



Compartment Review Presentation

Atlanta Forest Management Unit

Compartment 54028

Entry Year 2026

Acreage: 2,046

County Montmorency

Management Area: Presque Isle Lake and Till Plains

Stand Examiner: Trevor Kubitskey

Legal Description:

T30N-R01E, Sections 1-3, 11, & 12

Identified Planning Goals:

To provide for the protection, integrated management and responsible use of a healthy, productive, and undiminished forest resource base for the social, recreational, environmental, and economic benefit of the State Of Michigan. 80 acres in the W1/2 of SW1/4 of section 11 has a Conservation Easement through the Headwaters Land Conservancy. Forest and Habitat planning goals on the Easement will be communicated to Headwaters in compliance with the annual monitoring of the easement.

Soil and topography:

The compartment is predominately located on upland sandy soils including Grayling, Graycalm, Millersburg, and Roselawn types. A small percentage of upland soils include Klacking, Croswell and Rubicon sands. The lower drainages, and swamps contain a mixture of Tawas/Lupton Muck and Dawson-Loxley Peats. The majority of the compartment is upland with rolling hills, while most of the lowland areas follow drainages especially along the East Branch of the Black River.

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

The compartment contains a heavy private-interface with two private parcels encompassed by State ownership in sections 2 & 3. Land use is heavy to recreational users for hunting, elk viewing, fishing and hiking. Most of the Antrim Gas well production is along the CR 622 corridor.

Unique Natural Features:

The East Branch of the Black River runs through the middle of the compartment.

Archeological, Historical, and Cultural Features:

No Archeological, Historical, or Cultural Features known.

Special Management Designations or Considerations:

Watershed and Fisheries Considerations:

The East Branch of the Black River runs through part of this compartment. Appropriate buffers and set-backs will be applied to any proposed management activity near the river corridor.

Wildlife Habitat Considerations:

The primary focus of wildlife habitat management will be to address the habitat requirements identified for the featured species which occur in this compartment. Featured species that occur within this compartment include elk, black bear, ruffed grouse, wild turkey, and white-tailed deer. Based on the selected featured species, some of the most significant wildlife management issues in the management area are the maintenance of young forest; extensive mature forest; large open grassland complexes; the retention of large, over-mature trees and snags; and the maintenance and expansion of hard mast and mesic conifer components.

Mineral Resource and Development Concerns and/or Restrictions

No known potential exists for commercial production of metallic minerals in this part of the state. No known active sand/gravel operations exist in the area. There appears to be some potential for sand & gravel within the compartment on the uplands, but any surface mining would need to avoid oil & gas facilities. The compartment is within the Antrim Shale gas play, and most State-owned mineral rights in the area are currently leased and held by production. Many wells in and around the compartment have been plugged but some continue to produce. Potential for any additional Antrim development in the compartment in the future is considered low. The compartment is on the edge of the Silurian reef trend. In addition, this particular section of the trend seems to lack productive reef reservoirs. Potential for any future hydrocarbon production from reef reservoirs beneath the compartment is considered low. The State does not own all the mineral rights within the compartment. Because the mineral estate is the dominant estate, reasonable access to the surface must be provided to private owners if they choose to explore or develop their mineral rights.

Vehicle Access:

The East half of the compartment is easily accessed off County Road 622 or Shingle Mill. From these main county roads there are multiple Forest Roads that can provide better interior access to the compartment. Access to the West half of the compartment is from Black River Rd, or Growler Club Rd. Access is gated from Growler Club and is walk-in only. From Black River Rd, there is an extensive network of Forest Roads that provide access to the northern areas of the compartment.

Survey Needs:

Areas of sections 1 & 2 will be requiring extensive surveying.

Recreational Facilities and Opportunities:

There are no designated recreational facilities within the compartment. However, the compartment has a lot of recreational use including elk viewing, hunting opportunities and some dispersed camping and fishing along the East Branch of the Black River.

Fire Protection:

Areas of the compartment near County Road 622 or Shingle Mill can be easily accessed by fire personnel. Access to the West half of the compartment from Growler Club or Black River Rd will be difficult. The compartment contains both low and high volatile fuel types.

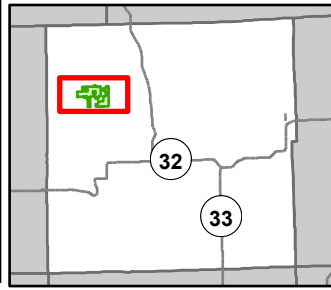
Additional Compartment Information:**The following reports from the Inventory are attached:**

- 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**

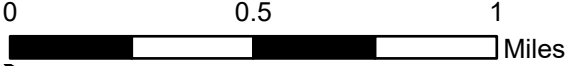
The following information is displayed, where pertinent, on the attached compartment maps:

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

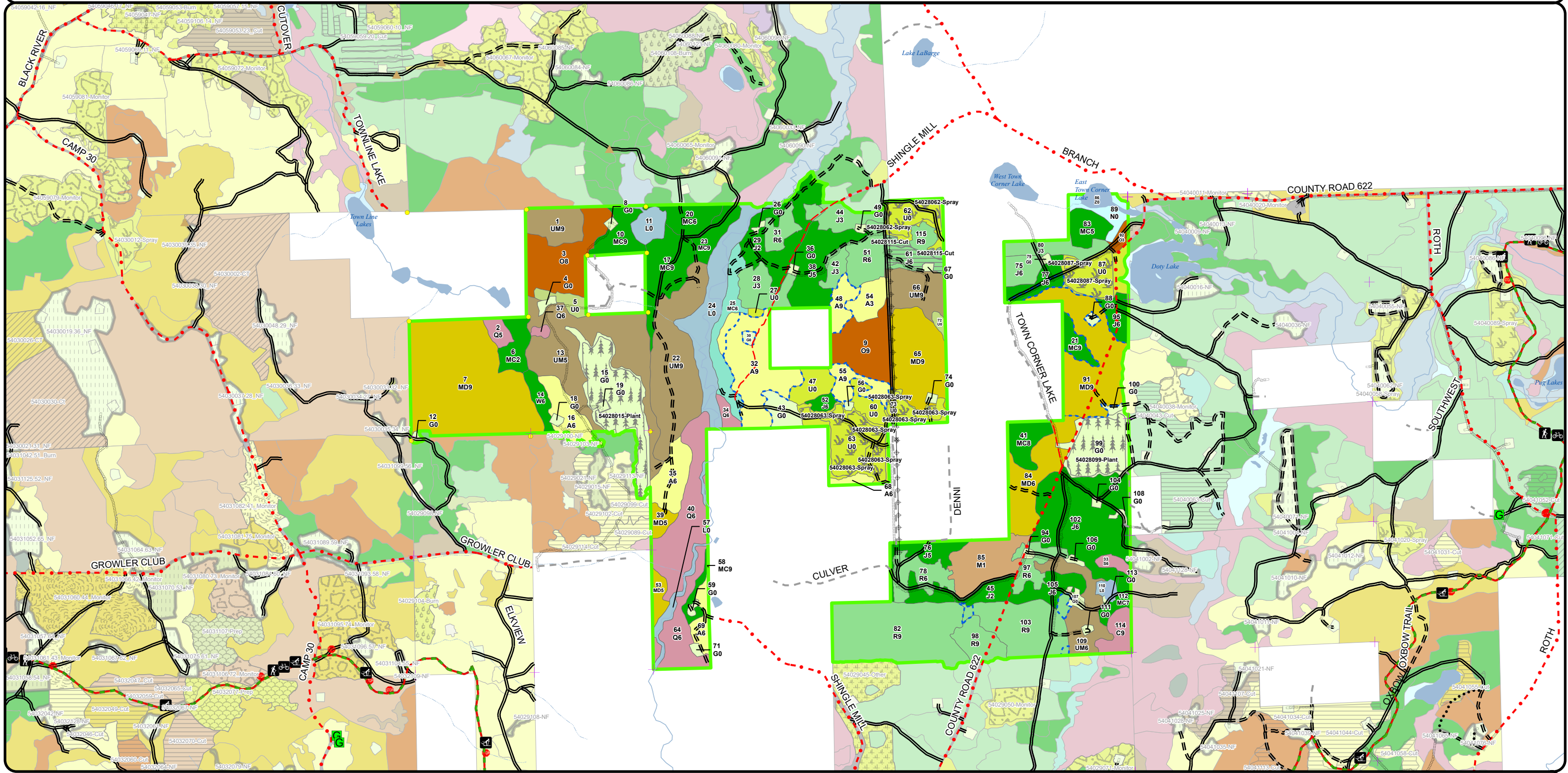
Cover Type & Treatments Map



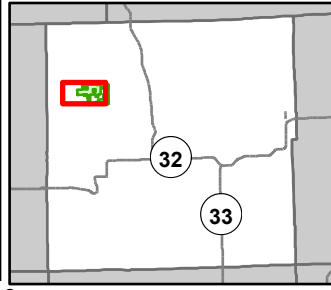
Compartment: 54028
 T31N, R1E, Sec: 1-3, 11, 12
 County: Montmorency
 Unit: Atlanta
 Mgmt Area: Presque Isle Lake
 and Till Plains
 YOE: 2026
 Acres: 2045.9 GIS Calculated
 Examiner: Trevor Kubitskey
 Map Revised: 09/04/2024
 Map Phase: Post Review



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|--------------------------------|-------------------------------------|-----------------------------------|-----------------------------------|---------------------------|
| ▲ Berms | — DNR - Secondary Forest Road | ■ Lakes and Rivers | ■ 412 - Oak Types | ■ 320 - Upland Shrub |
| ■ Gate | == DNR - Forest Access Route | — Pipeline | ■ 413 - Aspen Types | ■ 330 - Low Density Trees |
| ● Sign | - - - County - Gravel Road | ⚡ Powerline | ■ 419 - Mixed Upland Deciduous | ■ 500 - Water |
| ● Survey Grade Corners | - - - County - Dirt Road (Seasonal) | ▭ Compartment Boundary | ■ 421 - Planted Pines | ■ 622 - Lowland Shrub |
| ⊕ Remonumented Section Corners | - - - Private - Dirt / Gravel Road | ▭ Treatments with Site Conditions | ■ 422 - Natural Pines | ■ 623 - Emergent Wetland |
| 🚶 Hiking Trails | ⋯ DNR - Management Access | ☁ Pesticide | ■ 429 - Mixed Upland Conifers | |
| 🚲 Bike Trails | — Intermittent Stream | 🌳 Planting (Tree Species) | ■ 430 - Upland Mixed Forest | |
| 🛷 Ski Trails | — Lake/Pond | ▭ Clearcut (w/Reserves) | ■ 612 - Lowland Coniferous Forest | |
| — Designated Bicycle Trails | — Perennial River | ■ 411 - Northern Hardwood | ■ 310 - Herbaceous Openland | |



