



Compartment Review Presentation

Atlanta Forest Management Unit

Compartment 54117

Entry Year 2021

Acreage: 1,572

County Presque Isle

Management Area: Cheboygan Lake Plain

Revision Date: 2019-04-01

Stand Examiner: Joyanne Mittig

Legal Description:

T33N R02E Sec 4, 5, 8 and 9

Identified Planning Goals:

The main goal in this compartment is to conduct multiple resource management for the good of the citizens of the State of Michigan.

Soil and topography:

The topography of the east portion of the compartment is mainly low ground with swamp conifers while the west portion is rolling hills with aspen, northern hardwood and pine cover types.

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

The compartment has a few private parcels scattered through out. The compartment has some recreational use by hunters & snowmobiles.

Unique Natural Features:

Muskeg.

Archeological, Historical, and Cultural Features:

None known at this time.

Special Management Designations or Considerations:

Watershed and Fisheries Considerations:

No concerns at this time.

Wildlife Habitat Considerations:

This compartment is an excellent opportunity to manage for wildlife. It is part of a multiple compartment, large scale block of public land providing contiguous wildlife pathways that are necessary for many of our large game animals such as black bear. There is also a large wetland corridor which is an excellent pathway for wildlife travel. Habitat components of cedar and wetland complexes as well as aspen provide food and cover for multiple species at a variety of age classes. We are working to maintain winter cover areas as well as keep a good age rotation of aspen in this compartment as well as adjacent compartments. Species which benefit from our management include white-tailed deer, black bear, ruffed grouse, woodcock, and many other game and non-game species.

This compartment contains a variety of habitat types suitable for many wildlife species. The compartment includes Tomahawk creek and large lowland complex including bog and mixed cedar swamp including a hemlock component. These lowlands support various waterfowl, reptiles, amphibians, and their predators including raccoon, bobcat, mink, Bald Eagle, and Great Blue Heron. Furbearers including beaver, mink, muskrat, black bear, bobcat, and coyote use the lowlands as corridors as well as year-round habitat. Many bird species stand to benefit from the juxtaposition of lowland and upland habitats present in the compartment. These include common yellowthroat, yellow-rumped warbler, gray catbird, red-eyed vireo, American Goldfinch, Downy/Hairy/Pileated Woodpeckers, white-throated sparrow, hermit thrush, red-breasted nuthatch, ruffed grouse, bald eagle, and American woodcock.

Mineral Resource and Development Concerns and/or Restrictions

Sections 4-5 & 8-9, T33N-R2E, Presque Isle County

The nearest active sand/gravel pit is located three miles to the north. There might be some sand & gravel potential in sections 5 & 8 on the uplands. Otherwise, much of the compartment is covered by wetlands. The compartment is within the Niagaran reef trend and has seen some exploration and production. Additional drilling is possible. Most of the leasing and development has focused on the upland areas. Wetland areas would limit surface development, so any future development may require directional drilling, which is more expensive. Depleted reef reservoirs can make very good underground gas storage targets. There is no known metallic mineral potential in this part of the state. 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:

This compartment is accessed from M-33 and several County Roads: 5 Mile Hwy and Poplar Hwy. There are few two tracks for traversing the area.

Survey Needs:

Survey needed for the N1/2 of the N1/2 of section 8.

Recreational Facilities and Opportunities:

There are many opportunities for hunting and wildlife viewing in the area.

Fire Protection:

Fire response to the compartment will be covered by the Onaway DNR office as well as the Onaway Fire Department.

Additional Compartment Information:

The following reports from the Inventory are attached:

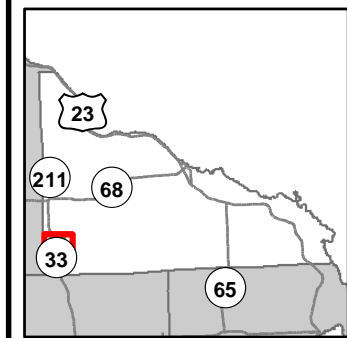
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

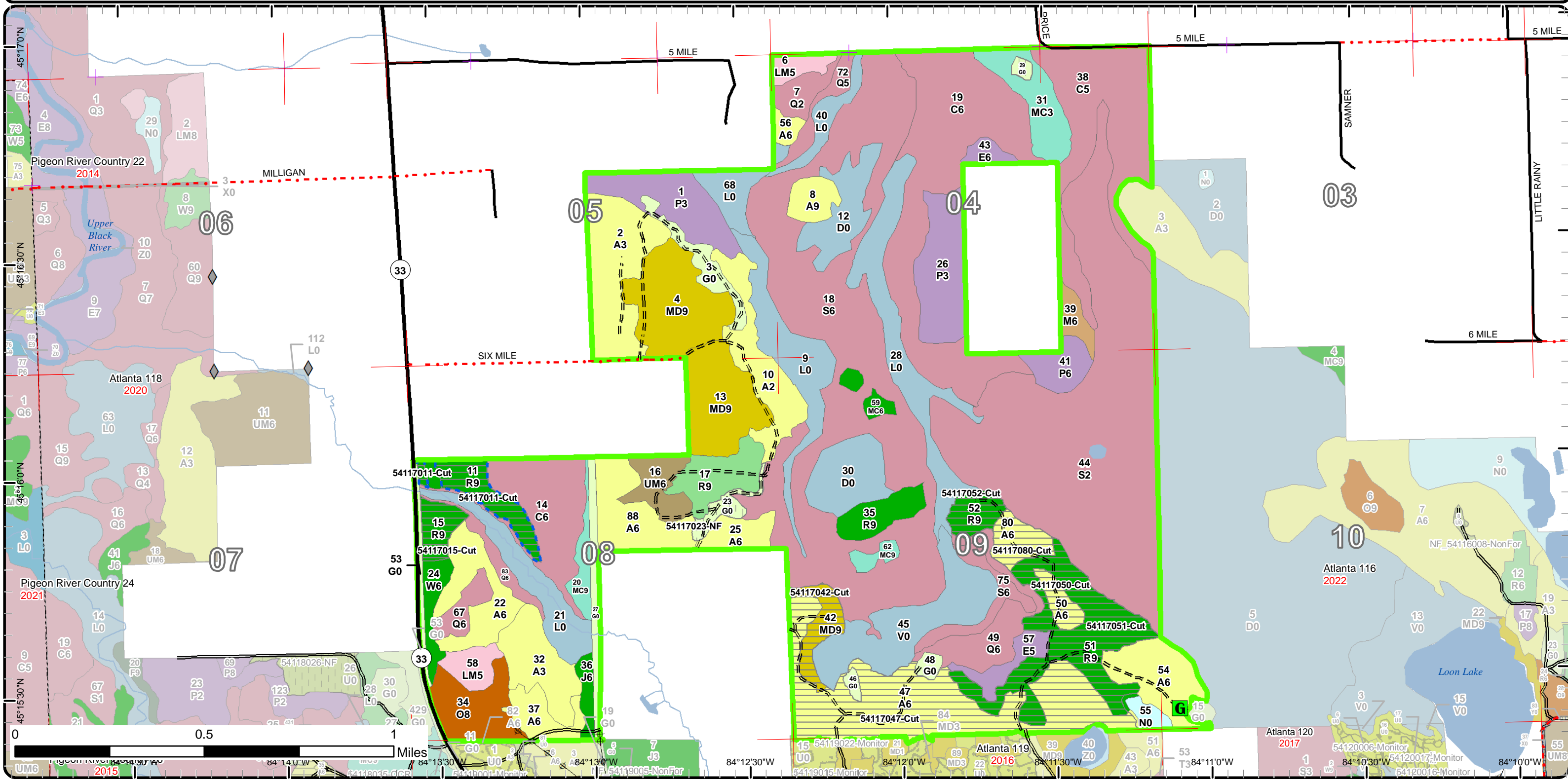
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 117
 T33N, R02E, Sec. 4, 5, 8, 9
 County: Presque Isle
 Unit: Atlanta
 Mgmt Area: Cheboygan Lake Plain
 YOE: 2021
 Acres: 1,572 GIS Calculated
 Examiner: Joyanne Mittig
 Map Revised: 10/10/2019
 Map Phase: Post-Review

