



Compartment Review Presentation

Pigeon River Country Forest Management Unit

Compartment 53056

Entry Year 2021

Acreage: 988

County Otsego

Management Area: Pigeon River Country

Revision Date: 2019-04-11

Stand Examiner: Greg Rekowski

Legal Description:

T32N R02W Sections 15, 16, and 17

Identified Planning Goals:

Maintain the current species mix and apply appropriate management techniques to mature stands of timber that are in need of treatment.

Soil and topography:

Lowland areas along the Sturgeon River are dominated by Tawas-Lupton organic soils. Upland areas are characterized mostly by Lindquist and Rubicon sands, with a smaller amount of Blue Lake loamy sands at the far western end of the Compartment. Terrain in the upland areas is rolling with some steep slopes present along the river valley sidewalls.

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

Solid block of State ownership. Large portions of sections 16 and 17 are privately owned by the Fontinalis Club.

Unique Natural Features:

No rare animal or plant communities have been identified in the Compartment.

Archeological, Historical, and Cultural Features:

The majority of this Compartment was purchased from McClouth Steel in 1980. No formal archeological inventory has ever been initiated.

Special Management Designations or Considerations:

This entire Compartment is part of the Green Timbers High Conservation Value Area (HCVA). The Sturgeon River Valley Special Conservation Area (SCA) is also within the Compartment and excludes several areas along the river bottom and valley walls from forest management.

Watershed and Fisheries Considerations:

The Sturgeon River, Pickerel Creek, and Phillips' Creek all flow through the Compartment and all of these are designated as cold water streams.

Wildlife Habitat Considerations:

A Wildlife representative will be available for comment at the Open House and Compartment Review.

Mineral Resource and Development Concerns and/or Restrictions

A gravel pit used to be located in stand 400 at the southeast side of the Compartment but it is now inactive and has since been converted to a managed wildlife opening. There is good sand & gravel potential within the Compartment on the upland areas. However, page 30 of the Concept of Management for the PRC says that extraction of surface minerals will rarely be allowed. This area is north of the Niagaran reef trend but is within the Antrim Shale gas play. The Antrim Shale is present but thinning in this area and may be less productive. There is no known metallic mineral potential in this part of the state. However, the entire Compartment is in the Annexed Area and, as provided on page 33 of the Concept of Management, no new development leases will be issued in this Area.

Vehicle Access:

This entire Compartment has been closed to motor vehicle use by a Director's Order, as have the rest of the Compartments within the Green Timbers area. Reynolds Road, however, passes through the southern end of Section 15 and has been left open for fisherman access to the Sturgeon River.

Survey Needs:

None identified. All corners along the private property interface with the Fontinalis Club were found.

Recreational Facilities and Opportunities:

No maintained trails or facilities exist, however many people enjoy hiking or cross country skiing on the old trail roads.

Fire Protection:

Fire risk is generally low throughout the Compartment with the exception of some drier white pine stands west of the river in Section 16. In the event of suppression activities, most of the closed roads can be accessed via locked gates.

Additional Compartment Information:

The following reports from the Inventory are attached:

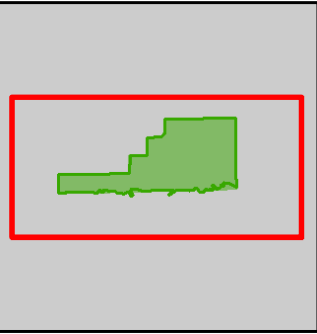
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

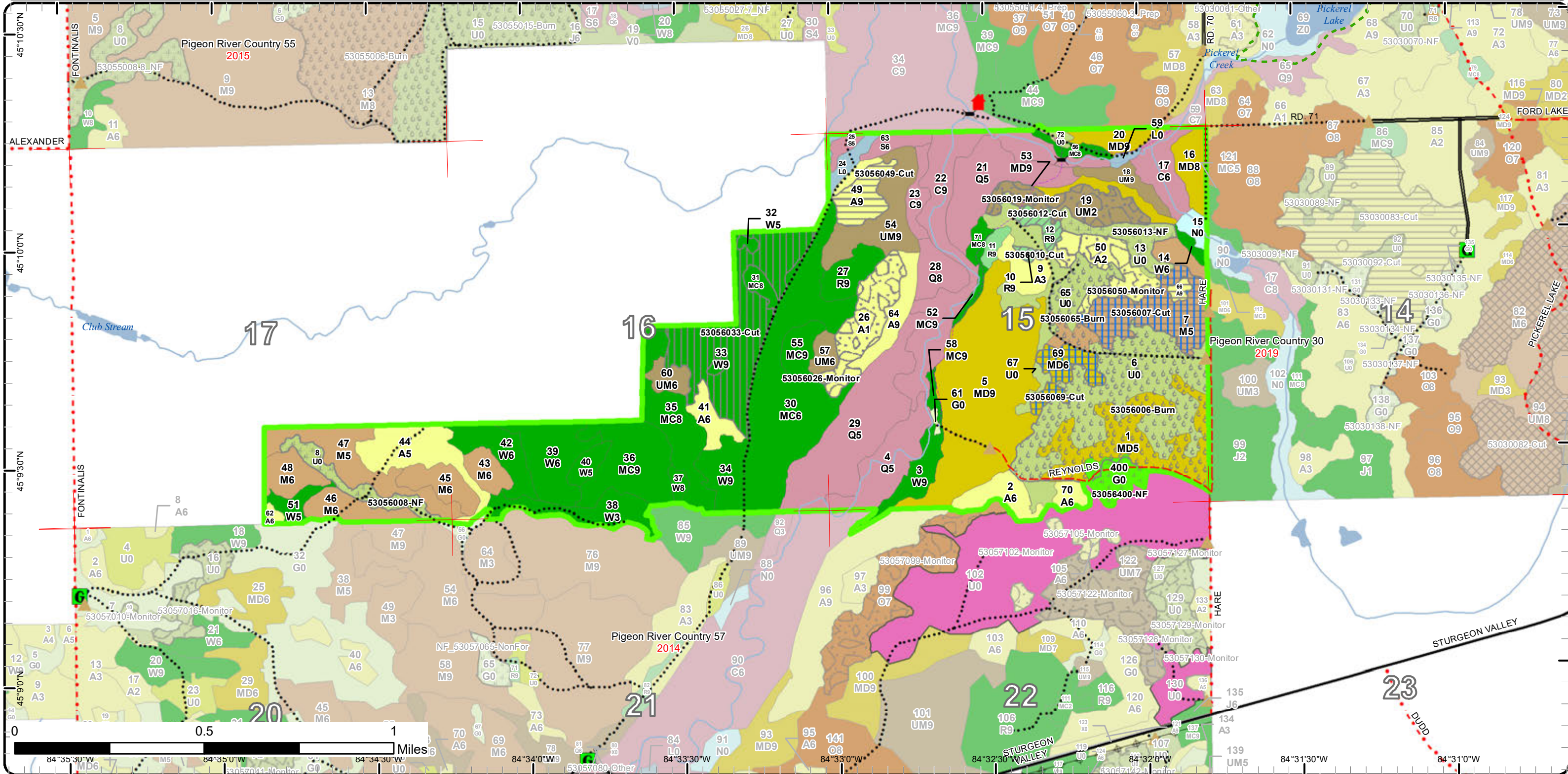
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 56
 T32N, R02W, Sec: 15, 16, 17
 County: Otsego
 Unit: Pigeon River Country
 Mgmt Area: Pigeon River Country
 YOE: 2021
 Acres: 988 GIS Calculated
 Examiner: Greg Rekowski
 Map Revised: 6/12/2019
 Map Phase: Web-Post

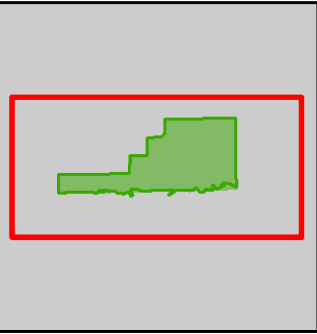


- Miris Corners
- Counties
- DNR - Secondary Forest Road
- Federal / State / County - Paved Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- DNR - Management Access (NLP)
- Designated Hiking Trails
- Designated Bicycle Trails
- Designated Ski Trails
- ▲ Cabin
- ▲ Berms
- Gate
- Bridges
- ▲ Structures
- Lake/Pond
- Perennial River
- Lakes and Rivers All
- Powerline
- Non-Designated Recreational Trail
- Compartment Boundary
- Other Treatment - See Comments
- Clearcut (w/Reserves)
- Prescribed Burn
- Seed Tree (w/Reserves)
- Thinning (Crown, Low, Systematic)
- Regeneration Survey
- Shelter Wood (w/Reserves)
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 430 - Upland Mixed Forest
- 612 - Lowland Coniferous Forest
- 211 - Cropland
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- Lakes

