oak Types	Even-Aged	No
<p><u>Prescription</u> Harvest all stems greater than 2". East boundary of treatment should stop at private property line where drawn. Mitigate visual concerns from <u>Specs:</u> Bissonette Rd through retention. Include oak wilt spec.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory); SitePrep, Trenching; SitePrep, Roller Chopping; Pesticide, Skidder - Site Prep; Planting, <u>Treatments:</u> Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr); Other, Pre-Commercial Th</p> <p><u>Acceptable</u> Oak regen objective. Aspen and pine are also acceptable species. If stand fails to regenerate plant red pine. <u>Regen:</u></p> <p><u>Other</u> Start date delayed until FY2026 to stagger the heavy cutting in compartment. <u>Comment:</u></p> <p><u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2025</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: 539.4

Report 4 – Site Conditions

Grayling Mgt. Unit
Scott McClarren : Examiner

Compartment: 68
Year of Entry: 2023

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions						
		With Condition	Not Available		4A	5C	2F	2G	3D	5E	
204	200	0	4	Aspen							4
34	0	0	34	Cedar				34			
86	86	0	0	Herbaceous Openland							
210	207	0	3	Jack Pine							3
3	3	0	0	Low-Density Trees							
13	0	0	13	Lowland Conifers				13			
3	3	0	0	Lowland Shrub							
27	0	0	27	Lowland Spruce/Fir				27			
190	164	0	26	Mixed Upland Deciduous			26				
83	77	0	5	Natural Mixed Pines							5
1298	1146	94	57	Oak	4	90	2	1	36		18
135	135	0	0	Upland Mixed Forest							
12	12	0	0	Urban							
2,297	2,033	94	169	Total Forested Acres	4	90	29	75	36		30
	89%	4%	7%	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	2F: Too steep	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
2	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Grayling Mgt. Unit
Scott McClarren : Examiner

Compartment: 68
Year of Entry: 2023

3	Unavailable	5E: Long-Term Retention	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Oak retention island left through Designer Jack Block #72-007-93							
5	Unavailable	2F: Too steep	26	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	74	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments: About 3 acres of operable oak in stand.							
8	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	72	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Delayed due to heavy cutting in area.							

Report 4 – Site Conditions

Grayling Mgt. Unit

Scott McClarren : Examiner

Compartment: 68

Year of Entry: 2023

9	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Cedar at bottom of steep slope.							
10	Unavailable	3D: Recreational / Scenic values	36	2I: Survey needed	Unspecified	Unspecified	Unspecified
Comments: Long buffer of trees left along sub-division with 2016 harvest.							
12	Available	4A: No Markets Available for these Forest Products	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Pocket of immature timber.							
13	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Delayed due to heavy cutting in area.							
14	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Long-term retention associated with stand 2.							
16	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
18	Unavailable	5E: Long-Term Retention	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Grayling Mgt. Unit
Scott McClarren : Examiner