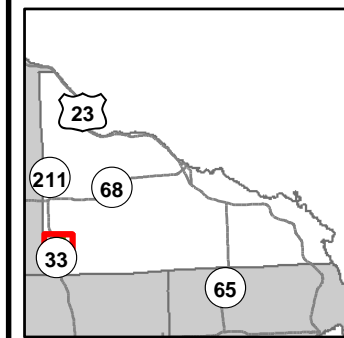


- Miris Corners
- + Remonumented Section Corners
- ◆ Field Grade Corners
- Counties
- == DNR - Secondary Forest Road
- == DNR - Forest Access Route
- Federal / State Highway
- Federal / State / County - Paved Road
- - - County - Gravel Road
- G** Gate
- Lake/Pond
- Perennial River
- Lakes and Rivers All
- Pipeline
- ⊕ Powerline
- Compartment Boundary
- Treatments with Site Conditions
- Clearcut (w/Reserves)
- Opening Maintenance
- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 310 - Herbaceous Openland
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- Lakes

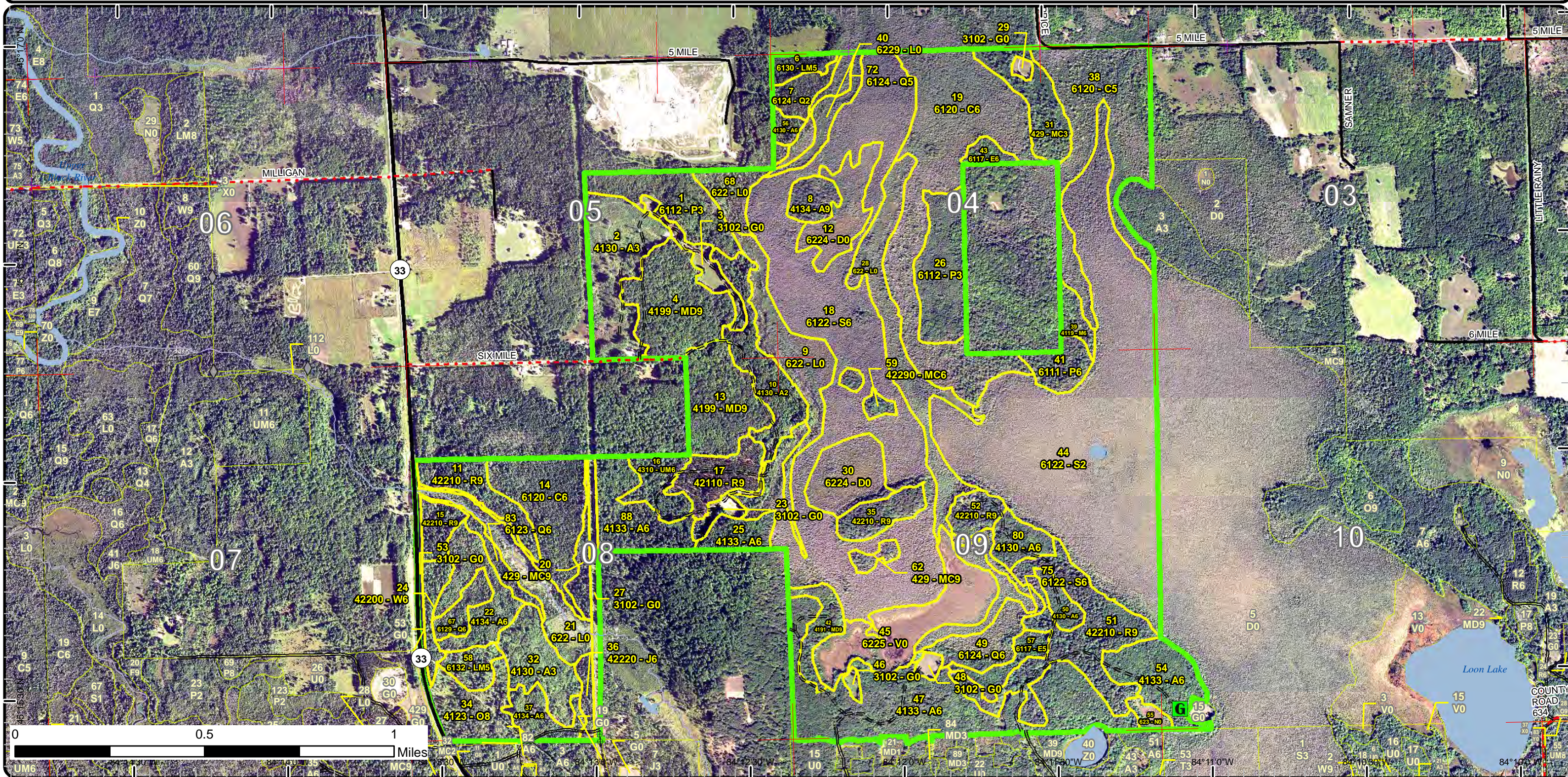


Stand Boundary Map

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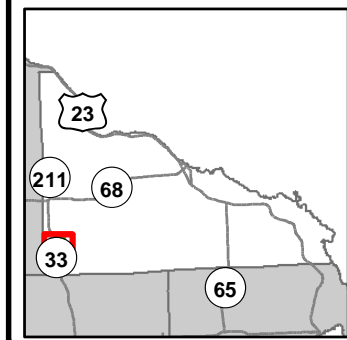


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- ◆ Field Grade Corners
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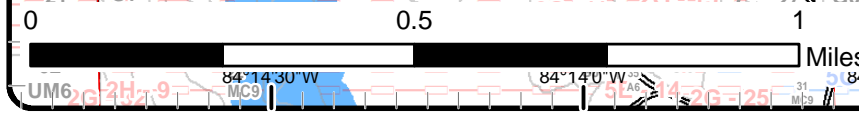
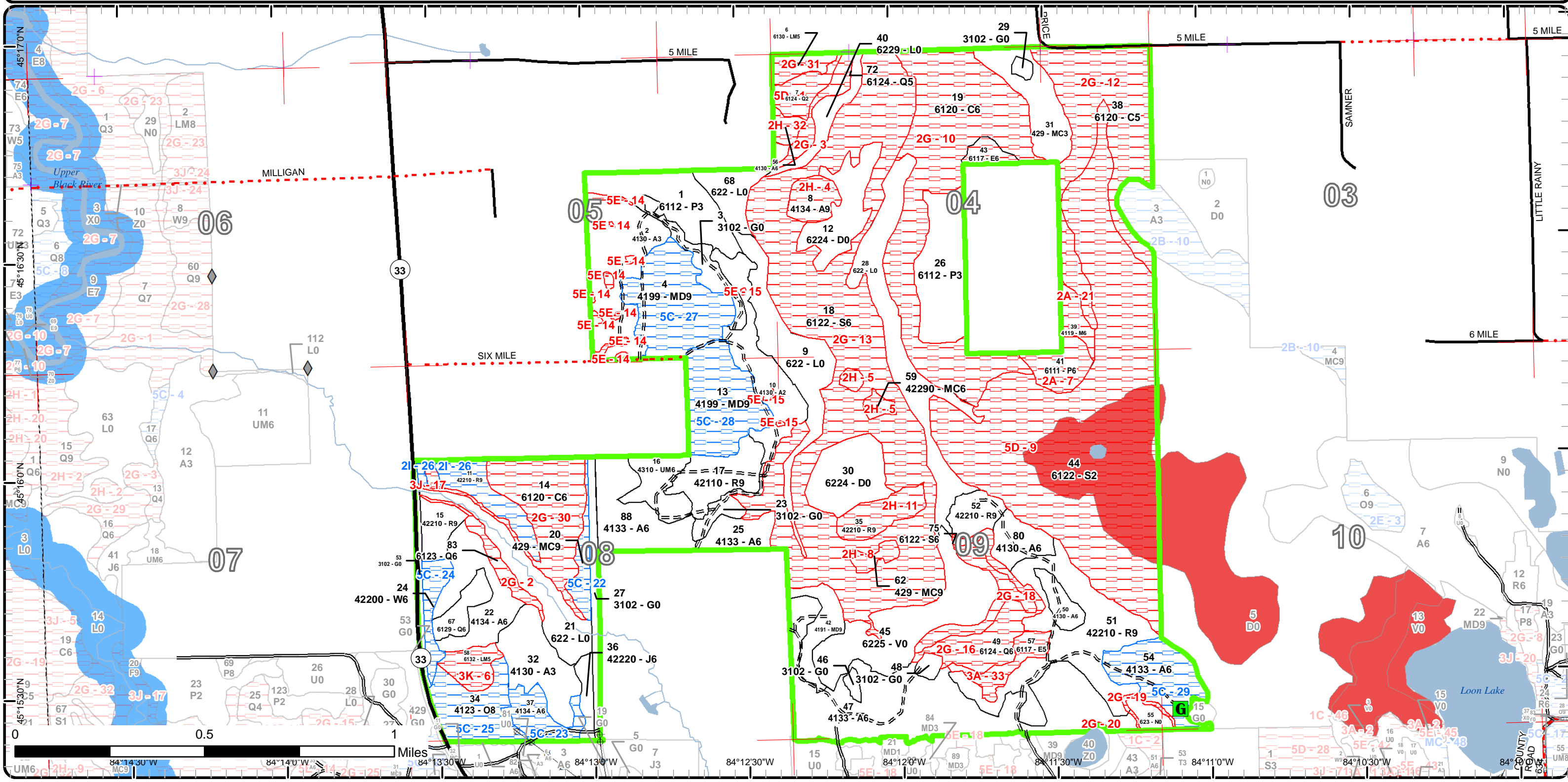


Special Conservation Areas & Site Conditions Map

Compartment: 117
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 YOE: 2021
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- Federal / State Highway
- Federal / State / County - Paved Road
- .-.- County - Gravel Road
- Gate
- Lake/Pond
- Perennial River
- Lakes and Rivers All
- Pipeline
- ⊕ Powerline
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 2I: Survey needed
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 2A: Adjacent landowner denied access
- 2G: Too wet (sensitive soils, does not include access issues)
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 3A: Conservation Values incompatible with harvest at this time
- 3J: Water quality / BMPs (stream, river, or lake)
- 3K: Rare or unique landforms
- 5D: Unproductive Forest Land
- 5E: Long-Term Retention
- Stand Boundaries
- Ecological Reference Areas
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer



