



Compartment Review Presentation

Pigeon River Country Forest Management Unit

Compartment 53044

Entry Year 2021

Acreage: 908

County Otsego

Management Area: Pigeon River Country

Revision Date: 2019-04-05

Stand Examiner: Greg Rekowski

Legal Description:

T31N R01W Sections 6 and 7

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:

Tawas-Lupton muck is the predominate organic soil found in the lowland areas of the Compartment. Upland areas are characterized by an even mix of Lindquist sands, Rubicon sands, and Chinwisker sands. Terrain is very flat throughout the entire Compartment with only a few small areas of gently rolling terrain at the north end.

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

Solid block of State ownership although most of the Compartment boundary in Section 7 borders private land.

Unique Natural Features:

None identified at this time.

Archeological, Historical, and Cultural Features:

There are no known historical or archeological features within the Compartment.

Special Management Designations or Considerations:

None identified at this time.

Watershed and Fisheries Considerations:

Several small streams flow through the swamp conifer stands, eventually joining with the Black River further to the east.

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 glacial outwash sand and gravel and postglacial alluvium. The glacial drift thickness varies between 600 and 800 feet. Beneath the glacial drift is the Devonian Antrim Shale that is quarried for cement products elsewhere in the State. Gravel pits are located to the west and potential is good 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 partially leased for oil and gas development and some of the State lands have been developed for Guelph (Niagaran) reefs. The Antrim Shale is present and also has potential. 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 for access and recreational needs.

Survey Needs:

None identified.

Recreational Facilities and Opportunities:

None identified.

Fire Protection:

Fire risk is generally high in the upland areas of this Compartment due to the presence of red, white, and jack pine. Access is good in the event of suppression activities. Closed roads are blocked off with berms.

Additional Compartment Information:

The following reports from the Inventory are attached:

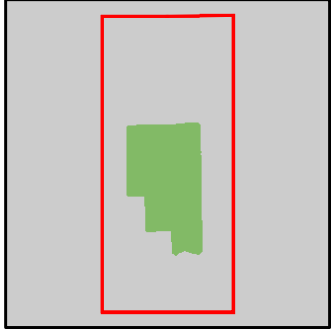
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

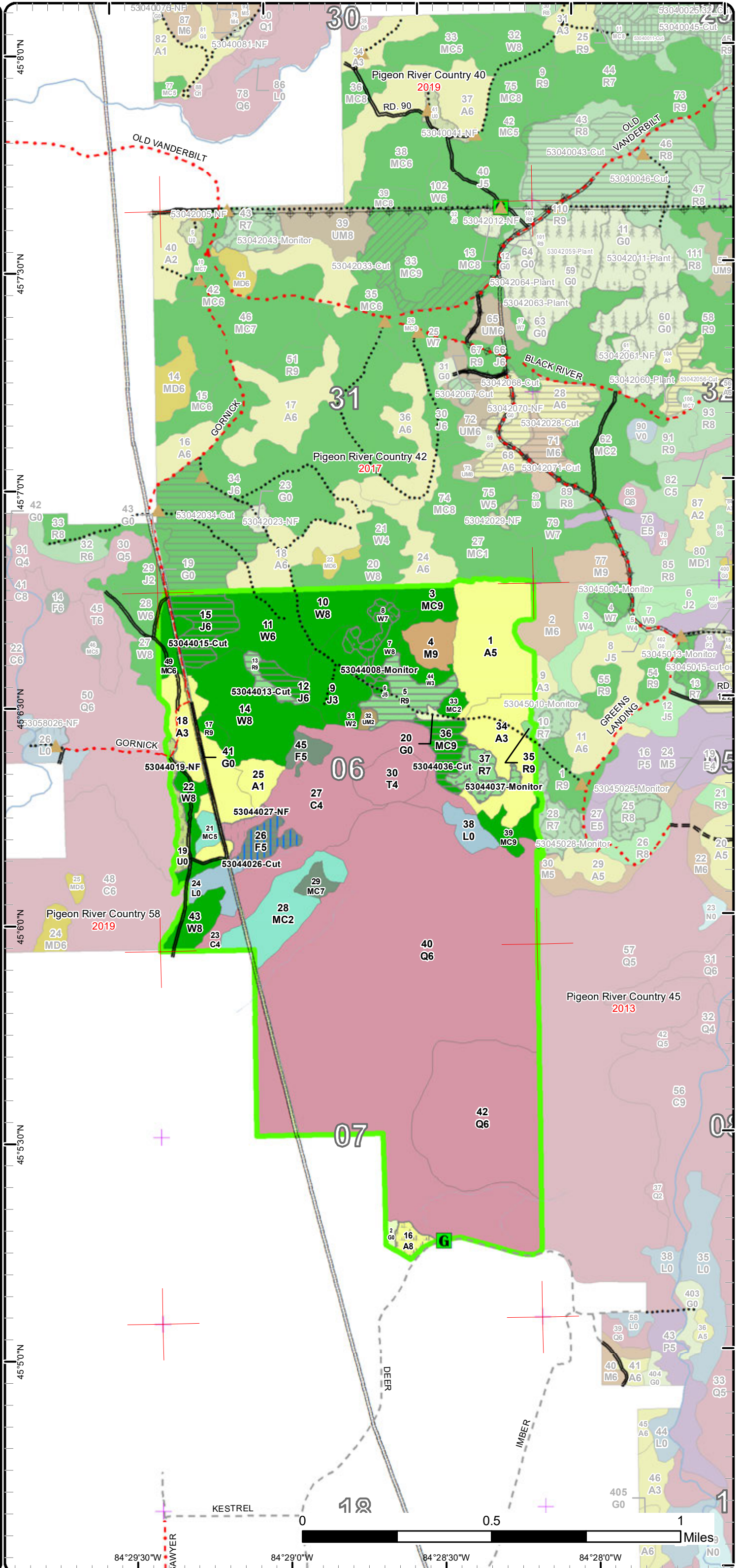
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 44
 T31N, R01W, Sec. 06, 07
 County: Otsego
 Unit: Pigeon River Country
 Mgmt Area: Pigeon River Country
 YOE: 2021
 Acres: 908 GIS Calculated
 Examiner: Greg Rekowski
 Map Revised: 6/12/2019
 Map Phase: Web-Post