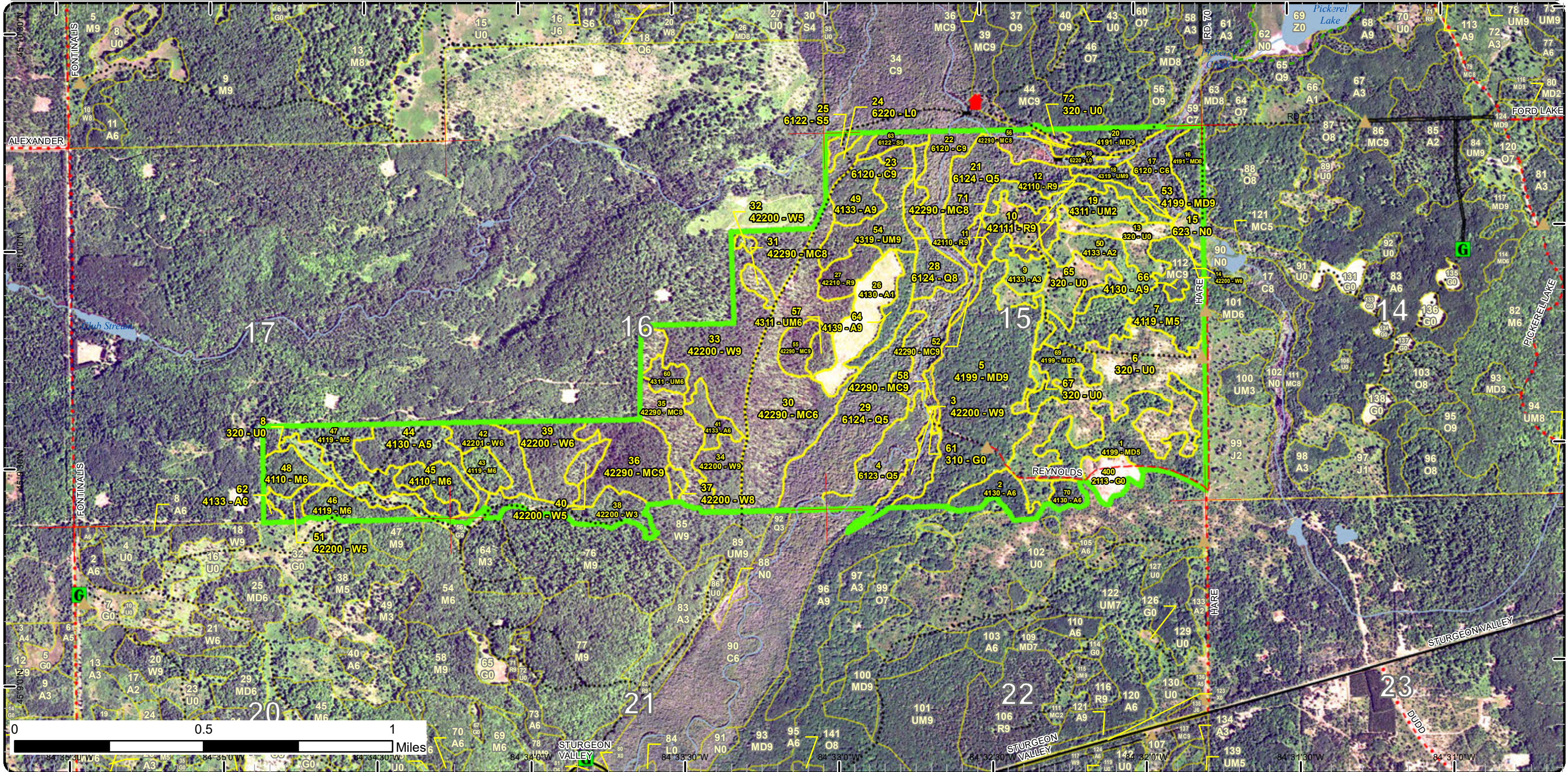


Stand Boundary Map

Compartment: 56
 T32N, R02W, Sec: 15, 16, 17
 County: Otsego
 Unit: Pigeon River Country
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 Map Revised: 6/12/2019
 Map Phase: Web-Post

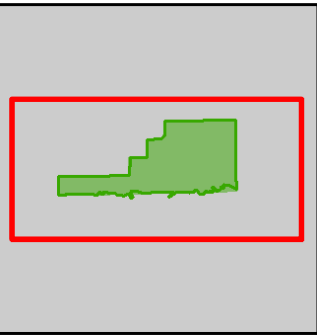


- Miris Corners
 - Counties
 - DNR - Secondary Forest Road
 - Federal / State / County - Paved Road
 - County - Gravel Road
 - County - Dirt Road (Seasonal)
 - DNR - Management Access (NLP)
 - Designated Hiking Trails
 - Designated Bicycle Trails
 - Designated Ski Trails
 - Cabin
 - Berms
 - Gate
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 - Structures
 - Lake/Pond
 - Perennial River
 - Lakes and Rivers All
 - Powerline
 - Non-Designated Recreational Trail
 - Compartment Boundary
 - Stand Boundaries
- 211 - Cropland
 - 310 - Herbaceous Openland
 - 320 - Upland Shrub
 - 622 - Lowland Shrub
 - 623 - Emergent Wetland
 - 411 - Northern Hardwood
 - 413 - Aspen
 - 419 - Mixed Upland Deciduous
 - 421 - Planted Pines
 - 422 - Natural Pines
 - 430 - Upland Mixed Forest
 - 612 - Lowland Coniferous Forest

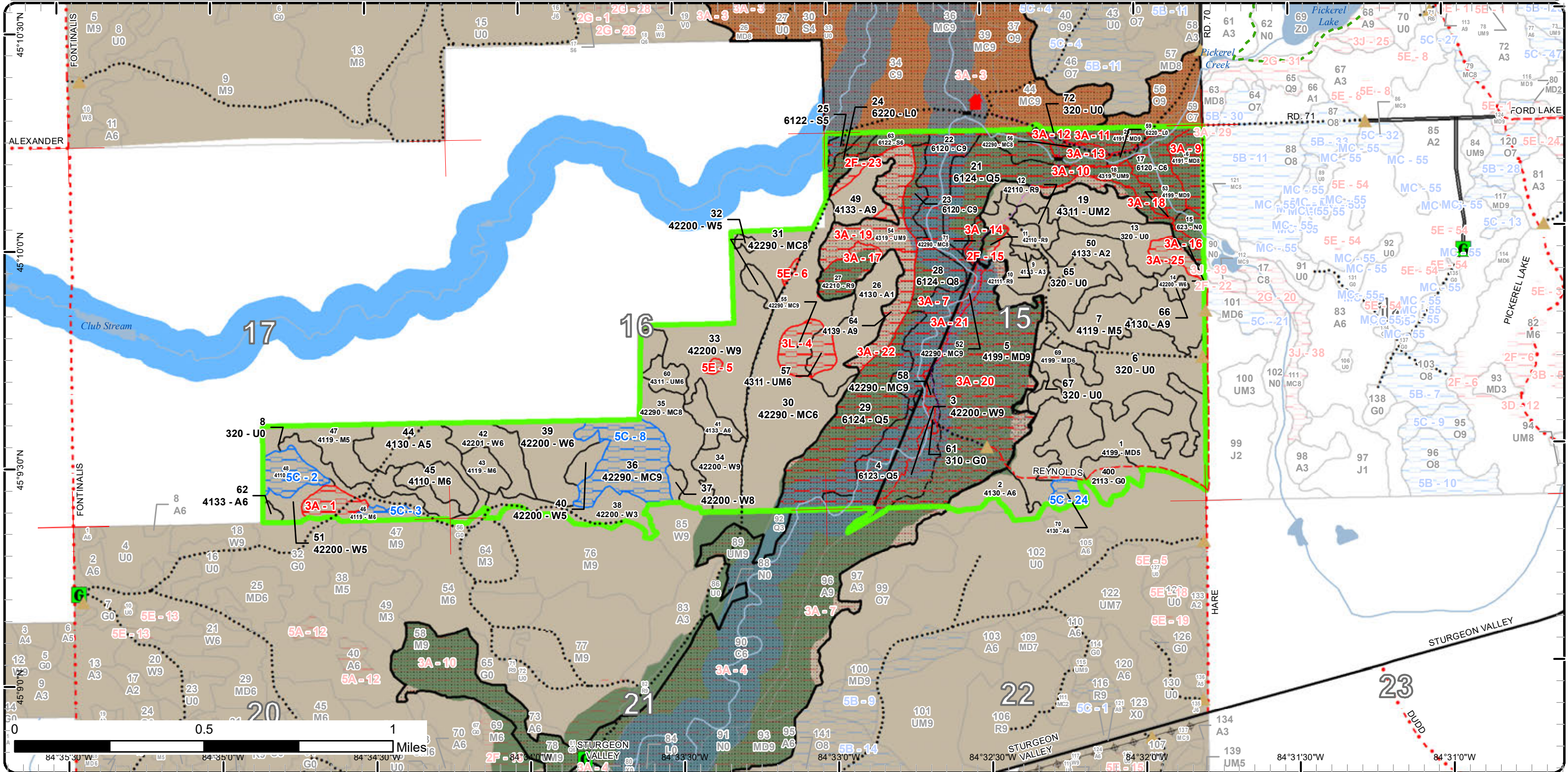


Special Conservation Areas & Site Conditions Map

Compartment: 56
 T32N, R02W, Sec: 15, 16, 17
 County: Otsego
 Unit: Pigeon River Country
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- Miris Corners
- Counties
- DNR - Secondary Forest Road
- Federal / State / County - Paved Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- DNR - Management Access (NLP)
- Designated Hiking Trails
- Designated Bicycle Trails
- Designated Ski Trails
- ▲ Cabin
- ▲ Berms
- G Gate
- Bridges
- ▲ Structures
- Lake/Pond
- Perennial River
- Lakes and Rivers All
- Powerline
- Non-Designated Recreational Trail
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 2F: Too steep
- 3A: Conservation Values incompatible with harvest at this time
- 3L: Other wildlife concerns
- 5E: Long-Term Retention
- Stand Boundaries
- SCA
- SCA Removal
- Dedicated Management Areas
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer
- Habitat Corridor
- Other Habitat Area