Report 1 – Total Acres by Cover Type and Age Class



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	65	23	0	26	47	122	0	0	0	9	0	0	0	0	0	0	0	292
Bog	42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	42
Cedar	0	0	0	0	0	0	0	0	0	0	0	0	101	94	0	0	0	0	195
Herbaceous Openland	36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	36
Jack Pine	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	5
Lowland Aspen/Balsam Poplar	0	0	0	26	30	0	0	0	0	11	0	0	0	0	0	0	0	0	67
Lowland Conifers	0	0	0	0	7	8	0	0	16	0	0	0	20	0	0	0	0	0	51
Lowland Deciduous	0	0	0	0	0	0	9	0	0	0	0	4	0	0	0	0	0	0	13
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	0	6	8	0	0	0	0	0	0	14
Lowland Shrub	114	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	114
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	0	0	0	0	419	0	0	0	0	0	419
Marsh	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	0	0	69	11	0	0	0	0	0	0	80
Natural Mixed Pines	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	4
Northern Hardwood	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	6
Oak	0	0	0	0	0	0	0	0	0	0	0	22	0	0	0	0	0	0	22
Red Pine	0	0	0	0	0	0	0	18	0	0	17	67	12	0	0	0	0	0	113
Treed Bog	41	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	41
Upland Conifers	0	0	0	20	0	0	0	0	0	0	4	7	0	0	0	0	0	0	31
Upland Mixed Forest	0	0	0	0	0	13	0	0	0	0	0	0	0	0	0	0	0	0	13
White Pine	0	0	0	0	0	0	0	0	0	0	0	8	0	0	0	0	0	0	8
Total	237	65	23	46	63	73	131	18	16	17	105	132	552	94	0	0	0	0	1570



Report 2 – Treatment Summary

Atlanta Mgt. Unit
Year of Entry: 2021

Acres of Harvest

Compartment 117
Total Compartment Acres: 1,572

Commercial Harvest - 175
Harvests with Site Condition - 15
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	97	0	0	0	0	0	0	0	0	97
Mixed Upland Deciduous	11	0	0	0	0	0	0	0	0	11
Red Pine	82	0	0	0	0	0	0	0	0	82
Total	190	0	0	0	0	0	0	0	0	190

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	190	0	0	0	0	0	0	7		197
Next Step	0	32	32	0	0	32	223	0	0	319
Total	190	32	32	0	0	32	223	0	7	517



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
11	54117011-Cut	15.0	42210 - Natural Red Pine	Sawtimber Well	99	141- 170	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	Approved Proposal

Habitat Cut: No **Site Condition: Survey Needed**

Prescription Use the 6" stump height spec and chip tops to facilitate planting and reforestation.

Specs:

Place the landing near the road, west of the stream that runs through the stand.

Forward wood to the landing.

Place retention around heavier cedar areas or cedar clumps.

Obtain DEQ permit and use portable mats to cross the stream. Place landing west of site condition. Possible shortwood operation. Contact M-DOT before sale. Need road built into stand.

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

Acceptable Regen: Medium to well stocked planted red pine.

Other

Comment:

Proposed Start Date: 10/1 /2020

15	54117015-Cut	8.6	42210 - Natural Red Pine	Sawtimber Well	102	111- 140	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	Approved Proposal
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Habitat Cut: No **Site Condition:**

Prescription Use the 6" stump height spec and chip tops to facilitate planting and reforestation.

Specs:

Place retention around the larger pines that line the road. Be aware of legacy pines.

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

Acceptable Regen: Medium to well stocked red pine.

Other

Comment:

Proposed Start Date: 10/1 /2020

23	54117023-NF	5.6	3102 - Grass	Nonstocked		Unspec ified	NonForestMgt	Herbaceous/Crop /Grass Planting	310 - Herbaceous Openland		Approved Proposal
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Habitat Cut: No **Site Condition:**

Prescription Opening will be maintained on an ongoing rotational basis to produce wildlife forage or cover through burning, mowing, planting, or other

Specs: agriculture practices

Next Step Treatments:

Acceptable Regen:

Other

Comment:

Proposed Start Date: 10/1 /2020



Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
29	54117029-NF	1.6	3102 - Grass	Nonstocked		Unspecified	NonForestMgt	Herbaceous/Crop /Grass Planting	3105 - Mixed Upland Herbaceous		Approved Proposal

Habitat Cut: No**Site Condition:**

Prescription Opening will be maintained on an ongoing rotational basis to produce wildlife forage or cover through burning, mowing, planting, or other agriculture practices

Next Step
Treatments:

Acceptable
Regen:

Other Old next step comments: monitor vegetative composition and structure; re-enter on 5-10 year rotation as needed
Comment:

Proposed Start Date: 10/18/2018

42	54117042-Cut	10.7	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	107	111-140	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Approved Proposal
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Habitat Cut: No**Site Condition:**

Prescription Use grouse log spec and leave den trees standing unless they pose a safety hazard.

Specs: Slope is not an issue around the bog, but stay a sensible distance away from where the covertype begins to change into cedar, balsam fir, tag alder, and white pine.

Next Step Monitoring, Natural Regen (Intermediate)
Treatments:

Acceptable Medium to fully stocked mix of aspen, red maple, red oak, balsam fir, and pine.
Regen:

Other
Comment:

Proposed Start Date: 10/1 /2020

47	54117047-Cut	81.0	4133 - Aspen, Mixed Pine	Poletimber Well	50	111-140	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Approved Proposal
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Habitat Cut: No**Site Condition:**

Prescription Use grouse log spec and leave den trees standing unless they pose a safety hazard.

Specs: Slope is not an issue around the bog, but stay a sensible distance away from where the covertype begins to change into cedar, balsam fir, tag alder, and white pine.

Next Step Monitoring, Natural Regen (Intermediate)
Treatments:

Acceptable Medium to fully stocked aspen.
Regen:

Other
Comment:

Proposed Start Date: 10/1 /2020

50	54117050-Cut	6.3	4130 - Aspen	Poletimber Well	50	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Approved Proposal
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Habitat Cut: No**Site Condition:**

Prescription Use grouse log spec and leave den trees standing unless they pose a safety hazard.

Specs: Put retention around ecologically significant areas, such as that of blowdown, along the edge of a swamp, etc.