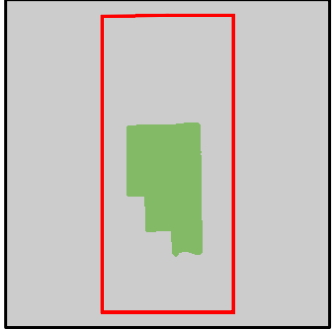
- Miris Corners
- + Remonumented Section Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- DNR - Management Access (NLP)
- Intermittent Stream
- Perennial River
- Berms
- G Gate
- Pipeline
- Powerline
- Compartment Boundary
- Other Treatment - See Comments
- Clearcut (w/Reserves)
- Seed Tree (w/Reserves)
- Regeneration Survey
- Opening Maintenance
- 411 - Northern Hardwood
- 413 - Aspen
- 421 - Planted Pines
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
- 612 - Lowland Coniferous Forest
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 622 - Lowland Shrub



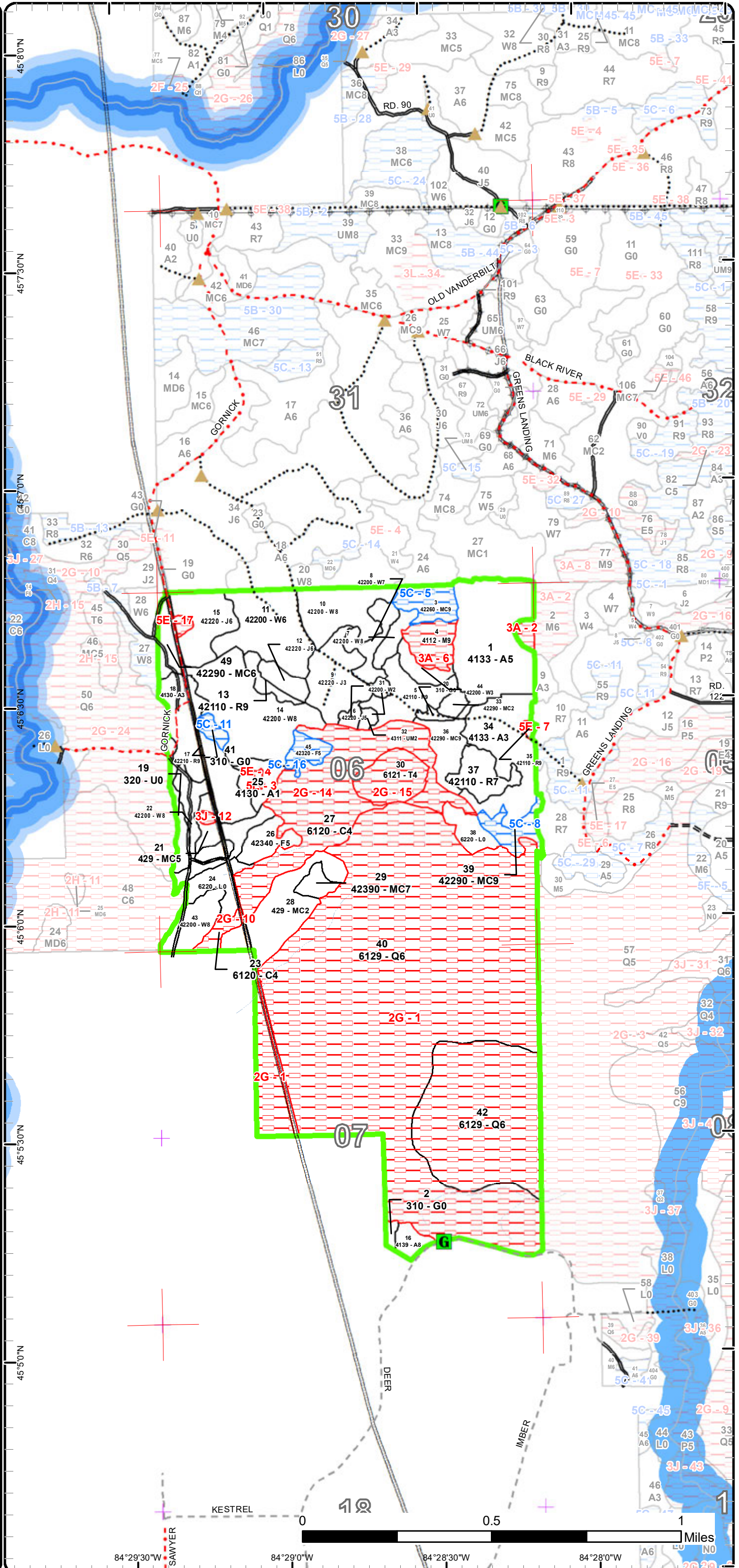
84°29'30"W 84°29'0"W 84°28'30"W 84°28'0"W

Special Conservation Areas & Site Conditions Map

Compartment: 44
 T31N, R01W, Sec. 06, 07
 County: Otsego
 Unit: Pigeon River Country
 Mgmt Area: Pigeon River Country
 YOE: 2021
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- Miris Corners
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- G Gate
- Pipeline
- Powerline
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 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
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- Cold Water Streams
- High Priority Trout Stream Buffer



Report 1 – Total Acres by Cover Type and Age Class



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	35	0	27	40	0	0	0	4	0	0	0	0	0	0	0	0	0	106
Cedar	0	0	0	0	0	0	0	0	0	0	0	70	0	0	0	0	0	0	70
Herbaceous Openland	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
Jack Pine	0	0	0	17	22	0	0	0	0	0	0	0	0	0	0	0	0	0	39
Lowland Conifers	0	0	0	0	0	0	0	0	0	0	0	422	0	0	0	0	0	0	422
Lowland Shrub	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14
Natural Mixed Pines	0	0	3	0	6	0	0	0	9	17	0	0	0	0	0	0	0	0	34
Northern Hardwood	0	0	0	0	0	0	0	0	0	9	0	0	0	0	0	0	0	0	9
Red Pine	0	0	0	0	0	0	0	0	0	27	3	0	0	0	0	0	0	0	30
Tamarack	0	0	0	0	0	0	0	13	0	0	0	0	0	0	0	0	0	0	13
Upland Conifers	0	0	0	22	0	0	3	0	0	4	0	0	0	0	0	0	0	0	29
Upland Mixed Forest	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Upland Shrub	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Upland Spruce/Fir	0	0	0	0	0	0	7	5	0	0	0	0	0	0	0	0	0	0	12
White Pine	0	0	7	0	25	0	0	19	30	35	0	0	0	0	0	0	0	0	116
Total	30	35	12	66	93	0	10	37	43	83	12	492	0	0	0	0	0	0	912