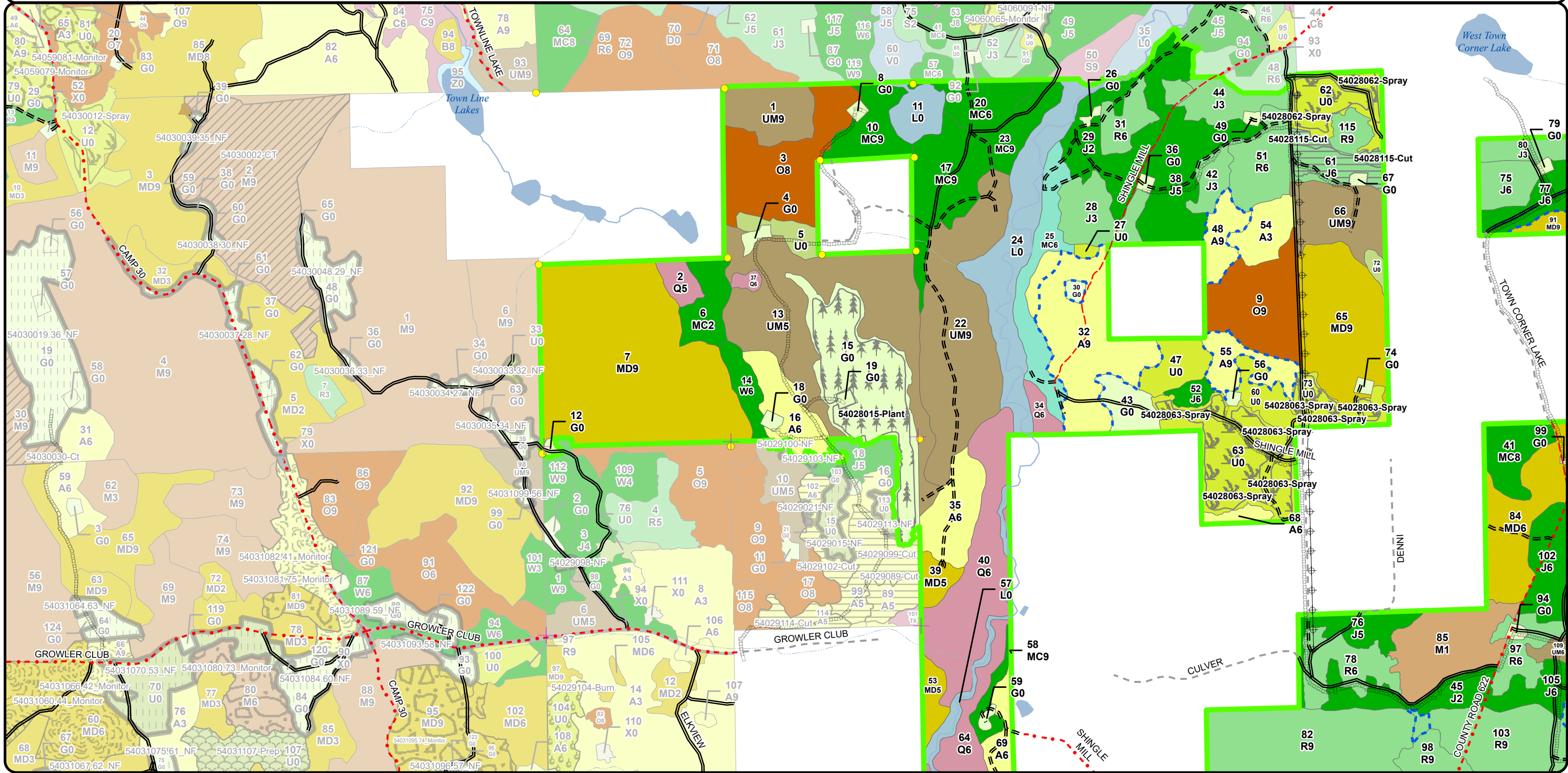
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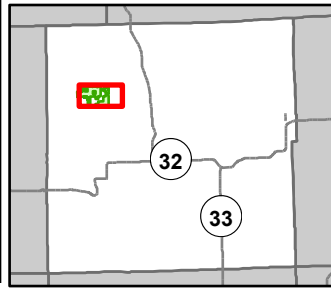
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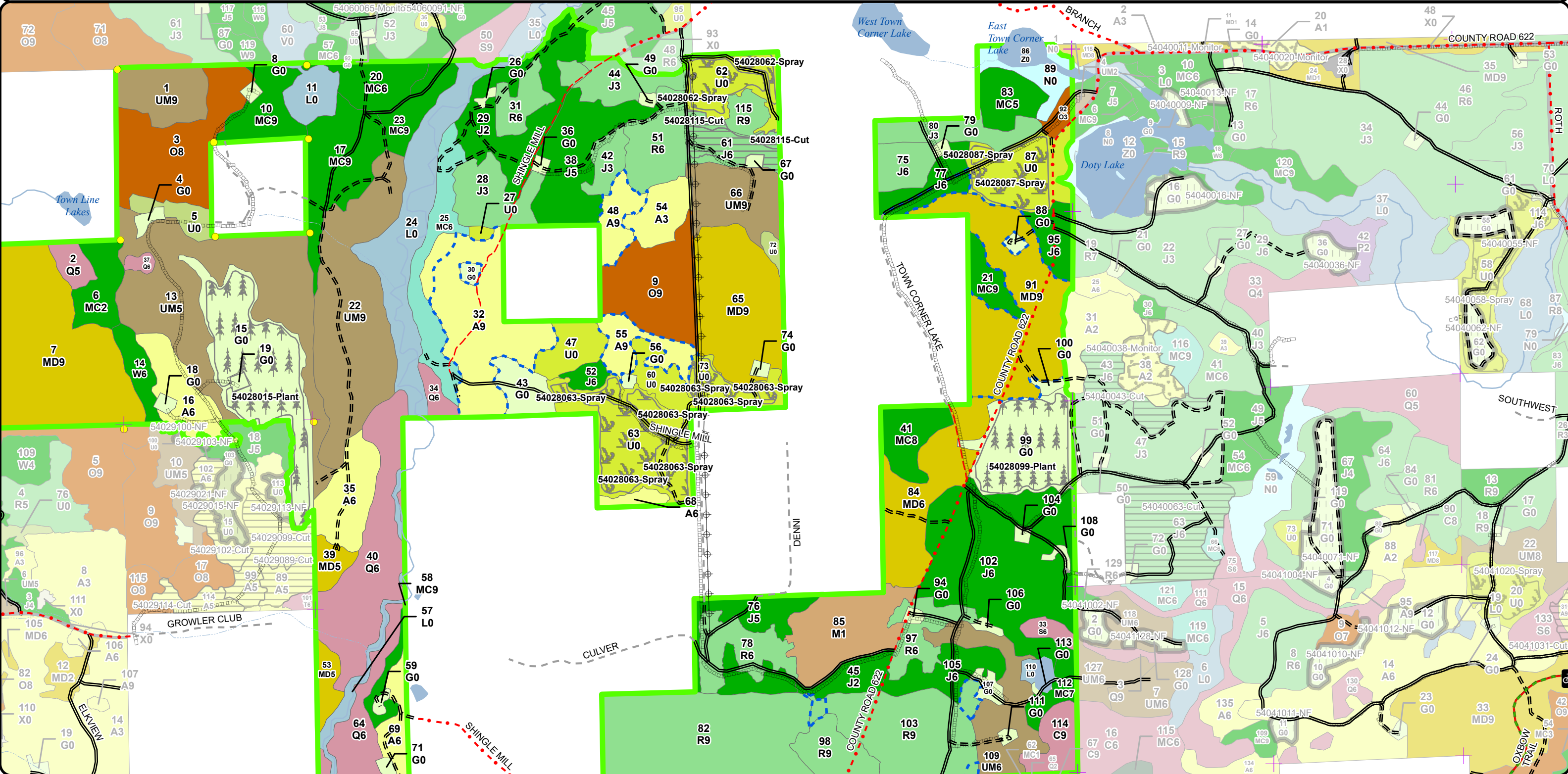
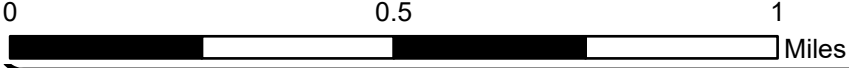


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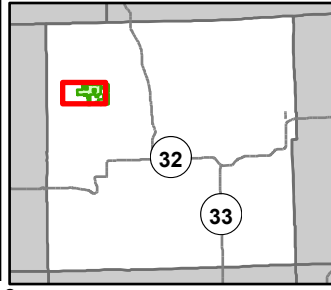


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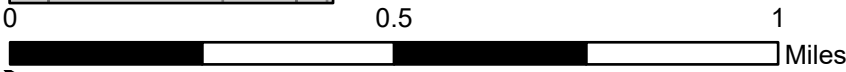
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Stand Boundary Map

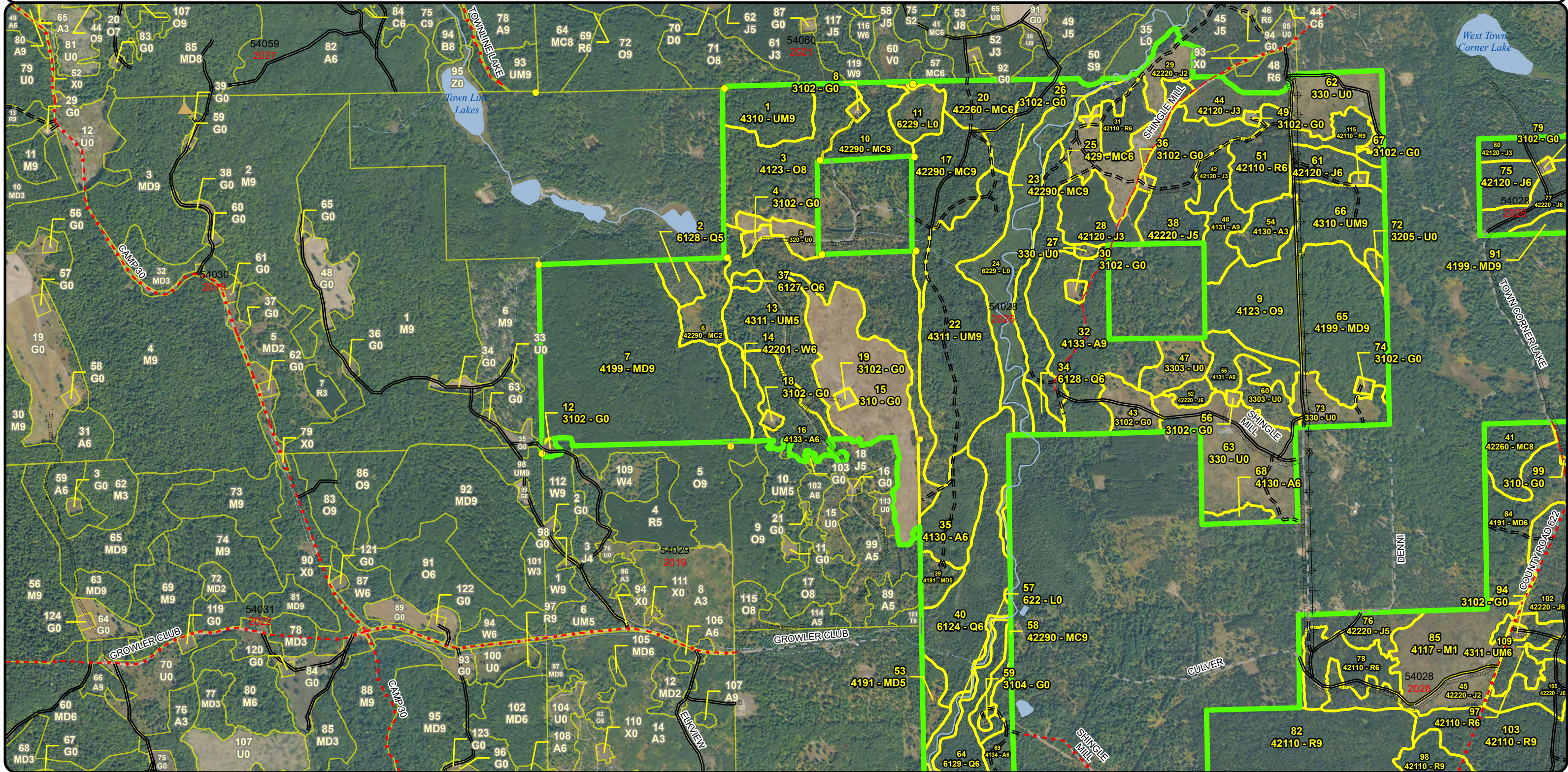


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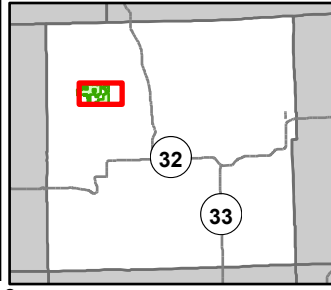


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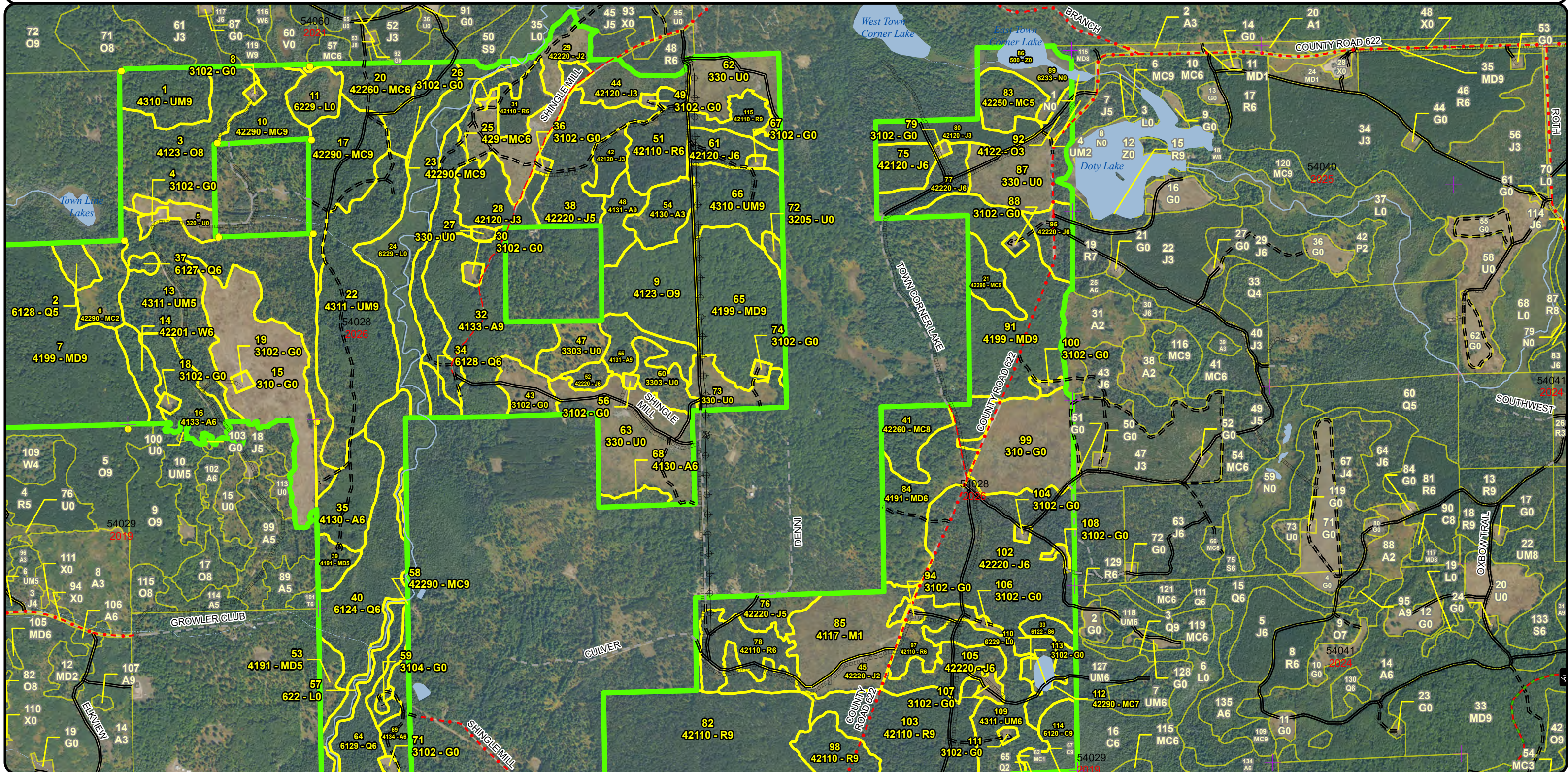
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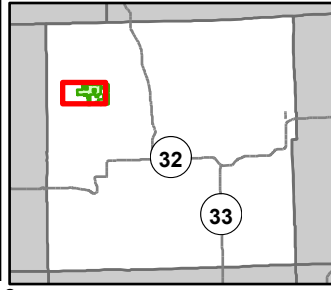
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0 0.5 1 Miles