Compartment: 68
Year of Entry: 2023

24	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
26	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
30	Unavailable	5E: Long-Term Retention	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
37	Unavailable	5E: Long-Term Retention	4	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.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
1	3102 - Grass	Nonstocked	6.2		Immature	No	20'-30' strip of 90 year old oak/jack pine between powerline and federal land. Old comments- Wheeled vehicle are not allowed on power line per Directors Order.		
2	4125 - Black, N. Pin Oak	Sawtimber Medium	37.1	90	51-80	N/A	Aspen and jack removal cut in 1993 through Coon Rd Thin (72-006-93). According to documents, residual BA 50 sqft of oak and 8 sqft of red pine were left. About 3 acres of non merch jp/oak along powerline. A strip of jp through middle of stand that looks like may have been excluded from previous cut. Understory has patchy pockets of aspen. Oak is pretty steady throughout understory and switches between pin and white. Portions of stand with higher ba have less undrrstory development. Oak is declining. Old comment- Patch cuts found along power line.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Oak		15	Log/Pole	12		White Oak	Medium	Variable	Sapling
Northern Pin Oak		59	Log	12	90	Bigtooth Aspen	Low	>20 feet	Sapling
White Pine		3	Pole/Log	9		Northern Pin Oak	Medium	Variable	Sapling
Red Pine		20	Log	12		Jack Pine	Low	>20 feet	Sapling
Jack Pine		3	Log/Pole	10		Red Pine	Low	Variable	Sapling
3	4199 - Other Mixed Upland Deciduous	Sawtimber Well	26.1	101	1-50	N/A	South facing slope mostly too steep to operate. Split from stand 13 due to operability and cover type difference. Stand becomes more open towards the east.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Oak		4	Log/Pole	12		White Pine	High	Variable	Sapling
Black/Red (Hybrid) Oak		39	Log/XLog	16	101	Balsam Fir	Medium	Variable	Sapling
Bigtooth Aspen		25	Log	13		Black Spruce	Low	Variable	Sapling
Red Maple		15	Pole/Log	8					
White Pine		10	XLog/Log	18					
Red Pine		5	XLog/Log	18					
Northern White Cedar		2	Pole/Log	9					
4	4191 - Mixed Upland Deciduous with Conifer	Sapling Medium	10.3	16	Immature	N/A	Final harvested in 2005 Cicada Oak #72-020-03. Old comments- Jack pine regen decent around the landing. Pockets of aspen and oak stump sprouts.		
Canopy Species		% Cover	Size Class	DBH	Age				
White Oak		10	Sapling	2					
Bigtooth Aspen		15	Sapling	3					
Northern Pin Oak		40	Sapling	2	16				
Jack Pine		30	Sapling	2					
Black Cherry		5	Sapling	2					
5	4125 - Black, N. Pin Oak	Sawtimber Poor	118.3	90	1-50	N/A	Shelterwood harvested in 2005 Cicada Oak #72-020-03. Full oak regen with pockets of aspen. Understory has more white oak and aspen in north. South has mostly pin oak understory.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Oak		15	Log	14		White Oak	High	Variable	Sapling
Northern Pin Oak		85	Log	14	90	Bigtooth Aspen	Low	>20 feet	Sapling
						Northern Pin Oak	High	Variable	Sapling
						Serviceberry (Juneberry)	Trace	10 - 20 feet	Sapling
						Hawthorn (spp.)	Trace	5 - 10 feet	Tall Shrub
						Black Cherry	Low	10 - 20 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
6	4125 - Black, N. Pin Oak	Poletimber Medium	13.7	36	1-50	N/A	Split from stand 29. Stand 6 was harvested in 1985 with adjacent stand 324, but kept separate due to covertype difference. Stand 6 is somewhat open with a lot of sprout origin oak.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Northern Pin Oak		78	Pole/Sapling	6	36	Black Cherry		
White Oak		5	Pole/Sapling	5		Northern Pin Oak		
Jack Pine		15	Sapling/Pole	4		Serviceberry (Juneberry)		
Bigtooth Aspen		2	Pole/Log	8				
7	3102 - Grass	Nonstocked	9.8			No	Small strip of timber on west side of powerline merged in with stand 7. Powerline row.	
8	42290 - Natural Mixed Pine	Sawtimber Well	9.0	57	51-80	N/A	Healthy pine stand with oak component.. Changed to 2 aged because oak is similar age and size to stand 10.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
White Oak		5	Log	12		Northern Pin Oak		
Northern Pin Oak		20	Log	14	101	White Pine		
White Pine		35	Pole/Log	8		Balsam Fir		
Red Pine		40	Log/Pole	10	57	White Oak		
9	4125 - Black, N. Pin Oak	Poletimber Poor	14.7	36	1-50	N/A	Stand 9 was cut same time as stand 11, but came back much sparser. Stand appears to have been cut prior to 1993 looking at old aerial photos. No timber sale record but there is a large stack of fuelwood permits from 1985 for NENE of Sec 18. Mix of pole timber, pockets of immature trees, and scattered saw sized pine. Old comments- Residual overstory of scattered red pine and oak. Stand created through multiple fuel wood cuts.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