Report 2 – Treatment Summary

Acres of Harvest

Commercial Harvest - 54
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
Jack Pine	21	0	0	0	0	0	0	0	0	21
Natural Mixed Pines	9	0	0	0	0	0	0	0	0	9
Red Pine	17	0	0	0	0	0	0	0	0	17
Upland Spruce/Fir	0	0	0	7	0	0	0	0	0	7
Total	47	0	0	7	0	0	0	0	0	54

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	54	0	0	0	0	18	0	14	0	86
Next Step	0	32	32	0	0	122	0	0	0	185
Total	54	32	32	0	0	139	0	14	0	271



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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
34 53042034-Cut	41.1	42220 - Natural Jack Pine	Poletimber Well	41	81-110	Harvest	Clearcut with Retention	4222 - Natural Jack Pine	Even-Aged	Proposal

Habitat Cut: No

Site Condition:

Prescription Cut all species except for any white pine over 15" DBH or any red pine. Leave scattered jack pine seed trees, either individually or in groups of 2-3, spaced at least 2-3 chains apart. Utilize retention for the area along the west edge (already excluded) that is wet and has some bog characteristics (black spruce, leatherleaf). Add one more retention pocket in the northern part of the stand.

Next Step Monitoring, Natural Regen (Intermediate)
Treatments:

Acceptable Regen: Fully-stocked stand of jack pine.

Other Comment: Require whole-tree harvesting in snow-free months to promote ground scarification. Communicate with loggers about utilizing different skid trail routes so that scarification can be spread out evenly.

Leave the option open for supplemental planting if regen falls below standards.

Proposed Start Date: 4 /9 /2019

5 53044005-Cut	13.2	42110 - Planted Red Pine	Sawtimber Well	88	81-110	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	Proposal
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Habitat Cut: No

Site Condition:

Prescription Clearcut. Leave oak, there may be one or two in the stand. No area retention due to the small size. Require chipping and low stumps. Monitor natural regen 2 years after harvest to see if pine has seeded in. If natural seeding falls below regen guidelines for red or jack pine then initiate steps to trench and plant the site to red pine.

Next Step Monitoring, Natural Regen (Intermediate); SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial
Treatments: Regen(3yr)

Acceptable Regen: Fully-stocked stand of planted red pine.

Other Comment:

Proposed Start Date: 10/1 /2020

6 53044006-Cut	1.4	42220 - Natural Jack Pine	Poletimber Medium	37	1-50	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	Proposal
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Habitat Cut: No

Site Condition:

Prescription Clearcut. No area retention due to the small size. Require chipping and low stumps. Monitor natural regen 2 years after harvest to see if pine has seeded in. If natural seeding falls below regen guidelines for red or jack pine then initiate steps to trench and plant the site to red pine.

Next Step Monitoring, Natural Regen (Intermediate); SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial
Treatments: Regen(3yr)

Acceptable Regen: Fully-stocked stand of planted red pine.

Other Comment:

Proposed Start Date: 10/1 /2020

8 53044008-Monitor	8.1	42200 - Natural White Pine	Sawtimber Poor	78	1-50	Monitoring	Natural Regen (Intermediate)	4319 - Mixed Upland Forest	Two-Aged	Draft Field Boundary
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Habitat Cut: No

Site Condition:

Prescription Natural regen survey.
Specs:

Next Step Treatments:

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

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
12 53044012-Cut	4.7	42220 - Natural Jack Pine	Poletimber Well	37	81-110	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	Proposal

Habitat Cut: No

Site Condition:

Prescription Clearcut. No area retention due to the small size of the stand. Require chipping and low stumps. Monitor natural regen 2 years after harvest to see if pine has seeded in. If natural seeding falls below regen guidelines for red or jack pine then initiate steps to trench and plant the site to red pine.

Next Step Monitoring, Natural Regen (Intermediate); SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Treatments: Regen(3yr)

Acceptable Regen: Fully-stocked stand of planted red pine.

Other Comment: Access is possible through the closed road that runs south through stand 9 (J3). See 98DOQ imagery as a part of the road at the south end spurs off towards the west, close to the east end of stands 12 and 13.

Proposed Start Date: 10/1 /2020

13 53044013-Cut	3.5	42110 - Planted Red Pine	Sawtimber Well	89	111-140	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	Proposal
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Habitat Cut: No

Site Condition:

Prescription Clearcut. No area retention due to the small size. Leave any white pine over 20"+ DBH. Require chipping and low stumps. Monitor natural regen 2 years after harvest to see if pine has seeded in. If natural seeding falls below regen guidelines for red or jack pine then initiate steps to trench and plant the site to red pine.

Next Step Monitoring, Natural Regen (Intermediate); SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Treatments: Regen(3yr)

Acceptable Regen: Fully-stocked stand of planted red pine.

Other Comment: Access is possible through the closed road that runs south through stand 9 (J3). See 98DOQ imagery as a part of the road at the south end spurs off towards the west, close to the east end of stands 12 and 13.

Proposed Start Date: 10/1 /2020

15 53044015-Cut	14.9	42220 - Natural Jack Pine	Poletimber Well	37	81-110	Harvest	Clearcut with Retention	4222 - Natural Jack Pine	Even-Aged	Proposal
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Habitat Cut: No

Site Condition:

Prescription Cut all species except for any white pine over 15" DBH or any red pine. Leave scattered jack pine seed trees, either individually or in groups of 2-3, spaced 2-3 chains apart. Utilize retention for the area along the west edge (already excluded) that is mostly white pine sawtimber and saplings.

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

Acceptable Regen: Fully-stocked stand of jack pine.

Other Comment: Require whole-tree harvesting in snow-free months to promote ground scarification. Communicate with loggers about utilizing different skid trail routes so that scarification can be spread out evenly.

Leave the option open for supplemental planting if the regen falls below standards.

