



Compartment Review Presentation

Roscommon Forest Management Unit

Compartment 71021

Entry Year 2022

Acreage: 2,562

County Roscommon

Management Area: Upper Muskegon

Revision Date: 2020-05-04

Stand Examiner: Brian Martell

Legal Description:

T23N R03W, Sections 9, 16, 21, 28

Identified Planning Goals:

Vegetation management in the Upper Muskegon management area (MA) will provide forest products; maintain or enhance wildlife habitat; protect areas of unique threatened, endangered, and special concern species; and provide for forest-based recreational uses.

Soil and topography:

The compartment is within a large outwash plain where the site quality is primarily driven by the depth to the water table. Soils consist primarily of Graycolm, Grayling, and Croswell sands in the upland areas, or Lupton mucks in the lowland areas.

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

This compartment and surrounding area are all state land except for a private piece adjacent to the western edge of NWNW Sec. 9.

Unique Natural Features:

Kirtland's Warbler was observed in section 21 in 2010.

Archeological, Historical, and Cultural Features:

None listed in the database and none found during inventory.

Special Management Designations or Considerations:

None.

Watershed and Fisheries Considerations:

One small intermittent tributary of Wolf Creek flows through the northwest corner of the compartment and one of Townline Creek in section 21. Lowlands in the compartment feed both Wolf Creek and Townline Creek, which eventually flow to the Muskegon River.

Wildlife Habitat Considerations:

The compartment is important to deer, turkey, grouse and woodcock. Black bear also frequent the compartment. This compartment sees moderate to heavy pressure for hunting. Management considerations include treatments that will promote hard and soft mast production for wildlife including retention of large crown mast producing trees when possible. Early successional species such as aspen should be managed to ensure young stands are always available for grouse and woodcock. To promote snowshoe hare and other small mammals, brush piles will be constructed in association with timber harvests along lowland edges. Brush pile specifications should follow recommendations provided by Wildlife Division. Aspen stands will be managed to promote young forests for early successional wildlife species. Whenever possible, aspen harvests will include drumming logs to enhance breeding habitat for ruffed grouse. Kirtland's Warblers have been documented within the compartment, so the timing of Jack Pine harvests should be set with the consideration for the possible presence of this rare species. Currently there are no managed wildlife openings within the compartment.

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 pit is more than four miles northwest of the compartment. Sand & gravel potential in the compartment appears to be good in places and very poor in others. Numerous wetlands occur across the area, which could inhibit surface development. Part of the Headquarters oil field extends into the southern end of the compartment and borders to the southwest. The field is mostly abandoned. There has been recent leasing activity around the edges of the field including within the compartment, and there is some potential that for additional future drilling within the southern part of the compartment.

Vehicle Access:

This compartment is very accessible. There are roads to access almost every upland stand.

Survey Needs:

None.

Recreational Facilities and Opportunities:

Snowmobile trails 6 and 654 run through the middle of the compartment and there is an ATV trail towards the south end of the compartment. The county roads are heavily used year round by both conventional vehicles and ORVs. Hunting opportunities are strong within the compartment, too.

Fire Protection:

Low fire occurrence history in this compartment. Some high hazard fuels in north part of compartment but not large enough to be a significant risk.

Additional Compartment Information:**The following reports from the Inventory are attached:**

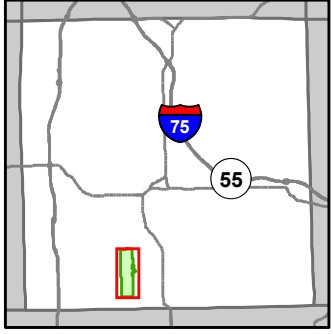
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