Next Step Monitoring, Natural Regen (Intermediate)
Treatments:

Acceptable Medium to well stocked aspen.
Regen:

Other
Comment:

Proposed Start Date: 10/1 /2020



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
51	54117051-Cut	49.8	42210 - Natural Red Pine	Sawtimber Well	100	111- 140	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	Approved Proposal

Habitat Cut: No**Site Condition:**

Prescription Use the 6" stump height spec. Protect understory.

Specs:

Slope is not an issue around the swamp, but stay a sensible distance away from where the covertime begins to change into cedar, balsam fir, and white pine.

Next Step Monitoring, Natural Regen (Intermediate)

Treatments:

Acceptable At least 30% oak, with a mix of red maple and pine.

Regen:

Other If the regeneration is less than 30% oak, trench and plant to red pine.

Comment:

Proposed Start Date: 10/1 /2020

52	54117052-Cut	8.7	42210 - Natural Red Pine	Sawtimber Well	100	111- 140	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	Approved Proposal
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Habitat Cut: No**Site Condition:**

Prescription Use the 6" stump height spec and chip tops to facilitate planting and reforestation.

Specs:

Place retention around ecologically significant areas, such as pockets of blowdown, more diverse areas, or sections along the swamp.

Slope is not an issue around the swamp, but stay a sensible distance away from where the covertime begins to change into cedar, balsam fir, and white pine.

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

Treatments:

Acceptable Medium to fully stocked planted red pine.

Regen:OtherComment:

Proposed Start Date: 10/1 /2020

80	54117080-Cut	10.1	4130 - Aspen	Poletimber Well	50	111- 140	Harvest	Clearcut with Retention	4136 - Aspen, Mixed Conifer	Even-Aged	Approved Proposal
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Habitat Cut: No**Site Condition:**

Prescription Use grouse log spec and leave den trees standing unless they pose a safety hazard.

Specs:

Place retention around ecologically significant areas, such as pockets of blowdown, more diverse areas, or sections along the swamp.

Slope is not an issue around the swamp, but stay a sensible distance away from where the covertime begins to change into cedar, balsam fir, and white pine.

Next Step Monitoring, Natural Regen (Intermediate)

Treatments:

Acceptable Medium to well stocked mix of aspen, balsam fir, red maple, and pine.

Regen:OtherComment:

Proposed Start Date: 10/1 /2020

**Total Treatment
Acreage Proposed: 197.4**

Report 4 – Site Conditions

Atlanta Mgt. Unit
Joyanne Mittig : Examiner

Compartment: 117
Year of Entry: 2021

Availability for Management

Total Acres	Acres Available	Acres Avail With Condition		Acres Not Available	Dominant Site Conditions									
					2I	5C	2A	2G	2H	3A	3J	3K	5D	5E
291	237	35	19	Aspen		35		1	12			0	0	5
42	42	0	0	Bog				0						
196	0	0	196	Cedar				196			0			
36	36	0	0	Herbaceous Openland				0						
5	5	0	0	Jack Pine										
67	56	0	11	Lowland Aspen/Balsam Poplar			11						0	
51	8	0	43	Lowland Conifers				34					9	
13	0	0	13	Lowland Deciduous				4		9				
14	0	0	14	Lowland Mixed Forest				6				8		
114	114	0	0	Lowland Shrub				0					0	
420	0	0	420	Lowland Spruce/Fir			0	207	0				212	
4	4	0	0	Marsh										
79	11	69	0	Mixed Upland Deciduous		69								
4	0	0	4	Natural Mixed Pines					4					
6	0	0	6	Northern Hardwood			6							
22	0	22	0	Oak		22						0		
114	85	15	14	Red Pine	15			0	12		2		0	
41	41	0	0	Treed Bog					0					
31	20	7	4	Upland Conifers		7			4					
13	13	0	0	Upland Mixed Forest										
8	0	8	0	White Pine		8								
1,572	671	156	744	Total Forested Acres	15	141	17	450	32	9	2	8	221	5
	43%	10%	47%	Relative Percent										

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

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	5D: Unproductive Forest Land	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Atlanta Mgt. Unit
 Joyanne Mittig : Examiner

Compartment: 117
 Year of Entry: 2021

2	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
3	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	3K: Rare or unique landforms	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	2A: Adjacent landowner denied access	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Atlanta Mgt. Unit
Joyanne Mittig : Examiner

Compartment: 117
Year of Entry: 2021

8	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
9	Unavailable	5D: Unproductive Forest Land	212	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments: Standing water and sphagnum hummocks. Spruce becomes progressively smaller as you move to the center. No merchantable value. 100 year old spruce is 3" DBH at most.							
10	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	99	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
12	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	64	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Atlanta Mgt. Unit
Joyanne Mittig : Examiner

Compartment: 117
Year of Entry: 2021

13	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	196	5D: Unproductive Forest Land	Unspecified	Unspecified	Unspecified
Comments: Sphagnum hummocks							
14	Unavailable	5E: Long-Term Retention	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
15	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Long term retention from stand 10 sale 54-018-15-01 Unit 3							
16	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	20	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
17	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	2	2D: Portable Bridge Needed (Dept. bridge will be adequate)	Unspecified	Unspecified	Unspecified
Comments:							
18	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Atlanta Mgt. Unit
Joyanne Mittig : Examiner

Compartment: 117
Year of Entry: 2021

19	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Cedar, pit and mound topography.							
20	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
21	Unavailable	2A: Adjacent landowner denied access	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
22	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Group with stand 88, stand 25, stand 37, stand 16 for possible sale in 10 years.							
23	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Group with stand 88, stand 25, stand 20, stand 16 for possible sale in 10 years.							
24	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Cut when the stand to the south, stand 34 (O8 type) is cut.							