Proposed Start Date: 10/1 /2020

16 53044016-NF	3.9	4139 - Aspen, Mixed Deciduous	Sawtimber Medium	72	51-80	NonForestMgt	Other - Specify	413 - Aspen	Even-Aged	Proposal
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Habitat Cut: No

Site Condition:

Prescription Non-commercial treatment. Cut all aspen to reinvigorate new sprouting. Retain all sawlog size oak, birch, and sugar maple. Knock down the ironwood understory.

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

Acceptable Regen: Aspen is the desired goal but any mix of species is acceptable in the regeneration.

Other Comment:

Proposed Start Date: 10/1 /2020



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
19	53044019-NF	5.7	320 - Upland Shrub	Nonstocked		Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Proposal

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

26	53044026-Cut	7.3	42340 - Upland Spruce/Fir	Poletimber Medium	58	51-80	Harvest	Seed Tree	429 - Mixed Upland Conifers	Two-Aged	Proposal
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Habitat Cut: No

Site Condition:

Prescription Cut all trees except for white pine and cedar. White pine averages about 10 square feet of basal area, cedar is rare throughout. Mark a few scattered clumps of spruce to retain a seed source on site. Mark the poor form, weevil-damaged white pine as cut and leave trees for coarse woody debris and drumming logs. Retain all large diameter snags.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Medium to fully-stocked stand of spruce, fir, and pine. Any additional mix of species will be acceptable.

Regen:

Other Use crane mat specs. Site visit with site condition forester resulted in an estimated need of 28-30 crane mats (not composite). Coordinate with site condition forester.

A very wet drainage separates the eastern "bubble" of the stand from the remainder. Ensure loggers are aware of this and appropriate measures are taken to avoid soil damage.

Proposed Start Date: 10/1 /2020

27	53044027-NF	4.3	6120 - Lowland Cedar	Poletimber Poor	102	51-80	NonForestMgt	Brush Cutting	6229 - Mixed lowland shrub		Proposal
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Habitat Cut: No

Site Condition:

Prescription Use RGS machine to mow down alder and other shrubs as well as all trees that it is capable of felling.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2019

36	53044036-Cut	9.0	42290 - Natural Mixed Pine	Sawtimber Well	88	81-110	Harvest	Clearcut with Retention	42110 - Planted Red Pine	Even-Aged	Proposal
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Habitat Cut: No

Site Condition:

Prescription Clearcut with retention. Retain all legacy size white and red pine. Add a few small retention pockets (0.1-0.5 acres) around areas of larger, natural red pine or areas with a spruce/fir component. Add chipping and low stump specs. Monitor natural regen 2 years after harvest to see if pine has seeded in. If natural seeding falls below regen guidelines for red or jack pine then initiate steps to trench and plant the site to red pine.

Next Step Monitoring, Natural Regen (Intermediate); SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)

Acceptable Fully-stocked stand of planted red pine.

Regen:

Other Exclude wet transitional ground along the west edge that won't be suitable for post-harvest trench and plant operations, this may result in significant area reductions for the stand (1-2 acres).

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
37 53044037-Monitor	9.6	42110 - Planted Red Pine	Sawtimber Poor	89	1-50	Monitoring	Natural Regen (Intermediate)	4319 - Mixed Upland Forest	Two-Aged	Draft Field Boundary

Habitat Cut: No

Site Condition:

Prescription Natural regen survey.

Specs:

Next Step

Treatments:

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

Other

Comment:

Proposed Start Date: 10/1 /2020

Total Treatment Acreage Proposed: 126.7

Report 4 – Site Conditions

Pigeon River Country Mgt. Unit

Compartment: 44

Greg Rekowski : Examiner

Year of Entry: 2021

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions				
		With Condition	Not Available		5C	2G	3A	3J	5E
105	105	0	0	Aspen					0
70	4	0	65	Cedar		65			
10	10	0	0	Herbaceous Openland					
39	38	0	1	Jack Pine					1
422	0	0	422	Lowland Conifers		422			
14	14	0	0	Lowland Shrub					
33	17	16	0	Natural Mixed Pines	16				
9	0	0	9	Northern Hardwood			9		
30	26	3	1	Red Pine	3				1
13	0	0	13	Tamarack		13			
29	28	0	1	Upland Conifers				1	
1	1	0	0	Upland Mixed Forest					
6	6	0	0	Upland Shrub					
12	7	5	0	Upland Spruce/Fir	5				
115	115	0	0	White Pine	0				
908	372	24	513	Total Forested Acres	24	501	9	1	2
	41%	3%	56%	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	2G: Too wet (sensitive soils, does not include access issues)	422	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
2	Unavailable	3A: Conservation Values incompatible with harvest at this time	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Do not manage due to uniqueness of northern hardwood type in the surrounding landscape. Lump with stand in Comp 45.							

Report 4 – Site Conditions

Pigeon River Country Mgt. Unit
Greg Rekowski : Examiner

Compartment: 44
Year of Entry: 2021

3	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	3A: Conservation Values incompatible with harvest at this time	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Northern hardwoods uncommon in the surrounding landscape. Leave this stand unmanaged, along with the adjoining stands in adjacent compartments.							
7	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Retention for the adjacent harvest to the east.							
8	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Pigeon River Country Mgt. Unit

Compartment: 44

Greg Rekowski : Examiner

Year of Entry: 2021

10	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Small acreage which would make it difficult to treat on its own.							
12	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	1	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments: Small wetland pocket within stand 21.							
14	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	62	5D: Unproductive Forest Land	Unspecified	Unspecified	Unspecified
Comments: Very wet, stagnant trees.							
15	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Very wet, looks stagnant as well.							

Report 4 – Site Conditions

Pigeon River Country Mgt. Unit

Compartment: 44

Greg Rekowski : Examiner

Year of Entry: 2021

16	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Most of this stand is dry enough to harvest but it is isolated and surrounded by regenerating stands that do not need any treatment for quite some time.							
17	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Area of white pine sawtimber and saplings to be utilized as retention for the adjacent harvest.							

Mgt. Unit

Compartment: #Type!