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	44	0	0	37	0	1	16	0	2	10	0	0	0	0	0	0	0	110
Cedar	0	0	0	0	0	0	0	0	0	0	0	0	0	49	13	0	0	0	62
Cropland	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
Herbaceous Openland	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Lowland Conifers	0	0	0	0	20	0	0	0	25	0	54	0	0	0	0	0	0	0	99
Lowland Shrub	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	0	0	8	0	0	0	0	0	0	0	8
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	129	16	0	0	0	0	0	0	0	145
Natural Mixed Pines	0	0	0	0	0	0	0	0	27	79	24	0	0	0	0	0	0	3	133
Northern Hardwood	0	0	0	0	0	0	0	0	0	86	7	0	0	0	0	0	0	0	93
Red Pine	0	0	0	0	0	0	0	9	0	0	9	0	0	0	0	0	0	0	17
Upland Mixed Forest	0	18	0	0	5	0	0	0	0	11	21	0	0	0	0	0	0	0	55
Upland Shrub	113	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	113
White Pine	0	0	0	15	1	2	5	0	38	60	14	0	0	0	0	0	0	0	134
Total	134	62	0	15	63	2	6	25	90	367	163	0	0	49	13	0	0	3	990



Report 2 – Treatment Summary

Acres of Harvest

Commercial Harvest - 103
Harvests with Site Condition - 0
Next Step Harvest - 0
Habitat Cut - 0

Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Aspen	12	0	0	0	0	0	0	0	0	12
Mixed Upland Deciduous	0	0	0	11	0	0	0	0	0	11
Northern Hardwood	0	0	0	26	0	0	0	0	0	26
Red Pine	0	0	0	0	0	6	0	0	0	6
White Pine	0	0	0	0	48	0	0	0	0	48
Total	12	0	0	37	48	6	0	0	0	103

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	103	0	0	0	109	0	54	0	29	294
Next Step	0	0	0	0	0	0	205	0	0	205
Total	103	0	0	0	109	0	260	0	29	500



Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
6	53056006-Burn	93.1	320 - Upland Shrub	Nonstocked		Unspecified	Burn	Opening	320 - Upland Shrub		Proposal

Habitat Cut: No

Site Condition:

Prescription Burn to maintain the openings in this area. Burn on a 5 year cycle to promote more of a G type in stands 6 and 65. This will be Unit 1 of the Hare Trail North Rx burn and should be burned at the same time as the smaller unit to the north in stand 65. Stagger the start date of the burn a few years after the burn to the south in Compartment 57 is completed.

Next Step Monitoring, Prescribed Burn
Treatments:

Acceptable Regen:

Other Comment: Mortality to trees in the forested stand (#1) is acceptable but the objective is not to convert this stand to a non-forested condition but rather to keep it in a semi-open condition.

Wildlife will fund this burn.

Proposed Start Date: 10/1 /2020

7	53056007-Cut	26.1	4119 - Mixed Northern Hardwoods	Poletimber Medium	82	51-80	Harvest	Seed Tree with Retention	4191 - Mixed Upland Deciduous with Conifer	Two-Aged	Proposal
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Habitat Cut: No

Site Condition:

Prescription Leave all red oak (2 sq ft BA), white pine (4 sq ft BA), and red pine (2 sq ft BA) which together totals roughly 8 square feet of residual basal area.
Specs: Mark to leave 1-2 of the nicer red maple per acre to retain a representation of this species on site. Mark large diameter, poor form aspen and red maple as cut and leave trees for coarse woody debris and drumming logs, target of 2-3 per acre. Add one pocket of retention in the eastern half of the stand in an area of better red maple quality. Protect red oak saplings from damage.

Next Step Monitoring, Natural Regen (Intermediate)
Treatments:

Acceptable Regen: Medium to fully-stocked stand with any mix of pine, aspen, red maple, and oak being acceptable. A poorly-stocked stand or non-forested stand will not be acceptable.

Other Comment: Roundwood job only, retain slash on site to help discourage browsing.

If browse results in a poorly-stocked or non-forested stand, initiate discussions with WLD and TMS on what tree species will be planted in the stand.

Proposed Start Date: 10/1 /2020

8	53056008-NF	10.1	320 - Upland Shrub	Nonstocked	83	1-50	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Proposal
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Habitat Cut: No

Site Condition:

Prescription Brush, mow, plant, burn and/or herbicide to maintain opening. Planting of hard and/or soft mast.
Specs:

Next Step
Treatments:

Acceptable Regen:

Other Comment:

Proposed Start Date: 10/1 /2020



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
10 53056010-Cut	1.4	42111 - Planted Red Pine, Mixed Deciduous	Sawtimber Well	69	141-170	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	Proposal

Habitat Cut: No

Site Condition:

Prescription Crown thin to 110 square feet. Focus on removing suppressed poletimber and forked stems. Go around other species like aspen and maple as much as possible. Do not mark oak or white pine.

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Proposed Start Date: 10/1 /2020

12 53056012-Cut	4.4	42110 - Planted Red Pine	Sawtimber Well	69	141-170	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	Proposal
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Habitat Cut: No

Site Condition:

Prescription Crown thin to 110 square feet. Focus on removing suppressed poletimber and forked stems. Go around other species like aspen and maple as much as possible. Do not mark oak or white pine.

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Proposed Start Date: 10/1 /2020

13 53056013-NF	11.9	320 - Upland Shrub Nonstocked				Unspec ified	NonForestMgt	Fruit Tree/Shrub Planting	320 - Upland Shrub	Proposal
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Habitat Cut: No

Site Condition:

Prescription Plant a mix of native shrubs in this stand.
Specs: Species can include; hawthorn, serviceberry, wild plum, pin cherry, mountain ash, beaked hazelnut, and arrowwood. Plantings will need fencing to protect from deer and elk browse.

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Proposed Start Date: 10/1 /2020

19 53056019-Monitor	17.6	4311 - Pine, Aspen Mix	Sapling Medium	6	Immature	Monitoring	Natural Regen (Re-Inventory)	413 - Aspen	Even-Aged	Draft Field Boundary
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Habitat Cut: No

Site Condition:

Prescription Natural regen survey.
Specs:

Next Step
Treatments:

Acceptable Aspen that meets stocking guidelines.
Regen:

Other
Comment:

Proposed Start Date: 10/1 /2018



Standard

Standard	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
26	53056026-Monitor	20.1	4130 - Aspen	Sapling Poor	4	Immature	Monitoring	Natural Regen (Re-Inventory)	413 - Aspen	Even-Aged	Draft Field Boundary

Habitat Cut: No **Site Condition:**

Prescription Natural regen survey.
Specs:

Next Step
Treatments:

Acceptable Aspen that meets stocking guidelines.
Regen:

Other
Comment:

Proposed Start Date: 10/1 /2019

33	53056033-Cut	48.3	42200 - Natural White Pine	Sawtimber Well	84	81-110	Harvest	Shelterwood with Retention	4220 - Natural White Pine	Two-Aged	Proposal
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Habitat Cut: No **Site Condition:**

Prescription Shelterwood leaving 30-40 square feet of the largest, best quality trees. Maintain the current white/red pine percentages. Mark some clumps of leave trees where there are dense concentrations of large diameter trees. Retain all legacy trees. Leave all red and white oak. Do not cut any pine under 4" DBH. Require chipping of tops to encourage scarification but also try to protect as much of the existing regeneration as possible.
Specs:

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

Acceptable Fully-stocked stand dominated by white pine with any additional mix of species being acceptable.
Regen:

Other Exclude areas heavy to poletimber or areas of lower BA with a lot of pine regeneration. These are primarily in the north half of the stand. The retention pocket already created in the north excludes one of these poletimber areas. As a result, expect the treatment boundary to shift considerably.
Comment:

All corners are in and a fenceline follows the existing state/private line.

Proposed Start Date: 10/1 /2020

49	53056049-Cut	10.0	4133 - Aspen, Mixed Pine	Sawtimber Well	65	81-110	Harvest	Clearcut	413 - Aspen	Even-Aged	Proposal
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Habitat Cut: No **Site Condition:**

Prescription Clearcut with no area retention due to the small size. Mark to leave one clump per acre of mixed pine and oak. If present, leave white oak of any size or fire-scarred red pine over 18" DBH. Mark 2-3 large diameter, poor form aspen as cut and leave trees for drumming logs.
Specs:

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

Acceptable Fully-stocked stand of aspen with any additional mix of species acceptable.
Regen:

Other Expand the treatment boundary to the east and southeast into areas that have a component of aspen, maple, and/or oak. Stay off of steep slopes and areas that are pure pine.
Comment:

Accessing this stand will be difficult due to the steep slopes along the west/northwest line. Ensure that water bars and slash are placed along the main skid trail into the stand.

