



Compartment Review Presentation

Pigeon River Country Forest Management Unit

Compartment 53038

Entry Year 2021

Acreage: 1,260

County Otsego

Management Area: Pigeon River Country

Revision Date: 2019-04-08

Stand Examiner: Greg Rekowski

Legal Description:

T32N R01W Sections 20 and 21

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:

With the exception of very small isolated pockets of organic types, this Compartment consists predominantly of the upland Leelanau loamy sand with lesser amounts of Blue Lake loamy sands and Lindquist sands.

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

The Compartment is entirely state owned. It borders the Song of the Morning Ranch to the west.

Unique Natural Features:

Two bog natural communities have been identified as Ecological Reference Areas (ERAs) in the Compartment. Hill's thistle and red-shouldered hawk are known to occur in the Compartment as well.

Archeological, Historical, and Cultural Features:

None identified at this time.

Special Management Designations or Considerations:

A large portion of this Compartment is a part of the Lovejoy Pine's SCA which has a goal of maintaining late-successional pine communities through both active and passive management.

Watershed and Fisheries Considerations:

The Pigeon River flows through the far northwest corner of Section 20.

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

Surface sediments consist of coarse-textured glacial till and glacial outwash sand and gravel and postglacial alluvium. The glacial drift thickness varies between 400 and 800 feet. Beneath the glacial drift is the Devonian Antrim Shale that is quarried for cement products elsewhere in the State and potential is considered good. However, page 30 of the Concept of Management for the PRC says that extraction of surface minerals will rarely be allowed. Niagaran reefs are not likely to be found in the Compartment. The Antrim Shale is present and has potential. The closest Antrim production is one mile to the southwest. However, the entire Compartment is in the Consent Order Area and, as provided on page 33 of the Concept of Management, no new leases will be issued in this Area.

Vehicle Access:

The existing road system is adequate to serve recreational and timber management needs. Many of the closed roads in Section 21 are largely overgrown and difficult to distinguish on the ground.

Survey Needs:

None identified.

Recreational Facilities and Opportunities:

The High Country Pathway travels through most of the Compartment with the primary trailhead parking lot located in the northwest corner of section 20.

Fire Protection:

Fire risk is high in this Compartment due to the prevalence of pine cover types. Access for suppression efforts is generally

poor as many of the closed roads are overgrown and would require significant work to allow access for equipment. However it has been stressed by the PRC Unit Manager and other staff that suppression efforts in this area utilize minimal impact techniques (MIST) when combating wildfires.

Additional Compartment Information:

The following reports from the Inventory are attached:

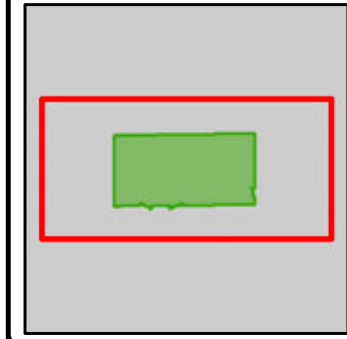
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

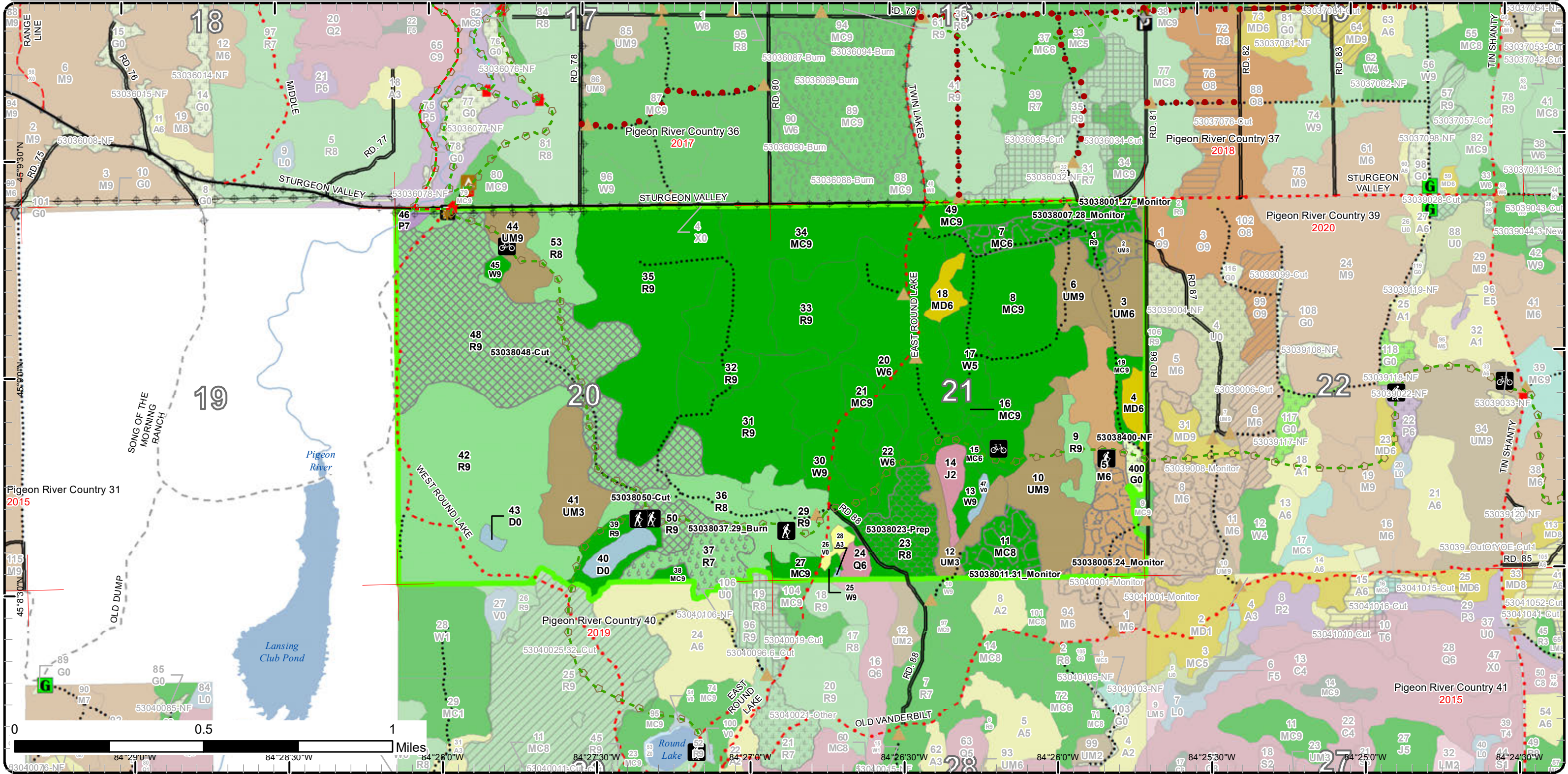
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 38
 T32N, R01W, Sec: 20, 21
 County: Otsego
 Unit: Pigeon River Country
 Mgmt Area: Pigeon River Country
 YOE: 2021
 Acres: 1,260 GIS Calculated
 Examiner: Greg Rekowski
 Map Revised: 6/12/2019
 Map Phase: Web-Post

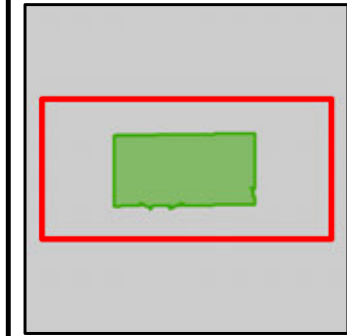


- Miris Corners
- Field Grade Corners
- Counties
- DNR - Secondary Forest Road
- Federal / State / County - Paved Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- DNR - Management Access (NLP)
- Hiking Trails
- Bike Trails
- Ski Trails
- Designated Hiking Trails
- Designated Bicycle Trails
- Designated Equestrian Trails
- Designated Ski Trails
- Designated Snowshoe Trails
- Berms
- Gate
- Campground
- Parking Lot
- Structures
- Trailhead
- Tree (marking)
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers All
- Powerline
- Compartment Boundary
- Other Treatment - See Comments
- Selection (Group, Single Tree)
- Prescribed Burn
- Regeneration Survey
- Site Prep
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 310 - Herbaceous Openland
- 622 - Lowland Shrub
- Lakes