White Oak		10	Sapling/Pole	4		Prairie Willow		
Bigtooth Aspen		10	Pole/Sapling	6		Northern Pin Oak		
Northern Pin Oak		60	Pole/Sapling	5	36	Serviceberry (Juneberry)		
Red Pine		7	Log	14				
White Pine		5	Log	14				
Jack Pine		5	Pole/Sapling	5				
Black Cherry		3	Sapling	3				
10	4125 - Black, N. Pin Oak	Sawtimber Poor	8.1	101	1-50	N/A	Looks like a heavy shelterwood cut Good regen underneath. Old comment- A regenerating oak stand.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
White Oak		7	Log/XLog	16		Red Maple		
Northern Pin Oak		93	Log/XLog	16	101	Bigtooth Aspen		
						Northern Pin Oak		
						White Pine		
						Balsam Fir		
						White Oak		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																						
11	4125 - Black, N. Pin Oak	Poletimber Well	38.6	36	51-80	N/A	Stand appears to have been cut prior to 1993 aerial photo at same time as stands in north compartment 67. No timber sale record but there is a large stack of fuelwood permits from 1985 for NENE of Sec 18. Stand is sort of a mixed bag. Called it pole size but there's pockets of immature oak/aspens in places and mature saw size aspen/oak in others. Residual pine component throughout. Old comments-Cherry and sedge ground cover. Areas patch cut over last 20-30 years have great regen.																																																						
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12	122 - Road/Parking Lot	Nonstocked	10.1		Immature	No	Bissonette Rd																																																						
13	4122 - Oak, Pine	Sawtimber Well	30.4	90	51-80	N/A	Skinny east finger is 50-75% canopy closure but, most of stand is 75-100%. Inoperable slope south of stand was split into a new stand from 13. Some of the oak is looking stressed and seeing some individual mortality occurring. Old comment- South side of Bissonett Road along a ridge.																																																						
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14	3102 - Grass	Nonstocked	2.6			No	Small strip of timber on west side of powerline merged in with stand 7.																																																						
15	6120 - Lowland Cedar	Sawtimber Well	21.7	120	171-200	N/A	Dense cedar ba greater than 200 towards north part of stand where slightly drier with little to no sub canopy. Stand gets wetter and more open with high fir sub-canopy as you move south. Legacy white pine scattered through stand as well. Pockets of dense immature fir coming up in some of the open areas as well. Stand has a small pocket of hemlock/cedar towards the middle. Seeps throughout stand.Old comment- A few seeps present.																																																						
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16	4125 - Black, N. Pin Oak	Poletimber Medium	12.0	36	1-50	N/A	Closed canopy in west becoming sparser in the east half. A pocket of mature oak jack pine less than 1 acre towards middle.Old comment-A regenerating oak and aspen stand. A couple nice pockets of blueberry.																																																						
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17	4131 - Aspen, Oak	Sapling Poor	45.0	6	1-50	N/A	Stand harvested in 2015, Comp 068 Mix North #72-014-14-01. Clearcut leave all red/white pine, white oak, and green marked trees (residual BA=7sqft). Stand came back to a mix of aspen oak with varying densities. Some sparser areas where oak is more spread out and heavily browsed. Overall stand is moderately stocked. Stand will be fully stocked if oak and jack pine recruits above browse height. An even aged mature oak stand with a very poor understory in most areas. Misc pine present. Higher BA along the South and Southwest. Fairly sparse in the north.																																																											
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18	4191 - Mixed Upland Deciduous with Conifer	Sapling Poor	81.3	16	Immature	N/A	Final harvested in 2005 Cicada Oak #72-020-03. Very patchy regen with large open areas with scattered cherry and oak. A lot of the jack pine has multiple leaders and is very shrubby in appearance (looks budworm may have played role). Old comments- A regenerating oak and aspen stand. Excellent amount of mast producing shrubs.																																																											