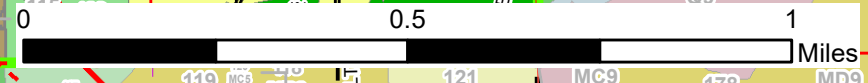
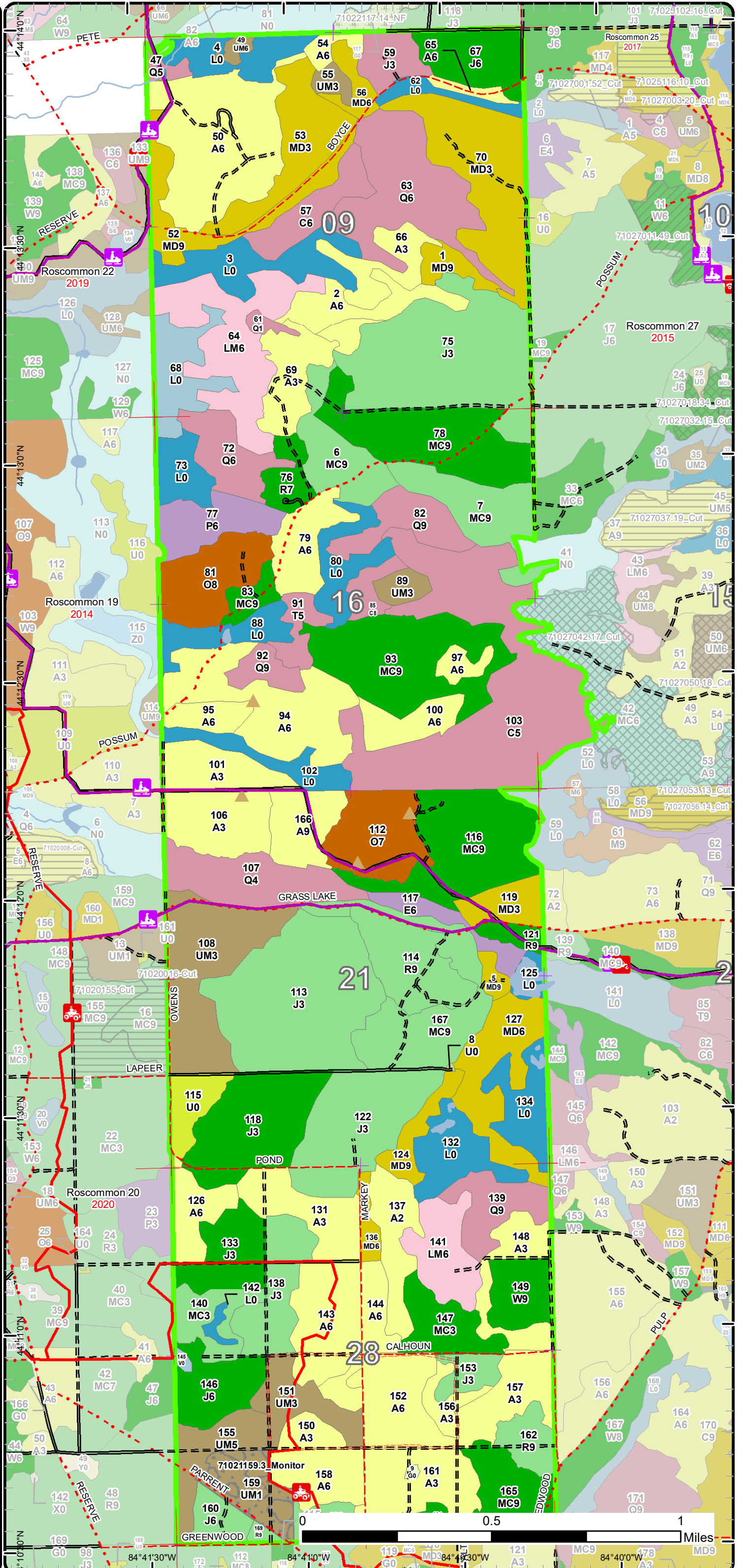
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 21
 T21N, R03W, Sec. 9, 15, 16, 21, 28
 County: Roscommon
 Unit: Roscommon
 Mgmt Area: Upper Muskegon
 YOE: 2022
 Acres: 2562.4 GIS Calculated
 Examiner: Brian Martell
 Map Revised: 1/26/2021
 Map Phase: Post-Review