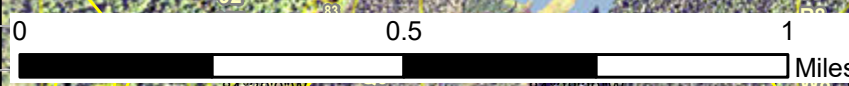
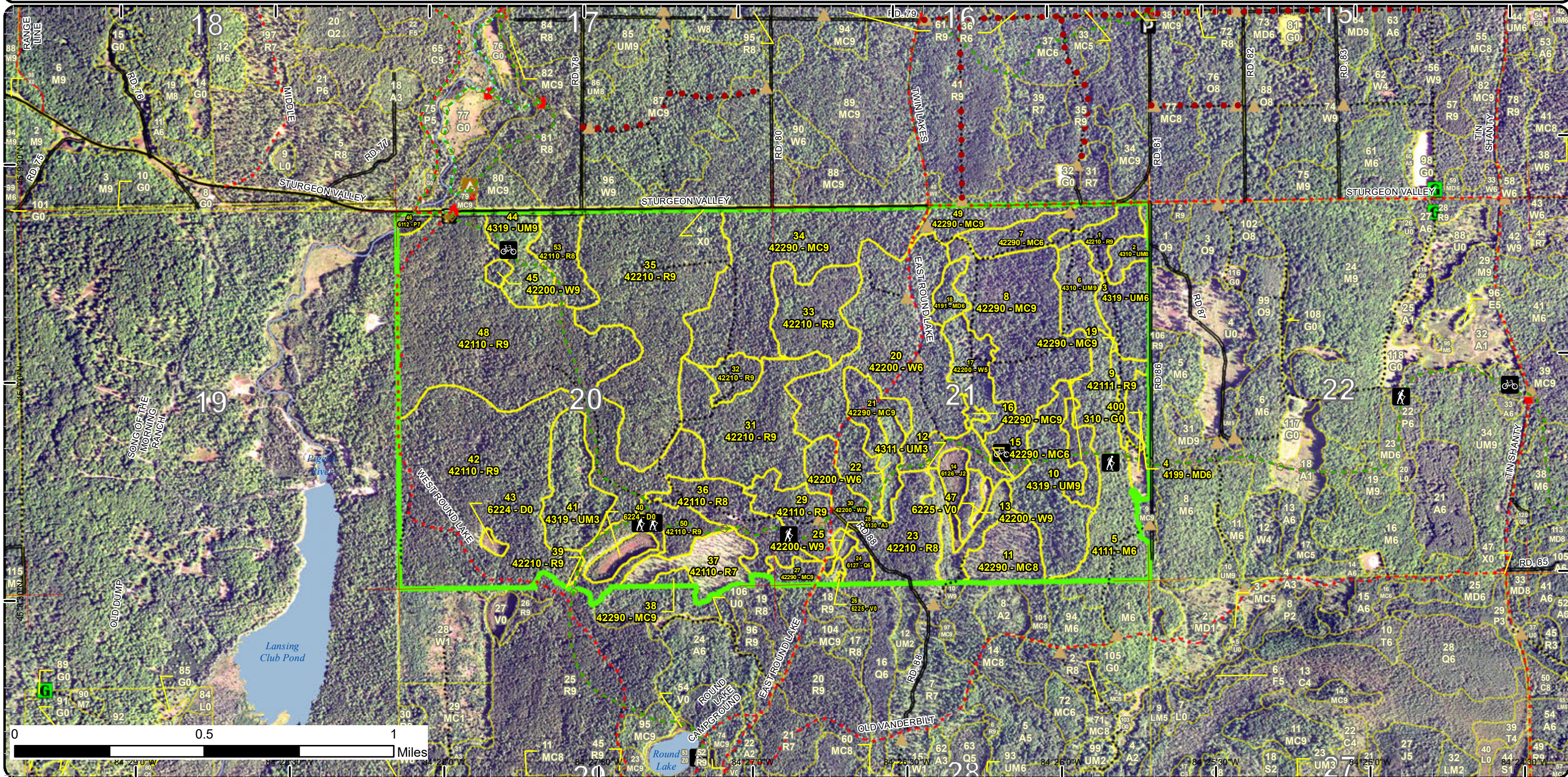


Stand Boundary Map

Compartment: 38
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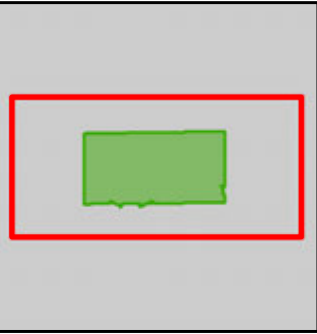


- Miris Corners
- ◆ Field Grade Corners
- Counties
- DNR - Secondary Forest Road
- Federal / State / County - Paved Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- ⋯ DNR - Management Access (NLP)
- 🚶 Hiking Trails
- 🚲 Bike Trails
- 🛷 Ski Trails
- Designated Bicycle Trails
- Designated Equestrian Trails
- Designated Ski Trails
- ⬠ Designated Snowshoe Trails
- Lakes and Rivers All
- ⊕ Powerline
- Compartment Boundary
- Stand Boundaries
- ▲ Berms
- G Gate
- ▲ Campground
- P Parking Lot
- 🏠 Structures
- ✳ Trailhead
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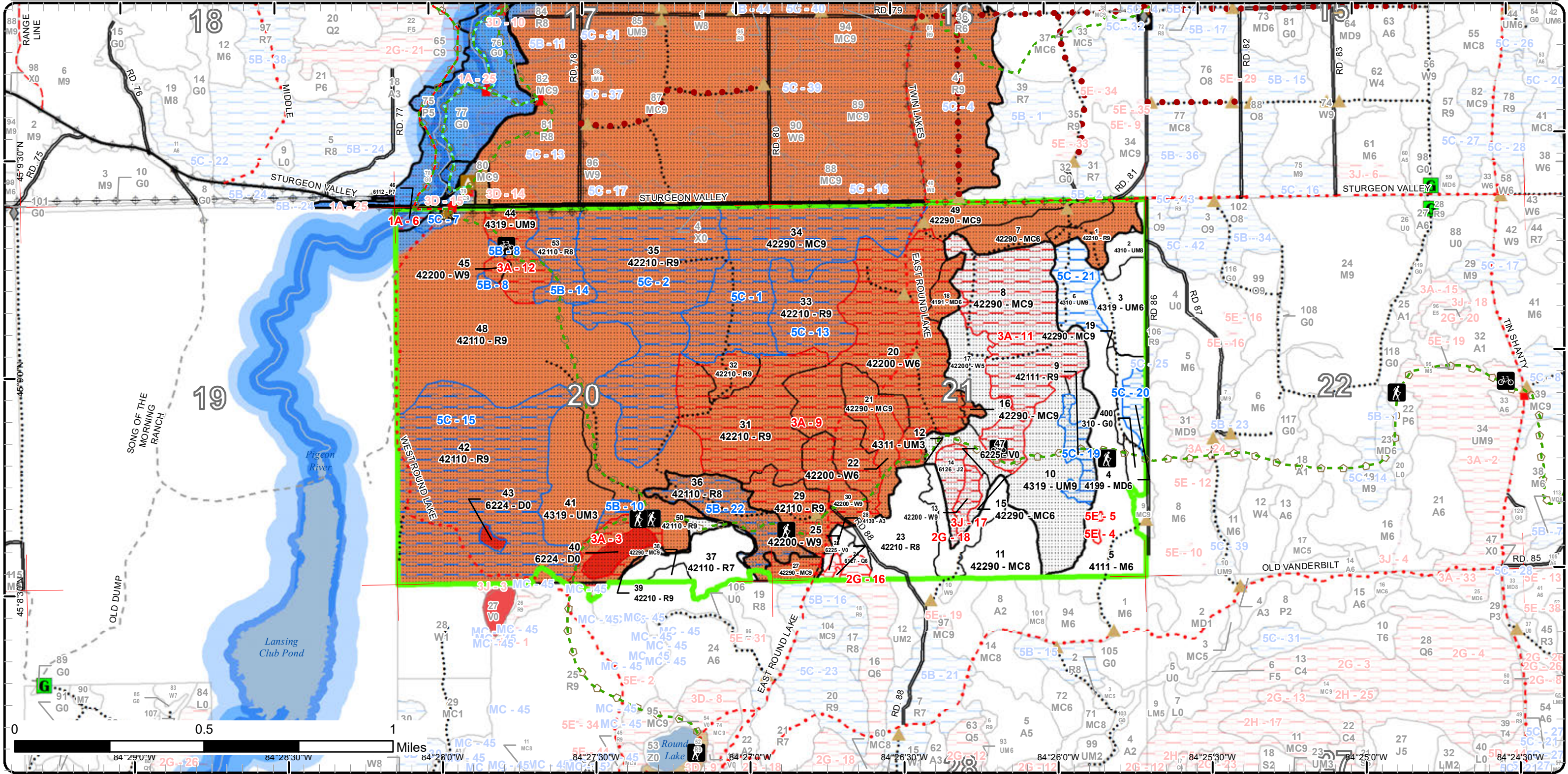