Proposed Start Date: 10/1 /2020

50	53056050-Monitor	16.5	4133 - Aspen, Mixed Pine	Sapling Medium	6	Immature	Monitoring	Natural Regen (Re-Inventory)	413 - Aspen	Even-Aged	Draft Field Boundary
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Habitat Cut: No **Site Condition:**

Prescription Natural regen survey.
Specs:

Next Step
Treatments:

Acceptable Aspen regen that meets stocking guidelines.
Regen:

Other
Comment:

Proposed Start Date: 10/1 /2018



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
65 53056065-Burn	15.4	320 - Upland Shrub	Nonstocked		Unspecified	Burn	Opening	320 - Upland Shrub		Proposal

Habitat Cut: No

Site Condition:

Prescription Burn to maintain the openings in this area. Burn on a 5 year cycle to promote more of a G type in stands 6 and 65. This will be Unit 2 of the Hare
Specs: Trail North Rx burn and should be burned at the same time as the larger unit to the south in stand 6. Wildlife will fund this burn.

Next Step Monitoring, Natural Regen (Intermediate)
Treatments:

Acceptable Regen:

Other Comment: Control lines will follow existing roads along the south and west sides. The east/northeast sides will need new line established. Steep side-slopes may make this difficult and expect the treatment lines to shift somewhat. Areas of steep slopes also exist along the two roads. Rehab steep slopes with water bars following burn completion.

Proposed Start Date: 10/1 /2020

66 53056066-Cut	1.7	4130 - Aspen	Sawtimber Well	82	141-170	Harvest	Clearcut	413 - Aspen	Even-Aged	Proposal
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Habitat Cut: No

Site Condition:

Prescription Clearcut all species except for any incidental red pine or white pine. No area retention due to the small size.
Specs:

Next Step Monitoring, Natural Regen (Intermediate)
Treatments:

Acceptable Regen: Fully-stocked stand of aspen.

Other Comment: Roundwood only, retain slash on site to discourage/alleviate browsing.

Proposed Start Date: 10/1 /2020

69 53056069-Cut	10.7	4199 - Other Mixed Upland Deciduous	Poletimber Well	82	81-110	Harvest	Seed Tree with Retention	4191 - Mixed Upland Deciduous with Conifer	Two-Aged	Proposal
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Habitat Cut: No

Site Condition:

Prescription Leave all oak which comprises 13 sq ft of BA and leave all red and white pine over 10" DBH. Mark 1-2 large diameter, poor form aspen per acre
Specs: as cut and leave trees for drumming logs. Use area retention to exclude a few small areas along the west edge that are heavy to white pine poletimber.

Next Step Monitoring, Natural Regen (Intermediate)
Treatments:

Acceptable Regen: Any mix of species that results in a medium to well-stocked stand. Similar to adjacent stand 7, if browse results in a poorly-stocked stand, consult with TMS and WLD on next steps to plant trees in the stand.

Other Comment:

Proposed Start Date: 10/1 /2020

400 53056400-NF	6.9	2113 - Forage Crops	Nonstocked		Unspecified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Proposal
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Habitat Cut: No

Site Condition:

Prescription Brush, mow, plant, burn and/or herbicide to maintain opening. Planting of hard and/or soft mast.
Specs:

Next Step
Treatments:

Acceptable Regen:

Other Comment:

Proposed Start Date: 10/1 /2020



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
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Total Treatment Acreage Proposed: 294.2

Report 4 – Site Conditions

Pigeon River Country Mgt. Unit

Compartment: 56

Greg Rekowski : Examiner

Year of Entry: 2021

Availability for Management

Total Acres	Acres Available	Acres Avail		Acres Not Available	Dominant Site Conditions							
		With Condition			5C	2F	3A	3J	3L	5E		
109	94	4		12	Aspen	4	2	10				
62	0	0		62	Cedar			62				
9	9	0		0	Cropland							
1	1	0		0	Herbaceous Openland			0				
99	0	0		99	Lowland Conifers			99				
7	0	0		7	Lowland Shrub			7				
7	0	0		7	Lowland Spruce/Fir			7				
3	0	0		3	Marsh			3				
145	45	0		100	Mixed Upland Deciduous			100				
133	89	27		18	Natural Mixed Pines	27	0	11		7	0	
93	69	12		12	Northern Hardwood	12		12				
18	6	0		12	Red Pine		3	9				
55	23	0		32	Upland Mixed Forest			28		4		
113	111	0		2	Upland Shrub	0	0	2				
135	122	0		14	White Pine	0		12	0			2
988	566	43		379	Total Forested Acres	43	5	361	0	11	2	
	57%	4%		38%	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	3A: Conservation Values incompatible with harvest at this time	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments: This part of stand 46 has a heavy hemlock component in the understory. Do not manage.							
2	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Pigeon River Country Mgt. Unit

Compartment: 56

Greg Rekowski : Examiner

Year of Entry: 2021

3	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments: This part of stand 46 should be managed with the adjacent hardwood stands to the south in Compartment 57.							
4	Unavailable	3L: Other wildlife concerns	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments: This is the buffer area for an active goshawk nest that was excluded from the surrounding harvests in stands 26 and 30.							
5	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	3A: Conservation Values incompatible with harvest at this time	179	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments: All of these stands are a part of the Sturgeon River Valley SCA and will not be managed. All are too wet anyways for commercial management.							
8	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	27	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Pigeon River Country Mgt. Unit

Compartment: 56

Greg Rekowski : Examiner

Year of Entry: 2021

9	Unavailable	3A: Conservation Values incompatible with harvest at this time	10	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: This stand is part of the Sturgeon River Valley SCA and will not be managed. There are several steep slopes in this stand anyways which would limit commercial management.</p>							
10	Unavailable	3A: Conservation Values incompatible with harvest at this time	6	2F: Too steep	Unspecified	Unspecified	Unspecified
<p>Comments: This stand is part of the Sturgeon River Valley SCA and will not be managed. This entire stand sits on a very steep slope.</p>							
11	Unavailable	3A: Conservation Values incompatible with harvest at this time	8	1A: Federal/State/Local Law	Unspecified	Unspecified	Unspecified
<p>Comments: This stand is part of the Sturgeon River Valley SCA and will not be managed. There are several steep slopes in this stand anyways which would limit commercial management. Most of this stand also lies in the cold water buffer for Pickerel Creek which is a tributary of the Sturgeon River.</p>							
12	Unavailable	3A: Conservation Values incompatible with harvest at this time	2	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: This stand is part of the Sturgeon River Valley SCA and will not be managed.</p>							
13	Unavailable	3A: Conservation Values incompatible with harvest at this time	4	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
<p>Comments: This stand is part of the Sturgeon River Valley SCA and will not be managed. It is also directly adjacent to Pickerel Creek.</p>							

Report 4 – Site Conditions

Pigeon River Country Mgt. Unit

Compartment: 56

Greg Rekowski : Examiner

Year of Entry: 2021

14	Unavailable	3A: Conservation Values incompatible with harvest at this time	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: This stand is part of the Sturgeon River Valley SCA, no management.							
15	Unavailable	2F: Too steep	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Steep slope.							
16	Unavailable	3A: Conservation Values incompatible with harvest at this time	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Stand is part of the Sturgeon River Valley SCA, no management. Stand lies at the base of a pretty steep slope.							
17	Unavailable	3A: Conservation Values incompatible with harvest at this time	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Leave this stand unmanaged as part of the Sturgeon River Valley SCA. There are also a few steep slopes in the stand.							
18	Unavailable	3A: Conservation Values incompatible with harvest at this time	6	2F: Too steep	Unspecified	Unspecified	Unspecified
Comments: Stand is part of the Sturgeon River Valley SCA, no management. A large part of this stand lies on a steep side slope.							
19	Unavailable	3A: Conservation Values incompatible with harvest at this time	21	Unspecified	Unspecified	Unspecified	Unspecified
Comments: This stand is part of the Sturgeon River Valley SCA and will not be managed. A large part of this stand, at least half, lies on steep slopes as well.							

Report 4 – Site Conditions

Pigeon River Country Mgt. Unit

Compartment: 56

Greg Rekowski : Examiner

Year of Entry: 2021

20	Unavailable	3A: Conservation Values incompatible with harvest at this time	88	Unspecified	Unspecified	Unspecified	Unspecified
Comments: These stands are part of the Sturgeon River Valley SCA and will not be managed. Stand 5 also has a large amount of steep slopes along the western half of the stand.							
21	Unavailable	3A: Conservation Values incompatible with harvest at this time	2	2F: Too steep	Unspecified	Unspecified	Unspecified
Comments: Stand is part of the Sturgeon River Valley SCA and will not be managed. Stand sits on a very steep slope.							
22	Unavailable	3A: Conservation Values incompatible with harvest at this time	10	2F: Too steep	Unspecified	Unspecified	Unspecified
Comments: This stand is part of the Sturgeon River Valley SCA. All of this stand lies on a very steep slope as well.							
23	Unavailable	2F: Too steep	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
24	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Small stand to cut on it's own as it would be susceptible to browse damage. Hold off on treatment until next entry when it can be grouped with the adjacent stand 2 to the west.							

Report 4 – Site Conditions

Pigeon River Country Mgt. Unit

Greg Rekowski : Examiner

Compartment: 56

Year of Entry: 2021

25	Unavailable	3A: Conservation Values incompatible with harvest at this time	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments: This part of stand 7 will be included in the Sturgeon River Valley SCA that encompasses most of the lowlands, side-slopes and ridgetops in the Compartment. This stand follows the same ridgeline and side-slopes as the other stands to the north and west and has some moderately steep slopes.							