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Special Conservation Areas & Site Conditions Map

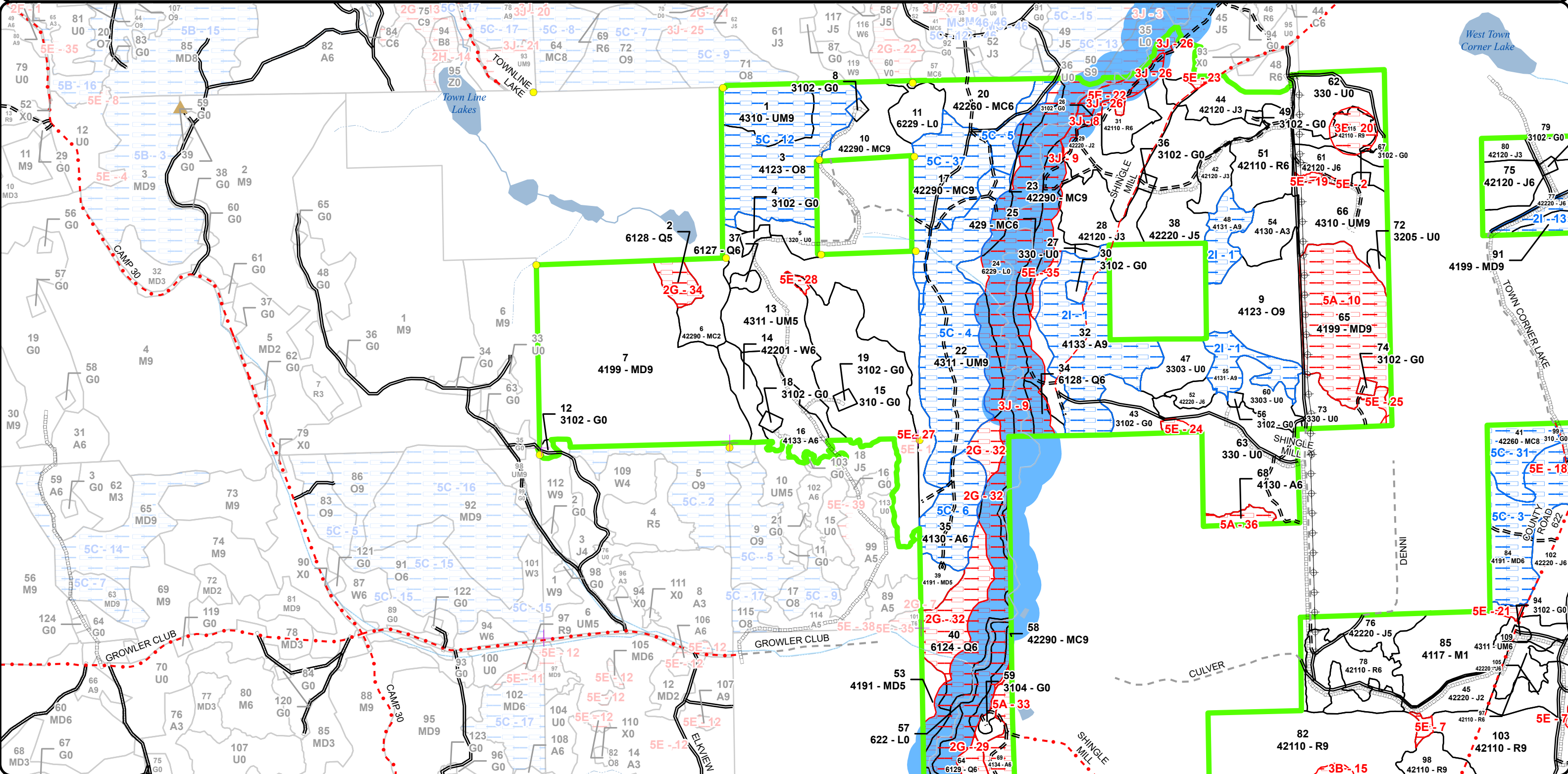
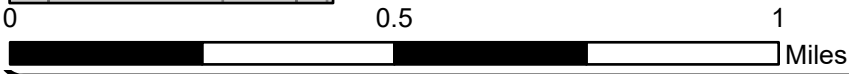


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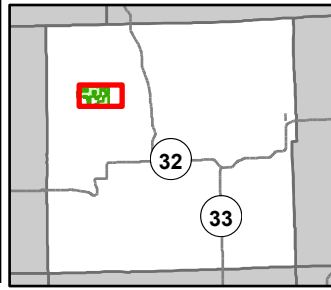
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- Lake/Pond
- Perennial River
- Lakes and Rivers
- Pipeline
- Powerline
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 2I: Survey needed

- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 2G: Too wet (sensitive soils, does not include access issues)
- 3J: Water quality / BMPs (stream, river, or lake)
- 5A: Not able to obtain desirable regeneration
- 5E: Long-Term Retention
- Stand Boundaries
- Cold Water Streams
- High Priority Trout Stream Buffer



Special Conservation Areas & Site Conditions Map



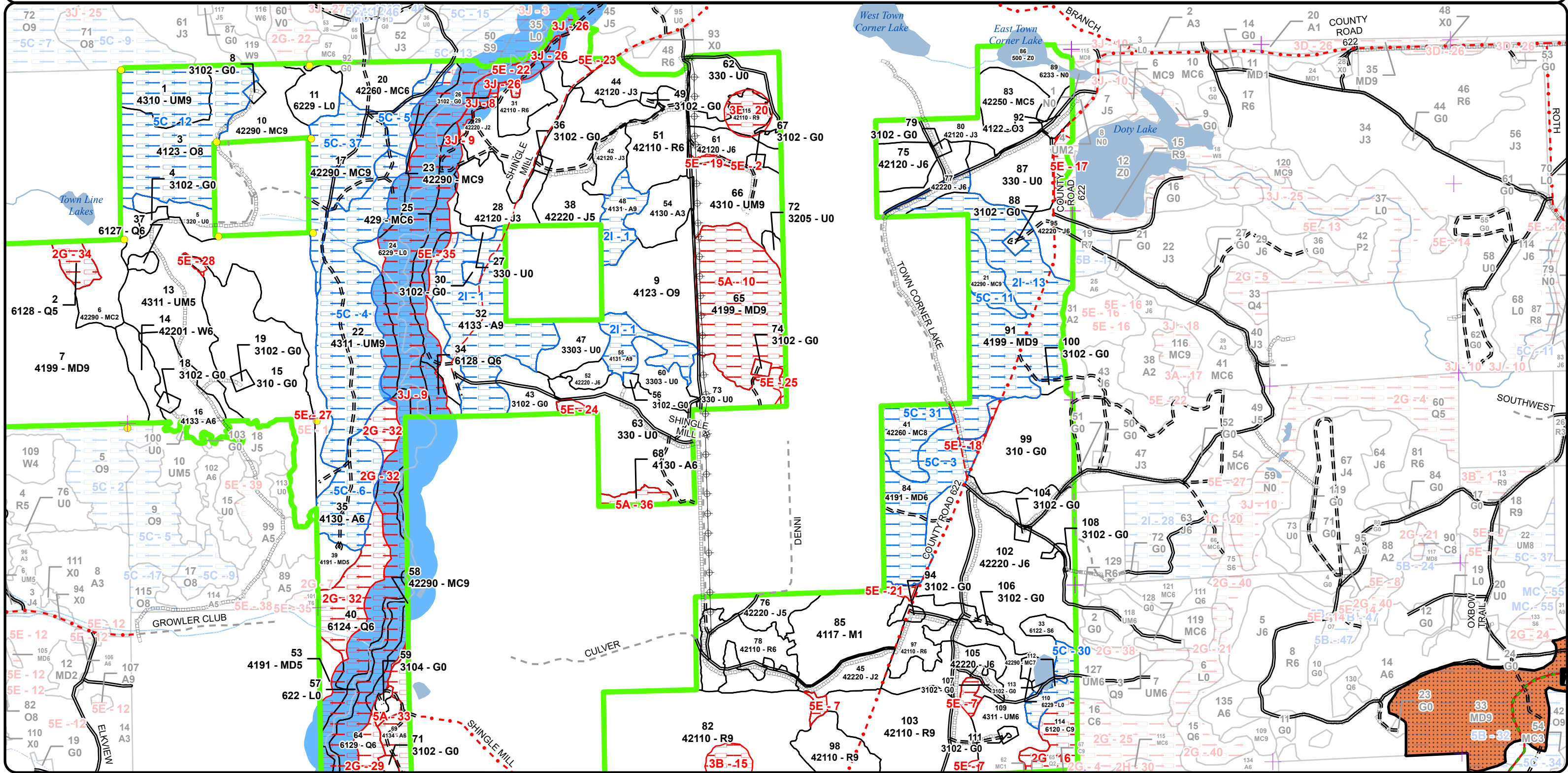
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- 5A: Not able to obtain desirable regeneration
- 5E: Long-Term Retention
- Stand Boundaries
- Cold Water Streams
- High Priority Trout Stream Buffer
- Other Habitat Area

0 0.5 1 Miles



Report 1 – Total Acres by Cover Type and Age Class

Atlanta Mgt. Unit

Compartment 28

Year of Entry 2026

Trevor Kubitskey : 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	0	14	0	0	20	108	10	0	0	0	0	0	0	0	0	0	0	152
Cedar	0	0	0	0	0	0	0	0	0	0	0	0	13	0	0	0	0	0	13
Herbaceous Openland	144	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Jack Pine	0	63	0	28	52	39	128	0	12	0	0	0	0	0	0	0	0	0	322
Low-Density Trees	140	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	140
Lowland Conifers	0	0	0	0	0	2	0	0	0	80	5	0	6	0	0	0	0	0	93
Lowland Shrub	73	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	73
Lowland Spruce/Fir	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	4
Marsh	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
Mixed Upland Deciduous	0	0	0	0	14	0	40	0	0	0	0	200	52	0	0	0	0	0	306
Natural Mixed Pines	0	0	29	0	0	0	0	17	0	23	22	16	0	10	0	0	0	34	150
Northern Hardwood	0	34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	34
Oak	0	0	4	0	0	0	0	0	0	0	0	45	36	0	0	0	0	0	85
Red Pine	0	0	0	0	0	0	0	69	11	153	0	0	0	0	0	0	0	0	232
Upland Conifers	0	0	0	0	0	0	25	0	0	0	0	0	0	0	0	0	0	0	25
Upland Mixed Forest	0	0	0	0	0	87	106	0	26	0	0	21	0	0	0	0	0	0	240
Upland Shrub	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
Water	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
White Pine	0	0	0	0	0	9	0	0	0	0	0	0	0	0	0	0	0	0	9
Total	382	97	47	28	66	162	407	96	49	256	27	282	107	10	0	0	0	34	2047



Report 2 – Treatment Summary

Atlanta Mgt. Unit

Compartment 28

Year of Entry: 2026

Acres of Harvest

Total Compartment Acres: 2,046

Commercial Harvest - 302
 Harvests with Site Condition - 152
 Next Step Harvest - 0
 Habitat Cut - 0

Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Aspen	77	0	0	0	0	0	0	0	0	77
Jack Pine	19	0	0	0	0	0	0	0	0	19
Mixed Upland Deciduous	65	135	0	0	0	0	0	0	0	200
Red Pine	135	0	0	0	0	5	17	0	0	157
Total	297	135	0	0	0	5	17	0	0	454

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Pruning	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	454	0	80	0	36	73	32	0	0	675
Next Step	0	310	343	0	28	310	1268	135	0	2392
Total	454	310	422	0	64	383	1300	135	0	3068



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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:

7	54028007-Cut	135.0	4199 - Other Mixed Upland Deciduous	Sawtimber Well	102	141-170	Harvest	Single Tree Selection	411 - Northern Hardwood	Even-Aged	No
<p><u>Prescription</u> Thin stand down to 80 sq ft. Establish Regen gaps at a rate of 1 per 5 acres with a minimum size of 200' x 200' (roughly 1 acre). Cut all beech. Mark any healthy beech to retain for mast/wildlife trees not exceeding 5 BA for entire stand. Mark to cut Red/White pine as needed. Do NOT cut any Hemlock. Require mapping of regen gaps during sale prep.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Intermediate)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Any combination of desirable hardwood species such as Oak, Sugar Maple, Basswood, Cherry, Birch that meet minimum stocking criteria that is not dominated by beech and/or ironwood</p> <p><u>Other Comment:</u> Add Oak wilt specs and raptor protection specs. Require loggers to place tops and slash around and within regen gaps as well as on cut oak stumps to deter Elk and Deer browse.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2027</p>											
9	54028009-Burn	36.2	4123 - Red Oak	Sawtimber Well	110	111-140	Burn	Understory	412 - Oak Types	Uneven-Aged	No
<p><u>Prescription</u> Low to moderate intensity prescribed burn to set-back non desirable woody vegetation and to expose mineral soil to help promote Oak establishment.</p> <p><u>Next Step</u> Monitoring, Prescribed Burn</p> <p><u>Treatments:</u> ; Monitoring, Prescribed Burn</p> <p><u>Acceptable Regen:</u> To establish any amount of desirable species such as White Oak, Red Oak, mixed pine or other beneficial species per WLD.</p> <p><u>Other Comment:</u> Treatment boundary may be reduced due to local topography and fuel loading when control lines are established.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>											
32	54028032-Cut	52.0	4133 - Aspen, Mixed Pine	Sawtimber Well	58	111-140	Harvest	Clearcut with Retention	4136 - Aspen, Mixed Conifer	Even-Aged	No
<p><u>Prescription</u> Final harvest 2" and up. Standard retention around large crowned oaks and/or supercanopy red/white pine. Small strip of retention was already identified next to the 300ft buffer per conversation with FISH. Protect any sub-merchantable Red/White Pine regen. Drumming log spec. Mark to leave any large diameter, supercanopy pine not to exceed 5 ba.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Moderately stocked aspen with a component of mixed deciduous and mixed conifer.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u> Survey Needed</p> <p><u>Proposed Start Date:</u> 10/1 /2027</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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48	54028048-Cut	11.3	4131 - Aspen, Oak	Sawtimber Well	55	141-170	Harvest	Clearcut	413 - Aspen	Even-Aged	No
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Prescription Final harvest. No retention due to small stand size and to maximize regeneration. Drumming log spec, soft oak wilt spec. Leave all white pine.
Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)
Treatments:

Acceptable Moderately to fully stocked aspen with a minor component of Oak, Red Maple, and Mixed Pine.
Regen:

Other Survey needed.
Comment: Close admin access roads during timber sale.