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19	4125 - Black, N. Pin Oak	Sawtimber Well	8.9	83	51-80	N/A	Mature oak/aspen not treated with rest of stand split from stand 20. Old comments (stand 20)- A mixed oak, jack pine, and aspen stand. Regenerating approx 20-30' tall. Evidence of an old fire in stand.																																																											
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20	4125 - Black, N. Pin Oak	Poletimber Well	61.8	31	1-50	N/A	West half of stand final harvested in 1994 Two Sided Jack #72-005-93. Residual BA 2 sqft of RP left. East half of stand harvested around 1984. Couldn't find a distinct difference in timber between old harvest areas. Mostly stump sprouted oak with aspen and jack pine pockets throughout. Also a few pockets of immature timber. Old comments- A mixed oak, jack pine, and aspen stand. Regenerating approx 20-30' tall. Evidence of an old fire in stand.																																																											
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21	6122 - Black Spruce	Poletimber Poor	27.2	120	1-50	N/A	Brushy lowland thick with spruce and blow down difficult to navigate. Hummacky ground with at least 1 creek flowing throughold comments- Majority of cedar has died, scattered black spruce and alder present																																																											
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22	6120 - Lowland Cedar	Sawtimber Well	12.1	120	141-170	N/A	Small streams wind through stand out of hillside seeps. Legacy pines scattered throughout. Old comments- Heavy balsam understory along slope. Seeps and a stream found in stand.																																											
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23	6129 - Mixed Coniferous Lowland Forest	Sawtimber Well	13.2	120	81-110	N/A	Cedar mixed with white pine and a thick spruce sub-canopy. Old comment- A cedar swamp.																																											
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24	4125 - Black, N. Pin Oak	Sapling Medium	105.9	6	Immature	N/A	Stand was final harvested in 2015, Comp 68 Mix South #72-013-14. All merch stems removed except green marked trees and long-term retention islands (residual BA=6 sqft). Old 5-spot regen cuts were left uncut and split into new multi-part stand. Good oak regen throughout most of stand. Came across a few acres of sparser heavily browsed oak with a lot of cherry in places towards the west side of stand. Overall stand meets regen objectives following harvest. Old comments- Stand has had multiple patch cuts prescribed over the years.																																											
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25	629 - Mixed non-forested wetland	Nonstocked	2.5			No	Edge call, cattail and alder, throughout with creeks and open water. Old comments- open water and grass																																											
26	42121 - Planted Jack Pine, Mixed Deciduous	Sapling Well	56.3	26	1-50	N/A	Harvested 1986-1987 #72-100-84. Seeded in 1995. Scattered pole/log size jack pine scattered through stand that look like they were probably residual sub-merch trees that had a jump on seeded stock.																																											
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27	4125 - Black, N. Pin Oak	Sawtimber Poor	24.0	90	1-50	N/A	Shelterwood harvested in 2005 Cicada Oak #72-020-03. Good understory of oak has recruited above browse height.																																													
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28	4121 - Oak, Aspen	Sapling Well	165.2	6	1-50	N/A	Stand harvested in 2015, Comp 068 Mix North #72-014-14-01. Clearcut except leave green marked trees (residual BA=8 sqft). 6 retention islands and 1 island left for visual management in north along Indian Rd. Stands 128 and 228 were split off of 28 to reduce visual impact from the trail. Excellent oak regen with large pockets of aspen. Decent jack pine component throughout as well. Residuals are widely spaced and don't seem to be impeding on new growth.																																													
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29	4310 - Pine, Oak Mix	Sapling Well	61.8	26	1-50	N/A	Cutting records indicate salvage cut in 1988 after fire in spring of 1984. Seeded in 1995. Pockets of pole size natural pine and oak where jp was seeded through and/or around. Old comment- The 1st couple chains along the northwest were not trenched.																																													
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30	42121 - Planted Jack Pine, Mixed Deciduous	Sapling Well	80.5	26	Immature	N/A	2.5 acres in north west side of stand was a separate stand not included in harvest, but was merged with stand 30 after most was cut in Indian Road Fuel Break. 69 acres of stand was trenched and seeded to jack pine in 1995 (FTP #C72-354). An oak retention island was drawn using aerial imagery and the old timber sale map.																																													