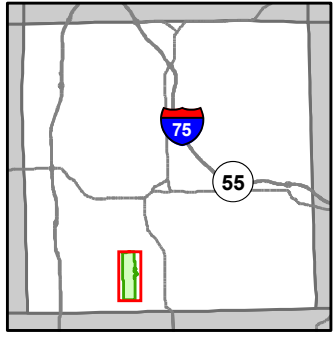
- Miris Corners
- + Remonumented Section Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- ORV Trails
- ORV Routes
- Snowmobile Trails
- Designated ATV Trails
- Designated ORV Route
- Designated Snowmobile Trails
- Lake/Pond
- Perennial River
- Lakes and Rivers
- ▲ Berms
- Culvert
- Compartment Boundary
- Regeneration Survey
- 412 - Oak Types
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 330 - Low Density Trees
- 622 - Lowland Shrub
- 629 - Mixed Non-forested Wetland



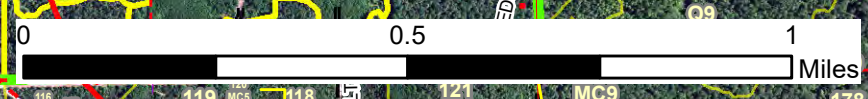
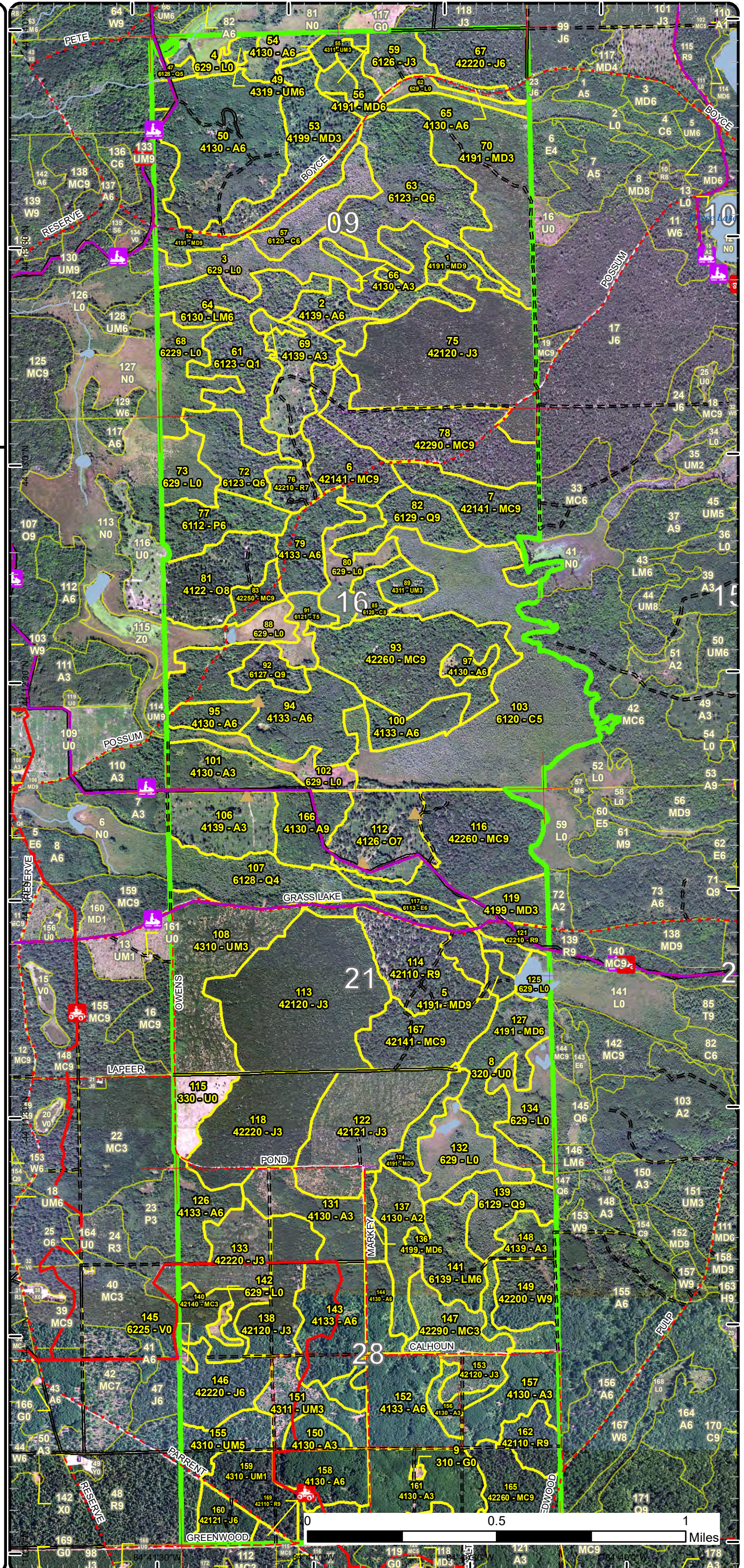
84°41'30"W 84°41'00"W 84°40'30"W 84°40'00"W