Site Condition Survey Needed

Proposed Start Date: 10/1 /2027

52	54028052-Cut	4.2	42220 - Natural Jack Pine	Poletimber Well	42	81-110	Harvest	Clearcut	4132 - Aspen, Jack Pine	Even-Aged	No
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Prescription Final Harvest 2" and up. No retention due to small stand size. Do NOT cut Red Pine.
Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)
Treatments:

Acceptable Any mix of natural Jack Pine, Aspen with a component of other mixed deciduous species that meet minimum stocking criteria. Expect regeneration to be patchy and that is OK.
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2027

55	54028055-Cut	14.0	4131 - Aspen, Oak	Sawtimber Well	58	111-140	Harvest	Clearcut	4139 - Aspen, Mixed Deciduous	Even-Aged	No
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Prescription Final harvest 2" and up. No retention due to maximizing regeneration due to concerns with elk and deer browse. Do NOT cut Red or White pine. Oak wilt specs and drumming log specs. Leave tops around oak stumps to discourage browse.
Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)
Treatments:

Acceptable Moderately stocked aspen with a component of mixed pine (Red, White and Jack) and other mixed deciduous such as White/Red Oak, Red Maple and Cherry.
Regen:

Other Survey needed.
Comment:

Site Condition Survey Needed

Proposed Start Date: 10/1 /2027

77	54028077-Cut	5.2	42220 - Natural Jack Pine	Poletimber Well	56	51-80	Harvest	Clearcut	4199 - Other Mixed Upland Deciduous	Even-Aged	No
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Prescription Final harvest 2" DBH and up. No retention. Do not cut White Pine and mark to leave any Red Pine over 20" DBH. Harvesting this portion will allow equipment to be able to operate up and down the slope in the adjacent treatment. Try to protect any sub-merch white/red pine.
Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)
Treatments:

Acceptable Minimum to moderately stocked stand that consists of Aspen, Oak, Cherry, Red Maple and Mixed Pine.
Regen:

Other
Comment:

Site Condition Survey Needed

Proposed Start Date: 10/1 /2027



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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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82	54028082-Cut	57.2	42110 - Planted Red Pine	Sawtimber Well	86	111-140	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	No
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Prescription Final Harvest all stems 1" DBH and up. Standard Retention. Place retention in a location that will reduce conflict with post harvest cultivation efforts. Avoid putting retention along the private boundary. Verify Goshawk nest in the 3B-15 site condition polygon before sale prep. If active, exclude this portion from the treatment and consult with WLD biologist.

Next Step SitePrep, Roller Chopping; SitePrep, Trenching; Pesticide, Aerial - Site Prep; Monitoring, Herbicide Use; Planting, Initial Plant;
Treatments: Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr); Planting, Replant; Pesticide, Aerial -

Acceptable Regen: Fully stocked Red Pine plantation.

Other Comment: Add Chipping and low-stump spec

Site Condition

Proposed Start Date: 10/1 /2027

82	54028082-Cutx	28.7	42110 - Planted Red Pine	Sawtimber Well	86	111-140	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Uneven-Aged	No
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Prescription Final harvest all stems 1" DBH and up. Do NOT cut White Pine. 3-5% Retention focused around any mast producing Oak or advanced pine regeneration. This treatment is to try maintain natural regeneration within the elk management area.

Next Step Monitoring, Natural Regen (Re-Inventory)
Treatments:

Acceptable Regen: Any amount of Red/White Pine, Oak, Red Maple, Aspen, Cherry that meet moderate stocking criteria. Stand will already have a multi-cohort White Pine component after harvest which will result in an uneven-aged stand. If stand regenerated towards a MD stand, that is ok.

Other Comment: Survey corners are present. 2018 NAIP CIR shows the higher deciduous component within this treatment.

Site Condition

Proposed Start Date: 10/1 /2027

85	54028085-Int_Monitor	32.3	4117 - Mixed N. Hardwood - Pine	Sapling Poor	4	Immature	Monitoring	Natural Regen (Intermediate)	42221 - Natural Jack Pine, Mixed Deciduous	Even-Aged	No
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Prescription Monitor. Regen check during 2028 YOE timber sale prep year. If stand does not meet natural Jack Pine and the acceptable regeneration, re-plant with stands 82 and 103.

Next Step SitePrep, Trenching; Pesticide, Skidder - Site Prep; Monitoring, Herbicide Use; Planting, Initial Plant; Monitoring, Artificial Regen(1yr);
Treatments: Monitoring, Artificial Regen(3yr); Planting, Replant; Pesticide, Skidder - Release; Other, Pre-Comm

Acceptable Regen: Moderately to fully stocked Jack Pine with a minor component of Red/White Pine and Cherry.

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2027



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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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91 54028091-Cut	65.0	4199 - Other Mixed Upland Deciduous	Sawtimber Well	104	111-140	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	No
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Prescription Final Harvest 2" DBH and up. Standard retention placed along the edge of the treatment trying to capture large crowned/diameter mixed Oak, and super canopy pines. Protect any sub-merchantable white pine or red pine saplings. Do not put any retention along the private boundary. Mark additional Red/White Pine or XLog Oak to leave not to exceed 5 BA for entire sale area.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Regen: Moderately stocked stand with a mix of Aspen, Red/White Oak, Cherry, Sugar Maple, Basswood, Red Maple, Birch and mixed Pine/Conifers. Expect some areas to come back more to true aspen with others more Mixed. If stand transitions to more Aspen that is acceptable as long as there is a minor component of the other listed species.

Other Comment: Require Oak wilt specs, drumming log and no chipping. Pile tops around cut Oak stumps.

Site Condition Survey Needed

Proposed Start Date: 10/1 /2027

98 54028098-Removal	17.3	42110 - Planted Red Pine	Sawtimber Well	86	141-170	Harvest	Overstory Removal	42260 - Natural Pine, Mixed Deciduous	Even-Aged	No
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Prescription Specs: Overstory removal. Harvest all stems 4" DBH and up. Mark to leave 1-3 Mixed Red Oak, Red/White Pine per acre to maintain vertical structure as well as seed and mast production. Legacy trees present. Add WP/RP seedling/sapling protection specs. Short wood operation only.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Regen: Any amount of White/Red Pine that meet minimum stocking criteria. Portions may regenerate heavier towards Oak, Aspen or Red Maple. As long as Red/White Pine make up more than half the stand, accept the regeneration

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2027

103 54028103-Cut	45.3	42110 - Planted Red Pine	Sawtimber Well	86	111-140	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	No
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Prescription Specs: Final Harvest all stems 1" and up. Standard retention. Retention has been identified to reduce conflict with the EMR managed lands polygon. See Conservation Area Reviewer. Require low stumps and chipping spec.

Next Step SitePrep, Roller Chopping; SitePrep, Trenching; Pesticide, Aerial - Site Prep; Monitoring, Herbicide Use; Planting, Initial Plant;
Treatments: Monitoring, Artificial Regen(1yr); Pesticide, Aerial - Release; Other, Pre-Commercial Thinning - Mechanical;

Acceptable Regen: Fully Stocked Red Pine plantation.

Other Comment:

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2027



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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
103 54028103-Thin	5.0	42110 - Planted Red Pine	Sawtimber Well	86	111-140	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Thin down to ~80 sq ft. Target trees of poor form and quality. EMR timing restriction due to close proximity to EMR managed lands.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Fully Stocked Red Pine plantation.</p> <p><u>Regen:</u></p> <p><u>Other</u> This portion is designated long term retention and will have no follow up treatments.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u> Long-Term Retention</p> <p><u>Proposed Start Date:</u> 10/1 /2027</p>										

Approved Treatments:

15 54028015-Plant	47.5	310 - Herbaceous Openland	Nonstocked	0	Unspecified	Planting	Initial Plant	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Plant red pine.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> ; Monitoring, Herbicide Use; ; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> well stocked stand of planted red pine</p> <p><u>Regen:</u></p> <p><u>Other</u> Percent to Treat = 100%</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>										
61 54028061-Cut	10.0	42120 - Planted Jack Pine	Poletimber Well	74	81-110	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Clearcut, cut all trees 2" DBH and larger, chip tops, low stumps. leave 3-10% retention</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Burn, Slash</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> well stocked stand of planted red pine</p> <p><u>Regen:</u></p> <p><u>Other</u> jack and red are the same age. jack pine is poor quality on this site and red seems to be growing well.</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
62 54028062-Spray	14.2	330 - Low-Density Trees	Nonstocked	0	Unspecified	Pesticide	ERROR	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> If necessary; Apply herbicide to set back woody competition to planted red pine. <u>Specs:</u> <u>Next Step</u> Burn, Slash; ; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Herbicide Use; Monitoring, Artificial Regen(3yr) <u>Treatments:</u> <u>Acceptable</u> well stocked stand of planted red pine <u>Regen:</u> <u>Other</u> Percent to Treat = 100% <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2023</p>										
63 54028063-Spray	39.9	330 - Low-Density Trees	Nonstocked	0	Unspecified	Pesticide	ERROR	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Apply herbicide to set back woody competition to planted red pine. <u>Specs:</u> <u>Next Step</u> SitePrep, Roller Chopping; Pesticide, Aerial - Release; ; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Herbicide <u>Treatments:</u> Use; Monitoring, Artificial Regen(3yr) <u>Acceptable</u> Planted red pine. <u>Regen:</u> <u>Other</u> Percent to Treat = 100% <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2023</p>										
87 54028087-Spray	19.0	330 - Low-Density Trees	Nonstocked	0	Unspecified	Pesticide	ERROR	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Apply herbicide to set back woody competition to planted red pine. <u>Specs:</u> <u>Next Step</u> ; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Herbicide Use; Monitoring, Artificial Regen(3yr) <u>Treatments:</u> <u>Acceptable</u> Well stocked stand of planted red pine. <u>Regen:</u> <u>Other</u> Percent to Treat = 100% <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2023</p>										
99 54028099-Plant	32.2	310 - Herbaceous Openland	Nonstocked	0	Unspecified	Planting	Initial Plant	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Plant to red pine. <u>Specs:</u> <u>Next Step</u> ; ; Monitoring, Artificial Regen(1yr); Monitoring, Herbicide Use; Monitoring, Artificial Regen(3yr) <u>Treatments:</u> <u>Acceptable</u> well stocked stand of planted red pine <u>Regen:</u> <u>Other</u> Percent to Treat = 100% <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2024</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
115 54028115-Cut	3.8	42110 - Planted Red Pine	Sawtimber Well	74	111-140	Harvest	Clearcut	42110 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> clearcut, cut all trees 2" DBH and larger, chip tops, low stumps.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Burn, Slash</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> well stocked stand of planted red pine</p> <p><u>Regen:</u></p> <p><u>Other</u> Not requiring retention due too the small size of the stand.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										

Total Treatment Acreage Proposed: 675.3

Report 4 – Site Conditions

Atlanta Mgt. Unit
Trevor Kubitskey : Examiner

Compartment: 28
Year of Entry: 2026



Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions						
		With Condition	Not Available		2I	5C	2G	3B	3J	5A	5E
149	33	99	17	Aspen	77	22			0	14	2
13	0	0	13	Cedar			13				
143	140	0	4	Herbaceous Openland					1		3
321	303	5	13	Jack Pine	5			0	2		11
139	131	0	8	Low-Density Trees				1			7
69	3	0	66	Lowland Conifers			44		22		
73	16	0	57	Lowland Shrub					57		
5	5	0	0	Lowland Spruce/Fir							
12	12	0	0	Marsh							
306	146	105	56	Mixed Upland Deciduous	65	40			3	52	0
150	65	76	8	Natural Mixed Pines		76			8		
34	32	0	2	Northern Hardwood							2
85	40	45	0	Oak	0	45					
233	213	0	20	Red Pine		0		14	1		5
9	9	0	0	Upland Conifers					0		
240	142	87	11	Upland Mixed Forest		87			11		0
10	10	0	0	Upland Shrub							
3	3	0	0	Water							
9	9	0	0	White Pine							
2,003	1,312	417	274	Total Forested Acres	148	270	56	16	105	66	30
	66%	21%	14%	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	Available	2I: Survey needed	77	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
2	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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3	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	40	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Need to stagger the age class. High stem densities triggered the 'Meet Criteria.'							
4	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	66	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Hold. Stagger the harvests in the area. Aspen should hold.							
5	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Hold. Overall BA is too low to warrant a thinning, possibly treat when stand 20 is ready. Follow natural pine guidance.							
6	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	22	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Stand is healthy enough to hold until next entry. Hold to break up the age class within the area.							
7	Unavailable	5E: Long-Term Retention	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Long Term Retention for stand 103.							
8	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	1	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments:							

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9	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	145	Unspecified	Unspecified	Unspecified	Unspecified
Comments: East Branch Black River 300ft Buffer							
10	Unavailable	5A: Not able to obtain desirable regeneration	52	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Low stem density, minimal sub-canopy development and heavy use by Elk and Deer. Concern that stand will not regenerate due to browse.							
11	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
12	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	66	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Stand can hold. Treat next entry.							
13	Available	2I: Survey needed	70	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Survey required.							
15	Unavailable	3B: Threatened, endangered, and special concern species	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Active Goshawk nest as of 2016							

Report 4 – Site Conditions



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16	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
17	Unavailable	5E: Long-Term Retention	4	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments:							
18	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
19	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
20	Unavailable	3B: Threatened, endangered, and special concern species	8	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
Comments:							
21	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
22	Unavailable	5E: Long-Term Retention	9	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments:							
Aggregate retention and RMZ for harvest in stand 54030029. Portions belonged formerly to compartment 28 stand 45.							

