



Compartment Review Presentation

Pigeon River Country Forest Management Unit

Compartment 53059

Entry Year 2023

Acreage: 2,534

County Montmorency

Management Area: Pigeon River Country

Revision Date: 2021-05-17

Stand Examiner: Greg Rekowski

Legal Description:

T32N R01E Sections 17, 18, 19, 20, 30, and 31

Identified Planning Goals:

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

Soil and topography:

Topography is mostly flat throughout the entire Compartment. Uplands are characterized by dry, sandy soils with Rubicon sands and Grayling sands being the two dominant soil types. Lowlands are primarily Tawas and Lupton mucks.

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

Solid block of State ownership. The entire eastern boundary of the Compartment borders private land. The privately-owned Walled Lake Lodge property, approximately 597 acres in Sections 30 and 31, was purchased by the State in 2019. A lodge and polebarn structure are still located on the property but will be removed in the near future. The remainder of the Compartment, north of the Walled Lake property, was also once under private ownership, known as the Blue Lakes Ranch.

Unique Natural Features:

An eagles nest has been identified near Walled Lake with another potential nest near Hardwood Creek to the north. Secretive locust is known to occur east of the Blue Lakes. Element occurrences of dry mesic northern forest, rich conifer swamp, and poor conifer swamp have been identified by MNFI staff in the general vicinity of Walled Lake.

Archeological, Historical, and Cultural Features:

An old logging camp, with foundations still evident, can be found in Section 30.

Special Management Designations or Considerations:

None identified.

Watershed and Fisheries Considerations:

Hardwood Creek flows east through Section 30, joining with the Black River. The Black River forms the eastern boundary for 2/3rds of this Compartment. North Blue Lake, South Blue Lake, Walled Lake, and Stewart Lake are all protected by special boating and fishing regulations. Town Corner Lake is located next to a State Forest Campground, and receives heavy recreational use.

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

No known potential exists for commercial metallic mineral production in this part of the state. The nearest active sand/gravel operation is over six miles away. There might be some potential for sand & gravel on the upland areas within the compartment. There are abandoned Antrim Shale gas wells just east of the compartment, and some producing wells just south. There is potential for Antrim Shale gas beneath the compartment and possibly oil from Guelph (Niagaran) reefs. The compartment has been explored for oil & gas in the past, and most test wells were dry holes. Parcels within the compartment with State mineral ownership are currently classified as Leasable Non-Development. There has been, and continues to be, potential drainage of State mineral resources at the southern edge of the compartment without compensation to the State. The State does not own most of the mineral rights within the compartment. Because the mineral estate is the dominant estate, reasonable access to the surface must be provided to private owners if they choose to explore or develop their mineral rights.

Vehicle Access:

Vehicle access is poor, as the majority of this Compartment is restricted to walk-in access only. The exceptions are an

access road to Walled Lake and open State forest roads in the vicinity of Town Corner Lake.

Survey Needs:

None needed.

Recreational Facilities and Opportunities:

Town Corner State Forest Campground is located in Section 31. A spur of the High Country Pathway leads through Section 31 to the campground. A parking area is present in Section 19, providing walk-in access to the Blue Lakes.

Fire Protection:

Fire risk is moderate to high in this Compartment due to the amount of young pine and dry, sandy soils. Numerous closed roads meander throughout the Compartment, however most are behind berms, and would require a bulldozer to remove.

Additional Compartment Information:

Deer and elk browse continue to be a major impediment to sustainable forestry in this Compartment. Many past clearcuts have failed to successfully regenerate due to persistent browse pressure and have now been converted to a non-forested condition.

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**

Report 1 – Total Acres by Cover Type and Age Class

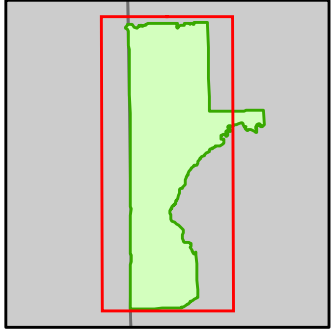


Age Class

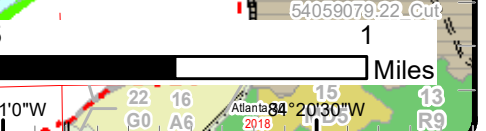
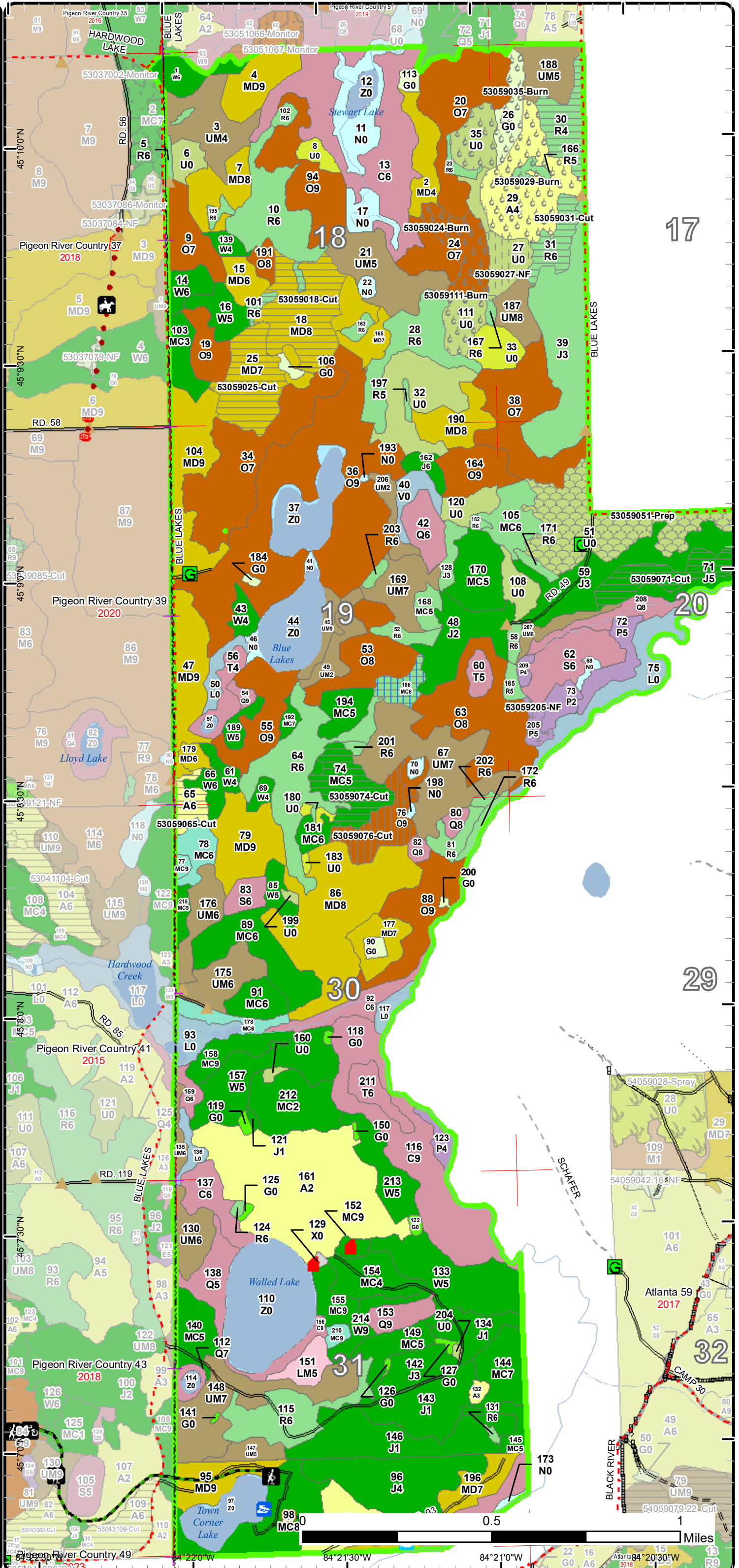
	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	0	81	33	17	7	0	0	0	0	0	0	0	0	0	0	0	0	137
Bog	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
Cedar	0	0	0	0	0	0	0	0	0	0	0	12	0	116	5	0	0	0	133
Cropland	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Herbaceous Openland	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16
Jack Pine	0	11	102	65	0	0	50	34	0	0	0	0	0	0	0	0	0	0	262
Low-Density Trees	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14
Lowland Aspen/Balsam Poplar	0	0	0	0	15	5	0	4	16	0	0	0	0	0	0	0	0	0	40
Lowland Conifers	0	0	0	0	0	2	0	12	20	3	14	12	0	0	0	0	0	0	62
Lowland Mixed Forest	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0	7
Lowland Shrub	42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	42
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	18	0	0	6	0	0	0	0	0	0	24
Marsh	33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	32
Mixed Upland Deciduous	0	0	0	3	0	0	7	0	29	77	62	66	0	0	0	0	0	55	299
Natural Mixed Pines	0	0	9	29	47	30	41	13	37	0	0	13	0	0	0	0	0	0	218
Oak	0	0	0	0	0	0	0	0	0	197	169	59	0	0	0	0	0	0	424
Planted Mixed Pines	0	0	0	0	13	4	0	6	0	0	0	0	0	0	0	0	0	0	23
Red Pine	0	0	0	0	35	10	94	31	0	0	0	0	0	0	0	0	0	0	170
Tamarack	0	0	0	0	0	0	8	0	0	8	4	0	0	0	0	0	0	0	20
Upland Conifers	0	0	0	0	0	8	0	0	0	0	2	2	0	0	0	0	0	7	19
Upland Mixed Forest	0	0	0	14	14	55	16	54	0	54	14	0	0	0	0	0	0	0	221
Upland Shrub	123	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	122
Urban	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Water	105	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	105
White Pine	0	0	0	12	38	67	0	0	0	0	0	0	0	0	0	0	0	17	134
Total	346	11	192	156	179	188	216	154	127	339	265	170	0	116	5	0	0	79	2537

Cover Type & Treatments Map

Compartment: 59
 T32N, R01E, Sec. 18, 19, 20, 30, 31
 County: Montmorency
 Unit: Pigeon River Country
 Mgmt Area: Pigeon River Country
 YOE: 2023
 Acres: 2534.1 GIS Calculated
 Examiner: Greg Rekowski
 Map Revised: 7/16/2021
 Map Phase: Review

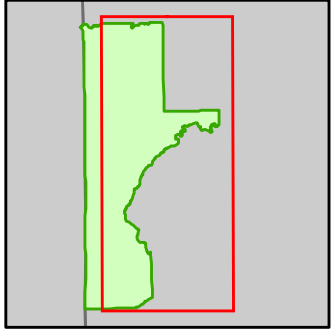


- Miris Corners
- Remonumented Section Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- County - Gravel Road
- Private - Dirt / Gravel Road
- Hiking Trails
- Bike Trails
- Horse Trails
- Ski Trails
- Designated Hiking Trails
- Designated Bicycle Trails
- Designated Equestrian Trails
- Designated Multi-Use Trails
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Cabin
- Berms
- Gate
- Boating Access Site
- Campground
- Fishing Access Site
- Sign
- Pipeline
- Compartment Boundary
- Other Treatment - See Comments
- Clearcut (w/Reserves)
- Prescribed Burn
- Seed Tree (w/Reserves)
- Shelter Wood (w/Reserves)
- Opening Maintenance
- Site Prep
- 412 - Oak Types
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 110 - Low Intensity Urban
- 211 - Cropland
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland

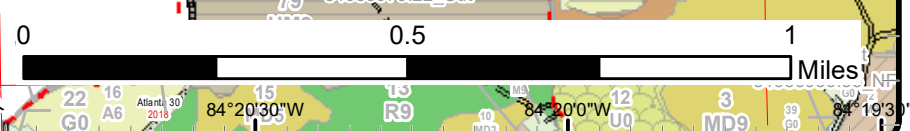
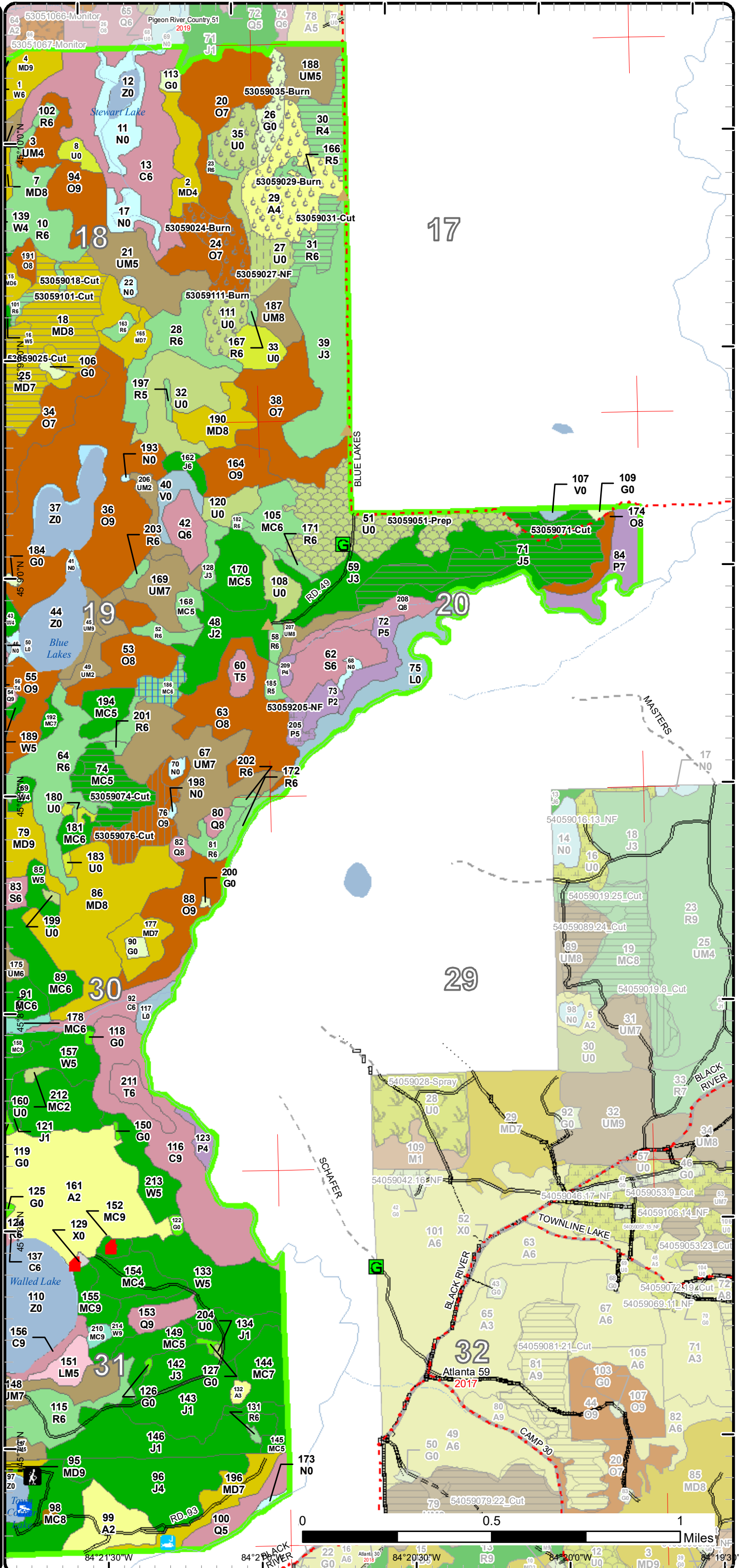


Cover Type & Treatments Map

Compartment: 59
 T32N, R01E, Sec. 18, 19, 20, 30, 31
 County: Montmorency
 Unit: Pigeon River Country
 Mgmt Area: Pigeon River Country
 YOE: 2023
 Acres: 2534.1 GIS Calculated
 Examiner: Greg Rekowski
 Map Revised: 7/16/2021
 Map Phase: Review

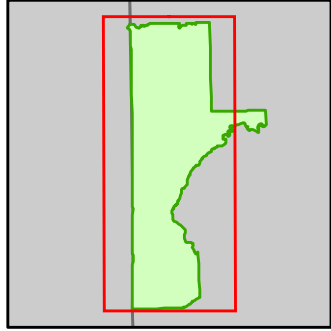


- Miris Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- County - Gravel Road
- Private - Dirt / Gravel Road
- Hiking Trails
- Bike Trails
- Ski Trails
- Designated Hiking Trails
- Designated Bicycle Trails
- Designated Multi-Use Trails
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Cabin
- Berms
- Gate
- Boating Access Site
- Campground
- Fishing Access Site
- Pipeline
- Compartment Boundary
- Other Treatment - See Comments
- Clearcut (w/Reserves)
- Prescribed Burn
- Seed Tree (w/Reserves)
- Shelter Wood (w/Reserves)
- Opening Maintenance
- Site Prep
- 412 - Oak Types
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 110 - Low Intensity Urban
- 211 - Cropland
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland

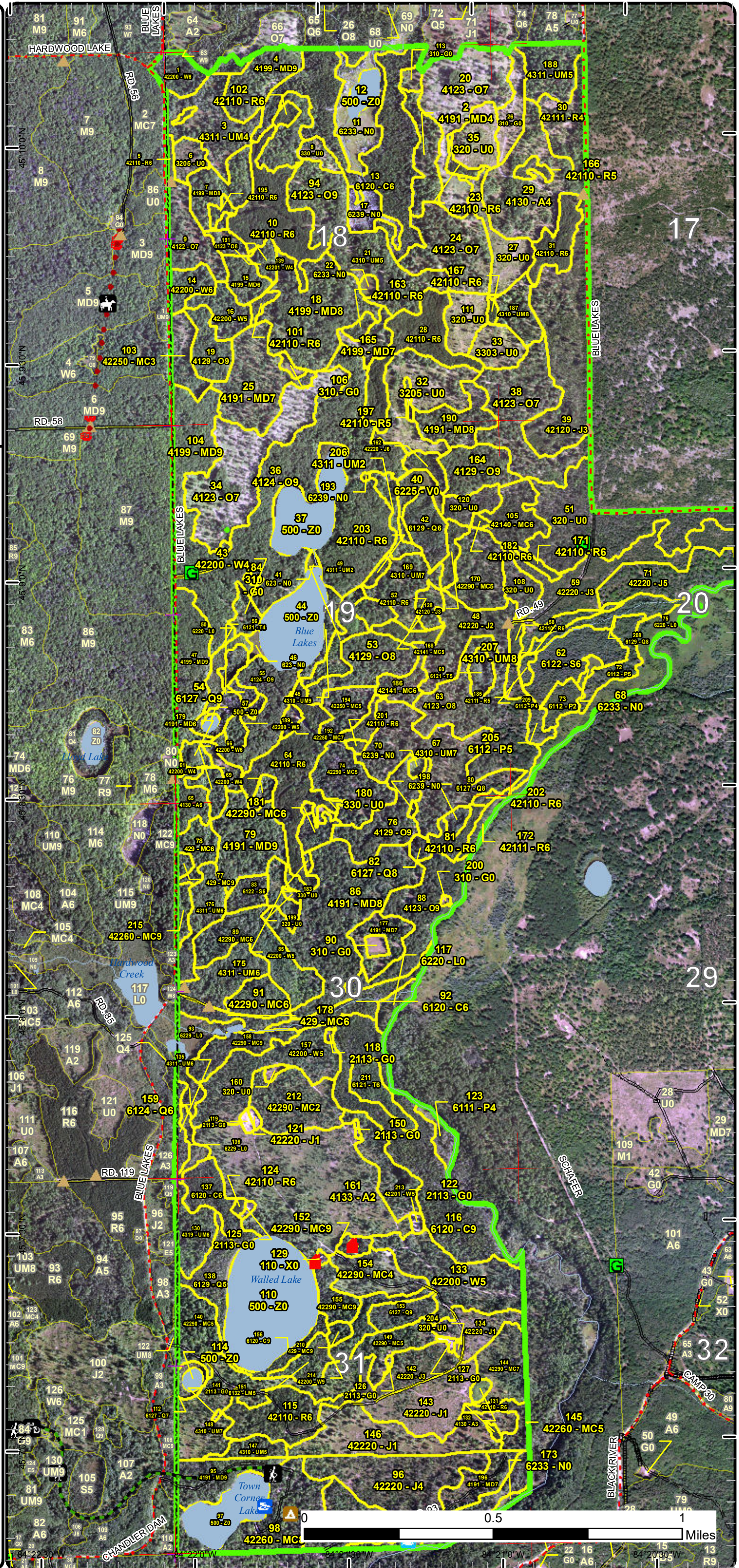


Stand Boundary Map

Compartment: 59
 T32N, R01E, Sec. 18, 19, 20, 30, 31
 County: Montmorency
 Unit: Pigeon River Country
 Mgmt Area: Pigeon River Country
 YOE: 2023
 Acres: 2534.1 GIS Calculated
 Examiner: Greg Rekowski
 Map Revised: 7/16/2021
 Map Phase: Review

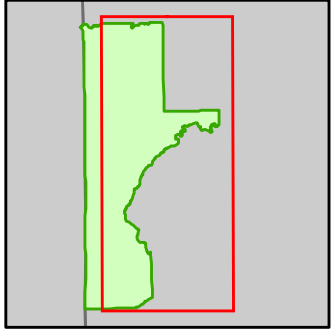


- Miris Corners
- Remonumented Section Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- County - Gravel Road
- Private - Dirt / Gravel Road
- Hiking Trails
- Bike Trails
- Horse Trails
- Ski Trails
- Designated Hiking Trails
- Designated Bicycle Trails
- Designated Equestrian Trails
- Designated Multi-Use Trails
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Cabin
- Berms
- Gate
- Boating Access Site
- Campground
- Fishing Access Site
- Sign
- Pipeline
- Compartment Boundary
- Stand Boundaries
- 412 - Oak Types
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 110 - Low Intensity Urban
- 211 - Cropland
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland

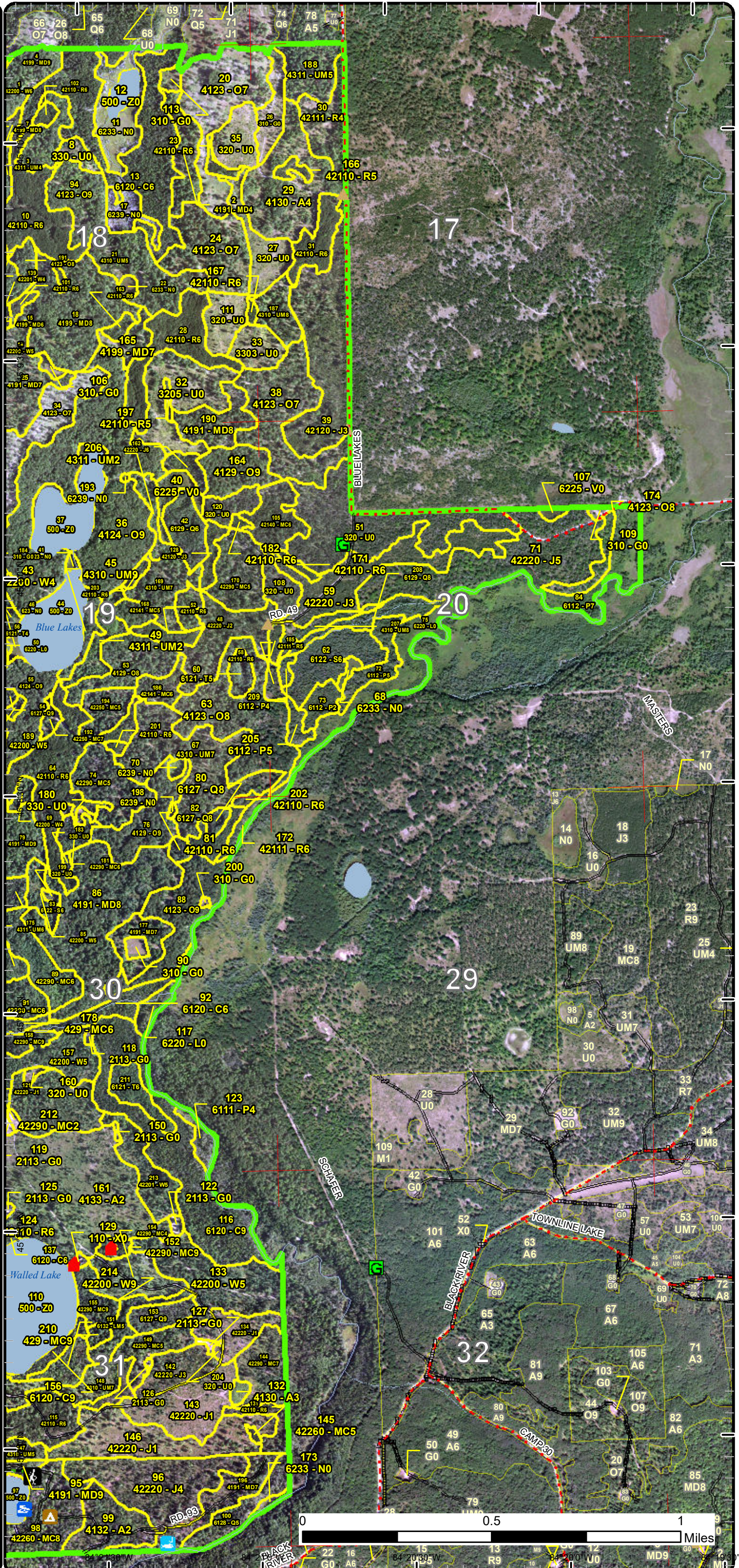


Stand Boundary Map

Compartment: 59
 T32N, R01E, Sec. 18, 19, 20, 30, 31
 County: Montmorency
 Unit: Pigeon River Country
 Mgmt Area: Pigeon River Country
 YOE: 2023
 Acres: 2534.1 GIS Calculated
 Examiner: Greg Rekowski
 Map Revised: 7/16/2021
 Map Phase: Review

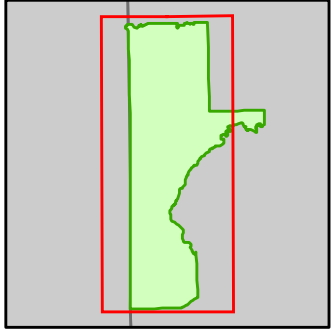


- Miris Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- County - Gravel Road
- Private - Dirt / Gravel Road
- Hiking Trails
- Bike Trails
- Ski Trails
- Designated Hiking Trails
- Designated Bicycle Trails
- Designated Multi-Use Trails
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Cabin
- Berms
- Gate
- Boating Access Site
- Campground
- Fishing Access Site
- Pipeline
- Compartment Boundary
- Stand Boundaries
- 412 - Oak Types
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 110 - Low Intensity Urban
- 211 - Cropland
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland

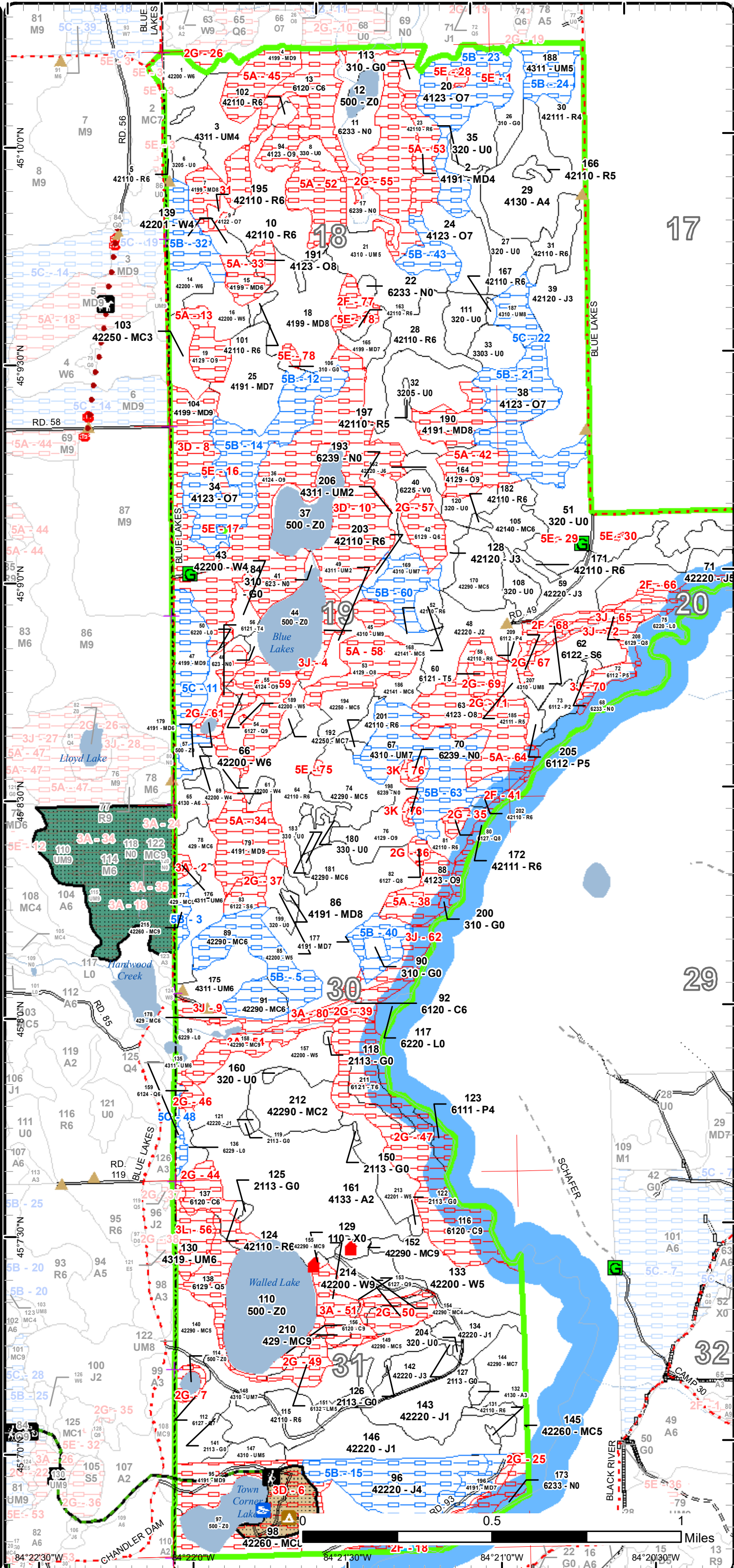


Special Conservation Areas

Compartment: 59
 T32N, R01E, Sec. 18, 19, 20, 30, 31
 County: Montmorency
 Unit: Pigeon River Country
 Mgmt Area: Pigeon River Country
 YOE: 2023
 Acres: 2534.1 GIS Calculated
 Examiner: Greg Rekowski
 Map Revised: 7/16/2021
 Map Phase: Review

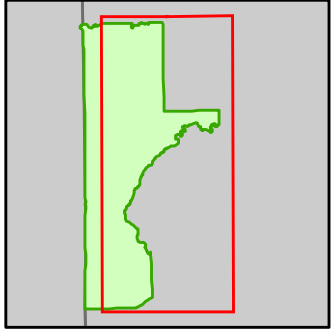


- Miris Corners
- + Remonumented Section Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- County - Gravel Road
- Private - Dirt / Gravel Road
- Hiking Trails
- Bike Trails
- Horse Trails
- Ski Trails
- Designated Hiking Trails
- - - Designated Bicycle Trails
- Designated Equestrian Trails
- Designated Multi-Use Trails
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Cabin
- Berms
- Gate
- Boating Access Site
- Campground
- Fishing Access Site
- Sign
- Pipeline
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 5B: Maintain for regeneration purposes
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 2F: Too steep
- 2G: Too wet (sensitive soils, does not include access issues)
- 3A: Conservation Values incompatible with harvest at this time
- 3D: Recreational / Scenic values
- 3J: Water quality / BMPs (stream, river, or lake)
- 3K: Rare or unique landforms
- 3L: Other wildlife concerns
- 5A: Not able to obtain desirable regeneration
- 5E: Long-Term Retention
- Stand Boundaries
- SCA
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer
- State Forest Campground
- Habitat Corridor

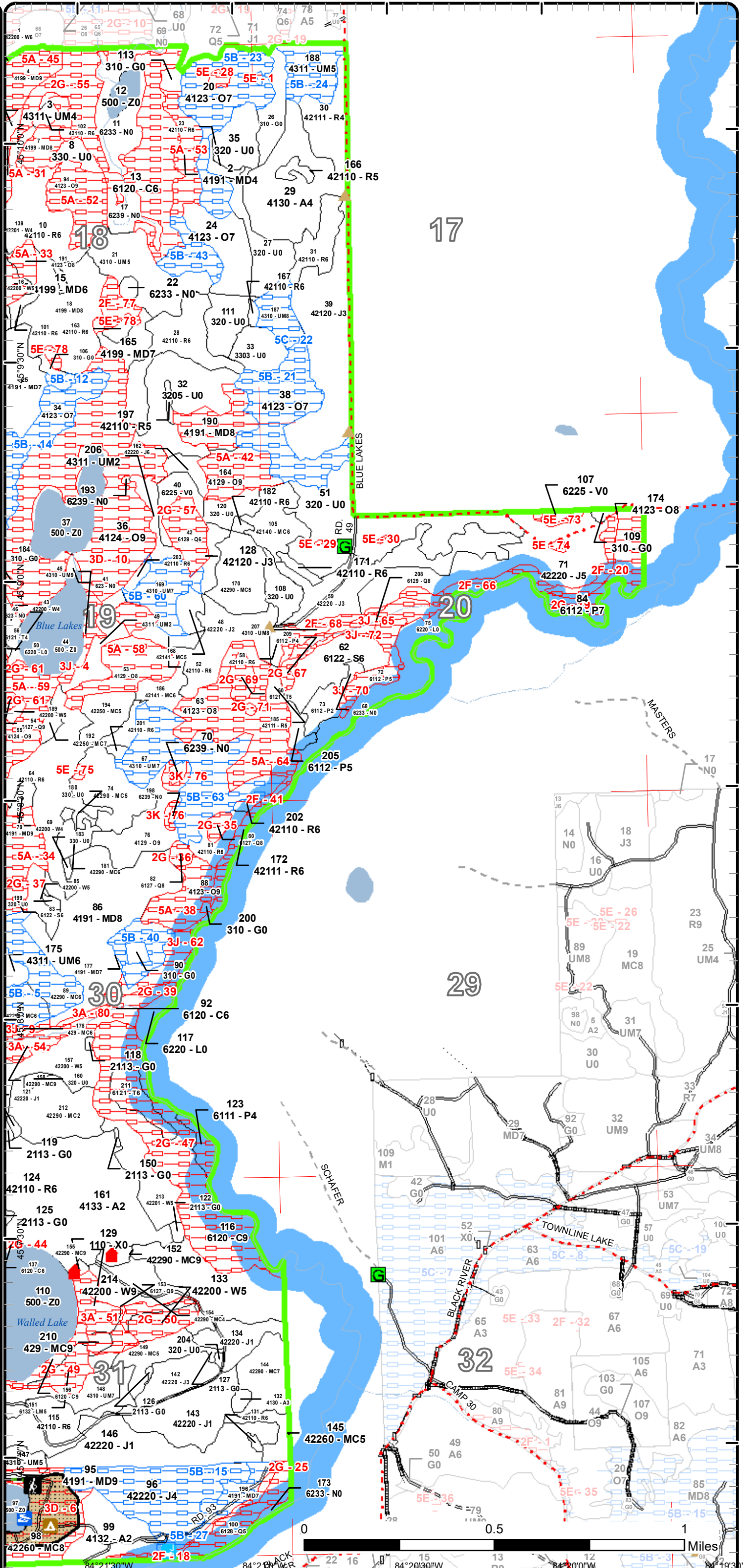


Special Conservation Areas

Compartment: 59
 T32N, R01E, Sec. 18, 19, 20, 30, 31
 County: Montmorency
 Unit: Pigeon River Country
 Mgmt Area: Pigeon River Country
 YOE: 2023
 Acres: 2534.1 GIS Calculated
 Examiner: Greg Rekowski
 Map Revised: 7/16/2021
 Map Phase: Review



- Miris Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- County - Gravel Road
- Private - Dirt / Gravel Road
- Hiking Trails
- Bike Trails
- Ski Trails
- Designated Hiking Trails
- Designated Bicycle Trails
- Designated Multi-Use Trails
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Cabin
- Berms
- Gate
- Boating Access Site
- Campground
- Fishing Access Site
- Pipeline
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 5B: Maintain for regeneration purposes
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 2F: Too steep
- 2G: Too wet (sensitive soils, does not include access issues)
- 3A: Conservation Values incompatible with harvest at this time
- 3D: Recreational / Scenic values
- 3J: Water quality / BMPs (stream, river, or lake)
- 3K: Rare or unique landforms
- 5A: Not able to obtain desirable regeneration
- 5E: Long-Term Retention
- Stand Boundaries
- SCA
- Cold Water Streams
- High Priority Trout Stream Buffer
- State Forest Campground



0 0.5 1 Miles



Report 2 – Treatment Summary

Acres of Harvest

Commercial Harvest - 164
 Harvests with Site Condition - 0
 Next Step Harvest - 0
 Habitat Cut - 0

Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Aspen	7	0	0	0	0	0	0	0	0	7
Jack Pine	39	0	0	0	0	0	0	0	0	39
Mixed Upland Deciduous	55	0	0	0	0	0	0	0	0	55
Natural Mixed Pines	17	0	0	0	0	0	0	0	0	17
Oak	0	0	0	0	15	0	0	0	0	15
Planted Mixed Pines	0	0	0	6	0	0	0	0	0	6
Red Pine	26	0	0	0	0	0	0	0	0	26
Total	144	0	0	6	15	0	0	0	0	165

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	165	44	0	0	79	0	0	0	13	301
Next Step	0	101	101	0	33	0	379	0	0	614
Total	165	145	101	0	113	0	379	0	13	914



Standard

Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
----------------	-------	-----------------	--------------	-----------	----------	----------------	------------------	----------------------	---------------	-------------

Proposed Treatments:

18	53059018-Cut	31.6	4199 - Other Mixed Upland Deciduous	Sawtimber Medium	81	51-80	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	No
-----------	---------------------	------	-------------------------------------	------------------	----	-------	---------	-------------------------	-------------------------	-----------	----

Prescription Clearcut but leave scattered groups of 2-5 oak trees. Focus leaving the largest diameter, best quality oak. Mark 1-2 of these clumps per acre. Include the small finger of red pine from stand 10 that extends south into this treatment. Exclude the steep slopes along the east side near the sinkhole. Add two areas of retention along the edge (already excluded and in site condition layer).

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

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

Other Comment: Require chipping, low stumps, and 2" spec. Trench and replant to red pine after harvest.

Site Condition

Proposed Start Date: 10/1 /2022

24	53059024-Burn	15.5	4123 - Red Oak	Sawtimber Poor	94	1-50	Burn	Understory	4199 - Other Mixed Upland Deciduous	Two-Aged	No
-----------	----------------------	------	----------------	----------------	----	------	------	------------	-------------------------------------	----------	----

Prescription Understory burn to try and stimulate oak regeneration.

Next Step Monitoring, Natural Regen (Intermediate)

Acceptable Regen:

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2022

25	53059025-Cut	23.4	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Poor	81	1-50	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	No
-----------	---------------------	------	--	----------------	----	------	---------	----------	-------------------------	-----------	----

Prescription Clearcut all species except leave 1-2 large diameter white oak per acre. No area retention. Add 2" spec and low stumps. Require chipping.

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

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

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2022



S
t
a
n
d

Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
29	53059029-Burn	34.8	4130 - Aspen	Poletimber Poor	27	1-50	Burn	Understory	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Burn to try and stimulate additional aspen regeneration or to convert to a non-forested condition. Group this burn with stand 30 to the east, after that stand has been cut, as well as stands 26 and 35 to the west.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Intermediate)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											
30	53059030-Cut	13.7	42111 - Planted Red Pine, Mixed Deciduous	Poletimber Poor	34	51-80	Harvest	Clearcut	4319 - Mixed Upland Forest	Even-Aged	No
<p><u>Prescription</u> Clearcut with no area retention. Retain all red and white oak. Burn after harvest. Require a roundwood harvest so that there is some slash on site to carry a burn.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Burn, Slash; Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Any mix of species will be acceptable in determining regeneration success. This stand is also being burned post-harvest so a non-forested condition will also be accepted.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											
31	53059031-Cut	10.2	42110 - Planted Red Pine	Poletimber Well	59	81-110	Harvest	Clearcut	4319 - Mixed Upland Forest	Even-Aged	No
<p><u>Prescription</u> Clearcut. Leave any oak if present. No area retention due to the small size of the stand. This stand will be burned after harvest along with the other stands in the adjacent area. Require a roundwood harvest and have slash evenly scattered throughout the sale area.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Burn, Slash</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Any mix of species will be acceptable after the burn. A non-forested condition will also be accepted.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											
35	53059035-Burn	19.4	320 - Upland Shrub	Nonstocked	0	Unspecified	Burn	Opening	310 - Herbaceous Openland		No
<p><u>Prescription</u> Burn to convert these stands to a G type. These used to be forested stands but will now be managed as non-forested stands. Make the burn intense enough to kill all of the scotch pine.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Prescribed Burn</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											



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	Habitat Cut
51	53059051-Prep	44.1	320 - Upland Shrub	Nonstocked	0	Unspecified	SitePrep	Roller Chopping	4222 - Natural Jack Pine	Even-Aged	No
<p><u>Prescription</u> Rollerchop to set back black cherry and then plant jack pine. <u>Specs:</u> <u>Next Step</u> SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr) <u>Treatments:</u> <u>Acceptable</u> Well-stocked stand that meets jack pine regeneration guidelines. <u>Regen:</u> <u>Other</u> 2021 regen survey results from 13 plots: jack pine 277 TPA (6" tall), black cherry 508 TPA (2.5' tall). <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2022</p>											
65	53059065-Cut	6.5	4130 - Aspen	Poletimber Well	44	111-140	Harvest	Clearcut	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Clearcut with no area retention. Leave all pine over 18" DBH. Do not cut any oak or hemlock. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Fully-stocked stand meeting aspen regeneration guidelines. <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2022</p>											
71	53059071-Cut	39.4	42220 - Natural Jack Pine	Poletimber Medium	52	51-80	Harvest	Clearcut with Retention	4222 - Natural Jack Pine	Even-Aged	No
<p><u>Prescription</u> Clearcut with retention. Do not cut red or white oak. Leave all red or white pine over 15" DBH. Exclude all steep slopes near the river, expect <u>Specs:</u> the treatment boundary to differ from what is shown.Desired retention areas are already in the site condition layer and include a buffer around the bog as well as a small area around a pocket of younger planted red pine. <u>Next Step</u> Monitoring, Natural Regen (Intermediate) <u>Treatments:</u> <u>Acceptable</u> Fully-stocked of jack pine with any additional mix of species being acceptable. If regeneration is not successful, interplant jack pine to achieve full stocking. <u>Regen:</u> <u>Other</u> Require chipping in snow-free months and encourage as much ground scarification as possible through logging operations. Add 2" spec <u>Comment:</u> to get all cherry knocked down. <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2022</p>											
74	53059074-Cut	17.2	42290 - Natural Mixed Pine	Poletimber Medium	55	51-80	Harvest	Clearcut with Retention	42290 - Natural Mixed Pine	Even-Aged	No
<p><u>Prescription</u> Clearcut. Leave a small retention area along the western edge in an area heavier to white pine (already excluded in the site conditions layer). <u>Specs:</u> Leave any red or white pine greater than 18" DBH. Leave all oak. Protect all snags and existing coarse woody debris. <u>Next Step</u> Monitoring, Natural Regen (Intermediate) <u>Treatments:</u> <u>Acceptable</u> Fully-stocked stand meeting mixed pine regeneration guidelines. If regeneration is unsuccessful, trench and replant to red pine. <u>Regen:</u> <u>Other</u> Require chipping of tops in snow-free conditions to encourage ground scarification. <u>Comment:</u> Add 2" spec to get all of the smaller regen knocked down. <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2022</p>											



Standard

Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
----------------	-------	-----------------	--------------	-----------	----------	----------------	------------------	----------------------	---------------	-------------

76	53059076-Cut	14.7	4129 - Mixed Oak	Sawtimber Well	83	81-110	Harvest	Shelterwood with Retention	4319 - Mixed Upland Forest	Two-Aged	No
-----------	---------------------	------	------------------	----------------	----	--------	---------	----------------------------	----------------------------	----------	----

Prescription Shelterwood, leaving 20-30 BA of the largest diameter, best quality oak and pine. Retention will be placed along the steep slopes which border the small sinkholes along the eastern side of the stand (already excluded and in the site conditions layer). Add 2" spec but add in a note to protect any red pine regen less than 5" DBH. Mark 1 poor form oak per acre as a cut and leave tree.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Regen: Fully-stocked stand of mixed pine and deciduous species. Oak regeneration is desired but doubtful due to the browse pressure.