Year of Entry:



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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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	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.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																														
1	4133 - Aspen, Mixed Pine	Poletimber Medium	39.9	36	81-110	N/A	Stand was clearcut in 1983 as part of the Townline Aspen sale (#53-044-81-01), bought by Champion. Aspen regenerated ok but there are several open areas without much regeneration, which as noted in previous OI notes, are a result of elk browse. The aspen tends to alternate between clones of quaking and bigtooth. The quaking is still quite small at this point however the bigtooth is showing excellent growth, likely a result of the open nature of the stand. Clumps of pine are common throughout, quality is only mediocre however some of the denser pockets have nice stems. Heavy deer and elk use in the stand. Average ba/acre from 11 plots = 97 square feet.																																																														
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2	310 - Herbaceous Openland	Nonstocked	1.3		Unspecified	No	DNR survey corner is in at the SW side of this stand.																																																														
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3	42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	8.7	78	111-140	N/A	Moderate to high quality white pine dominated stand with quite a bit of variation in diameters. Aspen component most common in the NE part of the stand. Appears to be two-ages of aspen and OI notes support this, indicating a portion of this stand had a partial harvest in 1967. A lot of the larger aspen is declining, providing good wildlife habitat. Trace of hemlock, balsam fir, and black cherry in the overstory. Heavy browse on the red maple understory. Average ba/acre from 7 plots = 127 square feet. Not ready for a thinning yet but may be in ten years.																																																														
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4	4112 - Maple, Beech, Cherry Association	Sawtimber Well	9.1	91	111-140	N/A	Moderate quality hardwood stand that is heavy to red maple. Diameters tend to decrease along the perimeter of the stand. At one time there was some hemlock in the stand but it is mostly dead now, appears to be from porcupines. Some large diameter beech are present, most have BBD though. Average ba/acre from 6 plots = 120 square feet. Leave this stand unmanaged due to its unique character in relation to the surrounding pine dominated landscape.																																																														
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5	42110 - Planted Red Pine	Sawtimber Well	13.2	88	81-110	N/A	Stand harvested in 2002 as part of the Homestead Pine Block sale, bought by AJD. All species cut except for red pine and oak. Residual stand is pretty high quality. There is a small area of aspen, jack pine, and red maple along the northwestern edge of the stand. Average ba/acre from 10 plots = 97 square feet. South edge of the stand starts to transition to wetter ground.																																																														
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6	42220 - Natural Jack Pine	Poletimber Medium	1.4	37	1-50	N/A	Not well-stocked and low quality. Portion of stand south of the road has a couple aspen in it. North edge of stand has a small east-west running ditch, not sure what this was for? Average ba/acre from 2 plots = 35 square feet.																																																		
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7	42200 - Natural White Pine	Sawtimber Medium	4.4	78	51-80	N/A	Stand had everything except red pine, white pine, and oak removed in 1992 in the sale McCourt's Aspen, bought by Georgia Pacific. As a result of the species removal the distribution of the residual overstory is variable. There is also quite a bit of variation in diameters on the pine. Regeneration seems to be best in the south half of the stand where the residual BA is lower. Really not much aspen regen other than a few small clumps. A few small areas along the west edge have a little aspen, jack pine, and red maple that was not included in the adjacent harvest in stand 8. Average residual ba/acre from 5 plots = 72 square feet.																																																		
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8	42200 - Natural White Pine	Sawtimber Poor	8.1	78	1-50	N/A	Stand cut in 2016 as part of Compartment 44 Red Pine, #53-015-11-01, bought by Precision. Roundwood job so not much scarification took place. Not much regeneration showing up yet, monitor again at next inventory cycle. Average ba/acre from 4 plots = 40 square feet.																																																		
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9	42220 - Natural Jack Pine	Sapling Well	17.1	27	Immature	N/A	Stand cut as part of McCourt's North and East timber sale, #53-005-91-01, bought by Georgia Pacific, whole-tree harvest. All aspen, red maple, and jack pine were removed. Residual red and white pine are only a small amount in this stand. Jack pine has regenerated very well here and is dense throughout most of the stand. Some areas of blowdown and broken tops from a heavy snowstorm in 2012 that did damage to similar stands in the area.																																																		
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10	42200 - Natural White Pine	Sawtimber Medium	17.6	73	81-110	N/A	Stand cut as part of McCourt's North and East timber sale, #53-005-91-01, bought by Georgia Pacific, whole-tree harvest. All aspen, red maple, and jack pine were removed. As a result of the species removal, the residual pine is patchy in distribution. There is also a lot of variety in the diameters of the residual pine, with quite a few small stems present. White pine has regenerated well in many areas. Red maple is being heavily browsed. Red and jack pine regeneration is present on the most heavily scarified skid trails but overall is only a low amount. Residual ba/acre from 9 plots = 90 sq ft per acre. Allow the understory to continue to develop and manage for a mixed-age stand.																																																		
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11	42200 - Natural White Pine	Poletimber Well	25.0	37	111-140	N/A	Nice white pine poletimber stand with some larger supercanopy trees mixed in throughout. Stand was harvested by Kenneth Boughner in 1982 in the sale Conservancy Jack Pine, #53-022-82. All merchantable hardwoods as well as all jack pine with at least two sticks were cut. Gently rolling terrain. Trace of bigtooth aspen, paper birch, and black spruce in the overstory. Average ba/acre from 10 plots = 121 square feet.																																																																				
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12	42220 - Natural Jack Pine	Poletimber Well	4.7	37	81-110	N/A	Small jack pine stand of moderate quality. Diameters are still quite small in most places. Average ba/acre from 5 plots = 88 square feet. Stand was harvested by Kenneth Boughner in 1982 in the sale Conservancy Jack Pine, #53-022-82. All merchantable hardwoods as well as all jack pine with at least two sticks were cut. As a result, some of the larger jack pine in the stand are a little older than those that regenerated after the harvest.																																																																				