Special Conservation Areas & Site Conditions Map

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- 🏂 Ski Trails
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- - - Designated Bicycle Trails
- Designated Equestrian Trails
- - - Designated Ski Trails
- ⬠ Designated Snowshoe Trails
- ▲ Berms
- 🏠 Campground
- P Parking Lot
- 🏠 Structures
- ✳ Trailhead
- 🌲 Tree (marking)
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers All
- Powerline
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 5B: Maintain for regeneration purposes
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 1A: Federal/State/Local Law
- 2G: Too wet (sensitive soils, does not include access issues)
- 3A: Conservation Values incompatible with harvest at this time
- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention
- Stand Boundaries
- SCA
- SCA Removal
- Ecological Reference Areas
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- Cold Water Streams
- High Priority Trout Stream Buffer
- Riparian Area
- State Forest Campground
- Other Habitat Area
- Customary Use 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	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Bog	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Herbaceous Openland	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Jack Pine	0	0	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Lowland Aspen/Balsam Poplar	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	3
Lowland Conifers	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	4
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	13	0	0	0	0	0	0	0	0	0	13
Natural Mixed Pines	0	0	0	0	0	17	9	0	42	73	21	0	0	0	0	0	0	78	239
Northern Hardwood	0	0	0	0	0	0	0	0	46	0	0	0	0	0	0	0	0	0	46
Red Pine	0	0	0	0	0	0	0	0	615	0	29	0	0	0	0	0	0	0	644
Treed Bog	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
Upland Mixed Forest	0	0	14	0	46	0	0	0	56	22	0	0	0	0	0	0	0	0	138
White Pine	0	0	0	27	0	100	0	0	7	15	0	0	0	0	0	0	0	0	147
Total	15	0	17	27	54	100	17	13	7	787	98	50	0	0	0	0	0	78	1260



Report 2 – Treatment Summary

Acres of Harvest

Commercial Harvest - 162
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
Red Pine		0	162	0	0	0	0	0	0	0	162
	Total	0	162	0	0	0	0	0	0	0	162

Proposed and Next Step Treatments by Method

		Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current		162	27	0	0	20	0	78	0	4	291
Next Step		0	39	0	0	0	0	209	0	0	248
	Total	162	66	0	0	20	0	287	0	4	539



Stand Name	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
1	53038001.27_Monitor	11.5	42210 - Natural Red Pine	Sawtimber Well	85	81-110	Monitoring	Natural Regen (Re-Inventory)	429 - Mixed Upland Conifers	Uneven-Aged	Draft Field Boundary

Habitat Cut: No **Site Condition:**

Prescription
Specs:

Next Step
Treatments:

Acceptable Regen that meets MC stocking guidelines.
Regen:

Other Percent to Treat = 100%
Comment:

Proposed Start Date: 10/1 /2018

2	53038002.25_Monitor	7.0	4310 - Pine, Oak Mix	Sawtimber Medium	94	51-80	Monitoring	Natural Regen (Re-Inventory)	4319 - Mixed Upland Forest	Two-Aged	Draft Field Boundary
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Habitat Cut: No **Site Condition:**

Prescription
Specs:

Next Step
Treatments:

Acceptable Regen that meets UM stocking guidelines.
Regen:

Other Percent to Treat = 100%
Comment:

Proposed Start Date: 10/1 /2018

5	53038005.24_Monitor	24.2	4111 - S.Maple, Hard Mast Association	Poletimber Well	84	81-110	Monitoring	Natural Regen (Re-Inventory)	411 - Northern Hardwood	Uneven-Aged	Draft Field Boundary
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Habitat Cut: No **Site Condition:**

Prescription Monitor canopy gaps.
Specs:

Next Step
Treatments:

Acceptable Any mix of species acceptable.
Regen:

Other Percent to Treat = 100%
Comment:

Proposed Start Date: 10/1 /2021

7	53038007.28_Monitor	16.8	42290 - Natural Mixed Pine	Poletimber Well	56	51-80	Monitoring	Natural Regen (Re-Inventory)	429 - Mixed Upland Conifers	Uneven-Aged	Draft Field Boundary
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Habitat Cut: No **Site Condition:**

Prescription
Specs:

Next Step
Treatments:

Acceptable Regen that meets mixed conifer stocking guidelines.
Regen:

Other Percent to Treat = 100%
Comment:

Proposed Start Date: 10/1 /2018



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Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
11	53038011.31_Monitor	18.9	42290 - Natural Mixed Pine	Sawtimber Medium	103	1-50	Monitoring	Natural Regen (Intermediate)	42260 - Natural Pine, Mixed Deciduous	Two-Aged	Draft Field Boundary

Habitat Cut: No **Site Condition:**

Prescription Natural regen survey.

Specs:

Next Step SitePrep, Scarification

Treatments:

Acceptable Regen: RED, WHITE AND JACK PINE AS WELL AS RED MAPLE, ASPEN WOULD BE EXPECTED TO REGENERATE THE STAND.

Other Comment: Percent to Treat = 100%

Proposed Start Date: 10/1 /2020

23	53038023-Prep	26.5	42210 - Natural Red Pine	Sawtimber Medium	105	1-50	SitePrep	Scarification	42290 - Natural Mixed Pine	Two-Aged	Proposal
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Habitat Cut: No **Site Condition:**

Prescription Scarify using in house DNR equipment or through a contractor.

Specs:

Next Step Monitoring, Natural Regen (Intermediate)

Treatments:

Acceptable Regen: Scarify to promote pine regeneration.

Other Comment: Previous sale was a roundwood job. Low to moderate amounts of slash. Rolling terrain, a couple of moderately steep slopes at the west end.

Proposed Start Date: 10/1 /2019

37	53038037.29_Burn	20.4	42110 - Planted Red Pine	Sawtimber Poor	86	1-50	Burn	Understory	42290 - Natural Mixed Pine	Two-Aged	Draft Field Boundary
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Habitat Cut: No **Site Condition:**

Prescription Understory pine burn to expose mineral soil and stimulate natural pine regeneration. Burn in conjunction with stands 19 and 96 to the south in Compartment 40.