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31	42121 - Planted Jack Pine, Mixed Deciduous	Sapling Well	73.0	26	1-50	N/A	Stand was cut in 1986 then trenched and seeded to jack pine in 1995 (FTP #C-72-376). Old comment-Jack pine plantation with scattered oak.																																													
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32	4131 - Aspen, Oak	Sapling Well	37.8	6	Immature	N/A	Stand harvested in 2015, Comp 068 Mix North #72-014-14-01. 3 long-term retention islands left. A strip (stand 232) was left unharvested along east edge. Excellent oak regen following harvest in north half, south half is aspen dominated with an oak component.																																													
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33	4125 - Black, N. Pin Oak	Sawtimber Poor	74.4	92	1-50	N/A	Stand harvested in 2015, Comp 068 Mix North #72-014-14-01. Clearcut except leave red pine, white pine, and green marked trees (residual BA=16 sqft). 4 retention islands. Stand 133 was split off of 33 to break up visual impact from trail. Close to 25% canopy closure of oak saw. Ba is higher towards middle of stand where more red pine was left. Oak regenerated nicely and has gotten above browse height in most places. Fully stocked oak/aspens underneath. Powerline runs adjacent to Dutcher Rd through stand.																																																						
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34	4126 - White, Black, N. Pin Oak	Poletimber Medium	97.7	36	1-50	N/A	Final Harvest in 1985. Old comment- Overall great oak regen (mostly stump sprout origin). A few areas with little to no regen.																																																						
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35	42290 - Natural Mixed Pine	Sawtimber Poor	73.5	83	1-50	N/A	Stand was harvested in 2015, Comp 68 Mix South #72-013-14. All merch stems removed except green marked trees, red pine, white pine, and long-term retention islands (total residual BA left =42 sqft, oak comprises 11 sqft). Jack pine removal cut in 1995 Bissonette Thin Block #72-003-93. A couple hemlock saplings seen during 2021 inventory. Oak and aspen are over 5' where more open. About half of oak is less than 5' where residual ba is higher but, fully stocked overall. Changed age to reflect most of red pine residuals but there are some older seed trees mixed in. Old comment- Oak seedlings but none show potential to advance to the sub-canopy																																																						
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36	4125 - Black, N. Pin Oak	Sawtimber Poor	123.6	85	1-50	N/A	Shelterwood harvested in 2005-2006 Cicada Oak #72-020-03. BA around 50 most places.. Changed age from 107 to 85. There are scattered x-log oaks over 100 years old but most are around 85 year old 14" oak. Diverse understory with heavy pine component in places. Pockets of aspen with oak steady throughout. A snowmobile trail and atv trail both cut through stand. Old comments: Recently treated oak stand. Sub-canopy showing potential.																																																						
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37	4310 - Pine, Oak Mix	Sapling Medium	47.3	16	Immature	N/A	Final harvested in 2005 Cicada Oak #72-020-03. Split east from west stand 103 even though they were harvested at same time. Stand 3 is more open and a pretty even split between jack pine and oak where stand 103 is thick O3.																																																																				
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38	4125 - Black, N. Pin Oak	Sawtimber Well	6.4	98	81-110	N/A	Merged 1 acre cedar stand downslope to meet mapping standards. Small corner of compartment south of Bissonette Rd. Only about 3 acres are operable along the road. Steep slope down to cedar/fir with a couple legacy pines. Seep found on lower hill side. Old comments- The understory has an excellent amount of wp regen.																																																																				
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39	122 - Road/Parking Lot	Nonstocked	2.1		Immature	No	Bissonette Rd																																																																				
40	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	72.0	26	1-50	N/A	Oak dominant along most of stand edges with planted jack pine more prevalent in south and towards middle of stand. Atv trail through stand. Old comments- Pockets of aspen along west edge. Stand cut in 85-trenched and seeded in 95																																																																				