Stand Boundary Map

Compartment: 21
 T21N, R03W, Sec. 9, 15, 16, 21, 28
 County: Roscommon
 Unit: Roscommon
 Mgmt Area: Upper Muskegon
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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	52	134	162	145	58	43	0	0	0	0	0	0	0	0	0	0	0	594
Bog	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Cedar	0	0	0	0	0	0	0	0	0	0	0	0	0	20	136	0	0	0	156
Herbaceous Openland	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Jack Pine	0	0	103	271	0	50	0	0	0	0	0	0	0	0	0	0	0	0	424
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	0	0	23	0	0	0	0	0	0	0	0	0	0	0	23
Lowland Conifers	0	0	0	0	0	0	0	22	0	10	80	58	0	4	0	0	0	0	174
Lowland Deciduous	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0	0	12
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	79	0	0	0	0	0	0	0	0	79
Lowland Shrub	201	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	201
Mixed Upland Deciduous	0	35	74	0	6	8	8	37	26	0	12	4	0	0	0	0	0	0	210
Natural Mixed Pines	0	0	21	0	0	0	60	57	8	30	0	0	0	0	62	0	0	0	238
Oak	0	0	0	0	0	0	0	0	0	32	0	33	0	0	0	0	0	0	65
Planted Mixed Pines	0	0	0	17	0	0	0	0	0	80	0	0	0	0	0	0	0	27	124
Red Pine	0	0	0	0	0	0	0	12	0	61	0	6	0	0	0	0	0	0	79
Tamarack	0	0	0	0	0	0	0	10	0	0	0	0	0	0	0	0	0	0	10
Upland Mixed Forest	0	22	82	7	22	0	3	0	0	0	0	0	0	0	0	0	0	0	136
Upland Shrub	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
White Pine	0	0	0	0	0	0	19	0	0	0	0	0	0	0	0	0	0	0	19
Total	217	109	414	457	173	116	168	116	56	40	344	62	39	24	198	0	0	27	2560



Report 2 – Treatment Summary

Roscommon Mgt. Unit
Year of Entry: 2022

Acres of Harvest

Compartment 21
Total Compartment Acres: 2,562

Commercial Harvest - 168
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	22	0	0	0	0	0	0	0	0	22
Mixed Upland Deciduous	23	0	0	0	0	12	0	0	0	34
Natural Mixed Pines	57	0	0	0	0	8	0	0	0	65
Planted Mixed Pines	0	0	0	0	0	47	0	0	0	47
Total	102	0	0	0	0	66	0	0	0	168

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	168	0	0	0	0	0	22	0	0	190
Next Step	0	22	22	0	0	0	145	0	0	188
Total	168	22	22	0	0	0	166	0	0	377



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
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Proposed Treatments:

52	71021052-Cut	22.6	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	76	111- 140	Harvest	Clearcut with Retention	4139 - Aspen, Mixed Deciduous	Even-Aged	No
<u>Prescription</u> Cut all species down to 2 inches at DBH. Leave a handful of white oak and all pine 24 inches at DBH or bigger. Leave a few brush piles south of the road along the lowland edge. Line out wet ground along the south lowland edge for retention.											
<u>Specs:</u>											
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)											
<u>Treatments:</u>											
<u>Acceptable</u> Fully stocked stand of aspen, red maple, oak, and white pine.											
<u>Regen:</u>											
<u>Other</u> Cut the strip south of the road as far south as possible as the low ground will allow. Snowmobile and ORV Route runs on county road.											
<u>Comment:</u> Protect with the appropriate specs.											
<u>Site Condition</u>											
<u>Proposed Start Date:</u> 10/1 /2021											
83	71021083-Cut	8.0	42250 - Pine, Oak	Sawtimber Well	70	111- 140	Harvest	Crown Thinning	4220 - Natural White Pine	Even-Aged	No
<u>Prescription</u> Spec cut all red/black hybrid oak and aspen. Thin the rest of the species down to 70 to 90 BA by quality and spacing.											
<u>Specs:</u>											
<u>Next Step</u>											
<u>Treatments:</u>											
<u>Acceptable</u>											
<u>Regen:</u>											
<u>Other</u>											
<u>Comment:</u>											
<u>Site Condition</u>											
<u>Proposed Start Date:</u> 10/1 /2021											
116	71021116-Cut	57.3	42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	64	111- 140	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	No
<u>Prescription</u> Cut all trees at 2" DBH and larger. Leave 5 to 10 BA of good quality red and white pine where available as retention. Leave all white oak.											
<u>Specs:</u>											
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)											
<u>Treatments:</u>											
<u>Acceptable</u> A fully stocked to stand of aspen, oak, red maple, and pine.											
<u>Regen:</u>											
<u>Other</u> A small portion of the south end of the stand looks to be a little wet and may need to be excluded at time of sale prep. Snowmobile and ORV											
<u>Comment:</u> Route runs on county road. Protect with the appropriate specs.											
<u>Site Condition</u>											
<u>Proposed Start Date:</u> 10/1 /2021											

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Treatment ID	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
124	71021124-Cut	11.8	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	98	81-110	Harvest	Crown Thinning	4220 - Natural White Pine	Even-Aged	No
<p><u>Prescription</u> Cut all trees 2" DBH and greater except for white pine and white oak. Mark some white pine where needed for operability and spacing.</p> <p><u>Specs:</u> Protect advanced regeneration of white pine.</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> 10/1 /2021</p>											
166	71021166-Cut	21.6	4130 - Aspen	Sawtimber Well	55		Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Cut all species down to 1 inch dbh. Mark a handful of nice white oak for mast. Leave about 3% retention probably along lowland boundaries.</p> <p><u>Specs:</u> Include drumming log specs and brush pile specs along lowland edges.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Fully stocked aspen with other species mixed in.</p> <p><u>Regen:</u></p> <p><u>Other</u> Snowmobile and ORV Route runs on county road. Protect with the appropriate specs.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											
167	71021167-Cut	46.6	42141 - Planted Mixed Pine, Mixed Deciduous	Sawtimber Well	92	111-140	Harvest	Crown Thinning	42140 - Planted Mixed Pine	Two-Aged	No
<p><u>Prescription</u> Spec cut all jackpine, black/red hybrid oak, and aspen. Thin the rest down to about 90 BA based on quality and spacing.</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> Snowmobile and ORV Route runs on county road. Protect with the appropriate specs</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											

Approved Treatments:

159	71021159.3_Monitor	21.6	4310 - Pine, Oak Mix	Sapling Poor	5	Immature	Monitoring	Natural Regen (Intermediate)	4122 - Oak, Pine	Even-Aged	No
<p><u>Prescription</u> check amount of HW regeneration after Sept 2017</p> <p><u>Specs:</u></p> <p><u>Next Step</u> SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> any combination of hardwoods and pine to a fully stocked stand is acceptable</p> <p><u>Regen:</u></p> <p><u>Other</u> Percent to Treat = 100%</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p>											



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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Proposed Start Date: 10/1 /2018

Total Treatment
Acreage Proposed: 189.5

Report 4 – Site Conditions

Roscommon Mgt. Unit
 Brian Martell : Examiner

Compartment: 21
 Year of Entry: 2022

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions						
		With Condition	Not Available		5B	5C	2G	2H	3G	5E	
592	547	21	24	Aspen		21	17	6			1
1	1	0	0	Bog							
156	0	0	156	Cedar			156				
1	1	0	0	Herbaceous Openland							
424	424	0	0	Jack Pine							
14	14	0	0	Low-Density Trees							
23	0	0	23	Lowland Aspen/Balsam Poplar			23				
177	0	0	177	Lowland Conifers			177				
12	0	0	12	Lowland Deciduous			12				
79	0	0	79	Lowland Mixed Forest			54		25		
201	201	0	0	Lowland Shrub			0	0	0		
210	207	0	3	Mixed Upland Deciduous							3
239	86	90	62	Natural Mixed Pines	90			62	0		
65	0	63	2	Oak	63						2
124	64	60	0	Planted Mixed Pines	27	33					
80	12	65	2	Red Pine		65					2
10	0	0	10	Tamarack			10				
135	128	0	7	Upland Mixed Forest				7			
0	0	0	0	Upland Shrub							
19	19	0	0	White Pine							
2,562	1,706	300	557	Total Forested Acres	180	120	449	75	25		8
	67%	12%	22%	Relative Percent							