Specs:

Seek outside funding for this burn. Also check with Mark Monroe to see if it can be added to WLD priority planning for potential cost sharing of the burn.

This stand was recently harvested but only had minimal amounts of scarification take place through harvesting operations. This was a fully-stocked stand of planted red pine prior to harvest. Doing nothing will result in limited regeneration. Evaluate regen success four years after the burn with a formal natural regen survey. If results are inadequate, a variety of options should be discussed (and in conjunction with adjacent stands to the south) such as re-burning, leaving as is, or trenching and re-planting to red pine. If burn can't be completed in 2019, then implement this scarification with stand 23.

Next Step Monitoring, Natural Regen (Intermediate); SitePrep, Scarification

Treatments:

Acceptable Regen: Well-stocked stand that meets regeneration guidelines for a mixed pine stand.

Other Comment: Achieving natural regeneration is a stated goal of pine management in the PRC. Per Page 18 of the PRC Concept of Management, "Natural regeneration will be the primary means of establishing regeneration. Planting will be used where natural regeneration is not successful and pine management is the objective. Planting usually will not be the first choice for regeneration." Treatments in other stands will utilize whole-tree harvesting to try and achieve desirable natural regeneration. A large block of nearly 100 acres is scheduled to be clearcut and will be trenched and re-planted to red pine.

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
48 53038048-Cut	150.4	42110 - Planted Red Pine	Sawtimber Well	85	111-140	Harvest	Group Selection	42290 - Natural Mixed Pine	Uneven-Aged	Proposal

Habitat Cut: No

Site Condition:

Prescription Thin to 100-120 square feet per acre, dependent on basal area levels. Focus thinning on trees from the poletimber and small sawlog size classes. Avoid marking the large natural red pine and white pine of any size. Do not cut any oak. Do not remove more than 1/3rd of basal area from any area except for canopy gaps. Create one canopy gap, at least a chain in diameter, per 5 acres. Do not mark in areas with lower basal areas and heavy regeneration. Utilize retention to protect a few of the dense clumps of larger pine to maintain some variable structure in the stand.

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

Acceptable Regen: Canopy gaps filled with pine or any other mix of native species will be deemed successful.

Other Comment: Add trail specs. Roundwood harvest only, no new roads in the stand. Expect the southern treatment line adjacent to stand #42 to change as the boundary of that harvest was not obvious from aerial imagery. Exclude any areas of lower BA and dense regeneration that may be present along the edges. Some of these have already been excluded. The area around the parking lot that has less pine in it has been excluded as well.

Proposed Start Date: 10/1 /2020

50 53038050-Cut	11.3	42110 - Planted Red Pine	Sawtimber Well	85	141-170	Harvest	Group Selection	42290 - Natural Mixed Pine	Uneven-Aged	Proposal
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Habitat Cut: No

Site Condition:

Prescription Thin to 100-120 square feet per acre, dependent on basal area levels. Focus thinning on trees from the poletimber and small sawlog size classes. Avoid marking the large natural red or white pine. Do not cut any oak. Create two canopy gaps in the stand, at least a chain in diameter.

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

Acceptable Regen: Canopy gaps filled with any mix of pine and deciduous species will be deemed acceptable.

Other Comment: The High Country Pathway runs through the stand. Add trail specs.
Roundwood harvest only, no new roads in the stand.

Exclude the far west end which has a sinkhole-like depression.

Proposed Start Date: 10/1 /2020

400 53038400-NF	4.0	310 - Herbaceous Openland	Nonstocked		Unspec ified	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

Total Treatment Acreage Proposed: 291.0

Report 4 – Site Conditions

Pigeon River Country Mgt. Unit

Compartment: 38

Greg Rekowski : Examiner

Year of Entry: 2021

Availability for Management

Total Acres	Acres Available	Acres Available With Condition	Acres Not Available
3	3	0	0
2	2	0	0
4	4	0	0
8	0	0	8
3	0	0	3
4	2	0	3
13	0	7	7
238	68	78	93
46	46	0	1
644	223	327	94
9	9	0	0
137	105	15	17
148	27	0	122
1,260	487	426	347
	39%	34%	28%

Dominant Site Conditions

				5B	5C	1A	2G	3A	3J	5E
3	3	0	0					0		
2	2	0	0					0		
4	4	0	0							
8	0	0	8				8			
3	0	0	3		0	3				
4	2	0	3				3			
13	0	7	7		7			7		
238	68	78	93	0	78			93		
46	46	0	1							1
644	223	327	94	47	279			94		
9	9	0	0					0		
137	105	15	17	0	15			17		
148	27	0	122	0	0			117	5	
1,260	487	426	347	47	379	3	10	328	5	1
	39%	34%	28%							

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

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	78	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
2	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	106	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Thinned in 2012.							

Report 4 – Site Conditions

Pigeon River Country Mgt. Unit

Compartment: 38

Greg Rekowski : Examiner

Year of Entry: 2021

3	Unavailable	3A: Conservation Values incompatible with harvest at this time	12	2F: Too steep	Unspecified	Unspecified	Unspecified
Comments: Stand is a part of the Lovejoy Pines SCA and will not be managed. Most of the stand sits on steep slopes bordering a bog.							
4	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	1A: Federal/State/Local Law	3	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments: Stand falls within Natural Rivers corridor for the Pigeon River. Very wet stand regardless.							
7	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Parking trailhead for the High Country Pathway. The area immediately around has a lower basal area of pine and does not need to be thinned at this time.							
8	Available	5B: Maintain for regeneration purposes	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Two small areas of low basal area and good regeneration. They can both be excluded from the thinning taking place in stand 48.							

Report 4 – Site Conditions

Pigeon River Country Mgt. Unit

Compartment: 38

Greg Rekowski : Examiner

Year of Entry: 2021

9	Unavailable	3A: Conservation Values incompatible with harvest at this time	223	Unspecified	Unspecified	Unspecified	Unspecified
Comments: These stands are a part of the Lovejoy Pines SCA and it was decided at a previous Compartment Review that no harvesting will ever take place within these stands.							
10	Available	5B: Maintain for regeneration purposes	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Area of lower basal area and good regeneration and doesn't need to be included with the rest of the thinning in stand 48.							
11	Unavailable	3A: Conservation Values incompatible with harvest at this time	73	Unspecified	Unspecified	Unspecified	Unspecified
Comments: This stand will be added to the Lovejoy Pine's SCA and left unmanaged due to it's mature structure and areas of uneven-aged characteristics.							
12	Unavailable	3A: Conservation Values incompatible with harvest at this time	20	3D: Recreational / Scenic values	Unspecified	Unspecified	Unspecified
Comments: These stands are a part of the Lovejoy Pines SCA and it was decided at a previous Compartment Review that no harvesting will ever take place within these stands.							
13	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	31	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Recently thinned.							

Report 4 – Site Conditions

Pigeon River Country Mgt. Unit
Greg Rekowski : Examiner

Compartment: 38
Year of Entry: 2021

14	Available	5B: Maintain for regeneration purposes	18	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
15	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	130	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Recently thinned. A part of Lovejoy Pine's SCA and will be managed for big trees using uneven-aged techniques.							
16	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments: The area of this site condition is somewhat of an estimate but should capture the part of this stand that becomes wet and bog-like with a leatherleaf understory.							
17	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Bordered by bogs on two sides. 100 foot BMP guidelines for buffering bogs would exclude almost all of this stand from harvesting.							
18	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	8	5D: Unproductive Forest Land	Unspecified	Unspecified	Unspecified
Comments: This is a treed bog with stagnant trees growing in it.							
19	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Stand to be included in Lovejoy Pine's SCA. Manage for uneven-aged structure.							