Report 4 – Site Conditions



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23	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Area retention for stand 44							
24	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
25	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
26	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments: 300 foot cold water stream buffer							
27	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
28	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
29	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Standing water in most places. Soils extremely mucky.							

Report 4 – Site Conditions



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30	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Natural Pine.							
31	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	16	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Natural Pine.							
32	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	27	5A: Not able to obtain desirable regeneration	Unspecified	Unspecified	Unspecified
Comments: Flowing water under sedge/moss mats in some places.							
33	Unavailable	5A: Not able to obtain desirable regeneration	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Concerned with small acreage and heavy browse pressure.							
34	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	6	5A: Not able to obtain desirable regeneration	Unspecified	Unspecified	Unspecified
Comments: Saturated ground. Stand would most likely flood out if harvested and not contain acceptable regeneration.							
35	Unavailable	5E: Long-Term Retention	2	1C: Other dept or div proc/practices	Unspecified	Unspecified	Unspecified
Comments: Long term retention for stand . Per conversation with Fisheries, they would like to extend the 300 ft buffer to 400 ft to discourage aspen regeneration due to heavy beaver activity.							

Report 4 – Site Conditions



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Compartment: 28

Year of Entry: 2026

36	Unavailable	5A: Not able to obtain desirable regeneration	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Small acreage. Stand will be overrun with Elk and Deer browse if harvested.							
37	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	34	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Mgt. Unit

Compartment: #Type!

Year of Entry:



Report 5 – PROPOSED SPECIAL CONSERVATION AREA* (SCA) DETAILS

* This is a partial list of SCAs for this compartment. Not included are those areas identified under other Department initiatives (Natural Rivers, Deer Wintering Areas, etc.). Those will be identified in separate, future map and report products.

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments



Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

* This is a list of SCA's for this compartment along with a 1/4 mile buffer surrounding the compartment. Refer to the Special Conservation Area Map for locations of the below listed Conservation Areas.

ERA = Ecological Reference Area
HCVA = High Conservation Value Area
SCA = Special Conservation Area

Conservation Area	Type	Description
SCA	Cold Water Lake	A coldwater lake has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species to persist from year to year. Suitable conditions for coldwater fishes may occur in Michigan lakes if they are relatively deep, have substantial groundwater inflows, or are located in colder (northern) areas of the state. Such lakes are established by Director's action and designated as trout resources by Fisheries Order 200.
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in which the terrestrial ecosystem influences the aquatic ecosystem and vice-versa. Because of the unique conditions adjacent to lakes, streams and open water wetlands, riparian areas harbor a high diversity of plants and wildlife. Riparian communities are ecologically and socially significant in their effects on water quality and quantity, as well as aesthetics, habitat, bank stability, timber production, and their contribution to overall biodiversity.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																									
1	4310 - Pine, Oak Mix	Sawtimber Well	20.9	104	81-110	N/A	<p>Unsure on history of stand - significant growth in Pine cores around the 50 year old mark (disturbance/cutting) which would match the age of the intermediate white pine age. Most of the canopy pine is around the same age as the adjacent stands (90-100 years old). There is a very good density of intermediate white pine poles in pockets that aged around 40-42 years old. Density is variable with good quality Oak and Red/White pine logs.</p>																																																									
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2	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Medium	6.2	117	51-80	N/A	<p>Old lowland hardwood stand. Heavy to dead ash and elm. Most of the cedar is scorched with thinning tops. Scattered log spruce, cedar with the occasional xlog White Pine. Fair component of balsam fir and white pine sapling recruitment in gaps. Wet.</p>																																																									
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3	4123 - Red Oak	Sawtimber Medium	45.4	104	81-110	N/A	<p>Unsure on past management as far as timeline. Stand was thinned removing mostly Aspen, red maple and some oak. Regen from harvest is featured in the sub-canopy data and is mostly red maple. North half and north finger are overall better stocked and hold the more desirable mixed pine regen. A majority of the oak in the south is open grown and large diameter. Oak is majority Red, some lower quality black/red hybrids in areas.</p>																																																									
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4	3102 - Grass	Nonstocked	2.0		Unspecified	No	<p>Old Gas well pad. Well was plugged in 2014. Delta Oil Co Inc. Well info: OK Bet Corp #B3-3. Permit # 45551</p>																																																									
5	320 - Upland Shrub	Nonstocked	7.7	0	Unspecified	No	<p>A Variance was approved on 2/16/2023 as follows: Accept the current black cherry upland shrub natural regeneration. (Due to the small size and narrowness of the stand it was determined to be not worth planting.)Currently the stand consists mostly of scattered 4 foot all shrub cherry and misc. shrub species.</p>																																																									



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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6	42290 - Natural Mixed Pine	Sapling Medium	14.6	17	1-50	N/A	Stand was harvested in 2007 under contract "Elk Salad Aspen" #54-008-06-01. Roughly 20-50 sq ft of residual Red and White Pine seed trees were left mostly in the north half. Per last inventory cycle and treatment history, stand failed to meet objectives due to heavy browse and was last coded as a U-Type. The mixed pine regeneration has pushed stand to a now forested stand. There is a good representation of the White Pine pole size class throughout (30-40 years old). Lots of varying diameters within the pine. Small lowland depression with tag alder in the central portion near stand 2.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
White Pine		10	XLog	18		White Pine		Low	< 5 feet	Seeding
Red Maple		10	Sapling	2		Jack Pine		Low	Variable	Sapling
Quaking Aspen		10	Sapling	3	17	Red Maple		Medium	5 - 10 feet	Sapling
Red Pine		20	XLog/Log	18		White Pine		High	5 - 10 feet	Sapling
Black Cherry		5	Sapling	2		Red Pine		Low	5 - 10 feet	Sapling
White Pine		45	Sapling	2	17	Black Cherry		Medium	< 5 feet	Sapling

7	4199 - Other Mixed Upland Deciduous	Sawtimber Well	135.0	102	141-170	N/A	Mostly dominated by mature Oak and overall good quality and healthy Oak. Most Beech and all the ash is dead resulting in heavy blowdown, and mortality within the central portion of the stand. Ridges and valleys run NW/SE within the northern portion of the stand with the majority of the hemlock found in these areas. Somewhat variable sub-canopy with pockets of dense striped maple, beech, ironwood with heavier pockets found in the northwest/west portions. There are some intermediate/co-dominant Oak and Sugar Maple but appear to be stunted out. Areas in the northeast contain more of a heavy thinning/light shelterwood with roughly ~60-70 sq ft of oak; some sugar maple saps recruiting well in this area.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Oak		56	Log	15	102	White Ash		Medium	< 5 feet	Seeding
Paper Birch		2	Log/Pole	10		Ironwood		Low	10 - 20 feet	Sapling
Beech		2	Log	14		Sugar Maple		Low	>20 feet	Sapling
Hemlock		5	Log/Pole	11		Striped Maple		Medium	5 - 10 feet	Tall Shrub
Bigtooth Aspen		5	Log/Pole	12		White Pine		Low	5 - 10 feet	Sapling
Ironwood		2	Pole	5		Beech		Low	5 - 10 feet	Sapling
Basswood		8	Log/Pole	10						
Red Pine		2	Log/Pole	12						
Sugar Maple		15	Log/Pole	11	102					
White Pine		3	XLog/Log	18						

8	3102 - Grass	Nonstocked	1.2		Unspecified		Old Gas well location. Online data base does not show as plugged. Delta Oil Co Inc. O.K Bet well #A4-3. Permit # 52510
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9	4123 - Red Oak	Sawtimber Well	36.2	110	111-140	N/A	Split from stand 65 to the east due to change in species composition and future management direction. Vast difference in soil type/site quality throughout the stand. White Oaks more present in the south central/southwest, with scattered aspen pockets varying from poles to logs. Variable sub canopy red maple and witch hazel densities. Most of the jack pine has fallen out of the stand. Scattered clumps of red pine and white pine. Overall the oak is healthy, with slightly smaller diameters than stand 65 to the east. Some scattered intermediate red pine, red maple and oak poles.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
White Pine		3	Log/Pole	11		White Ash		Low	< 5 feet	Sapling
Bigtooth Aspen		20	Log/Pole	11	59	Red Maple		Low	10 - 20 feet	Sapling
Red Oak		55	Log	16	110	White Pine		Low	Variable	Sapling
Red Pine		5	Log	13	86	Witch Hazel		Low	5 - 10 feet	Tall Shrub
Red Maple		10	Log/Pole	10		White Oak		Medium	< 5 feet	Seeding
White Oak		7	Log/Pole	12		Black Cherry		Low	5 - 10 feet	Sapling
						Red Oak		Medium	< 5 feet	Seeding



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
10	42290 - Natural Mixed Pine	Sawtimber Well	17.7	88	81-110	N/A	Fairly similar to stand 17 to the east. Mature Red/White Pine with pockets of good sub-canopy development of mixed pine poles and saps. Density of log/xlog pine decrease moving north and giving way to a lower quality site with brushy jack pine and white pine.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Red Maple		5	Log/Pole	13		Red Pine		
Bigtooth Aspen		5	Log/Pole	12		Jack Pine		
White Pine		38	XLog/Log	18	105	White Pine		
Red Pine		42	Log/Pole/XLog	15	88	Red Maple		
Jack Pine		5	Pole	7		Density		
Red Oak		5	Log	15		Avg. Height		
						Size		
11	6229 - Mixed lowland shrub	Nonstocked	11.2		Unspecified	No	Mostly Tag Alder with a inclusion of White Pine and Tamarack within the middle.	
12	3102 - Grass	Nonstocked	1.2		Unspecified		Jordan Development Company. State Vienna 13-3 Permit # 48293	
13	4311 - Pine, Aspen Mix	Poletimber Medium	87.1	42	51-80	N/A	True definition of upland mix. East third: mostly in and out of forested with high densities of cherry brush transitioning into areas of mixed pine poles (Jack, Red and White) with scattered large crowned Oaks throughout. Scattered quaking aspen clones as well. NE contains a large (maybe plantation) pocket of Scotch Pine. Most of these trees are smaller resulting in minimal cone production at the moment. Central and east of access road: Contains the small clone of bigtooth with more white pine and red pine sapling recruitment. Better site quality which also means more deciduous (oak and red maple) sapling densities. West of Access rd: More consistent white pine with, fair quality aspen clones as well as a pocket of white oak in the far NW. Scattered legacy trees found throughout.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Red Pine		9	Pole/Log	8		Jack Pine		
White Oak		3	Log	12		Red Maple		
Quaking Aspen		15	Pole/Sap/Log	7		Black/Red (Hybrid) Oak		
Bigtooth Aspen		8	Pole	8		Red Pine		
White Pine		15	Pole/Log	8		Serviceberry (Juneberry)		
Jack Pine		20	Pole	6	42	White Pine		
Black Cherry		15	Pole/Sapling	5		Black Cherry		
Black/Red (Hybrid) Oak		8	Log/XLog	16		White Pine		
Scotch Pine		7	Pole	7		Density		
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14	42201 - Natural White Pine, Mixed Deciduous	Poletimber Well	9.1	45	111-140	N/A	Consistent White Pine poles throughout with scattered Log and Xlog White Pine. Nice large crowned Red Oaks also scattered throughout. Cores indicate that some of the mid-level (intermediate) white pine poles are suppressed/stagnant with 7" DBH pine aged at ~38y.o and a 13" DBH pine aged at ~48 y.o. Pockets of either weevil or ice damage to the leaders at one point resulting in some poor form. White Pine diameters ranged from 7" all the way up to 37" DBH.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Red Oak		15	Log/XLog	15		White Pine		
White Pine		65	Pole/Log/XLog	9	45	Density		
Quaking Aspen		10	Pole	6		Avg. Height		
						Size		
15	310 - Herbaceous Openland	Nonstocked	60.1	0	Unspecified	4211 - Planted Red Pine	Skidder site prep spraying completed 7/26/2024 This stand was trenched for the planting of red pine in August of 2023. Roller chopping was completed on 8/09/2022.	