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
Sturgeon River Valley SCA	Habitat Area	Habitat Corridor	SCA	348
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.
HCVA	Dedicated Management Areas	Such areas are dedicated by the DNR Director for specific management uses through the promulgation of rules, as governed by Part 5, Department of Natural Resources, of the NREPA (MCL 324.502(2) and 324.504). Section 38 of the Administrative Procedures Act (MCL 24.238) provides for public requests for the promulgation of rules. This is an active program, with one proposed site currently under review by the DNR.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																										
1	4199 - Other Mixed Upland Deciduous	Poletimber Medium	33.8	81	51-80	N/A	Poor-quality stand that alternates between clumps of multi-stemmed red maple, aspen clones, and open areas. Open areas tend to have a lot of non-merchantable cherry in them. There are also a few areas dominated by white pine. At least two age classes of bigtooth aspen are present, and maybe more, as trees in all 3 size classes can be found, including some large, old trees. The quaking aspen component does not appear healthy and is dying off in spots. The red maple understory is heavily browsed in many places. Average ba/acre from 18 plots = 51 square feet. Do not manage this stand. Burn it periodically.																																																										
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2	4130 - Aspen	Poletimber Well	10.2	39	81-110	N/A	Aspen looks good but still a lot of small diameters, especially in the west half of the stand where many of the stems are just barely merchantable. Nice red oak which is most common in the middle part of the stand. A few very large, gnarly aspen on the far eastern edge. Average ba/acre from 7 plots = 84 square feet. Stand could be ready for a harvest next entry. If so, group with stand 70 to the east.																																																										
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3	42200 - Natural White Pine	Sawtimber Well	9.9	82	51-80	N/A	Moderate quality white pine stand that borders the Sturgeon River. More deciduous species and white pine poletimber as you get closer to the east edge of the stand. Several open, non-forested areas mixed in. An old road runs lengthwise through the stand. Terrain is flat. Trace of tamarack, cedar, and jack pine. Average ba/acre from 6 plots = 72 square feet. No management as stand is part of the Sturgeon River Valley SCA.																																																										
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4	6123 - Lowland Fir	Poletimber Medium	19.6	39	51-80	N/A	Two-aged stand dominated by young fir and an older age class of cedar. The cedar tends to be concentrated along the Sturgeon River, which runs through the middle of the stand. This is a strange stand in that it almost looks like it was cut at some point? However, I'm not sure how they could have gotten equipment to this area. My best guess is that this was flooded by beavers long ago and upon drying out allowed the younger trees to fill in. There is a small branch of the river along the eastern edge of the stand that has signs of old beaver activity which would support that guess. Large amount of cedar blowdown along the east side. Not positive on the spruce ID but it looks to me like both species are present. Average ba/acre from 10 plots = 70 square feet.																																																										
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5	4199 - Other Mixed Upland Deciduous	Sawtimber Well	76.9	84	81-110	N/A	Moderate quality mixed-species stand. Oak is generally pretty good quality but is not always dominant throughout the stand. Overall stocking tends to vary somewhat as there are a few places with lower basal areas. Some of these areas almost look like they had a partial harvest, possibly while under private ownership, as there are a few pockets of smaller aspen and maple, especially at the far south end. Nice understory of white pine, which is recruiting into the overstory in many places. The aspen tends to occur in small clumps throughout the stand. Trace of white oak in the overstory. Terrain in the east half of the stand is mostly flat while the west half is on a west-facing slope, with some of the slopes being very steep. Average ba/acre from 19 plots = 93 square feet. Leave this stand unmanaged as part of the Sturgeon River Valley SCA.																																																															
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6	320 - Upland Shrub	Nonstocked	62.6		Unspecified	No	Nice shrub complex, although there is much less coverage than the adjacent shrub stand to the south in Compartment 57 (stand #102). Shrub diversity is limited to black cherry and sweetfern. Some scattered patches of trees are present but represent a very low amount overall. Old fire-charred stumps are common throughout. Gently rolling terrain. Burn this stand on a 5 year interval to maintain this stand as more of a G type.																																																															
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7	4119 - Mixed Northern Hardwoods	Poletimber Medium	35.5	82	51-80	N/A	Red maple dominated stand of poor to mediocre quality, almost all stems are stump sprout origin. Numerous areas of low stocking are present, especially in the western half of the stand. Grass and sedge are taking over some of these open areas. The best quality and stocking is found in the eastern half of the stand. Aspen is scattered infrequently throughout in small clumps and is mostly poor-quality with a lot of rot. A small amount of younger aspen has re-sprouted in some of the open areas. Red maple seedlings present in a couple of spots but all are heavily browsed. A few areas with advanced oak regeneration in the understory, these are mostly at the far eastern end near the road. Average ba/acre from 20 plots = 56 square feet.																																																															
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
8	320 - Upland Shrub	Nonstocked	10.1	83	1-50	No	Mostly open stand but white pine is beginning to fill in a few spots. More cherry in the east/southeast half of the stand.	
		Canopy Species		Density	Avg. Height	Size		
		White Pine		Medium	Variable	Sapling		
		White Pine		Low	>20 feet	Log		
		White Pine		Trace	Variable	Pole		
		Basswood		Trace	>20 feet	Log		
		Red Oak		Trace	>20 feet	Log		
		American Elm		Trace	>20 feet	Log		
		Red Maple		Trace	>20 feet	Log		
		Sugar Maple		Trace	>20 feet	Log		
		Black Cherry		Medium	Variable	Tall Shrub		
		Bracken Fern		Full	Unspecified	Non-Wood		
		Mixed Grasses		Medium	Unspecified	Non-Wood		
9	4133 - Aspen, Mixed Pine	Sapling Well	7.6	6	Immature	N/A	Stand harvested in 2014 as part of "1st Run GT Aspen", #53-005-11-01, bought by Northern Timberlands, whole-tree harvest. All pine and oak were left. Aspen has regenerated well here and is only showing moderate browse impacts up to this point. On the other hand, red maple stump sprouts have mostly been wiped out by browse. Red oak residual is healthy.	
		Canopy Species		Density	Avg. Height	Size		
		Black Cherry		Medium	< 5 feet	Tall Shrub		
Canopy Species		% Cover	Size Class	DBH	Age			
White Pine		17	Sapling/Pole	3				
Red Pine		10	Pole/Log	9				
Bigtooth Aspen		64	Sapling	1	6			
10	42111 - Planted Red Pine, Mixed Deciduous	Sawtimber Well	1.4	69	141-170	N/A	Stand looks good and could be thinned. There is a little bit of mortality on some smaller poletimber stems but I'm guessing that's competition induced. Aspen is more prevalent along the southern edge. Stand sits on a slight side-slope but nothing that would impede harvesting equipment. Average ba/acre from 4 plots = 170 square feet.	
		Canopy Species		Density	Avg. Height	Size		
		White Pine		Low	Variable	Sapling		
Canopy Species		% Cover	Size Class	DBH	Age			
Bigtooth Aspen		10	Log	12				
Red Maple		11	Pole/Log	8				
11	42110 - Planted Red Pine	Sawtimber Well	2.7	69	201+	N/A	Fully-stocked stand of planted red pine that is due for a thinning but it sits on a steep side slope. Some dying poletimber size trees in the north half, maybe competition induced mortality? Average ba/acre from 4 plots = 243 square feet.	
		Canopy Species		Density	Avg. Height	Size		
		White Pine		Medium	Variable	Sapling		
Canopy Species		% Cover	Size Class	DBH	Age			
Red Maple		7	Pole	7				
Red Pine		86	Log/Pole	10	69			
12	42110 - Planted Red Pine	Sawtimber Well	4.4	69	141-170	N/A	Stand looks good, could be thinned. Rows are not very obvious in all places so it would have to be a free thin. A few areas of lower stocking in the NW end. Average ba/acre from 5 plots = 160 square feet.	
		Canopy Species		Density	Avg. Height	Size		
		White Pine		Low	Variable	Sapling		
Canopy Species		% Cover	Size Class	DBH	Age			
Red Maple		10	Pole	7				
Red Pine		86	Log/Pole	10	69			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments									
13	320 - Upland Shrub	Nonstocked	12.3		Unspecified	No	The majority of this stand sits in a meandering valley in between rolling hills. The south end has the greatest amount of cherry. Old pine stumps are common throughout.									
								Canopy Species	Density	Avg. Height	Size					
								White Pine	Low	Variable	Sapling					
								White Pine	Trace	>20 feet	Pole					
								Quaking Aspen	Trace	>20 feet	Pole					
								Black Cherry	Medium	Variable	Tall Shrub					
								Sweet Fern	High	< 5 feet	Tall Shrub					
Spotted Knapweed	Low	Unspecified	Non-Wood													
14	42200 - Natural White Pine	Poletimber Well	2.1	44	81-110	N/A	Several sizes of white pine are present, the larger ones are likely much older than the listed age. Stand sits at the bottom of a slope. Some lower-stocked areas in the south half. Average ba/acre from 4 plots = 103 square feet.									
								Canopy Species	% Cover	Size Class	DBH	Age	Canopy Species	Density	Avg. Height	Size
								Red Pine	8	Log	11		Red Maple	Medium	Variable	Sapling
								White Pine	87	Pole/Log	8	44	White Pine	Low	Variable	Sapling
													Balsam Fir	Trace	Variable	Sapling
													White Spruce	Trace	Variable	Sapling
													Black Cherry	Low	Variable	Tall Shrub
15	623 - Emergent Wetland	Nonstocked	3.5		Unspecified	No	Two active beaver dams, one at the south end and one at the north end, have flooded much of this stand. There is a lot of water in this stand as of now.									
								Canopy Species	Density	Avg. Height	Size					
								White Pine	Low	Variable	Sapling					
								Balsam Fir	Trace	Variable	Sapling					
								White Spruce	Trace	Variable	Sapling					
								Northern White Cedar	Trace	>20 feet	Pole					
								Tag Alder	Medium	5 - 10 feet	Tall Shrub					
Cattail spp.	Medium	Unspecified	Non-Wood													
16	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Medium	9.5	96	81-110	N/A	Moderate to low quality mixed species stand. Sporadic stocking. Some pockets of fire-scarred natural red pine in the center of the stand. White pine increases in abundance at the south end. Red oak quality is generally low but there are a few very large trees here and there. Aspen is limited to a few small clones along the east edge near the road. Rolling terrain with some steep slopes. Average ba/acre from 5 plots = 92 square feet. This stand was has been nominated for inclusion in the Green Timbers/Sturgeon River Valley SCA. Due to the species mix and terrain this stand should remain under that designation.									