Other Comment: Cut with adjacent stand 74 to the north and require chipping of tops in snow-free conditions to increase ground scarification.

Site Condition

Proposed Start Date: 10/1 /2022

101	53059101-Cut	1.8	42110 - Planted Red Pine	Poletimber Well	56	141-170	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	No
------------	---------------------	-----	--------------------------	-----------------	----	---------	---------	----------	-------------------------	-----------	----

Prescription Clearcut. Trench and replant to red pine. Group with adjacent stands 18 and 25. Require chipping, low stumps, 2" spec.

Specs:

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

Treatments:

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

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2022

111	53059111-Burn	9.7	320 - Upland Shrub	Nonstocked	0	Unspecified	Burn	Opening	310 - Herbaceous Openland		No
------------	----------------------	-----	--------------------	------------	---	-------------	------	---------	---------------------------	--	----

Prescription Burn. This used to be a forested stand but will now be managed as a non-forested stand.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2022

186	53059186-Cut	6.0	42141 - Planted Mixed Pine, Mixed Deciduous	Poletimber Well	60	81-110	Harvest	Seed Tree	4319 - Mixed Upland Forest	Even-Aged	No
------------	---------------------	-----	---	-----------------	----	--------	---------	-----------	----------------------------	-----------	----

Prescription Seed tree harvest. Leave 10 BA of red pine scattered throughout. If present, leave any white pine over 10" DBH. Leave all oak.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Regen: Fully-stocked consisting of a mix of pine and deciduous species.

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2022



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	Habitat Cut
205 53059205-NF	3.4	6112 - Lowland Aspen	Poletimber Medium	46	51-80	NonForestMgt	Other - Specify	6112 - Lowland Aspen	Even-Aged	No
<p><u>Prescription</u> This stand would be suitable for a Wildlife Habitat Grant project. Hand-fell all aspen and balsam poplar. Shear all alder. This ground may be able to support mechanized equipment to fell the trees.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 5/12/2021</p>										

Approved Treatments:

27 53059027-NF	9.2	320 - Upland Shrub	Nonstocked	0	Unspec ified	NonForestMgt	Brush Cutting	310 - Herbaceous Openland		No
<p><u>Prescription</u> Stand has been selected for shearing for woodcock habitat as part of the 2018 Wildlife Habitat Grant through Huron Pines. Stand was approved for treatment through the Chapter 7 variance procedure.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Burn, Opening</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2019</p>										

Total Treatment **300.6**
Acreage Proposed:

Report 4 – Site Conditions

Pigeon River Country Mgt. Unit

Compartment: 59

Greg Rekowski : Examiner

Year of Entry: 2023

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions											
		With Condition	Not Available		5B	5C	2F	2G	3A	3D	3J	3K	3L	5A	5E	
137	137	0	0	Aspen					0							
7	7	0	0	Bog												
133	0	0	133	Cedar				133								
5	5	0	0	Cropland												
16	16	0	0	Herbaceous Openland												
261	216	34	10	Jack Pine	34		8									2
14	14	0	0	Low-Density Trees												
40	9	0	31	Lowland Aspen/Balsam Poplar				22			9					
63	0	0	63	Lowland Conifers				54			9					
7	0	0	7	Lowland Mixed Forest				7								
42	42	0	0	Lowland Shrub						0						
23	16	0	7	Lowland Spruce/Fir				5			1					
33	33	0	0	Marsh												
297	117	43	137	Mixed Upland Deciduous	21	22	10		1	42					82	2
220	137	34	48	Natural Mixed Pines	34			1	18	29						1
426	31	128	267	Oak	128		6	0		102	11	3			141	4
23	23	0	0	Planted Mixed Pines												
168	165	0	4	Red Pine			4									
20	0	0	20	Tamarack				20								
18	8	0	10	Upland Conifers				0	3		7					
222	120	80	22	Upland Mixed Forest	67	13	5				5			11		
122	122	0	0	Upland Shrub												0
1	1	0	0	Urban												
105	105	0	0	Water												
132	125	1	6	White Pine		1		3	2							
2,534	1,450	320	764	Total Forested Acres	284	36	32	245	25	174	43	3	11	222		9
	57%	13%	30%	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	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Pigeon River Country Mgt. Unit

Compartment: 59

Greg Rekowski : Examiner

Year of Entry: 2023

2	Unavailable	3A: Conservation Values incompatible with harvest at this time	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
3	Available	5B: Maintain for regeneration purposes	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Stand serves as a buffer for South Blue Lake.							
5	Available	5B: Maintain for regeneration purposes	31	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	3D: Recreational / Scenic values	44	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments: Town Corner Campground, High Country Pathway, lake buffer.							
7	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Pigeon River Country Mgt. Unit

Compartment: 59

Greg Rekowski : Examiner

Year of Entry: 2023

8	Unavailable	3D: Recreational / Scenic values	28	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
9	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Buffer for Hardwood Creek.							
10	Unavailable	3D: Recreational / Scenic values	103	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	22	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Recently thinned.							
12	Available	5B: Maintain for regeneration purposes	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Exclude this area, primarily young red pine, from the harvest in stand 25.							
13	Unavailable	5A: Not able to obtain desirable regeneration	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Pigeon River Country Mgt. Unit

Compartment: 59

Greg Rekowski : Examiner

Year of Entry: 2023

14	Available	5B: Maintain for regeneration purposes	40	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
15	Available	5B: Maintain for regeneration purposes	34	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
16	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
17	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
18	Unavailable	2F: Too steep	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
19	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	16	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
20	Unavailable	2F: Too steep	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Pigeon River Country Mgt. Unit

Compartment: 59

Greg Rekowski : Examiner

Year of Entry: 2023

21	Available	5B: Maintain for regeneration purposes	34	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
22	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
23	Available	5B: Maintain for regeneration purposes	30	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
24	Available	5B: Maintain for regeneration purposes	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
25	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
26	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Pigeon River Country Mgt. Unit

Compartment: 59

Greg Rekowski : Examiner

Year of Entry: 2023

27	Available	5B: Maintain for regeneration purposes	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
28	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
29	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
30	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
31	Unavailable	5A: Not able to obtain desirable regeneration	14	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Browse pressure is too high in this area to recommend a regeneration harvest. Stands of similar composition in the surrounding area that were harvested in the past did not regenerate well.							
32	Available	5B: Maintain for regeneration purposes	15	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
33	Unavailable	5A: Not able to obtain desirable regeneration	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Pigeon River Country Mgt. Unit

Compartment: 59

Greg Rekowski : Examiner

Year of Entry: 2023

34	Unavailable	5A: Not able to obtain desirable regeneration	22	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Browse pressure is too high in this area to recommend a regeneration harvest.							
35	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
36	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
37	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
38	Unavailable	5A: Not able to obtain desirable regeneration	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Deer and elk browse are too high in this area to regenerate oak.							
39	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Pigeon River Country Mgt. Unit

Compartment: 59

Greg Rekowski : Examiner

Year of Entry: 2023

40	Available	5B: Maintain for regeneration purposes	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
41	Unavailable	2F: Too steep	4	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments:							
42	Unavailable	5A: Not able to obtain desirable regeneration	26	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Browse pressure is too high in this area to recommend a regeneration harvest. Stands of similar composition in the surrounding area that were harvested in the past did not regenerate well, look at stand 32 to the north.							
43	Available	5B: Maintain for regeneration purposes	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
44	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	24	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
45	Unavailable	5A: Not able to obtain desirable regeneration	15	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Browse pressure is too high in this area to recommend a regeneration harvest. Stands of similar composition in the surrounding area that were harvested in the past did not regenerate well, look at stand 66 to the north.							

Report 4 – Site Conditions

Pigeon River Country Mgt. Unit

Compartment: 59

Greg Rekowski : Examiner

Year of Entry: 2023

46	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
47	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	64	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
48	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Manage with stand 126 to the west in Comp 41 when that stand is cut.							
49	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
50	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	11	3A: Conservation Values incompatible with harvest at this time	Unspecified	Unspecified	Unspecified
Comments: Forested bog Proposed ERA for Natural Community EO (rough area; not exact boundary of EO)							
51	Unavailable	3A: Conservation Values incompatible with harvest at this time	12	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments: Hemlock and cedar mixed in with very large supercanopy white pine. Leave this stand unmanaged.							

Report 4 – Site Conditions

Pigeon River Country Mgt. Unit

Compartment: 59

Greg Rekowski : Examiner

Year of Entry: 2023

52	Unavailable	5A: Not able to obtain desirable regeneration	24	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Browse pressure is too high in this area to recommend a regeneration harvest. Stands of similar composition in the surrounding area that were harvested in the past did not regenerate well.							
53	Unavailable	5A: Not able to obtain desirable regeneration	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Browse pressure is too high in this area to recommend a regeneration harvest. Stands of similar composition in the surrounding area that were harvested in the past did not regenerate well.							
54	Unavailable	3A: Conservation Values incompatible with harvest at this time	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments: High quality natural pine stand, may qualify as Type 2 Old Growth.							
55	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	54	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments:							
56	Unavailable	3L: Other wildlife concerns	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Eagle nest at the south end of the stand.							
57	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Pigeon River Country Mgt. Unit

Compartment: 59

Greg Rekowski : Examiner

Year of Entry: 2023

58	Unavailable	5A: Not able to obtain desirable regeneration	21	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Deer and elk browse are too high in this area to regenerate oak.							
59	Unavailable	5A: Not able to obtain desirable regeneration	19	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Deer and elk browse are too high in this area to regenerate oak.							
60	Available	5B: Maintain for regeneration purposes	14	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
61	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
62	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Most of this part of stand 88 sits on slopes bordering the Black River. The north half of the site condition has slopes that are too steep for operations. The slopes at the south end of the site condition are not too steep for operating but the proximity to the river should discourage any harvesting.							
63	Available	5B: Maintain for regeneration purposes	40	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Pigeon River Country Mgt. Unit

Compartment: 59

Greg Rekowski : Examiner

Year of Entry: 2023

64	Unavailable	5A: Not able to obtain desirable regeneration	37	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Deer and elk browse are too high in this area to regenerate oak.							
65	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments: A stream flows through this stand.							
66	Unavailable	2F: Too steep	8	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments: Steep slopes bordering the Black River except for the southern end where the slopes are more gradual. Serves as a river buffer for adjacent harvest to the north.							
67	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
68	Unavailable	2F: Too steep	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Thin ridgeline that is not suitable for management.							
69	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Pigeon River Country Mgt. Unit

Compartment: 59

Greg Rekowski : Examiner

Year of Entry: 2023

70	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Being close to the Black River, cutting of this stand would create beaver issues. These are also organic soils and operability is questionable.							
71	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Wet sinkhole.							
72	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Buffer for small stream which is just outside the northern boundary of stand 62.							
73	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Buffer for bog.							
74	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
75	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
76	Unavailable	3K: Rare or unique landforms	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Slopes surrounding small sinkhole wetlands.							

Report 4 – Site Conditions

Pigeon River Country Mgt. Unit
Greg Rekowski : Examiner

Compartment: 59
Year of Entry: 2023

77	Unavailable	2F: Too steep	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
78	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
80	Unavailable	3A: Conservation Values incompatible with harvest at this time	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Proposed ERA for Natural Community EO (rough area; not exact boundary of EO)							



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
Town Corner Lake Campground	Concentrated Recreation Area	State Forest Campground	Error	15
Comments				



Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

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

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

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



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																													
1	42200 - Natural White Pine	Poletimber Well	9.6	43	81-110	N/A	Pine dominated stand with a wide range of diameters. There are some very large red and white pine scattered throughout (25"+ DBH). Most areas of the stand look like it had a partial harvest years ago. White pine regenerated well following that harvest and is now present in all size classes. A small pocket of mature aspen is present at the northwest corner. Some areas of wet ground along the north edge as the stand transitions to lowland. Average ba/acre from 5 plots = 84 square feet. Somewhat difficult stand to type out due to the multiple size classes. Could either call a W6 like it is now or a W7 featuring the supercanopy with a full understory of white pine poletimber and saplings.																																																													
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>White Pine</td> <td>64</td> <td>Pole/Log/XLog</td> <td>8</td> <td>43</td> </tr> <tr> <td>Red Pine</td> <td>15</td> <td>Log/XLog</td> <td>16</td> <td>102</td> </tr> <tr> <td>Quaking Aspen</td> <td>13</td> <td>Pole/Log</td> <td>8</td> <td></td> </tr> <tr> <td>Red Maple</td> <td>4</td> <td>Pole/Log</td> <td>8</td> <td></td> </tr> <tr> <td>Black Spruce</td> <td>2</td> <td>Pole/Log</td> <td>8</td> <td></td> </tr> <tr> <td>Jack Pine</td> <td>2</td> <td>Log</td> <td>10</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age		White Pine	64	Pole/Log/XLog	8	43	Red Pine	15	Log/XLog	16	102	Quaking Aspen	13	Pole/Log	8		Red Maple	4	Pole/Log	8		Black Spruce	2	Pole/Log	8		Jack Pine	2	Log	10		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>White Pine</td> <td>Full</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Red Maple</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Black Spruce</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Balsam Fir</td> <td>Trace</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Red Pine</td> <td>Trace</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Black Cherry</td> <td>Low</td> <td>5 - 10 feet</td> <td>Tall Shrub</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	White Pine	Full	Variable	Sapling	Red Maple	Low	Variable	Sapling	Black Spruce	Low	Variable	Sapling	Balsam Fir	Trace	Variable	Sapling	Red Pine	Trace	Variable	Sapling	Black Cherry	Low	5 - 10 feet	Tall Shrub	
Canopy Species	% Cover	Size Class	DBH	Age																																																																
White Pine	64	Pole/Log/XLog	8	43																																																																
Red Pine	15	Log/XLog	16	102																																																																
Quaking Aspen	13	Pole/Log	8																																																																	
Red Maple	4	Pole/Log	8																																																																	
Black Spruce	2	Pole/Log	8																																																																	
Jack Pine	2	Log	10																																																																	
Sub-Canopy Species	Density	Avg. Height	Size																																																																	
White Pine	Full	Variable	Sapling																																																																	
Red Maple	Low	Variable	Sapling																																																																	
Black Spruce	Low	Variable	Sapling																																																																	
Balsam Fir	Trace	Variable	Sapling																																																																	
Red Pine	Trace	Variable	Sapling																																																																	
Black Cherry	Low	5 - 10 feet	Tall Shrub																																																																	
2	4191 - Mixed Upland Deciduous with Conifer	Poletimber Poor	11.8	94	51-80	N/A	Variable stand, poorly-stocked in many places. The south end of the stand has a lot of white pine along with a small clone of younger quaking aspen. The north half of the stand is dominated by scattered oak and red maple. Some of the oak are large diameter (20"+ DBH). A few clumps of mature natural red pine are scattered throughout and there is a small clump of younger planted red pine (4-6" DBH) at the far northern end of the stand. Average ba/acre from 7 plots = 69 square feet. Not sure of the harvest history since this area was once under private ownership but I'm guessing it had a partial harvest long ago and failed to regenerate due to browse. Most of the stand slopes down to the west. Old pine stumps common throughout.																																																													
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Red Maple</td> <td>33</td> <td>Pole/Log</td> <td>8</td> <td>94</td> </tr> <tr> <td>Red Oak</td> <td>27</td> <td>Log/XLog</td> <td>15</td> <td></td> </tr> <tr> <td>White Oak</td> <td>5</td> <td>Log/XLog</td> <td>15</td> <td></td> </tr> <tr> <td>Bigtooth Aspen</td> <td>4</td> <td>Log</td> <td>13</td> <td></td> </tr> <tr> <td>White Pine</td> <td>17</td> <td>Pole/Log</td> <td>8</td> <td></td> </tr> <tr> <td>Red Pine</td> <td>6</td> <td>Log/Pole/XLog</td> <td>12</td> <td></td> </tr> <tr> <td>Balsam Fir</td> <td>1</td> <td>Pole</td> <td>6</td> <td></td> </tr> <tr> <td>Black Spruce</td> <td>2</td> <td>Pole/Sapling</td> <td>5</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age		Red Maple	33	Pole/Log	8	94	Red Oak	27	Log/XLog	15		White Oak	5	Log/XLog	15		Bigtooth Aspen	4	Log	13		White Pine	17	Pole/Log	8		Red Pine	6	Log/Pole/XLog	12		Balsam Fir	1	Pole	6		Black Spruce	2	Pole/Sapling	5																						
Canopy Species	% Cover	Size Class	DBH	Age																																																																
Red Maple	33	Pole/Log	8	94																																																																
Red Oak	27	Log/XLog	15																																																																	
White Oak	5	Log/XLog	15																																																																	
Bigtooth Aspen	4	Log	13																																																																	
White Pine	17	Pole/Log	8																																																																	
Red Pine	6	Log/Pole/XLog	12																																																																	
Balsam Fir	1	Pole	6																																																																	
Black Spruce	2	Pole/Sapling	5																																																																	
3	4311 - Pine, Aspen Mix	Poletimber Poor	21.1	43	51-80	N/A	Very low quality, poorly-stocked stand. Open grown, bushy white pine is most prevalent with some scattered patches of poor quality, decadent aspen. A few areas of small diameter, planted red pine are adjacent to the road, the rest of the red pine is larger diameter and most common in the middle part of the stand. Non-forested areas with a lot of cherry are mixed in throughout. Average ba/acre from 7 plots = 59 square feet. Not sure of the harvest history of this stand as this area used to be under private ownership. It was likely an old clearcut which largely failed to regenerate and this is what we're left with. Manage for the white pine I guess? It should continue to fill in over the years. Browse pressure is too high in the area to manage for aspen.																																																													
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Red Maple</td> <td>6</td> <td>Pole/Log</td> <td>8</td> <td></td> </tr> <tr> <td>Bigtooth Aspen</td> <td>7</td> <td>Log/Pole</td> <td>10</td> <td></td> </tr> <tr> <td>White Pine</td> <td>35</td> <td>Pole/Sap/Log</td> <td>5</td> <td>43</td> </tr> <tr> <td>Red Pine</td> <td>18</td> <td>Log/XLog</td> <td>15</td> <td>93</td> </tr> <tr> <td>White Oak</td> <td>2</td> <td>Log/XLog</td> <td>15</td> <td></td> </tr> <tr> <td>Red Oak</td> <td>2</td> <td>Log/XLog</td> <td>16</td> <td></td> </tr> <tr> <td>Quaking Aspen</td> <td>30</td> <td>Pole/Log</td> <td>8</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age		Red Maple	6	Pole/Log	8		Bigtooth Aspen	7	Log/Pole	10		White Pine	35	Pole/Sap/Log	5	43	Red Pine	18	Log/XLog	15	93	White Oak	2	Log/XLog	15		Red Oak	2	Log/XLog	16		Quaking Aspen	30	Pole/Log	8		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>White Pine</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Red Maple</td> <td>Low</td> <td>10 - 20 feet</td> <td>Sapling</td> </tr> <tr> <td>Black Cherry</td> <td>High</td> <td>Variable</td> <td>Tall Shrub</td> </tr> <tr> <td>Red Pine</td> <td>Trace</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>White Oak</td> <td>Trace</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	White Pine	Medium	Variable	Sapling	Red Maple	Low	10 - 20 feet	Sapling	Black Cherry	High	Variable	Tall Shrub	Red Pine	Trace	Variable	Sapling	White Oak	Trace	5 - 10 feet	Sapling
Canopy Species	% Cover	Size Class	DBH	Age																																																																
Red Maple	6	Pole/Log	8																																																																	
Bigtooth Aspen	7	Log/Pole	10																																																																	
White Pine	35	Pole/Sap/Log	5	43																																																																
Red Pine	18	Log/XLog	15	93																																																																
White Oak	2	Log/XLog	15																																																																	
Red Oak	2	Log/XLog	16																																																																	
Quaking Aspen	30	Pole/Log	8																																																																	
Sub-Canopy Species	Density	Avg. Height	Size																																																																	
White Pine	Medium	Variable	Sapling																																																																	
Red Maple	Low	10 - 20 feet	Sapling																																																																	
Black Cherry	High	Variable	Tall Shrub																																																																	
Red Pine	Trace	Variable	Sapling																																																																	
White Oak	Trace	5 - 10 feet	Sapling																																																																	
4	4199 - Other Mixed Upland Deciduous	Sawtimber Well	14.9	107	51-80	N/A	Moderate quality stand dominated by oak. Some large diameter trees, mostly oak and pine, are present. Pine becomes more abundant in the north half of the stand. Most of the stand sits on a ridgetop, with downward slopes along the east and west edges. Average ba/acre from 5 plots = 76 square feet. No regeneration harvest is possible here due to the high browse pressure from deer and elk. Look at stand 66 to the north for what happens when you clearcut oak in this area.																																																													
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Red Maple</td> <td>30</td> <td>Pole</td> <td>8</td> <td></td> </tr> <tr> <td>Red Oak</td> <td>45</td> <td>Log/XLog</td> <td>15</td> <td>107</td> </tr> <tr> <td>Bigtooth Aspen</td> <td>7</td> <td>Log</td> <td>11</td> <td></td> </tr> <tr> <td>Red Pine</td> <td>7</td> <td>Log/Pole</td> <td>13</td> <td></td> </tr> <tr> <td>White Pine</td> <td>4</td> <td>Log/Pole/XLog</td> <td>14</td> <td></td> </tr> <tr> <td>White Oak</td> <td>7</td> <td>Log/XLog</td> <td>15</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age		Red Maple	30	Pole	8		Red Oak	45	Log/XLog	15	107	Bigtooth Aspen	7	Log	11		Red Pine	7	Log/Pole	13		White Pine	4	Log/Pole/XLog	14		White Oak	7	Log/XLog	15		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Red Maple</td> <td>Trace</td> <td>>20 feet</td> <td>Sapling</td> </tr> <tr> <td>White Pine</td> <td>High</td> <td>Variable</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Red Maple	Trace	>20 feet	Sapling	White Pine	High	Variable	Sapling																	
Canopy Species	% Cover	Size Class	DBH	Age																																																																
Red Maple	30	Pole	8																																																																	
Red Oak	45	Log/XLog	15	107																																																																
Bigtooth Aspen	7	Log	11																																																																	
Red Pine	7	Log/Pole	13																																																																	
White Pine	4	Log/Pole/XLog	14																																																																	
White Oak	7	Log/XLog	15																																																																	
Sub-Canopy Species	Density	Avg. Height	Size																																																																	
Red Maple	Trace	>20 feet	Sapling																																																																	
White Pine	High	Variable	Sapling																																																																	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																
5	42110 - Planted Red Pine	Poletimber Well	2.1	37	141-170	N/A	Small red pine plantations. Areas with nice white oak regeneration in the understory of the southern stand. The northern stand doesn't have much regeneration in the understory. Trace amounts of red oak and bigtooth aspen sawtimber trees along the road edge. South tip of the southern stand is mostly white pine. Average ba/acre from 4 plots = 167 square feet.																																																
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>White Pine</td> <td>10</td> <td>Pole/Log</td> <td>8</td> <td></td> </tr> <tr> <td>Red Pine</td> <td>86</td> <td>Pole/Log</td> <td>8</td> <td>37</td> </tr> <tr> <td>Red Maple</td> <td>2</td> <td>Pole/Sapling</td> <td>5</td> <td></td> </tr> <tr> <td>Bigtooth Aspen</td> <td>1</td> <td>Pole</td> <td>5</td> <td></td> </tr> <tr> <td>Red Oak</td> <td>1</td> <td>Log</td> <td>16</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age		White Pine	10	Pole/Log	8		Red Pine	86	Pole/Log	8	37	Red Maple	2	Pole/Sapling	5		Bigtooth Aspen	1	Pole	5		Red Oak	1	Log	16		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>White Oak</td> <td>Medium</td> <td>10 - 20 feet</td> <td>Sapling</td> </tr> <tr> <td>Red Maple</td> <td>Low</td> <td>>20 feet</td> <td>Sapling</td> </tr> <tr> <td>Red Oak</td> <td>Trace</td> <td>Variable</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	White Oak	Medium	10 - 20 feet	Sapling	Red Maple	Low	>20 feet	Sapling	Red Oak	Trace	Variable	Sapling					
Canopy Species	% Cover	Size Class	DBH	Age																																																			
White Pine	10	Pole/Log	8																																																				
Red Pine	86	Pole/Log	8	37																																																			
Red Maple	2	Pole/Sapling	5																																																				
Bigtooth Aspen	1	Pole	5																																																				
Red Oak	1	Log	16																																																				
Sub-Canopy Species	Density	Avg. Height	Size																																																				
White Oak	Medium	10 - 20 feet	Sapling																																																				
Red Maple	Low	>20 feet	Sapling																																																				
Red Oak	Trace	Variable	Sapling																																																				
6	3205 - Mixed Upland Shrub	Nonstocked	5.0		Unspecified	No	No sale records exist but this is likely failed regeneration from a harvest when this area was under private ownership. It is mostly a U stand now with a lot of cherry in the interior of the stand. That being said, there is a considerable amount of white oak regeneration that made it past the browse level, mostly along the western edge of the stand. It may be enough to one day call this an O4 stand.																																																
		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>White Oak</td> <td>Medium</td> <td>>20 feet</td> <td>Sapling</td> </tr> <tr> <td>White Pine</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>White Pine</td> <td>Trace</td> <td>>20 feet</td> <td>Pole</td> </tr> <tr> <td>Jack Pine</td> <td>Trace</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Red Pine</td> <td>Trace</td> <td>>20 feet</td> <td>Pole</td> </tr> <tr> <td>Black Cherry</td> <td>High</td> <td>Variable</td> <td>Tall Shrub</td> </tr> <tr> <td>Sweet Fern</td> <td>High</td> <td>< 5 feet</td> <td>Tall Shrub</td> </tr> <tr> <td>Autumn Olive</td> <td>Trace</td> <td>5 - 10 feet</td> <td>Tall Shrub</td> </tr> <tr> <td>Red Maple</td> <td>Trace</td> <td>>20 feet</td> <td>Pole</td> </tr> <tr> <td>Red Maple</td> <td>Trace</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Red Oak</td> <td>Trace</td> <td>>20 feet</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height		Size	White Oak	Medium	>20 feet	Sapling	White Pine	Low	Variable	Sapling	White Pine	Trace	>20 feet	Pole	Jack Pine	Trace	Variable	Sapling	Red Pine	Trace	>20 feet	Pole	Black Cherry	High	Variable	Tall Shrub	Sweet Fern	High	< 5 feet	Tall Shrub	Autumn Olive	Trace	5 - 10 feet	Tall Shrub	Red Maple	Trace	>20 feet	Pole	Red Maple	Trace	Variable	Sapling	Red Oak	Trace	>20 feet	Sapling			
Sub-Canopy Species	Density	Avg. Height	Size																																																				
White Oak	Medium	>20 feet	Sapling																																																				
White Pine	Low	Variable	Sapling																																																				
White Pine	Trace	>20 feet	Pole																																																				
Jack Pine	Trace	Variable	Sapling																																																				
Red Pine	Trace	>20 feet	Pole																																																				
Black Cherry	High	Variable	Tall Shrub																																																				
Sweet Fern	High	< 5 feet	Tall Shrub																																																				
Autumn Olive	Trace	5 - 10 feet	Tall Shrub																																																				
Red Maple	Trace	>20 feet	Pole																																																				
Red Maple	Trace	Variable	Sapling																																																				
Red Oak	Trace	>20 feet	Sapling																																																				
7	4199 - Other Mixed Upland Deciduous	Sawtimber Medium	13.5	85	51-80	N/A	Variable mixed species stand. Quality is best north of the closed road. Stocking decreases along the edges and south of the closed road, as does stem quality. A small pocket of planted red pine is present at the northwest side of the stand. Average ba/acre from 6 plots = 70 square feet. Browse pressure is too high in this area to recommend a regeneration harvest. Stands of similar composition in the surrounding area that were harvested in the past did not regenerate well.																																																
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Red Maple</td> <td>33</td> <td>Pole/Log</td> <td>8</td> <td>85</td> </tr> <tr> <td>Bigtooth Aspen</td> <td>22</td> <td>Log</td> <td>13</td> <td></td> </tr> <tr> <td>White Pine</td> <td>9</td> <td>Pole/Log</td> <td>8</td> <td></td> </tr> <tr> <td>Red Pine</td> <td>3</td> <td>Pole/Sapling</td> <td>5</td> <td></td> </tr> <tr> <td>White Oak</td> <td>8</td> <td>Log/XLog</td> <td>14</td> <td></td> </tr> <tr> <td>Red Oak</td> <td>25</td> <td>Log/XLog</td> <td>15</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age		Red Maple	33	Pole/Log	8	85	Bigtooth Aspen	22	Log	13		White Pine	9	Pole/Log	8		Red Pine	3	Pole/Sapling	5		White Oak	8	Log/XLog	14		Red Oak	25	Log/XLog	15		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>White Pine</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Red Maple</td> <td>Low</td> <td>10 - 20 feet</td> <td>Sapling</td> </tr> <tr> <td>Black Cherry</td> <td>Low</td> <td>Variable</td> <td>Tall Shrub</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	White Pine	Medium	Variable	Sapling	Red Maple	Low	10 - 20 feet	Sapling	Black Cherry	Low	Variable	Tall Shrub
Canopy Species	% Cover	Size Class	DBH	Age																																																			
Red Maple	33	Pole/Log	8	85																																																			
Bigtooth Aspen	22	Log	13																																																				
White Pine	9	Pole/Log	8																																																				
Red Pine	3	Pole/Sapling	5																																																				
White Oak	8	Log/XLog	14																																																				
Red Oak	25	Log/XLog	15																																																				
Sub-Canopy Species	Density	Avg. Height	Size																																																				
White Pine	Medium	Variable	Sapling																																																				
Red Maple	Low	10 - 20 feet	Sapling																																																				
Black Cherry	Low	Variable	Tall Shrub																																																				
8	330 - Low-Density Trees	Nonstocked	3.6		Unspecified	No	This stand was clearcut in 1994 in the sale Panting Bull Aspen (#53-009-93), bought by Georgia Pacific. Browse eliminated most regeneration. A few red maple stump sprouts have made it. White pine regeneration is mostly in the north half of the stand. The majority of the stand sits on a east/northeast downward slope.																																																
		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Red Maple</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>White Pine</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>White Pine</td> <td>Low</td> <td>Variable</td> <td>Pole</td> </tr> <tr> <td>White Pine</td> <td>Trace</td> <td>>20 feet</td> <td>Log</td> </tr> <tr> <td>Red Pine</td> <td>Trace</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Red Pine</td> <td>Trace</td> <td>>20 feet</td> <td>Pole</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height		Size	Red Maple	Medium	Variable	Sapling	White Pine	Medium	Variable	Sapling	White Pine	Low	Variable	Pole	White Pine	Trace	>20 feet	Log	Red Pine	Trace	Variable	Sapling	Red Pine	Trace	>20 feet	Pole																							
Sub-Canopy Species	Density	Avg. Height	Size																																																				
Red Maple	Medium	Variable	Sapling																																																				
White Pine	Medium	Variable	Sapling																																																				
White Pine	Low	Variable	Pole																																																				
White Pine	Trace	>20 feet	Log																																																				
Red Pine	Trace	Variable	Sapling																																																				
Red Pine	Trace	>20 feet	Pole																																																				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																						
9	4122 - Oak, Pine	Sawtimber Poor	14.5	85	1-50	N/A	This stand was cut in 1994 in the sale Panting Bull Aspen (#53-009-93), bought by Georgia Pacific. Everything was cut except for oak. Regeneration has largely been a failure due to deer and elk browse. The only aspen to make it is a small clone in the middle part of the stand adjacent to the road. There are areas of nice white pine regeneration closer to the road but the further east you go in the stand, the worse the regeneration gets, with many areas resembling a U. A small clump of nice white oak regen can be found at the north tip of the stand but that's about the only oak saplings that made it past the browse level in the stand. The south end has a small clump that looks like it wasn't harvested and still has a few aspen stems. Trace of jack pine. Average ba/acre from 6 plots = 35 square feet.																																																						
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Red Oak</td> <td>55</td> <td>Log/XLog</td> <td>16</td> <td>85</td> </tr> <tr> <td>White Oak</td> <td>15</td> <td>Log/XLog</td> <td>15</td> <td></td> </tr> <tr> <td>Red Pine</td> <td>5</td> <td>Pole</td> <td>8</td> <td></td> </tr> <tr> <td>White Pine</td> <td>25</td> <td>Pole/Log</td> <td>8</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age		Red Oak	55	Log/XLog	16	85	White Oak	15	Log/XLog	15		Red Pine	5	Pole	8		White Pine	25	Pole/Log	8		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>White Pine</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>White Oak</td> <td>Trace</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Bigtooth Aspen</td> <td>Low</td> <td>>20 feet</td> <td>Sapling</td> </tr> <tr> <td>Red Pine</td> <td>Trace</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Jack Pine</td> <td>Trace</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Black Cherry</td> <td>Medium</td> <td>Variable</td> <td>Tall Shrub</td> </tr> <tr> <td>Red Maple</td> <td>Trace</td> <td>Variable</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	White Pine	Medium	Variable	Sapling	White Oak	Trace	Variable	Sapling	Bigtooth Aspen	Low	>20 feet	Sapling	Red Pine	Trace	Variable	Sapling	Jack Pine	Trace	Variable	Sapling	Black Cherry	Medium	Variable	Tall Shrub	Red Maple	Trace	Variable	Sapling
Canopy Species	% Cover	Size Class	DBH	Age																																																									
Red Oak	55	Log/XLog	16	85																																																									
White Oak	15	Log/XLog	15																																																										
Red Pine	5	Pole	8																																																										
White Pine	25	Pole/Log	8																																																										
Sub-Canopy Species	Density	Avg. Height	Size																																																										
White Pine	Medium	Variable	Sapling																																																										
White Oak	Trace	Variable	Sapling																																																										
Bigtooth Aspen	Low	>20 feet	Sapling																																																										
Red Pine	Trace	Variable	Sapling																																																										
Jack Pine	Trace	Variable	Sapling																																																										
Black Cherry	Medium	Variable	Tall Shrub																																																										
Red Maple	Trace	Variable	Sapling																																																										
10	42110 - Planted Red Pine	Poletimber Well	25.6	56	141-170	N/A	Stand cut as part of Figure 8 Red Pine, #53-016-13-01, bought by Precision. Cut in the winter of 2016-17. Massive timber trespass discovered the following spring during final sale checks. Trespass was paid at 1.5 the stumpage value. This stand was not impacted as badly as the other red pine stands that were a part of the sale. A small retention pocket was left to protect a stick nest. Average ba/acre from 5 plots = 143 square feet. Will be ready for a second thinning next entry.																																																						
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Red Pine</td> <td>92</td> <td>Pole/Log</td> <td>8</td> <td>56</td> </tr> <tr> <td>Red Maple</td> <td>4</td> <td>Pole/Log</td> <td>8</td> <td></td> </tr> <tr> <td>Red Oak</td> <td>4</td> <td>Log</td> <td>15</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age		Red Pine	92	Pole/Log	8	56	Red Maple	4	Pole/Log	8		Red Oak	4	Log	15																																								
Canopy Species	% Cover	Size Class	DBH	Age																																																									
Red Pine	92	Pole/Log	8	56																																																									
Red Maple	4	Pole/Log	8																																																										
Red Oak	4	Log	15																																																										
11	6233 - Wet Meadow	Nonstocked	16.4		Unspecified	No	Wet meadow with multiple streams entering Stewart Lake from the surrounding swamp.																																																						
		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Tamarack</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>White Pine</td> <td>Trace</td> <td>< 5 feet</td> <td>Seeding</td> </tr> <tr> <td>Northern White Cedar</td> <td>Trace</td> <td>< 5 feet</td> <td>Seeding</td> </tr> <tr> <td>Black Spruce</td> <td>Trace</td> <td>< 5 feet</td> <td>Seeding</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height		Size	Tamarack	Low	Variable	Sapling	White Pine	Trace	< 5 feet	Seeding	Northern White Cedar	Trace	< 5 feet	Seeding	Black Spruce	Trace	< 5 feet	Seeding																																					
Sub-Canopy Species	Density	Avg. Height	Size																																																										
Tamarack	Low	Variable	Sapling																																																										
White Pine	Trace	< 5 feet	Seeding																																																										
Northern White Cedar	Trace	< 5 feet	Seeding																																																										
Black Spruce	Trace	< 5 feet	Seeding																																																										
12	500 - Water	Nonstocked	4.0		Unspecified	No	Stewart Lake, also known as Robarge Lake.																																																						
13	6120 - Lowland Cedar	Poletimber Well	53.5	128	111-140	N/A	Generally high-quality swamp conifer stand dominated by cedar. Most cedar is healthy with only a few areas of decline noted. Several seeps, small streams, and drainages flow out of this stand, all eventually draining into Stewart Lake. Trace of red maple and red pine. Average ba/acre from 11 plots = 122 square feet. Did not visit the northwest part of the stand. Age came from a 13" cedar.																																																						
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Paper Birch</td> <td>1</td> <td>Pole/Log</td> <td>8</td> <td></td> </tr> <tr> <td>Balsam Fir</td> <td>5</td> <td>Pole</td> <td>7</td> <td></td> </tr> <tr> <td>Black Spruce</td> <td>23</td> <td>Pole/Log</td> <td>8</td> <td></td> </tr> <tr> <td>Northern White Cedar</td> <td>60</td> <td>Pole/Log</td> <td>9</td> <td>128</td> </tr> <tr> <td>White Pine</td> <td>3</td> <td>Log/XLog</td> <td>15</td> <td></td> </tr> <tr> <td>Tamarack</td> <td>8</td> <td>Pole/Log</td> <td>8</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age		Paper Birch	1	Pole/Log	8		Balsam Fir	5	Pole	7		Black Spruce	23	Pole/Log	8		Northern White Cedar	60	Pole/Log	9	128	White Pine	3	Log/XLog	15		Tamarack	8	Pole/Log	8		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Black Spruce</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Balsam Fir</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Tag Alder</td> <td>Low</td> <td>10 - 20 feet</td> <td>Tall Shrub</td> </tr> <tr> <td>Tamarack</td> <td>Trace</td> <td>Variable</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Black Spruce	Low	Variable	Sapling	Balsam Fir	Low	Variable	Sapling	Tag Alder	Low	10 - 20 feet	Tall Shrub	Tamarack	Trace	Variable	Sapling		
Canopy Species	% Cover	Size Class	DBH	Age																																																									
Paper Birch	1	Pole/Log	8																																																										
Balsam Fir	5	Pole	7																																																										
Black Spruce	23	Pole/Log	8																																																										
Northern White Cedar	60	Pole/Log	9	128																																																									
White Pine	3	Log/XLog	15																																																										
Tamarack	8	Pole/Log	8																																																										
Sub-Canopy Species	Density	Avg. Height	Size																																																										
Black Spruce	Low	Variable	Sapling																																																										
Balsam Fir	Low	Variable	Sapling																																																										
Tag Alder	Low	10 - 20 feet	Tall Shrub																																																										
Tamarack	Trace	Variable	Sapling																																																										
14	42200 - Natural White Pine	Poletimber Well	6.6	35	81-110	N/A	Moderate quality white pine stand. A few XL-sized white pine are scattered throughout. Some areas closer to the road with good white oak regeneration in the understory. The farther you get away from the road the heavier the browse on the white oak, with most of it being below 5 feet tall. Trace of red pine. Average ba/acre from 5 plots = 96 square feet.																																																						
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Red Maple</td> <td>5</td> <td>Pole</td> <td>6</td> <td></td> </tr> <tr> <td>Bigtooth Aspen</td> <td>2</td> <td>Pole</td> <td>7</td> <td></td> </tr> <tr> <td>White Pine</td> <td>79</td> <td>Pole/Log</td> <td>8</td> <td>35</td> </tr> <tr> <td>Red Oak</td> <td>5</td> <td>Log/XLog</td> <td>16</td> <td></td> </tr> <tr> <td>White Oak</td> <td>9</td> <td>Log/XLog</td> <td>16</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age		Red Maple	5	Pole	6		Bigtooth Aspen	2	Pole	7		White Pine	79	Pole/Log	8	35	Red Oak	5	Log/XLog	16		White Oak	9	Log/XLog	16		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>White Pine</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Black Cherry</td> <td>Low</td> <td>Variable</td> <td>Tall Shrub</td> </tr> <tr> <td>White Oak</td> <td>Low</td> <td>10 - 20 feet</td> <td>Sapling</td> </tr> <tr> <td>Red Maple</td> <td>Medium</td> <td>>20 feet</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	White Pine	Medium	Variable	Sapling	Black Cherry	Low	Variable	Tall Shrub	White Oak	Low	10 - 20 feet	Sapling	Red Maple	Medium	>20 feet	Sapling							
Canopy Species	% Cover	Size Class	DBH	Age																																																									
Red Maple	5	Pole	6																																																										
Bigtooth Aspen	2	Pole	7																																																										
White Pine	79	Pole/Log	8	35																																																									
Red Oak	5	Log/XLog	16																																																										
White Oak	9	Log/XLog	16																																																										
Sub-Canopy Species	Density	Avg. Height	Size																																																										
White Pine	Medium	Variable	Sapling																																																										
Black Cherry	Low	Variable	Tall Shrub																																																										
White Oak	Low	10 - 20 feet	Sapling																																																										
Red Maple	Medium	>20 feet	Sapling																																																										