Report 4 – Site Conditions

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Compartment: 117
Year of Entry: 2021

25	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	22	Unspecified	Unspecified	Unspecified	Unspecified
Comments: This stand should be used to trade red pine acres. It grows pine well, but not oak. Harvest the white pine stand north of this stand along M-33 when this stand is harvested.							
26	Available	2I: Survey needed	15	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
27	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	37	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
28	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	31	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
29	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	23	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
30	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	37	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Atlanta Mgt. Unit
Joyanne Mittig : Examiner

Compartment: 117
Year of Entry: 2021

31	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
32	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	4	2B: Unknown if access through adjacent landowner(s) is possible	Unspecified	Unspecified	Unspecified
Comments:							
33	Unavailable	3A: Conservation Values incompatible with harvest at this time	9	2G: Too wet (sensitive soils, does not include access issues)	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.
ERA	Ecological Reference Areas	Ecological Reference Areas (ERAs) are high quality examples of natural communities that have been identified as Element Occurrences (EOs) by the Michigan Natural Features Inventory (MNFI) within the context of their natural community classification system. Element Occurrences with viability ranks of A (Excellent) or B (Good) and a Global (G) or State (S) element (rarity) ranking of endangered (1), threatened (2), or rare (3) serve as an initial base of ERAs. They may be located upon any ownership in the State. The system is comprised of individual or associations of natural community types that are managed for restoration and maintenance of natural ecological processes and values. The public may submit recommendations for lands as ERAs using the DNR Conservation Area Recommendation Form.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																													
1	6112 - Lowland Aspen	Sapling Well	26.1	27	Unspecified	N/A	North is wetter with higher components of tag alder and balsam fir. Balsam fir heavy on east edge. Good red oak regen in the south. Heavy browse. When this stand was cut in the early 90's, a strip of trees was left along the trail. Non-native honeysuckle throughout, but very dense along SW edge.																																																													
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2	4130 - Aspen	Sapling Well	38.7	4	Immature	N/A	Regeneration was successful; well-stocked aspen.																																																													
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3	3102 - Grass	Nonstocked	9.8		Unspecified	No	Overwhelmingly grass, with rubus, hawthorn, tansy, and other non-grass vegetation along the edges. The larger openings in the northwest have apple trees. Non-native honeysuckle along the edges.																																																													
4	4199 - Other Mixed Upland Deciduous	Sawtimber Well	37.4	95	81-110	N/A	Ash regeneration present. Heavy browse. Thinned to 90 BA in 2018; focused on aspen and basswood logs and poor maples poles.																																																													
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6	6130 - Fir, Aspen, Maple	Poletimber Medium	6.1	99	51-80	N/A	Mix of species. Hummocky ground in some areas. More tamarack to the north.																																																													
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																				
7	6124 - Lowland Spruce-Fir	Sapling Medium	8.5	79	1-50	N/A	Very wet. Small diameter cedar, fir, and spruce. High amounts of tag alder. Hummocks.																																				
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8	4134 - Aspen, Spruce/Fir	Sawtimber Well	8.6	92	111-140	N/A	No access to stand. Island of high ground in middle of swamp complex.																																				
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9	622 - Lowland Shrub	Nonstocked	29.9	0	Unspecified	No	Tag alder thicket with some winterberry. Dead elm snags are evenly distributed. There's a few paper birch saplings. Leatherleaf and cattails. Running water can be heard.																																				
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11	42210 - Natural Red Pine	Sawtimber Well	16.5	99	141-170	N/A	Aspen is decaying. A few legacy pines in this stand. Little spots of cedar and tip ups throughout. Slope is not an issue. Keep timber sale line on the edges of the covertype change (cedar and paper birch) along the south boundary. Smaller pine in the west edge of the stand. Possible wet pockets. The land here is lower compared to the red pine stand south of Tomahawk Creek. A branch off of Tomahawk Creek flows north-south through the western part of this stand. There is a site condition around it.																																				
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12	6224 - Treed Bog	Nonstocked	19.5		Unspecified	No	Sphagnum, leatherleaf, bog laurel, laborador tea.																																				
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13	4199 - Other Mixed Upland Deciduous	Sawtimber Well	31.2	95	81-110	N/A	Heavy browse. The stand is more dense and diverse in the north. Large red oak throughout. Large decaying bigtooth aspen.																																																				
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14	6120 - Lowland Cedar	Poletimber Well	37.4	118	141-170	N/A	Varying amounts of balsam fir understory. Higher spruce amount in the north, higher balsam, paper birch, and tamarack amounts in the south and along Tomahawk Creek. Seedling layer is devoid of woody vegetation. It's mostly bare minus the spots with moss. Creeping Snowberry present. Basin-like topography.																																																				
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15	42210 - Natural Red Pine	Sawtimber Well	8.6	102	111-140	N/A	Trace amounts of log-sized red oak. Red pine gets more broken up by balsam fir, red maple, and bigtooth aspen as you move away from the unmarked road. Unmarked road runs through stand. Decayed stumps are present, looks like this stand may have been thinned in the past. Heavy deer browse. Some snags. Looked for fire scars, could not find any.																																																				
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16	4310 - Pine, Oak Mix	Poletimber Well	13.0	40	51-80	N/A	Hawthorn, wild raisin, juneberry. Massive oak with large crowns spaced evenly throughout the stand. Large red pine and white pine left from previous harvest as well. Heavy browse. White pine with spruce and balsam fir components growing under supercanopy oak and red pine. Young, dense, small red and white pine saplings growing in SE portion of stand.																																																				
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17	42110 - Planted Red Pine	Sawtimber Well	17.7	60	111-140	N/A	Planted in 1959, 3-0 stock. Third row thinned in 2016. Non-native honeysuckle and autumn olive are present in all but the north portion; they are worse around the road. Rubus, hawthorn, white ash saplings, ironwood saplings. Heavy browse throughout, even on white pine. Trace amounts of large oak.																																																				
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18	6122 - Black Spruce	Poletimber Well	196.2	118	81-110	N/A	A nearly pure black spruce swamp that sits on top of a thick layer of sphagnum moss. Hummocks, labrador tea, bog cranberry, and leatherleaf make up the floor. Small amount of spruce regen. Took site condition forester to this stand 01/16/19 and he said it was too wet to harvest.																																												
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19	6120 - Lowland Cedar	Poletimber Well	94.3	125	81-110	N/A	Wet, with tip-ups. Has some upland islands. Scattered hardwoods throughout.																																												
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20	429 - Mixed Upland Conifers	Sawtimber Well	7.1	102	111-140	N/A	Aspen is old and dying. The pines in this stand have a scraggly form and many split in two main stems 30 ft up. The stand is littered with large fallen aspen. Lots of snags. More hardwoods and smaller trees in the north, with less pine and more quaking aspen. Striped maple present, as well as hawthorn, honeysuckle, and blueberry. The north has more extreme slopes. Medium to heavy browse.																																												
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21	622 - Lowland Shrub	Nonstocked	23.4		Unspecified	No	Cattail marsh with dead cedar. Tomahawk Creek runs through. Tag alder, white pine, and balsam fir surround the edges. Dwarfed (<5ft tall) tamarack and white pine are sprinkled throughout. This corridor is favored by bald eagles, pileated woodpeckers, northern flickers, and American goldfinches.																																												
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22	4134 - Aspen, Spruce/Fir	Poletimber Well	22.8	37	51-80	N/A	Repressed, doghair thick fir and spruce that just reaches the lower crown of the aspen. Rubus, dewberry, nannyberry present.																																												
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23	3102 - Grass	Nonstocked	5.6		Unspecified	No	Queen Ann's Lace, goldenrod, rubus present.																																												