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16	4133 - Aspen, Mixed Pine	Poletimber Well	19.9	45	111-140	N/A	Better quality along the west edge (bigtooth) then transitions to somewhat lower quality with more jack pine and quaking. White Pine in the sub-canopy is on the higher end of medium (30-40%).																																																															
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17	42290 - Natural Mixed Pine	Sawtimber Well	33.9	97	141-170	N/A	Three tiered stand. Canopy is dominated by Log/XLog Red/White Pine with an intermediate level of red maple, aspen, birch and pole mixed pines. Scattered pockets of small pole/large sapling Red and White Pine mostly along the west edge along private. Various thinnings/cutting have taken place. 1963 removed Red/White Pine logs, 1969 - species removed Jack Pine, aspen, birch, maple, elm and some white/red pine logs and pulp, 1980- another small thinning of Red and White Pine. No planting records were found. Most of the white pine seed/sapling establishment and recruitment are found under deciduous canopies. Canopy White Pine density decreases moving south. More aspen, red maple filling in within the central portion of the stand.																																																															
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18	3102 - Grass	Nonstocked	1.3		Unspecified		Unsure on well status. Plugging is approved but no verified plug date. Delta Oil Co Inc. O.K Bet well #D3-3. Permit # 52632																																																															
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20	42260 - Natural Pine, Mixed Deciduous	Poletimber Well	16.8	60	81-110	N/A	Cutting records indicate a harvest between 1964 and 1969 removing mostly jack pine and aspen. Red/White pine seem to have been left since they are slightly larger diameters with more open grown appearance. Mostly Cherry Brush and open grown white pine east of the two-track with more true poles and better quality stems west of the two-track. Scattered red/white pine logs.																																																															
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
21	42290 - Natural Mixed Pine	Sawtimber Well	9.5	129	141-170	N/A	Nice Red and White Pine stand. Good scattered Oak component throughout. Pockets of smaller Oak logs and pole but overall large diameter, wofly characteristics. White pine contains a good representation throughout all the size classes. Small hardwood inclusion in the central portion (basswood, Sugar Maple, Ironwood). 24" DBH RP aged at ~148 years old 15" DBH RP aged at ~96 y.o - showed overall good continuous growth 27" DBH WP aged at ~129 y.o - significant growth for first 60 years. Good site quality. 8" DBH WP aged at 66 y.o. 6" DBH WP aged at 48 y.o		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Maple	5	Pole/Log	9		White Pine	Medium		Variable	Pole
Red Oak	12	Log/XLog/Pole	17		White Pine	High		< 5 feet	Seeding
Red Pine	36	Log/XLog	17	96	Red Maple	Medium		10 - 20 feet	Sapling
White Pine	45	XLog/Log/Pole	20	129	Leatherwood	Medium		< 5 feet	Tall Shrub
White Oak	2	Log/Pole	12		White Pine	Medium		Variable	Sapling
					Red Pine	Low		10 - 20 feet	Sapling
22	4311 - Pine, Aspen Mix	Sawtimber Well	77.0	59	81-110	N/A		Unsure on past history of stand. Stand pretty much contains mostly aspen and pine with pockets of fir, red maple, birch and oak. Fair to good sapling development of white pine throughout. Age on the majority of the dominant and co-dominant species is between 50 and 60. Scattered legacy Red and White Pine present with a 26 year old Red Pine cored at over 120 years old (pith of tree was rotted out). Lots of fire scars on stumps. Site quality also is variable with rolling terrain. Bigtooth dominates in the NW, Balsam poplar is found in the NE and in some pockets along the east edge, with quaking dominating the rest. Lower site quality in the far southwest with more scrubby aspen and cherry brush with open grown pine. Overall good representation of all size classes of Aspen, Red and White Pine. Small Red/White pine poles (4-5" DBH) around 23 years old. Lots of age groups within the stand.	
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density			Avg. Height
Quaking Aspen	30	Log/Pole	10	59	Black Cherry	Medium	5 - 10 feet		Sapling
Red Maple	5	Log/Pole	11		Red Pine	Low	Variable		Sapling
Balsam Fir	10	Pole/Log	9	50	White Pine	High	Variable		Sapling
Black/Red (Hybrid) Oak	2	Log	14		Serviceberry (Juneberry)	Low	10 - 20 feet		Tall Shrub
Balsam Poplar	5	Log/Pole	11		Balsam Fir	Medium	Variable		Sapling
White Pine	15	Log/Pole/XLog	16		Red Pine	Low	>20 feet		Pole
Jack Pine	5	Log/Pole	10		Hawthorn (spp.)	Low	5 - 10 feet		Tall Shrub
Paper Birch	2	Log/Pole	12		Red Maple	Low	5 - 10 feet		Sapling
Red Pine	20	XLog/Log	20	121					
Bigtooth Aspen	5	Log/Pole	11	59					
American Elm	1	Pole	8						
23	42290 - Natural Mixed Pine	Sawtimber Well	13.3	99	51-80	N/A	Stand was broken out of stand 22. Less deciduous component and more consistent pine. More scattered open grown appearance White and Red Pine with a good component of sapling and small poles underneath. Record of harvest sometime between 1964 and 1969 with mostly Jack Pine being removed. Small inclusion of aspen in the far north.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Quaking Aspen	5	Pole	7		Red Pine	Medium		Variable	Sapling
White Pine	50	Log/Pole/XLog	12	99	Black Cherry	Low		5 - 10 feet	Sapling
Red Pine	25	Log/Pole/XLog	14		White Pine	Medium		Variable	Sapling
Jack Pine	15	Pole	7	60					
Red Maple	5	Log/Pole	10						
24	6229 - Mixed lowland shrub	Nonstocked	49.8		Unspecified	No	East Branch Black River and riparian area. Vegetation is mostly tag alder.		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																										
25	429 - Mixed Upland Conifers	Poletimber Well	25.0	53	81-110	N/A	Transitional stand. Very dense subcanopy in most spots that consist of white pine and fir. Heavy browse on red maple seeds/saps. North half contains more supercanopy red/white pines then transitions to more pole jack/white pine, aspen in central with a more true lowland feel in the south with red maple, fir and birch. A lot of the aspen is either naturally falling out or being removed by beavers. The average age of the white pine was taken from the 11-12" size class. Naturally decline by the jack pine is providing a natural thinning.																																																																										
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26	3102 - Grass	Nonstocked	0.8		Unspecified	No	Opening used by campers. Mostly grass and areas of sand/dirt.																																																																										
27	330 - Low-Density Trees	Nonstocked	1.4		Unspecified	No	Grass with scattered jack pine and cherry.																																																																										
28	42120 - Planted Jack Pine	Sapling Well	19.9	26	1-50	N/A	Some areas of small poles, overall still within the sapling size class. Scattered supercanopy pine with a small inclusion of bigtooth in the SE corner of the stand. Fairly consistent.																																																																										
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29	42220 - Natural Jack Pine	Sapling Medium	38.2	4	Immature	N/A	Stand harvested under contract BRC Pine 54-007-18. Harvested and completed July 2020. Regen survey completed 10/11/2023; 8 regen plots with Jack Pine averaging 895 trees per acre stand wide. Cherry densities are variable with heavier cherry present in the south/southwest and far north. Fairly clean site																																																																										
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30	3102 - Grass	Nonstocked	1.7		Unspecified	No	Old well site. Mostly sedges and knapweed.																																																																										
31	42110 - Planted Red Pine	Poletimber Well	13.3	63	141-170	N/A	Stand was 3rd row thinned in 2009 appearing to remove all jack pine as well. Decent quality throughout, good crown ratios. Avg heights between 55-65 feet.																																																																										
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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32	4133 - Aspen, Mixed Pine	Sawtimber Well	56.3	58	111-140	N/A	Overall nice mixed stand of Aspen and Pine. Scattered large crowned Oaks. Variable site quality and soil gradients within the stand result in scattered pockets of different sub-canopy characteristics. White Pine is dominant in the sub-canopy especially underneath areas of higher density aspen stocking. Red Maple is patchy but mostly found under Oak and pine canopy. Some areas of intermediate red/white pine poles. Far east portion contains a more broken aspen/oak canopy with serviceberry, witch hazel and leatherwood in the subcanopy. Quaking aspen dominates the south and southwest portions.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
White Oak		1	XLog	19		Serviceberry (Juneberry)		Low	10 - 20 feet	Tall Shrub	
Balsam Fir		5	Pole/Sapling	5		Jack Pine		Low	5 - 10 feet	Sapling	
White Pine		10	XLog/Log/Pole	18		White Pine		High	Variable	Sapling	
Red Oak		8	XLog/Log	19		Red Pine		Low	5 - 10 feet	Sapling	
Red Pine		10	Log/Pole/XLog	15	63	Red Oak		Medium	< 5 feet	Seeding	
Bigtooth Aspen		45	Log/Pole	11	58	Black Cherry		Medium	5 - 10 feet	Sapling	
Jack Pine		3	Pole/Log	9		Balsam Fir		Medium	Variable	Sapling	
Red Maple		8	Log/Pole	11		Leatherwood		Low	5 - 10 feet	Tall Shrub	
Quaking Aspen		10	Log/Pole	10		Red Maple		High	Variable	Sapling	
						Witch Hazel		Low	5 - 10 feet	Tall Shrub	

33	6122 - Black Spruce	Poletimber Well	4.5	43	51-80	N/A	Split out from stand 112. Dominated by Black Spruce with intermixed pine and other conifers. Fairly dense/thick. High stem count but not all stems are merchantable yet. Scattered legacy white pine.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Balsam Fir		15	Pole/Sapling	5		Red Maple		Low	5 - 10 feet	Sapling	
Quaking Aspen		5	Pole	6		White Pine		Low	Variable	Sapling	
Black Spruce		50	Pole/Sapling	5	43	Tag Alder		Medium	5 - 10 feet	Tall Shrub	
Red Pine		5	Log/XLog	15		Black Spruce		Medium	Variable	Sapling	
Jack Pine		5	Pole	6		Balsam Fir		Low	Variable	Sapling	
White Pine		10	Log/Pole/XLog	10							
Tamarack		5	Sapling/Pole	4							
Red Maple		5	Pole/Sapling	7							