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13	42110 - Planted Red Pine	Sawtimber Well	3.5	89	111-140	N/A	Small stand of nice pine. It looks planted although we do not have any planting records for this area. This stand was likely included in the adjacent species removal harvest in stand #14 since basal areas tend to be somewhat variable. Average ba/acre from 4 plots = 118 square feet.																																																																				
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14	42200 - Natural White Pine	Sawtimber Medium	34.6	89	51-80	N/A	Large diameter overstory pine with a fully-stocked understory that ranges anywhere from mixed pine to red maple to spruce/fir. The regeneration is the result of a species removal harvest that took place in 1992 in the sale Pipeline South Pine (#53-004-91), bought by Georgia Pacific. Everything was cut except for red and white pine. As a result of this, the overstory residual is highly variable with basal areas ranging anywhere from 20 to 120. The average ba/acre from 9 plots = 64 square feet. The regeneration is free to grow except for areas of higher overstory BA. Pockets of wet ground are present, more so in the south half of the stand. A small 1-2 acre part in the northwest corner was burned in a spring 2012 wildfire. Most of the larger trees have survived that burn. Feature the understory as the canopy during the next re-inventory of the stand. Retain all supercanopy trees until the second age class is ready for a harvest.																																																																				
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15	42220 - Natural Jack Pine	Poletimber Well	16.1	37	81-110	N/A	Moderate quality jack pine stand. White pine poletimber is mostly low quality with a lot of weevil damage. A small amount of large diameter (20"+) white and red pine are mixed in throughout. Stand was harvested by Kenneth Boughner in 1982 in the sale Conservancy Jack Pine, #53-022-82. All merchantable hardwoods as well as all jack pine with at least two sticks were cut, the rest of the younger regeneration was not cut. As a result, some of the larger jack pine currently in the stand are a little older than those that regenerated after the harvest. Terrain is mostly flat. Trace of red maple, balsam poplar, and paper birch in the overstory. Average ba/acre from 10 plots = 90 square feet.																																										
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16	4139 - Aspen, Mixed Deciduous	Sawtimber Medium	3.9	72	51-80	N/A	Small mixed aspen/hardwood stand that sits on a hill and transitions down into the adjacent swamp conifer stand. Several areas of low stocking mixed in. A few steep slopes are present in the interior and southwest side of the stand. All of the oak are on the east edge near Deer Trail. Smaller aspen is present along the edges of the stand. An old road travels northwest near the swamp edge and through the entire stand. An old deer blind is near this road in the middle of the stand. Average ba/acre from 7 plots = 54 square feet. Commercial management is impractical due to the small acreage and isolated nature of the stand. A small open area at the south end is posted as a parking lot for members of the public who want to continue walking east along the locked-gate portion of Deer Trail to access additional state land. This part of Deer Trail is privately owned but there is an access agreement in place with the landowner.																																										
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17	42210 - Natural Red Pine	Sawtimber Well	2.6	96	111-140	N/A	High quality, large diameter pine. Stand must not have been included in the species removal harvest that took place in adjacent stand #14 since there are still some tree species other than pine present. Trace of tamarack. Average ba/acre from 5 plots = 134 square feet. No reason to manage on it's own, leave as is until surrounding stands are harvested again.																																										
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18	4130 - Aspen	Sapling Well	27.5	7	Immature	N/A	Stand cut in 2012 as part of the Gornick Mix timber sale, sale # 53-003-11-01, cut by Northern Timberlands, whole-tree chip job. A small portion of the NE part of this stand was burned in a wildfire in the spring of 2012. Stand has regenerated very well, almost purely aspen. Browse impacts limited except on the bigtooth which has been hit hard in a few areas. Far northern end, which was stand 16 in OI, has not regenerated quite as well, this end was mostly jack pine.																																										
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments									
19	320 - Upland Shrub	Nonstocked	5.7		Unspecified	No	North half of the stand is filling in with conifers. South half has most of the cherry and resembles more of a U stand. Apparently the stand was last treated in 1982 to maintain it as an opening.									
								Canopy Species	Density	Avg. Height	Size					
								White Pine	Medium	Variable	Sapling					
								Balsam Fir	Low	Variable	Sapling					
								Jack Pine	Low	Variable	Sapling					
								Balsam Fir	Low	>20 feet	Pole					
								White Pine	Low	>20 feet	Pole					
								Red Maple	Trace	Variable	Sapling					
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								Red Maple	Trace	>20 feet	Pole					
								Black Spruce	Trace	>20 feet	Pole					
Black Cherry	Medium	Variable	Tall Shrub													
20	310 - Herbaceous Openland	Nonstocked	1.3		Unspecified	No	Stand is filling in with pine.									
								Canopy Species	Density	Avg. Height	Size					
								White Pine	Medium	Variable	Sapling					
								Jack Pine	Medium	Variable	Sapling					
								Red Pine	Low	< 5 feet	Sapling					
								Red Pine	Trace	>20 feet	Pole					
								Black Cherry	Trace	Variable	Tall Shrub					
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21	429 - Mixed Upland Conifers	Poletimber Medium	3.2	56	81-110	N/A	Small stand of nice spruce/fir with some very large white pine mixed in. The north end is wet with thick lowland shrubs and hardly any tree cover. Trace of paper birch and red pine throughout. Average ba/acre from 5 plots = 82 square feet. A camping area has been developed in the middle of the stand among the massive white pine.									
								Canopy Species	% Cover	Size Class	DBH	Age	Canopy Species	Density	Avg. Height	Size
								Quaking Aspen	13	Log/Pole	11		Balsam Fir	Low	Variable	Sapling
								Red Maple	6	Pole/Log	8		Black Spruce	Low	Variable	Sapling
								White Pine	24	Log/XLog	17	102	White Pine	Low	Variable	Sapling
								Balsam Fir	26	Pole/Log	8		Red Maple	Low	Variable	Sapling
								Black Spruce	28	Pole/Log	8	56	Black Cherry	Medium	Variable	Tall Shrub
													Michigan Holly	Low	5 - 10 feet	Tall Shrub
													Tag Alder	Low	5 - 10 feet	Tall Shrub
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																						
22	42200 - Natural White Pine	Sawtimber Medium	8.8	69	51-80	N/A	Stand is a mix between poorly-stocked areas of open-grown white pine and more dense clumps where stem quality is much better. A couple of very large white pine are present. Trace of red pine. Average ba/acre from 9 plots = 69 square feet. Stand provides good wildlife value as a mix of open areas and dense cover.																																																						