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																	
24	42200 - Natural White Pine	Poletimber Well	8.3	102	81-110	N/A	Good buffer along M33. Stand has trace amounts of hemlock and basswood. Balsam fir understory is very dense. More mature oak in the southern portion of the stand, and higher amounts of aspen in the north. Hawthorn, witch hazel, grape vines, and invasive honeysuckle. Trace amounts of conifer regen, but the ground is covered in white ash regen where it's not shaded out by balsam fir.																																																	
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25	4133 - Aspen, Mixed Pine	Poletimber Well	9.7	40	1-50	N/A	Transition from uplands to lowlands. Hold 10-20 yrs. Hawthorn, rubus, honeysuckle. Red oak, red pine, and white pine left from previous harvest.																																																	
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26	6112 - Lowland Aspen	Sapling Well	29.5	36	Unspecified	N/A	Lowland with upland components. Smaller trees. Some wet pockets.																																																	
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27	3102 - Grass	Nonstocked	9.8		Unspecified	No																																																		
28	622 - Lowland Shrub	Nonstocked	39.6		Unspecified	No	Tag alder, tamarack, black spruce, winterberry, cattails, some sphagnum. Very hummocky.																																																	
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29	3102 - Grass	Nonstocked	1.6		Unspecified	No	Mostly grass. Has pine seedlings, invasive honeysuckle, autumn olive, spotted knapweed.																																																	
30	6224 - Treed Bog	Nonstocked	21.9		Unspecified	No	This is a extremely hummocky bog with small, dwarfed trees. Tree cover is fairly low. Black spruce, tamarack, and white pine make up the tree species. Leatherleaf, labrador tea, bog rosemary, and sphagnum cover the ground.																																																	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																										
31	429 - Mixed Upland Conifers	Sapling Well	19.8	28	1-50	N/A	Legacy white pine and red pine. Some 30+ inches dbh. Beaked hazel. Huge eagle nest in white pine on edge of grass opening. 28 year old regen is small. Some cedar regen.																																										
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32	4130 - Aspen	Sapling Well	22.7	14	Unspecified	N/A	Recent clear cut. Heavy deer/elk browse. Great aspen regen. Some super canopy white pines left over from harvest.																																										
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34	4123 - Red Oak	Sawtimber Medium	22.3	108	51-80	N/A	White ash saplings throughout. Honeysuckle, rubus, hawthorn, witch hazel, and autumn olive present. Thick white pine regen in the west. Patch of thick aspen saplings in the northwest. Good red pine regen in the northeast. Heavy white pine regen in the southwest.																																										
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35	42210 - Natural Red Pine	Sawtimber Well	12.0	111	141-170	N/A	Nice stand of mature pine with scattered aspen. Trace amounts of paper birch. Beaked hazelnut, buckthorn present. No access to stand it is island surrounded by bog and low types with standing water.																																										
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36	42220 - Natural Jack Pine	Poletimber Well	5.1	45	51-80	N/A	Small diameter and poor quality.																																										
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37	4134 - Aspen, Spruce/Fir	Poletimber Well	11.8	49	81-110	N/A	Wintergreen, blueberry, hawthorn, sweetfern, and honeysuckle throughout. Heavy browse.																																																
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38	6120 - Lowland Cedar	Poletimber Medium	64.2	115	51-80	N/A	Very wet. Some scattered hardwoods. Mixed hardwood area in northeast of stand.																																																
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39	4119 - Mixed Northern Hardwoods	Poletimber Well	6.1	86	111-140	N/A	Harvest if PVT is ever being cut and access is available. Mixed Hardwood understory																																																
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40	6229 - Mixed lowland shrub	Nonstocked	8.8	0	Unspecified	No	Wet. Tag alders and cattails. Stunted spruce and cedar.																																																
41	6111 - Lowland Balsam Poplar	Poletimber Well	11.2	86	81-110	N/A	Could cut if PVT is ever cut.																																																
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42	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	10.7	107	111-140	N/A	Conifer component greatest along bog. Beaver activity present. Good mix of larger diameter species. Aspen is decaying. Gradual slope into the bog.																																																
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43	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	4.3	100	111-140	N/A	Mostly mature birch and balsam fir. Possible sensitive soil.																																																										
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44	6122 - Black Spruce	Sapling Medium	212.2	110	Unspecified	N/A	Spruce swamp. Spruce heavier around edges and 10-20ft tall, small diameter, very dense. Spruce height decreases toward the center of the swamp. Hummock topography. Sphagnum, leatherleaf, Labrador tea, bog rosemary, and bog laurel underneath the spruce. Standing water. Part of this stand is an ERA.																																																										
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45	6225 - Bog	Nonstocked	41.5		Unspecified	No	Labrador tea, beaked hazel, tag alder, sphagnum, leatherleaf. Cattails, rushes, open water. Higher areas have more bog plants and less emergents. Small white pine, jack pine, tamarack, black spruce.																																																										
46	3102 - Grass	Nonstocked	1.6		Unspecified	No																																																											
47	4133 - Aspen, Mixed Pine	Poletimber Well	81.5	50	111-140	N/A	Need to cut large blocks to help regen. Trace amounts of canopy sugar maple and balsam fir. Beaked hazelnut, serviceberry, in understory. Beaver activity near bog.																																																										
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49	6124 - Lowland Spruce-Fir	Poletimber Well	20.4	118	81-110	N/A	Trace amounts of white pine, black cherry, tamarack, and balsam poplar.																																																										
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51	42210 - Natural Red Pine	Sawtimber Well	50.3	100	111-140	N/A	Heavy browse, fire scarring, lots of beaked hazel. Fairly uniform in species, density, and size. Mostly flat except for a few hills; should not hinder harvest operations.																																																				
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52	42210 - Natural Red Pine	Sawtimber Well	8.7	100	111-140	N/A	Has pockets of blowdown. More diverse stand compared to the red pine to the south with older pine over younger understory. High amounts of beaked hazelnut. Avoid edges of swamp when harvesting; full of cedar, small balsam fir, and tamarack. Open area in the north.																																																				
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53	3102 - Grass	Nonstocked	5.4	0	Unspecified	No	Grass slope between M-33 and forest.																																																				
54	4133 - Aspen, Mixed Pine	Poletimber Well	24.1	50	51-80	N/A	Thick white pine regeneration under aspen.																																																				
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55	623 - Emergent Wetland	Nonstocked	3.9		Unspecified	No	Emergent cattail marsh. Surrounded by cedar, paper birch, and balsam fir.																																																				