34	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	4.9	94	111-140	N/A	Some operable ground, but mostly low and wet.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
White Pine		5	Pole/Log/Sap	8		Red Maple		Low	Variable	Sapling	
Northern White Cedar		15	Pole/Log	9		Balsam Fir		Medium	Variable	Sapling	
Quaking Aspen		27	Pole	7		White Pine		Low	Variable	Sapling	
Balsam Fir		20	Pole/Sapling	6							
Red Maple		5	Pole/Log/Sap	8							
Black Spruce		28	Pole	7	94						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																								
35	4130 - Aspen	Poletimber Well	21.8	59	111-140	N/A	Pretty consistent. Small quaking aspen clone in the NE. Majority is pole sized but there are pockets of logs throughout. Beaver activity is present along the east edge.																																																								
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37	6127 - Lowland Pine	Poletimber Well	2.1	43	81-110	N/A	Split out of stand 13 due to change in cover type. This stand is a mix of lowland white pine and a black spruce stand. Spongy moss mats with most trees growing on mounds. Some scattered White and Red Pine Xlogs/legacy trees. Appears to be used frequently by wildlife.																																																								
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38	42220 - Natural Jack Pine	Poletimber Medium	34.6	45	51-80	N/A	Records indicate this stand was harvested 1977. Cores show that the age is fairly close to the cutting record which puts the age between 40-46 years old. Stand is starting to fall apart with variable stocking and diameters. The far northeast finger contains more open grown red/jack pine; more upland shrub appearance. Scattered mature red pines with a pocket in the north as well as one in the south east.																																																								
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39	4191 - Mixed Upland Deciduous with Conifer	Poletimber Medium	6.9	35	51-80	N/A	Coded as non-forested last entry. Stand has grown into a forested stand. Fairly brushy stand consisting of mostly poles with scattered pockets of log red maple, oak and aspen with pockets of mixed saplings. Diverse stand with varying density. Heavy use by wildlife.																																																								
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
40	6124 - Lowland Spruce-Fir	Poletimber Well	52.6	89	111-140	N/A	Somewhat variable stand. Stocking is patchy with some blowdown and thick fir/spruce saplings regen. Some scattered Xlogs of cedar and spruce. Slight upland ridges/islands present throughout. Multiple springs found along the west edge near stands 22 and 35. Heavy use by wildlife. Beaver activity present. Aspen is overmature.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Paper Birch		5	Log/Pole	10		Tamarack		
Balsam Fir		25	Pole/Log	9		Black Spruce		
Quaking Aspen		15	Log/Pole	12		Tag Alder		
White Pine		5	Log/Pole/XLog	12		White Pine		
Northern White Cedar		25	Log/Pole	10		Balsam Fir		
Black Spruce		25	Pole/Log	9	89			
41	42260 - Natural Pine, Mixed Deciduous	Sawtimber Medium	15.8	103	81-110	N/A	Somewhat broken mixed pine stand. Unsure on history. Stand is mostly made up of open grown, limby Red and White Pine with scattered large crowned Oaks with intermixed pockets of Aspen and Red Maple. Scattered White Pine poles in the subcanopy and areas of good jack pine, red pine and white pine sapling recruitment. Diameters in the Red Pine vary from 13" up to 27" and with some Oak and White Pine up over 20" DBH. Heavily used by wildlife. MC8, O7, MC2, A4. Highly variable densities. Portion in the NE is transitioning to a Mixed cherry brush, white pine opening.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Sugar Maple		2	Pole/Log	9		Black/Red (Hybrid) Oak		
Red Pine		28	XLog/Log	19	103	White Pine		
White Oak		5	Log/Pole/XLog	15		White Pine		
Bigtooth Aspen		5	Pole/Log	9	56	Red Pine		
Jack Pine		5	Pole	8		Jack Pine		
White Pine		27	Log/Pole/XLog	13		Black Cherry		
Red Maple		13	Pole/Log	9	56	Red Maple		
Black Cherry		5	Pole	7				
Black/Red (Hybrid) Oak		5	Log/XLog/Pole	17				
Quaking Aspen		5	Pole	8	56			
42	42120 - Planted Jack Pine	Sapling Well	8.2	27	1-50	N/A	Stand appears to have planted rows, but does appear that there is some natural origin jack pine that is intermixed. Thick.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Jack Pine		95	Sapling	2	27	Black/Red (Hybrid) Oak		
Red Pine		5	Log/XLog	16		Black Cherry		
						White Pine		
43	3102 - Grass	Nonstocked	11.2		Unspecified	No	Heavy Sweet fern density. Scattered pockets of Red Pine, Jack Pine and white pine with cherry.	
Sub-Canopy Species		Density	Avg. Height	Size				
Red Pine		Low	>20 feet	Log				
Black Cherry		Medium	5 - 10 feet	Sapling				
Jack Pine		Medium	Variable	Sapling				
White Pine		Low	Variable	Sapling				
44	42120 - Planted Jack Pine	Sapling Well	14.0	9	Immature	N/A	Trenched 09/15/2011, Planted 05/11/2013, Re-Planted 04/24/2015 with 542/ac, total stocking after replant was 928/ac 3-0 Wyman JP seedlings. Overall fairly dense. Good establishment of cherry and oak. Scattered red pine.	
Canopy Species		% Cover	Size Class	DBH	Age			
Red Pine		1	Sapling/Pole	4				
Jack Pine		85	Sapling	1	9			
Black Cherry		7	Sapling/Pole	2				
Black/Red (Hybrid) Oak		7	Sapling/Pole	2				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																								
45	42220 - Natural Jack Pine	Sapling Medium	10.4	4	Immature	N/A	Originally part of stand 85. Split out due to composition and future management. Stand was harvested under contract 54-032-16. This unit of the sale was not a whole tree operation resulting in minimal scarification for jack pine establishment. A qualitative regen survey was completed and resulted in a failed survey for a natural jack pine objective. Some scattered jack pine in the north half but most of the jack pine establishment is along and south of Culver Trail. To see regen survey data see stand 85.																																																								
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47	3303 - Mixed Low Density Trees	Nonstocked	12.4		Unspecified	No	Similar to stand 60 as far as history. Old timber sale notes and FTP's indicate the stand was harvested in the late 80's with the plan to scarify and seed to jack pine (C54-455) in 1988. This seeding failed and resulted in another FTP in 1999 (C54-712) to trench and plant to Jack Pine in which that was not done either. Variable age cohorts and diameters within this stand.																																																								
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48	4131 - Aspen, Oak	Sawtimber Well	11.3	55	141-170	N/A	Heavier to Red Pine and Oak in the far south and north. Mostly log aspen and red maple in the central portion. Aspen diameters within the pine pockets are smaller, more true poles. Good quality aspen and oak logs.																																																								
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49	3102 - Grass	Nonstocked	1.0		Unspecified		Active Antrim Gas Well. State Vienna A4-2. Permit # 53023.																																																								
51	42110 - Planted Red Pine	Poletimber Well	21.5	63	141-170	N/A	Planted 1960. Stand was 3rd row thinned in 2009. Some varying densities, possibly seedling mortality when planted? No stumps observed in the open pockets. Better quality and form in areas with better stocking. East 2/3 of stand is much better quality than west 1/3rd. Fair red pine establishment in areas. Cores indicated a good response from thinning in 2009.																																																								
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52	42220 - Natural Jack Pine	Poletimber Well	4.2	42	81-110	N/A	Overall fair quality. Some areas of lower density. Scattered Red Pine.																																																								
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53	4191 - Mixed Upland Deciduous with Conifer	Poletimber Medium	7.3	34	51-80	N/A	More forested in the north half and transitions to more brushy, open in the south half. Mix of quaking and bigtooth clones. Far west edge appears to have planted red/white pine. North, east and south edges transition down into low ground. Far south also does have planted apple trees with old chicken wire/fences around them.																																																																													
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54	4130 - Aspen	Sapling Well	13.5	17	Immature	N/A	Harvested in 2007 "Elk Salad Aspen" #54-008-06-01. Heavy browse on anything under 6 feet. Majority of the pine regen is within the skid trails, or edges. Lots of elk damage to the Aspen, Red Maple bark (chewing). Some lower density pockets of mostly oak and cherry brush. Scattered supercanopy Oak and Red/White Pines. No concerns with growth at this time. On the cusp of pole.																																																																													
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55	4131 - Aspen, Oak	Sawtimber Well	14.0	58	111-140	N/A	Dense aspen clone in the south that transitions into more open grown oak, pine in the north and far east. Aspen pocket ba's are ~150-180 sq ft, with the oak BA's around 60-70 sq ft.																																																																													
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56	3102 - Grass	Nonstocked	0.9		Unspecified	No	Old gas well site. Well was plugged in 2014. Well data: Permit # 47919, well # D4-2 Delta Oil Co Inc.																																																																													
57	622 - Lowland Shrub	Nonstocked	10.4		Unspecified	No	East Branch of the Black River. East edge contains the river with mostly tag alder and willow along the edge. Does contain an old Fisheries 'Sand Trap' where sediment was removed from the river and placed along the bank.																																																																													



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58	42290 - Natural Mixed Pine	Sawtimber Well	5.6	88	81-110	N/A	Nice stand of mixed Red and White Pine. Scattered Large crowned Red Oaks. Legacy pines present. Beavers have been slowly reducing the aspen. Fair amount of red and white pine poles in the north. Appears to have a small portion of planted Red and White pine in the north along the powerline.																																																													
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59	3104 - Degraded	Nonstocked	1.2		Unspecified	No	Contains foundation from old home and pole barn. Scattered legacy pine with some open grown Oak.																																																													
60	3303 - Mixed Low Density Trees	Nonstocked	10.6	0	Unspecified	No	Odd site. Old timber sale notes and FTP's indicate the stand was harvested in the late 80's with the plan to scarify and seed to jack pine (C54-455) in 1988. This seeding failed and resulted in another FTP in 1999 (C54-712) to trench and plant to Jack Pine in which that was not done either. Currently the stand is made up of various pockets of Oak, Red Maple, White Pine, Jack Pine and aspen. Borderline forested stand; should have been trenched with the adjacent stands. Variable age cohorts within this stand.																																																													
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61	42120 - Planted Jack Pine	Poletimber Well	12.1	74	81-110	N/A	Declining Jack Pine and scattered Red Pine. Stand is currently under sale Roaming Elk Pine 54-020-23.																																																													
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62	330 - Low-Density Trees	Nonstocked	22.6	0	Unspecified	4211 - Planted Red Pine	Trenching was completed on September 27, 2023.																																																													
63	330 - Low-Density Trees	Nonstocked	48.8	0	Unspecified	4211 - Planted Red Pine	Trenching was completed in September of 2023.																																																													
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64	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	27.6	88	141-170	N/A	Tamarack better represented in the south. Scattered pockets of Cedar and spruce. Some pockets of Xlog cedar. The small sliver running north contains mostly cedar with a clean sub-canopy. Lots of standing water pockets and blowdown in some areas. Canopy gaps yielding most of the fir and alder development. Stocking variable.																																																																														
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65	4199 - Other Mixed Upland Deciduous	Sawtimber Well	52.2	110	81-110	N/A	Split from stand 9 due to different species composition and management direction. Very high quality Red Oak/Sugar Maple stand. Oak is very healthy, large crowned and well established. Overall sub-canopy is clean with scattered pockets of ironwood/red maple and witch hazel. Some rolling terrain in the north. Although diameters are higher on the Oak and Sugar Maple, there are plenty of crop trees present within the 12-14" range. Possibly old pastureland? Some wet wood/black decay on the seams of the larger Oak stumps. Scattered standing dead ash along with a handful of beech that appears to be healthy. Inclusions of Red/White pine along the east and south edges. Unsure on past management; no old stumps observed. It is possible that this stand was just left to naturally mature. Sugar maple densities are concentrated to the east and northeast.																																																																														
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66	4310 - Pine, Oak Mix	Sawtimber Well	26.1	74	111-140	N/A	Stand is roughly half pine and half deciduous. Legacy Red Pine and White Pine present mostly in the NW and the SE portions. Overall a north facing aspect, with ridges and valleys going North/South. Oak is high quality especially on the ridge tops. Scattered small pole/large sap Oak are present throughout the red maple regen. White Oaks mostly present in the far east. Varying site quality. Red and White Pine regen is patchy but where present it contains good densities ranging from 3ft to 20ft. Cannot find planting records for this stand (SW 1/4 of NW 1/4). Small timber sale in 77 removing Jack/Red/White Pine, Oak, Aspen and various other hardwoods.																																																																														
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67	3102 - Grass	Nonstocked	1.0		Unspecified		Active Antrim gas well. State Vienna B1-1. Permit #53024																																																																														