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41	4126 - White, Black, N. Pin Oak	Sawtimber Well	10.6	118	51-80	N/A	Changed age from 103 to 118 years old since it's very similar to stand 43. Lots of declining oak. High-medium density white oak sub canopy through most of stand Old comment- Smaller isolated oak stand																																																																				
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42	4131 - Aspen, Oak	Sapling Well	32.0	35	1-50	N/A	Raised aspen canopy cover during 2021 inventory. Pretty even split of oak aspen pole with about 10 ba of red/white pine residual saw timber. Old comment- A regenerating oak stand.																																																						
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44	4131 - Aspen, Oak	Poletimber Well	68.8	27	1-50	N/A	Final harvested in 1994 Merton Rd Block #72-004-93. Left all RP and oak 11"+. Quite a bit of residual pine and oak left after harvest. Kept even-age designation but, portions of stand look stand 2 aged. Natural pine over top of oak in areas, large open pockets of aspen/oak in others. Northeast of trail scattered 128 year old x-log size oak over aspen/oak. Residual ba pockets are variable and range from 30-70 in places. Super canopy oak and pine comprises roughly 20% of canopy but, was not captured in inventory data due to mifi parameters.																																																						
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45	4131 - Aspen, Oak	Sapling Well	20.1	6	Immature	N/A	Stand was final harvested in 2015, Comp 68 Mix South #72-013-14. All merch stems removed except green marked trees and long-term retention islands (total residual BA left =4 sqft). Excellent regen following harvest. Aspen dominates overall but canopy dominance switches between aspen and oak as you walk through.																																																						
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48	3105 - Mixed Upland Herbaceous	Nonstocked	67.6		Unspecified	Managed Opening	Fuelbreak burned again in September 2019. Lots of dead oak saps sprouting at base about 1-2 feet. Prairie willow throughout the more open areas. Indian Road Fuelbreak; also extends north into comp 67. Treatment approved by variance. Created through a Federal Hazardous Fuels Reduction Grant by the end of 2013 (72-009-13-01), final harvested except for widely-scattered leave trees (RP & oak). FTP C72-738 submitted for burning. Stand was burned in August 2014.																																																						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																										
50	4126 - White, Black, N. Pin Oak	Sapling Well	26.3	26	1-50	N/A	Multi-part stand split from parent stand 24. Two rounds of 5-spot (patch cuts) took place in 1995 and again in 2006 were protected from final harvest in 2015. Good regen throughout. Did not look at every piece of stand but, stuff cut in 1995 is getting some pole size trees and seems to have more residual white pine log size trees than stuff cut in 06. Stand is variable due to how it was cut and what the overstory consisted of prior to cuts. Stand ranges from oak dominated to white pine to aspen depending on which patch your in.																																																										
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53	4125 - Black, N. Pin Oak	Sapling Well	44.7	26	Immature	N/A	Multi-part stand split from parent stand 24. East stands had two rounds of 5-spot (patch cuts) took place in 1995 and again in 2006. West side had one round of patch cuts done in 1995. Patches were protected from final harvest in 2015. Variable cover from patch to patch. Some of the 1995 era cuts are getting pole size and 2006 era are sapling still. Residual pine left inside patch cuts as well.																																																										
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103	4126 - White, Black, N. Pin Oak	Sapling Well	61.9	16	Immature	N/A	Final harvested in 2005 Cicada Oak #72-020-03. Split east from west stand 103 even though they were harvested at same time. Stand 3 is more open and a pretty even split between jack pine and oak where stand 103 is thick O3.																																																										