Report 4 – Site Conditions

Pigeon River Country Mgt. Unit

Compartment: 38

Greg Rekowski : Examiner

Year of Entry: 2021

20	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
21	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	15	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
22	Available	5B: Maintain for regeneration purposes	25	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Clearcut treatment rejected at Pre-review. Decide on treatment next 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
	Habitat Area	Habitat Corridor	SCA	899
Comments				



Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

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

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

Conservation Area	Type	Description
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
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	Natural Rivers	There are two Natural Rivers datasets which are derived from spatial buffers set from an established and approved distance from the river centerlines. The Natural Rivers Zoning District is a 400 foot buffer for most Natural Rivers. The Vegetative Buffer ranges from 25 to 100 feet. To view specific Zoning Districts and Vegetative Buffers for each Natural River see the table located on the I:\Documentation\GDSE data folder.
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	42210 - Natural Red Pine	Sawtimber Well	11.5	85	81-110	N/A	Stand cut as part of Runs-the-Gamut Mix, #53-020-11-01. Cut in winter/spring of 2017 by a Precision roundwood crew. Only orange-marked trees were cut from the stand. Somewhat irregular stocking as there are some areas that weren't marked. Smaller diameter red pine is closer to Sturgeon Valley Extension Road. Trace of jack pine in the overstory. Average ba/acre from 6 plots = 108 square feet. This stand is a part of the Lovejoy Pine's SCA and will be managed for big trees using uneven-aged techniques.																																																																
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2	4310 - Pine, Oak Mix	Sawtimber Medium	6.9	94	51-80	N/A	Stand cut as part of the sale Runs-the-Gamut Mix, #53-020-11-01, in the winter/spring of 2017 by a Precision roundwood crew. Everything was cut except for pine larger than 8" DBH and all oak was left except for a few orange-marked trees that were cut. Residual oak appear healthy. Bigtooth aspen and red maple are regenerating but are being hit hard by deer and elk browse. Average ba/acre from 5 plots = 66 square feet.																																																																
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3	4319 - Mixed Upland Forest	Poletimber Well	17.5	35	81-110	N/A	Stand was harvested in 1983 leaving a residual of about 30 square feet of oak, red pine, and white pine. The residual tends to be clumpy in nature and is more numerous along the west and north edges. Regeneration has come back well to white pine and red maple, although the red maple is generally low quality. A trace amount of red oak regenerated as well. There used to be a closed road in the west part of the stand that has now filled in thick with red, white, and jack pine and is mostly indistinguishable. Gently rolling terrain. Average ba/acre from 8 plots = 85 square feet.																																																																
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4	4199 - Other Mixed Upland Deciduous	Poletimber Well	6.7	81	81-110	N/A	Lower end hardwood site sitting on a gradual west-facing slope. There are a lot of small red maple stems giving the stand a two-aged appearance in many places, although no sale records were found for the stand. Aspen is definitely two-aged with some clones of smaller stems at the north end. Hardwood quality is best at the far southern end, this is where most of the beech and sugar maple are located. A vein heavy to pine runs north-south through the middle of the stand. There are a few very large white pine scattered throughout. Red oak quality is high and there is a small amount of advanced oak regeneration, mostly at the south end and near the road edge. Average ba/acre from 8 plots = 95 square feet.																																																																
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5	4111 - S.Maple, Hard Mast Association	Poletimber Well	46.2	84	81-110	N/A	Stand thinned in summer of 2018, 4 Corner Hardwoods (#53-010-15-01) bought by Precision. All ash and the majority of beech removed and the rest of the stand was thinned using hardwood selection techniques. Some large gaps created in areas heavy to beech. Average ba/acre from 23 plots = 90 square feet. Northern 1/2 of the stand was not thinned due to smaller diameters and lower BA. Pine and red maple become more common in the north part. Majority of the stand sits on a slight ridge line.																																																																
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6	4310 - Pine, Oak Mix	Sawtimber Well	15.0	93	111-140	N/A	Nice mixed pine and oak stand that sits on a slight ridge and east-facing slope. Oak is more prevalent in the north half of the stand. Some areas of the stand look two-aged due to the presence of the much smaller red maple component. Some legacy size (26"+) white pine are present. Site quality increases as you head south in the stand. Average ba/acre from 8 plots = 121 square feet.																																																			
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7	42290 - Natural Mixed Pine	Poletimber Well	16.8	56	51-80	N/A	Stand cut as part of Runs-the-Gamut Mix, #53-020-11-01. Cut in winter/spring of 2017 by a Precision roundwood crew. Only orange-marked trees were cut, not much volume was removed from the stand as the marking seemed to go in strips and left areas uncut. A variety of diameters are present in the stand and it almost looks uneven-aged. Old notes do indicate a partial harvest in the early 1960's. The two ages listed were taken from current cores, the previous inventory noted an age of 90. Trace of bigtooth aspen. Average ba/acre from 7 plots = 80 square feet. This stand is a part of the Lovejoy Pine's SCA and will be managed for big trees using uneven-aged techniques.																																																			
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8	42290 - Natural Mixed Pine	Sawtimber Well	73.2	98	141-170	N/A	Very high quality natural pine stand that is variable in stocking. In general the northern 1/3rd of the stand is dominated by red pine while the remainder is about an even mix between white and red pine. It ranges from areas of dense sawtimber stocking to areas of lower basal area with smaller hardwoods mixed in. There are also areas where white pine poletimber is dominant. Throughout the stand there is an age class of larger, older pine. All of these factors give the stand a two-aged or uneven-aged appearance in many areas. No previous harvest records or planting records were found for this stand. Terrain is mostly flat except for the eastern edge which starts to get some slight slopes. Trace of sugar maple and beech in the overstory. Average ba/acre from 22 plots = 143 square feet. Several stick nests found in the stand. The old closed road the travels through the stand is overgrown in many places. This is one of the more impressive pine stands in this Compartment and should be left unmanaged and included in the Lovejoy Pine's SCA.																																																			
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9	42111 - Planted Red Pine, Mixed Deciduous	Sawtimber Well	9.7	85	171-200	N/A	Very nice pine stand, no evidence of past harvesting activity. No planting records were found but most of the red pine appear planted, although there are some larger diameter, natural origin trees mixed in. In general the south half of the stand has a little lower BA and more hardwoods, both in the overstory and understory. The north half has some areas of very dense stocking and not as much hardwoods mixed in. The west edge of the stand sits on a west-facing slope. Average ba/acre from 9 plots = 182 square feet. The High Country Pathway travels east-west through the middle of the stand. No roads access this stand. Leave unmanaged for mature forest cover.																																																			
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10	4319 - Mixed Upland Forest	Sawtimber Well	38.2	85	81-110	N/A	Diverse stand of generally high-quality trees with the exception of the red maple and hardwood component which is small in most areas. The stand resembles a two-aged structure in many places but no records of a past harvest were found. Pine becomes dominant in the south half of the stand and it appears to be of natural origin. There are some very large diameter white pine throughout the stand. Aspen is not uniform throughout but occurs in a few clumps here and there. Paper birch used to be a larger component but most have died. Most of the stand sits on a moderate west-facing slope. Average ba/acre from 20 plots = 106 square feet. Wait to treat until the red maple component grows in size and utilize a two-aged or uneven-aged management approach.																																																			
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11	42290 - Natural Mixed Pine	Sawtimber Medium	19.0	103	1-50	N/A	Stand cut as part of East Round Lake Pine, #53-012-11-01, bought by Precision. Roundwood job, cut in the winter 2013-14. High quality residual trees, many of natural origin, residual ba/acre = 44 square feet. Very minimal scarification took place during harvesting activities. Not much regeneration showing up yet other than some beech. Leave the overstory trees indefinitely. Consider burning this stand.																																																			