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
15	4199 - Other Mixed Upland Deciduous	Poletimber Well	6.8	58	81-110	N/A	Two-aged stand with clumps of younger aspen and red maple mixed in with larger oak. The oak is not very good quality, although there are some large diameter trees. No sale records exist for this stand but it must have been cut at some point, removing everything except the oak. Average ba/acre from 4 plots = 110 square feet. Successful regeneration is not possible due to the high deer and elk browse pressure in this area.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Red Maple		32	Pole/Log	8		White Pine		
Red Oak		15	Log/XLog	15	85	Medium		
White Oak		2	Log/XLog	13		Variable		
Bigtooth Aspen		36	Pole/Log	8	58	Sapling		
White Pine		12	Pole/Log	8				
Red Pine		3	Log/Pole	13				
16	42200 - Natural White Pine	Poletimber Medium	8.8	47	81-110	N/A	Moderate quality white pine stand with a variety of diameters present. Stocking and quality are best in the north half. Stocking declines in the south half with more open-grown stems. The majority of white oak regeneration has been heavily browsed and is below 5 feet tall, however there are a couple of small patches that have made it above the browse level. The southeast end of the stand is where the jack pine and aspen component is located. Average ba/acre from 5 plots = 90 square feet. Flat terrain.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Red Oak		6	Log/XLog	16		White Oak		
White Oak		1	Log	14		Medium		
White Pine		78	Pole/Log	8	47	Variable		
Red Maple		4	Pole/Log	8		Sapling		
Bigtooth Aspen		2	Pole/Log	8		Trace		
Jack Pine		5	Pole	6		5 - 10 feet		
Red Pine		4	Log/Pole	13		Sapling		
						Trace		
						Variable		
						Sapling		
						Trace		
						Variable		
						Tall Shrub		
17	6239 - Mixed Emergent Wetland	Nonstocked	6.8	0	Unspecified	No	This stand is almost entirely standing dead cedar (due to past flooding?) with streams flowing through it. Found a small clump of invasive phragmites in the middle part of the stand, closer to the west edge. Some cedar is still alive along the edges but not many. Conifers are starting to fill in along the edges. The thin finger that extends south has filled in quite a bit with tamarack and spruce.	
Sub-Canopy Species		Density	Avg. Height	Size				
Tamarack		Low	Variable	Sapling				
Black Spruce		Low	Variable	Sapling				
Balsam Fir		Low	Variable	Sapling				
White Pine		Low	Variable	Sapling				
Red Pine		Trace	Variable	Sapling				
Paper Birch		Trace	Variable	Sapling				
Northern White Cedar		Low	>20 feet	Pole				
White Pine		Trace	>20 feet	Log				
Red Maple		Trace	>20 feet	Pole				
18	4199 - Other Mixed Upland Deciduous	Sawtimber Medium	37.6	81	51-80	N/A	Moderate quality mixed species stand that is not well-stocked in all places. Oak quality is variable with some large diameter trees present. A few small strips of planted red pine meander throughout the northwest part of the stand. A couple pockets of younger aspen are present, mostly in the west half. Not sure of the harvest history in this stand as it used to be under private ownership, but I'm guessing everything except oak was cut long ago. Average ba/acre from 9 plots = 76 square feet. The understory is barren in most areas of the stand as elk use this stand heavily. Flat terrain except for the northeast portion which has some steep slopes leading down to a sinkhole. Browse pressure is too high in this area to recommend a regeneration harvest. Stands of similar composition in the surrounding area that were harvested in the past did not regenerate well.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Red Maple		16	Pole	7		Red Maple		
Red Oak		37	Log/XLog	15	81	Low		
White Oak		16	Log/XLog	14		Variable		
Bigtooth Aspen		12	Pole/Log	9	58	Sapling		
White Pine		9	Pole/Log	8		Trace		
Red Pine		5	Log/Pole	10		Variable		
Jack Pine		1	Pole/Log	8		Tall Shrub		
Quaking Aspen		4	Pole	7				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																															
19	4129 - Mixed Oak	Sawtimber Well	9.9	96	81-110	N/A	Moderate quality oak stand. A second age class of large, old oak is present, a few in excess of 25" DBH. The pine component is more abundant in the north half of the stand. Lots of white oak seedlings in some areas but they are being heavily browsed. Average ba/acre from 5 plots = 106 square feet. Flat terrain. Deer and elk browse pressure makes successful regeneration of this stand unlikely.																																															
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Red Maple</td> <td>15</td> <td>Pole</td> <td>8</td> <td></td> </tr> <tr> <td>Red Oak</td> <td>28</td> <td>Log/XLog</td> <td>15</td> <td></td> </tr> <tr> <td>White Oak</td> <td>32</td> <td>Log/XLog</td> <td>14</td> <td>96</td> </tr> <tr> <td>Bigtooth Aspen</td> <td>2</td> <td>Log/Pole</td> <td>10</td> <td></td> </tr> <tr> <td>White Pine</td> <td>20</td> <td>Log/XLog/Pole</td> <td>14</td> <td></td> </tr> <tr> <td>Red Pine</td> <td>3</td> <td>Log/Pole</td> <td>12</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Red Maple	15	Pole	8		Red Oak	28	Log/XLog	15		White Oak	32	Log/XLog	14	96	Bigtooth Aspen	2	Log/Pole	10		White Pine	20	Log/XLog/Pole	14		Red Pine	3	Log/Pole	12		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>White Pine</td> <td>High</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>White Oak</td> <td>Medium</td> <td>< 5 feet</td> <td>Seeding</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	White Pine	High	Variable	Sapling	White Oak	Medium	< 5 feet	Seeding				
Canopy Species	% Cover	Size Class	DBH	Age																																																		
Red Maple	15	Pole	8																																																			
Red Oak	28	Log/XLog	15																																																			
White Oak	32	Log/XLog	14	96																																																		
Bigtooth Aspen	2	Log/Pole	10																																																			
White Pine	20	Log/XLog/Pole	14																																																			
Red Pine	3	Log/Pole	12																																																			
Sub-Canopy Species	Density	Avg. Height	Size																																																			
White Pine	High	Variable	Sapling																																																			
White Oak	Medium	< 5 feet	Seeding																																																			
20	4123 - Red Oak	Sawtimber Poor	32.0	94	1-50	N/A	Stand cut as part of Blue Lakes Buffet, #53-012-14-01, bought by NW Hardwoods. Whole-tree harvest. Residual ba/acre of oak roughly 15 square feet. Stand trenched in October of 2017. Planted to red pine 05/11/2018. Stocking of 858 trees/acre. First year regen survey 11/29/2018, 28% average mortality, 83% free to grow, 0.7 feet average height, trenches good, 9% of seedlings browsed. TPA after mortality accounted for = 618/acre. FTP # C53-460. 05/17/2019 - Stand replanted to achieve full stocking as previous regen survey (see above) indicated high mortality. Current stocking is at 1000 trees/acre. 09/23/20 - 3 year regen survey. Surviving TPA 758, average height 1.4 feet, 87% free to grow.																																															
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Red Oak</td> <td>94</td> <td>Log/XLog</td> <td>14</td> <td>94</td> </tr> <tr> <td>Bigtooth Aspen</td> <td>1</td> <td>Log</td> <td>13</td> <td></td> </tr> <tr> <td>White Oak</td> <td>5</td> <td>Log</td> <td>13</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Red Oak	94	Log/XLog	14	94	Bigtooth Aspen	1	Log	13		White Oak	5	Log	13		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Red Pine</td> <td>Full</td> <td>< 5 feet</td> <td>Seeding</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Red Pine	Full	< 5 feet	Seeding																							
Canopy Species	% Cover	Size Class	DBH	Age																																																		
Red Oak	94	Log/XLog	14	94																																																		
Bigtooth Aspen	1	Log	13																																																			
White Oak	5	Log	13																																																			
Sub-Canopy Species	Density	Avg. Height	Size																																																			
Red Pine	Full	< 5 feet	Seeding																																																			
21	4310 - Pine, Oak Mix	Poletimber Medium	22.4	49	51-80	N/A	Veins of young planted red pine mixed in throughout the stand with pockets of primarily oak, red maple, and white pine between the planted areas. Large diameter red and white pine can be found along the northern edge adjacent to the swamp. Rolling terrain with some steep slopes near the sinkhole to the south and swamp to the north. Not well-stocked in all areas. Average ba/acre from 9 plots = 61 square feet. Let the red pine mature more before treating.																																															
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Red Maple</td> <td>18</td> <td>Pole/Log</td> <td>8</td> <td></td> </tr> <tr> <td>Red Oak</td> <td>18</td> <td>Log/Pole</td> <td>14</td> <td>92</td> </tr> <tr> <td>White Oak</td> <td>4</td> <td>Log</td> <td>14</td> <td></td> </tr> <tr> <td>White Pine</td> <td>36</td> <td>Pole/Log/XLog</td> <td>8</td> <td>49</td> </tr> <tr> <td>Red Pine</td> <td>23</td> <td>Pole/Sapling</td> <td>6</td> <td>36</td> </tr> <tr> <td>Quaking Aspen</td> <td>1</td> <td>Pole</td> <td>9</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Red Maple	18	Pole/Log	8		Red Oak	18	Log/Pole	14	92	White Oak	4	Log	14		White Pine	36	Pole/Log/XLog	8	49	Red Pine	23	Pole/Sapling	6	36	Quaking Aspen	1	Pole	9		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>White Pine</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Red Pine</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Black Cherry</td> <td>Low</td> <td>Variable</td> <td>Tall Shrub</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	White Pine	Low	Variable	Sapling	Red Pine	Low	Variable	Sapling	Black Cherry	Low	Variable	Tall Shrub
Canopy Species	% Cover	Size Class	DBH	Age																																																		
Red Maple	18	Pole/Log	8																																																			
Red Oak	18	Log/Pole	14	92																																																		
White Oak	4	Log	14																																																			
White Pine	36	Pole/Log/XLog	8	49																																																		
Red Pine	23	Pole/Sapling	6	36																																																		
Quaking Aspen	1	Pole	9																																																			
Sub-Canopy Species	Density	Avg. Height	Size																																																			
White Pine	Low	Variable	Sapling																																																			
Red Pine	Low	Variable	Sapling																																																			
Black Cherry	Low	Variable	Tall Shrub																																																			
22	6233 - Wet Meadow	Nonstocked	1.6		Unspecified	No	Wet sinkhole with mostly sedges/grasses growing in it. Steep slopes along the edges.																																															
23	42110 - Planted Red Pine	Poletimber Well	2.1	34	111-140	N/A	Small stand of planted red pine. The middle part of the stand is in a slight depression and diameters are smaller in this location.																																															
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Red Pine</td> <td>96</td> <td>Pole/Sap/Log</td> <td>6</td> <td>34</td> </tr> <tr> <td>Red Maple</td> <td>4</td> <td>Pole/Log</td> <td>9</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Red Pine	96	Pole/Sap/Log	6	34	Red Maple	4	Pole/Log	9																																							
Canopy Species	% Cover	Size Class	DBH	Age																																																		
Red Pine	96	Pole/Sap/Log	6	34																																																		
Red Maple	4	Pole/Log	9																																																			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																							
24	4123 - Red Oak	Sawtimber Poor	24.5	94	1-50	N/A	This stand was cut in 1994 in the sale Panting Bull Aspen (#53-009-93), bought by Georgia Pacific. Everything was cut except for oak, although a few larger white pine were left as well. The oak residual is generally high quality with some large diameter trees present (20"+ DBH). Regeneration came back spotty and is not well-stocked. A few small clones of aspen regenerated along the eastern edge of the stand where the oak residual is lower. Red maple regenerated in areas of the interior. A few small areas at the south end where white oak is trying to seed in but it is being heavily browsed. Average ba/acre of the residual = 38 square feet. Some steep slopes in the west half of the stand.																																																							
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Red Oak</td> <td>64</td> <td>Log/XLog</td> <td>15</td> <td>94</td> </tr> <tr> <td>White Oak</td> <td>10</td> <td>Log</td> <td>14</td> <td></td> </tr> <tr> <td>Bigtooth Aspen</td> <td>5</td> <td>Pole/Sapling</td> <td>5</td> <td></td> </tr> <tr> <td>White Pine</td> <td>18</td> <td>Pole/Log</td> <td>8</td> <td></td> </tr> <tr> <td>Quaking Aspen</td> <td>3</td> <td>Pole/Sapling</td> <td>5</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age		Red Oak	64	Log/XLog	15	94	White Oak	10	Log	14		Bigtooth Aspen	5	Pole/Sapling	5		White Pine	18	Pole/Log	8		Quaking Aspen	3	Pole/Sapling	5		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Red Maple</td> <td>Medium</td> <td>>20 feet</td> <td>Sapling</td> </tr> <tr> <td>Bigtooth Aspen</td> <td>Low</td> <td>>20 feet</td> <td>Sapling</td> </tr> <tr> <td>Quaking Aspen</td> <td>Trace</td> <td>>20 feet</td> <td>Sapling</td> </tr> <tr> <td>White Pine</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Black Cherry</td> <td>Low</td> <td>Variable</td> <td>Tall Shrub</td> </tr> <tr> <td>Sweet Fern</td> <td>Medium</td> <td>< 5 feet</td> <td>Tall Shrub</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Red Maple	Medium	>20 feet	Sapling	Bigtooth Aspen	Low	>20 feet	Sapling	Quaking Aspen	Trace	>20 feet	Sapling	White Pine	Low	Variable	Sapling	Black Cherry	Low	Variable	Tall Shrub	Sweet Fern	Medium	< 5 feet	Tall Shrub
Canopy Species	% Cover	Size Class	DBH	Age																																																										
Red Oak	64	Log/XLog	15	94																																																										
White Oak	10	Log	14																																																											
Bigtooth Aspen	5	Pole/Sapling	5																																																											
White Pine	18	Pole/Log	8																																																											
Quaking Aspen	3	Pole/Sapling	5																																																											
Sub-Canopy Species	Density	Avg. Height	Size																																																											
Red Maple	Medium	>20 feet	Sapling																																																											
Bigtooth Aspen	Low	>20 feet	Sapling																																																											
Quaking Aspen	Trace	>20 feet	Sapling																																																											
White Pine	Low	Variable	Sapling																																																											
Black Cherry	Low	Variable	Tall Shrub																																																											
Sweet Fern	Medium	< 5 feet	Tall Shrub																																																											
25	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Poor	24.7	81	1-50	N/A	This stand had a partial harvest in 2004 in the sale Blue Lakes Oak Mix (#53-008-03), bought by BFP Management out of Gladstone. It looks like the intent was for this to be a shelterwood harvest but for some reason they left a lot of poor quality, small diameter red maple. Aspen only regenerated well in a few areas and it looks like browse had an impact. White oak seedlings are abundant in some areas but are being heavily browsed, with most below 3 feet tall. A small strip of planted red pine is present along the east side. Average ba/acre from 6 plots = 33 square feet.																																																							
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Red Oak</td> <td>10</td> <td>Log/Pole</td> <td>12</td> <td></td> </tr> <tr> <td>White Oak</td> <td>41</td> <td>Log/Pole</td> <td>13</td> <td>81</td> </tr> <tr> <td>White Pine</td> <td>33</td> <td>Pole/Log</td> <td>8</td> <td></td> </tr> <tr> <td>Red Maple</td> <td>16</td> <td>Pole</td> <td>7</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age		Red Oak	10	Log/Pole	12		White Oak	41	Log/Pole	13	81	White Pine	33	Pole/Log	8		Red Maple	16	Pole	7		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Bigtooth Aspen</td> <td>Medium</td> <td>>20 feet</td> <td>Sapling</td> </tr> <tr> <td>White Pine</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>White Oak</td> <td>Medium</td> <td>< 5 feet</td> <td>Seeding</td> </tr> <tr> <td>Black Cherry</td> <td>Low</td> <td>Variable</td> <td>Tall Shrub</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Bigtooth Aspen	Medium	>20 feet	Sapling	White Pine	Medium	Variable	Sapling	White Oak	Medium	< 5 feet	Seeding	Black Cherry	Low	Variable	Tall Shrub													
Canopy Species	% Cover	Size Class	DBH	Age																																																										
Red Oak	10	Log/Pole	12																																																											
White Oak	41	Log/Pole	13	81																																																										
White Pine	33	Pole/Log	8																																																											
Red Maple	16	Pole	7																																																											
Sub-Canopy Species	Density	Avg. Height	Size																																																											
Bigtooth Aspen	Medium	>20 feet	Sapling																																																											
White Pine	Medium	Variable	Sapling																																																											
White Oak	Medium	< 5 feet	Seeding																																																											
Black Cherry	Low	Variable	Tall Shrub																																																											
26	310 - Herbaceous Openland	Nonstocked	8.8		Unspecified	No	This was formerly a forested stand and was cut in 1994 in the sale Panting Bull Aspen (#53-009-93), bought by Georgia Pacific. Deer and elk browse have eliminated almost all regeneration except for some scattered pine, of which scotch pine is most prevalent. Yet another stand destroyed by browse. The north half of the stand is in somewhat of a valley.																																																							
<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Scotch Pine</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>White Pine</td> <td>Trace</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Black Cherry</td> <td>Medium</td> <td>Variable</td> <td>Tall Shrub</td> </tr> <tr> <td>Scotch Pine</td> <td>Low</td> <td>>20 feet</td> <td>Pole</td> </tr> <tr> <td>Jack Pine</td> <td>Trace</td> <td>>20 feet</td> <td>Pole</td> </tr> <tr> <td>Jack Pine</td> <td>Trace</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Red Pine</td> <td>Trace</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Scotch Pine</td> <td>Trace</td> <td>< 5 feet</td> <td>Seeding</td> </tr> <tr> <td>Sweet Fern</td> <td>High</td> <td>< 5 feet</td> <td>Tall Shrub</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Scotch Pine		Low	Variable	Sapling	White Pine	Trace	Variable	Sapling	Black Cherry	Medium	Variable	Tall Shrub	Scotch Pine	Low	>20 feet	Pole	Jack Pine	Trace	>20 feet	Pole	Jack Pine	Trace	Variable	Sapling	Red Pine	Trace	Variable	Sapling	Scotch Pine	Trace	< 5 feet	Seeding	Sweet Fern	High	< 5 feet	Tall Shrub																				
Sub-Canopy Species	Density	Avg. Height	Size																																																											
Scotch Pine	Low	Variable	Sapling																																																											
White Pine	Trace	Variable	Sapling																																																											
Black Cherry	Medium	Variable	Tall Shrub																																																											
Scotch Pine	Low	>20 feet	Pole																																																											
Jack Pine	Trace	>20 feet	Pole																																																											
Jack Pine	Trace	Variable	Sapling																																																											
Red Pine	Trace	Variable	Sapling																																																											
Scotch Pine	Trace	< 5 feet	Seeding																																																											
Sweet Fern	High	< 5 feet	Tall Shrub																																																											
27	320 - Upland Shrub	Nonstocked	12.4	0	Unspecified	No	This was formerly a forested stand (aspen/oak/red maple) and was cut in 2003 in the sale Lone Bull Blocks (#53-002-03), bought by Sidell Forest Products. Deer and elk browse have eliminated virtually all tree species regeneration except for some scrubby pine and a few aspen stems along the east side of the stand. The far north end has a couple of aspen poletimber stems which must have been missed when the stand was harvested. Black cherry is heavy in areas although it will not be a merchantable tree on these soils. One white oak sapling is present on the west side of the stand. Yet another forest destroyed by browse.																																																							
<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Jack Pine</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>White Pine</td> <td>Trace</td> <td>>20 feet</td> <td>Pole</td> </tr> <tr> <td>White Pine</td> <td>Trace</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Red Pine</td> <td>Trace</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Bigtooth Aspen</td> <td>Low</td> <td>>20 feet</td> <td>Sapling</td> </tr> <tr> <td>Black Cherry</td> <td>Full</td> <td>5 - 10 feet</td> <td>Tall Shrub</td> </tr> <tr> <td>Sweet Fern</td> <td>Medium</td> <td>< 5 feet</td> <td>Tall Shrub</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Jack Pine		Low	Variable	Sapling	White Pine	Trace	>20 feet	Pole	White Pine	Trace	Variable	Sapling	Red Pine	Trace	Variable	Sapling	Bigtooth Aspen	Low	>20 feet	Sapling	Black Cherry	Full	5 - 10 feet	Tall Shrub	Sweet Fern	Medium	< 5 feet	Tall Shrub																												
Sub-Canopy Species	Density	Avg. Height	Size																																																											
Jack Pine	Low	Variable	Sapling																																																											
White Pine	Trace	>20 feet	Pole																																																											
White Pine	Trace	Variable	Sapling																																																											
Red Pine	Trace	Variable	Sapling																																																											
Bigtooth Aspen	Low	>20 feet	Sapling																																																											
Black Cherry	Full	5 - 10 feet	Tall Shrub																																																											
Sweet Fern	Medium	< 5 feet	Tall Shrub																																																											



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
28	42110 - Planted Red Pine	Poletimber Well	21.9	58	111-140	N/A	Stand cut as part of Figure 8 Red Pine, #53-016-13-01, bought by Precision. Cut in winter of 2016-17. Massive timber trespass discovered the following spring during final sale checks. Trespass was paid at 1.5 the stumpage value. Despite the illegal cutting, this stand is in pretty good shape although there are a few areas of lower stocking and quite a bit of variability in diameters. It should be ready for a second thinning next entry. Trace of white oak. Average ba/acre from 5 plots = 140 square feet.	
Canopy Species		% Cover	Size Class	DBH	Age			
Red Pine		97	Pole/Log/Sap	8	58			
Red Maple		2	Pole	7				
Red Oak		1	Log	14				
29	4130 - Aspen	Poletimber Poor	32.6	27	1-50	N/A	This stand was cut in the winter of 1993-94 in the sale Panting Bull Aspen (#53-009-93), bought by Georgia Pacific. Everything was cut except for oak. Regeneration is very poor quality and has been heavily impacted by elk browse. There are only a few good patches of aspen regeneration, the best being near the road. The red maple that did make it past the browse level have damaged boles from elk girdling. The rest of the stand is poorly-stocked with areas of U with a lot of cherry and sweetfern. Some large diameter oak are present (25"+ DBH). Elk are still using the stand a lot. Average ba/acre from 8 plots = 33 square feet.	
Canopy Species		% Cover	Size Class	DBH	Age			
Red Maple		10	Sapling	3		Sub-Canopy Species		
Red Oak		8	Log/XLog	16		Density		Avg. Height
Bigtooth Aspen		63	Pole/Sapling	5	27	Black Cherry		Medium
Red Pine		3	Pole	7		Sweet Fern		High
White Oak		1	Log	13		Red Maple		Trace
White Pine		5	Pole/Log	8		Red Pine		Trace
Quaking Aspen		10	Sapling/Pole	4		White Pine		Trace
						Size		
30	42111 - Planted Red Pine, Mixed Deciduous	Poletimber Poor	13.7	34	51-80	N/A	Scattered pockets of planted red pine intermixed with numerous poorly-stocked and non-forested areas. Aspen is mixed in with the pine in a few areas and there are a few large diameter aspen at the south end. Average ba/acre from 8 plots = 79 square feet.	
Canopy Species		% Cover	Size Class	DBH	Age			
Red Maple		3	Pole/Log	8		Sub-Canopy Species		
Red Oak		3	Log/XLog	16		Density		Avg. Height
Bigtooth Aspen		22	Pole/Log	8		Red Maple		Low
White Pine		6	Log/Pole	11		White Pine		Low
Red Pine		63	Pole/Log	8	34	Jack Pine		Trace
Jack Pine		2	Pole	6		Red Pine		Trace
						Black Cherry		Medium
						Size		
31	42110 - Planted Red Pine	Poletimber Well	10.2	59	81-110	N/A	Stand cut as part of Figure 8 Red Pine, #53-016-13-01, bought by Precision. First row thin in the winter of 2016-17. Massive timber trespass discovered the following spring during final sale checks as they were cutting scattered trees from adjacent rows. Trespass was paid at only 1.5 the stumpage value. This stand was most impacted by the trespass and basal areas are highly irregular as a result of the illegal cutting. It will likely be another 2 entries before this stand is ready for a harvest. Average ba/acre from 5 plots = 100 square feet. Trace of red oak and bigtooth aspen in the overstory.	
Canopy Species		% Cover	Size Class	DBH	Age			
Red Maple		4	Pole/Log	8				
White Oak		1	Log	11				
Red Pine		95	Pole/Log	8	59			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments					
32	3205 - Mixed Upland Shrub	Nonstocked	25.2		Unspecified	No	Records show that the east 1/2 of this stand was harvested in the early 80s, with the west 1/2 cut in 1994. Regen was severely limited by browse, to such a degree that the stand is now an open brushland with mostly just scattered jack pine and white pine saplings. Only one small clone of aspen made it, about a 1/10th acre in size. A small amount of residual oak are present, mostly along the northern edge of the stand. A lot of the jack pine and red pine saplings, along with some black cherry, are badly damaged from elk rubs. The south running finger of the stand has much less trees and is mostly all black cherry.					
								Sub-Canopy Species	Density	Avg. Height	Size	
								Red Oak	Low	>20 feet	Log	
								White Oak	Trace	>20 feet	Log	
								Red Maple	Trace	>20 feet	Pole	
								White Pine	Trace	>20 feet	Pole	
								Red Pine	Trace	>20 feet	Pole	
								Jack Pine	Trace	>20 feet	Pole	
								Bigtooth Aspen	Trace	>20 feet	Pole	
								Jack Pine	Low	Variable	Sapling	
								White Pine	Low	Variable	Sapling	
								Red Pine	Trace	Variable	Sapling	
								Black Cherry	High	Variable	Tall Shrub	
								Sweet Fern	Medium	< 5 feet	Tall Shrub	
White Oak	Trace	Variable	Sapling									
33	3303 - Mixed Low Density Trees	Nonstocked	8.5		Unspecified	No	This stand was cut in 2003 in the sale Lone Bull Blocks (#53-002-03), bought by Sidell Forest Products. All species were cut except for about 10 square feet of residual oak. This was formerly an oak/aspen/maple stand with a small amount of pine. Deer and elk browse eliminated most deciduous species regeneration except for cherry which is abundant throughout the stand. Some white oak is trying to seed in but browse has kept almost all of it below 2 feet. Jack pine was most successful regenerating and there may be enough for this stand to be a J4 one day.					
								Sub-Canopy Species	Density	Avg. Height	Size	
								White Oak	Medium	>20 feet	Log	
								Red Oak	Low	>20 feet	Log	
								Jack Pine	Medium	Variable	Sapling	
								White Pine	Low	Variable	Sapling	
								Red Pine	Trace	Variable	Sapling	
								White Oak	Medium	< 5 feet	Seeding	
								Black Cherry	High	5 - 10 feet	Tall Shrub	
								Red Oak	Trace	< 5 feet	Seeding	
34	4123 - Red Oak	Sawtimber Poor	42.2	88	1-50	N/A	Stand cut as part of Blue Lakes Buffet, #53-021-14-01, bought by NW Hardwoods. Cut in early fall 2015, whole-tree job, minimal damage. Residual ba/acre averages around 15-20 square feet. Trenched and planted tor red pine first week of May, 2017, see FTP C53-460. 1st year regen survey results: red pine 772 TPA (0.2 ft), white pine 14 TPA (4.3 ft), red maple 417 TPA (0.7 ft), bigtooth aspen 158 TPA (1.5 ft), cherry 47 TPA (0.6 ft), oak 1462 TPA (0.6 ft). 09/23/20 - 3 year regen survey. Surviving TPA 935, average height 3.1 feet, 91% free to grow.					
								Canopy Species	% Cover	Size Class	DBH	Age
								White Pine	2	Log	12	
								Bigtooth Aspen	1	Log	12	
								Red Pine	1	Log	12	
								White Oak	10	Log	13	
								Red Oak	86	Log/XLog	14	88
								Sub-Canopy Species	Density	Avg. Height	Size	
								Red Pine	Full	< 5 feet	Seeding	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments									
35	320 - Upland Shrub	Nonstocked	10.6	0	Unspecified	No	This was formerly a forested stand (aspen/red maple/oak) that was clearcut in 2003 in the sale Lone Bull Blocks (#53-002-03), bought by Sidell Forest Products. Deer and elk browse have eliminated almost all regeneration in the stand other than cherry, which will not grow to a merchantable product on these soils.									
								Sub-Canopy Species	Density	Avg. Height	Size					
								Black Cherry	High	5 - 10 feet	Tall Shrub					
								Scotch Pine	Trace	Variable	Sapling					
								Red Oak	Trace	>20 feet	Log					
								White Pine	Low	Variable	Sapling					
								Scotch Pine	Trace	Variable	Pole					
								Red Pine	Trace	Variable	Sapling					
								White Pine	Low	Variable	Pole					
								Bigtooth Aspen	Trace	>20 feet	Sapling					
Quaking Aspen	Trace	>20 feet	Sapling													
Sweet Fern	Medium	< 5 feet	Tall Shrub													
36	4124 - Red with White Oak	Sawtimber Well	102.4	98	81-110	N/A	Moderate quality oak stand. A second age class of larger, older oak is scattered throughout. A few areas that are heavier to pine. The white pine understory is unhealthy in areas, with some stems already dead. Not sure the reason? Average ba/acre from 24 plots = 103 square feet. No harvesting has occurred in the majority of this stand. Rolling terrain with a few areas of steep slopes leading down to the lakes. The west shore of North Blue Lake has two separate areas with pits and depressions that appear manmade. Remnants of old structures from when this area was under private ownership (Blue Lakes Ranch) are found in the southern part of the stand, on the northwest shore of South Blue Lake. This stand serves as a nice visual buffer for both Blue Lakes and should never be managed.									
								Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
								Red Maple	10	Pole	6		Red Maple	Low	>20 feet	Sapling
								Red Oak	44	Log/Pole/XLog	12	98	White Pine	High	Variable	Sapling
								White Oak	24	Log/Pole/XLog	12					
								Bigtooth Aspen	9	Log/Pole	12					
								Red Pine	5	Log/XLog/Pole	13					
								White Pine	8	Log/Pole/XLog	12					
37	500 - Water	Nonstocked	20.9		Unspecified	No	North Blue Lake									
38	4123 - Red Oak	Sawtimber Poor	33.6	82	1-50	N/A	This stand was harvested in 1997 by a Tulgetska whole-tree chip crew in the sale Collared Cow Pine (#53-010-93). All oak, red pine, and white pine were left. Large diameters on the oak residual. Jack pine has regenerated well in many areas. There are other areas with a lot of oak regeneration but it is being heavily browsed and almost all of it is below 3 feet in height. Small amounts of scotch pine regeneration in the south half of the stand. Average ba/acre from 10 plots = 39 square feet. High deer and elk use throughout the stand.									
								Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
								Red Oak	70	Log/XLog	16	82	Jack Pine	Medium	10 - 20 feet	Sapling
								White Oak	7	Log	14		White Pine	Low	Variable	Sapling
								White Pine	6	Pole/Log	8		Scotch Pine	Trace	Variable	Sapling
								Red Pine	14	Log/Pole/XLog	13		Red Oak	Low	< 5 feet	Seeding
								Jack Pine	3	Pole/Sapling	5		White Oak	Medium	< 5 feet	Seeding
													White Oak	Trace	5 - 10 feet	Sapling
													Red Pine	Trace	Variable	Sapling
													Black Cherry	Low	5 - 10 feet	Tall Shrub



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																										
39	42120 - Planted Jack Pine	Sapling Well	42.6	19	Immature	N/A	This stand was harvested in 1997 by a Tulgetska whole-tree chip crew in the sale Collared Cow Pine (#53-010-93). Scattered jack pine were left as were a few pockets of planted red pine at the south end of the stand and along Blue Lakes Road. Jack pine did not regenerate well so this stand was trenched and seeded in 2002 (JD 740 with a Sigma seeder). The direct seeding was successful and there is thick regeneration throughout most of the stand. About a 1/4 of the stand in the northern part was excluded and not trenched or seeded. There is quite a bit of oak regeneration in this part of the north end but it is almost all under 2-3 feet and being heavily browsed. A couple of white oak made it past the browse and they are mostly at the south end of the stand.																																																										
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr><td>Red Oak</td><td>5</td><td>Log/XLog</td><td>17</td><td></td></tr> <tr><td>White Oak</td><td>3</td><td>Sapling</td><td>1</td><td></td></tr> <tr><td>Red Pine</td><td>9</td><td>Pole/Sap/Log</td><td>6</td><td></td></tr> <tr><td>Jack Pine</td><td>74</td><td>Sapling/Pole</td><td>3</td><td>19</td></tr> <tr><td>White Oak</td><td>1</td><td>Log</td><td>14</td><td></td></tr> <tr><td>Bigtooth Aspen</td><td>2</td><td>Pole/Sapling</td><td>5</td><td></td></tr> <tr><td>Scotch Pine</td><td>3</td><td>Sapling/Pole</td><td>3</td><td></td></tr> <tr><td>White Pine</td><td>3</td><td>Pole/Log</td><td>8</td><td></td></tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age		Red Oak	5	Log/XLog	17		White Oak	3	Sapling	1		Red Pine	9	Pole/Sap/Log	6		Jack Pine	74	Sapling/Pole	3	19	White Oak	1	Log	14		Bigtooth Aspen	2	Pole/Sapling	5		Scotch Pine	3	Sapling/Pole	3		White Pine	3	Pole/Log	8		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr><td>Black Cherry</td><td>Low</td><td>Variable</td><td>Tall Shrub</td></tr> <tr><td>Red Oak</td><td>Low</td><td>< 5 feet</td><td>Seeding</td></tr> <tr><td>White Oak</td><td>Low</td><td>< 5 feet</td><td>Seeding</td></tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Black Cherry	Low	Variable	Tall Shrub	Red Oak	Low	< 5 feet	Seeding	White Oak	Low	< 5 feet	Seeding
Canopy Species	% Cover	Size Class	DBH	Age																																																													
Red Oak	5	Log/XLog	17																																																														
White Oak	3	Sapling	1																																																														
Red Pine	9	Pole/Sap/Log	6																																																														
Jack Pine	74	Sapling/Pole	3	19																																																													
White Oak	1	Log	14																																																														
Bigtooth Aspen	2	Pole/Sapling	5																																																														
Scotch Pine	3	Sapling/Pole	3																																																														
White Pine	3	Pole/Log	8																																																														
Sub-Canopy Species	Density	Avg. Height	Size																																																														
Black Cherry	Low	Variable	Tall Shrub																																																														
Red Oak	Low	< 5 feet	Seeding																																																														
White Oak	Low	< 5 feet	Seeding																																																														
40	6225 - Bog	Nonstocked	5.9		Unspecified	No	The majority of this stand is a bog with leatherleaf and a lot of white pine and tamarack is filling in. The west edge and thin southern finger have a lot of alder and is more like an L type.																																																										
<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr><td>White Pine</td><td>Medium</td><td>Variable</td><td>Sapling</td></tr> <tr><td>Tamarack</td><td>Medium</td><td>Variable</td><td>Sapling</td></tr> <tr><td>Black Spruce</td><td>Low</td><td>Variable</td><td>Sapling</td></tr> <tr><td>Black Spruce</td><td>Trace</td><td>>20 feet</td><td>Pole</td></tr> <tr><td>Tamarack</td><td>Trace</td><td>>20 feet</td><td>Pole</td></tr> <tr><td>Quaking Aspen</td><td>Trace</td><td>>20 feet</td><td>Pole</td></tr> <tr><td>Tag Alder</td><td>Medium</td><td>10 - 20 feet</td><td>Tall Shrub</td></tr> <tr><td>Bog Willow</td><td>Low</td><td>< 5 feet</td><td>Tall Shrub</td></tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	White Pine		Medium	Variable	Sapling	Tamarack	Medium	Variable	Sapling	Black Spruce	Low	Variable	Sapling	Black Spruce	Trace	>20 feet	Pole	Tamarack	Trace	>20 feet	Pole	Quaking Aspen	Trace	>20 feet	Pole	Tag Alder	Medium	10 - 20 feet	Tall Shrub	Bog Willow	Low	< 5 feet	Tall Shrub																											
Sub-Canopy Species	Density	Avg. Height	Size																																																														
White Pine	Medium	Variable	Sapling																																																														
Tamarack	Medium	Variable	Sapling																																																														
Black Spruce	Low	Variable	Sapling																																																														
Black Spruce	Trace	>20 feet	Pole																																																														
Tamarack	Trace	>20 feet	Pole																																																														
Quaking Aspen	Trace	>20 feet	Pole																																																														
Tag Alder	Medium	10 - 20 feet	Tall Shrub																																																														
Bog Willow	Low	< 5 feet	Tall Shrub																																																														
41	623 - Emergent Wetland	Nonstocked	1.2		Unspecified	No	Small connecting marsh between the two Blue Lakes. An old road runs east-west through the northern part of the stand.																																																										
<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr><td>Tag Alder</td><td>Low</td><td>Variable</td><td>Tall Shrub</td></tr> <tr><td>Willow spp.</td><td>Trace</td><td>Variable</td><td>Tall Shrub</td></tr> <tr><td>Jack Pine</td><td>Trace</td><td>5 - 10 feet</td><td>Sapling</td></tr> <tr><td>Leatherleaf</td><td>Medium</td><td>< 5 feet</td><td>Tall Shrub</td></tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Tag Alder		Low	Variable	Tall Shrub	Willow spp.	Trace	Variable	Tall Shrub	Jack Pine	Trace	5 - 10 feet	Sapling	Leatherleaf	Medium	< 5 feet	Tall Shrub																																											
Sub-Canopy Species	Density	Avg. Height	Size																																																														
Tag Alder	Low	Variable	Tall Shrub																																																														
Willow spp.	Trace	Variable	Tall Shrub																																																														
Jack Pine	Trace	5 - 10 feet	Sapling																																																														
Leatherleaf	Medium	< 5 feet	Tall Shrub																																																														
42	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	10.2	63	51-80	N/A	Mixed conifer stand with a lot of small stems. Leatherleaf and sphagnum hummocks in the understory. White pine is more abundant in the south half. Alder becomes more common in the north half. The far southern edge is upland with mature jack pine. A small upland knob with some large diameter white pine is present in the middle of the stand. Trace of red pine. Average ba/acre from 5 plots = 62 square feet.																																																										
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr><td>Black Spruce</td><td>24</td><td>Pole/Sapling</td><td>6</td><td></td></tr> <tr><td>Tamarack</td><td>48</td><td>Pole/Sapling</td><td>6</td><td>63</td></tr> <tr><td>White Pine</td><td>23</td><td>Pole/Log</td><td>8</td><td></td></tr> <tr><td>Jack Pine</td><td>5</td><td>Pole/Log</td><td>8</td><td></td></tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age		Black Spruce	24	Pole/Sapling	6		Tamarack	48	Pole/Sapling	6	63	White Pine	23	Pole/Log	8		Jack Pine	5	Pole/Log	8		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr><td>Tamarack</td><td>Medium</td><td>>20 feet</td><td>Sapling</td></tr> <tr><td>Black Spruce</td><td>Medium</td><td>Variable</td><td>Sapling</td></tr> <tr><td>White Pine</td><td>Low</td><td>>20 feet</td><td>Sapling</td></tr> <tr><td>Tag Alder</td><td>Low</td><td>10 - 20 feet</td><td>Tall Shrub</td></tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Tamarack	Medium	>20 feet	Sapling	Black Spruce	Medium	Variable	Sapling	White Pine	Low	>20 feet	Sapling	Tag Alder	Low	10 - 20 feet	Tall Shrub																
Canopy Species	% Cover	Size Class	DBH	Age																																																													
Black Spruce	24	Pole/Sapling	6																																																														
Tamarack	48	Pole/Sapling	6	63																																																													
White Pine	23	Pole/Log	8																																																														
Jack Pine	5	Pole/Log	8																																																														
Sub-Canopy Species	Density	Avg. Height	Size																																																														
Tamarack	Medium	>20 feet	Sapling																																																														
Black Spruce	Medium	Variable	Sapling																																																														
White Pine	Low	>20 feet	Sapling																																																														
Tag Alder	Low	10 - 20 feet	Tall Shrub																																																														