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56	4130 - Aspen	Poletimber Well	3.6	30	51-80	N/A																																																		
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57	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Medium	8.9	50	51-80	N/A	Wetter drainage corridor. Possible standing water. Ash snags. Pit and mound topography. Good transition zone and wildlife coordior.																																																	
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58	6132 - Mixed Lowland Forest with Cedar	Poletimber Medium	8.4	108	51-80	N/A	Rubus, tag alder, white ash saplings, honeysuckle, rattlesnake fern, autumn olive, and hawthorn present. Heavy deer browse. Pit and mound topography, with water pooling in most of the pits. Cedar tip-ups throughout. Excellent white pine, balsam fir, spruce, and red pine seedling regeneration.																																																	
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59	42290 - Natural Mixed Pine	Poletimber Well	4.5	100	81-110	N/A	mixed stand of Cedar/L types/Bogs and a few small upland islands of Balsam Poplar.																																																	
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62	429 - Mixed Upland Conifers	Sawtimber Well	3.7	90	111-140	N/A																																																		
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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67 6129 - Mixed Coniferous Lowland Forest Poletimber Well 8.0 41 51-80 N/A Thick balsam fir and cedar. Wet.

Canopy Species	% Cover	Size Class	DBH	Age
Northern White Cedar	42	Pole	8	41
Balsam Fir	42	Sapling	4	
Bigtooth Aspen	10	Pole/Sapling	6	

68 622 - Lowland Shrub Nonstocked 12.2 0 Unspecified No

Tag alder and winterberry dense thicket with standing water and hummocks. White pine, red maple, black spruce, tamarack, paper birch and cedar scattered throughout. Cattails present. Edge consists of red maple, paper birch, and balsam fir. Very wet.

Canopy Species	Density	Avg. Height	Size
Tag Alder	Full	5 - 10 feet	Tall Shrub
Michigan Holly	Full	5 - 10 feet	Tall Shrub
White Pine	Low	>20 feet	Log
Northern White Cedar	Low	>20 feet	Log
Black Spruce	Low	>20 feet	Pole
Tamarack	Low	>20 feet	Pole
Paper Birch	Low	10 - 20 feet	Sapling
Red Maple	Low	10 - 20 feet	Sapling
Balsam Fir	Low	10 - 20 feet	Sapling

72 6124 - Lowland Spruce-Fir Poletimber Medium 7.2 79 1-50 N/A Wet with some more open areas.

Canopy Species	% Cover	Size Class	DBH	Age
Balsam Fir	20	Pole	8	
Black Spruce	35	Pole	9	79
Northern White Cedar	30	Pole	8	
Red Maple	10	Pole	8	

Canopy Species	Density	Avg. Height	Size
Tag Alder	Medium	5 - 10 feet	Tall Shrub

75 6122 - Black Spruce Poletimber Well 11.2 118 81-110 N/A low ground conifer mix

Canopy Species	% Cover	Size Class	DBH	Age
Black Spruce	85	Pole/Sapling	7	118
Northern White Cedar	10	Log/Pole	10	

Canopy Species	Density	Avg. Height	Size
Balsam Fir	Medium	5 - 10 feet	Sapling
Tag Alder	Medium	5 - 10 feet	Tall Shrub

80 4130 - Aspen Poletimber Well 10.1 50 111-140 N/A Beaked hazel throughout. Heavy browse.

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	30	Log/Pole	10	
Bigtooth Aspen	40	Pole/Log	8	50
Red Maple	18	Pole/Sapling	8	

Canopy Species	Density	Avg. Height	Size
Balsam Fir	High	10 - 20 feet	Sapling
Quaking Aspen	Low	10 - 20 feet	Sapling
Northern White Cedar	Low	10 - 20 feet	Sapling
Red Maple	Low	10 - 20 feet	Sapling
Paper Birch	Low	10 - 20 feet	Sapling
White Spruce	Low	>20 feet	Sapling
Bigtooth Aspen	Low	10 - 20 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
83	6123 - Lowland Fir	Poletimber Well	6.6	37	51-80	N/A	Moss and sedge understory. Most light blocked out by canopy. Wet. Serves as the transition zone from aspen/fir to emergent marsh. Good wildlife corridor.			
Canopy Species		% Cover	Size Class		DBH	Age	Canopy Species	Density	Avg. Height	Size
Balsam Fir		70	Sapling/Pole		4	37	Balsam Fir	Low	5 - 10 feet	Sapling
Northern White Cedar		20	Pole/Log		8					
88	4133 - Aspen, Mixed Pine	Poletimber Well	25.2	40	51-80	N/A	Taller aspen over suppressed, dog-hair thick balsam fir that just reaches the base of the crown. Left over massive white pine and red pine throughout. Not nearly as many legacy trees as the stand to the north. Cut in 20-30 years when aspen becomes merchantable.			
Canopy Species		% Cover	Size Class		DBH	Age	Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen		68	Pole/Sapling		5	40	Balsam Fir	Full	10 - 20 feet	Sapling
White Pine		10	XLog/Log		18		White Pine	Low	5 - 10 feet	Sapling
Red Pine		15	XLog/Log		20		Red Maple	Low	5 - 10 feet	Sapling
							Red Oak	Low	5 - 10 feet	Sapling