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12	4311 - Pine, Aspen Mix	Sapling Well	14.1	16	Immature	N/A	Stand cut in 2003 in the sale Twin Bogs Block, #53-008-01-01, bought by A.J.D. Regeneration came back well to primarily aspen and white pine. The only area that is not well-stocked is the far northeast corner. Aspen is clumpy and not uniform throughout. This is likely a result of constant elk browsing which was noted in previous inventory notes. Most of the stand is dry with the exception of a few small wet areas adjacent to the bogs.																																																			
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13	42200 - Natural White Pine	Sawtimber Well	4.9	75	141-170	N/A	Dense natural pine stand surrounded by bogs on two sides. Quality is only mediocre as there are quite a few crooked stems. The ground is primarily dry although leatherleaf is present in some spots of the understory. Jack pine is mostly along the perimeter of the stand. Average ba/acre from 5 plots = 160 square feet. A small channel seems to connect the two bogs in the northern part of the stand. Do not manage.																																																			
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14	6126 - Lowland Jack Pine	Sapling Medium	7.7	33	1-50	N/A	This is a treed leatherleaf bog. Some larger poletimber is present along the western edges of the stand but the remainder of the trees are sapling-sized and appear stagnant. Age is an estimate from averaging several whorl counts of sapling-sized white and red pine.																																																			
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15	42290 - Natural Mixed Pine	Poletimber Well	8.7	61	81-110	N/A	Variable stand that appears two-aged in most places. No sale records exist so the two-aged structure may be the result of natural processes. The west half has more jack pine while the east half has a mix of all pine species. Average ba/acre from 7 plots = 99 square feet. The High Country Pathway travels through almost the entire length of this stand.																																																			
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16	42290 - Natural Mixed Pine	Sawtimber Well	1.6	103	141-170	N/A	High quality natural pine stand that sits on a slight slope. Some large diameter trees are present. Average ba/acre from 3 plots = 160 square feet. This stand is a part of the Lovejoy Pine's SCA and it was agreed at a previous Compartment Review that this stand will never be harvested.																																																	
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17	42200 - Natural White Pine	Poletimber Medium	18.5	27	81-110	N/A	Moderate quality white pine stand that is just approaching merchantability. Open areas of low stocking run north-south down the middle and quality is lowest here as most of the stems are open-grown and bushy. The remainder of the stand has some dense areas of good quality white pine. West half of the stand, north of stand 16, sits on a slight side-slope and has better site-quality, this is where most of the red maple and residual red oak are located. Average ba/acre from 7 plots = 86 square feet.																																																	
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18	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	6.7	83	111-140	N/A	Moderate quality red maple stand that sits on slight ridge. Some large, fire-scarred red pine are present. Paper birch is mostly still alive. Average ba/acre from 5 plots = 118 square feet. A unique stand in relation to the surrounding pine dominated landscape. This stand is a part of the Lovejoy Pine's SCA and it was agreed at a previous Compartment Review that this stand will never be harvested.																																																	
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19	42290 - Natural Mixed Pine	Sawtimber Well	6.2	85	81-110	N/A	Moderate quality pine stand with some large diameter trees mixed in throughout. It is more or less a transitional stand with the hardwood stand to the west. Far north end of the stand looks two-aged as there are quite a few small red maple in this area. Trace of jack pine. Average ba/acre from 8 plots = 98 square feet. An old road enters the stand at the south end but quickly disappears as you move north.																																																	
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20	42200 - Natural White Pine	Poletimber Well	99.9	41	81-110	N/A	Nice natural pine stand with a variety of diameters present, although it is dominated by white pine poletimber. Patches of sawtimber-sized trees are mixed in throughout, more common west of the road. There are also large, old legacy trees scattered throughout. The presence of these larger trees gives the stand an uneven-aged look in some areas. The only harvest records are from 1982 when all jack pine and mixed hardwoods were removed. Site quality seems better west of Round Lake Road while the jack pine component picks up east of the road as site quality seems to decline somewhat. Terrain is mostly flat except for a few gradual slopes. Trace of red oak, white oak, and paper birch in the overstory. Average ba/acre from 20 plots = 107 square feet. This stand is a part of the Lovejoy Pines SCA and it was decided at a previous Compartment Review that no harvesting will ever take place within this stand.																																																	
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																	
21	42290 - Natural Mixed Pine	Sawtimber Well	12.8	84	141-170	N/A	High quality natural pine stand that doesn't have any previous harvest records. A variety of diameters are present including some large, old legacy trees (note the age of 119 comes from the previous inventory). The portion of the stand north of the road has a small bog in the center with the surrounding stand on gradual side-slopes. There is more terrain south of the road and is also where most of the deciduous component is located. Average ba/acre from 8 plots = 143 square feet. This stand is a part of the Lovejoy Pines SCA and it was decided at a previous Compartment Review that no harvesting will ever take place within this stand.																																	
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22	42200 - Natural White Pine	Poletimber Well	8.1	27	51-80	N/A	Stand was cut in 1992 to serve as a fuelbreak. Fuelbreak Pine, #53-012-91-01, bought by Stampfly Sawmill, roundwood harvest. White pine has regenerated well throughout most of the stand, there are only a few areas of lower stocking and open-grown trees. Most red maple stems have been heavily damaged by elk. The majority of the stand sits on a slight east-facing slope. Average ba/acre from 5 plots = 74 square feet.																																	
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23	42210 - Natural Red Pine	Sawtimber Medium	29.2	105	1-50	N/A	Stand was a part of the sale East Round Lake Pine, #53-012-11-01, bought by Precision. Roundwood job, cut in the fall of 2016. Majority of the harvested volume was red and white pine but also quite a bit of paper birch (3 truckloads). High quality residual pine trees, most are natural origin, average residual ba/acre = 43 square feet. Two large gaps were made without many residual trees, one at the west end and one south of Road 88. Very minimal scarification took place throughout the stand so red pine regeneration will likely be limited unless further steps are taken. Regeneration up to this point is primarily red maple stump sprouts although they are being browsed very hard. No evidence of any paper birch regen. Rolling terrain. Consider burning this stand. Leave the overstory trees indefinitely.																																	
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24	6127 - Lowland Pine	Poletimber Well	4.3	64	81-110	N/A	Mixed pine stand that is lowland and bog-like (leatherleaf understory) in most of the southern half. The north and east sides transition to drier ground. Pine quality is pretty good despite the wetter ground, although much of the jack pine has died. Average ba/acre from 5 plots = 106 square feet.																																	
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25	42200 - Natural White Pine	Sawtimber Well	1.6	77	81-110	N/A	Small white pine stand that borders the bog to the east and the aspen stand to the west. The middle part of the stand is wet with a leatherleaf understory. Average ba/acre from 3 plots = 97 square feet.																																	
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26	6225 - Bog	Nonstocked	0.3		Unspecified	No																																		
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27	42290 - Natural Mixed Pine	Sawtimber Well	5.3	85	111-140	N/A	Variable stand, both in terms of stocking and diameters. In general the interior of the stand has more poletimber mixed in while the east and west edges have denser sawtimber stocking. This stand may have had a partial harvest long ago as some areas appear two-aged but no sale records were found. No planting records for this area either and the stand appears natural. Some older, large diameter trees scattered throughout. Average ba/acre from 6 plots = 128 square feet. This stand is a part of the Lovejoy Pine's SCA and it was agreed at a previous Compartment Review that no harvesting will ever take place within this stand.																																					