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
43	42200 - Natural White Pine	Poletimber Poor	4.4	44	1-50	N/A	<p>Unsure of the history of this stand, whether it was harvested or used to have a structure when this area was under private ownership. Poor quality white pine for the most part, except for some larger trees of better quality along the edges. Average ba/acre from 3 plots = 50 square feet. A small wet drainage is present along the southeast side near the lake.</p>		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Oak	1	XLog	20		White Pine	Medium		Variable	Sapling
White Oak	2	Log/Pole/XLog	12		Red Pine	Trace		Variable	Sapling
Red Maple	2	Pole/Log	8		Red Oak	Trace		Variable	Sapling
Red Pine	7	Pole/Log	9		White Oak	Trace		Variable	Sapling
White Pine	88	Pole/Log	9	44	Red Maple	Trace		Variable	Sapling
					Black Cherry	High	Variable	Tall Shrub	
44	500 - Water	Nonstocked	19.5		Unspecified	No	South Blue Lake		
45	4310 - Pine, Oak Mix	Sawtimber Well	5.2	54	81-110	N/A	<p>Thin stand that borders South Blue Lake. Wide mix of species and sizes. Pine sawtimber heavier at the north end. Drier site quality than other stands in the area. Jack pine used to be a larger component but much of it has died. Average ba/acre from 4 plots = 95 square feet.</p>		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Oak	13	Log	14	93	White Pine	High		Variable	Sapling
Bigtooth Aspen	15	Log/Pole	12		Jack Pine	Trace		Variable	Sapling
Red Pine	15	Log/Pole	12						
Jack Pine	18	Pole/Log	8						
White Oak	6	Log	14						
Red Maple	9	Pole	7						
White Pine	24	Pole/Log	8	54					
46	623 - Emergent Wetland	Nonstocked	1.7		Unspecified	No	Lots of marsh grass/sedge and leatherleaf.		
Sub-Canopy Species	Density	Avg. Height	Size						
Tamarack	Medium	5 - 10 feet	Sapling						
Bog Willow	Low	5 - 10 feet	Tall Shrub						
Tag Alder	Low	10 - 20 feet	Tall Shrub						
47	4199 - Other Mixed Upland Deciduous	Sawtimber Well	21.8	95	81-110	N/A	<p>Stand thinned in summer of 2018 in the sale Woodstove Hardwoods, #53-006-13-01, bought by Precision. High quality stand. A little bit of residual damage as BA's were left too high in areas. All ash was removed due to EAB. A few pockets of hemlock that were not marked in. Average residual ba/acre from 19 plots = 99 square feet. Trace of elm and yellow birch.</p>		
Canopy Species	% Cover	Size Class	DBH	Age					
Sugar Maple	22	Log/Pole	10						
Red Maple	3	Pole	6						
Basswood	12	Log	11						
Beech	1	Log	12						
Red Oak	46	Log/XLog	14	95					
White Oak	2	Log/Pole	12						
Paper Birch	3	Log/Pole	10						
Bigtooth Aspen	8	Log	14						
Hemlock	2	Pole/Log	9						
White Pine	1	XLog/Log	19						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																													
48	42220 - Natural Jack Pine	Sapling Medium	20.2	23	Immature	N/A	This stand was cut in 1998 in the sale Collared Cow Pine (#53-010-93), bought by Tulgetska, cut by a whole-tree crew. All red pine, white pine, and oak were left. A few scattered clumps of older jack pine were left as well. Jack pine regenerated very well naturally except for the southwest part of the stand which has a higher oak residual. Rolling terrain.																																													
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Red Oak</td> <td>5</td> <td>Log/XLog</td> <td>15</td> <td></td> </tr> <tr> <td>White Oak</td> <td>6</td> <td>Log</td> <td>14</td> <td></td> </tr> <tr> <td>Red Pine</td> <td>15</td> <td>Log</td> <td>13</td> <td></td> </tr> <tr> <td>Jack Pine</td> <td>63</td> <td>Sapling/Pole</td> <td>3</td> <td>23</td> </tr> <tr> <td>White Pine</td> <td>11</td> <td>Pole</td> <td>6</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age		Red Oak	5	Log/XLog	15		White Oak	6	Log	14		Red Pine	15	Log	13		Jack Pine	63	Sapling/Pole	3	23	White Pine	11	Pole	6		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Red Pine</td> <td>Trace</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> <tr> <td>White Pine</td> <td>Trace</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> <tr> <td>Black Cherry</td> <td>Low</td> <td>Variable</td> <td>Tall Shrub</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Red Pine	Trace	5 - 10 feet	Sapling	White Pine	Trace	5 - 10 feet	Sapling	Black Cherry	Low	Variable	Tall Shrub		
Canopy Species	% Cover	Size Class	DBH	Age																																																
Red Oak	5	Log/XLog	15																																																	
White Oak	6	Log	14																																																	
Red Pine	15	Log	13																																																	
Jack Pine	63	Sapling/Pole	3	23																																																
White Pine	11	Pole	6																																																	
Sub-Canopy Species	Density	Avg. Height	Size																																																	
Red Pine	Trace	5 - 10 feet	Sapling																																																	
White Pine	Trace	5 - 10 feet	Sapling																																																	
Black Cherry	Low	Variable	Tall Shrub																																																	
49	4311 - Pine, Aspen Mix	Sapling Medium	8.9	27	Immature	N/A	This stand was cut in 1994 in the sale Panting Bull Aspen (#53-009-93), bought by Georgia Pacific. A large clone of aspen regenerated in the north half of the stand but there isn't much aspen in the remainder. Pine and red maple are dominant in the south half. A small pothole wetland is present at the far northern end. Most of the red maple and good amount of the aspen have damaged boles from elk girdling. A few oak made it past the browse level, but not many.																																													
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Red Maple</td> <td>25</td> <td>Sapling</td> <td>3</td> <td></td> </tr> <tr> <td>Bigtooth Aspen</td> <td>30</td> <td>Sapling/Pole</td> <td>3</td> <td></td> </tr> <tr> <td>White Pine</td> <td>30</td> <td>Pole/Sapling</td> <td>6</td> <td>27</td> </tr> <tr> <td>Jack Pine</td> <td>10</td> <td>Sapling/Pole</td> <td>4</td> <td></td> </tr> <tr> <td>Red Oak</td> <td>1</td> <td>Sapling/Pole</td> <td>4</td> <td></td> </tr> <tr> <td>White Oak</td> <td>2</td> <td>Sapling/Pole</td> <td>4</td> <td></td> </tr> <tr> <td>Red Pine</td> <td>2</td> <td>Pole</td> <td>5</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age		Red Maple	25	Sapling	3		Bigtooth Aspen	30	Sapling/Pole	3		White Pine	30	Pole/Sapling	6	27	Jack Pine	10	Sapling/Pole	4		Red Oak	1	Sapling/Pole	4		White Oak	2	Sapling/Pole	4		Red Pine	2	Pole	5		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>White Pine</td> <td>Medium</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	White Pine	Medium	5 - 10 feet	Sapling
Canopy Species	% Cover	Size Class	DBH	Age																																																
Red Maple	25	Sapling	3																																																	
Bigtooth Aspen	30	Sapling/Pole	3																																																	
White Pine	30	Pole/Sapling	6	27																																																
Jack Pine	10	Sapling/Pole	4																																																	
Red Oak	1	Sapling/Pole	4																																																	
White Oak	2	Sapling/Pole	4																																																	
Red Pine	2	Pole	5																																																	
Sub-Canopy Species	Density	Avg. Height	Size																																																	
White Pine	Medium	5 - 10 feet	Sapling																																																	
50	6220 - Alder/willow	Nonstocked	4.8	0	Unspecified	No	Thick alder.																																													
<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Tag Alder</td> <td>Full</td> <td>10 - 20 feet</td> <td>Tall Shrub</td> </tr> <tr> <td>Tamarack</td> <td>Trace</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Tamarack</td> <td>Trace</td> <td>>20 feet</td> <td>Pole</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Tag Alder		Full	10 - 20 feet	Tall Shrub	Tamarack	Trace	Variable	Sapling	Tamarack	Trace	>20 feet	Pole																																		
Sub-Canopy Species	Density	Avg. Height	Size																																																	
Tag Alder	Full	10 - 20 feet	Tall Shrub																																																	
Tamarack	Trace	Variable	Sapling																																																	
Tamarack	Trace	>20 feet	Pole																																																	
51	320 - Upland Shrub	Nonstocked	44.1	0	Unspecified	4222 - Natural Jack Pine	Stand cut in the summer of 2017 as part of Road 49 Jack Pine. Scattered clumps of jack pine seed trees were left. All red pine and oak were left although they are not common. A few pockets of small, planted red pine were excluded along Blue Lakes Road. One interior retention pocket. Not much scarification took place through chipping activities other than the landing and main skid trails. Natural jack pine regeneration has not responded well, except for near the landing next to Road 49. Grass and sedge has taken over at the ground level and some areas are heavy to black cherry. Per prescription, if natural regeneration fails, interplant jack pine or scarify the site further. Regen survey results from 13 plots: jack pine 277 TPA (6" tall), black cherry 508 TPA (2.5' tall).																																													
<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Jack Pine</td> <td>Low</td> <td>>20 feet</td> <td>Pole</td> </tr> <tr> <td>Red Pine</td> <td>Trace</td> <td>>20 feet</td> <td>Log</td> </tr> <tr> <td>Red Pine</td> <td>Trace</td> <td>10 - 20 feet</td> <td>Sapling</td> </tr> <tr> <td>Red Oak</td> <td>Trace</td> <td>>20 feet</td> <td>Log</td> </tr> <tr> <td>White Oak</td> <td>Trace</td> <td>>20 feet</td> <td>Log</td> </tr> <tr> <td>White Pine</td> <td>Trace</td> <td>>20 feet</td> <td>Pole</td> </tr> <tr> <td>White Pine</td> <td>Trace</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Jack Pine</td> <td>Low</td> <td>< 5 feet</td> <td>Seeding</td> </tr> <tr> <td>Black Cherry</td> <td>Medium</td> <td>< 5 feet</td> <td>Seeding</td> </tr> <tr> <td>Black Cherry</td> <td>Medium</td> <td>5 - 10 feet</td> <td>Tall Shrub</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Jack Pine		Low	>20 feet	Pole	Red Pine	Trace	>20 feet	Log	Red Pine	Trace	10 - 20 feet	Sapling	Red Oak	Trace	>20 feet	Log	White Oak	Trace	>20 feet	Log	White Pine	Trace	>20 feet	Pole	White Pine	Trace	Variable	Sapling	Jack Pine	Low	< 5 feet	Seeding	Black Cherry	Medium	< 5 feet	Seeding	Black Cherry	Medium	5 - 10 feet	Tall Shrub						
Sub-Canopy Species	Density	Avg. Height	Size																																																	
Jack Pine	Low	>20 feet	Pole																																																	
Red Pine	Trace	>20 feet	Log																																																	
Red Pine	Trace	10 - 20 feet	Sapling																																																	
Red Oak	Trace	>20 feet	Log																																																	
White Oak	Trace	>20 feet	Log																																																	
White Pine	Trace	>20 feet	Pole																																																	
White Pine	Trace	Variable	Sapling																																																	
Jack Pine	Low	< 5 feet	Seeding																																																	
Black Cherry	Medium	< 5 feet	Seeding																																																	
Black Cherry	Medium	5 - 10 feet	Tall Shrub																																																	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
52	42110 - Planted Red Pine	Poletimber Well	4.0	40	111-140	N/A	Good looking younger plantation. A few areas of suppressed stems underneath larger oak. Trace of XL-sized red oak, red pine, and white pine. Average ba/acre from 5 plots = 114 square feet. Row widths generally look wide enough for a standard 3rd row thinning, although there are a few spots where the rows get narrower.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Red Pine		94	Pole/Sapling	6	40	White Pine		
Red Maple		2	Pole	8		Black Cherry		
White Oak		1	Log/XLog	16		Trace		
Jack Pine		3	Pole/Log	8		Variable		
53	4129 - Mixed Oak	Sawtimber Medium	20.9	102	51-80	N/A	Moderate quality oak stand with some large diameter oak (20"+) mixed in throughout. Heavy to white oak in some areas. Most of the north half of this stand was thinned in 1994 in the sale Panting Bull Aspen (#53-009-93), bought by Georgia Pacific. For whatever reason, areas of the south half were not included in the sale and these areas have a heavier understory of white pine (see 98DOQ imagery). White oak seeding into a few areas but being kept under 2 feet tall due to heavy browse. Trace of XL-sized white pine. Average ba/acre from 8 plots = 73 square feet. Flat terrain. No regeneration harvest recommended due to the heavy browse pressure in the area.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Red Oak		35	Log/XLog	15	102	White Oak		
White Oak		32	Log/XLog	14		White Pine		
Red Pine		7	Log/Pole	10		Medium		
Jack Pine		3	Pole	8		Variable		
White Pine		15	Pole	6		Sapling		
Red Maple		8	Pole	7				
54	6127 - Lowland Pine	Sawtimber Well	1.8	48	111-140	N/A	Small stand of mostly white pine and tamarack. Most of the stand is lowland except for a small upland ridge at the far NW part of the stand which has most of the red pine. A variety of white pine sizes are present. Trace of red oak and white oak. Average ba/acre from 3 plots = 120 square feet. Bog-like at the ground level with a lot of leatherleaf.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Tamarack		19	Pole/Log	9		White Pine		
White Pine		68	Log/Pole/XLog	13	48	Tag Alder		
Red Maple		3	Log	11		Trace		
Red Pine		10	Log/XLog	15	89	10 - 20 feet		
55	4124 - Red with White Oak	Sawtimber Well	19.2	89	81-110	N/A	Stand of moderate to low quality oak. Quality tends to increase the further south you travel in the stand. A ring of large diameter red and white pine at the north end of the stand, bordering the lake and lowland areas. A heavy white pine understory is present in many areas of the stand, with the white pine starting to recruit into the overstory. The middle part of the stand was apparently thinned in 1994, although it is hard to distinguish from the remainder of the stand. Average ba/acre from 13 plots = 87 square feet. Deer and elk browse is too high in this area to recommend a regeneration harvest. Let white pine continue to fill in.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Red Maple		4	Pole	6		White Pine		
Red Oak		60	Log/Pole/XLog	13	89	High		
White Oak		20	Log/Pole	12		Variable		
White Pine		12	Pole	6		Sapling		
Red Pine		3	Log/XLog	15				
Bigtooth Aspen		1	Log/XLog	15				
56	6121 - Tamarack	Poletimber Poor	7.8	55	51-80	N/A	Poorly-stocked stand as a lot of the tamarack is dead. Cedar and some lowland hardwoods are at the far southern end of the stand, south of the small lake. Trace of paper birch and hemlock in the overstory. Average ba/acre from 6 plots = 35 square feet.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Tamarack		82	Pole/Log	9	55	White Pine		
Yellow Birch		1	Pole/Log	8		Alder		
Red Maple		2	Log/Pole	10		Tamarack		
Northern White Cedar		15	Log/Pole	11		Paper Birch		
						Trace		
						Variable		
						Sapling		
57	500 - Water	Nonstocked	0.9		Unspecified	No	Small unnamed lake.	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
58	42110 - Planted Red Pine	Poletimber Well	2.2	37	141-170	N/A	Healthy, dense red pine plantation. Diameters tend to increase at the south end of the stand. Trace of red maple and red oak. Average ba/acre from 3 plots = 170 square feet. Row widths vary, most look wide enough to allow a standard 1/3rd row thinning but some areas are too narrow.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Red Pine		95	Pole/Sapling	6	37	Black Cherry		
Jack Pine		5	Pole/Log	8		Low		
							Avg. Height	
							Variable	
							Size	
							Tall Shrub	
59	42220 - Natural Jack Pine	Sapling Well	29.4	26	Immature	N/A	This stand was cut by a whole-tree Tulgetska crew in snow-free conditions in 1995 in the sale Collared Cow Pine (#53-010-93). Natural regeneration came back very well in the east half of the stand but not the west. The west half was trenched and direct seeded (JD 740 with Sigma seeder) in 2002 which was very successful and resulted in dense jack pine regeneration. Scotch pine is more prevalent in the east half of the stand. A few larger jack pine are scattered infrequently throughout. Trace of red oak sawlog trees. Flat terrain.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Jack Pine		79	Sapling/Pole	3	26	Black Cherry		
Scotch Pine		15	Sapling/Pole	3		Low		
Red Pine		1	Log/Pole	11		Variable		
Black Cherry		5	Sapling	3		Size		
						Tall Shrub		
60	6121 - Tamarack	Poletimber Medium	4.3	98	81-110	N/A	Small bog-like sinkhole that is dominated by moderate quality tamarack. Most stems appear healthy. Cedar tends to be along the north and east edges. Sphagnum hummocks throughout. Small area in the middle that is not stocked. The southern end of the stand is non-forested and almost pure alder. Trace of red maple, paper birch, and white spruce. Average ba/acre from 5 plots = 90 square feet. This stand was prescribed in 2011 but treatment was not implemented due to the very wet ground.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Black Spruce		17	Pole/Sapling	6		Black Spruce		
Northern White Cedar		11	Pole/Log	8		Medium		
Tamarack		50	Pole/Log	8	98	Variable		
White Pine		19	Log/XLog	16		Sapling		
Jack Pine		1	Log	11		Trace		
Red Pine		2	Log	14		Variable		
						Sapling		
						Trace		
						Variable		
						Sapling		
						Medium		
						5 - 10 feet		
						Tall Shrub		
61	42200 - Natural White Pine	Poletimber Poor	3.5	27	51-80	N/A	This stand was clearcut in 1994 in the sale Panting Bull Aspen (#53-009-93), bought by Georgia Pacific. Regeneration did not come back well except for some clumps of white pine and old inventory notes indicate that browse impacted most regeneration in the stand. The white pine clumps in the south half of the stand appear to be advanced regeneration that was protected during the harvest. There is quite a bit of white oak regeneration in the south half and although a few stems have made it past the browse level, the majority have been hit hard by browse and are being held below 2-3 feet tall. The north half of the stand is barely forested with just a few clumps of open-grown white pine.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Black Cherry		2	Pole	5		White Pine		
White Oak		5	Sapling	3		Medium		
Jack Pine		5	Pole	5		Variable		
Red Pine		10	Pole/Sapling	6		Sapling		
White Pine		78	Pole/Sap/Log	6	27	10 - 20 feet		
						Sapling		
						Low		
						Medium		
						< 5 feet		
						Seeding		
						Medium		
						Variable		
						Tall Shrub		
						Medium		
						< 5 feet		
						Tall Shrub		
62	6122 - Black Spruce	Poletimber Well	17.8	71	51-80	N/A	Moderate to high quality spruce stand. There are two distinct age classes in the stand. Older clumps of nice spruce are common in the north half of the stand along with some clumps of pine mixed in. A younger age class is common along the southern 1/2 of the stand. Previous inventory examiners noted that it is possible that the southern part was harvested when stand 73 was also cut, although there are no obvious signs of a past harvest (stumps, skid trails, etc.) nor are there any sale records since this area was under private ownership at the time. Red pine is mostly at the far southwest end of the stand. Trace of paper birch. Average ba/acre from 8 plots = 71 square feet. This is a lowland stand but the ground doesn't seem too wet except for along the northern edge closer to the stream. Look at potential management when the 2nd age class matures. Ages came from a 8" and 6" black spruce.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Black Spruce		64	Pole/Sap/Log	7	71	Black Spruce		
Tamarack		2	Pole/Log	8		Medium		
White Pine		14	Log/Pole	10		Variable		
Jack Pine		3	Pole/Log	8		Sapling		
Quaking Aspen		11	Pole	7	46	10 - 20 feet		
Red Pine		6	Pole/Log	9		Tall Shrub		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments				
63	4123 - Red Oak	Sawtimber Medium	37.1	89	51-80	N/A	Variable stand that is largely dominated by oak. The southern 1/3rd of the stand has higher quality oak and had all the red maple and jack pine removed at the same time stand 67 to the west was cut. The remainder of the stand has only moderate quality oak with scattered pine and red maple mixed in. A few patches of younger red pine have been planted east of the north/south running closed road. A small, wet sinkhole with large diameter white pine is present just south of stand 60. Trace of quaking aspen. Average ba/acre from 11 plots = 70 square feet. Some steep slopes along the edges of the interior tamarack stand (#60), larger diameter red and white pine is more common on these side-slopes. Rolling terrain throughout the rest of the stand. Deer and elk browse are too high in this area to recommend a regeneration harvest.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Oak		46	Log/XLog	14	89	Jack Pine		Trace	Variable	Sapling	
White Oak		14	Log	13		Red Maple		Trace	Variable	Sapling	
Red Pine		11	Log/Pole	12		White Oak		Trace	Variable	Sapling	
Red Maple		12	Pole/Log	8		White Pine		Medium	Variable	Sapling	
Jack Pine		4	Pole	7							
White Pine		13	Pole/Log	8							
64	42110 - Planted Red Pine	Poletimber Well	34.0	57	141-170	N/A	Stand cut as part of Figure 8 Red Pine, #53-016-13-01, bought by Precision. Cut in winter of 2016-17. Massive timber trespass discovered the following spring during final sale checks. Trespass was paid at 1.5 the stumpage value. The worst illegal cutting took place in the middle part of the stand. The majority of the stand is in decent shape and should be ready for a second thinning next entry. A few other species are scattered throughout. Average ba/acre from 6 plots = 142 square feet. There are a few small sinkhole-like depressions scattered throughout the stand, all appear to be dry. They planted in a unique circular pattern in these areas.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
White Oak		3	Log/XLog	15		White Pine		Low	Variable	Sapling	
White Pine		4	Log/XLog/Pole	14							
Red Pine		86	Pole/Log	8	57						
Jack Pine		2	Pole	8							
Red Oak		2	Log/XLog	15							
Red Maple		3	Pole/Log	8							
65	4130 - Aspen	Poletimber Well	6.5	44	111-140	N/A	Nice aspen stand with a small amount of supercanopy oak and pine. A few scattered hemlock are also present. Suppressed white pine poletimber is abundant in some areas of the understory. Trace of white oak sawtimber and red oak poletimber. Average ba/acre from 7 plots = 112 square feet.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Maple		5	Pole/Sapling	6		White Pine		Medium	Variable	Sapling	
Bigtooth Aspen		40	Pole/Log	8	44	Red Maple		Low	>20 feet	Sapling	
White Pine		11	Pole/Log/XLog	8		Black Cherry		Trace	Variable	Tall Shrub	
Red Pine		4	Log/XLog	14		Witch Hazel		Trace	5 - 10 feet	Tall Shrub	
Hemlock		1	Log/Pole	11		Autumn Olive		Trace	< 5 feet	Tall Shrub	
Red Oak		5	Log/XLog	15							
Quaking Aspen		34	Pole/Log	8							
66	42200 - Natural White Pine	Poletimber Well	4.8	44	81-110	N/A	Mostly well-stocked stand of white pine poletimber. The northeast corner of the stand has some larger oak mixed in. The finger that extends west has a little aspen in it. This stand was likely clearcut at the same time as stand 65 to the west. Trace of XL-sized red and white pine. Average ba/acre from 4 plots = 95 square feet.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Maple		10	Pole	7		White Pine		Medium	Variable	Sapling	
Red Oak		5	Log/XLog	15							
White Oak		3	Log	14							
White Pine		71	Pole/Log	8	44						
Red Pine		3	Pole	7							
Bigtooth Aspen		8	Pole/Log	8							



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																		
67	4310 - Pine, Oak Mix	Sawtimber Poor	39.8	89	1-50	N/A	This stand was cut in 1998 in the sale Collared Cow Pine (#53-010-93), bought by Tulgetska, cut by a whole-tree crew. All oak, red pine, and white pine were left. The residual is variable with some areas being barely stocked while others are like an O8. Jack pine regenerated well in some of the areas with a lower residual. An old FTP shows that this stand was selected for trenching and seeding of jack pine, similar to other stands in the Compartment. However, it doesn't look like this took place as the residual is too high in most areas. White oak has seeded into many places but browse is holding the majority below 2-3 feet tall. Only at the southern end of the stand near stands 80 and 81 are there some white oak that made it past the browse level. Mostly flat terrain except for some small sinkhole-like depressions in the middle part of the stand north of stand 70. Average ba/acre from 10 plots = 40 square feet.																																																		
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Red Oak</td> <td>35</td> <td>Log/XLog</td> <td>15</td> <td>89</td> </tr> <tr> <td>White Oak</td> <td>23</td> <td>Log</td> <td>14</td> <td></td> </tr> <tr> <td>White Pine</td> <td>10</td> <td>Pole/Log</td> <td>8</td> <td></td> </tr> <tr> <td>Red Pine</td> <td>32</td> <td>Log/XLog</td> <td>14</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age		Red Oak	35	Log/XLog	15	89	White Oak	23	Log	14		White Pine	10	Pole/Log	8		Red Pine	32	Log/XLog	14		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Jack Pine</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>White Pine</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>White Oak</td> <td>Trace</td> <td>10 - 20 feet</td> <td>Sapling</td> </tr> <tr> <td>Red Pine</td> <td>Trace</td> <td>10 - 20 feet</td> <td>Sapling</td> </tr> <tr> <td>White Oak</td> <td>Medium</td> <td>< 5 feet</td> <td>Seeding</td> </tr> <tr> <td>Black Cherry</td> <td>Medium</td> <td>Variable</td> <td>Tall Shrub</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Jack Pine	Medium	Variable	Sapling	White Pine	Low	Variable	Sapling	White Oak	Trace	10 - 20 feet	Sapling	Red Pine	Trace	10 - 20 feet	Sapling	White Oak	Medium	< 5 feet	Seeding	Black Cherry	Medium	Variable	Tall Shrub
Canopy Species	% Cover	Size Class	DBH	Age																																																					
Red Oak	35	Log/XLog	15	89																																																					
White Oak	23	Log	14																																																						
White Pine	10	Pole/Log	8																																																						
Red Pine	32	Log/XLog	14																																																						
Sub-Canopy Species	Density	Avg. Height	Size																																																						
Jack Pine	Medium	Variable	Sapling																																																						
White Pine	Low	Variable	Sapling																																																						
White Oak	Trace	10 - 20 feet	Sapling																																																						
Red Pine	Trace	10 - 20 feet	Sapling																																																						
White Oak	Medium	< 5 feet	Seeding																																																						
Black Cherry	Medium	Variable	Tall Shrub																																																						
68	6233 - Wet Meadow	Nonstocked	1.4		Unspecified	No	The east half of the stand is largely non-forested and looks to have a lot of herbaceous species diversity. The west half of the stand is filling in with conifers.																																																		
<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Black Spruce</td> <td>Low</td> <td>>20 feet</td> <td>Pole</td> </tr> <tr> <td>Black Spruce</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Tamarack</td> <td>Trace</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>White Pine</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>White Spruce</td> <td>Trace</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Bog Willow</td> <td>Low</td> <td>5 - 10 feet</td> <td>Tall Shrub</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Black Spruce		Low	>20 feet	Pole	Black Spruce	Low	Variable	Sapling	Tamarack	Trace	Variable	Sapling	White Pine	Low	Variable	Sapling	White Spruce	Trace	Variable	Sapling	Bog Willow	Low	5 - 10 feet	Tall Shrub																											
Sub-Canopy Species	Density	Avg. Height	Size																																																						
Black Spruce	Low	>20 feet	Pole																																																						
Black Spruce	Low	Variable	Sapling																																																						
Tamarack	Trace	Variable	Sapling																																																						
White Pine	Low	Variable	Sapling																																																						
White Spruce	Trace	Variable	Sapling																																																						
Bog Willow	Low	5 - 10 feet	Tall Shrub																																																						
69	42200 - Natural White Pine	Poletimber Poor	2.5	27	1-50	N/A	This stand was cut in 1994 in the sale Panting Bull Aspen (#53-009-93), bought by Georgia Pacific. Quite a bit of advanced white pine regeneration was left and additional white pine has started to fill in the stand. There are a few clumps of white oak regeneration that made it past the browse level (5-15' tall), although the majority has been hit hard by browse and is below 3 feet tall.																																																		
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Red Pine</td> <td>2</td> <td>Pole/Sapling</td> <td>5</td> <td></td> </tr> <tr> <td>White Pine</td> <td>98</td> <td>Pole/Sap/Log</td> <td>6</td> <td>27</td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age		Red Pine	2	Pole/Sapling	5		White Pine	98	Pole/Sap/Log	6	27	<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>White Pine</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>White Oak</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>White Oak</td> <td>Medium</td> <td>< 5 feet</td> <td>Seeding</td> </tr> <tr> <td>Red Pine</td> <td>Trace</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Black Cherry</td> <td>Low</td> <td>Variable</td> <td>Tall Shrub</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	White Pine	Medium	Variable	Sapling	White Oak	Low	Variable	Sapling	White Oak	Medium	< 5 feet	Seeding	Red Pine	Trace	Variable	Sapling	Black Cherry	Low	Variable	Tall Shrub														
Canopy Species	% Cover	Size Class	DBH	Age																																																					
Red Pine	2	Pole/Sapling	5																																																						
White Pine	98	Pole/Sap/Log	6	27																																																					
Sub-Canopy Species	Density	Avg. Height	Size																																																						
White Pine	Medium	Variable	Sapling																																																						
White Oak	Low	Variable	Sapling																																																						
White Oak	Medium	< 5 feet	Seeding																																																						
Red Pine	Trace	Variable	Sapling																																																						
Black Cherry	Low	Variable	Tall Shrub																																																						
70	6239 - Mixed Emergent Wetland	Nonstocked	1.3		Unspecified	No	Small sinkhole-like depression. Sedge/marsh grass hummocks are abundant. The east half of the stand has a lot of willow (not sure which species but appears to be a shrub not a tree). Alder mostly in the southwest corner. Steep slopes along the edges.																																																		
<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>White Pine</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Red Pine</td> <td>Trace</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Quaking Aspen</td> <td>Trace</td> <td>>20 feet</td> <td>Pole</td> </tr> <tr> <td>Tag Alder</td> <td>Low</td> <td>10 - 20 feet</td> <td>Tall Shrub</td> </tr> <tr> <td>Bog Willow</td> <td>Medium</td> <td>5 - 10 feet</td> <td>Tall Shrub</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	White Pine		Low	Variable	Sapling	Red Pine	Trace	Variable	Sapling	Quaking Aspen	Trace	>20 feet	Pole	Tag Alder	Low	10 - 20 feet	Tall Shrub	Bog Willow	Medium	5 - 10 feet	Tall Shrub																															
Sub-Canopy Species	Density	Avg. Height	Size																																																						
White Pine	Low	Variable	Sapling																																																						
Red Pine	Trace	Variable	Sapling																																																						
Quaking Aspen	Trace	>20 feet	Pole																																																						
Tag Alder	Low	10 - 20 feet	Tall Shrub																																																						
Bog Willow	Medium	5 - 10 feet	Tall Shrub																																																						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																													
71	42220 - Natural Jack Pine	Poletimber Medium	49.5	52	51-80	N/A	Moderate quality jack pine stand. Some areas with a lot of jack pine mortality. Steep slopes along the portion of the stand that borders the Black River. A few small clumps of planted red pine are present, mostly in the east half of the stand, south of the road. There are also a few patches of scotch pine in this area as well, closer to Blue Lakes Road. Red maple becomes more numerous further west in the stand. Trace of white oak and paper birch in the overstory. Average ba/acre from 17 plots = 58 square feet.																																																													
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr><td>Red Maple</td><td>19</td><td>Pole/Log</td><td>8</td><td></td></tr> <tr><td>Red Oak</td><td>4</td><td>Log/XLog</td><td>15</td><td></td></tr> <tr><td>Red Pine</td><td>7</td><td>Pole/Log</td><td>8</td><td></td></tr> <tr><td>Jack Pine</td><td>61</td><td>Pole/Log</td><td>8</td><td>52</td></tr> <tr><td>Black Cherry</td><td>1</td><td>Pole</td><td>6</td><td></td></tr> <tr><td>White Pine</td><td>4</td><td>Pole/Log</td><td>8</td><td></td></tr> <tr><td>Scotch Pine</td><td>4</td><td>Pole/Log</td><td>8</td><td></td></tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age		Red Maple	19	Pole/Log	8		Red Oak	4	Log/XLog	15		Red Pine	7	Pole/Log	8		Jack Pine	61	Pole/Log	8	52	Black Cherry	1	Pole	6		White Pine	4	Pole/Log	8		Scotch Pine	4	Pole/Log	8		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr><td>Black Cherry</td><td>Medium</td><td>Variable</td><td>Tall Shrub</td></tr> <tr><td>White Pine</td><td>Medium</td><td>Variable</td><td>Sapling</td></tr> <tr><td>Jack Pine</td><td>Trace</td><td>Variable</td><td>Sapling</td></tr> <tr><td>Red Pine</td><td>Trace</td><td>Variable</td><td>Sapling</td></tr> <tr><td>Scotch Pine</td><td>Trace</td><td>Variable</td><td>Sapling</td></tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Black Cherry	Medium	Variable	Tall Shrub	White Pine	Medium	Variable	Sapling	Jack Pine	Trace	Variable	Sapling	Red Pine	Trace	Variable	Sapling	Scotch Pine	Trace	Variable	Sapling
Canopy Species	% Cover	Size Class	DBH	Age																																																																
Red Maple	19	Pole/Log	8																																																																	
Red Oak	4	Log/XLog	15																																																																	
Red Pine	7	Pole/Log	8																																																																	
Jack Pine	61	Pole/Log	8	52																																																																
Black Cherry	1	Pole	6																																																																	
White Pine	4	Pole/Log	8																																																																	
Scotch Pine	4	Pole/Log	8																																																																	
Sub-Canopy Species	Density	Avg. Height	Size																																																																	
Black Cherry	Medium	Variable	Tall Shrub																																																																	
White Pine	Medium	Variable	Sapling																																																																	
Jack Pine	Trace	Variable	Sapling																																																																	
Red Pine	Trace	Variable	Sapling																																																																	
Scotch Pine	Trace	Variable	Sapling																																																																	
72	6112 - Lowland Aspen	Poletimber Medium	9.0	37	51-80	N/A	Moderately stocked lowland aspen stand that is close to the Black River. There are two age classes present in the stand. Current age of 37 came from a 8" tree, while the 79 was recorded for an aspen from a previous inventory cycle. Trace of tamarack and basswood. Average ba/acre from 5 plots = 66 square feet.																																																													
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr><td>Paper Birch</td><td>1</td><td>Pole/Log</td><td>8</td><td></td></tr> <tr><td>Quaking Aspen</td><td>81</td><td>Pole/Log</td><td>9</td><td>37</td></tr> <tr><td>Balsam Poplar</td><td>10</td><td>Pole/Sapling</td><td>7</td><td></td></tr> <tr><td>Black Spruce</td><td>5</td><td>Pole/Log</td><td>8</td><td></td></tr> <tr><td>White Pine</td><td>3</td><td>Log/Pole</td><td>12</td><td>79</td></tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age		Paper Birch	1	Pole/Log	8		Quaking Aspen	81	Pole/Log	9	37	Balsam Poplar	10	Pole/Sapling	7		Black Spruce	5	Pole/Log	8		White Pine	3	Log/Pole	12	79	<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr><td>Tag Alder</td><td>Low</td><td>10 - 20 feet</td><td>Tall Shrub</td></tr> <tr><td>Nannyberry</td><td>Trace</td><td>5 - 10 feet</td><td>Tall Shrub</td></tr> <tr><td>Balsam Poplar</td><td>Trace</td><td>>20 feet</td><td>Sapling</td></tr> <tr><td>Black Spruce</td><td>Low</td><td>Variable</td><td>Sapling</td></tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Tag Alder	Low	10 - 20 feet	Tall Shrub	Nannyberry	Trace	5 - 10 feet	Tall Shrub	Balsam Poplar	Trace	>20 feet	Sapling	Black Spruce	Low	Variable	Sapling														
Canopy Species	% Cover	Size Class	DBH	Age																																																																
Paper Birch	1	Pole/Log	8																																																																	
Quaking Aspen	81	Pole/Log	9	37																																																																
Balsam Poplar	10	Pole/Sapling	7																																																																	
Black Spruce	5	Pole/Log	8																																																																	
White Pine	3	Log/Pole	12	79																																																																
Sub-Canopy Species	Density	Avg. Height	Size																																																																	
Tag Alder	Low	10 - 20 feet	Tall Shrub																																																																	
Nannyberry	Trace	5 - 10 feet	Tall Shrub																																																																	
Balsam Poplar	Trace	>20 feet	Sapling																																																																	
Black Spruce	Low	Variable	Sapling																																																																	
73	6112 - Lowland Aspen	Sapling Medium	5.5	35	1-50	N/A	Old inventory notes say that this stand was possibly harvested in the late 1980's. No sale records found. Decent aspen regeneration throughout the stand, although diameters are very small for its age. The stand does not appear to be overly wet although it can be considered a part of the Black River floodplain.																																																													
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr><td>Quaking Aspen</td><td>66</td><td>Sapling/Pole</td><td>3</td><td>35</td></tr> <tr><td>White Spruce</td><td>1</td><td>Sapling</td><td>4</td><td></td></tr> <tr><td>Jack Pine</td><td>3</td><td>Pole</td><td>6</td><td></td></tr> <tr><td>White Pine</td><td>10</td><td>Pole/Sapling</td><td>5</td><td></td></tr> <tr><td>Red Pine</td><td>5</td><td>Pole/Sap/Log</td><td>6</td><td></td></tr> <tr><td>Black Spruce</td><td>15</td><td>Pole/Sapling</td><td>6</td><td></td></tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age		Quaking Aspen	66	Sapling/Pole	3	35	White Spruce	1	Sapling	4		Jack Pine	3	Pole	6		White Pine	10	Pole/Sapling	5		Red Pine	5	Pole/Sap/Log	6		Black Spruce	15	Pole/Sapling	6		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr><td>White Pine</td><td>Low</td><td>Variable</td><td>Sapling</td></tr> <tr><td>White Spruce</td><td>Trace</td><td>Variable</td><td>Sapling</td></tr> <tr><td>Black Spruce</td><td>Low</td><td>Variable</td><td>Sapling</td></tr> <tr><td>Tag Alder</td><td>Trace</td><td>10 - 20 feet</td><td>Tall Shrub</td></tr> <tr><td>Bog Willow</td><td>Trace</td><td>5 - 10 feet</td><td>Tall Shrub</td></tr> <tr><td>Black Cherry</td><td>Low</td><td>Variable</td><td>Tall Shrub</td></tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	White Pine	Low	Variable	Sapling	White Spruce	Trace	Variable	Sapling	Black Spruce	Low	Variable	Sapling	Tag Alder	Trace	10 - 20 feet	Tall Shrub	Bog Willow	Trace	5 - 10 feet	Tall Shrub	Black Cherry	Low	Variable	Tall Shrub	
Canopy Species	% Cover	Size Class	DBH	Age																																																																
Quaking Aspen	66	Sapling/Pole	3	35																																																																
White Spruce	1	Sapling	4																																																																	
Jack Pine	3	Pole	6																																																																	
White Pine	10	Pole/Sapling	5																																																																	
Red Pine	5	Pole/Sap/Log	6																																																																	
Black Spruce	15	Pole/Sapling	6																																																																	
Sub-Canopy Species	Density	Avg. Height	Size																																																																	
White Pine	Low	Variable	Sapling																																																																	
White Spruce	Trace	Variable	Sapling																																																																	
Black Spruce	Low	Variable	Sapling																																																																	
Tag Alder	Trace	10 - 20 feet	Tall Shrub																																																																	
Bog Willow	Trace	5 - 10 feet	Tall Shrub																																																																	
Black Cherry	Low	Variable	Tall Shrub																																																																	
74	42290 - Natural Mixed Pine	Poletimber Medium	17.8	55	51-80	N/A	Moderate quality jack pine stand but a lot of it has died and fallen over. Numerous non-forested or poorly-stocked areas are mixed in throughout. A few areas heavier to white pine, mostly along the west edge of the stand. A few XL-sized white and red pine scattered throughout. White oak and red maple are trying to seed into a few areas but are being heavily browsed and are less than 2 feet tall. Average ba/acre from 8 plots = 76 square feet. Flat terrain. There appears to be an old ROW that runs northwest/southeast through the middle of the stand (see 98DOQ) although it is not very distinguishable on the ground.																																																													
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr><td>Red Maple</td><td>3</td><td>Pole/Log</td><td>8</td><td></td></tr> <tr><td>Red Oak</td><td>4</td><td>Log/XLog</td><td>15</td><td></td></tr> <tr><td>White Pine</td><td>22</td><td>Pole/Sapling</td><td>5</td><td></td></tr> <tr><td>Red Pine</td><td>13</td><td>Log/XLog</td><td>13</td><td></td></tr> <tr><td>Jack Pine</td><td>55</td><td>Pole</td><td>8</td><td>55</td></tr> <tr><td>White Oak</td><td>1</td><td>Log</td><td>14</td><td></td></tr> <tr><td>Bigtooth Aspen</td><td>2</td><td>Log</td><td>12</td><td></td></tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age		Red Maple	3	Pole/Log	8		Red Oak	4	Log/XLog	15		White Pine	22	Pole/Sapling	5		Red Pine	13	Log/XLog	13		Jack Pine	55	Pole	8	55	White Oak	1	Log	14		Bigtooth Aspen	2	Log	12		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr><td>White Pine</td><td>Medium</td><td>Variable</td><td>Sapling</td></tr> <tr><td>Black Cherry</td><td>Low</td><td>Variable</td><td>Tall Shrub</td></tr> <tr><td>Red Maple</td><td>Low</td><td>< 5 feet</td><td>Seeding</td></tr> <tr><td>White Oak</td><td>Medium</td><td>< 5 feet</td><td>Seeding</td></tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	White Pine	Medium	Variable	Sapling	Black Cherry	Low	Variable	Tall Shrub	Red Maple	Low	< 5 feet	Seeding	White Oak	Medium	< 5 feet	Seeding				
Canopy Species	% Cover	Size Class	DBH	Age																																																																
Red Maple	3	Pole/Log	8																																																																	
Red Oak	4	Log/XLog	15																																																																	
White Pine	22	Pole/Sapling	5																																																																	
Red Pine	13	Log/XLog	13																																																																	
Jack Pine	55	Pole	8	55																																																																
White Oak	1	Log	14																																																																	
Bigtooth Aspen	2	Log	12																																																																	
Sub-Canopy Species	Density	Avg. Height	Size																																																																	
White Pine	Medium	Variable	Sapling																																																																	
Black Cherry	Low	Variable	Tall Shrub																																																																	
Red Maple	Low	< 5 feet	Seeding																																																																	
White Oak	Medium	< 5 feet	Seeding																																																																	
75	6220 - Alder/willow	Nonstocked	21.6		Unspecified	No	This stand borders the Black River. Only looked at a few spots along the edges. It looks to be mostly alder mixed in with meadows. A few clumps of trees are present and are a mix of aspen, BAM, cedar, spruce, and pine.																																																													



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
76	4129 - Mixed Oak	Sawtimber Well	17.4	83	81-110	N/A	Moderate quality mixed species stand. Oak quality tends to vary, with some areas of low quality. Two age classes present in the stand. The 83 age came from a 15" red pine, while the 115 age came from a 16" red pine that was obviously much older (different bark texture, crown structure, etc.). Some scattered areas of lower stocking mixed in throughout. A few areas with a lot of white pine poletimber. Some areas of slopes, mostly around the two sinkhole inclusions. Average ba/acre from 9 plots = 88 square feet. There appears to be an old ROW that runs northwest/southeast through the middle of the stand (see 98DOQ) although it is not very distinguishable on the ground.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Oak	30	Log/XLog	14		White Pine	Medium		Variable	Sapling
White Oak	30	Log/XLog	14	83	Red Pine	Trace		Variable	Sapling
White Pine	12	Log/Pole/XLog	10		White Oak	Low		< 5 feet	Seeding
Red Pine	15	Log/XLog	14	115	Black Cherry	Low		Variable	Tall Shrub
Red Maple	13	Pole/Log	8						
77	429 - Mixed Upland Conifers	Sawtimber Well	1.5	102	111-140	N/A	Diverse stand. It was dry at time of inventory but I'm guessing a lot of the stand is seasonally wet based on the species composition and presence of pit and mound topography. Average ba/acre from 2 plots = 135 square feet. No management.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Maple	20	Log/Pole	11		Ironwood	Low		Variable	Sapling
Paper Birch	3	Pole/Log	9						
Northern White Cedar	30	Pole/Log	8	102					
White Pine	20	Log/XLog	15						
Hemlock	6	Log/Pole	12						
Balsam Fir	1	Pole	6						
Red Oak	3	Log/XLog	14						
Red Pine	5	Log/XLog	14						
Basswood	11	Log	14						
Sugar Maple	1	Log	13						
78	429 - Mixed Upland Conifers	Poletimber Well	7.5	44	81-110	N/A	This stand had a partial harvest while under private ownership in 1977, cutting everything except oak, red pine, white pine, cedar, and hemlock. Regeneration came back mostly to white pine and aspen. Several small ponds and vernal pools are present throughout the stand (see OFS layer). Trace of cedar, white spruce, and balsam fir in the overstory. Let the second age class mature before considering a harvest. Protect all ponds and vernal pools with buffers.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Maple	5	Pole/Sapling	5		Red Maple	Low		>20 feet	Sapling
Bigtooth Aspen	4	Log/Pole	12		White Pine	Medium		Variable	Sapling
White Pine	45	Pole/Log/XLog	8	44	Ironwood	Trace		Variable	Sapling
Hemlock	3	Log/XLog	13		White Ash	Trace		Variable	Sapling
Red Oak	5	Log/XLog/Pole	14		Beech	Trace		Variable	Sapling
Balsam Poplar	1	Log/Pole	10						
Red Pine	13	Log/XLog	15	94					
Quaking Aspen	23	Pole/Log	8						
White Oak	1	Log/XLog	15						
79	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	21.7	98	81-110	N/A	Moderate quality oak/pine stand with some large diameter trees mixed in. Quality increases the further south you go in the stand. A lot of the white oak are short and limby. Heavy white pine understory in areas. Average ba/acre from 7 plots = 83 square feet. Gently rolling terrain.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Maple	12	Pole	8		White Pine	High		Variable	Sapling
Red Oak	31	Log/XLog	15	98					
White Oak	19	Log/XLog	14						
Bigtooth Aspen	3	Log	13						
White Pine	31	Log/Pole/XLog	13	98					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments				
80	6127 - Lowland Pine	Sawtimber Medium	2.4	60	51-80	N/A	Small sinkhole-like depression with wet, bog-like ground at the lowest part. Pine and spruce is primarily in the middle, lowland part of the stand with a ring of aspen around the upper side-slopes. Some nice white oak regen in places. Average ba/acre from 3 plots = 67 square feet. No management.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Quaking Aspen		35	Pole/Log	8	60	White Pine		Medium	Variable	Sapling	
Black Spruce		13	Pole/Sapling	7		Black Spruce		Low	Variable	Sapling	
White Pine		30	Log/XLog/Pole	16	98	White Oak		Low	Variable	Sapling	
Red Pine		22	Log/XLog	16		Red Maple		Low	Variable	Sapling	
						Beech		Trace	Variable	Sapling	
						Black Cherry		Medium	Variable	Tall Shrub	
81	42110 - Planted Red Pine	Poletimber Well	5.3	60	81-110	N/A		Stand cut as part of Figure 8 Red Pine, #53-016-13-01, bought by Precision. Cut in winter of 2016-17. Massive timber trespass discovered the following spring during final sale checks. Trespass was paid at 1.5 the stumpage value. Sporadic stocking as a result of the illegal cutting. Average ba/acre from 4 plots = 105 square feet. Found a small pocket of dieback (12 trees) in the northeast part of the stand adjacent to the road.			
Canopy Species		% Cover	Size Class	DBH	Age						
Red Pine		95	Pole/Log	8	60						
White Pine		1	Log/XLog	16							
White Oak		1	Log	14							
Red Oak		1	Log	14							
Quaking Aspen		2	Pole	7							
82	6127 - Lowland Pine	Sawtimber Medium	2.1	98	51-80	N/A	Small sinkhole-like depression with a bog understory (sphagnum/leatherleaf). Areas of poor-stocking along the northwest side. Some quaking aspen along the upland edges of the stand on the south side. Average ba/acre from 3 plots = 67 square feet. No management.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Black Spruce		20	Pole/Sapling	6		White Pine		Medium	Variable	Sapling	
Red Pine		30	Log/XLog	17		Black Spruce		Low	Variable	Sapling	
Jack Pine		2	Pole	8		Red Maple		Trace	Variable	Sapling	
Quaking Aspen		15	Log/Pole	11		Black Cherry		Low	Variable	Tall Shrub	
White Pine		33	Log/Pole/XLog	11	98						
83	6122 - Black Spruce	Poletimber Well	5.5	100	111-140	N/A	Moderate quality black spruce stand with a component of white pine mixed in. Sphagnum hummocks and Labrador tea at the ground level. There is a ring of wetter ground along the north and west edges of the stand and this is where most of the cedar, alder, and holly is located. Average ba/acre from 3 plots = 123 square feet.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Black Spruce		68	Pole/Sapling	7	100	Black Spruce		Medium	>20 feet	Sapling	
Tamarack		4	Sapling	4		Paper Birch		Trace	Variable	Sapling	
White Pine		20	Log/Pole/XLog	11		Red Maple		Trace	Variable	Sapling	
Red Pine		4	Log/Pole	10		Tag Alder		Low	5 - 10 feet	Tall Shrub	
Northern White Cedar		2	Pole/Log	9		Michigan Holly		Low	5 - 10 feet	Tall Shrub	
Paper Birch		1	Pole	6							
Red Maple		1	Pole	6							