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23	6120 - Lowland Cedar	Poletimber Poor	3.6	102	1-50	N/A	Very poor quality stand. Most of the cedar is either dead or dying and a lot has blown over. Heavy black ash understory but I'm not sure how much is alive. Trace of paper birch. Average ba/acre from 3 plots = 40 square feet.																																																						
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24	6220 - Alder/willow	Nonstocked	7.4		Unspecified	No	Thick wetland shrub stand. Areas of dead trees, more in the southern part of the stand. This stand looks like it is being flooded as there are beaver dams in two spots along the pipeline ROW which are blocking water flowage.																																																						
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25	4130 - Aspen	Sapling Poor	6.8	7	Immature	N/A	2012 - Stand cut as part of Gornick Mix timber sale, sale # 53-003-11-01, Northern Timberlands whole-tree chip job. Two small retention islands left. 2017 - Stand has not regenerated all that well yet. Some nice clones of aspen along the west edge but the remainder of the stand has barren areas that are now converting to grass/blueberry. A few clumps of red maple saplings were left. Small pockets of low ground intermixed throughout. Primary cut volume from this stand was spruce/fir/aspen. OPIC - FMD: 2009 LEAVE ONE CLUMP OF ABOUT .5 ACRES IN THE MIDDLE OF THE STAND FOR RETENTION.																																																						
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26	42340 - Upland Spruce/Fir	Poletimber Medium	7.3	58	51-80	N/A	Nice stand of mixed conifers although there are areas of lower stocking, particularly in the western half of the stand. It looks like both species of spruce are present. Ground is mostly dry except for some wet areas along the edges as well as a wet drainage in the narrow part of the eastern "finger" of the stand. The red maple understory is more common in the east half of the stand. A variety of white pine diameters are present, including some very large trees (30"+ DBH). Trace of red pine and balsam poplar. Average ba/acre from 7 plots = 64 square feet.																																																													
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27	6120 - Lowland Cedar	Poletimber Poor	65.9	102	51-80	N/A	Very wet, poor-quality stand with a thick understory of wetland shrubs. The cedar is small and appears stagnant in several places. Areas of better quality and bigger trees are limited to mostly the far northern end of the stand. Black ash used to be a component in some areas but is now all dead. Trace of white pine, quaking aspen, and balsam poplar. Average ba/acre from 9 plots = 71 square feet. A series of small upland islands, too small to be mapped, can be found in the central part of the stand.																																																													
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28	429 - Mixed Upland Conifers	Sapling Medium	22.3	27	Immature	N/A	Stand was harvested in 1991-92 in the sale Turn-Around Island, #53-003-91-01, bought by Dave Bunker and Sons. All species were cut and harvested volumes consisted of mostly mixed hardwood and softwood with a little white pine and cedar. The stand is about a 50/50 mix of upland and lowland with wetter ground becoming more common in the eastern half of the stand. Regeneration has come back moderately well to a wide mix of species. A lot of tamarack in the northeast area of the stand. The wet areas did not regenerate as well as others and have a thick shrub layer in many places. The majority of the aspen and red maple regen can be found closer to the ROW. Previous OI noted a high amount of deer and elk browse in the stand.																																																													
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29	42390 - Mixed Non-Pine Upland Conifers	Sawtimber Poor	3.8	80	1-50	N/A	Poorly-stocked stand that seems about a 50/50 split between upland and lowland. Difficult to tell with all of the snow on the ground. The southern 1/3rd of the stand is definitely wet as it has a thick understory of wetland shrubs. A few very large white pine are present. Average ba/acre from 3 plots = 37 square feet.																																																													
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
30	6121 - Tamarack	Poletimber Poor	13.4	68	1-50	N/A	Poorly-stocked, low quality stand with a thick understory of wetland shrubs. There is a vein of larger poletimber running through the middle of the stand but the remainder is dominated by small, barely merchantable stems. The cedar appears to be stagnant but I'm not sure if the spruce, fir, and tamarack are as well. There are some areas heavy to tamarack saplings. Average ba/acre from 3 plots = 40 square feet.			
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species		Density	Avg. Height	Size
Northern White Cedar		22	Pole/Sapling	5		Tamarack		Medium	Variable	Sapling
Black Spruce		25	Pole/Sapling	5		Black Spruce		Medium	Variable	Sapling
Tamarack		50	Pole/Sapling	5	68	Balsam Fir		Low	Variable	Sapling
						Michigan Holly		High	5 - 10 feet	Tall Shrub
						Tag Alder		Medium	5 - 10 feet	Tall Shrub
						Willow spp.		Trace	Variable	Tall Shrub
31	42200 - Natural White Pine	Sapling Medium	1.8	17	Immature	N/A		A few small open areas mixed in but otherwise there are patches of thick regeneration.		
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species			Density	Avg. Height
Jack Pine		10	Sapling	3		Black Cherry	Medium		Variable	Tall Shrub
Balsam Fir		10	Sapling	3						
White Spruce		9	Sapling/Pole	3						
White Pine		67	Sapling	3	17					
32	4311 - Pine, Aspen Mix	Sapling Medium	1.5	17	Immature	N/A	Stand was cut when the adjacent red pine stand to the east was thinned. A few residual red pine were left. Aspen regeneration is mostly in the middle of the stand. A few open areas with no regen are along the east edge.			
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species		Density	Avg. Height	Size
Red Pine		15	Log/XLog	14		Black Cherry		Medium	5 - 10 feet	Tall Shrub
Jack Pine		7	Sapling	2						
Balsam Fir		7	Sapling	2						
White Pine		25	Sapling	2						
Quaking Aspen		43	Sapling	2	17					
33	42290 - Natural Mixed Pine	Sapling Medium	2.6	17	Immature	N/A	Stand was cut when the adjacent red pine stand to the west was thinned in 2002. There used to be a clone of aspen regeneration in the middle of the stand but elk have wiped it all out. It is now filling in quite well with pine, although the edges of the stand are a little less well-stocked. A few red pine saplings here and there.			
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species		Density	Avg. Height	Size
Red Pine		10	Log/Pole	10		Black Cherry		Medium	Variable	Tall Shrub
White Pine		45	Sapling	2	17					
Jack Pine		40	Sapling	2						
34	4133 - Aspen, Mixed Pine	Sapling Well	27.2	27	Immature	N/A	Stand clearcut in 1992 as part of the sale McCourt's North and East, bought by Georgia Pacific. Stand regenerated very well to aspen. There are some also some nice patches of red and white pine regeneration in the heavily scarified skid trails and landings. Although rare, there are a few larger red and white pine that were left as residual. Trace of red oak regeneration.			
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species		Density	Avg. Height	Size
Quaking Aspen		10	Sapling	3		White Pine		Medium	Variable	Sapling
White Pine		12	Sapling/Pole	4		Red Pine		Low	Variable	Sapling