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28	4130 - Aspen	Sapling Well	2.9	16	Immature	N/A	Stand was cut in 2003 in the sale Twin Bog's Block, #53-008-01-01, bought by A.J.D. Stand regenerated well to aspen. The cherry has good form in many places and appears that it will be merchantable. Pine more common along the north and east edges. Some wet ground along the east and south edges.																																					
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29	42110 - Planted Red Pine	Sawtimber Well	20.0	80	141-170	N/A	High quality pine stand. About 2/3rds of the stand is in clumps of dense, planted red pine. The remainder is a mix of red and white pine and appears more natural. Older, fire-charred red pine are rare but present throughout. Portions of the stand sit on a slight ridge. No records of past harvesting. The High Country Pathway travels through some of the stand. Average ba/acre from 11 plots = 165 square feet. This stand is a part of the Lovejoy Pine's SCA and it was agreed at a previous Compartment Review that no harvesting will ever take place within this stand.																																					
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30	42200 - Natural White Pine	Sawtimber Well	13.1	80	111-140	N/A	High quality natural white pine stand with a variety of diameters present. Stand appears uneven-aged in some areas as there is a third age class of large, old legacy trees (age of 119 corresponds to these trees). A few areas heavy to white pine poletimber, more so east of the road. Average ba/acre from 11 plots = 115 square feet. Old OI notes indicate this stand was thinned in 1983 but that is the only record of a harvest here. No planting records for this area. This stand is a part of the Lovejoy Pine's SCA and it was agreed at a previous Compartment Review that no harvesting will ever take place within this stand.																																					
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31	42210 - Natural Red Pine	Sawtimber Well	53.8	82	141-170	N/A	High quality pine stand. Stocking varies somewhat, likely a result of a light thinning that took place in the stand in 1983. Planting records for red pine are available for the western 2/3rds of the stand but in most places this looks like a natural stand. An older age class of large diameter trees is present. Gently rolling terrain with some slight north-south running ridges. There is a sinkhole-like depression in the middle of the stand and it doesn't appear to be wet. Trace of jack pine and quaking aspen in the overstory. Average ba/acre from 16 plots = 144 square feet. This stand is a part of the Lovejoy Pines SCA and it was decided at a previous Compartment Review that no harvesting will ever take place within this stand.																																					
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32	42210 - Natural Red Pine	Sawtimber Well	8.3	85	111-140	N/A	<p>Mediocre quality pine stand, not nearly as nice as surrounding stands. This stand had a heavy partial harvest in 1983, removing everything except red pine, white pine, and oak. As a result, the BA's tend to vary. An older age class of large pine is scattered throughout. Terrain is mostly flat. Trace of red oak. Average ba/acre from 5 plots = 130 square feet. This stand is a part of the Lovejoy Pines SCA and it was decided at a previous Compartment Review that no harvesting will ever take place within this stand.</p>																																															
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33	42210 - Natural Red Pine	Sawtimber Well	30.7	85	111-140	N/A	<p>Stand cut as part of the sale Runs-the-Gamut Mix, #53-020-11-01. Cut in winter/spring of 2017 by a Precision roundwood crew, except for poles which were skidded out at length. Very high quality stand. No planting records found for this section so I'll code as natural. Stand had an understory prescribed burn in 2002. Virtually no understory regeneration at this time. Average ba/acre from 6 plots = 130 square feet. This stand is a part of the Lovejoy Pine's SCA and will be managed for big trees using uneven-aged techniques.</p>																																															
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34	42290 - Natural Mixed Pine	Sawtimber Well	77.5	85	111-140	N/A	<p>- Nice natural pine stand with a lot of variability in diameters and stocking. This stand must have been thinned long ago as basal areas tend to vary considerably and there are several areas of lower stocking that have now filled in with poletimber and saplings. Along with this younger age class, there are two definite age classes of pine in the overstory, including a supercanopy of large diameter, older trees. All of these age classes combine to form an uneven-aged structure. Average ba/acre from 15 plots = 133 square feet. - This stand is part of the Lovejoy Pines SCA and will be managed for big trees using uneven-aged techniques. Since this stand is already showing uneven-aged characteristics, it provides a nice example of how other stands should be managed in the SCA. - Planting records do exist for the southwest quarter of the stand but the remainder does not have any. There are only a few areas where the red pine appears oriented in rows.- Trace of quaking aspen, red oak, sugar maple, and white spruce in the overstory.- Flat terrain.</p>																																															
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35	42210 - Natural Red Pine	Sawtimber Well	106.0	85	111-140	N/A	<p>Very high quality stand. Stand was thinned in 2012 as part of Pina Colada Pine, sale # 53-014-11-01, bought by Biewer. Operators did a very nice job, almost no residual damage. Red maple understory is more abundant in the north half. Red pine has seeded into a few areas. Trace of hemlock in the overstory. Gently rolling terrain. Planting records exist for the south half of the stand but not the north half. Average ba/acre from 14 plots = 112 square feet. This stand is part of the Lovejoy Pines SCA and will be managed for big trees using uneven-aged techniques.</p>																																															
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36	42110 - Planted Red Pine	Sawtimber Medium	25.2	85	81-110	N/A	<p>This stand had a partial harvest in 1992, removing everything except red pine, white pine, and oak. As a result the residual stocking is variable and not uniform. There are a few areas of lower BA where jack pine and white pine have regenerated well. Overall, the red pine quality is quite low with shorter trees and crooked stems from past porcupine damage. The exception would be the southeast end where site quality increases and white pine picks up in abundance. Trace of red oak and red maple in the overstory. Average ba/acre from 9 plots = 92 square feet.</p> <p>At a previous Compartment Review it was agreed that this stand be included in the Lovejoy Pine's SCA and that no harvesting activity would take place in this stand.</p>																																					
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37	42110 - Planted Red Pine	Sawtimber Poor	20.4	86	1-50	N/A	<p>Stand cut as part of East Round Lake Pine, #53-012-11-01, bought by Precision. Roundwood harvest in the late winter 2016. Prior to being cut this stand was a fully-stocked red pine plantation that may have only been thinned once. High quality residual pine trees, with a few of natural origin. Average ba/acre of the residual = 24 square feet. There is some mortality occurring on the residual red pine mostly towards the south end in the middle part of the stand. Some red pine seedlings are showing up in the skid trails. Very minimal scarification took place here so further red pine regeneration will likely be limited unless further steps are taken.</p>																																					
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38	42290 - Natural Mixed Pine	Sawtimber Well	2.5	85	81-110	N/A	<p>Stand had a partial harvest removing everything except red pine, white pine, and oak. A variety of diameters are present. Some decent white pine is coming back although the residual BA is quite high, especially along the north edge. Not sure how this was coded a jack pine stand previously, there is only a trace amount of it in the stand. Average ba/acre from 4 plots = 110 square feet.</p>																																					
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39	42210 - Natural Red Pine	Sawtimber Well	12.2	82	141-170	N/A	<p>Nice pine stand, the majority of which sits on steep slopes that lead down to the bog. Some areas looked planted, others not so much as there is a percentage of larger, natural red pine mixed in. The oak component is mostly on the west/northwest side. Trace of paper birch, black spruce, and balsam fir. Average ba/acre from 10 plots = 154 square feet. A spur of the High Country Pathway travels the length of the stand along the west/northwest portion. There was a small wildfire in 2013 along this side. No recent tree mortality as the fire was not very intense with flame lengths of only 1-2 feet. This stand is a part of the Lovejoy Pines SCA and will not be managed.</p>																																					
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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40	6224 - Treed Bog	Nonstocked	7.3		Unspecified	No				
							Canopy Species	Density	Avg. Height	Size
							White Pine	Medium	Variable	Sapling
							White Pine	Low	>20 feet	Pole
							Black Spruce	Medium	Variable	Sapling
							Black Spruce	Low	>20 feet	Pole
							Red Pine	Low	Variable	Sapling
							Red Pine	Trace	>20 feet	Pole
							Jack Pine	Low	Variable	Sapling
							Tamarack	Trace	Variable	Sapling
Leatherleaf	Full	< 5 feet	Tall Shrub							