								Canopy Species	% Cover	Size Class	DBH	Age	Canopy Species	Density	Avg. Height	Size
								Bigtooth Aspen	13	Log/Pole	12		White Pine	High	Variable	Sapling
								Red Oak	25	Log/XLog	14		White Spruce	Trace	Variable	Sapling
								Red Pine	17	Log/Pole/XLog	12		Balsam Fir	Low	Variable	Sapling
								White Pine	13	Pole/Log	8					
								Red Maple	31	Pole/Log	8	96				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																													
17	6120 - Lowland Cedar	Poletimber Well	12.7	137	141-170	N/A	Moderate quality cedar stand with some areas of dense stocking. Philips Creek flows north through the stand and merges with Pickerel Creek, which flows east to west through the stand. Quite a bit of cedar blowdown adjacent to the streams. A few areas of cedar decline in the wetter areas of the stand. Some upland transitional areas along the edges which have most of the pine and deciduous species. There are some very large diameter spruce trees in the stand which must be white spruce, otherwise they would be record size black spruce. Difficult to distinguish between the two in this stand. Average ba/acre from 6 plots = 157 square feet.																																													
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18	4319 - Mixed Upland Forest	Sawtimber Well	6.3	85	111-140	N/A	Nice mixed species stand, almost all of which sits on a very steep north/northeast facing slope. A small amount of wet ground at the base of the slope. Some very large diameter pine are present. Trace of hemlock. Average ba/acre from 6 plots = 120 square feet.																																													
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19	4311 - Pine, Aspen Mix	Sapling Medium	17.6	6	Immature	N/A	Stand harvested in 2014 as part of "1st Run GT Aspen", #53-005-11-01, bought by Northern Timberlands, whole-tree harvest. All pine and oak were left. Operators did a good job of protecting advanced white pine regeneration from damage, the far west end in particular has a lot of advanced regeneration that was not cut. New regeneration is primarily aspen and red maple and does not look too great. Browse has killed the majority of red maple stump sprouts, which was the primary volume removed. The aspen component hasn't been browsed too heavily yet but there just isn't much of it overall, it's mostly in the middle portion of the stand. The east half of the stand has some areas without much regeneration at all. The red oak residual is healthy. Do a regen survey in 4 years to see if the aspen survives the browse.																																													
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20	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	7.5	89	81-110	N/A	Moderate quality mixed species stand that sits on a ridgeline and south facing side-slope. Some of the slopes are steep, particularly at the east and west ends. The middle part of the stand has a more gradual slope and is also where there are some areas of lower stocking. Most red pine is at the far west end and appears planted. The aspen component is present in patchy clones, not uniform throughout. Trace of white oak. Average ba/acre from 9 plots = 96 square feet. Retain as part of the Sturgeon River Valley SCA and do not manage. Slopes would reduce the treatment size in about half anyways.																																													
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21	6124 - Lowland Spruce-Fir	Poletimber Medium	25.3	75	51-80	N/A	Moderate quality swamp conifer stand but stocking is poor throughout. There is also a large portion of the northern half of the stand that is currently flooded due to beaver activity on Pickerel Creek in the adjacent stand to the north. The majority of the trees in the flooded area are dead or dying. The quaking aspen component, most prevalent in the east finger of the stand, has mostly been dropped by beavers at this point. Areas of upland ground are present all along the eastern edge of the stand. Average ba/acre from 12 plots = 63 square feet.																																																							
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22	6120 - Lowland Cedar	Sawtimber Well	43.7	124	111-140	N/A	Cedar dominated stand that borders the Sturgeon River on both sides. Cedar quality is generally very high however many pockets of decline are present, usually in the wettest areas. Some areas of blowdown as well. The south half of the stand has some large diameter cedar trees, many in excess of 18 inches DBH. Signs of old beaver activity scattered throughout the stand but nothing new except for the far eastern finger of the stand which has two big dams and is mostly flooded, which has resulted in a large amount of tree mortality. At this far eastern end there is also a small hiking trail and bridge which cross Pickerel Creek. Average ba/acre from 12 plots = 111 square feet.																																																							
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23	6120 - Lowland Cedar	Sawtimber Well	5.7	127	111-140	N/A	More diverse lowland stand than the adjacent cedar stand to the east. There are some areas of upland mixed in along the west edge. Birch used to be a much larger component but a lot of it has died. The cedar is mostly healthy with some large diameter trees present, however there is some scattered blowdown here and there. Supercanopy of massive white pine, most in the 20-30" DBH range. Trace of red pine, balsam poplar, quaking aspen, and tamarack. Average ba/acre from 6 plots = 132 square feet. An old grade runs east-west through the far southern end of the stand.																																																							
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24	6220 - Alder/willow	Nonstocked	5.3	102	Unspecified	No	Wet stand with a thick alder and wetland shrub component. Spruce and tamarack have filled in quite a bit, especially east of the road. West of the road doesn't have as much but does have some larger log size spruce. The northwestern part of the stand has a small stream flowing through it. Next entry may be able to type this stand out as an S4. Current average ba/acre from 5 plots = 18 square feet.																																																							
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25	6122 - Black Spruce	Poletimber Medium	2.6	94	51-80	N/A	Nice spruce stand although stocking is somewhat variable. The ground seems to be about 50/50 upland/lowland with the upland areas mostly in the middle of the stand. The west edge of the stand borders a small stream. Trace of red oak. Average ba/acre from 7 plots = 56 square feet.																																																							
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26	4130 - Aspen	Sapling Poor	20.1	4	Immature	N/A	Stand was cut in the winter of 2015-16 as part of Rusty Shotgun Mix, #53-010-11-01, bought by Precision, roundwood job. Prior to being clearcut this stand had a large amount of natural pine and oak, including some large white oak. Regeneration has come back to mostly just aspen as this point. The aspen at the north and south ends have been hit hard by elk browse. The middle portion of the stand looks ok up to this point. Oak and maple sprouts have mostly been eliminated due to browse, I doubt any will make it. Do a formal natural regeneration survey at the 4 year window in the 2020 YOE to determine if stocking levels are acceptable.																																																							
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27	42210 - Natural Red Pine	Sawtimber Well	9.1	95	171-200	N/A	Very nice stand of red pine, the majority of which sits on a west/southwest facing side-slope. No sale records for this area, did not see any definitive rows. Old fire-charred stumps common throughout so this may be a natural stand. Doesn't appear that there has ever been a treatment here. Average ba/acre from 8 plots = 180 square feet.																																																							
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28	6124 - Lowland Spruce-Fir	Sawtimber Medium	9.2	94	1-50	N/A	Not a very well-stocked stand with what appears to be a mix of both black and white spruce. Many open grown trees. There is some dry ground mixed in here and there. Old notes indicate there used to be more aspen here but the beavers removed most of it over the years. There used to be some black ash in the stand as well but EAB has killed it all. Younger balsam poplar is mostly at the southwestern end of the stand. Average ba/acre from 6 plots = 35 square feet. Trace of paper birch and red oak.																																																							
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29	6124 - Lowland Spruce-Fir	Poletimber Medium	44.8	92	51-80	N/A	High quality spruce stand, although stocking declines significantly in the north half of the stand. The south half is well-stocked and includes a grove of large diameter, healthy cedar. There appears to be both species of spruce in the stand, although dominated by black spruce. A few areas of dry ground are present. Trace of balsam poplar. Average ba/acre from 14 plots = 79 square feet.																																																							
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30	42290 - Natural Mixed Pine	Poletimber Well	63.0	82	81-110	N/A	Stand was cut as part of Rusty Shotgun Mix, #53-010-11-01, bought by Precision. Roundwood job winter 2015-16. Nice natural pine stand with a variety of diameters including quite a bit of poletimber. There are some scattered old legacy trees mixed in here and there. Stand was previously a part of the Sturgeon River Valley SCA and was not going to be managed but this designation was removed during the 2011 YOE. Trace of red oak, balsam poplar, and red maple. Average ba/acre from 13 plots = 94 square feet.																																		
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31	42290 - Natural Mixed Pine	Sawtimber Medium	3.4	84	51-80	N/A	Stand was cut as part of Rusty Shotgun Mix, #53-010-11-01, bought by Precision. Roundwood job winter 2015-16. Some white pine seedlings starting to show up in the understory. Trace of red oak. Average ba/acre from 4 plots = 55 square feet.																																		
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32	42200 - Natural White Pine	Poletimber Medium	1.2	39	1-50	N/A	This stand was apparently used as a landing when the surrounding stands were thinned while under private ownership. There is a still a small grassy opening at the east end. The remainder has filled in with pine and a few pockets of aspen. There is also some larger pine mixed in. Average ba/acre from 3 plots = 37 square feet.																																		
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33	42200 - Natural White Pine	Sawtimber Well	50.3	84	81-110	N/A	Pretty nice pine stand with a variety of diameters being present, including a small amount of large, old legacy trees. Stand was harvested while under private ownership, removing everything except pine and oak. As a result, the stocking is quite variable. Areas with a lower BA have thick pine regeneration, mostly white pine, although some of the more heavily impacted areas, like skid trails, have some red pine regeneration. Gently rolling terrain. Average ba/acre from 17 plots = 101 square feet. All corners are in.																																		