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments				
84	6112 - Lowland Aspen	Sawtimber Poor	16.2	79	1-50	N/A	Poorly-stocked stand adjacent to the Black River. Stocking is much lower in the south 1/2 of the stand and is more of a lowland shrub type. A variety of sizes on the quaking aspen and BAM, including some nice patches of BAM regeneration. Some cedar and tamarack in pockets along the riverbank. A few clumps of invasive honeysuckle are scattered throughout. A lot of goldenrod and aster in the open, meadow-like parts of the stand. Trace of red pine and paper birch in the overstory. Average ba/acre from 6 plots= 28 square feet.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Black Cherry		3	Pole	5		Balsam Poplar		Medium	Variable	Sapling	
Jack Pine		1	Pole/Log	8		Tag Alder		Medium	10 - 20 feet	Tall Shrub	
Tamarack		3	Pole/Log	9		Black Cherry		Low	Variable	Tall Shrub	
Northern White Cedar		8	Log	12							
Balsam Poplar		20	Pole/Log	8							
Quaking Aspen		65	Log/Pole	13	79						
85	42200 - Natural White Pine	Poletimber Medium	5.5	27	51-80	N/A	This stand was cut in 1994 in the sale Panting Bull Aspen (#53-009-93), bought by Georgia Pacific. Regeneration came back mostly to white pine, with some of it advanced regeneration that was left following the harvest. White pine quality is variable with some areas of poor-quality open-grown stems. The south half of the stand has a few areas of white oak regeneration that made it past the browse level, although the majority have been held below 2-3 feet due to persistent browse. Trace of tamarack and pin cherry. Average ba/acre from 5 plots = 58 square feet. There are a few scattered wet areas, most in the north half of the stand. Flat to gently rolling terrain.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Oak		1	Pole/Sapling	5		White Pine		Medium	Variable	Sapling	
Black Spruce		3	Pole/Sapling	5		White Oak		Low	10 - 20 feet	Sapling	
White Oak		5	Sapling	3		White Oak		Medium	< 5 feet	Seeding	
Red Pine		5	Pole/Sapling	5		Red Pine		Trace	Variable	Sapling	
Jack Pine		5	Pole	6		Red Maple		Trace	Variable	Sapling	
White Pine		81	Pole/Sap/Log	6	27	Black Cherry		Medium	Variable	Tall Shrub	
						Tag Alder		Trace	10 - 20 feet	Tall Shrub	
86	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Medium	55.4	84	81-110	N/A	Variable mixed species stand that is difficult to type out. There are at least 3 age classes; a younger age class of primarily white pine with a few small clones of aspen mixed in, a mature pine and oak component, and then a 3rd age class of large diameter, old oak (20"+ DBH). Previous inventory notes an age of 119 for this older oak component. In general, the west/southwest half of the stand has more oak, while the northeast half of the stand has a lot more white pine. Oak quality is only mediocre. The red maple is low quality. Trace of paper birch. Average ba/acre from 13 plots = 95 square feet. Scattered areas of poor-stocking are mixed in throughout. Management history of this stand is unknown as this area was once under private ownership. Areas of older blowdown along the west side of the stand, near the closed road. Old burnt pine stumps are present throughout. Mostly flat terrain except for the far northeast corner of the stand. No management at this time, manage when the younger white pine matures.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Maple		12	Pole/Log	8		White Pine		High	Variable	Sapling	
Red Oak		34	Log/XLog	15	84	Red Pine		Trace	Variable	Sapling	
White Oak		8	Log/XLog	14		Black Cherry		Low	Variable	Tall Shrub	
Quaking Aspen		10	Pole/Log	8		Autumn Olive		Trace	< 5 feet	Tall Shrub	
White Pine		28	Pole/Log/XLog	8	53						
Red Pine		8	Log/XLog/Pole	13							
88	4123 - Red Oak	Sawtimber Well	24.5	107	81-110	N/A	Long, narrow stand of moderate quality oak that borders the Black River. There are some steep slopes directly adjacent to the river. Large XL-sized pine are common along these slopes, some cedar is present at the base of the slope adjacent to the river. Some large diameter oak (20"+ DBH) are mixed in throughout the stand. A few patches of younger planted red pine are present. Average ba/acre from 9 plots = 92 square feet.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Maple		15	Pole	6		White Pine		Medium	Variable	Sapling	
Red Oak		62	Log/XLog	15	107	Black Cherry		Low	Variable	Tall Shrub	
White Oak		10	Log/XLog	14							
White Pine		8	Pole/Log/XLog	8							
Red Pine		5	Pole/Log	8							



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments				
89	42290 - Natural Mixed Pine	Poletimber Well	22.5	36	111-140	N/A	Moderate quality stand dominated by young red and white pine. Some areas of dense stocking that almost look planted but no signs of old trenches nor are there any planting records for this area as it used to be under private ownership. The southeast part of the stand has a few areas of nice oak regeneration, this is also where most of the red maple is located. A small amount of XL-sized red and white pine are present, mostly along the far west edge which has a few dense clumps. Trace of balsam fir in the overstory. Average ba/acre from 6 plots = 117 square feet.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Bigtooth Aspen		4	Pole	7		Black Cherry		Low	Variable	Tall Shrub	
White Pine		52	Pole/Sap/Log	6	36	White Pine		High	>20 feet	Sapling	
Red Pine		27	Pole/Sap/Log	7		Red Pine		Trace	>20 feet	Sapling	
Quaking Aspen		10	Pole	6		Quaking Aspen		Low	>20 feet	Sapling	
Red Maple		5	Pole/Sapling	5		Red Maple		Low	>20 feet	Sapling	
White Oak		1	Pole/Sapling	5		White Oak		Low	Variable	Sapling	
Red Oak		1	Pole	6		Autumn Olive		Low	< 5 feet	Tall Shrub	
90	310 - Herbaceous Openland	Nonstocked	1.8		Unspecified	No		Old well site, plugged 1976. Currently not managed as a food plot but could be.			
Sub-Canopy Species		Density	Avg. Height	Size							
Black Cherry		Trace	< 5 feet	Tall Shrub							
91	42290 - Natural Mixed Pine	Poletimber Well	8.4	36	111-140	N/A	Dense stand dominated by white pine. A few scattered XL-sized white and red pine are present. Average ba/acre from 5 plots = 118 square feet. This stand was apparently harvested while under private ownership. Most of the stand sits on a moderately steep slope with a south aspect.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Bigtooth Aspen		10	Pole/Sap/Log	7		White Oak		Trace	Variable	Sapling	
White Pine		57	Pole/Sap/Log	6	36	Black Cherry		Low	Variable	Tall Shrub	
Red Pine		18	Log/Pole/XLog	12		White Pine		Medium	>20 feet	Sapling	
Quaking Aspen		10	Pole/Sapling	6		Quaking Aspen		Low	>20 feet	Sapling	
Red Maple		5	Pole	7		Bigtooth Aspen		Low	>20 feet	Sapling	
						Autumn Olive		Trace	< 5 feet	Tall Shrub	
						Red Maple		Trace	>20 feet	Sapling	
92	6120 - Lowland Cedar	Poletimber Well	10.4	120	111-140	N/A		Narrow stand with Hardwood Creek running through the length of the stand, eventually joining with the Black River. Diverse species mix although dominated by cedar. Most of the cedar is healthy and there are some very large cedar in a few areas (20"+ DBH). There used to be some black ash in the stand but it is now all dead. Average ba/acre from 6 plots = 132 square feet. I only looked at the portion of the stand north of Hardwood Creek. There are two old roads that cut through the slopes from the adjacent uplands, one leading down to the creek, the other at the east end of the stand, leading down to the Black River.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species			Density	Avg. Height	Size
Paper Birch		12	Pole/Log	8		White Spruce			Low	Variable	Sapling
Northern White Cedar		55	Pole/Log	8	120	Balsam Fir			Low	Variable	Sapling
Basswood		1	Log/XLog	15		Tag Alder			Medium	10 - 20 feet	Tall Shrub
Quaking Aspen		4	Log	13							
Balsam Poplar		7	Pole/Log	9							
White Pine		5	Log/XLog	15							
Hemlock		1	Log	10							
White Spruce		4	Log/Pole	11							
Balsam Fir		11	Pole	7							
93	6229 - Mixed lowland shrub	Nonstocked	7.9		Unspecified	No	Hardwood Creek flows through this stand as well as a tributary coming in from the south. Did not look at this stand other than a few spots along the edges. Some white pine and tamarack are coming in.				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																								
94	4123 - Red Oak	Sawtimber Well	24.8	85	81-110	N/A	Moderate quality oak stand. Some areas of lower stocking scattered throughout. White oak becomes more prevalent at the north end. A few veins of planted red pine (4-7" DBH) are present in the south half of the stand. Steep slopes along the entire east edge of the stand, leading down to a swamp. Trace amounts of XL-sized white and red pine, and balsam fir, paper birch, and black spruce poletimber trees along the swamp edge. Average ba/acre from 9 plots = 82 square feet. Browse pressure is too high in this area to recommend a regeneration harvest. Stands of similar composition in the surrounding area that were harvested in the past did not regenerate well.																																																								
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Red Maple</td> <td>26</td> <td>Pole</td> <td>7</td> <td></td> </tr> <tr> <td>Red Oak</td> <td>46</td> <td>Log/XLog</td> <td>15</td> <td>85</td> </tr> <tr> <td>White Oak</td> <td>14</td> <td>Log</td> <td>14</td> <td></td> </tr> <tr> <td>White Pine</td> <td>6</td> <td>Pole/Log</td> <td>8</td> <td></td> </tr> <tr> <td>Red Pine</td> <td>8</td> <td>Pole/Sapling</td> <td>6</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Red Maple	26	Pole	7		Red Oak	46	Log/XLog	15	85	White Oak	14	Log	14		White Pine	6	Pole/Log	8		Red Pine	8	Pole/Sapling	6		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Red Maple</td> <td>Low</td> <td>>20 feet</td> <td>Sapling</td> </tr> <tr> <td>White Pine</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Red Pine</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Red Maple	Low	>20 feet	Sapling	White Pine	Medium	Variable	Sapling	Red Pine	Low	Variable	Sapling														
Canopy Species	% Cover	Size Class	DBH	Age																																																											
Red Maple	26	Pole	7																																																												
Red Oak	46	Log/XLog	15	85																																																											
White Oak	14	Log	14																																																												
White Pine	6	Pole/Log	8																																																												
Red Pine	8	Pole/Sapling	6																																																												
Sub-Canopy Species	Density	Avg. Height	Size																																																												
Red Maple	Low	>20 feet	Sapling																																																												
White Pine	Medium	Variable	Sapling																																																												
Red Pine	Low	Variable	Sapling																																																												
95	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	14.1	78	81-110	N/A	Moderate quality mixed species stand. The northwest corner of the stand used to have a lot more jack pine but the majority of it has died. Quite a few suppressed red pine poletimber and saplings that are overtopped by aspen. A small amount of old, XL-sized red pine is present. The south edge of the stand slopes down to the lake. Average ba/acre from 9 plots = 86 square feet. In addition to the lake influence, the entrance road to the campground passes through the length of the stand, as does the High Country Pathway. No management.																																																								
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Red Maple</td> <td>6</td> <td>Pole</td> <td>7</td> <td></td> </tr> <tr> <td>Red Oak</td> <td>19</td> <td>Log/Pole</td> <td>14</td> <td></td> </tr> <tr> <td>Bigtooth Aspen</td> <td>36</td> <td>Log/Pole</td> <td>11</td> <td>78</td> </tr> <tr> <td>Red Pine</td> <td>23</td> <td>Pole/Log/XLog</td> <td>8</td> <td></td> </tr> <tr> <td>Jack Pine</td> <td>11</td> <td>Pole/Log</td> <td>9</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Red Maple	6	Pole	7		Red Oak	19	Log/Pole	14		Bigtooth Aspen	36	Log/Pole	11	78	Red Pine	23	Pole/Log/XLog	8		Jack Pine	11	Pole/Log	9		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Red Pine</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>White Pine</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Red Maple</td> <td>Trace</td> <td>>20 feet</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Red Pine	Medium	Variable	Sapling	White Pine	Low	Variable	Sapling	Red Maple	Trace	>20 feet	Sapling														
Canopy Species	% Cover	Size Class	DBH	Age																																																											
Red Maple	6	Pole	7																																																												
Red Oak	19	Log/Pole	14																																																												
Bigtooth Aspen	36	Log/Pole	11	78																																																											
Red Pine	23	Pole/Log/XLog	8																																																												
Jack Pine	11	Pole/Log	9																																																												
Sub-Canopy Species	Density	Avg. Height	Size																																																												
Red Pine	Medium	Variable	Sapling																																																												
White Pine	Low	Variable	Sapling																																																												
Red Maple	Trace	>20 feet	Sapling																																																												
96	42220 - Natural Jack Pine	Poletimber Poor	34.4	64	1-50	N/A	This stand was harvested in 1990 in the sale Town Corner East (#53-028-89), bought and cut by Gary Haskill. About 20 square feet of jack pine were left as a seed source, although these trees aren't uniform throughout and tend to be in clumps. Today these residual jack pine are in the 8-12" DBH range. Jack pine regenerated well in a few localized areas but is not well-stocked throughout the stand. This regeneration runs in the 3-6" DBH range. Average ba/acre from 8 plots = 26 square feet. Heavy deer and elk use, numerous game trails running throughout the stand.																																																								
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Red Oak</td> <td>4</td> <td>Log</td> <td>15</td> <td></td> </tr> <tr> <td>Jack Pine</td> <td>93</td> <td>Pole/Sap/Log</td> <td>6</td> <td>64</td> </tr> <tr> <td>White Pine</td> <td>1</td> <td>Pole</td> <td>7</td> <td></td> </tr> <tr> <td>Red Maple</td> <td>1</td> <td>Pole</td> <td>7</td> <td></td> </tr> <tr> <td>Bigtooth Aspen</td> <td>1</td> <td>Log/Pole</td> <td>12</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Red Oak	4	Log	15		Jack Pine	93	Pole/Sap/Log	6	64	White Pine	1	Pole	7		Red Maple	1	Pole	7		Bigtooth Aspen	1	Log/Pole	12		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Red Maple</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>White Pine</td> <td>Trace</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Red Pine</td> <td>Trace</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Jack Pine</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Black Cherry</td> <td>Medium</td> <td>5 - 10 feet</td> <td>Tall Shrub</td> </tr> <tr> <td>Red Oak</td> <td>Trace</td> <td>Variable</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Red Maple	Low	Variable	Sapling	White Pine	Trace	Variable	Sapling	Red Pine	Trace	Variable	Sapling	Jack Pine	Medium	Variable	Sapling	Black Cherry	Medium	5 - 10 feet	Tall Shrub	Red Oak	Trace	Variable	Sapling		
Canopy Species	% Cover	Size Class	DBH	Age																																																											
Red Oak	4	Log	15																																																												
Jack Pine	93	Pole/Sap/Log	6	64																																																											
White Pine	1	Pole	7																																																												
Red Maple	1	Pole	7																																																												
Bigtooth Aspen	1	Log/Pole	12																																																												
Sub-Canopy Species	Density	Avg. Height	Size																																																												
Red Maple	Low	Variable	Sapling																																																												
White Pine	Trace	Variable	Sapling																																																												
Red Pine	Trace	Variable	Sapling																																																												
Jack Pine	Medium	Variable	Sapling																																																												
Black Cherry	Medium	5 - 10 feet	Tall Shrub																																																												
Red Oak	Trace	Variable	Sapling																																																												
97	500 - Water	Nonstocked	15.1		Unspecified	No	Town Corner lake																																																								
98	42260 - Natural Pine, Mixed Deciduous	Sawtimber Medium	29.4	78	51-80	N/A	Town Corner State Forest Campground falls within this stand. Jack pine is heavier in the east half of the stand, with many mature stems, some of which are dead and falling over. The red/white pine component is most prevalent closer to the lake shore. A few small clones of BTA are present. Heavy red maple understory in some areas east of the campground. Average ba/acre from 10 plots = 57 square feet. No management, is campground.																																																								
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Red Maple</td> <td>15</td> <td>Pole</td> <td>7</td> <td></td> </tr> <tr> <td>Red Oak</td> <td>17</td> <td>Log/XLog</td> <td>15</td> <td></td> </tr> <tr> <td>Bigtooth Aspen</td> <td>7</td> <td>Log/Pole</td> <td>13</td> <td></td> </tr> <tr> <td>Jack Pine</td> <td>49</td> <td>Log/Pole</td> <td>10</td> <td>78</td> </tr> <tr> <td>Paper Birch</td> <td>1</td> <td>Pole</td> <td>8</td> <td></td> </tr> <tr> <td>Red Pine</td> <td>9</td> <td>Log/XLog/Pole</td> <td>14</td> <td></td> </tr> <tr> <td>White Pine</td> <td>2</td> <td>Log/XLog</td> <td>15</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Red Maple	15	Pole	7		Red Oak	17	Log/XLog	15		Bigtooth Aspen	7	Log/Pole	13		Jack Pine	49	Log/Pole	10	78	Paper Birch	1	Pole	8		Red Pine	9	Log/XLog/Pole	14		White Pine	2	Log/XLog	15		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Red Maple</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>White Pine</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Red Oak</td> <td>Trace</td> <td>>20 feet</td> <td>Sapling</td> </tr> <tr> <td>Black Cherry</td> <td>Low</td> <td>Variable</td> <td>Tall Shrub</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Red Maple	Medium	Variable	Sapling	White Pine	Low	Variable	Sapling	Red Oak	Trace	>20 feet	Sapling	Black Cherry	Low	Variable	Tall Shrub
Canopy Species	% Cover	Size Class	DBH	Age																																																											
Red Maple	15	Pole	7																																																												
Red Oak	17	Log/XLog	15																																																												
Bigtooth Aspen	7	Log/Pole	13																																																												
Jack Pine	49	Log/Pole	10	78																																																											
Paper Birch	1	Pole	8																																																												
Red Pine	9	Log/XLog/Pole	14																																																												
White Pine	2	Log/XLog	15																																																												
Sub-Canopy Species	Density	Avg. Height	Size																																																												
Red Maple	Medium	Variable	Sapling																																																												
White Pine	Low	Variable	Sapling																																																												
Red Oak	Trace	>20 feet	Sapling																																																												
Black Cherry	Low	Variable	Tall Shrub																																																												



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																						
99	4132 - Aspen, Jack Pine	Sapling Medium	16.9	31	Immature	N/A	This stand was harvested in 1990 in the sale Town Corner East (#53-028-89), bought and cut by Gary Haskill. About 20 square feet of jack pine was left as a seed source. Aspen and red maple are the predominant regeneration, with only a small amount of jack pine. The quaking aspen component does not look healthy. Most of the red maple have damaged stems from elk girdling. Regeneration is lacking in the southwest part of the stand and is more of a U type. Trace of white oak and white pine regeneration.																																																																						
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Red Maple</td> <td>33</td> <td>Sapling</td> <td>3</td> <td>31</td> </tr> <tr> <td>Bigtooth Aspen</td> <td>22</td> <td>Pole/Sapling</td> <td>5</td> <td>31</td> </tr> <tr> <td>Jack Pine</td> <td>21</td> <td>Log/Pole/Sap</td> <td>10</td> <td>64</td> </tr> <tr> <td>Red Oak</td> <td>4</td> <td>Sapling/Pole</td> <td>3</td> <td></td> </tr> <tr> <td>Quaking Aspen</td> <td>20</td> <td>Sapling/Pole</td> <td>3</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age		Red Maple	33	Sapling	3	31	Bigtooth Aspen	22	Pole/Sapling	5	31	Jack Pine	21	Log/Pole/Sap	10	64	Red Oak	4	Sapling/Pole	3		Quaking Aspen	20	Sapling/Pole	3		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Black Cherry</td> <td>Medium</td> <td>Variable</td> <td>Tall Shrub</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Black Cherry	Medium	Variable	Tall Shrub																																			
Canopy Species	% Cover	Size Class	DBH	Age																																																																									
Red Maple	33	Sapling	3	31																																																																									
Bigtooth Aspen	22	Pole/Sapling	5	31																																																																									
Jack Pine	21	Log/Pole/Sap	10	64																																																																									
Red Oak	4	Sapling/Pole	3																																																																										
Quaking Aspen	20	Sapling/Pole	3																																																																										
Sub-Canopy Species	Density	Avg. Height	Size																																																																										
Black Cherry	Medium	Variable	Tall Shrub																																																																										
100	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Medium	11.8	93	81-110	N/A	Diverse lowland stand that is adjacent to the Black River. The south/west half of the stand is heavier to cedar and has a component of very large diameter white pine. The north/east half of the stand transitions to more aspen and BAM, transitioning back to primarily conifers at the northern tip. This stand could probably be split into these two separate types if desired in the future. Trace of elm and red oak. Average ba/acre from 5 plots = 102 square feet. Stocking declines significantly as you get closer to the river. In 2018 a wildfire that started in the adjacent uplands carried down into a portion of the southern end of the stand.																																																																						
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Red Maple</td> <td>5</td> <td>Pole/Log</td> <td>8</td> <td></td> </tr> <tr> <td>Paper Birch</td> <td>7</td> <td>Pole</td> <td>8</td> <td></td> </tr> <tr> <td>Quaking Aspen</td> <td>16</td> <td>Log/Pole</td> <td>11</td> <td></td> </tr> <tr> <td>Balsam Poplar</td> <td>9</td> <td>Log/Pole</td> <td>12</td> <td></td> </tr> <tr> <td>White Spruce</td> <td>9</td> <td>Log/Pole</td> <td>10</td> <td></td> </tr> <tr> <td>Northern White Cedar</td> <td>38</td> <td>Pole/Log</td> <td>8</td> <td>93</td> </tr> <tr> <td>White Pine</td> <td>6</td> <td>XLog/Log</td> <td>21</td> <td></td> </tr> <tr> <td>Red Pine</td> <td>1</td> <td>Log</td> <td>15</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age		Red Maple	5	Pole/Log	8		Paper Birch	7	Pole	8		Quaking Aspen	16	Log/Pole	11		Balsam Poplar	9	Log/Pole	12		White Spruce	9	Log/Pole	10		Northern White Cedar	38	Pole/Log	8	93	White Pine	6	XLog/Log	21		Red Pine	1	Log	15		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Black Spruce</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Tag Alder</td> <td>Medium</td> <td>10 - 20 feet</td> <td>Tall Shrub</td> </tr> <tr> <td>White Spruce</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>White Pine</td> <td>Trace</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Balsam Poplar</td> <td>Trace</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Nannyberry</td> <td>Trace</td> <td>5 - 10 feet</td> <td>Tall Shrub</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Black Spruce	Low	Variable	Sapling	Tag Alder	Medium	10 - 20 feet	Tall Shrub	White Spruce	Low	Variable	Sapling	White Pine	Trace	Variable	Sapling	Balsam Poplar	Trace	Variable	Sapling	Nannyberry	Trace	5 - 10 feet	Tall Shrub
Canopy Species	% Cover	Size Class	DBH	Age																																																																									
Red Maple	5	Pole/Log	8																																																																										
Paper Birch	7	Pole	8																																																																										
Quaking Aspen	16	Log/Pole	11																																																																										
Balsam Poplar	9	Log/Pole	12																																																																										
White Spruce	9	Log/Pole	10																																																																										
Northern White Cedar	38	Pole/Log	8	93																																																																									
White Pine	6	XLog/Log	21																																																																										
Red Pine	1	Log	15																																																																										
Sub-Canopy Species	Density	Avg. Height	Size																																																																										
Black Spruce	Low	Variable	Sapling																																																																										
Tag Alder	Medium	10 - 20 feet	Tall Shrub																																																																										
White Spruce	Low	Variable	Sapling																																																																										
White Pine	Trace	Variable	Sapling																																																																										
Balsam Poplar	Trace	Variable	Sapling																																																																										
Nannyberry	Trace	5 - 10 feet	Tall Shrub																																																																										
101	42110 - Planted Red Pine	Poletimber Well	1.8	56	141-170	N/A	Small strip of red pine plantation. Most other species present are along the edges. This stand almost looks like it was thinned many years ago but there are no sale records. Average ba/acre from 3 plots = 163 square feet.																																																																						
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Red Maple</td> <td>5</td> <td>Pole/Log</td> <td>8</td> <td></td> </tr> <tr> <td>Red Oak</td> <td>2</td> <td>Log/XLog</td> <td>15</td> <td></td> </tr> <tr> <td>White Oak</td> <td>1</td> <td>Log</td> <td>13</td> <td></td> </tr> <tr> <td>Bigtooth Aspen</td> <td>3</td> <td>Pole</td> <td>8</td> <td></td> </tr> <tr> <td>Quaking Aspen</td> <td>1</td> <td>Pole</td> <td>8</td> <td></td> </tr> <tr> <td>Jack Pine</td> <td>2</td> <td>Pole/Log</td> <td>8</td> <td></td> </tr> <tr> <td>Red Pine</td> <td>86</td> <td>Pole/Log</td> <td>8</td> <td>56</td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age		Red Maple	5	Pole/Log	8		Red Oak	2	Log/XLog	15		White Oak	1	Log	13		Bigtooth Aspen	3	Pole	8		Quaking Aspen	1	Pole	8		Jack Pine	2	Pole/Log	8		Red Pine	86	Pole/Log	8	56	<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Black Cherry</td> <td>Low</td> <td>Variable</td> <td>Tall Shrub</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Black Cherry	Low	Variable	Tall Shrub																									
Canopy Species	% Cover	Size Class	DBH	Age																																																																									
Red Maple	5	Pole/Log	8																																																																										
Red Oak	2	Log/XLog	15																																																																										
White Oak	1	Log	13																																																																										
Bigtooth Aspen	3	Pole	8																																																																										
Quaking Aspen	1	Pole	8																																																																										
Jack Pine	2	Pole/Log	8																																																																										
Red Pine	86	Pole/Log	8	56																																																																									
Sub-Canopy Species	Density	Avg. Height	Size																																																																										
Black Cherry	Low	Variable	Tall Shrub																																																																										
102	42110 - Planted Red Pine	Poletimber Well	1.8	44	141-170	N/A	Dense, young pine plantation. Average ba/acre from 3 plots = 143 square feet. Rows are very tight, will have to do a take 2, leave 3 type row thinning when the stand is ready for a harvest.																																																																						
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Red Pine</td> <td>100</td> <td>Pole/Sapling</td> <td>5</td> <td>44</td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age		Red Pine	100	Pole/Sapling	5	44																																																																	
Canopy Species	% Cover	Size Class	DBH	Age																																																																									
Red Pine	100	Pole/Sapling	5	44																																																																									
							This is likely an old well site as there are large earthen piles along the edges and it appears the terrain was intentionally leveled.																																																																						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
103	42250 - Pine, Oak	Sapling Well	8.8	17	Immature	N/A	This stand was cut in 2004 in the sale Blue Lakes Oak Mix (#53-008-03), bought by BFP Management out of Gladstone. Small amount of residual red oak were left along with a couple hemlock, white oak, and white pine sawlog trees. Regeneration came back very well to white pine and white oak. White oak is abundant in many areas, however heavy deer and elk browse has kept a lot of the stems below 5 feet tall. There are a few areas, close to the road, that have grown above the browse level. This stand looks like how a seed-tree cut should work, if not for the browse.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Oak	1	Sapling	1		White Oak	Medium		< 5 feet	Seeding
White Oak	27	Sapling	2		Beech	Trace		< 5 feet	Seeding
Bigtooth Aspen	7	Sapling	2		Black Cherry	Medium		5 - 10 feet	Tall Shrub
White Pine	57	Sapling/Pole	4	17					
Red Oak	3	Log/XLog	16						
Red Pine	5	Sapling/Pole	4						
104	4199 - Other Mixed Upland Deciduous	Sawtimber Well	28.1	101	141-170	N/A	High quality mixed species stand that is dominated by exceptional red oak. Most of the stand sits on a northern hardwood site, although site quality starts to decline along the east/southeast stand edge and transitions to more of a red maple/oak type. Small clumps of hemlock are present throughout. A larger clump, along with large diameter white pine, is present at the south end of the stand. Average ba/acre from 12 plots = 143 square feet. A short, moderately steep slope with an east aspect runs north-south adjacent to the road. No past harvest history other than a possible TSI harvest that took place in 1976. Stand provides a nice visual buffer to the harvests that were completed to the east. Leave this stand unmanaged as it provides a small example of an undisturbed northern hardwood stand.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Maple	19	Pole/Log	8		White Pine	Low		Variable	Sapling
Red Oak	35	Log/XLog	15	101	Sugar Maple	Medium		>20 feet	Sapling
White Oak	3	Log/XLog	14		Beech	Trace		Variable	Sapling
Bigtooth Aspen	6	Log/XLog	17		Ironwood	Trace		Variable	Sapling
White Pine	6	Log/XLog	15		Hemlock	Low		>20 feet	Pole
Sugar Maple	18	Pole/Log	8						
Basswood	5	Log	13						
Beech	2	Log/Pole/XLog	14						
Hemlock	5	Log/Pole/XLog	12						
Paper Birch	1	Pole/Log	9						
105	42140 - Planted Mixed Pine	Poletimber Well	12.6	37	51-80	N/A		Planted red pine mixed in with patches of natural jack pine. The red pine was not planted very dense. A 2nd age class of older red pine (14-20" DBH) is present but not very common, except for a small inclusion at the southeast corner of the stand. Most areas of the stand are well-stocked except for the northern tip. Average ba/acre from 9 plots = 79 square feet. Evaluate for a thinning next entry if BAs have increased enough.	
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height		Size
Jack Pine	38	Pole	6		Red Pine	Low	Variable		Sapling
Red Pine	58	Pole	6	37	White Pine	Trace	Variable		Sapling
White Pine	1	Pole	6		Black Cherry	Trace	Variable		Tall Shrub
White Oak	2	Log	14						
Red Oak	1	Log/XLog	15						
106	310 - Herbaceous Openland	Nonstocked	1.4	0	Unspecified	No	Mostly open area, probably a former landing.		
Sub-Canopy Species	Density	Avg. Height	Size						
White Pine	Trace	Variable	Sapling						
Red Maple	Trace	>20 feet	Pole						
Black Cherry	Low	Variable	Tall Shrub						
Sweet Fern	Medium	< 5 feet	Tall Shrub						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments				
107	6225 - Bog	Nonstocked	1.2	0	Unspecified	No	Portion of a bog that extends north onto Black River Ranch. Quite a bit of jack pine in the stand, although a lot of looks in poor health.				
								Sub-Canopy Species	Density	Avg. Height	Size
								Jack Pine	Medium	Variable	Sapling
								Jack Pine	Low	< 5 feet	Seeding
								Jack Pine	Trace	Variable	Pole
								Leatherleaf	High	< 5 feet	Tall Shrub
Tamarack	Trace	>20 feet	Sapling								
108	320 - Upland Shrub	Nonstocked	6.8	0	Unspecified	4222 - Natural Jack Pine	Stand cut in summer of 2017 as part of Road 49 Jack Pine (#53-004-13-01, bought by Precision). Scattered clumps of jack pine seed trees were left. Not much scarification took place through chipping activities other than the landing and main skid trails. Lots of snags left. Per prescription, if natural regeneration fails, interplant jack pine or scarify the site further. 2021 update - Not much jack pine regeneration showing up due to the lack of scarification.				
								Sub-Canopy Species	Density	Avg. Height	Size
								White Oak	Low	>20 feet	Log
								Jack Pine	Trace	>20 feet	Pole
								Red Pine	Trace	>20 feet	Log
								Red Oak	Trace	>20 feet	Log
								White Pine	Low	Variable	Pole
								White Pine	Trace	>20 feet	Log
								Jack Pine	Low	< 5 feet	Seeding
								Red Pine	Low	>20 feet	Pole
								Bigtooth Aspen	Trace	>20 feet	Log
								White Pine	Trace	Variable	Sapling
								Red Pine	Trace	Variable	Sapling
109	310 - Herbaceous Openland	Nonstocked	1.0		Unspecified	No	Opening used as a parking area for fisherman and other recreational users.				
								Sub-Canopy Species	Density	Avg. Height	Size
								Red Maple	Trace	>20 feet	Pole
								Scotch Pine	Trace	Variable	Sapling
								Jack Pine	Trace	Variable	Sapling
Sweet Fern	High	< 5 feet	Tall Shrub								
110	500 - Water	Nonstocked	43.0		Unspecified	No	Walled Lake				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
111	320 - Upland Shrub	Nonstocked	9.7	0	Unspecified	No	This stand was cut in 2003 in the sale Lone Bull Blocks (#53-002-03), bought by Sidell Forest Products. All species were cut including oak. This was formerly an oak/aspens/maple stand with a small amount of pine. Deer and elk browse eliminated all deciduous species regeneration except for cherry which is abundant throughout the stand. White pine regenerated in a few areas but is open-grown and bushy. Gently rolling terrain.		
		Sub-Canopy Species	Density	Avg. Height	Size				
		White Pine	Low	Variable	Sapling				
		White Pine	Low	>20 feet	Pole				
		White Pine	Trace	>20 feet	Log				
		Red Pine	Trace	Variable	Sapling				
		Jack Pine	Low	Variable	Sapling				
		Jack Pine	Trace	< 5 feet	Seeding				
		Red Pine	Trace	< 5 feet	Seeding				
		White Oak	Trace	< 5 feet	Seeding				
		Red Oak	Trace	>20 feet	Log				
		Black Cherry	High	5 - 10 feet	Tall Shrub				
		Sweet Fern	Medium	< 5 feet	Tall Shrub				
112	6127 - Lowland Pine	Sawtimber Poor	2.6	81	1-50	N/A	Bog surrounding a small lake. Most trees are on the west side. The white pine appears stressed and is unhealthy. Most of the jack pine has died. A lot of leatherleaf at the ground level. Average ba/acre from 5 plots = 18 square feet. There is some beaver activity on the southwest side of the stand and they are taking down some of the alder.		
		Canopy Species	% Cover	Size Class	DBH	Age			
		Tamarack	12	Pole	7				
		Jack Pine	8	Pole/Log	9				
		White Pine	80	Log/Pole	13	81			
		Sub-Canopy Species	Density	Avg. Height	Size				
		White Pine	Low	Variable	Sapling				
		Tamarack	Trace	>20 feet	Sapling				
		Jack Pine	Trace	Variable	Sapling				
		Tag Alder	Medium	Variable	Tall Shrub				
		Michigan Holly	Trace	< 5 feet	Tall Shrub				
113	310 - Herbaceous Openland	Nonstocked	2.1	0	Unspecified	No	It looks like there may have been a structure or maintained opening in this stand at some point, as the ground appears to have been leveled off. There are a few patches of rye present. An old road passes west through the southern end of the stand, leading to Stewart Lake.		
		Sub-Canopy Species	Density	Avg. Height	Size				
		Red Maple	Low	>20 feet	Pole				
		Balsam Fir	Trace	>20 feet	Pole				
		Black Spruce	Trace	>20 feet	Pole				
		White Pine	Low	Variable	Sapling				
		Black Cherry	Low	Variable	Tall Shrub				
		Sweet Fern	High	< 5 feet	Tall Shrub				
114	500 - Water	Nonstocked	1.5		Unspecified	No	Small unnamed lake.		
115	42110 - Planted Red Pine	Poletimber Well	21.7	64	111-140	N/A	Thinned while under private ownership, I'm guessing about 10 years ago. A few areas of lower stocking that have other species and weren't planted very heavily. Trace of jack pine, paper birch, and white oak. Average ba/acre from 7 plots = 121 square feet. Should be ready for a second thinning next entry.		
		Canopy Species	% Cover	Size Class	DBH	Age			
		Bigtooth Aspen	1	Pole	5				
		Red Oak	7	Log/XLog	15				
		Red Maple	10	Pole/Log	8				
		White Pine	3	Pole/Log	8				
		Red Pine	79	Pole/Log	8	64			
		Sub-Canopy Species	Density	Avg. Height	Size				
		White Pine	Low	Variable	Sapling				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																							
116	6120 - Lowland Cedar	Sawtimber Well	51.8	122	141-170	N/A	Lowland cedar stand bordering the Black River. Varying quality of cedar throughout the stand, with some very high quality groves along the western edge adjacent to the upland. Most of the cedar is healthy with only a few areas of decline noted. Trace of red pine. Average ba/acre from 7 plots = 143 square feet.																																																																							
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr><td>Balsam Poplar</td><td>2</td><td>Pole/Log</td><td>9</td><td></td></tr> <tr><td>Paper Birch</td><td>2</td><td>Pole/Log</td><td>8</td><td></td></tr> <tr><td>Red Maple</td><td>1</td><td>Pole/Log</td><td>8</td><td></td></tr> <tr><td>White Pine</td><td>5</td><td>XLog/Log</td><td>18</td><td></td></tr> <tr><td>Quaking Aspen</td><td>2</td><td>Log</td><td>13</td><td></td></tr> <tr><td>Tamarack</td><td>1</td><td>Pole/Log</td><td>9</td><td></td></tr> <tr><td>White Spruce</td><td>4</td><td>Log/Pole</td><td>11</td><td></td></tr> <tr><td>Balsam Fir</td><td>9</td><td>Pole</td><td>7</td><td></td></tr> <tr><td>Black Spruce</td><td>11</td><td>Pole/Log</td><td>8</td><td></td></tr> <tr><td>Northern White Cedar</td><td>63</td><td>Log/Pole</td><td>10</td><td>122</td></tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Balsam Poplar	2	Pole/Log	9		Paper Birch	2	Pole/Log	8		Red Maple	1	Pole/Log	8		White Pine	5	XLog/Log	18		Quaking Aspen	2	Log	13		Tamarack	1	Pole/Log	9		White Spruce	4	Log/Pole	11		Balsam Fir	9	Pole	7		Black Spruce	11	Pole/Log	8		Northern White Cedar	63	Log/Pole	10	122	<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr><td>Balsam Fir</td><td>Low</td><td>Variable</td><td>Sapling</td></tr> <tr><td>Black Spruce</td><td>Trace</td><td>Variable</td><td>Sapling</td></tr> <tr><td>Tag Alder</td><td>Medium</td><td>10 - 20 feet</td><td>Tall Shrub</td></tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Balsam Fir	Low	Variable	Sapling	Black Spruce	Trace	Variable	Sapling	Tag Alder	Medium	10 - 20 feet	Tall Shrub	Rich conifer swamp element occurrence as verified by MNFI.			
Canopy Species	% Cover	Size Class	DBH	Age																																																																										
Balsam Poplar	2	Pole/Log	9																																																																											
Paper Birch	2	Pole/Log	8																																																																											
Red Maple	1	Pole/Log	8																																																																											
White Pine	5	XLog/Log	18																																																																											
Quaking Aspen	2	Log	13																																																																											
Tamarack	1	Pole/Log	9																																																																											
White Spruce	4	Log/Pole	11																																																																											
Balsam Fir	9	Pole	7																																																																											
Black Spruce	11	Pole/Log	8																																																																											
Northern White Cedar	63	Log/Pole	10	122																																																																										
Sub-Canopy Species	Density	Avg. Height	Size																																																																											
Balsam Fir	Low	Variable	Sapling																																																																											
Black Spruce	Trace	Variable	Sapling																																																																											
Tag Alder	Medium	10 - 20 feet	Tall Shrub																																																																											
117	6220 - Alder/willow	Nonstocked	4.2		Unspecified	No	Didn't cross Tubbs Creek to look at this stand. From imagery there looks to be some quaking aspen and BAM in the stand, along with a few cedar and lots of tag alder.																																																																							
118	2113 - Forage Crops	Nonstocked	0.5		Unspecified	No	Managed as a food plot while under private ownership.																																																																							
<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr><td>White Pine</td><td>Trace</td><td>Variable</td><td>Sapling</td></tr> <tr><td>Red Pine</td><td>Trace</td><td>>20 feet</td><td>Log</td></tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	White Pine	Trace	Variable	Sapling	Red Pine	Trace	>20 feet	Log																																																																	
Sub-Canopy Species	Density	Avg. Height	Size																																																																											
White Pine	Trace	Variable	Sapling																																																																											
Red Pine	Trace	>20 feet	Log																																																																											
119	2113 - Forage Crops	Nonstocked	0.9		Unspecified	No	Managed as a food plot while under private ownership but has not been managed for several years. Now it looks like there is quite a bit of St. John's wort and bluestem.																																																																							
<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr><td>St. Johns Wort</td><td>Low</td><td>Unspecified</td><td>Non-Wood</td></tr> <tr><td>Little Bluestem</td><td>Low</td><td>Unspecified</td><td>Non-Wood</td></tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	St. Johns Wort	Low	Unspecified	Non-Wood	Little Bluestem	Low	Unspecified	Non-Wood																																																																	
Sub-Canopy Species	Density	Avg. Height	Size																																																																											
St. Johns Wort	Low	Unspecified	Non-Wood																																																																											
Little Bluestem	Low	Unspecified	Non-Wood																																																																											
120	320 - Upland Shrub	Nonstocked	6.4	0	Unspecified	4222 - Natural Jack Pine	Stand cut in summer of 2017 as part of Road 49 Jack Pine (#53-004-13-01, bought by Precision). Scattered clumps of jack pine seed trees were left along with a few oak and few small clumps of planted red pine poletimber. This unit was not chipped so hardly any ground scarification took place. Some areas with a lot of slash and fallen over jack pine snags. Per prescription, if natural regeneration fails, interplant jack pine or scarify the site further. 2021 Update - Jack pine is not regenerating well. The middle of the stand has some clumps with more residual trees and there is some oak regeneration in this area but it is being heavily browsed. Regen survey results: jack pine 280 TPA (1' tall), black cherry 40 TPA (1' tall). Oak not counted since it isn't above browse height.																																																																							
<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr><td>White Oak</td><td>Trace</td><td>>20 feet</td><td>Log</td></tr> <tr><td>Red Oak</td><td>Trace</td><td>>20 feet</td><td>Log</td></tr> <tr><td>Jack Pine</td><td>Low</td><td>>20 feet</td><td>Pole</td></tr> <tr><td>Red Pine</td><td>Low</td><td>>20 feet</td><td>Pole</td></tr> <tr><td>White Pine</td><td>Trace</td><td>>20 feet</td><td>Pole</td></tr> <tr><td>White Pine</td><td>Low</td><td>5 - 10 feet</td><td>Sapling</td></tr> <tr><td>Jack Pine</td><td>Trace</td><td>5 - 10 feet</td><td>Sapling</td></tr> <tr><td>Jack Pine</td><td>Low</td><td>< 5 feet</td><td>Seeding</td></tr> <tr><td>Black Cherry</td><td>Low</td><td>< 5 feet</td><td>Tall Shrub</td></tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	White Oak	Trace	>20 feet	Log	Red Oak	Trace	>20 feet	Log	Jack Pine	Low	>20 feet	Pole	Red Pine	Low	>20 feet	Pole	White Pine	Trace	>20 feet	Pole	White Pine	Low	5 - 10 feet	Sapling	Jack Pine	Trace	5 - 10 feet	Sapling	Jack Pine	Low	< 5 feet	Seeding	Black Cherry	Low	< 5 feet	Tall Shrub																																					
Sub-Canopy Species	Density	Avg. Height	Size																																																																											
White Oak	Trace	>20 feet	Log																																																																											
Red Oak	Trace	>20 feet	Log																																																																											
Jack Pine	Low	>20 feet	Pole																																																																											
Red Pine	Low	>20 feet	Pole																																																																											
White Pine	Trace	>20 feet	Pole																																																																											
White Pine	Low	5 - 10 feet	Sapling																																																																											
Jack Pine	Trace	5 - 10 feet	Sapling																																																																											
Jack Pine	Low	< 5 feet	Seeding																																																																											
Black Cherry	Low	< 5 feet	Tall Shrub																																																																											
121	42220 - Natural Jack Pine	Sapling Poor	0.8	10	Immature	N/A	Old well site, plugged 1974. Once managed as a food plot but it is now filling in with jack pine. There is a lot of bluestem (or rye?) in the stand. The southeast part of the stand looks like an old borrow pit.																																																																							
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr><td>Red Pine</td><td>1</td><td>Sapling</td><td>1</td><td></td></tr> <tr><td>Jack Pine</td><td>99</td><td>Sapling</td><td>1</td><td>10</td></tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Red Pine	1	Sapling	1		Jack Pine	99	Sapling	1	10																																																														
Canopy Species	% Cover	Size Class	DBH	Age																																																																										
Red Pine	1	Sapling	1																																																																											
Jack Pine	99	Sapling	1	10																																																																										