Bog that is almost forested. A ring of trees is present along most of the edges. The interior has a smaller amount of trees. This stand has been identified as an ERA by MNFI. A small wildfire in 2013 that was mostly in stand 39 dipped down into a small sliver of this stand along the west/northwest boundary line.

41	4319 - Mixed Upland Forest	Sapling Well	28.4	36	1-50	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age
Red Oak	18	Log/XLog	15	85
Red Pine	15	Pole/Sapling	5	
White Pine	27	Sapling/Pole/Log	4	36
Red Maple	25	Sapling	3	

Stand was harvested in 1983 by Champion, all species were cut except for oak. 291 cords of paper birch were harvested, followed by white pine, aspen, and maple. Birch has not regenerated due to browse. The middle part of the stand sits on a gradual east-facing slope and the west edge sits on top of the slope. These areas are where the majority of the residual oak and other deciduous species are located. The red oak residual is high quality and healthy. The red maple regeneration doesn't look very good as most of the stems have damaged boles from elk. Previous inventory notes show that elk browse was an issue as well when the regen was younger. Pine is more dominant in the east half of the stand where the terrain is mostly flat and site quality declines. The denser clumps of pine are decent quality but there are also several open-grown, bushy white pine as well. A few pockets of larger pine are present that must have been left when the stand was cut. It looks like there used to be more aspen regen in the stand but most of what I found was dead. Trace amount of red oak regen. An old road follows the top of the ridgeline for the length of the stand. The red oak residual averages 16 square feet per acre.

42	42110 - Planted Red Pine	Sawtimber Well	130.3	85	81-110	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age
Red Oak	6	Log	13	
White Pine	20	Log/Pole/XLog	12	
Red Pine	72	Log/Pole/XLog	13	85

Canopy Species	Density	Avg. Height	Size
White Pine	High	Variable	Sapling
Red Maple	Medium	Variable	Sapling
Red Pine	Trace	Variable	Sapling
Beech	Trace	Variable	Sapling
Jack Pine	Trace	Variable	Sapling
Red Oak	Trace	Variable	Sapling
Witch Hazel	Trace	5 - 10 feet	Tall Shrub

Relatively high quality pine stand which was thinned in 2012 as part of the Pina Colada Pine timber sale, sale # 53-014-11-01, bought by Biewer. Average residual ba/acre from 23 plots = 108 square feet. There are scattered areas where marked trees were not cut, some of these were in areas where it wasn't marked heavy enough to allow equipment access. The far east side of the stand, adjacent to stand #41, sits on a slight ridge and was excluded from the thinning due to lower basal areas. Prior to the recent thinning there was a species removal harvest in 1992, which cut everything except red pine, white pine, and oak. The southwest corner was not included in the species removal however, and still has a small amount of maple, birch, and aspen. Topography is generally flat with the exception of some rolling terrain at the south end. There are also two forested, sinkhole-like depressions on the north side of the bog (stand #43). This stand is a part of the Lovejoy Pine's SCA and will be managed for big trees using uneven-aged management techniques.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																	
43	6224 - Treed Bog	Nonstocked	1.7		Unspecified	No																																																																		
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44	4319 - Mixed Upland Forest	Sawtimber Well	17.3	84	81-110	N/A	Unique stand, at least in relation to the west half of this Compartment, in that it is dominated more by deciduous species than pine. Most species display good growth and quality except for the red maple which is mostly poletimber size. Birch used to be much more prevalent but most of it has died. Rolling terrain with some short, steep slopes, most of which are in the south half of the stand. Average ba/acre from 11 plots = 109 square feet. The High Country Pathway travels through a large portion of the stand. This stand is a part of the Lovejoy Pines SCA and it was agreed at a previous Compartment Review that no harvesting will ever take place in this stand.																																																																	
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45	42200 - Natural White Pine	Sawtimber Well	2.2	84	111-140	N/A	This stand sits in a sinkhole-like depression. There appears to be some wet ground in the middle. A variety of white pine diameters are present including some very large, old legacy trees. Average ba/acre from 3 plots = 130 square feet. Unique stand, do not ever manage. This stand is a part of the Lovejoy Pines SCA.																																																																	
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46	6112 - Lowland Aspen	Sawtimber Poor	2.7	95	1-50	N/A	Poorly-stocked lowland aspen stand that is split by the Pigeon River. West of the river has more aspen and less alder. East has most of the spruce and birch. Looks to me like there is a younger age class of aspen and birch in the stand as there is some variation in diameters. Average ba/acre from 4 plots = 45 square feet. No management. Stand is within the Natural Rivers corridor.																																																																	
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47	6225 - Bog	Nonstocked	1.7		Unspecified	No	A good portion of the saplings along the perimeter are either dead or dying. I'm guessing that water levels have risen in the past couple of years? Difficult to tell with all of the snow on the ground but there may be standing water here.																																																																	
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48	42110 - Planted Red Pine	Sawtimber Well	156.9	85	111-140	N/A	<p>Nice pine stand that hasn't had a treatment in quite some time. The last harvest was a species removal in 1991, bought by Georgia Pacific, where everything except red pine, white pine, and oak were cut. As a result of the species removal, the residual stocking is highly variable, with residual basal area plots ranging anywhere from 30-210 square feet per acre. There are several areas of low BA and good regeneration mixed in throughout. There are also several areas of dense stocking that are due to be thinned. The overall basal area from 25 plots averages 131 square feet. While the majority of the stand was planted there is a second age class of larger, natural red pine mixed in. These trees seem to be more common in the middle and southeast portions of the stand and occur both individually and in clumps. Terrain is mostly flat except for a few gradual slopes which are mostly along the eastern stand line. Also found two small sinkhole-like depressions that are dry (see reference layer for locations). This stand is part of the Lovejoy Pines SCA and will be managed for big trees using uneven-aged techniques. The High Country Pathway travels through a large part of the stand, with a parking lot for the trailhead at the far northwestern corner, adjacent to Sturgeon Valley Road. In this part of the stand there is a small clump of aspen and maple that somewhat surrounds the parking lot.</p>																																																		
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49	42290 - Natural Mixed Pine	Sawtimber Well	14.4	85	81-110	N/A	<p>Natural mixed pine stand that directly borders Sturgeon Valley Extension Road. A variety of diameters are present making it look two-aged in places. Areas heavy to white pine poletimber more common along the southern stand edge. No sale or planting records found for this stand. The aspen and maple component is more common at the far west end. Trace of beech in the overstory. Average ba/acre from 9 plots = 97 square feet. This stand is a part of the Lovejoy Pine's SCA and will be managed for big trees using uneven-aged techniques. No treatment needed at this time since sawtimber stocking is still relatively light.</p>																																																		
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50	42110 - Planted Red Pine	Sawtimber Well	11.3	85	141-170	N/A	<p>Moderate quality red pine stand with highly variable stocking, which is a result of a species removal harvest in 1991 that removed everything except red pine, white pine, and oak. There are a few veins of very high basal area, particularly in the east finger of the stand. Larger diameter trees are present in the west end of the stand. There is also a forested sinkhole-like depression at this end. South half has some rolling terrain and slopes down towards the bog. Trace of red oak, jack pine, paper birch, and red maple in the overstory. Average ba/acre from 8 plots = 141 square feet. The High Country Pathway travels through a large part of this stand. This stand is a part of the Lovejoy Pine's SCA and will be managed for big trees using uneven-aged techniques.</p>																																																		
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53	42110 - Planted Red Pine	Sawtimber Medium	18.3	84	81-110	N/A	<p>Highly variable red pine overstory due to a species removal harvest in 1992 which cut everything except red pine, white pine, and oak. The sale was 391 Jack Pine Thin, #53-013-91-01, bought by Georgia Pacific. Some areas of dense stocking along the eastern stand line which could be thinned but the remainder of the stand has several areas of lower stocking which have regenerated well to jack pine and white pine. The red maple understory is mostly along the west edge where site quality increases. The middle part of the stand sits in somewhat of a trough and slopes up to the east and west on the sides. Average ba/acre from 7 plots = 101 square feet. This stand is a part of the Lovejoy Pines SCA.</p>																																																		
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
400	310 - Herbaceous Openland	Nonstocked	4.0		Unspecified	Managed Opening	This stand was apparently burned at one point to maintain it as an opening. White pine seeded in quite heavily. The south end of the stand was recently used a landing for the 4 Corner Hardwoods sale. The High Country Pathway passes through the stand in the middle.	
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				Red Pine	Low	Variable		Sapling
				Red Pine	Trace	>20 feet		Pole
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