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34	42200 - Natural White Pine	Sawtimber Well	12.2	93	111-140	N/A	Two-aged stand that is a result of a species removal harvest while under private ownership. Everything was cut except for pine and oak, as a result the residual pine stocking is quite variable. There is a wide variety of diameters on the pine, including some large legacy trees. The aspen component is still quite small at this point and the greatest amount seems to be in the middle part of the stand. There are a couple larger aspen here and there that appear to have been missed. Most of the stand is on a slight side-slope which grades down to the east. Trace of white spruce and white oak. Average ba/acre from 7 plots = 116 square feet. No management until the aspen matures but the MO should be pine.																																		
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35	42290 - Natural Mixed Pine	Sawtimber Medium	22.1	93	51-80	N/A	Stand cut as part of Rusty Shotgun Mix, #53-010-11-01, bought by Precision. Roundwood harvest winter 2015-16. Residual stand is pretty good quality. Patches of white pine regeneration were protected from damage, more so in the south 1/2 of the stand. Not much sign of new ingrowth yet, evaluate next cycle. Not much scarification took place during the harvest which may impede some pine regeneration. Quite a bit of grass and sedge is growing in, likely due to the deer and elk, which may also impact regeneration success. Average ba/acre from 10 plots = 67 square feet. All corners are in.																																		
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																		
36	42290 - Natural Mixed Pine	Sawtimber Well	26.6	74	111-140	N/A	Nice stand of natural mixed pine although there are quite a few forked stems and suppressed poletimber. A few areas are heavy to red pine. Stocking is somewhat clumpy as there are some areas with lower basal areas. May have been thinned long ago while under private ownership. A second age class of older and larger pine is present, previous inventory noted an age of 87. Current age was taken from an 11" red pine. Trace of jack pine. Rolling terrain. Average ba/acre from 10 plots = 140 square feet. Good goshawk habitat.																																		
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37	42200 - Natural White Pine	Sawtimber Medium	2.2	93	51-80	N/A	Stand was originally a part of the same stand (#35) to the east that was recently harvested, but was not included for some reason. Is different from stand 36 to the west in that this stand appears to have had a harvest while under private ownership, likely a species removal. Current stand has a variety of diameters on the overstory pine. Small clone of aspen at the northeast side and then a few scattered ones mixed in throughout the rest. Heavy white pine understorey. Trace of red oak. Average ba/acre from 3 plots = 73 square feet.																																		
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38	42200 - Natural White Pine	Sapling Well	15.1	24	Immature	N/A	Stand was cut in 1994. Scattered white pine residual was left which includes some very large trees. A few clumps of hemlock are mixed in as well. Thick white pine regeneration throughout most of the stand with the exception of the roads and the west end which is a bit more open. Rolling terrain.																																		
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39	42200 - Natural White Pine	Poletimber Well	20.1	74	111-140	N/A	Moderate quality white pine poletimber stand. A second age class of larger, older pine is present. Red pine is somewhat clumpy and not uniform throughout, except for an elevated knob in the middle of the stand which is mostly red pine. The remainder of the stand is on gently rolling terrain. The bigtooth aspen component is almost entirely at the far northwest and northeast corners of the stand. Quaking aspen is scattered throughout but dying out. Trace of red oak. Average ba/acre from 11 plots = 120 square feet. Let grow another entry and thin with stand 36 to the east.																																		
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40	42200 - Natural White Pine	Poletimber Medium	4.5	74	51-80	N/A	Poor-quality stand that is not very well-stocked. Looks to me like it had a partial harvest long ago while under private ownership. The existing white pine poletimber is quite old despite its small size. Average ba/acre from 5 plots = 78 square feet.																																		
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41	4133 - Aspen, Mixed Pine	Poletimber Well	6.8	38	81-110	N/A	Stand was harvested while under private ownership, cutting everything except pine and oak. Aspen came back pretty well although diameters are still very small due to the competition with the pine. A few patches of nice red pine regeneration are present, mostly along an old road that travels through the middle of the stand. Trace of white oak. Average ba/acre from 6 plots = 85 square feet. Treat next entry with stand 34 to the south.																																		
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42	42201 - Natural White Pine, Mixed Deciduous	Poletimber Well	12.9	78	51-80	N/A	Stand had all the aspen removed while under private ownership. The resulting stand is a patchwork of residual white pine, younger white pine regeneration, and pockets of aspen. The majority of the aspen is in the north half of the stand. The south half is less well-stocked and predominantly pine. Trace of red maple. Flat terrain. Average ba/acre from 7 plots = 79 square feet. Look at treating this with stand 44 to the west next entry.																																								
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43	4119 - Mixed Northern Hardwoods	Poletimber Well	6.6	94	81-110	N/A	Poor quality, small diameter hardwoods. Stand sits on an elevated knob with slight slopes on the sides. Best quality is found on the east side-slope. Trace of paper birch. Average ba/acre from 7 plots = 110 square feet. Good representation of white pine, allow it to continue to take over. No even-aged management due to the high browse pressure in the area.																																								
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44	4130 - Aspen	Poletimber Medium	20.0	39	51-80	N/A	Stand was harvested while under private ownership. Resulting aspen regeneration is patchy with numerous non-forested areas mixed in as browse must have had an impact. Many of the open areas are starting to fill in with white pine. Ironwood is predominantly found in the understory of the aspen clones. Site quality appears to be quite good based on the size of some of the residual hardwoods that were not cut, however no new ingrowth of maple or basswood is taking place, due to the high browse pressure in the area. Trace of elm and balsam fir. Average ba/acre from 13 plots = 69 square feet. The quaking aspen component is still small at this time. Next entry it should be ready for a harvest and group it with stand 42 to the east.																																								
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45	4110 - Sugar Maple Association	Poletimber Well	9.9	86	81-110	N/A	Moderate quality hardwood stand with variable stocking as there are a few small open areas mixed in throughout. May have had a partial harvest while under private ownership? Similar to other stands in the area, there are quite a few small diameter stems in this stand. A few short, moderately steep slopes are present. Trace of white pine and yellow birch. Possibly a seasonally wet area in the SE portion, as there were several old tip-up mounds present. Average ba/acre from 7 plots = 109 square feet. Could use a TSI but should probably schedule at the same time the aspen stand to the north is managed, in an attempt to spread out the browse pressure.																																								
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46	4119 - Mixed Northern Hardwoods	Poletimber Well	10.1	86	111-140	N/A	Moderate quality hardwood stand with a quite a few small diameter trees. Hemlock is a significant component of the understory, especially the portion of the stand west of the road. Many of the hemlock have porcupine damage although most appear healthy. Most of the beech have BBD. Trace of white pine and black cherry. Average ba/acre from 8 plots = 131 square feet. West half of stand should not be managed due to the heavy hemlock component. East half could be thinned but is small acreage and the adjacent stand to the south in Compartment 57 was recently thinned.																																								
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47	4119 - Mixed Northern Hardwoods	Poletimber Medium	21.7	86	51-80	N/A	Semi-open hardwood stand with small open areas mixed in throughout. This must have had a partial harvest at one point while under private ownership. Ironwood is the primary regrowth although there are some nice patches of white pine filling in, especially in the north half. A few clumps of aspen are present, mostly at the far northwestern portion of the stand. Autumn olive is scattered throughout but not yet taking over. Found a small patch of oriental bittersweet in the middle of the stand. Average ba/acre from 14 plots = 55 square feet per acre. Let white pine continue to fill in and eventually this stand will be suitable for management years down the road.																																																						
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48	4110 - Sugar Maple Association	Poletimber Well	9.3	86	111-140	N/A	Moderate quality hardwood stand with a lot of small diameter sugar maple, especially in the interior of the stand. Larger sawlog-sized trees are mostly along the edges of the stand. A lot of old and suppressed sugar maple saplings are present as well. White pine is along the south edge. Trace of elm and yellow birch, although most of them appear dead. Average ba/acre from 6 plots = 140 square feet. Stand could use a TSI to get rid of the poor-quality suppressed trees but volume would be almost exclusively poletimber.																																																						
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49	4133 - Aspen, Mixed Pine	Sawtimber Well	12.2	65	81-110	N/A	Mixed species stand with several areas of steep slopes, mostly along the north/northwest stand lines. Aspen is poor-quality and not uniform throughout. Several areas where aspen is not present and is heavy to pine. Nice understory of developing white pine. Majority of the red pine is in the south half. Trace of white oak and paper birch. Average ba/acre from 12 plots = 107 square feet. Stand was formerly a part of the Sturgeon River Valley SCA but was removed from this during the 2011 YOE.																																																						