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
122	2113 - Forage Crops	Nonstocked	1.1		Unspecified	No	Managed as a food plot while under private ownership. Now it looks like it has a lot of St. John's wort.	
		Sub-Canopy Species		Density	Avg. Height	Size		
		Red Maple		Low	>20 feet	Pole		
		White Pine		Trace	>20 feet	Pole		
		White Pine		Trace	Variable	Sapling		
		Black Cherry		Trace	Variable	Tall Shrub		
123	6111 - Lowland Balsam Poplar	Poletimber Poor	4.3	67	1-50	N/A	Poorly-stocked lowland popple stand bordering the Black River. There used to be a lot of black ash in the stand but it is all dead. Various sizes of balsam poplar. Trace of elm. Average ba/acre from 3 plots = 37 square feet.	
		Canopy Species		% Cover	Size Class	DBH		Age
		Northern White Cedar		5	Log	12		
		White Spruce		10	Pole/Log	8		
		Balsam Poplar		85	Pole/Log	8		67
		Sub-Canopy Species		Density	Avg. Height	Size		
		Balsam Poplar		Medium	Variable	Sapling		
		Balsam Fir		Trace	Variable	Sapling		
		White Spruce		Trace	Variable	Sapling		
		Tag Alder		High	10 - 20 feet	Tall Shrub		
124	42110 - Planted Red Pine	Poletimber Well	0.8	43	201+	N/A	Small red pine plantation that hasn't been thinned. Row widths are variable and very narrow in places. Average ba/acre from 2 plots = 250 square feet.	
		Canopy Species		% Cover	Size Class	DBH		Age
		Red Pine		100	Pole/Log	8		43
		Sub-Canopy Species		Density	Avg. Height	Size		
		Black Cherry		Trace	Variable	Tall Shrub		
125	2113 - Forage Crops	Nonstocked	0.6		Unspecified	No	Old well site, plugged 1987. Managed as a food plot while under private ownership. Some balsam poplar is starting to seed in along the west edge.	
		Sub-Canopy Species		Density	Avg. Height	Size		
		Balsam Poplar		Trace	< 5 feet	Seeding		
126	2113 - Forage Crops	Nonstocked	0.3		Unspecified	No	Managed as a food plot while under private ownership.	
		Sub-Canopy Species		Density	Avg. Height	Size		
		Red Oak		Low	>20 feet	Log		
		Red Maple		Trace	>20 feet	Log		
		White Pine		Trace	>20 feet	Log		
		White Pine		Low	Variable	Sapling		
		Jack Pine		Low	Variable	Sapling		
		Black Cherry		Low	Variable	Tall Shrub		
127	2113 - Forage Crops	Nonstocked	0.8		Unspecified	No	Managed as a food plot while under private ownership. Looks like it has a lot of St. John's wort and spotted knapweed.	
128	42120 - Planted Jack Pine	Sapling Well	4.2	19	Immature	N/A	This stand was cut in 1998 in the sale Collared Cow Pine (#53-010-93), bought by Tulgetska, cut by a whole-tree crew. All red pine, white pine, and oak were left although these species are rare in this stand. A few scattered clumps of older jack pine were left as well. This stand did not naturally regenerate well so it was trenched and directly seeded with jack pine (JD 740 with Sigma Seeder) in 2002 which was successful and resulted in a fully-stocked stand.	
		Canopy Species		% Cover	Size Class	DBH		Age
		Jack Pine		97	Sapling/Pole	3		19
		White Pine		3	Pole/Log	8		
129	110 - Low Intensity Urban	Nonstocked	1.1		Unspecified	No	Walled Lake lodge and pole barn to the east.	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments				
130	4319 - Mixed Upland Forest	Poletimber Well	11.2	53	51-80	N/A	Mixed species stand that is primarily upland but has several lowland areas mixed in throughout. This is at least a two-aged stand with a supercanopy of large pine and a younger age class of primarily red maple. The younger red maple is abundant in many places. Not sure of the harvest history of this stand as it was once under private ownership, but it looks like this may have had a partial harvest long ago as the older age class is not present in all areas. Some clumps of very large diameter white pine (25"+ DBH). Red pine is mostly in a single clump along the eastern edge of the stand. Trace of jack pine, white oak, and red oak. Average ba/acre from 6 plots = 78 square feet. An eagles nest is in a 28" white pine at the far southern end of the stand.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Northern White Cedar		1	Log/Pole	10		Red Maple		High	>20 feet	Sapling	
Tamarack		1	Pole	8		White Pine		Medium	Variable	Sapling	
Quaking Aspen		2	Log/Pole	11		Black Spruce		Low	Variable	Sapling	
Red Maple		41	Pole/Sap/Log	8	53	Tag Alder		Trace	10 - 20 feet	Tall Shrub	
Red Pine		8	Log/XLog	15							
Black Spruce		17	Pole/Log	8							
White Pine		30	Log/XLog/Pole	16	95						
131	42110 - Planted Red Pine	Poletimber Well	0.7	48	201+	N/A	This stand has not been thinned. Rows are narrow, will have to do a take 2, leave 3 row thin when the stand is prescribed. Average ba/acre from 2 plots = 210 square feet.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Jack Pine		2	Log/Pole	11		Black Cherry		Trace	Variable	Tall Shrub	
Red Pine		98	Pole/Sapling	6	48						
132	4130 - Aspen	Sapling Well	1.6	13	Immature	N/A	Cut while under private ownership, not sure of the exact date though. For whatever reason, browse did not impact this stand much in comparison to areas immediately to the east.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Pine		1	Sapling	3		White Pine		Low	Variable	Sapling	
White Pine		8	Sapling/Pole	3		Jack Pine		Trace	Variable	Sapling	
Quaking Aspen		91	Sapling	2	13	Black Cherry		Medium	5 - 10 feet	Tall Shrub	
133	42200 - Natural White Pine	Poletimber Medium	30.7	39	51-80	N/A	Cut while under private ownership, removing all aspen and jack pine. From imagery it looks like it was cut around 2014-15. All white pine, red pine, and oak were left. The white pine is decent quality, although most of it is still small. Trace amounts of XL-sized red pine and white pine. Not much aspen regeneration came back, except for some clumps of quaking aspen in the north/northeast part of the stand. A few clumps of bigtooth aspen in the arm that extends northwest but it has been hammered by browse. Average ba/acre from 7 plots = 61 square feet. Manage long term for white pine.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Maple		1	Pole	7		White Pine		Medium	Variable	Sapling	
White Oak		2	Log	13		Quaking Aspen		Low	Variable	Sapling	
Red Oak		4	Log/XLog	15		Jack Pine		Trace	>20 feet	Sapling	
Red Pine		15	Log/Pole/XLog	11		Bigtooth Aspen		Trace	5 - 10 feet	Sapling	
White Pine		78	Pole/Log	8	39	Black Cherry		Low	Variable	Tall Shrub	
134	42220 - Natural Jack Pine	Sapling Poor	10.6	7	Immature	N/A	Cut while under private ownership. From imagery it looks like it was cut around 2014-15. A scattered residual of small diameter white pine and red pine is present, along with a few white oak. Jack pine regeneration is best adjacent to the east side of the road but is lacking throughout most of the remainder of the stand. A heavy grass/sedge component is present throughout the stand, including some bluestem patches close to the road. Black cherry becomes heavy the further east you travel. There is also a little bit of quaking aspen in the east end, although it is being hit hard by browse and mostly dead. This stand is a toss-up and could be called anything from a U to a W4 to a J1.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
White Oak		3	Log	13		Black Cherry		High	5 - 10 feet	Tall Shrub	
Red Pine		10	Log/Pole	12		Autumn Olive		Trace	5 - 10 feet	Tall Shrub	
White Pine		25	Pole/Sap/Log	8	39						
Jack Pine		60	Sapling	1	7						
Quaking Aspen		2	Sapling	1							



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																																	
135	4311 - Pine, Aspen Mix	Poletimber Well	3.8	60	81-110	N/A	Thin strip of a stand that is primarily upland but has some areas of wetter ground along the east edge. Diverse species mix although aspen and mixed pine is dominant. Not well-stocked in all areas as some of the aspen is starting to senesce. Clumps of very large white pine at the north and south ends. Trace of cedar at the north end. Average ba/acre from 5 plots = 94 square feet. Remnants of an old wire fence from when this area was under private ownership is still present along the west edge of this stand.																																																																																	
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr><td>Red Pine</td><td>3</td><td>Log</td><td>14</td><td></td></tr> <tr><td>Balsam Fir</td><td>2</td><td>Pole</td><td>8</td><td></td></tr> <tr><td>Bigtooth Aspen</td><td>1</td><td>Log</td><td>11</td><td></td></tr> <tr><td>White Oak</td><td>1</td><td>Pole/Log</td><td>9</td><td></td></tr> <tr><td>Red Maple</td><td>5</td><td>Pole/Log</td><td>8</td><td></td></tr> <tr><td>White Spruce</td><td>2</td><td>Log/Pole</td><td>12</td><td></td></tr> <tr><td>Black Spruce</td><td>6</td><td>Pole/Log</td><td>8</td><td></td></tr> <tr><td>Balsam Poplar</td><td>1</td><td>Pole/Log</td><td>8</td><td></td></tr> <tr><td>White Pine</td><td>16</td><td>Pole/Log/XLog</td><td>8</td><td></td></tr> <tr><td>Jack Pine</td><td>13</td><td>Pole/Log</td><td>9</td><td></td></tr> <tr><td>Quaking Aspen</td><td>50</td><td>Pole/Log</td><td>9</td><td>60</td></tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age		Red Pine	3	Log	14		Balsam Fir	2	Pole	8		Bigtooth Aspen	1	Log	11		White Oak	1	Pole/Log	9		Red Maple	5	Pole/Log	8		White Spruce	2	Log/Pole	12		Black Spruce	6	Pole/Log	8		Balsam Poplar	1	Pole/Log	8		White Pine	16	Pole/Log/XLog	8		Jack Pine	13	Pole/Log	9		Quaking Aspen	50	Pole/Log	9	60	<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr><td>White Pine</td><td>Low</td><td>Variable</td><td>Sapling</td></tr> <tr><td>Red Maple</td><td>Trace</td><td>Variable</td><td>Sapling</td></tr> <tr><td>Black Spruce</td><td>Trace</td><td>Variable</td><td>Sapling</td></tr> <tr><td>Black Cherry</td><td>Medium</td><td>Variable</td><td>Tall Shrub</td></tr> <tr><td>Tag Alder</td><td>Low</td><td>10 - 20 feet</td><td>Tall Shrub</td></tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	White Pine	Low	Variable	Sapling	Red Maple	Trace	Variable	Sapling	Black Spruce	Trace	Variable	Sapling	Black Cherry	Medium	Variable	Tall Shrub	Tag Alder	Low	10 - 20 feet	Tall Shrub
Canopy Species	% Cover	Size Class	DBH	Age																																																																																				
Red Pine	3	Log	14																																																																																					
Balsam Fir	2	Pole	8																																																																																					
Bigtooth Aspen	1	Log	11																																																																																					
White Oak	1	Pole/Log	9																																																																																					
Red Maple	5	Pole/Log	8																																																																																					
White Spruce	2	Log/Pole	12																																																																																					
Black Spruce	6	Pole/Log	8																																																																																					
Balsam Poplar	1	Pole/Log	8																																																																																					
White Pine	16	Pole/Log/XLog	8																																																																																					
Jack Pine	13	Pole/Log	9																																																																																					
Quaking Aspen	50	Pole/Log	9	60																																																																																				
Sub-Canopy Species	Density	Avg. Height	Size																																																																																					
White Pine	Low	Variable	Sapling																																																																																					
Red Maple	Trace	Variable	Sapling																																																																																					
Black Spruce	Trace	Variable	Sapling																																																																																					
Black Cherry	Medium	Variable	Tall Shrub																																																																																					
Tag Alder	Low	10 - 20 feet	Tall Shrub																																																																																					
136	6229 - Mixed lowland shrub	Nonstocked	3.7		Unspecified	No	Very wet stand, I was walking on ice throughout most of it. This appears to be a drainage originating out of stand 137 to the south, and flowing north into stand 159 where it eventually dumps into stand 93 and joins with Hardwood Creek. Thick alder in most places. Scattered trees throughout. A couple of larger elm are present but they appear to be dead.																																																																																	
<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr><td>Quaking Aspen</td><td>Low</td><td>>20 feet</td><td>Log</td></tr> <tr><td>Northern White Cedar</td><td>Trace</td><td>>20 feet</td><td>Pole</td></tr> <tr><td>Tamarack</td><td>Trace</td><td>Unspecified</td><td>Pole</td></tr> <tr><td>Red Maple</td><td>Trace</td><td>>20 feet</td><td>Pole</td></tr> <tr><td>Black Spruce</td><td>Trace</td><td>>20 feet</td><td>Pole</td></tr> <tr><td>Balsam Poplar</td><td>Low</td><td>Variable</td><td>Sapling</td></tr> <tr><td>Black Spruce</td><td>Trace</td><td>Variable</td><td>Sapling</td></tr> <tr><td>Tag Alder</td><td>Full</td><td>5 - 10 feet</td><td>Tall Shrub</td></tr> <tr><td>American Elm</td><td>Trace</td><td>Variable</td><td>Sapling</td></tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Quaking Aspen		Low	>20 feet	Log	Northern White Cedar	Trace	>20 feet	Pole	Tamarack	Trace	Unspecified	Pole	Red Maple	Trace	>20 feet	Pole	Black Spruce	Trace	>20 feet	Pole	Balsam Poplar	Low	Variable	Sapling	Black Spruce	Trace	Variable	Sapling	Tag Alder	Full	5 - 10 feet	Tall Shrub	American Elm	Trace	Variable	Sapling																																														
Sub-Canopy Species	Density	Avg. Height	Size																																																																																					
Quaking Aspen	Low	>20 feet	Log																																																																																					
Northern White Cedar	Trace	>20 feet	Pole																																																																																					
Tamarack	Trace	Unspecified	Pole																																																																																					
Red Maple	Trace	>20 feet	Pole																																																																																					
Black Spruce	Trace	>20 feet	Pole																																																																																					
Balsam Poplar	Low	Variable	Sapling																																																																																					
Black Spruce	Trace	Variable	Sapling																																																																																					
Tag Alder	Full	5 - 10 feet	Tall Shrub																																																																																					
American Elm	Trace	Variable	Sapling																																																																																					
137	6120 - Lowland Cedar	Poletimber Well	11.8	101	141-170	N/A	Moderate quality lowland conifer stand. The cedar is mostly healthy with only a few areas of decline noted. Large component of tamarack mixed in throughout, especially in the south half of the stand. Average ba/acre from 5 plots = 154 square feet. Wet stand, I was walking on ice in many areas of the stand.																																																																																	
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr><td>Paper Birch</td><td>2</td><td>Pole/Log</td><td>8</td><td></td></tr> <tr><td>Balsam Poplar</td><td>1</td><td>Pole/Log</td><td>8</td><td></td></tr> <tr><td>Quaking Aspen</td><td>1</td><td>Log</td><td>13</td><td></td></tr> <tr><td>Black Spruce</td><td>10</td><td>Pole</td><td>6</td><td></td></tr> <tr><td>Tamarack</td><td>36</td><td>Pole/Log</td><td>8</td><td></td></tr> <tr><td>Northern White Cedar</td><td>50</td><td>Pole/Log</td><td>8</td><td>101</td></tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age		Paper Birch	2	Pole/Log	8		Balsam Poplar	1	Pole/Log	8		Quaking Aspen	1	Log	13		Black Spruce	10	Pole	6		Tamarack	36	Pole/Log	8		Northern White Cedar	50	Pole/Log	8	101	<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr><td>Black Spruce</td><td>Low</td><td>Variable</td><td>Sapling</td></tr> <tr><td>Tag Alder</td><td>Medium</td><td>Variable</td><td>Tall Shrub</td></tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Black Spruce	Low	Variable	Sapling	Tag Alder	Medium	Variable	Tall Shrub																																					
Canopy Species	% Cover	Size Class	DBH	Age																																																																																				
Paper Birch	2	Pole/Log	8																																																																																					
Balsam Poplar	1	Pole/Log	8																																																																																					
Quaking Aspen	1	Log	13																																																																																					
Black Spruce	10	Pole	6																																																																																					
Tamarack	36	Pole/Log	8																																																																																					
Northern White Cedar	50	Pole/Log	8	101																																																																																				
Sub-Canopy Species	Density	Avg. Height	Size																																																																																					
Black Spruce	Low	Variable	Sapling																																																																																					
Tag Alder	Medium	Variable	Tall Shrub																																																																																					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																
138	6129 - Mixed Coniferous Lowland Forest	Poletimber Medium	12.3	101	81-110	N/A	Wet, poor quality lowland conifer stand. Much of the cedar is in decline and close to death. Better quality trees and a more diverse species mix can be found in the south running finger of the stand. Average ba/acre from 4 plots = 88 square feet.																																																																
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr><td>Paper Birch</td><td>2</td><td>Pole/Log</td><td>9</td><td></td></tr> <tr><td>Red Maple</td><td>10</td><td>Pole/Log</td><td>8</td><td></td></tr> <tr><td>White Pine</td><td>5</td><td>Pole/Log</td><td>8</td><td></td></tr> <tr><td>Tamarack</td><td>5</td><td>Pole/Log</td><td>8</td><td></td></tr> <tr><td>Balsam Fir</td><td>5</td><td>Pole</td><td>7</td><td></td></tr> <tr><td>Black Spruce</td><td>28</td><td>Pole</td><td>6</td><td></td></tr> <tr><td>Northern White Cedar</td><td>45</td><td>Pole/Log</td><td>8</td><td>101</td></tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Paper Birch	2	Pole/Log	9		Red Maple	10	Pole/Log	8		White Pine	5	Pole/Log	8		Tamarack	5	Pole/Log	8		Balsam Fir	5	Pole	7		Black Spruce	28	Pole	6		Northern White Cedar	45	Pole/Log	8	101	<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr><td>Black Spruce</td><td>Low</td><td>Variable</td><td>Sapling</td></tr> <tr><td>Balsam Fir</td><td>Trace</td><td>Variable</td><td>Sapling</td></tr> <tr><td>Red Maple</td><td>Trace</td><td>Variable</td><td>Sapling</td></tr> <tr><td>Tamarack</td><td>Trace</td><td>Variable</td><td>Sapling</td></tr> <tr><td>Tag Alder</td><td>Medium</td><td>Variable</td><td>Tall Shrub</td></tr> <tr><td>Michigan Holly</td><td>Medium</td><td>5 - 10 feet</td><td>Tall Shrub</td></tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Black Spruce	Low	Variable	Sapling	Balsam Fir	Trace	Variable	Sapling	Red Maple	Trace	Variable	Sapling	Tamarack	Trace	Variable	Sapling	Tag Alder	Medium	Variable	Tall Shrub	Michigan Holly	Medium	5 - 10 feet	Tall Shrub
Canopy Species	% Cover	Size Class	DBH	Age																																																																			
Paper Birch	2	Pole/Log	9																																																																				
Red Maple	10	Pole/Log	8																																																																				
White Pine	5	Pole/Log	8																																																																				
Tamarack	5	Pole/Log	8																																																																				
Balsam Fir	5	Pole	7																																																																				
Black Spruce	28	Pole	6																																																																				
Northern White Cedar	45	Pole/Log	8	101																																																																			
Sub-Canopy Species	Density	Avg. Height	Size																																																																				
Black Spruce	Low	Variable	Sapling																																																																				
Balsam Fir	Trace	Variable	Sapling																																																																				
Red Maple	Trace	Variable	Sapling																																																																				
Tamarack	Trace	Variable	Sapling																																																																				
Tag Alder	Medium	Variable	Tall Shrub																																																																				
Michigan Holly	Medium	5 - 10 feet	Tall Shrub																																																																				
139	42201 - Natural White Pine, Mixed Deciduous	Poletimber Poor	3.3	47	1-50	N/A	Very low quality, poorly-stocked stand that resembles a U type in many areas. The white pine is short, limby, and open-grown. The quaking aspen looks unhealthy and close to death. The bigtooth aspen component is along the western edge. Average ba/acre from 3 plots = 40 square feet. No sale records but this looks like a failed regeneration from a previous harvest that must have taken place while this area was under private ownership.																																																																
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr><td>Red Maple</td><td>11</td><td>Pole</td><td>6</td><td></td></tr> <tr><td>Red Oak</td><td>3</td><td>Log</td><td>13</td><td></td></tr> <tr><td>White Oak</td><td>1</td><td>Log</td><td>13</td><td></td></tr> <tr><td>Bigtooth Aspen</td><td>8</td><td>Log/Pole</td><td>11</td><td></td></tr> <tr><td>Red Pine</td><td>3</td><td>Pole</td><td>7</td><td></td></tr> <tr><td>Quaking Aspen</td><td>14</td><td>Pole</td><td>7</td><td></td></tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Red Maple	11	Pole	6		Red Oak	3	Log	13		White Oak	1	Log	13		Bigtooth Aspen	8	Log/Pole	11		Red Pine	3	Pole	7		Quaking Aspen	14	Pole	7		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr><td>White Pine</td><td>Medium</td><td>Variable</td><td>Sapling</td></tr> <tr><td>Black Cherry</td><td>Medium</td><td>Variable</td><td>Tall Shrub</td></tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	White Pine	Medium	Variable	Sapling	Black Cherry	Medium	Variable	Tall Shrub																					
Canopy Species	% Cover	Size Class	DBH	Age																																																																			
Red Maple	11	Pole	6																																																																				
Red Oak	3	Log	13																																																																				
White Oak	1	Log	13																																																																				
Bigtooth Aspen	8	Log/Pole	11																																																																				
Red Pine	3	Pole	7																																																																				
Quaking Aspen	14	Pole	7																																																																				
Sub-Canopy Species	Density	Avg. Height	Size																																																																				
White Pine	Medium	Variable	Sapling																																																																				
Black Cherry	Medium	Variable	Tall Shrub																																																																				
140	42290 - Natural Mixed Pine	Poletimber Medium	12.5	60	51-80	N/A	Moderate quality mixed species stand. It looks like there was a partial harvest in the stand while under private ownership. I'm guessing all aspen and jack pine were removed, although there is a small clump of jack pine at the far south end of the stand that was left. A variety of white pine sizes are present, including some very large XL-sized trees (25"+ DBH). A few small clumps of bigtooth aspen regeneration can be found close to the road. Trace of white oak. Average ba/acre from 7 plots = 77 square feet. Rolling terrain. The ground starts to get wetter the farther north you go.																																																																
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr><td>Bigtooth Aspen</td><td>1</td><td>Pole/Log</td><td>8</td><td></td></tr> <tr><td>Jack Pine</td><td>2</td><td>Pole/Log</td><td>8</td><td></td></tr> <tr><td>Paper Birch</td><td>1</td><td>Log/Pole</td><td>10</td><td></td></tr> <tr><td>Red Oak</td><td>6</td><td>Log/XLog</td><td>15</td><td></td></tr> <tr><td>Black Spruce</td><td>4</td><td>Pole/Log</td><td>8</td><td></td></tr> <tr><td>Red Pine</td><td>13</td><td>Log/XLog</td><td>15</td><td></td></tr> <tr><td>Red Maple</td><td>16</td><td>Pole/Log</td><td>9</td><td></td></tr> <tr><td>White Pine</td><td>57</td><td>Pole/Log/XLog</td><td>8</td><td>60</td></tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Bigtooth Aspen	1	Pole/Log	8		Jack Pine	2	Pole/Log	8		Paper Birch	1	Log/Pole	10		Red Oak	6	Log/XLog	15		Black Spruce	4	Pole/Log	8		Red Pine	13	Log/XLog	15		Red Maple	16	Pole/Log	9		White Pine	57	Pole/Log/XLog	8	60	<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr><td>White Pine</td><td>Medium</td><td>Variable</td><td>Sapling</td></tr> <tr><td>Bigtooth Aspen</td><td>Low</td><td>>20 feet</td><td>Sapling</td></tr> <tr><td>Red Maple</td><td>Low</td><td>Variable</td><td>Sapling</td></tr> <tr><td>Black Spruce</td><td>Trace</td><td>Variable</td><td>Sapling</td></tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	White Pine	Medium	Variable	Sapling	Bigtooth Aspen	Low	>20 feet	Sapling	Red Maple	Low	Variable	Sapling	Black Spruce	Trace	Variable	Sapling			
Canopy Species	% Cover	Size Class	DBH	Age																																																																			
Bigtooth Aspen	1	Pole/Log	8																																																																				
Jack Pine	2	Pole/Log	8																																																																				
Paper Birch	1	Log/Pole	10																																																																				
Red Oak	6	Log/XLog	15																																																																				
Black Spruce	4	Pole/Log	8																																																																				
Red Pine	13	Log/XLog	15																																																																				
Red Maple	16	Pole/Log	9																																																																				
White Pine	57	Pole/Log/XLog	8	60																																																																			
Sub-Canopy Species	Density	Avg. Height	Size																																																																				
White Pine	Medium	Variable	Sapling																																																																				
Bigtooth Aspen	Low	>20 feet	Sapling																																																																				
Red Maple	Low	Variable	Sapling																																																																				
Black Spruce	Trace	Variable	Sapling																																																																				
141	2113 - Forage Crops	Nonstocked	0.2		Unspecified	No	Managed as a food plot while under private ownership.																																																																
		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr><td>Red Pine</td><td>Low</td><td>>20 feet</td><td>Log</td></tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Red Pine	Low	>20 feet	Log																																																												
Sub-Canopy Species	Density	Avg. Height	Size																																																																				
Red Pine	Low	>20 feet	Log																																																																				
142	42220 - Natural Jack Pine	Sapling Well	11.3	21	Immature	N/A	Harvested while under private ownership but not sure of the exact date so the age is an estimate. Jack pine regenerated well except for some scattered areas of lower stocking.																																																																
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr><td>Red Maple</td><td>2</td><td>Log/Pole</td><td>11</td><td></td></tr> <tr><td>Red Oak</td><td>3</td><td>Log/XLog</td><td>15</td><td></td></tr> <tr><td>Red Pine</td><td>3</td><td>Log/XLog</td><td>14</td><td></td></tr> <tr><td>White Pine</td><td>10</td><td>Pole/Sap/Log</td><td>6</td><td></td></tr> <tr><td>Jack Pine</td><td>82</td><td>Sapling</td><td>3</td><td>21</td></tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Red Maple	2	Log/Pole	11		Red Oak	3	Log/XLog	15		Red Pine	3	Log/XLog	14		White Pine	10	Pole/Sap/Log	6		Jack Pine	82	Sapling	3	21	<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr><td>Black Cherry</td><td>Medium</td><td>5 - 10 feet</td><td>Tall Shrub</td></tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Black Cherry	Medium	5 - 10 feet	Tall Shrub																														
Canopy Species	% Cover	Size Class	DBH	Age																																																																			
Red Maple	2	Log/Pole	11																																																																				
Red Oak	3	Log/XLog	15																																																																				
Red Pine	3	Log/XLog	14																																																																				
White Pine	10	Pole/Sap/Log	6																																																																				
Jack Pine	82	Sapling	3	21																																																																			
Sub-Canopy Species	Density	Avg. Height	Size																																																																				
Black Cherry	Medium	5 - 10 feet	Tall Shrub																																																																				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																													
143	42220 - Natural Jack Pine	Sapling Poor	21.7	13	Immature	N/A	Cut while under private ownership, not sure of the exact year though. Regeneration did not come back well and is poorly-stocked throughout, except for a few localized areas of better stocking. Lots of cherry throughout. Trace of red oak and red maple saplings. Flat terrain.																																																													
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Red Pine</td> <td>1</td> <td>Log/XLog/Pole</td> <td>15</td> <td></td> </tr> <tr> <td>White Pine</td> <td>8</td> <td>Pole/Log</td> <td>8</td> <td></td> </tr> <tr> <td>Jack Pine</td> <td>91</td> <td>Sapling</td> <td>1</td> <td>13</td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age		Red Pine	1	Log/XLog/Pole	15		White Pine	8	Pole/Log	8		Jack Pine	91	Sapling	1	13	<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Black Cherry</td> <td>High</td> <td>Variable</td> <td>Tall Shrub</td> </tr> <tr> <td>Red Pine</td> <td>Trace</td> <td>< 5 feet</td> <td>Seeding</td> </tr> <tr> <td>Jack Pine</td> <td>Trace</td> <td>< 5 feet</td> <td>Seeding</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Black Cherry	High	Variable	Tall Shrub	Red Pine	Trace	< 5 feet	Seeding	Jack Pine	Trace	< 5 feet	Seeding																												
Canopy Species	% Cover	Size Class	DBH	Age																																																																
Red Pine	1	Log/XLog/Pole	15																																																																	
White Pine	8	Pole/Log	8																																																																	
Jack Pine	91	Sapling	1	13																																																																
Sub-Canopy Species	Density	Avg. Height	Size																																																																	
Black Cherry	High	Variable	Tall Shrub																																																																	
Red Pine	Trace	< 5 feet	Seeding																																																																	
Jack Pine	Trace	< 5 feet	Seeding																																																																	
144	42290 - Natural Mixed Pine	Sawtimber Poor	14.1	48	1-50	N/A	It looks like all jack pine and aspen were cut from this stand while under private ownership. Not sure of the exact harvest date so the second age class is an estimate. A variety of sizes of pine are present, especially the white pine, which ranges anywhere from 1-11" DBH. Red pine tends to be lumped into two separate age classes; a younger class in the 7-12" DBH range and a supercanopy of 15-20" trees. The residual pine tends to be heavier along the east half of the stand. Aspen regenerated in some areas but has been hammered by elk browse. There are clumps at the NW and SE corners that look like they may make it past the browse but that's about it. There are some areas of nice advanced pine regeneration and may result in this stand being close to fully-stocked when it matures. Average ba/acre from 6 plots = 43 square feet.																																																													
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Red Oak</td> <td>3</td> <td>Log/XLog</td> <td>15</td> <td></td> </tr> <tr> <td>White Pine</td> <td>47</td> <td>Pole/Log</td> <td>8</td> <td></td> </tr> <tr> <td>Red Pine</td> <td>50</td> <td>Log/Pole/XLog</td> <td>11</td> <td>48</td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age		Red Oak	3	Log/XLog	15		White Pine	47	Pole/Log	8		Red Pine	50	Log/Pole/XLog	11	48	<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>White Pine</td> <td>High</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Quaking Aspen</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Red Pine</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Jack Pine</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Black Cherry</td> <td>Medium</td> <td>Variable</td> <td>Tall Shrub</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	White Pine	High	Variable	Sapling	Quaking Aspen	Medium	Variable	Sapling	Red Pine	Low	Variable	Sapling	Jack Pine	Low	Variable	Sapling	Black Cherry	Medium	Variable	Tall Shrub																				
Canopy Species	% Cover	Size Class	DBH	Age																																																																
Red Oak	3	Log/XLog	15																																																																	
White Pine	47	Pole/Log	8																																																																	
Red Pine	50	Log/Pole/XLog	11	48																																																																
Sub-Canopy Species	Density	Avg. Height	Size																																																																	
White Pine	High	Variable	Sapling																																																																	
Quaking Aspen	Medium	Variable	Sapling																																																																	
Red Pine	Low	Variable	Sapling																																																																	
Jack Pine	Low	Variable	Sapling																																																																	
Black Cherry	Medium	Variable	Tall Shrub																																																																	
145	42260 - Natural Pine, Mixed Deciduous	Poletimber Medium	5.9	48	51-80	N/A	Portions of the south half of this stand had a partial harvest while under private ownership. It looks like all aspen and jack pine were cut. The west running finger of the stand was not cut and still has some aspen and jack pine. Pockets of planted red pine are present mostly in the south half of the stand. The SE corner of the stand is on a slope leading down to the swamp and was not harvested. Trace of white spruce and paper birch. Average ba/acre from 6 plots = 75 square feet.																																																													
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Red Oak</td> <td>10</td> <td>Log/XLog</td> <td>15</td> <td></td> </tr> <tr> <td>Quaking Aspen</td> <td>16</td> <td>Pole/Log</td> <td>8</td> <td></td> </tr> <tr> <td>Red Maple</td> <td>9</td> <td>Pole/Log</td> <td>9</td> <td></td> </tr> <tr> <td>Jack Pine</td> <td>14</td> <td>Pole</td> <td>8</td> <td></td> </tr> <tr> <td>White Pine</td> <td>2</td> <td>Pole</td> <td>7</td> <td></td> </tr> <tr> <td>Red Pine</td> <td>49</td> <td>Pole/Log</td> <td>8</td> <td>48</td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age		Red Oak	10	Log/XLog	15		Quaking Aspen	16	Pole/Log	8		Red Maple	9	Pole/Log	9		Jack Pine	14	Pole	8		White Pine	2	Pole	7		Red Pine	49	Pole/Log	8	48	<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>White Pine</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Jack Pine</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Black Cherry</td> <td>Medium</td> <td>Variable</td> <td>Tall Shrub</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	White Pine	Medium	Variable	Sapling	Jack Pine	Low	Variable	Sapling	Black Cherry	Medium	Variable	Tall Shrub													
Canopy Species	% Cover	Size Class	DBH	Age																																																																
Red Oak	10	Log/XLog	15																																																																	
Quaking Aspen	16	Pole/Log	8																																																																	
Red Maple	9	Pole/Log	9																																																																	
Jack Pine	14	Pole	8																																																																	
White Pine	2	Pole	7																																																																	
Red Pine	49	Pole/Log	8	48																																																																
Sub-Canopy Species	Density	Avg. Height	Size																																																																	
White Pine	Medium	Variable	Sapling																																																																	
Jack Pine	Low	Variable	Sapling																																																																	
Black Cherry	Medium	Variable	Tall Shrub																																																																	
146	42220 - Natural Jack Pine	Sapling Poor	32.1	11	1-50	N/A	Cut while under private ownership, looks like everything was cut except for some scattered oak and pine. They also left a lot of poor quality red maple poletimber for some reason. Jack pine regenerated only moderately well. According to communications with the previous landowners, they planted about 6,000 red pine and several hundred white spruce in the east half of the stand. The planted stock looks good and will eventually result in a well-stocked mixed conifer stand in the east half. Bigtooth aspen tried to sprout back in many areas but was all killed by elk browse.																																																													
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>White Pine</td> <td>3</td> <td>Pole/Log</td> <td>8</td> <td></td> </tr> <tr> <td>Red Oak</td> <td>6</td> <td>Log/XLog</td> <td>15</td> <td></td> </tr> <tr> <td>Red Maple</td> <td>10</td> <td>Pole</td> <td>7</td> <td></td> </tr> <tr> <td>White Spruce</td> <td>5</td> <td>Sapling</td> <td>1</td> <td></td> </tr> <tr> <td>Red Pine</td> <td>10</td> <td>Sapling</td> <td>1</td> <td></td> </tr> <tr> <td>Red Pine</td> <td>2</td> <td>Log</td> <td>14</td> <td></td> </tr> <tr> <td>Jack Pine</td> <td>64</td> <td>Sapling</td> <td>1</td> <td>11</td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age		White Pine	3	Pole/Log	8		Red Oak	6	Log/XLog	15		Red Maple	10	Pole	7		White Spruce	5	Sapling	1		Red Pine	10	Sapling	1		Red Pine	2	Log	14		Jack Pine	64	Sapling	1	11	<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Jack Pine</td> <td>Low</td> <td>< 5 feet</td> <td>Seeding</td> </tr> <tr> <td>Red Pine</td> <td>Low</td> <td>< 5 feet</td> <td>Seeding</td> </tr> <tr> <td>White Spruce</td> <td>Low</td> <td>< 5 feet</td> <td>Seeding</td> </tr> <tr> <td>Black Cherry</td> <td>Medium</td> <td>5 - 10 feet</td> <td>Tall Shrub</td> </tr> <tr> <td>Red Maple</td> <td>Trace</td> <td>>20 feet</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Jack Pine	Low	< 5 feet	Seeding	Red Pine	Low	< 5 feet	Seeding	White Spruce	Low	< 5 feet	Seeding	Black Cherry	Medium	5 - 10 feet	Tall Shrub	Red Maple	Trace	>20 feet	Sapling
Canopy Species	% Cover	Size Class	DBH	Age																																																																
White Pine	3	Pole/Log	8																																																																	
Red Oak	6	Log/XLog	15																																																																	
Red Maple	10	Pole	7																																																																	
White Spruce	5	Sapling	1																																																																	
Red Pine	10	Sapling	1																																																																	
Red Pine	2	Log	14																																																																	
Jack Pine	64	Sapling	1	11																																																																
Sub-Canopy Species	Density	Avg. Height	Size																																																																	
Jack Pine	Low	< 5 feet	Seeding																																																																	
Red Pine	Low	< 5 feet	Seeding																																																																	
White Spruce	Low	< 5 feet	Seeding																																																																	
Black Cherry	Medium	5 - 10 feet	Tall Shrub																																																																	
Red Maple	Trace	>20 feet	Sapling																																																																	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
147	4310 - Pine, Oak Mix	Poletimber Medium	5.5	64	51-80	N/A	It looks like this stand had a partial harvest long ago while under private ownership, likely removing all aspen and jack pine. A small amount of bigtooth aspen regenerated and is mostly along the northern stand edge. The pine is small and younger than the oak in the stand, it's possible the red pine was underplanted at the same time the stand to the north (#115) was planted. Average ba/acre from 5 plots = 56 square feet.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
White Oak	1	Log	13		White Pine	Low		Variable	Sapling
Bigtooth Aspen	7	Pole/Sapling	5		Bigtooth Aspen	Trace		>20 feet	Sapling
Red Oak	32	Log/XLog	14	82					
Red Maple	10	Pole	7						
White Pine	10	Pole/Log	8						
Red Pine	40	Pole/Log	9	64					
148	4310 - Pine, Oak Mix	Sawtimber Poor	31.1	64	1-50	N/A	This stand had all aspen and jack pine removed while under private ownership. The residual overstory is a mix of mostly red oak, red pine, and white pine, along with clumps of poor-quality red maple that were left for some reason. More white and red pine are present in the south-running finger of the stand. The far east end of the stand has a lot of junky red maple. Regeneration consists mostly of white pine and jack pine, which regenerated well in the southwest part of the stand. Bigtooth aspen sprouted in many areas but has mostly been killed by elk browse, with the exception of a few clumps in the NW part of the stand near the road that will likely survive. Trace of black spruce and paper birch. Average ba/acre of the residual = 34 square feet.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
White Oak	1	Log	15		White Pine	Medium		Variable	Sapling
Red Pine	18	Log/Pole/XLog	12		Jack Pine	Medium		Variable	Sapling
Red Oak	19	Log/XLog	15	88	Bigtooth Aspen	Low		>20 feet	Sapling
Red Maple	24	Pole	6		Red Maple	Low		>20 feet	Sapling
White Pine	38	Pole/Log	8	64	Black Cherry	Low		Variable	Tall Shrub
149	42290 - Natural Mixed Pine	Poletimber Medium	10.3	46	51-80	N/A	Looks like this stand had a partial harvest while under private ownership, removing the aspen and jack pine. A mix of white pine sizes are present, along with a few clumps of larger natural red pine. There are a few small areas of planted red pine in the part of the stand that extends south. Far east end of the stand has some areas heavier to black cherry. Trace of white oak. Average ba/acre from 5 plots = 52 square feet. Let white pine continue to fill in.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Maple	15	Pole/Log	8		White Pine	High		Variable	Sapling
Red Oak	5	Log/XLog	14		Jack Pine	Trace		Variable	Sapling
Red Pine	33	Log/XLog/Pole	14	82	Red Maple	Trace		>20 feet	Sapling
White Pine	47	Pole/Sap/Log	6	46	Black Cherry	Low		Variable	Tall Shrub
150	2113 - Forage Crops	Nonstocked	0.3		Unspecified	No	Managed as a food plot while under private ownership.		
151	6132 - Mixed Lowland Forest with Cedar	Poletimber Medium	6.9	78	81-110	N/A	Stand is a mix of upland and lowland, with upland primarily being in the west half of the stand. A vein heavier to cedar runs north-south through the east half of the stand. Areas heavier to red maple can be found at the north and south ends, resembling an E type. Black ash used to be a large component of the stand but is now all dead. Some areas with quite a bit of older blowdown (cedar, spruce, ash). Trace of jack pine and white oak. Average ba/acre from 5 plots = 92 square feet.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Hemlock	3	Log/Pole	11		Red Maple	Medium		>20 feet	Sapling
Black Spruce	5	Pole	7		Black Spruce	Low		Variable	Sapling
Balsam Fir	2	Pole	7		White Pine	Low		Variable	Sapling
White Pine	4	Log/Pole/XLog	14		Tag Alder	Trace		5 - 10 feet	Tall Shrub
Northern White Cedar	30	Log/Pole	10	134					
Yellow Birch	1	Log/Pole	11						
Paper Birch	16	Pole/Log	8						
Red Maple	39	Pole/Log	8	78					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																						
152	42290 - Natural Mixed Pine	Sawtimber Well	2.4	53	111-140	N/A	Small stand that surrounds a pole barn. It was largely excluded from adjacent stands that were harvested except for a few areas along the edges that were thinned. A variety of pine sizes are present, including some XL-sized red and white pine. Some of the larger trees look very old. Average ba/acre from 3 plots = 137 square feet.																																																						
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Red Oak</td> <td>2</td> <td>Log/XLog</td> <td>15</td> <td></td> </tr> <tr> <td>Bigtooth Aspen</td> <td>7</td> <td>Log/Pole</td> <td>12</td> <td></td> </tr> <tr> <td>Red Maple</td> <td>8</td> <td>Pole/Log</td> <td>8</td> <td></td> </tr> <tr> <td>Jack Pine</td> <td>7</td> <td>Pole/Log</td> <td>8</td> <td></td> </tr> <tr> <td>White Pine</td> <td>28</td> <td>Pole/Log/XLog</td> <td>8</td> <td></td> </tr> <tr> <td>Red Pine</td> <td>48</td> <td>Log/Pole/XLog</td> <td>12</td> <td>53</td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age		Red Oak	2	Log/XLog	15		Bigtooth Aspen	7	Log/Pole	12		Red Maple	8	Pole/Log	8		Jack Pine	7	Pole/Log	8		White Pine	28	Pole/Log/XLog	8		Red Pine	48	Log/Pole/XLog	12	53	<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>White Pine</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	White Pine	Medium	Variable	Sapling														
Canopy Species	% Cover	Size Class	DBH	Age																																																									
Red Oak	2	Log/XLog	15																																																										
Bigtooth Aspen	7	Log/Pole	12																																																										
Red Maple	8	Pole/Log	8																																																										
Jack Pine	7	Pole/Log	8																																																										
White Pine	28	Pole/Log/XLog	8																																																										
Red Pine	48	Log/Pole/XLog	12	53																																																									
Sub-Canopy Species	Density	Avg. Height	Size																																																										
White Pine	Medium	Variable	Sapling																																																										
153	6127 - Lowland Pine	Sawtimber Well	7.1	78	111-140	N/A	Lowland bog dominated by white pine with a component of smaller swamp conifers. The white pine appears stressed in many places (yellowing foliage). A lot of variation in white pine diameters, making this possibly a multi-aged stand. Black spruce and tamarack are mostly small diameter except for along the edges where diameters increase slightly. Wet, hummocky sphagnum throughout. Trace of red maple and balsam fir. Average ba/acre from 5 plots = 114 square feet.																																																						
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Tamarack</td> <td>7</td> <td>Pole</td> <td>6</td> <td></td> </tr> <tr> <td>Black Spruce</td> <td>20</td> <td>Pole</td> <td>6</td> <td></td> </tr> <tr> <td>Red Pine</td> <td>3</td> <td>Log</td> <td>13</td> <td></td> </tr> <tr> <td>White Pine</td> <td>70</td> <td>Log/XLog/Pole</td> <td>14</td> <td>78</td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age		Tamarack	7	Pole	6		Black Spruce	20	Pole	6		Red Pine	3	Log	13		White Pine	70	Log/XLog/Pole	14	78	<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>White Pine</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Black Spruce</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Tamarack</td> <td>Trace</td> <td>>20 feet</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	White Pine	Medium	Variable	Sapling	Black Spruce	Medium	Variable	Sapling	Tamarack	Trace	>20 feet	Sapling																
Canopy Species	% Cover	Size Class	DBH	Age																																																									
Tamarack	7	Pole	6																																																										
Black Spruce	20	Pole	6																																																										
Red Pine	3	Log	13																																																										
White Pine	70	Log/XLog/Pole	14	78																																																									
Sub-Canopy Species	Density	Avg. Height	Size																																																										
White Pine	Medium	Variable	Sapling																																																										
Black Spruce	Medium	Variable	Sapling																																																										
Tamarack	Trace	>20 feet	Sapling																																																										
Poor conifer swamp element occurrence record as verified by MNFI.																																																													
154	42290 - Natural Mixed Pine	Poletimber Poor	14.1	53	1-50	N/A	Cut while under private ownership, removing all aspen and jack pine and leaving all oak, red pine, and white pine. There are a variety of ages and diameters present, including some large, old red pine. More sawtimber in this stand than stand 133 to the east. Not much regeneration is present, except for along the most heavily scarified skid trails. Hopefully these poorly-stocked areas will fill in with pine over the years. Average ba/acre from 7 plots = 39 square feet.																																																						
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>White Oak</td> <td>5</td> <td>Log</td> <td>14</td> <td></td> </tr> <tr> <td>Red Oak</td> <td>9</td> <td>Log/XLog</td> <td>14</td> <td></td> </tr> <tr> <td>Red Pine</td> <td>36</td> <td>Log/XLog/Pole</td> <td>13</td> <td></td> </tr> <tr> <td>White Pine</td> <td>50</td> <td>Pole/Log</td> <td>8</td> <td>53</td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age		White Oak	5	Log	14		Red Oak	9	Log/XLog	14		Red Pine	36	Log/XLog/Pole	13		White Pine	50	Pole/Log	8	53	<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>White Pine</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Red Pine</td> <td>Trace</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Bigtooth Aspen</td> <td>Trace</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> <tr> <td>Jack Pine</td> <td>Low</td> <td>< 5 feet</td> <td>Seeding</td> </tr> <tr> <td>Red Pine</td> <td>Low</td> <td>< 5 feet</td> <td>Seeding</td> </tr> <tr> <td>White Pine</td> <td>Low</td> <td>< 5 feet</td> <td>Seeding</td> </tr> <tr> <td>Black Cherry</td> <td>Trace</td> <td>Variable</td> <td>Tall Shrub</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	White Pine	Medium	Variable	Sapling	Red Pine	Trace	Variable	Sapling	Bigtooth Aspen	Trace	5 - 10 feet	Sapling	Jack Pine	Low	< 5 feet	Seeding	Red Pine	Low	< 5 feet	Seeding	White Pine	Low	< 5 feet	Seeding	Black Cherry	Trace	Variable	Tall Shrub
Canopy Species	% Cover	Size Class	DBH	Age																																																									
White Oak	5	Log	14																																																										
Red Oak	9	Log/XLog	14																																																										
Red Pine	36	Log/XLog/Pole	13																																																										
White Pine	50	Pole/Log	8	53																																																									
Sub-Canopy Species	Density	Avg. Height	Size																																																										
White Pine	Medium	Variable	Sapling																																																										
Red Pine	Trace	Variable	Sapling																																																										
Bigtooth Aspen	Trace	5 - 10 feet	Sapling																																																										
Jack Pine	Low	< 5 feet	Seeding																																																										
Red Pine	Low	< 5 feet	Seeding																																																										
White Pine	Low	< 5 feet	Seeding																																																										
Black Cherry	Trace	Variable	Tall Shrub																																																										
155	42290 - Natural Mixed Pine	Sawtimber Well	7.6	78	81-110	N/A	Mixed species stand with a variety of ages and diameters present. Hummocky ground that is dry but the water table is close to the surface being so close to the lake. Lots of huckleberry at the ground level. There used to be more jack pine but a lot of it has died. Some of the red pine appears stressed. Spruce component increases at the south end. Average ba/acre from 4 plots = 88 square feet. No management due to the proximity to the lake.																																																						
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Red Maple</td> <td>19</td> <td>Pole/Log</td> <td>8</td> <td></td> </tr> <tr> <td>Red Oak</td> <td>3</td> <td>Log/XLog</td> <td>14</td> <td></td> </tr> <tr> <td>Black Spruce</td> <td>5</td> <td>Pole</td> <td>5</td> <td></td> </tr> <tr> <td>Jack Pine</td> <td>11</td> <td>Log/Pole</td> <td>10</td> <td></td> </tr> <tr> <td>Red Pine</td> <td>30</td> <td>Log/Pole/XLog</td> <td>12</td> <td></td> </tr> <tr> <td>White Pine</td> <td>32</td> <td>Pole/Log/XLog</td> <td>8</td> <td>78</td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age		Red Maple	19	Pole/Log	8		Red Oak	3	Log/XLog	14		Black Spruce	5	Pole	5		Jack Pine	11	Log/Pole	10		Red Pine	30	Log/Pole/XLog	12		White Pine	32	Pole/Log/XLog	8	78	<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>White Pine</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Black Spruce</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Beech</td> <td>Trace</td> <td>Variable</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	White Pine	Medium	Variable	Sapling	Black Spruce	Low	Variable	Sapling	Beech	Trace	Variable	Sapling						
Canopy Species	% Cover	Size Class	DBH	Age																																																									
Red Maple	19	Pole/Log	8																																																										
Red Oak	3	Log/XLog	14																																																										
Black Spruce	5	Pole	5																																																										
Jack Pine	11	Log/Pole	10																																																										
Red Pine	30	Log/Pole/XLog	12																																																										
White Pine	32	Pole/Log/XLog	8	78																																																									
Sub-Canopy Species	Density	Avg. Height	Size																																																										
White Pine	Medium	Variable	Sapling																																																										
Black Spruce	Low	Variable	Sapling																																																										
Beech	Trace	Variable	Sapling																																																										