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124	4125 - Black, N. Pin Oak	Sapling Medium	43.1	6	Immature	N/A	Split from parent stand 24. Stand was final harvested in 2015, Comp 68 Mix South #72-013-14. All merch stems removed except green marked trees and long-term retention islands (residual BA=6 sqft). Old 5-spot regen cuts were left uncut and split into new multi-part stand. Stand has a few spots where oak is heavily browsed and under 5' but, passes regen objective overall. I anticipate those heavily browsed areas to recruit above 6' soon. Old comments- Stand has had multiple patch cuts prescribed over the years.																																																										
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
127	4125 - Black, N. Pin Oak	Sawtimber Poor	12.1	90	1-50	N/A	Split from parent stand 27. Fuel break (stand 48) broke stand into two pieces that do not meet mapping standards for multi-part stand. Shelterwood harvested in 2005 Cicada Oak #72-020-03. Changed age from 111 to 90 however, may be a few trees that age that were to rotten core. Old comments-This stand was seed tree/shelter wooded. A nice 3-5' tall understory of oak has developed.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
White Oak	5	Log	12		White Oak	Medium		5 - 10 feet	Sapling
Northern Pin Oak	95	Log	13	90	Northern Pin Oak	High	5 - 10 feet	Sapling	
128	4310 - Pine, Oak Mix	Sawtimber Well	15.2	77	51-80	N/A	Split from stand 28. Left to reduce harvesting impact on ORV Trail.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	
Northern Pin Oak	43	Log/Pole	11		Northern Pin Oak	High	Variable	Sapling	
Jack Pine	48	Log/Pole	10	77	Serviceberry (Juneberry)	Low	< 5 feet	Sapling	
White Oak	3	Log/Pole	12		Black Cherry	Low	< 5 feet	Sapling	
Bigtooth Aspen	4	Log	12						
White Pine	2	Pole/Log	9						
132	4125 - Black, N. Pin Oak	Sawtimber Well	6.3	91	51-80	N/A	Stand split from 32. Unharvested strip of timber along road. Dead and declining oak and jack pine.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	
Northern Pin Oak	62	Log	13	91	White Oak	High	Variable	Sapling	
Jack Pine	20	Log/Pole	10		Northern Pin Oak	Medium	Variable	Sapling	
White Oak	5	Log	12		Black Cherry	Low	Variable	Sapling	
Bigtooth Aspen	5	Log	11		White Pine	Low	Variable	Sapling	
Red Pine	8	Log	12		Balsam Fir	Trace	10 - 20 feet	Sapling	
133	4125 - Black, N. Pin Oak	Sawtimber Medium	35.6	92	51-80	N/A	Split from 33 to mitigate initial visual impact of harvest from ORV trail. Oak and jack pine are declining. ATV trail winds through north. Poweline adjacent to dutcher rd.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	
Northern Pin Oak	66	Log	14	92	White Oak	Low	Variable	Sapling	
Jack Pine	15	Log/Pole	10		Northern Pin Oak	High	Variable	Sapling	
White Oak	8	Log	12		Serviceberry (Juneberry)	Low	< 5 feet	Sapling	
Bigtooth Aspen	8	Pole/Log	9		Black Cherry	Low	Variable	Sapling	
Red Pine	3	Log/Pole	12		White Pine	Low	Variable	Sapling	
					Balsam Fir	Trace	Variable	Sapling	
224	4126 - White, Black, N. Pin Oak	Sawtimber Well	79.8	90	51-80	N/A	Split from stand 24 (untreated portion due to unsurveyed property corners). Stand had numerous small patch cuts in the far west portion visible from 1993 aerial imagery. 5-spot patch cuts were split from parent stand. Heavy conifer understory in southeast with a few hemlocks spotted in that area. Also some wide crown xlog white oaks. Variable understory due to length of stand but most places are medium to high stocking of oak and/or white pine. Highly visible stand with Bissonette and subdivisions. Oak and jack pine stress throughout with individual mortality occurring.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	
White Oak	20	Log/Pole/XLog	10		White Pine	Medium	10 - 20 feet	Sapling	
Black/Red (Hybrid) Oak	52	Log/Pole	12	90	Northern Pin Oak	Medium	10 - 20 feet	Sapling	
Jack Pine	8	Pole/Log	9		Balsam Fir	Low	Variable	Sapling	
White Pine	10	Log/Pole	10		Red Maple	Low	>20 feet	Sapling	
Red Pine	7	Pole/Log	9		White Oak	Medium	Variable	Sapling	
Bigtooth Aspen	3	Log	14		Bigtooth Aspen	Trace	>20 feet	Sapling	



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228	4310 - Pine, Oak Mix	Sawtimber Well	11.1	77	51-80	N/A	Split from stand 28. Was left to reduce harvesting impact on ATV Trail.																																																		
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324	4122 - Oak, Pine	Poletimber Well	12.7	36	1-50	N/A	Cutting records indicate stand was harvested in 1985, but cutters left a lot of 2 stick jack pine. Jack pine is older but, not quite old enough to call stand 2-aged. Split from parent stand 24. Stand was excluded from harvest in 2015 to reduce visual impact of harvest from rec trail.																																																		
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