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

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	79	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Roscommon Mgt. Unit
 Brian Martell : Examiner

Compartment: 21
 Year of Entry: 2022

2	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	102	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
3	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	48	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Roscommon Mgt. Unit
 Brian Martell : Examiner

Compartment: 21
 Year of Entry: 2022

8	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	157	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
9	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Stand meets silvicultural criteria but was just thinned a few years ago. Wait until next planning cycle and re-evaluate.							
10	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	20	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
12	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Stand meets silvicultural criteria but was just thinned a few years ago. Re-evaluate during next planning cycle.							

Report 4 – Site Conditions

Roscommon Mgt. Unit
 Brian Martell : Examiner

Compartment: 21
 Year of Entry: 2022

13	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	17	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Habitat cut with stand to the west							
14	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	22	5A: Not able to obtain desirable regeneration	Unspecified	Unspecified	Unspecified
Comments:							
15	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	33	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Stand meets silvicultural criteria but was just thinned a few years ago.							
16	Available	5B: Maintain for regeneration purposes	31	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
17	Available	5B: Maintain for regeneration purposes	32	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
18	Unavailable	3G: Other Influence zones - See comments	25	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Riparian corridor							

Report 4 – Site Conditions

Roscommon Mgt. Unit
 Brian Martell : Examiner

Compartment: 21
 Year of Entry: 2022

19	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	68	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
20	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	21				
Comments:							
21	Available	5B: Maintain for regeneration purposes	27	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
22	Available	5B: Maintain for regeneration purposes	54	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
23	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	33				
Comments: Meets silvicultural criteria. Allow more of the white pine to reach log size before restarting this stand.							
24	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Roscommon Mgt. Unit

Brian Martell : Examiner

Compartment: 21

Year of Entry: 2022

25	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
26	Available	5B: Maintain for regeneration purposes	37	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Mgt. Unit

Compartment: #Type!

Year of Entry:



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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments



Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

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

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

Conservation Area	Type	Description
SCA	Cold Water Lake	A coldwater lake has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species to persist from year to year. Suitable conditions for coldwater fishes may occur in Michigan lakes if they are relatively deep, have substantial groundwater inflows, or are located in colder (northern) areas of the state. Such lakes are established by Director's action and designated as trout resources by Fisheries Order 200.
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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1 4191 - Mixed Upland Deciduous with Conifer Sawtimber Well 8.3 46 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	33	Pole/Log	9	46
Red Maple	32	Log/Pole	10	
White Pine	20	Log/Pole	10	
Jack Pine	5	Log	12	
Jack Pine	5	Pole/Log	8	
Black/Red (Hybrid) Oak	5	Log/Pole	10	

Sub-Canopy Species	Density	Avg. Height	Size
White Pine	Medium	Variable	Sapling
Balsam Fir	Low	Variable	Sapling

2 4139 - Aspen, Mixed Deciduous Poletimber Well 19.6 40 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	40	Pole/Sapling	7	40
Bigtooth Aspen	10	Log	14	
Northern Pin Oak	15	Log/Pole	10	
Black Cherry	5	Sapling	3	28
White Pine	5	Log/Pole	13	
Red Maple	15	Log/Pole	10	
Balsam Fir	10	Pole	7	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Medium	< 5 feet	Sapling
Balsam Fir	Low	5 - 10 feet	Sapling
Black Cherry	Low	< 5 feet	Sapling
White Pine	Low	Variable	Sapling

3 629 - Mixed non-forested wetland Nonstocked 30.2 0 No

4 629 - Mixed non-forested wetland Nonstocked 19.2 No Some areas on edges of stand have pole sized tamarack and balsam fir.