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																									
156	6120 - Lowland Cedar	Sawtimber Well	5.1	134	141-170	N/A	Moderate quality cedar, most of which appears healthy. The thin part at the west end of the stand has less cedar and more spruce and maple. Some areas with a thick spruce understory. Average ba/acre from 4 plots = 168 square feet. Age came from a 11" cedar.																																																									
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr><td>Balsam Fir</td><td>2</td><td>Pole</td><td>6</td><td></td></tr> <tr><td>Paper Birch</td><td>4</td><td>Pole/Log</td><td>8</td><td></td></tr> <tr><td>Red Maple</td><td>10</td><td>Log/Pole</td><td>11</td><td></td></tr> <tr><td>White Pine</td><td>3</td><td>Log/XLog</td><td>17</td><td></td></tr> <tr><td>Black Spruce</td><td>10</td><td>Pole</td><td>6</td><td></td></tr> <tr><td>Northern White Cedar</td><td>71</td><td>Log/Pole</td><td>10</td><td>134</td></tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Balsam Fir	2	Pole	6		Paper Birch	4	Pole/Log	8		Red Maple	10	Log/Pole	11		White Pine	3	Log/XLog	17		Black Spruce	10	Pole	6		Northern White Cedar	71	Log/Pole	10	134	<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr><td>Black Spruce</td><td>High</td><td>Variable</td><td>Sapling</td></tr> <tr><td>Tag Alder</td><td>Low</td><td>10 - 20 feet</td><td>Tall Shrub</td></tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Black Spruce	High	Variable	Sapling	Tag Alder	Low	10 - 20 feet	Tall Shrub														
Canopy Species	% Cover	Size Class	DBH	Age																																																												
Balsam Fir	2	Pole	6																																																													
Paper Birch	4	Pole/Log	8																																																													
Red Maple	10	Log/Pole	11																																																													
White Pine	3	Log/XLog	17																																																													
Black Spruce	10	Pole	6																																																													
Northern White Cedar	71	Log/Pole	10	134																																																												
Sub-Canopy Species	Density	Avg. Height	Size																																																													
Black Spruce	High	Variable	Sapling																																																													
Tag Alder	Low	10 - 20 feet	Tall Shrub																																																													
157	42200 - Natural White Pine	Poletimber Medium	26.8	48	51-80	N/A	All aspen and jack pine were removed while under private ownership, while all white and red pine were left. The residual white pine is pretty nice quality although still young. Aspen did not regenerate well except for the far northeast part of the stand next to the food plot (#118). Some residual red maple and oak can also be found in the northeast part of the stand.																																																									
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr><td>Jack Pine</td><td>2</td><td>Pole</td><td>7</td><td></td></tr> <tr><td>Red Pine</td><td>10</td><td>Log/Pole/XLog</td><td>11</td><td></td></tr> <tr><td>Red Oak</td><td>1</td><td>Log/XLog</td><td>15</td><td></td></tr> <tr><td>Red Maple</td><td>2</td><td>Pole</td><td>7</td><td></td></tr> <tr><td>White Pine</td><td>85</td><td>Pole/Sap/Log</td><td>6</td><td>48</td></tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Jack Pine	2	Pole	7		Red Pine	10	Log/Pole/XLog	11		Red Oak	1	Log/XLog	15		Red Maple	2	Pole	7		White Pine	85	Pole/Sap/Log	6	48	<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr><td>White Pine</td><td>Medium</td><td>Variable</td><td>Sapling</td></tr> <tr><td>Jack Pine</td><td>Trace</td><td>Variable</td><td>Sapling</td></tr> <tr><td>Black Cherry</td><td>Low</td><td>Variable</td><td>Tall Shrub</td></tr> <tr><td>Quaking Aspen</td><td>Trace</td><td>Variable</td><td>Sapling</td></tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	White Pine	Medium	Variable	Sapling	Jack Pine	Trace	Variable	Sapling	Black Cherry	Low	Variable	Tall Shrub	Quaking Aspen	Trace	Variable	Sapling											
Canopy Species	% Cover	Size Class	DBH	Age																																																												
Jack Pine	2	Pole	7																																																													
Red Pine	10	Log/Pole/XLog	11																																																													
Red Oak	1	Log/XLog	15																																																													
Red Maple	2	Pole	7																																																													
White Pine	85	Pole/Sap/Log	6	48																																																												
Sub-Canopy Species	Density	Avg. Height	Size																																																													
White Pine	Medium	Variable	Sapling																																																													
Jack Pine	Trace	Variable	Sapling																																																													
Black Cherry	Low	Variable	Tall Shrub																																																													
Quaking Aspen	Trace	Variable	Sapling																																																													
158	42290 - Natural Mixed Pine	Sawtimber Well	10.2	109	111-140	N/A	High quality natural pine stand. A variety of tree sizes are present including many "legacy" size trees. Stocking tends to vary from dense MC9 sawtimber to areas with a lot of younger white pine poletimber mixed in. It appears this stand has been managed in the past but it looks like it was only a light thinning. Trace of cedar along the swamp edge. Average ba/acre from 6 plots = 147 square feet. Remnants of an old logging camp and railroad grade are present in the stand (King's camp). Leave unmanaged. May qualify as Type 2 Old Growth.																																																									
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr><td>Red Oak</td><td>1</td><td>Log</td><td>14</td><td></td></tr> <tr><td>Jack Pine</td><td>2</td><td>Pole/Log</td><td>9</td><td></td></tr> <tr><td>Black Spruce</td><td>3</td><td>Pole</td><td>6</td><td></td></tr> <tr><td>Red Maple</td><td>2</td><td>Pole/Log</td><td>8</td><td></td></tr> <tr><td>Paper Birch</td><td>2</td><td>Log/Pole</td><td>10</td><td></td></tr> <tr><td>Quaking Aspen</td><td>4</td><td>Log</td><td>12</td><td></td></tr> <tr><td>White Pine</td><td>42</td><td>Log/XLog/Pole</td><td>15</td><td></td></tr> <tr><td>Red Pine</td><td>44</td><td>Log/XLog</td><td>17</td><td>109</td></tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Red Oak	1	Log	14		Jack Pine	2	Pole/Log	9		Black Spruce	3	Pole	6		Red Maple	2	Pole/Log	8		Paper Birch	2	Log/Pole	10		Quaking Aspen	4	Log	12		White Pine	42	Log/XLog/Pole	15		Red Pine	44	Log/XLog	17	109	<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr><td>White Pine</td><td>High</td><td>>20 feet</td><td>Sapling</td></tr> <tr><td>Black Cherry</td><td>Low</td><td>Variable</td><td>Tall Shrub</td></tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	White Pine	High	>20 feet	Sapling	Black Cherry	Low	Variable	Tall Shrub				
Canopy Species	% Cover	Size Class	DBH	Age																																																												
Red Oak	1	Log	14																																																													
Jack Pine	2	Pole/Log	9																																																													
Black Spruce	3	Pole	6																																																													
Red Maple	2	Pole/Log	8																																																													
Paper Birch	2	Log/Pole	10																																																													
Quaking Aspen	4	Log	12																																																													
White Pine	42	Log/XLog/Pole	15																																																													
Red Pine	44	Log/XLog	17	109																																																												
Sub-Canopy Species	Density	Avg. Height	Size																																																													
White Pine	High	>20 feet	Sapling																																																													
Black Cherry	Low	Variable	Tall Shrub																																																													
159	6124 - Lowland Spruce-Fir	Poletimber Well	3.4	72	81-110	N/A	Mixed species lowland stand. The spruce component is pretty high quality. Some drier ground along the east edge but the rest of the stand is wet and is a drainage that continues on to the north in stand 93. A few small areas of blowdown as well as some areas of lower stocking. Trace of red and white oak poletimber, trace of red pine sawtimber. Average ba/acre from 4 plots = 110 square feet.																																																									
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr><td>Tamarack</td><td>2</td><td>Pole/Log</td><td>8</td><td></td></tr> <tr><td>White Pine</td><td>5</td><td>Pole/Log</td><td>8</td><td></td></tr> <tr><td>Paper Birch</td><td>4</td><td>Log/Pole</td><td>11</td><td></td></tr> <tr><td>Quaking Aspen</td><td>9</td><td>Log/Pole</td><td>11</td><td></td></tr> <tr><td>Red Maple</td><td>5</td><td>Pole/Log</td><td>8</td><td></td></tr> <tr><td>White Spruce</td><td>9</td><td>Log/Pole</td><td>11</td><td></td></tr> <tr><td>Northern White Cedar</td><td>24</td><td>Log/Pole</td><td>10</td><td></td></tr> <tr><td>Black Spruce</td><td>42</td><td>Pole/Log</td><td>8</td><td>72</td></tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Tamarack	2	Pole/Log	8		White Pine	5	Pole/Log	8		Paper Birch	4	Log/Pole	11		Quaking Aspen	9	Log/Pole	11		Red Maple	5	Pole/Log	8		White Spruce	9	Log/Pole	11		Northern White Cedar	24	Log/Pole	10		Black Spruce	42	Pole/Log	8	72	<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr><td>Black Spruce</td><td>Low</td><td>Variable</td><td>Sapling</td></tr> <tr><td>Red Maple</td><td>Trace</td><td>Variable</td><td>Sapling</td></tr> <tr><td>Tag Alder</td><td>Medium</td><td>10 - 20 feet</td><td>Tall Shrub</td></tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Black Spruce	Low	Variable	Sapling	Red Maple	Trace	Variable	Sapling	Tag Alder	Medium	10 - 20 feet	Tall Shrub
Canopy Species	% Cover	Size Class	DBH	Age																																																												
Tamarack	2	Pole/Log	8																																																													
White Pine	5	Pole/Log	8																																																													
Paper Birch	4	Log/Pole	11																																																													
Quaking Aspen	9	Log/Pole	11																																																													
Red Maple	5	Pole/Log	8																																																													
White Spruce	9	Log/Pole	11																																																													
Northern White Cedar	24	Log/Pole	10																																																													
Black Spruce	42	Pole/Log	8	72																																																												
Sub-Canopy Species	Density	Avg. Height	Size																																																													
Black Spruce	Low	Variable	Sapling																																																													
Red Maple	Trace	Variable	Sapling																																																													
Tag Alder	Medium	10 - 20 feet	Tall Shrub																																																													



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																											
160	320 - Upland Shrub	Nonstocked	1.0		Unspecified	No	Small poorly-stocked area that looks like it may have been a landing at one time. The west half of the stand has various wire and snow fencing scattered around that was used to protect shrubs that were planted. Some of the fencing is still intact and there are a few small hawthorn and crabapples being protected by it. There are also a couple of small dead trees with tubing around their base.																																											
				<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Jack Pine</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>White Pine</td> <td>Trace</td> <td>>20 feet</td> <td>Pole</td> </tr> <tr> <td>White Pine</td> <td>Trace</td> <td>>20 feet</td> <td>Log</td> </tr> <tr> <td>White Pine</td> <td>Trace</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Red Pine</td> <td>Trace</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Hawthorn (spp.)</td> <td>Trace</td> <td>< 5 feet</td> <td>Tall Shrub</td> </tr> <tr> <td>Apple (spp.)</td> <td>Trace</td> <td>< 5 feet</td> <td>Tall Shrub</td> </tr> <tr> <td>Black Cherry</td> <td>Low</td> <td>Variable</td> <td>Tall Shrub</td> </tr> <tr> <td>Sweet Fern</td> <td>High</td> <td>< 5 feet</td> <td>Tall Shrub</td> </tr> <tr> <td>St. Johns Wort</td> <td>Medium</td> <td>Unspecified</td> <td>Non-Wood</td> </tr> </tbody> </table>		Sub-Canopy Species		Density	Avg. Height	Size	Jack Pine	Medium	Variable	Sapling	White Pine	Trace	>20 feet	Pole	White Pine	Trace	>20 feet	Log	White Pine	Trace	Variable	Sapling	Red Pine	Trace	Variable	Sapling	Hawthorn (spp.)	Trace	< 5 feet	Tall Shrub	Apple (spp.)	Trace	< 5 feet	Tall Shrub	Black Cherry	Low	Variable	Tall Shrub	Sweet Fern	High	< 5 feet	Tall Shrub	St. Johns Wort	Medium	Unspecified	Non-Wood
Sub-Canopy Species	Density	Avg. Height	Size																																															
Jack Pine	Medium	Variable	Sapling																																															
White Pine	Trace	>20 feet	Pole																																															
White Pine	Trace	>20 feet	Log																																															
White Pine	Trace	Variable	Sapling																																															
Red Pine	Trace	Variable	Sapling																																															
Hawthorn (spp.)	Trace	< 5 feet	Tall Shrub																																															
Apple (spp.)	Trace	< 5 feet	Tall Shrub																																															
Black Cherry	Low	Variable	Tall Shrub																																															
Sweet Fern	High	< 5 feet	Tall Shrub																																															
St. Johns Wort	Medium	Unspecified	Non-Wood																																															
161	4133 - Aspen, Mixed Pine	Sapling Medium	79.2	11	1-50	N/A	This stand was cut while under private ownership, removing all species except red pine, white pine, and oak. Old imagery shows that this used to be primarily an aspen stand with some scattered pockets of jack pine. Aspen regenerated well but has been hammered by elk browse. Only a few have made it past the browse level and are now 15-20 feet tall. The remainder are 5-10 feet tall with severely damaged stems, many look like bushy bonsai trees. It's difficult to tell how many are alive at this time although I doubt many will survive as elk are still using this stand heavily. Jack pine regeneration is mostly in the northern parts of the stand. The residual is scattered throughout, although heavier at the southwest part of the stand near the lake and along the east side near the road.																																											
				<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>White Oak</td> <td>3</td> <td>Log</td> <td>14</td> <td></td> </tr> <tr> <td>Red Oak</td> <td>3</td> <td>Log/XLog</td> <td>15</td> <td></td> </tr> <tr> <td>White Pine</td> <td>19</td> <td>Pole/Log/Sap</td> <td>8</td> <td>48</td> </tr> <tr> <td>Red Pine</td> <td>6</td> <td>Log/Pole/XLog</td> <td>11</td> <td></td> </tr> <tr> <td>Jack Pine</td> <td>15</td> <td>Sapling</td> <td>1</td> <td></td> </tr> <tr> <td>Bigtooth Aspen</td> <td>53</td> <td>Sapling</td> <td>1</td> <td>11</td> </tr> <tr> <td>Red Maple</td> <td>1</td> <td>Pole/Sapling</td> <td>6</td> <td></td> </tr> </tbody> </table>		Canopy Species		% Cover	Size Class	DBH	Age	White Oak	3	Log	14		Red Oak	3	Log/XLog	15		White Pine	19	Pole/Log/Sap	8	48	Red Pine	6	Log/Pole/XLog	11		Jack Pine	15	Sapling	1		Bigtooth Aspen	53	Sapling	1	11	Red Maple	1	Pole/Sapling	6					
Canopy Species	% Cover	Size Class	DBH	Age																																														
White Oak	3	Log	14																																															
Red Oak	3	Log/XLog	15																																															
White Pine	19	Pole/Log/Sap	8	48																																														
Red Pine	6	Log/Pole/XLog	11																																															
Jack Pine	15	Sapling	1																																															
Bigtooth Aspen	53	Sapling	1	11																																														
Red Maple	1	Pole/Sapling	6																																															
				<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Black Cherry</td> <td>High</td> <td>5 - 10 feet</td> <td>Tall Shrub</td> </tr> </tbody> </table>		Sub-Canopy Species		Density	Avg. Height	Size	Black Cherry	High	5 - 10 feet	Tall Shrub																																				
Sub-Canopy Species	Density	Avg. Height	Size																																															
Black Cherry	High	5 - 10 feet	Tall Shrub																																															
162	42220 - Natural Jack Pine	Poletimber Well	4.0	27	Immature	N/A	This stand was cut in 1994, along with stand 32 to the north, in the sale Panting Bull Aspen (#53-009-93), bought by Georgia Pacific. Unlike stand 32, where browse eliminated almost all regeneration, this stand was able to successfully regenerate. Aspen is primarily in the northwest part of the stand with jack pine dominating the rest. Most of the stand sits on a south/southwest facing downward slope, bordering a bog at lower elevations.																																											
				<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Red Oak</td> <td>2</td> <td>Log/XLog</td> <td>16</td> <td></td> </tr> <tr> <td>White Pine</td> <td>14</td> <td>Pole/Sapling</td> <td>6</td> <td></td> </tr> <tr> <td>Bigtooth Aspen</td> <td>22</td> <td>Pole/Sapling</td> <td>5</td> <td></td> </tr> <tr> <td>Red Pine</td> <td>2</td> <td>Pole</td> <td>6</td> <td></td> </tr> <tr> <td>Jack Pine</td> <td>60</td> <td>Pole/Sapling</td> <td>5</td> <td>27</td> </tr> </tbody> </table>		Canopy Species		% Cover	Size Class	DBH	Age	Red Oak	2	Log/XLog	16		White Pine	14	Pole/Sapling	6		Bigtooth Aspen	22	Pole/Sapling	5		Red Pine	2	Pole	6		Jack Pine	60	Pole/Sapling	5	27														
Canopy Species	% Cover	Size Class	DBH	Age																																														
Red Oak	2	Log/XLog	16																																															
White Pine	14	Pole/Sapling	6																																															
Bigtooth Aspen	22	Pole/Sapling	5																																															
Red Pine	2	Pole	6																																															
Jack Pine	60	Pole/Sapling	5	27																																														
163	42110 - Planted Red Pine	Poletimber Well	2.1	36	81-110	N/A	Small red pine plantation with a scattered older age class of red maple and oak, mostly along the edges of the stand. The oak are overtopping the red pine in a few spots but overall the plantation looks good. Average ba/acre from 3 plots = 100 square feet. Will be ready for a third row thinning next entry.																																											
				<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Red Maple</td> <td>10</td> <td>Pole</td> <td>7</td> <td></td> </tr> <tr> <td>Red Oak</td> <td>7</td> <td>Log/XLog</td> <td>16</td> <td>81</td> </tr> <tr> <td>White Oak</td> <td>2</td> <td>Log/XLog</td> <td>15</td> <td></td> </tr> <tr> <td>White Pine</td> <td>7</td> <td>Pole/Log</td> <td>8</td> <td></td> </tr> <tr> <td>Red Pine</td> <td>74</td> <td>Pole/Sapling</td> <td>6</td> <td>36</td> </tr> </tbody> </table>		Canopy Species		% Cover	Size Class	DBH	Age	Red Maple	10	Pole	7		Red Oak	7	Log/XLog	16	81	White Oak	2	Log/XLog	15		White Pine	7	Pole/Log	8		Red Pine	74	Pole/Sapling	6	36														
Canopy Species	% Cover	Size Class	DBH	Age																																														
Red Maple	10	Pole	7																																															
Red Oak	7	Log/XLog	16	81																																														
White Oak	2	Log/XLog	15																																															
White Pine	7	Pole/Log	8																																															
Red Pine	74	Pole/Sapling	6	36																																														



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																
164	4129 - Mixed Oak	Sawtimber Well	13.4	105	51-80	N/A	Moderate quality oak stand with some large diameter trees. There used to be more jack pine in the stand but most of it is now dead. A small inclusion of planted red pine at the northeast corner of the stand. A few areas of lower stocking mixed in throughout. Average ba/acre from 6 plots = 77 square feet. The south end of the stand is on a slight downward slope, the rest of the stand is flat.																																																																
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr><td>Red Oak</td><td>37</td><td>Log/XLog</td><td>15</td><td>105</td></tr> <tr><td>White Oak</td><td>35</td><td>Log/Pole/XLog</td><td>13</td><td></td></tr> <tr><td>Bigtooth Aspen</td><td>2</td><td>Log</td><td>11</td><td></td></tr> <tr><td>White Pine</td><td>8</td><td>Pole</td><td>7</td><td></td></tr> <tr><td>Red Pine</td><td>2</td><td>Pole/Log</td><td>8</td><td></td></tr> <tr><td>Jack Pine</td><td>5</td><td>Pole</td><td>8</td><td></td></tr> <tr><td>Red Maple</td><td>11</td><td>Pole</td><td>6</td><td></td></tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Red Oak	37	Log/XLog	15	105	White Oak	35	Log/Pole/XLog	13		Bigtooth Aspen	2	Log	11		White Pine	8	Pole	7		Red Pine	2	Pole/Log	8		Jack Pine	5	Pole	8		Red Maple	11	Pole	6		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr><td>White Pine</td><td>Medium</td><td>Variable</td><td>Sapling</td></tr> <tr><td>Red Maple</td><td>Low</td><td>>20 feet</td><td>Sapling</td></tr> <tr><td>White Oak</td><td>Medium</td><td>< 5 feet</td><td>Seeding</td></tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	White Pine	Medium	Variable	Sapling	Red Maple	Low	>20 feet	Sapling	White Oak	Medium	< 5 feet	Seeding												
Canopy Species	% Cover	Size Class	DBH	Age																																																																			
Red Oak	37	Log/XLog	15	105																																																																			
White Oak	35	Log/Pole/XLog	13																																																																				
Bigtooth Aspen	2	Log	11																																																																				
White Pine	8	Pole	7																																																																				
Red Pine	2	Pole/Log	8																																																																				
Jack Pine	5	Pole	8																																																																				
Red Maple	11	Pole	6																																																																				
Sub-Canopy Species	Density	Avg. Height	Size																																																																				
White Pine	Medium	Variable	Sapling																																																																				
Red Maple	Low	>20 feet	Sapling																																																																				
White Oak	Medium	< 5 feet	Seeding																																																																				
165	4199 - Other Mixed Upland Deciduous	Sawtimber Poor	6.1	98	51-80	N/A	Poorly-stocked stand with numerous non-forested areas mixed in. The oak component is pretty nice quality with some large diameter trees. White oak is trying to seed into a few areas but the seedlings are being heavily browsed, with almost all below 2 feet tall. Average ba/acre from 5 plots = 56 square feet. Deer and elk browse is too high in this area to recommend a regeneration harvest. Pine will continue to fill this stand in over the years.																																																																
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr><td>Red Maple</td><td>14</td><td>Pole</td><td>8</td><td></td></tr> <tr><td>Red Oak</td><td>35</td><td>Log/XLog</td><td>16</td><td>98</td></tr> <tr><td>White Oak</td><td>21</td><td>Log</td><td>14</td><td></td></tr> <tr><td>Bigtooth Aspen</td><td>11</td><td>Log/Pole</td><td>10</td><td></td></tr> <tr><td>Quaking Aspen</td><td>4</td><td>Pole</td><td>8</td><td></td></tr> <tr><td>White Pine</td><td>14</td><td>Pole/Log</td><td>8</td><td></td></tr> <tr><td>Red Pine</td><td>1</td><td>Pole/Log</td><td>9</td><td></td></tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Red Maple	14	Pole	8		Red Oak	35	Log/XLog	16	98	White Oak	21	Log	14		Bigtooth Aspen	11	Log/Pole	10		Quaking Aspen	4	Pole	8		White Pine	14	Pole/Log	8		Red Pine	1	Pole/Log	9		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr><td>Red Maple</td><td>Low</td><td>>20 feet</td><td>Sapling</td></tr> <tr><td>White Pine</td><td>Medium</td><td>Variable</td><td>Sapling</td></tr> <tr><td>Red Pine</td><td>Trace</td><td>Variable</td><td>Sapling</td></tr> <tr><td>White Oak</td><td>Low</td><td>< 5 feet</td><td>Seeding</td></tr> <tr><td>Black Cherry</td><td>Low</td><td>Variable</td><td>Tall Shrub</td></tr> <tr><td>Red Pine</td><td>Trace</td><td>< 5 feet</td><td>Seeding</td></tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Red Maple	Low	>20 feet	Sapling	White Pine	Medium	Variable	Sapling	Red Pine	Trace	Variable	Sapling	White Oak	Low	< 5 feet	Seeding	Black Cherry	Low	Variable	Tall Shrub	Red Pine	Trace	< 5 feet	Seeding
Canopy Species	% Cover	Size Class	DBH	Age																																																																			
Red Maple	14	Pole	8																																																																				
Red Oak	35	Log/XLog	16	98																																																																			
White Oak	21	Log	14																																																																				
Bigtooth Aspen	11	Log/Pole	10																																																																				
Quaking Aspen	4	Pole	8																																																																				
White Pine	14	Pole/Log	8																																																																				
Red Pine	1	Pole/Log	9																																																																				
Sub-Canopy Species	Density	Avg. Height	Size																																																																				
Red Maple	Low	>20 feet	Sapling																																																																				
White Pine	Medium	Variable	Sapling																																																																				
Red Pine	Trace	Variable	Sapling																																																																				
White Oak	Low	< 5 feet	Seeding																																																																				
Black Cherry	Low	Variable	Tall Shrub																																																																				
Red Pine	Trace	< 5 feet	Seeding																																																																				
166	42110 - Planted Red Pine	Poletimber Medium	2.2	34	111-140	N/A	Small stand of planted red pine. Average ba/acre from 3 plots = 137 square feet.																																																																
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr><td>Red Pine</td><td>98</td><td>Pole/Sapling</td><td>6</td><td>34</td></tr> <tr><td>Bigtooth Aspen</td><td>2</td><td>Sapling/Pole</td><td>4</td><td></td></tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Red Pine	98	Pole/Sapling	6	34	Bigtooth Aspen	2	Sapling/Pole	4		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr><td>Black Cherry</td><td>Low</td><td>Variable</td><td>Tall Shrub</td></tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Black Cherry	Low	Variable	Tall Shrub																																													
Canopy Species	% Cover	Size Class	DBH	Age																																																																			
Red Pine	98	Pole/Sapling	6	34																																																																			
Bigtooth Aspen	2	Sapling/Pole	4																																																																				
Sub-Canopy Species	Density	Avg. Height	Size																																																																				
Black Cherry	Low	Variable	Tall Shrub																																																																				
167	42110 - Planted Red Pine	Poletimber Well	1.0	36	111-140	N/A	Small red pine plantation. Average ba/acre from 2 plots = 125 square feet. Will be ready for a 1/3rd row thinning next entry. Rows are quite narrow so it will probably have to be a take 2, leave 3 thinning.																																																																
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr><td>Red Pine</td><td>98</td><td>Pole/Sapling</td><td>6</td><td>36</td></tr> <tr><td>Red Maple</td><td>2</td><td>Log/Pole</td><td>10</td><td></td></tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Red Pine	98	Pole/Sapling	6	36	Red Maple	2	Log/Pole	10		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr><td>Black Cherry</td><td>Trace</td><td>Variable</td><td>Tall Shrub</td></tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Black Cherry	Trace	Variable	Tall Shrub																																													
Canopy Species	% Cover	Size Class	DBH	Age																																																																			
Red Pine	98	Pole/Sapling	6	36																																																																			
Red Maple	2	Log/Pole	10																																																																				
Sub-Canopy Species	Density	Avg. Height	Size																																																																				
Black Cherry	Trace	Variable	Tall Shrub																																																																				
168	42141 - Planted Mixed Pine, Mixed Deciduous	Poletimber Medium	4.3	40	81-110	N/A	Variable stand that has patches of planted red pine mixed in with larger oak, maple, and white pine. Not well-stocked in the north part of the stand. Average ba/acre from 3 plots = 87 square feet.																																																																
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr><td>Red Maple</td><td>10</td><td>Pole</td><td>7</td><td></td></tr> <tr><td>Red Oak</td><td>5</td><td>Log/XLog</td><td>15</td><td></td></tr> <tr><td>White Oak</td><td>12</td><td>Log/XLog</td><td>14</td><td>89</td></tr> <tr><td>Red Pine</td><td>53</td><td>Pole</td><td>7</td><td>40</td></tr> <tr><td>Jack Pine</td><td>10</td><td>Pole</td><td>7</td><td></td></tr> <tr><td>White Pine</td><td>10</td><td>Pole/Log</td><td>8</td><td></td></tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Red Maple	10	Pole	7		Red Oak	5	Log/XLog	15		White Oak	12	Log/XLog	14	89	Red Pine	53	Pole	7	40	Jack Pine	10	Pole	7		White Pine	10	Pole/Log	8		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr><td>White Pine</td><td>Low</td><td>Variable</td><td>Sapling</td></tr> <tr><td>Jack Pine</td><td>Trace</td><td>Variable</td><td>Sapling</td></tr> <tr><td>Black Cherry</td><td>Low</td><td>Variable</td><td>Tall Shrub</td></tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	White Pine	Low	Variable	Sapling	Jack Pine	Trace	Variable	Sapling	Black Cherry	Low	Variable	Tall Shrub																	
Canopy Species	% Cover	Size Class	DBH	Age																																																																			
Red Maple	10	Pole	7																																																																				
Red Oak	5	Log/XLog	15																																																																				
White Oak	12	Log/XLog	14	89																																																																			
Red Pine	53	Pole	7	40																																																																			
Jack Pine	10	Pole	7																																																																				
White Pine	10	Pole/Log	8																																																																				
Sub-Canopy Species	Density	Avg. Height	Size																																																																				
White Pine	Low	Variable	Sapling																																																																				
Jack Pine	Trace	Variable	Sapling																																																																				
Black Cherry	Low	Variable	Tall Shrub																																																																				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments				
169	4310 - Pine, Oak Mix	Sawtimber Poor	13.8	92	1-50	N/A	This stand was cut in 1993 in the sale Panting Bull Aspen (#53-009-93), bought by Georgia Pacific. All red pine, white pine, and oak were left. Jack pine regenerated well in a few areas in the northeast part of the stand. Red maple regeneration is mostly in the south half of the stand. Strips of planted red pine are scattered throughout the stand. Average ba/acre from 4 plots = 30 square feet.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Oak		27	Log/XLog	16		Jack Pine		Medium	Variable	Sapling	
White Oak		32	Log/XLog	15	92	Black Cherry		Low	Variable	Tall Shrub	
Red Pine		17	Pole/Log	8		Red Maple		Medium	>20 feet	Sapling	
White Pine		24	Pole/Log	8		White Pine		Low	Variable	Sapling	
170	42290 - Natural Mixed Pine	Poletimber Medium	16.2	37	51-80	N/A	This stand is nearly an even mix of natural jack pine and planted red pine. The planted red pine is more common in the south half of the stand. Not well-stocked in all areas as there are numerous small non-forested openings mixed in throughout. The portion of the stand west of the closed road is larger jack pine, a lot of which is dead, and was likely a part of stand 128 at one time but was not cut for some reason. Quality on the oak is highly variable, some are nice, others are poor quality. Average ba/acre from 8 plots = 55 square feet.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Maple		6	Pole	6		Jack Pine		Low	Variable	Sapling	
Red Oak		6	Log/XLog	15		White Pine		Trace	Variable	Sapling	
White Oak		3	Log/XLog	15		Black Cherry		Low	Variable	Tall Shrub	
Red Pine		40	Pole/Sapling	6							
Jack Pine		43	Pole	6	37						
White Pine		2	Pole/Log	8							
171	42110 - Planted Red Pine	Poletimber Well	1.9	38	111-140	N/A	Dense, young plantation. Diameters tend to decrease a little at the north end. Average ba/acre from 3 plots = 133 square feet. Row widths appear wide enough in most areas to permit a standard 1/3rd row thinning although there are a few areas where the rows becomes narrow.				
Canopy Species		% Cover	Size Class	DBH	Age						
Jack Pine		4	Pole/Log	8							
Red Pine		96	Pole/Sapling	6	38						
172	42111 - Planted Red Pine, Mixed Deciduous	Poletimber Well	3.5	60	111-140	N/A	Strip of planted red pine on a side-slope adjacent to the Black River. An older age class of oak/pine/maple is mixed in. Trace of basswood, jack pine, and quaking aspen. Average ba/acre from 4 plots = 135 square feet. No management due to steep slopes and river influence.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Maple		5	Pole/Log	8		White Pine		Low	Variable	Sapling	
Red Oak		14	Log/XLog	15	107	Black Cherry		Low	5 - 10 feet	Tall Shrub	
White Oak		5	Log/XLog	15		Tag Alder		Trace	10 - 20 feet	Tall Shrub	
White Pine		3	Log/XLog	15							
Red Pine		66	Pole/Log	9	60						
Bigtooth Aspen		6	Log	13							
173	6233 - Wet Meadow	Nonstocked	1.3	0	Unspecified	No					
174	4123 - Red Oak	Sawtimber Medium	5.7	82	51-80	N/A	The majority of this stand sits on a steep south and east facing slope. Oak quality is only mediocre but there are some large diameter trees present. Barren understory for the most part. Average ba/acre from 4 plots = 65 square feet.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Maple		22	Pole/Log	9		Black Cherry		Trace	Variable	Tall Shrub	
Red Oak		47	Log/XLog	16	82	White Pine		Trace	Variable	Sapling	
Red Pine		5	Log/Pole/XLog	13		Red Pine		Trace	Variable	Sapling	
Jack Pine		3	Pole/Log	8		Jack Pine		Trace	Variable	Sapling	
White Oak		13	Log/XLog	14							
Quaking Aspen		10	Log/Pole	12							



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
-------	--------------------	--------------	-------	-----------	----------	--------------	------------------

175 4311 - Pine, Aspen Mix Poletimber Well 14.0 36 111-140 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	8	Pole/Log	9		Black Cherry	Medium	Variable	Tall Shrub
White Pine	38	Pole/Sap/Log	7		White Pine	High	Variable	Sapling
Red Pine	4	Pole	6		White Spruce	Trace	Variable	Sapling
Red Oak	1	Pole/Sapling	5		Red Oak	Trace	Variable	Sapling
Jack Pine	1	Pole	6		White Oak	Trace	Variable	Sapling
White Spruce	1	Pole/Sapling	5		Red Pine	Trace	Variable	Sapling
Quaking Aspen	47	Pole/Sapling	6	36	Autumn Olive	Medium	< 5 feet	Tall Shrub

This stand was apparently harvested while under private ownership. Regeneration came back primarily to aspen and white pine. Most of the aspen is still quite small except for a few larger clumps at the southwest corner of the stand near the roads. Trace amounts of XL-sized red and white pine. Autumn olive is becoming thick in areas. The southern part of the stand is on a south-facing slope, and there are a few small patches of oak regeneration in this area. Average ba/acre of the stand from 6 plots = 113 square feet. Stand may be ready for a treatment in 10 years.

176 4311 - Pine, Aspen Mix Poletimber Well 11.8 44 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	5	Pole/Sapling	5		Red Maple	Low	>20 feet	Sapling
Red Oak	5	Log/XLog	16		White Pine	Medium	Variable	Sapling
White Pine	20	Log/XLog/Pole	14		White Ash	Low	Variable	Sapling
Red Pine	20	Log/XLog	15	98	White Spruce	Trace	Variable	Sapling
White Spruce	1	Pole/Log	8		Black Cherry	Low	Variable	Tall Shrub
Balsam Poplar	2	Pole	7		Autumn Olive	Low	5 - 10 feet	Tall Shrub
Quaking Aspen	47	Pole	7	44	Hawthorn (spp.)	Trace	5 - 10 feet	Tall Shrub
					Tag Alder	Trace	10 - 20 feet	Tall Shrub

This stand had a partial harvest in 1977 while under private ownership and they left all oak and pine. Regeneration came back primarily to aspen, white pine, and red maple. Some of the residual pine and oak are large diameter (25"+ DBH). There are numerous wet depressions in the stand (see OFS layer). Some have standing water (ponds), some are marshy wetlands (alder/cattails), and others are dry but appear to be seasonally wet (vernal pools). Trace of paper birch, hemlock, white oak, and elm in the overstory. Average ba/acre from 6 plots = 102 square feet. Autumn olive is mostly at the south end of the stand. Protect all wet areas with a buffer when a harvest is prescribed.