Red Pine		8	Sapling/Pole/Log	4		Black Cherry		Medium	Variable	Tall Shrub
Bigtooth Aspen		67	Sapling/Pole	4	27	Balsam Fir		Trace	Variable	Sapling
						Witch Hazel		Low	5 - 10 feet	Tall Shrub
35	42110 - Planted Red Pine	Sawtimber Well	0.8	89	201+	N/A	Dense stocking, variety of diameters. Was left as retention for adjacent sale to the east in Compartment 45. Average ba/acre from 2 plots = 235 square feet.			
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species		Density	Avg. Height	Size
Red Pine		89	Log/Pole/XLog	12	89	White Pine	Medium	Variable	Sapling	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																													
36	42290 - Natural Mixed Pine	Sawtimber Well	9.0	88	81-110	N/A	Red pine dominated stand that has quite a bit of variability in species composition. There is a small clone of younger aspen in the northern part of the stand. A thin strip of spruce/fir is present all along the western edge of the stand and starts to transition to wetter ground. Jack pine occurs in two clumps along the northern stand edge. There are also open areas in the middle and at the south end that are filled with mostly pine poletimber. As for the red pine itself, there appears to be two age classes. The older age class is of large diameter, natural origin red pine, some of which have old fire scars. The second age class is smaller log/pole size trees with quite a few suppressed poletimber trees that are underneath the older age class. Several legacy-size red and white pine trees are present. Trace of red oak. Average ba/acre from 11 plots = 110 square feet.																																													
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37	42110 - Planted Red Pine	Sawtimber Poor	9.6	89	1-50	N/A	Stand cut in 2016 as part of Compartment 44 Red Pine, #53-015-11-01, bought by Precision. Roundwood job and minimal scarification took place so I don't expect to see much red pine seed in here. As of now, most of the new regeneration coming in is red maple and aspen. It looks like quite a bit of browse has occurred although the seedlings are still small. Some of the larger residual pine appear to be of natural origin, similar to stand 36 to the west which has two ages of red pine. Average ba/acre from 4 plots = 35 square feet.																																													
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38	6220 - Alder/willow	Nonstocked	6.4		Unspecified	No	Very wet stand, standing water (ice) in places. Dense wetland shrub component. Quite a bit of tamarack has seeded in as well as some black spruce, this may qualify as a forested stand next entry. Most of the cedar is stagnant, except for those along the east upland edge. Did not visit all of this stand.																																													
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39	42290 - Natural Mixed Pine	Sawtimber Well	7.5	89	111-140	N/A	Nice pine stand although variable in stocking and composition. The west half of the stand sits on a ridge line that grades down to the adjacent swamp. There are a couple pockets of dense planted R9 but there is also an area of low stocking in the middle. The east half of the stand is mostly flat and has some wet ground in it, this is where most of the spruce/fir is located. There are some very large, legacy size white pine here. Trace of cedar, red oak, and tamarack. Average ba/acre from 8 plots = 119 square feet. Small, isolated stand that should be left as is until adjacent stands are managed.																																													
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40	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	347.3	102	111-140	N/A	Wet swamp-conifer stand of moderate to low quality trees. Diameters tend to be smaller in the north half with very wet ground and some areas of stunted trees. Quality and size increase somewhat in the south half with some areas not seeming quite as wet as the remainder of the stand. Some cedar decline noted. Trace of red maple and balsam poplar. Average ba/acre from 27 plots = 134 square feet. A decent size stream flows northeast across the pipeline ROW near the NW corner of the stand and runs parallel to the eastern line of stand 28. It is currently running across the ROW, there doesn't appear to be a culvert. Another stream meanders through the far southern portion of the stand. Wet ground throughout almost all of this stand makes a harvest impractical.																																													
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41	310 - Herbaceous Openland	Nonstocked	7.1	0	Unspecified	No	Pipeline ROW, becomes wet in the south half.																																													
42	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	74.8	102	111-140	N/A	Rather poor quality swamp conifer stand. Areas of small diameter, short trees, particularly in the east half of the stand. The southwest part of the stand increases in quality. Cedar decline noted in a few areas. Very wet throughout most of the stand. Average ba/acre from 9 plots = 126 square feet.																																													
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43	42200 - Natural White Pine	Sawtimber Medium	9.7	69	51-80	N/A	Moderate quality white pine stand with a variety of diameters present. There are some areas of nice poletimber/small sawlogs in the northern half of the stand. The southern half has more of the large diameter trees, including some massive white pine (30"+). Some areas of lower BA are present, mostly west of the road. Cedar is found closer to the stand edges. Trace of quaking aspen. Average ba/acre from 8 plots = 74 square feet. Wait until this stand matures before deciding on any management.																																													
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44	42200 - Natural White Pine	Sapling Well	4.7	17	Immature	N/A	Stand harvested in 2002 with adjacent stand #5 to the south as part of the Homestead Pine Block sale, bought by AJD. All species cut except for red pine and oak. This stand has a lot lower BA than the stand to the south and came back very well to white pine regeneration. Trace of red oak in the overstory.																																													
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45	42320 - Upland Spruce	Poletimber Medium	4.8	68	1-50	N/A	Stand of good quality black spruce. Stocking declines in the east and southeast portions of the stand as the ground becomes much wetter. The remainder of the stand is dry. Trace of red pine. Average ba/acre from 4 plots = 50 square feet.																																													
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
49	42290 - Natural Mixed Pine	Poletimber Well	5.5	37	51-80	N/A	Moderate quality mixed species stand. Some large diameter (20"+) white and red pine mixed in throughout. Fir most common in the south 1/2 of the stand. Stand was harvested by Kenneth Boughner in 1982 in the sale Conservancy Jack Pine, #53-022-82. All merchantable hardwoods as well as all jack pine with at least two sticks were cut. Terrain is flat and appears dry. Trace of red maple in the overstory. Average ba/acre from 7 plots = 109 square feet. Manage for white pine.		
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species	Density	Avg. Height	Size
Balsam Fir		17	Pole	6		White Pine	Low	Variable	Sapling
Jack Pine		27	Pole	7		Balsam Fir	Low	Variable	Sapling
White Pine		48	Pole/Sap/Log	7	37	Black Spruce	Trace	Variable	Sapling
						Black Cherry	Medium	Variable	Tall Shrub