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
68	4130 - Aspen	Poletimber Well	4.2	55	81-110	N/A	Mature quaking aspen in the east half. Transitions to more broken red/white pine and oak moving west.
		Canopy Species	% Cover	Size Class	DBH	Age	
		Quaking Aspen	70	Pole/Log	9	55	
		White Pine	5	Log/Pole/XLog	15		
		Black Cherry	5	Pole	8		
		Red Maple	5	Pole/Log	8		
		Northern Pin Oak	5	Log	16		
		Jack Pine	5	Log	11		
		Red Pine	5	Log/Pole	14		
		Sub-Canopy Species	Density	Avg. Height	Size		
		Black Cherry	Medium	5 - 10 feet	Sapling		
		Hawthorn (spp.)	Low	5 - 10 feet	Tall Shrub		
		Quaking Aspen	Low	5 - 10 feet	Sapling		
		White Pine	Low	Variable	Sapling		
69	4134 - Aspen, Spruce/Fir	Poletimber Well	10.0	63	111-140	N/A	Very nice mixed White Pine, Balsam Fir sub-canopy. Some pockets of pure Balsam fir scattered, mostly in the south. Overall aspen diameters slightly smaller in the north. Scattered legacy trees present (30" +).
		Canopy Species	% Cover	Size Class	DBH	Age	
		Bigtooth Aspen	35	Log/Pole	10	63	
		Red Pine	5	Log/Pole/XLog	16		
		Quaking Aspen	20	Pole	6		
		Red Oak	4	Log/Pole/XLog	15		
		Black Spruce	2	Pole	6		
		Balsam Fir	24	Pole	7		
		Red Maple	5	Pole/Log	9		
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		Red Maple	Medium	< 5 feet	Seeding		
		Balsam Fir	High	Variable	Sapling		
		Black Cherry	Medium	5 - 10 feet	Sapling		
		White Pine	High	10 - 20 feet	Sapling		
71	3102 - Grass	Nonstocked	1.4		Unspecified	No	Possible management at one time. Heavy scotch pine establishment around the edges.
		Sub-Canopy Species	Density	Avg. Height	Size		
		White Oak	Low	5 - 10 feet	Sapling		
		Hawthorn (spp.)	Low	5 - 10 feet	Tall Shrub		
		Scotch Pine	Medium	>20 feet	Log		
		Apple (spp.)	Low	10 - 20 feet	Sapling		
72	3205 - Mixed Upland Shrub	Nonstocked	2.5		Unspecified	No	Mostly grass, open grown Jack/White Pine and scattered Cherry Brush.
73	330 - Low-Density Trees	Nonstocked	14.7	0	Unspecified	4211 - Planted Red Pine	Stand harvested in 2020. Trenching was completed late Sept 2023. Heavy to cherry brush and some scattered Jack Pine. Rolling topo.
		Sub-Canopy Species	Density	Avg. Height	Size		
		Jack Pine	Low	< 5 feet	Sapling		
		Black Cherry	Medium	5 - 10 feet	Sapling		
74	3102 - Grass	Nonstocked	1.1		Unspecified		Active Antrim gas well. State Vienna Permit # 53022 D1-1. VCP Michigan, LLC.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																		
75	42120 - Planted Jack Pine	Poletimber Well	11.4	37	51-80	N/A	Just reaching the pole size class. Stem density is variable.																																																		
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76	42220 - Natural Jack Pine	Poletimber Medium	23.5	38	51-80	N/A	Harvested in 1986 appearing to leave all red and white pine. Jack pine is patchy and variable in size, with areas small poles/saps to some open grown log sized trees. Heavy brushy cherry sub-canopy. Jack pine looks pretty rough. 50-75% canopy due to the large U-Type appearance in the northeast portion adjacent to stand 85.																																																		
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77	42220 - Natural Jack Pine	Poletimber Well	13.7	56	51-80	N/A	Jack pine is beginning to due out. Looks like some of it contains some budworm damage. Subcanopy is fairly patchy, with higher sub-canopy stocking in the west. Most of the Red Pine is found south of the two-track. Scattered legacy pine present in the south.																																																		
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78	42110 - Planted Red Pine	Poletimber Well	20.0	64	111-140	N/A	Thinned in 2017 along with a species removal of Jack Pine. Sale number 54-010-16. Overall quality is fair with variable densities. Better quality in east half.																																																		
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79	3102 - Grass	Nonstocked	1.0		Unspecified		Producing Gas well. VCP Michigan, LLC.State Vienna #B3-1. Permit #53020																																																		
80	42120 - Planted Jack Pine	Sapling Well	16.5	30	1-50	N/A	Stand is on cusp of entering pole size. Still a lot of sub-merchantable stems throughout. Scattered pockets of Oak saps.																																																		
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
82	42110 - Planted Red Pine	Sawtimber Well	85.9	86	111-140	N/A	Stand thinned in 2017 under sale 54-010-16. Fairly consistent overall. West third/half (~30 acres) contains the majority of the subcanopy development along with the deciduous component (Oak, Red Maple and Aspen). Small island in the south central was excluded from past harvest due to goshawk nest. Some pockets of more scrubby red pine mostly within the central third. Overall good quality red pine. White pine is more prevalent in the southwest.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Pine	93	Log	14	86	Red Maple	Low		5 - 10 feet	Sapling
White Pine	3	Log/Pole/XLog	16		White Pine	Low		Variable	Sapling
Black/Red (Hybrid) Oak	2	XLog/Log	18		Red Pine	Medium		5 - 10 feet	Sapling
Quaking Aspen	1	Log	12		Black Cherry	Low		5 - 10 feet	Sapling
Red Maple	1	Log/Pole	11						
83	42250 - Pine, Oak	Poletimber Medium	14.1	15	51-80	N/A	Harvested in 2009 under contract 'Shingle Shell Pine' 54-009-06. It was cut 4" and up leaving scattered Log Oak and Red/White Pine. Stand contains size classes from sap up to Xlog of most species. Transitions in and out of sapling Oak/Pine regen into pockets of Xlog White/Pin Oak and Pine. Good stand for wildlife. Fairly good establishment and regeneration of white pine throughout. A small lowland inclusion of Tamarack and Alder is found along the north edge. Borderline MC 5/6.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
White Pine	18	Pole/Sap/Log	5		White Pine	High		< 5 feet	Seeding
White Oak	10	Log/Pole/Sap	11		Jack Pine	High		< 5 feet	Seeding
Bigtooth Aspen	5	Pole/Log/Sap	6		Northern Pin Oak	Medium		< 5 feet	Sapling
Northern Pin Oak	20	Sapling/Pole/Log	4		Black Cherry	High		5 - 10 feet	Sapling
Balsam Fir	2	Pole/Sapling	4		White Oak	Medium	< 5 feet	Sapling	
Red Pine	10	Log/Pole	15						
Jack Pine	35	Pole	5	15					
84	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	39.9	56	141-170	N/A	A true mixed stand. Larger conifer component in the north half transitions to more of an Aspen/Oak mix in the central and south. Site quality varies with the best quality in the central portion along the East/West two-track. Far southern portion contains an upland brush feel with cherry brush, large crowned oaks and scattered open grown white pine and jack pine with hawthorn and serviceberry. Scattered pockets of Xlog/Log Oak throughout. Stand is borderline log. Far northeast contains nice white oak establishment and a small pocket of planted Red Pine.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Maple	14	Pole/Log	9	56	Black/Red (Hybrid) Oak	Medium		5 - 10 feet	Sapling
Sugar Maple	2	Pole/Log	9		Black Cherry	Medium		5 - 10 feet	Sapling
Black/Red (Hybrid) Oak	10	Log/Pole	16		Red Pine	Low		Variable	Sapling
Basswood	2	Log	13		Hawthorn (spp.)	Low		5 - 10 feet	Tall Shrub
White Oak	10	Log/Pole	15		White Oak	Medium		5 - 10 feet	Sapling
Paper Birch	2	Log	12		Red Maple	Low		5 - 10 feet	Sapling
Red Pine	10	Log/XLog	17	104	White Pine	Medium		10 - 20 feet	Pole
Bigtooth Aspen	14	Pole/Log	9		White Pine	Medium		Variable	Sapling
Jack Pine	5	Pole	8		Serviceberry (Juneberry)	Low		10 - 20 feet	Tall Shrub
White Pine	10	Log/Pole/XLog	13		Jack Pine	Low		5 - 10 feet	Sapling
Black Cherry	5	Pole	7						
Quaking Aspen	14	Pole/Log	9	56					
85	4117 - Mixed N. Hardwood - Pine	Sapling Poor	34.0	4	Immature	N/A	Stand was harvested under contract 54-032-16. This unit of the sale was not a whole tree operation resulting in minimal scarification for jack pine establishment. A qualitative regen survey was completed and resulted in a failed survey for a natural jack pine objective. Some scattered jack pine in the north half but most of the jack pine establishment is along and south of Culver Trail. The better stocked area of natural Jack Pine was split into it's own stand (45) due to future management.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
White Pine	1	Sapling	1		Sweet Fern	Full		< 5 feet	Tall Shrub
Red Pine	2	Sapling	1						
Jack Pine	30	Sapling	1	4					
Black Cherry	67	Sapling	1	4					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
86	500 - Water	Nonstocked	3.4		Unspecified	No	East Town Corner Lake.
87	330 - Low-Density Trees	Nonstocked	29.0	0	Unspecified	4211 - Planted Red Pine	This stand was trenched for the planting of red pine in September of 2023. Sale complete 01/29/2021. Stand 87 (PU1), 99 (PU 2), 85 (PU3) clearcut using 4' top lopping standard in place of chipping requirement due to lack of chip market. 87/PU1, 99/PU2 replant red pine. 85/PU3 is natural regen goal. Sale: 622 3-spot 540321601.
88	3102 - Grass	Nonstocked	1.5		Unspecified		Producing Gas well. VCP Michigan, LLC State Vienna #C4-1. Permit # 53019
89	6233 - Wet Meadow	Nonstocked	11.9		Unspecified	No	Contains Van Hetton Creek. Mostly grasses with mixed shrubs on the edges.
		Sub-Canopy Species		Density	Avg. Height	Size	
		Mixed Sedges/Grasses		Full	Unspecified	Non-Wood	
91	4199 - Other Mixed Upland Deciduous	Sawtimber Well	65.0	104	111-140	N/A	North half of stand contains better White Oak and mixed pine density with better sub-canopy white pine development. Moving south, stand transitions to more mixed aspen, oak in canopy with red maple sap/poles underneath - losing the white white understory. Pockets of oak poles here and there. Some large diameter, wofly Oaks along with legacy pine. Overall health of Oak and Aspen very good.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Pine		5	Log	15		Red Oak	
White Pine		10	Log/Pole/XLog	16		Serviceberry (Juneberry)	
Bigtooth Aspen		15	Pole/Log	9		White Pine	
Red Oak		40	Log/Pole	13	104	Red Pine	
Basswood		1	Log/Pole	11		Witch Hazel	
Sugar Maple		1	Log	12		Leatherwood	
White Oak		8	Log/Pole	12		Red Maple	
Red Maple		20	Pole/Log	9		Hawthorn (spp.)	
92	4122 - Oak, Pine	Sapling Well	3.9	15	1-50	N/A	Stand was cut in 2009 "Shingle Shell Pine" #54-009-06-01. Very impressive nature pine and Oak regeneration. Scattered Log Black/Red Oak, White Oak and Red Pine. No concerns with stand.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Black/Red (Hybrid) Oak		50	Sapling	2	15	Jack Pine	
Red Pine		12	Sapling/Pole/Log	4		Black/Red (Hybrid) Oak	
Jack Pine		18	Sapling/Pole	1			
Black Cherry		5	Sapling/Pole	2			
Bigtooth Aspen		5	Sapling/Pole	3			
White Oak		10	Sapling/Pole/Log	4			
94	3102 - Grass	Nonstocked	1.2		Unspecified		Gas Well. Plugging has been approved but there is no date set. Delta Oil Co Inc. - State Vienna # C3-12. Permit # 47772



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																					
95	42220 - Natural Jack Pine	Poletimber Well	11.3	55	51-80	N/A	Natural Jack Pine stand with portions of planted Red pine that extended from the adjacent compartment (planted 1938). Good Oak regeneration under the declining Jack pine.																																																																					
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97	42110 - Planted Red Pine	Poletimber Well	14.3	64	141-170	N/A	Planted 1960. 3rd row Thinned in 2017 under contract 54-010-16 Goshattack Red Pine. All Jack Pine was removed. Variability in stocking levels due to jack pine removal. Stand may have had issues at time of establishment with seedling mortality based on areas of missing trees within the rows. Stand is almost Log, but still overall pole. Overall fair quality. Needs some time to develop.																																																																					
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98	42110 - Planted Red Pine	Sawtimber Well	17.3	86	141-170	N/A	Stand was thinned under contract 54-010-16. Fairly unique stand with a good establishment of sub-canopy white and red pine. Large trees present throughout (Greater than 20" DBH). Nice mixed Oak component as well. White Pine and Red Pine regen have good representation from <5 ft to 20 ft and are recruiting well in canopy gaps. Cores from Red Pine indicate good site quality but even after the thinning the growth response was minimal.																																																																					
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99	310 - Herbaceous Openland	Nonstocked	40.1	0	Unspecified	4211 - Planted Red Pine	Skidder site prep spraying was completed 7/25/2024. This stand was trenched for the planting of red pine in September of 2023. Sale complete 01/29/2021. Stand 87 (PU1), 99 (PU 2), 85 (PU3) clearcut using 4' top lopping standard in place of chipping requirement due to lack of chip market. 87/PU1, 99/PU2 replant red pine. 85/PU3 is natural regen goal. Sale: 622 3-spot 540321601.																																																																					
100	3102 - Grass	Nonstocked	1.7		Unspecified	No	Unsure on managed or not. Used as a campsite.																																																																					
102	42220 - Natural Jack Pine	Poletimber Well	86.8	54	81-110	N/A	Overall fair. Heavier deciduous component (oak, aspen) in the north and east portions. Good Balsam fir component in the southeast corner. Diameters and density variable with portions beginning to decline resulting in mixed conifer, cherry and oak regen. Small inclusion of white pine Xlogs in the east north of stand 108. Jack pine is mostly poles with scattered small logs throughout. No planting records found. Historic timber records show this area harvested between 1970 & 1975.																																																																					
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103	42110 - Planted Red Pine	Sawtimber Well	50.2	86	111-140	N/A	Majority of the sub-canopy pine is found in the portion west of 622. This portion also contains more of a variable row/arked stand; rows are very difficult to distinguish. Portions east of 622 contain less sub-canopy development and overall have more consistent stocking and sizes. As a stand overall it contains good quality Red Pine, some pockets contain noticeable sweeps and crooks in the first 12 feet of the logs.																																																																						
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104	3102 - Grass	Nonstocked	1.1		Unspecified		Gas Well. Delta Oil Co Inc. State Vienna # B4-12. Permit # 47773																																																																						
105	42220 - Natural Jack Pine	Poletimber Well	16.1	53	51-80	N/A	Declining Jack Pine. Sub-canopy stocking is patchy but is fairly consistent with black cherry. Aspen is fair but is showing signs of stress; cankers, poor form, etc. Scattered Jack Pine logs.																																																																						
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106	3102 - Grass	Nonstocked	1.3		Unspecified	No	Wildlife opening.																																																																						
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109	4311 - Pine, Aspen Mix	Poletimber Well	28.6	52	111-140	N/A	Broken aspen, mixed conifer stand. Does contain some drainages that appear to hold water seasonally. Transitions in and out of aspen clones, White Pine, Jack Pine and Black Spruce pockets. Areas of good pine/conifer establishment in the sub canopy. Aspen is in rough shape, with Jack Pine declining in areas. Appears to have heavy use by wildlife for travel corridors.																																																																						
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110	6229 - Mixed lowland shrub	Nonstocked	1.8		Unspecified	No	Wet Meadow/Lowland Shrub. Some open areas of marsh grass and pockets of alder, willow and dogwood.																																																																						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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111 3102 - Grass Nonstocked 1.1 Unspecified Active gas well. Delta Oil Co Inc. State Vienna Well # D4-12. Permit # 47771.

112 42290 - Natural Mixed Pine Sawtimber Poor 8.5 98 81-110 N/A Stand could either be a borderline MC7/8 or a MC3/6. Essentially looks like an variable shelterwood. Featured stand is the overstory supercanopy White and Red Pines. Somewhat variable understory, but has a good component of Red/White Pine poles within the intermediate canopy class. The age of the Red Pine in the subcanopy (47 years old) is a placeholder to show the two-aged system. There is potential for a true un-even aged stand based on the younger cohort of conifer saplings. Old fire scars on pine stumps. Unsure on past management.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	50	XLog/Log/Pole	20	98	Black Cherry	Low	5 - 10 feet	Sapling
Red Pine	15	XLog/Log	18	93	White Pine	Medium	Variable	Sapling
Red Maple	5	Pole	7		Red Pine	Medium	>20 feet	Pole
Quaking Aspen	10	Pole	6		Red Pine	Low	5 - 10 feet	Sapling
Black Spruce	5	Pole	8		Black Spruce	Medium	Variable	Sapling
Balsam Fir	15	Pole/Sapling	6		Balsam Fir	Low	Variable	Sapling
					Red Maple	Low	10 - 20 feet	Sapling
					Quaking Aspen	Low	10 - 20 feet	Sapling

113 3102 - Grass Nonstocked 1.5 Unspecified Managed Opening Wildlife Opening. Scattered Red Pine with Xlog White Oak.

114 6120 - Lowland Cedar Sawtimber Well 12.6 117 201+ N/A Nice Cedar/clean cub-canopy in the north. Transitions to heavy mixed conifer sub-canopy and less stocked overstory as you move south/southeast. Signs of heavy wildlife use.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	3	Pole	7		Black Spruce	Medium	Variable	Sapling
Black Spruce	10	Log/Pole	10		Balsam Fir	Medium	5 - 10 feet	Sapling
Northern White Cedar	77	Log/Pole/XLog	12	117	White Pine	Low	< 5 feet	Sapling
Red Maple	3	Log/Pole	11					
White Pine	3	Log	14					
Paper Birch	4	Pole/Log	9					

115 42110 - Planted Red Pine Sawtimber Well 10.5 74 111-140 N/A Mostly Red Pine with the occasional white pine. Jack Pine has mostly stunted out. Planted in 1950 (Red and Jack Pine at 400 TPA each).

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	60	Log/Pole	12	74	Jack Pine	Low	5 - 10 feet	Sapling
Pin Cherry	2	Pole/Sapling	4		Black Cherry	Low	5 - 10 feet	Sapling
White Pine	5	Pole/Log/Sap	8		White Pine	Medium	Variable	Sapling
Jack Pine	33	Pole	7	74				