177 4191 - Mixed Upland Deciduous with Conifer Sawtimber Poor 9.7 107 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	18	Pole/Log	9		White Pine	Medium	Variable	Sapling
Red Oak	42	XLog/Log	20	107	Black Cherry	Medium	Variable	Tall Shrub
White Oak	3	Log/XLog	15		Autumn Olive	Trace	5 - 10 feet	Tall Shrub
Quaking Aspen	2	Log/Pole	10		Hawthorn (spp.)	Trace	10 - 20 feet	Tall Shrub
White Pine	25	Pole/Log	8					
Red Pine	5	Log/Pole	12					
Jack Pine	2	Pole/Log	8					

Poorly-stocked stand with numerous non-forested U types mixed in. Not sure of the harvest history of this stand as this area was once under private ownership. It likely had a partial harvest at one time but regeneration largely failed except for white pine, which is starting to fill in a few areas. There are some very large oak in the stand. Trace of white spruce and balsam fir along the southern edge. Average ba/acre from 6 plots = 33 square feet. No management for now, let the white pine continue to fill in.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments				
178	429 - Mixed Upland Conifers	Poletimber Well	6.6	73	111-140	N/A	This stand is a mixed bag of everything. Scattered clumps of mature pine are present throughout. Areas heavier to spruce are in the middle part of the stand. Mostly upland but transitions down to lowland which borders Hardwood Creek. Trace of hemlock, white oak, and red oak. Average ba/acre from 5 plots = 126 square feet. An old bridge over Hardwood Creek is present near the east end of the stand.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Paper Birch		1	Pole/Log	8		White Pine		Medium	Variable	Sapling	
Northern White Cedar		2	Log	13		Black Spruce		Low	Variable	Sapling	
Jack Pine		1	Log	11		Red Maple		Trace	Variable	Sapling	
Red Maple		4	Pole/Log	8		White Oak		Trace	Variable	Sapling	
Quaking Aspen		24	Log/Pole	11		Black Cherry		Medium	Variable	Tall Shrub	
Balsam Poplar		1	Pole/Log	8		Tag Alder		Low	10 - 20 feet	Tall Shrub	
White Spruce		2	Log/Pole	12		Autumn Olive		Low	5 - 10 feet	Tall Shrub	
Black Spruce		15	Pole/Log	8		Hawthorn (spp.)		Trace	5 - 10 feet	Tall Shrub	
Red Pine		14	Log/XLog	14	98						
White Pine		36	Pole/Log/XLog	9	73						
179	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	2.9	27	51-80	N/A		This stand was clearcut in 1994 in the sale Panting Bull Aspen (#53-009-93), bought by Georgia Pacific. Everything was cut in the stand except for hemlock. Regeneration came back well to a mix of species. A clone of aspen is present in the middle of the stand. White pine is abundant along the east edge. Some excellent patches of paper birch regen are present, mostly along the north and west edges. Although it's only a few acres, this is the best upland birch regeneration I've seen in the south half of the PRC. Perhaps proximity to the road deterred deer and elk browse?			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species			Density	Avg. Height	Size
Bigtooth Aspen		28	Pole/Sapling	5		White Pine			Low	Variable	Sapling
Hemlock		4	Log/Pole	10		Ironwood			Medium	Variable	Sapling
White Oak		2	Sapling	3		Black Cherry			Trace	Variable	Tall Shrub
Red Oak		5	Sapling/Pole	4							
Ironwood		5	Sapling	3							
Red Pine		3	Pole/Sapling	6							
White Pine		33	Pole/Sap/Log	6	27						
180	330 - Low-Density Trees	Nonstocked	1.4	0	Unspecified	No	Small non-forested areas with some clumps of white pine and jack pine mixed in.				
Sub-Canopy Species		Density	Avg. Height	Size							
White Pine		Medium	Variable	Sapling							
White Pine		Low	>20 feet	Pole							
Jack Pine		Trace	>20 feet	Pole							
Black Cherry		Trace	Variable	Tall Shrub							
Jack Pine		Trace	< 5 feet	Seeding							
White Pine		Trace	< 5 feet	Seeding							
Red Pine		Trace	< 5 feet	Seeding							
181	42290 - Natural Mixed Pine	Poletimber Well	4.4	55	81-110	N/A	Mixed conifer stand of moderate quality. There used to be more jack pine in the stand but a lot of it has died. Some areas of nice white pine poletimber, more abundant in the south half. A small vein of planted red pine is in the middle part of the stand. Trace of white oak and red maple. Average ba/acre from 4 plots = 95 square feet. Manage for white pine.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Oak		5	Log/XLog	16		White Pine		High	Variable	Sapling	
White Pine		48	Pole/Log	8	55	Beech		Trace	Variable	Sapling	
Red Pine		13	Log/Pole	11		Black Cherry		Trace	Variable	Tall Shrub	
Jack Pine		22	Pole/Log	8							
Quaking Aspen		12	Pole	6							



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
-------	--------------------	--------------	-------	-----------	----------	--------------	------------------

182	42110 - Planted Red Pine	Poletimber Well	1.0	37	171-200	N/A	Dense, young plantation. There are still a lot of sub-merchantable stems in this stand. Average ba/acre from 2 plots = 180 square feet. Row widths vary, they look too narrow in many places to permit a standard 1/3rd row thinning, will need to use a take 2, leave 3 approach.
------------	--------------------------	-----------------	-----	----	---------	-----	--

Canopy Species	% Cover	Size Class	DBH	Age
Red Pine	100	Pole/Sapling	5	37

183	330 - Low-Density Trees	Nonstocked	0.7	0	Unspecified	No	Small poorly-stocked stand, filling in with white pine in the north half.
------------	-------------------------	------------	-----	---	-------------	----	---

Sub-Canopy Species	Density	Avg. Height	Size
White Pine	Medium	Variable	Sapling
White Pine	Low	>20 feet	Pole
White Pine	Trace	< 5 feet	Seeding
Red Pine	Trace	< 5 feet	Seeding
Red Pine	Trace	>20 feet	Log
Red Oak	Trace	>20 feet	Log
Red Maple	Trace	>20 feet	Log
Sweet Fern	Low	< 5 feet	Tall Shrub

184	310 - Herbaceous Openland	Nonstocked	0.7	0	Unspecified	No	A structure from the old Blue Lakes Ranch used to be here. All that remains are some remnant concrete foundations.
------------	---------------------------	------------	-----	---	-------------	----	--

Sub-Canopy Species	Density	Avg. Height	Size
White Pine	Low	Variable	Sapling
Red Pine	Trace	Variable	Sapling
Jack Pine	Trace	Variable	Sapling

185	42111 - Planted Red Pine, Mixed Deciduous	Poletimber Medium	2.5	36	51-80	N/A	Vein of young planted red pine running down the middle of the stand. The north end of the stand has some larger, natural red pine mixed in. A small strip of quaking aspen along the west edge next to the road. South end of the stand is mostly non-forested. Average ba/acre from 3 plots = 77 square feet. Not dense enough to warrant a thinning at this time.
------------	---	-------------------	-----	----	-------	-----	---

Canopy Species	% Cover	Size Class	DBH	Age
Red Pine	71	Pole/Log	8	36
Jack Pine	4	Pole	6	
Black Cherry	2	Pole	6	
Red Maple	4	Pole/Log	8	
White Pine	4	Pole	6	

Sub-Canopy Species	Density	Avg. Height	Size
Jack Pine	Trace	Variable	Sapling
Black Cherry	Medium	Variable	Tall Shrub
White Pine	Medium	Variable	Sapling
Quaking Aspen	Trace	Variable	Sapling
Serviceberry (Juneberry)	Trace	Variable	Tall Shrub

186	42141 - Planted Mixed Pine, Mixed Deciduous	Poletimber Well	6.0	60	81-110	N/A	Variable stand with veins of planted red pine running north/northeast through the stand. Oak, maple, white pine, and jack pine are mixed in between the planted rows. A couple of very large diameter oak (25"+ DBH). Trace of XL-sized natural red pine. White oak has seeded into a few areas in the southeast part of the stand but browse is holding it below 2-3 feet tall. Average ba/acre from 6 plots = 98 square feet.
------------	---	-----------------	-----	----	--------	-----	---

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	10	Pole	7	
Red Oak	10	Log/XLog	15	
White Oak	4	Log/Pole/XLog	13	
Red Pine	56	Pole/Log	9	60
Jack Pine	14	Pole	7	
Bigtooth Aspen	2	Log	15	

Sub-Canopy Species	Density	Avg. Height	Size
White Pine	Medium	Variable	Sapling
White Oak	Medium	< 5 feet	Seeding



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments				
187	4310 - Pine, Oak Mix	Sawtimber Medium	8.8	82	51-80	N/A	This stand is a mixed bag of everything. Portions of it may have been cut at the same time as adjacent stands 38 and 39. A small clump of mature jack pine is present in the middle. Patches of planted red pine are present in the north half of the stand, with larger diameter, natural red pine at the south end of the stand. Red maple and oak are more common in the north half. There are a lot of oak seedlings in areas of the stand but are being heavily browsed and are mostly below 2-3 feet in height. Average ba/acre from 3 plots = 77 square feet.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Oak		24	Log/XLog	16		Jack Pine		Low	Variable	Sapling	
White Oak		5	Log	15							
White Pine		5	Pole	7							
Red Pine		30	Log/Pole/XLog	12	82						
Jack Pine		16	Pole/Log	8							
Red Maple		20	Pole/Log	8							
188	4311 - Pine, Aspen Mix	Poletimber Medium	13.4	65	51-80	N/A	This stand had a partial harvest in 1982, along with stand 78 to the north in the adjacent Compartment. Pine and oak were left but also a lot of poor quality red maple. Aspen did not regenerate well and old inventory notes that elk browse was an issue. The western part of the stand is on a slight west-facing slope and has more pine, including a small amount of scotch pine. Average ba/acre from 3 plots = 73 square feet.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Maple		20	Pole/Log	8		Red Maple		Low	Variable	Sapling	
Red Oak		9	Log/XLog	15		White Pine		Medium	Variable	Sapling	
White Oak		1	Log	12		Red Pine		Trace	Variable	Sapling	
Bigtooth Aspen		23	Pole/Sap/Log	7	39	Scotch Pine		Trace	Variable	Sapling	
White Pine		32	Log/Pole	12	65	Balsam Fir		Trace	Variable	Sapling	
Red Pine		5	Log	12		White Oak		Low	< 5 feet	Seeding	
Jack Pine		10	Pole/Log	8							
189	42200 - Natural White Pine	Poletimber Medium	4.0	44	51-80	N/A	This stand was cut in 1994 in the sale Panting Bull Aspen (#53-009-93), bought by Georgia Pacific. All white pine, red pine, and oak were left. A lot of advanced white pine regeneration was left and now makes up the majority of the stand. A small amount of aspen regenerated in the south half of the stand. The north half of the stand doesn't have as much regeneration and has more of the residual oak. Some XL-sized red and white pine along the swamp edge. Average ba/acre from 4 plots = 75 square feet.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Oak		15	Log/XLog	16	93	White Pine		High	Variable	Sapling	
White Pine		60	Pole/Log/XLog	8	44	Jack Pine		Trace	Variable	Sapling	
Jack Pine		3	Pole/Sapling	6		Red Pine		Trace	Variable	Sapling	
Red Pine		10	Pole/Log/XLog	8		Black Cherry		Trace	Variable	Tall Shrub	
Bigtooth Aspen		12	Sapling/Pole	4	27						
190	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Medium	12.9	105	51-80	N/A	Mixed species stand dominated by moderate quality oak. More jack pine and lower stocking differentiate this from stand 164 adjacent to the south. The jack pine component is over-mature and appears close to death. A few areas with heavy white pine regeneration. Trace of XL-sized white pine and red pine poletimber. Average ba/acre from 6 plots = 51 square feet. A couple of small, dry sinkhole-like depressions are present in the east half of the stand. No regeneration harvest recommended for this stand due to the high deer and elk browse, look at adjacent stand 32 to see what happens when you try to clearcut in this area.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Oak		33	Log/XLog	15	105	White Pine		Medium	Variable	Sapling	
White Oak		23	Log/XLog	14		Red Maple		Low	>20 feet	Sapling	
Bigtooth Aspen		3	Log	13		Red Pine		Trace	Variable	Sapling	
White Pine		8	Pole/Log	8		White Oak		Medium	< 5 feet	Seeding	
Jack Pine		21	Pole/Log	9	78	Black Cherry		Trace	Variable	Tall Shrub	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																											
191	4123 - Red Oak	Sawtimber Medium	3.6	85	51-80	N/A	Small stand of moderate quality oak with some large diameter trees present. Areas of lower stocking are present along the edges. A few patches of smaller planted red pine are mixed in throughout. Average ba/acre from 3 plots = 73 square feet. No management due to the high browse pressure in the area.																																											
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Red Maple</td> <td>20</td> <td>Pole/Log</td> <td>9</td> <td></td> </tr> <tr> <td>Red Oak</td> <td>50</td> <td>Log/XLog</td> <td>15</td> <td>85</td> </tr> <tr> <td>White Oak</td> <td>13</td> <td>Log</td> <td>14</td> <td></td> </tr> <tr> <td>Bigtooth Aspen</td> <td>5</td> <td>Log</td> <td>12</td> <td></td> </tr> <tr> <td>White Pine</td> <td>5</td> <td>Log/Pole</td> <td>14</td> <td></td> </tr> <tr> <td>Red Pine</td> <td>7</td> <td>Pole/Log</td> <td>9</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age		Red Maple	20	Pole/Log	9		Red Oak	50	Log/XLog	15	85	White Oak	13	Log	14		Bigtooth Aspen	5	Log	12		White Pine	5	Log/Pole	14		Red Pine	7	Pole/Log	9		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>White Pine</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	White Pine	Medium	Variable	Sapling			
Canopy Species	% Cover	Size Class	DBH	Age																																														
Red Maple	20	Pole/Log	9																																															
Red Oak	50	Log/XLog	15	85																																														
White Oak	13	Log	14																																															
Bigtooth Aspen	5	Log	12																																															
White Pine	5	Log/Pole	14																																															
Red Pine	7	Pole/Log	9																																															
Sub-Canopy Species	Density	Avg. Height	Size																																															
White Pine	Medium	Variable	Sapling																																															
192	42250 - Pine, Oak	Sawtimber Poor	2.3	57	1-50	N/A	This stand had a partial harvest in 1994, leaving all oak and pine. According to old inventory notes, there used to be a lot of aspen regeneration in this stand. I couldn't find any so I'm guessing the elk killed it all long ago. White pine is filling in a few areas but there isn't much overall. Average ba/acre from 3 plots = 40 square feet.																																											
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Red Maple</td> <td>2</td> <td>Log</td> <td>11</td> <td></td> </tr> <tr> <td>Red Oak</td> <td>10</td> <td>Log</td> <td>15</td> <td></td> </tr> <tr> <td>White Oak</td> <td>20</td> <td>Log/XLog</td> <td>14</td> <td></td> </tr> <tr> <td>White Pine</td> <td>65</td> <td>Log/Pole</td> <td>11</td> <td>57</td> </tr> <tr> <td>Jack Pine</td> <td>3</td> <td>Log</td> <td>11</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age		Red Maple	2	Log	11		Red Oak	10	Log	15		White Oak	20	Log/XLog	14		White Pine	65	Log/Pole	11	57	Jack Pine	3	Log	11		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>White Pine</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Jack Pine</td> <td>Trace</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Black Cherry</td> <td>Trace</td> <td>Variable</td> <td>Tall Shrub</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	White Pine	Medium	Variable	Sapling	Jack Pine	Trace	Variable	Sapling	Black Cherry	Trace	Variable	Tall Shrub
Canopy Species	% Cover	Size Class	DBH	Age																																														
Red Maple	2	Log	11																																															
Red Oak	10	Log	15																																															
White Oak	20	Log/XLog	14																																															
White Pine	65	Log/Pole	11	57																																														
Jack Pine	3	Log	11																																															
Sub-Canopy Species	Density	Avg. Height	Size																																															
White Pine	Medium	Variable	Sapling																																															
Jack Pine	Trace	Variable	Sapling																																															
Black Cherry	Trace	Variable	Tall Shrub																																															
193	6239 - Mixed Emergent Wetland	Nonstocked	0.3	0	Unspecified	No	Small wetland depression.																																											
		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Jack Pine</td> <td>Trace</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Red Pine</td> <td>Trace</td> <td>>20 feet</td> <td>Pole</td> </tr> <tr> <td>White Pine</td> <td>Low</td> <td>>20 feet</td> <td>Pole</td> </tr> <tr> <td>White Pine</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height		Size	Jack Pine	Trace	Variable	Sapling	Red Pine	Trace	>20 feet	Pole	White Pine	Low	>20 feet	Pole	White Pine	Low	Variable	Sapling																										
Sub-Canopy Species	Density	Avg. Height	Size																																															
Jack Pine	Trace	Variable	Sapling																																															
Red Pine	Trace	>20 feet	Pole																																															
White Pine	Low	>20 feet	Pole																																															
White Pine	Low	Variable	Sapling																																															
194	42250 - Pine, Oak	Poletimber Medium	8.7	23	51-80	N/A	This stand was cut in 1998 in the sale Collared Cow Pine (#53-010-93), bought by Tulgetska and cut by a whole-tree crew. All oak, red pine, and white pine were left, as were any jack pine under 6" DBH. The stand did not regenerate well and is composed mostly of open-grown white pine which was likely advanced regeneration that was protected during the harvest, along with an older age class of primarily white oak. Jack pine seeded into a few areas but is limited overall. A few pockets of larger jack pine were not cut and are along the perimeter of the stand. Some white oak is trying to seed in but is being hit hard by browse and most are under 2 feet tall. Average ba/acre from 5 plots = 50 square feet.																																											
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Red Oak</td> <td>9</td> <td>Log</td> <td>15</td> <td></td> </tr> <tr> <td>White Oak</td> <td>24</td> <td>Log/Pole</td> <td>13</td> <td>87</td> </tr> <tr> <td>White Pine</td> <td>52</td> <td>Pole/Sap/Log</td> <td>6</td> <td>23</td> </tr> <tr> <td>Jack Pine</td> <td>15</td> <td>Pole/Sapling</td> <td>5</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age		Red Oak	9	Log	15		White Oak	24	Log/Pole	13	87	White Pine	52	Pole/Sap/Log	6	23	Jack Pine	15	Pole/Sapling	5																								
Canopy Species	% Cover	Size Class	DBH	Age																																														
Red Oak	9	Log	15																																															
White Oak	24	Log/Pole	13	87																																														
White Pine	52	Pole/Sap/Log	6	23																																														
Jack Pine	15	Pole/Sapling	5																																															
195	42110 - Planted Red Pine	Poletimber Well	1.8	37	111-140	N/A	Young plantation with a few larger oak and maple mixed in. There is a thin strip of older planted pine along the northeast side of the stand.																																											
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Red Maple</td> <td>8</td> <td>Pole/Log</td> <td>8</td> <td></td> </tr> <tr> <td>White Pine</td> <td>3</td> <td>Pole</td> <td>7</td> <td></td> </tr> <tr> <td>Red Pine</td> <td>84</td> <td>Pole/Sapling</td> <td>6</td> <td>37</td> </tr> <tr> <td>Red Oak</td> <td>5</td> <td>Log</td> <td>15</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age		Red Maple	8	Pole/Log	8		White Pine	3	Pole	7		Red Pine	84	Pole/Sapling	6	37	Red Oak	5	Log	15		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>White Pine</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	White Pine	Low	Variable	Sapling													
Canopy Species	% Cover	Size Class	DBH	Age																																														
Red Maple	8	Pole/Log	8																																															
White Pine	3	Pole	7																																															
Red Pine	84	Pole/Sapling	6	37																																														
Red Oak	5	Log	15																																															
Sub-Canopy Species	Density	Avg. Height	Size																																															
White Pine	Low	Variable	Sapling																																															



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																												
196	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Poor	15.2	78	51-80	N/A	Low-quality, poorly-stocked stand, about half of which sits on steep slopes leading down to the Black River. Best stocking is along the steep slopes, with the flat part of the stand having just a few scattered red maple/oak/pine and resembling a U in many areas. Average ba/acre from 8 plots = 54 square feet. A high-intensity wildfire in the summer of 2018 burned a few acres in the southern part of the stand, killing many trees in this area. In the area of the wildfire is a popular camping spot along with stairs leading down to the river.																																																												
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr><td>Red Maple</td><td>25</td><td>Pole/Log</td><td>9</td><td></td></tr> <tr><td>Bigtooth Aspen</td><td>10</td><td>Log/Pole</td><td>12</td><td></td></tr> <tr><td>Jack Pine</td><td>15</td><td>Pole/Log</td><td>8</td><td></td></tr> <tr><td>White Oak</td><td>2</td><td>Log/XLog</td><td>15</td><td></td></tr> <tr><td>White Pine</td><td>15</td><td>Pole/Log/XLog</td><td>8</td><td></td></tr> <tr><td>White Spruce</td><td>1</td><td>Pole</td><td>7</td><td></td></tr> <tr><td>Red Pine</td><td>7</td><td>Log/XLog</td><td>14</td><td></td></tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Red Maple	25	Pole/Log	9		Bigtooth Aspen	10	Log/Pole	12		Jack Pine	15	Pole/Log	8		White Oak	2	Log/XLog	15		White Pine	15	Pole/Log/XLog	8		White Spruce	1	Pole	7		Red Pine	7	Log/XLog	14		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr><td>Black Cherry</td><td>Medium</td><td>Variable</td><td>Tall Shrub</td></tr> <tr><td>White Pine</td><td>Medium</td><td>Variable</td><td>Sapling</td></tr> <tr><td>Jack Pine</td><td>Low</td><td>Variable</td><td>Sapling</td></tr> <tr><td>Red Pine</td><td>Trace</td><td>Variable</td><td>Sapling</td></tr> <tr><td>Red Maple</td><td>Trace</td><td>Variable</td><td>Sapling</td></tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Black Cherry	Medium	Variable	Tall Shrub	White Pine	Medium	Variable	Sapling	Jack Pine	Low	Variable	Sapling	Red Pine	Trace	Variable	Sapling	Red Maple	Trace	Variable	Sapling
Canopy Species	% Cover	Size Class	DBH	Age																																																															
Red Maple	25	Pole/Log	9																																																																
Bigtooth Aspen	10	Log/Pole	12																																																																
Jack Pine	15	Pole/Log	8																																																																
White Oak	2	Log/XLog	15																																																																
White Pine	15	Pole/Log/XLog	8																																																																
White Spruce	1	Pole	7																																																																
Red Pine	7	Log/XLog	14																																																																
Sub-Canopy Species	Density	Avg. Height	Size																																																																
Black Cherry	Medium	Variable	Tall Shrub																																																																
White Pine	Medium	Variable	Sapling																																																																
Jack Pine	Low	Variable	Sapling																																																																
Red Pine	Trace	Variable	Sapling																																																																
Red Maple	Trace	Variable	Sapling																																																																
197	42110 - Planted Red Pine	Poletimber Medium	1.0	36	81-110	N/A	Small red pine plantation. Not completely stocked as there scattered open areas separating some of the plantings. Portions of the stand sit in small depressions.																																																												
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr><td>Red Maple</td><td>4</td><td>Pole/Log</td><td>8</td><td></td></tr> <tr><td>Red Oak</td><td>4</td><td>Log/XLog</td><td>16</td><td></td></tr> <tr><td>White Oak</td><td>1</td><td>Log/XLog</td><td>15</td><td></td></tr> <tr><td>White Pine</td><td>8</td><td>Log/Pole</td><td>12</td><td></td></tr> <tr><td>Red Pine</td><td>83</td><td>Pole/Sapling</td><td>6</td><td>36</td></tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Red Maple	4	Pole/Log	8		Red Oak	4	Log/XLog	16		White Oak	1	Log/XLog	15		White Pine	8	Log/Pole	12		Red Pine	83	Pole/Sapling	6	36	<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr><td>White Pine</td><td>Low</td><td>Variable</td><td>Sapling</td></tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	White Pine	Low	Variable	Sapling																										
Canopy Species	% Cover	Size Class	DBH	Age																																																															
Red Maple	4	Pole/Log	8																																																																
Red Oak	4	Log/XLog	16																																																																
White Oak	1	Log/XLog	15																																																																
White Pine	8	Log/Pole	12																																																																
Red Pine	83	Pole/Sapling	6	36																																																															
Sub-Canopy Species	Density	Avg. Height	Size																																																																
White Pine	Low	Variable	Sapling																																																																
198	6239 - Mixed Emergent Wetland	Nonstocked	0.5	0	Unspecified	No	Small sinkhole-like depression that appears to be mainly grass/sedge with a few cattails. There looks to be a few areas of standing water along the edges.																																																												
		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr><td>White Pine</td><td>Trace</td><td>5 - 10 feet</td><td>Sapling</td></tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	White Pine	Trace	5 - 10 feet	Sapling																																																								
Sub-Canopy Species	Density	Avg. Height	Size																																																																
White Pine	Trace	5 - 10 feet	Sapling																																																																
199	320 - Upland Shrub	Nonstocked	0.8		Unspecified	No	Lot of sweetfern. Was cut at the same time as adjacent stand 85 but hardly anything regenerated in this stand.																																																												
		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr><td>White Pine</td><td>Low</td><td>Variable</td><td>Sapling</td></tr> <tr><td>Black Cherry</td><td>Low</td><td>Variable</td><td>Tall Shrub</td></tr> <tr><td>Sweet Fern</td><td>High</td><td>< 5 feet</td><td>Tall Shrub</td></tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	White Pine	Low	Variable	Sapling	Black Cherry	Low	Variable	Tall Shrub	Sweet Fern	High	< 5 feet	Tall Shrub																																																
Sub-Canopy Species	Density	Avg. Height	Size																																																																
White Pine	Low	Variable	Sapling																																																																
Black Cherry	Low	Variable	Tall Shrub																																																																
Sweet Fern	High	< 5 feet	Tall Shrub																																																																
200	310 - Herbaceous Openland	Nonstocked	0.4	0	Unspecified	No	There is a utility pole in this stand with active lines heading southeast on a ROW across the river onto private land.																																																												
201	42110 - Planted Red Pine	Poletimber Well	1.0	37	141-170	N/A	Dense, healthy red pine plantation. Average ba/acre from 2 plots = 160 square feet. Row widths vary. They look wide enough in some areas for a standard 1/3rd row thinning but other areas are too narrow.																																																												
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr><td>Red Pine</td><td>97</td><td>Pole/Sapling</td><td>6</td><td>37</td></tr> <tr><td>Jack Pine</td><td>3</td><td>Pole</td><td>7</td><td></td></tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Red Pine	97	Pole/Sapling	6	37	Jack Pine	3	Pole	7																																																				
Canopy Species	% Cover	Size Class	DBH	Age																																																															
Red Pine	97	Pole/Sapling	6	37																																																															
Jack Pine	3	Pole	7																																																																



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																													
202	42110 - Planted Red Pine	Poletimber Well	1.1	40	81-110	N/A	Small red pine plantation. Not densely-stocked like others in the area. A component of larger, older red pine is common along the western part of the stand. Trace of white oak. Average ba/acre from 2 plots = 105 square feet.																																													
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Red Maple</td> <td>5</td> <td>Pole/Log</td> <td>8</td> <td></td> </tr> <tr> <td>Red Oak</td> <td>10</td> <td>Log</td> <td>15</td> <td></td> </tr> <tr> <td>White Pine</td> <td>5</td> <td>Pole</td> <td>5</td> <td></td> </tr> <tr> <td>Red Pine</td> <td>78</td> <td>Pole/Log/XLog</td> <td>8</td> <td>40</td> </tr> <tr> <td>Jack Pine</td> <td>2</td> <td>Pole</td> <td>6</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age		Red Maple	5	Pole/Log	8		Red Oak	10	Log	15		White Pine	5	Pole	5		Red Pine	78	Pole/Log/XLog	8	40	Jack Pine	2	Pole	6		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>White Pine</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Red Pine</td> <td>Trace</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Black Cherry</td> <td>Low</td> <td>5 - 10 feet</td> <td>Tall Shrub</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	White Pine	Low	Variable	Sapling	Red Pine	Trace	Variable	Sapling	Black Cherry	Low	5 - 10 feet	Tall Shrub		
Canopy Species	% Cover	Size Class	DBH	Age																																																
Red Maple	5	Pole/Log	8																																																	
Red Oak	10	Log	15																																																	
White Pine	5	Pole	5																																																	
Red Pine	78	Pole/Log/XLog	8	40																																																
Jack Pine	2	Pole	6																																																	
Sub-Canopy Species	Density	Avg. Height	Size																																																	
White Pine	Low	Variable	Sapling																																																	
Red Pine	Trace	Variable	Sapling																																																	
Black Cherry	Low	5 - 10 feet	Tall Shrub																																																	
203	42110 - Planted Red Pine	Poletimber Well	1.5	40	81-110	N/A	Small red pine plantation, not as densely-stocked as others in the area. Small depression in the middle of the stand, looks manmade. Average ba/acre from 3 plots = 83 square feet.																																													
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Red Oak</td> <td>3</td> <td>XLog/Log</td> <td>22</td> <td></td> </tr> <tr> <td>White Oak</td> <td>3</td> <td>Log/XLog</td> <td>15</td> <td></td> </tr> <tr> <td>Red Pine</td> <td>88</td> <td>Pole</td> <td>6</td> <td>40</td> </tr> <tr> <td>White Pine</td> <td>6</td> <td>Pole/Log</td> <td>8</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age		Red Oak	3	XLog/Log	22		White Oak	3	Log/XLog	15		Red Pine	88	Pole	6	40	White Pine	6	Pole/Log	8		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>White Pine</td> <td>Trace</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Black Cherry</td> <td>Low</td> <td>Variable</td> <td>Tall Shrub</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	White Pine	Trace	Variable	Sapling	Black Cherry	Low	Variable	Tall Shrub											
Canopy Species	% Cover	Size Class	DBH	Age																																																
Red Oak	3	XLog/Log	22																																																	
White Oak	3	Log/XLog	15																																																	
Red Pine	88	Pole	6	40																																																
White Pine	6	Pole/Log	8																																																	
Sub-Canopy Species	Density	Avg. Height	Size																																																	
White Pine	Trace	Variable	Sapling																																																	
Black Cherry	Low	Variable	Tall Shrub																																																	
204	320 - Upland Shrub	Nonstocked	0.5		Unspecified	No	The west side of this stand looks like it was worked as a food plot at one point.																																													
205	6112 - Lowland Aspen	Poletimber Medium	3.4	46	51-80	N/A	Small stand of moderately-stocked aspen. The ground is on lowland soils and sits below a ridgeline to the west, but it does not appear to be overly wet. Aspen quality is not great, neither is the pine. Average ba/acre from 3 plots = 67 square feet.																																													
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Red Pine</td> <td>6</td> <td>Log/Pole</td> <td>12</td> <td></td> </tr> <tr> <td>Red Maple</td> <td>2</td> <td>Pole/Log</td> <td>8</td> <td></td> </tr> <tr> <td>Jack Pine</td> <td>2</td> <td>Pole</td> <td>7</td> <td></td> </tr> <tr> <td>White Pine</td> <td>8</td> <td>Pole/Log</td> <td>8</td> <td></td> </tr> <tr> <td>Quaking Aspen</td> <td>82</td> <td>Pole/Log</td> <td>8</td> <td>46</td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age		Red Pine	6	Log/Pole	12		Red Maple	2	Pole/Log	8		Jack Pine	2	Pole	7		White Pine	8	Pole/Log	8		Quaking Aspen	82	Pole/Log	8	46	<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>White Pine</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Tag Alder</td> <td>Trace</td> <td>10 - 20 feet</td> <td>Tall Shrub</td> </tr> <tr> <td>Black Cherry</td> <td>Low</td> <td>Variable</td> <td>Tall Shrub</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	White Pine	Low	Variable	Sapling	Tag Alder	Trace	10 - 20 feet	Tall Shrub	Black Cherry	Low	Variable	Tall Shrub		
Canopy Species	% Cover	Size Class	DBH	Age																																																
Red Pine	6	Log/Pole	12																																																	
Red Maple	2	Pole/Log	8																																																	
Jack Pine	2	Pole	7																																																	
White Pine	8	Pole/Log	8																																																	
Quaking Aspen	82	Pole/Log	8	46																																																
Sub-Canopy Species	Density	Avg. Height	Size																																																	
White Pine	Low	Variable	Sapling																																																	
Tag Alder	Trace	10 - 20 feet	Tall Shrub																																																	
Black Cherry	Low	Variable	Tall Shrub																																																	
206	4311 - Pine, Aspen Mix	Sapling Medium	5.5	28	Immature	N/A	This stand was cut in 1993 in the sale Panting Bull Aspen (#53-009-93), bought by Georgia Pacific. All red pine, white pine, and oak were left. Aspen regenerated moderately well in the south half of the stand. White pine is more abundant in the north half. The majority of the stand sits on a slight east-facing slope.																																													
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Red Oak</td> <td>5</td> <td>Log/XLog</td> <td>15</td> <td></td> </tr> <tr> <td>Red Pine</td> <td>4</td> <td>Log/XLog</td> <td>14</td> <td></td> </tr> <tr> <td>Jack Pine</td> <td>4</td> <td>Sapling/Pole</td> <td>3</td> <td></td> </tr> <tr> <td>White Pine</td> <td>35</td> <td>Pole/Sapling</td> <td>6</td> <td></td> </tr> <tr> <td>White Oak</td> <td>2</td> <td>Log/XLog</td> <td>15</td> <td></td> </tr> <tr> <td>Bigtooth Aspen</td> <td>15</td> <td>Sapling</td> <td>4</td> <td></td> </tr> <tr> <td>Quaking Aspen</td> <td>35</td> <td>Sapling</td> <td>3</td> <td>28</td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age		Red Oak	5	Log/XLog	15		Red Pine	4	Log/XLog	14		Jack Pine	4	Sapling/Pole	3		White Pine	35	Pole/Sapling	6		White Oak	2	Log/XLog	15		Bigtooth Aspen	15	Sapling	4		Quaking Aspen	35	Sapling	3	28	<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>White Pine</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	White Pine	Low	Variable	Sapling
Canopy Species	% Cover	Size Class	DBH	Age																																																
Red Oak	5	Log/XLog	15																																																	
Red Pine	4	Log/XLog	14																																																	
Jack Pine	4	Sapling/Pole	3																																																	
White Pine	35	Pole/Sapling	6																																																	
White Oak	2	Log/XLog	15																																																	
Bigtooth Aspen	15	Sapling	4																																																	
Quaking Aspen	35	Sapling	3	28																																																
Sub-Canopy Species	Density	Avg. Height	Size																																																	
White Pine	Low	Variable	Sapling																																																	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
207	4310 - Pine, Oak Mix	Sawtimber Medium	5.3	89	81-110	N/A	The majority of this stand sits on a slight ridgeline overlooking lowlands to the south. An open area at the west end of the stand used to be the location of some kind of structure (see Topo imagery).			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
White Pine		25	Log/Pole/XLog	13		Black Spruce		Medium	Variable	Tall Shrub
Jack Pine		4	Pole/Log	8		Alder		Medium	Variable	Tall Shrub
Red Maple		10	Pole/Log	8						
White Oak		7	Log	14						
Red Pine		14	Log/XLog/Pole	13						
Red Oak		40	Log/XLog	15	89					
208	6129 - Mixed Coniferous Lowland Forest	Sawtimber Medium	9.1	71	51-80	N/A	Mixed lowland conifer stand with a stream flowing through almost the entire length of the stand. Several seeps are also present, draining out of the adjacent uplands to the north. Some very large white pine (25"+ DBH) mixed in throughout. Average ba/acre from 7 plots = 74 square feet.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Black Spruce		30	Pole/Log	8	71	Black Spruce		Low	Variable	Sapling
Tamarack		20	Log/Pole	10		Tag Alder		High	10 - 20 feet	Tall Shrub
White Pine		25	Log/Pole/XLog	12		Black Cherry		Low	Variable	Tall Shrub
Jack Pine		1	Log	11						
Red Pine		2	Log	14						
Red Maple		5	Pole/Log	9						
Quaking Aspen		10	Pole/Log	8						
Northern White Cedar		5	Log/Pole	10						
Paper Birch		2	Pole/Log	9						
209	6112 - Lowland Aspen	Poletimber Poor	1.7	46	1-50	N/A	Poorly-stocked lowland popple stand. Wet stand, especially in the north half. Heavy alder understory in the north half. Average ba/acre from 2 plots = 35 square feet. The stream that flows through stand 208, and eventually joining with the Black River, may originate in this stand.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Black Spruce		5	Pole	6		Black Spruce		Low	Variable	Sapling
White Pine		5	Pole/Log	8		Tag Alder		High	10 - 20 feet	Tall Shrub
Red Pine		3	Pole/Log	8		White Pine		Trace	Variable	Sapling
Red Maple		2	Pole/Log	8						
Paper Birch		3	Pole/Log	8						
Quaking Aspen		82	Pole/Log	8	46					
210	429 - Mixed Upland Conifers	Sawtimber Well	2.0	94	171-200	N/A	Nice hemlock stand with a supercanopy of large white pine and red oak. Trace of black spruce and white oak. Average ba/acre from 2 plots = 180 square feet. Hummocky ground throughout with some areas looking like they are seasonally wet.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Northern White Cedar		2	Log/Pole	10		Hemlock		Low	>20 feet	Sapling
Red Maple		10	Log/Pole	12						
Red Oak		9	XLog/Log	20						
Red Pine		1	Log/XLog	17						
White Pine		28	XLog/Log	19						
Hemlock		50	Log/Pole/XLog	12	94					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																											
211	6121 - Tamarack	Poletimber Well	7.8	83	81-110	N/A	Lowland stand dominated by tamarack. Most tamarack is healthy. Average ba/acre from 3 plots = 100 square feet.																																																											
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Northern White Cedar</td> <td>12</td> <td>Pole/Log</td> <td>8</td> <td></td> </tr> <tr> <td>Balsam Fir</td> <td>3</td> <td>Pole</td> <td>6</td> <td></td> </tr> <tr> <td>Black Spruce</td> <td>25</td> <td>Pole</td> <td>7</td> <td></td> </tr> <tr> <td>Tamarack</td> <td>60</td> <td>Pole/Log</td> <td>9</td> <td>83</td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Northern White Cedar	12	Pole/Log	8		Balsam Fir	3	Pole	6		Black Spruce	25	Pole	7		Tamarack	60	Pole/Log	9	83	<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Balsam Fir</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Black Spruce</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Tag Alder</td> <td>Low</td> <td>5 - 10 feet</td> <td>Tall Shrub</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Balsam Fir	Low	Variable	Sapling	Black Spruce	Low	Variable	Sapling	Tag Alder	Low	5 - 10 feet	Tall Shrub																						
Canopy Species	% Cover	Size Class	DBH	Age																																																														
Northern White Cedar	12	Pole/Log	8																																																															
Balsam Fir	3	Pole	6																																																															
Black Spruce	25	Pole	7																																																															
Tamarack	60	Pole/Log	9	83																																																														
Sub-Canopy Species	Density	Avg. Height	Size																																																															
Balsam Fir	Low	Variable	Sapling																																																															
Black Spruce	Low	Variable	Sapling																																																															
Tag Alder	Low	5 - 10 feet	Tall Shrub																																																															
212	42290 - Natural Mixed Pine	Sapling Medium	20.6	21	Immature	N/A	This stand had all the aspen and jack pine removed while under private ownership. Red pine and white pine were left, along with some red maple for some reason. Jack pine regenerated well in many areas, except for the far east side, east of the road, which is more of a U type. Trace of red oak.																																																											
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Quaking Aspen</td> <td>4</td> <td>Sapling</td> <td>3</td> <td></td> </tr> <tr> <td>Red Maple</td> <td>9</td> <td>Pole</td> <td>7</td> <td></td> </tr> <tr> <td>Red Pine</td> <td>4</td> <td>Log/Pole</td> <td>11</td> <td></td> </tr> <tr> <td>White Pine</td> <td>26</td> <td>Pole/Sap/Log</td> <td>6</td> <td>48</td> </tr> <tr> <td>Jack Pine</td> <td>57</td> <td>Sapling/Pole</td> <td>3</td> <td>21</td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Quaking Aspen	4	Sapling	3		Red Maple	9	Pole	7		Red Pine	4	Log/Pole	11		White Pine	26	Pole/Sap/Log	6	48	Jack Pine	57	Sapling/Pole	3	21	<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Black Cherry</td> <td>Medium</td> <td>Variable</td> <td>Tall Shrub</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Black Cherry	Medium	Variable	Tall Shrub																									
Canopy Species	% Cover	Size Class	DBH	Age																																																														
Quaking Aspen	4	Sapling	3																																																															
Red Maple	9	Pole	7																																																															
Red Pine	4	Log/Pole	11																																																															
White Pine	26	Pole/Sap/Log	6	48																																																														
Jack Pine	57	Sapling/Pole	3	21																																																														
Sub-Canopy Species	Density	Avg. Height	Size																																																															
Black Cherry	Medium	Variable	Tall Shrub																																																															
213	42201 - Natural White Pine, Mixed Deciduous	Poletimber Medium	14.1	48	51-80	N/A	It looks like all aspen and jack pine were removed from this stand while under private ownership but unsure of what year. Residual stand is mostly smaller white pine with some larger oak mixed in. A small inclusion of large red pine is present along the southeast edge of the stand. The far northern end of the stand next to the food plot has more maple and oak. Areas of U along the road. This stand was broken out from stand 161 and I only looked at the edge, a more detailed look should be done in the future.																																																											
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Red Pine</td> <td>5</td> <td>Log</td> <td>15</td> <td></td> </tr> <tr> <td>Red Oak</td> <td>15</td> <td>Log/XLog</td> <td>14</td> <td></td> </tr> <tr> <td>White Oak</td> <td>3</td> <td>Log</td> <td>14</td> <td></td> </tr> <tr> <td>Bigtooth Aspen</td> <td>5</td> <td>Pole</td> <td>5</td> <td></td> </tr> <tr> <td>Red Maple</td> <td>10</td> <td>Pole</td> <td>8</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Red Pine	5	Log	15		Red Oak	15	Log/XLog	14		White Oak	3	Log	14		Bigtooth Aspen	5	Pole	5		Red Maple	10	Pole	8		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>White Pine</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Jack Pine</td> <td>Trace</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Black Cherry</td> <td>Medium</td> <td>Variable</td> <td>Tall Shrub</td> </tr> <tr> <td>Bigtooth Aspen</td> <td>Trace</td> <td>>20 feet</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	White Pine	Medium	Variable	Sapling	Jack Pine	Trace	Variable	Sapling	Black Cherry	Medium	Variable	Tall Shrub	Bigtooth Aspen	Trace	>20 feet	Sapling													
Canopy Species	% Cover	Size Class	DBH	Age																																																														
Red Pine	5	Log	15																																																															
Red Oak	15	Log/XLog	14																																																															
White Oak	3	Log	14																																																															
Bigtooth Aspen	5	Pole	5																																																															
Red Maple	10	Pole	8																																																															
Sub-Canopy Species	Density	Avg. Height	Size																																																															
White Pine	Medium	Variable	Sapling																																																															
Jack Pine	Trace	Variable	Sapling																																																															
Black Cherry	Medium	Variable	Tall Shrub																																																															
Bigtooth Aspen	Trace	>20 feet	Sapling																																																															
214	42200 - Natural White Pine	Sawtimber Well	7.5	87	141-170	N/A	Very high quality natural pine stand that was confirmed by MNFI as an Element Occurrence of a Dry-mesic Northern Forest during a field survey in the summer of 2020. Red pine age of 125 years was verified from a tree in the stand. Dense stocking along the margins of the lowland conifer stand (stand #153), the ground also becomes wet along this edge. A variety of diameters and ages are present giving this the appearance of an uneven-aged stand in places. Some younger white pine are present along the northern edge that borders stand #154. Red oak is mostly at the southwestern end of the stand. Trace of hemlock. Average ba/acre from 4 plots = 158 square feet. This stand has never been managed and should be left alone in the future. It also likely qualifies as Type 2 Old Growth.																																																											
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Red Oak</td> <td>4</td> <td>Log/XLog</td> <td>16</td> <td></td> </tr> <tr> <td>Jack Pine</td> <td>2</td> <td>Log/Pole</td> <td>12</td> <td></td> </tr> <tr> <td>Red Maple</td> <td>7</td> <td>Log/Pole</td> <td>12</td> <td></td> </tr> <tr> <td>Black Spruce</td> <td>4</td> <td>Pole/Log</td> <td>9</td> <td></td> </tr> <tr> <td>Balsam Fir</td> <td>3</td> <td>Pole</td> <td>7</td> <td></td> </tr> <tr> <td>Red Pine</td> <td>15</td> <td>Log/XLog</td> <td>16</td> <td>125</td> </tr> <tr> <td>White Pine</td> <td>65</td> <td>Log/XLog/Pole</td> <td>16</td> <td>87</td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Red Oak	4	Log/XLog	16		Jack Pine	2	Log/Pole	12		Red Maple	7	Log/Pole	12		Black Spruce	4	Pole/Log	9		Balsam Fir	3	Pole	7		Red Pine	15	Log/XLog	16	125	White Pine	65	Log/XLog/Pole	16	87	<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>White Pine</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Black Spruce</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	White Pine	Low	Variable	Sapling	Black Spruce	Low	Variable	Sapling											
Canopy Species	% Cover	Size Class	DBH	Age																																																														
Red Oak	4	Log/XLog	16																																																															
Jack Pine	2	Log/Pole	12																																																															
Red Maple	7	Log/Pole	12																																																															
Black Spruce	4	Pole/Log	9																																																															
Balsam Fir	3	Pole	7																																																															
Red Pine	15	Log/XLog	16	125																																																														
White Pine	65	Log/XLog/Pole	16	87																																																														
Sub-Canopy Species	Density	Avg. Height	Size																																																															
White Pine	Low	Variable	Sapling																																																															
Black Spruce	Low	Variable	Sapling																																																															
215	42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	3.4	106	81-110	N/A	This stand had a partial harvest while under private ownership in 1977, cutting everything except oak, red pine, white pine, and hemlock. The residual pine is of natural origin and high quality. Some trees approaching legacy size are present. Regeneration came back mostly to red maple. Trace of hemlock, white spruce, and balsam fir in the overstory. Autumn olive is present mostly along the road edge but starting to encroach into the stand in a few areas. Let the second age class of red maple mature before considering a harvest. Protect all vernal pools with buffers.																																																											
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Red Maple</td> <td>20</td> <td>Pole/Sapling</td> <td>5</td> <td>44</td> </tr> <tr> <td>White Pine</td> <td>21</td> <td>Log/Pole/XLog</td> <td>13</td> <td></td> </tr> <tr> <td>Red Oak</td> <td>5</td> <td>Log/XLog/Pole</td> <td>14</td> <td></td> </tr> <tr> <td>Red Pine</td> <td>46</td> <td>Log/XLog</td> <td>15</td> <td>106</td> </tr> <tr> <td>Quaking Aspen</td> <td>7</td> <td>Pole/Log</td> <td>8</td> <td></td> </tr> <tr> <td>White Oak</td> <td>1</td> <td>Log/XLog</td> <td>15</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Red Maple	20	Pole/Sapling	5	44	White Pine	21	Log/Pole/XLog	13		Red Oak	5	Log/XLog/Pole	14		Red Pine	46	Log/XLog	15	106	Quaking Aspen	7	Pole/Log	8		White Oak	1	Log/XLog	15		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Red Maple</td> <td>High</td> <td>>20 feet</td> <td>Sapling</td> </tr> <tr> <td>White Pine</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>White Ash</td> <td>Trace</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Beech</td> <td>Trace</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Autumn Olive</td> <td>Low</td> <td>5 - 10 feet</td> <td>Tall Shrub</td> </tr> <tr> <td>White Spruce</td> <td>Trace</td> <td>Variable</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Red Maple	High	>20 feet	Sapling	White Pine	Medium	Variable	Sapling	White Ash	Trace	Variable	Sapling	Beech	Trace	Variable	Sapling	Autumn Olive	Low	5 - 10 feet	Tall Shrub	White Spruce	Trace	Variable	Sapling
Canopy Species	% Cover	Size Class	DBH	Age																																																														
Red Maple	20	Pole/Sapling	5	44																																																														
White Pine	21	Log/Pole/XLog	13																																																															
Red Oak	5	Log/XLog/Pole	14																																																															
Red Pine	46	Log/XLog	15	106																																																														
Quaking Aspen	7	Pole/Log	8																																																															
White Oak	1	Log/XLog	15																																																															
Sub-Canopy Species	Density	Avg. Height	Size																																																															
Red Maple	High	>20 feet	Sapling																																																															
White Pine	Medium	Variable	Sapling																																																															
White Ash	Trace	Variable	Sapling																																																															
Beech	Trace	Variable	Sapling																																																															
Autumn Olive	Low	5 - 10 feet	Tall Shrub																																																															
White Spruce	Trace	Variable	Sapling																																																															