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50	4133 - Aspen, Mixed Pine	Sapling Medium	16.1	6	Immature	N/A	Stand harvested in 2014 as part of "1st Run GT Aspen", #53-005-11-01, cut by Northern Timberlands, whole-tree harvest. All pine and oak were left including advanced white pine regeneration. This stand mostly follows a ridgeline except for some side-slopes that were harvested. Small area of retention was left on the northeast side. New regeneration is primarily aspen and red maple. The red maple stump sprouts have been hit very hard by browse and most appear dead. The aspen regeneration is patchy and not uniform throughout but looks ok, browse impacts are only moderate up to this point. Do a regen survey in 4 years to see if the aspen survives the browse.																																																						
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51	42200 - Natural White Pine	Poletimber Medium	4.8	57	1-50	N/A	Patchy clumps of white pine with a few areas of U mixed in. A couple of pretty nice black cherry sawlog trees are present. Single large hemlock on the south edge. Average ba/acre from 5 plots = 44 square feet.																																																						
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52	42290 - Natural Mixed Pine	Sawtimber Well	2.0	98	111-140	N/A	High quality natural pine stand that sits on a steep side slope. Stand directly borders the Sturgeon River. An old road runs north/south through the entire length and was cut into the bank of the slope. White pine more common on the lower slope near the wet ground, red pine more common near the road on the upper slope. Average ba/acre from 4 plots = 180 square feet.																																															
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53	4199 - Other Mixed Upland Deciduous	Sawtimber Well	6.0	94	81-110	N/A	This stand mostly follows the top of a ridge however several parts dip down onto a steep north facing slope. This area was originally part of the adjacent stand to the south but was excluded when that was harvested. Composition varies quite a bit with the east end being heavy to red maple, the middle heavier to red oak, and the west end having more of the aspen and pine. Average ba/acre from 10 plots = 97 square feet. This stand should remain as part of the Sturgeon River Valley SCA.																																															
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54	4319 - Mixed Upland Forest	Sawtimber Well	21.3	95	81-110	N/A	Nice natural pine stand. The majority of the east side of the stand sits on a steep east-facing slope. The west running portion of the stand sits on a north-facing aspect with moderate slopes, including more steep terrain at the southwest corner. Well-developed white pine understory. Trace of balsam fir, hemlock, cedar, and ironwood. Average ba/acre from 12 plots = 106 square feet. No management. This stand is part of the Sturgeon River Valley SCA.																																															
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55	42290 - Natural Mixed Pine	Sawtimber Well	7.1	82	141-170	N/A	Stand was excluded from the adjacent timber sale Rusty Shotgun Mix due to an active goshawk nest in this area. Nice natural pine stand with a variety of diameters including some old legacy trees. East side of the stand is on a west-facing side slope, the majority of the deciduous component is here. Stand was formerly a part of the Sturgeon River Valley SCA but was removed from this during the 2011 YOE. Fire charred stumps present throughout. Average ba/acre from 6 plots = 152 square feet.																																															
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56	42290 - Natural Mixed Pine	Sawtimber Medium	3.7	80	81-110	N/A	Variable mixed conifer stand along the swamp edge with most of the stand being on a slight ridge. The east half of the stand has denser stocking and has an old railroad grade running east/west through it which is now a hiking trail. The west half of the stand becomes more open with quite a bit of poletimber mixed in. Another hiking trail enters near the middle of the stand, coming from the south and crossing Pickerel Creek via a small bridge. There are some old dump piles close to where this trail enters the stand. There are also several old foundation remnants along a good portion of the stand. Recent activity from beavers has killed most of the aspen. Average ba/acre from 6 plots = 82 square feet. Leave unmanaged as part of the Sturgeon River Valley SCA.																																															
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57	4311 - Pine, Aspen Mix	Poletimber Well	4.3	82	111-140	N/A	Stand was excluded from the adjacent Rusty Shotgun Mix due to an active goshawk nest. Stand sits on somewhat of a knob with the western part of the stand on a west side slope. Mix of species including a portion of old legacy trees. Stand was formerly a part of the Sturgeon River Valley SCA but was removed from this during the 2011 YOE. Trace of paper birch. Average ba/acre from 6 plots = 115 square feet.																																											
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58	42290 - Natural Mixed Pine	Sawtimber Well	1.8	82	81-110	N/A	Natural mixed pine stand along the banks of the Sturgeon River. Quite a bit of variation in diameters as the north half of the stand has a lot of large diameter, old trees. The south half has fewer large diameter trees and more poletimber. A couple open areas of low stocking are mixed in throughout the stand. An old road runs north/south along the entire east edge of the stand. Average ba/acre from 4 plots = 93 square feet. No management, retain as part of the Sturgeon River Valley SCA.																																											
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59	6220 - Alder/willow	Nonstocked	1.4	0	Unspecified	No	Pickereel Creek runs through the stand. Dead standing timber throughout, I'm guessing this was flooded by beavers at one time.																																											
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60	4311 - Pine, Aspen Mix	Poletimber Well	5.1	38	1-50	N/A	This stand is nearly a 50/50 split between younger aspen and older pine. A species removal harvest was done in the stand while under private ownership, cutting everything except pine and oak. The north end of the stand looks like an old landing as there are some scattered mounds and a few small open areas. There are a few old roads that appear to cut through the stand as well, one heads west to the private property. There are some nice patches of pine regeneration in these heavily impacted areas. The larger pine tends to be more concentrated along the edges of the stand. The aspen is still very small at this point. Average ba/acre from 5 plots = 96 square feet. Trace of red oak and white spruce.																																											
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61	310 - Herbaceous Openland	Nonstocked	0.6	0	Unspecified	No	Small opening next to the Sturgeon River. Popular camping and fishing site.																																											
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62	4133 - Aspen, Mixed Pine	Poletimber Well	1.4	57	111-140	N/A	Some patches of pure white pine along the south edge. Trace of red maple. Average ba/acre from 3 plots = 120 square feet.																																											
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63	6122 - Black Spruce	Poletimber Well	4.7	94	111-140	N/A	Pretty nice stand of black spruce although there are some areas of lower stocking mixed in throughout. The cedar component picks up as you move east in the stand. Some upland along the southern stand line. Average ba/acre from 5 plots = 118 square feet.																																											
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64	4139 - Aspen, Mixed Deciduous	Sawtimber Well	9.5	91	81-110	N/A	All of this stand sits on a very steep east-facing slope and was excluded when the stand to the west was clearcut. A few small areas of blowdown as a result of the adjacent harvest. White oak is mostly at the south end. Trace of balsam fir, white spruce, and ironwood. Average ba/acre from 7 plots = 87 square feet. No management. Stand is part of the Sturgeon River Valley SCA.																																											
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65	320 - Upland Shrub	Nonstocked	23.8		Unspecified	No	Rolling terrain. Scattered pockets of open-grown red maple mixed in. Low-lying valleys in the north end may be frost pockets. Planned prescribed burns will maintain this stand as an opening.																																											
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66	4130 - Aspen	Sawtimber Well	1.7	82	141-170	N/A	Small inclusion of aspen in the surrounding red maple stand. Dense stocking and quality is pretty high. Some scattered larger stems with a lot of rot and woodpecker activity. Trace of red and white pine poletimber. Average ba/acre from 4 plots = 150 square feet.																																											
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69	4199 - Other Mixed Upland Deciduous	Poletimber Well	10.7	82	81-110	N/A	Red maple dominated stand of poor to mediocre quality. The stand is generally well-stocked except for a few open areas mixed in here and there. A few areas heavy to white pine, these tend to be along the west edge of the stand. Bigtooth aspen is in a few small clones at the north/northwest end. Quaking aspen occurs in one clone at the far northeast side of the stand. Average ba/acre from 8 plots = 93 square feet. Include this stand with the prescribed burns planned for adjacent stands.																																																	
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70	4130 - Aspen	Poletimber Well	3.9	62	51-80	N/A	Moderate quality aspen stand that has some variation in diameters. The edges tend to have smaller diameter trees and these areas are also less well-stocked. Northwest corner has a small area that is heavy to red maple saplings with a trace amount of balsam poplar. 2 or 3 XI-sized white pine are present. Average ba/acre from 7 plots = 77 square feet.																																																	
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71	42290 - Natural Mixed Pine	Sawtimber Medium	3.2	93	81-110	N/A	Uneven-aged stand with a variety of diameters and almost looks like it had a partial harvest at one time. The north half of the stand has some clumps of very large, natural origin red pine. The south half is more open with pockets of white pine regeneration. Nice spruce, mostly along the swamp edge. An old trail road winds it's way north through the stand. Average ba/acre from 5 plots = 84 square feet.																																																	
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72	320 - Upland Shrub	Nonstocked	1.6		Unspecified	No	Stand was formerly used as a building site and later as a dump site while under private ownership. It was cleaned up by the DNR in 1996. Old foundations are still present in the southeast part of the stand. Edges are currently filling in with trees.																																																	
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400	2113 - Forage Crops	Nonstocked	8.6		Unspecified	Managed Opening	Formerly an active gravel pit used by Otsego County Road Commission. The site has now been rehabbed and is currently planted with forage crops.																																																	