5 4191 - Mixed Upland Deciduous with Conifer Sawtimber Well 4.4 101 111-140 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Pine	25	Log/Pole	12	
Black/Red (Hybrid) Oak	56	Log/Pole	12	101
Red Maple	5	Pole	7	
Black Cherry	2	Pole/Sapling	7	
Bigtooth Aspen	1	Pole/Log	9	
White Oak	3	Log/Pole/XLog	10	
White Pine	8	Pole/Log	9	

Sub-Canopy Species	Density	Avg. Height	Size
White Pine	Medium	Variable	Sapling
Red Maple	Low	Variable	Sapling
Black/Red (Hybrid) Oak	Low	Variable	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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6 42141 - Planted Mixed Pine, Mixed Deciduous Sawtimber Well 26.8 131 111-140 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	10	Pole/Log	8	56
White Oak	2	Log/Pole	10	76
Black/Red (Hybrid) Oak	10	Log/Pole	10	56
White Pine	37	Log/Pole/XLog	12	131
Red Pine	36	Log/Pole/XLog	12	93
Jack Pine	3	Log/Pole	10	76
Bigtooth Aspen	2	Log/Pole	10	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Low	Variable	Sapling
White Pine	Medium	Variable	Pole
Red Pine	Low	Variable	Sapling
Balsam Fir	Low	Variable	Sapling

7 42141 - Planted Mixed Pine, Mixed Deciduous Sawtimber Well 33.0 96 111-140 N/A Closer to the lowland has the Xlogs and the density is higher.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	15	Pole/Log	9	
White Oak	5	Log	12	
Bigtooth Aspen	5	Log/Pole	13	
Black/Red (Hybrid) Oak	15	Log/Pole	12	
White Pine	28	Log/Pole/XLog	12	96
Red Pine	32	Log/Pole/XLog	14	96

Sub-Canopy Species	Density	Avg. Height	Size
Northern Pin Oak	Low	< 5 feet	Sapling
Balsam Fir	Medium	Variable	Sapling
White Pine	Medium	Variable	Sapling

8 320 - Upland Shrub Nonstocked 0.2 0 Unspecified No long abandoned well site, lots of trees encroaching on edges

9 310 - Herbaceous Openland Nonstocked 0.7 0 Unspecified No Old Well Site, plugged 1955, scattered aspen regeneration on edges

47 6128 - Lowland Coniferous, Mixed Deciduous Poletimber Medium 4.2 121 N/A Small lowland stand. It includes a cedar pocket around where the snowmobile trail crosses the creek.

Canopy Species	% Cover	Size Class	DBH	Age
Balsam Fir	37	Pole/Sapling	5	
Northern White Cedar	40	Pole/Log	9	121
Tamarack	3	Pole/Log	8	
Paper Birch	2	Pole	7	
Red Maple	15	Pole/Log	8	
Quaking Aspen	3	Log	12	

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

49 4319 - Mixed Upland Forest Poletimber Well 3.3 51 51-80 N/A Upland island in the middle of lowland.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	43	Log/Pole	11	51
Paper Birch	5	Log	12	
Balsam Fir	47	Pole/Log	8	51
White Pine	5	Log/Pole	12	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Medium	>20 feet	Pole
Tag Alder	Low	5 - 10 feet	Tall Shrub
Balsam Fir	Low	Variable	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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50 4130 - Aspen Poletimber Well 72.8 28 Immature N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	3	Sapling/Pole	3	28	White Oak	Medium	5 - 10 feet	Sapling
Quaking Aspen	25	Sapling/Pole	3	28	Northern Pin Oak	Medium	5 - 10 feet	Sapling
Bigtooth Aspen	52	Pole/Sapling	5	28	Black Cherry	Medium	5 - 10 feet	Sapling
Northern Pin Oak	10	Sapling/Pole	4	28				
White Pine	5	Pole/Sap/Log	5					
Black Cherry	5	Sapling/Pole	3	28				

52 4191 - Mixed Upland Deciduous with Conifer Sawtimber Well 25.6 76 111-140 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	18	Pole/Log	9		Balsam Fir	Low	Variable	Sapling
White Oak	3	Log/XLog	16		White Pine	High	Variable	Sapling
Bigtooth Aspen	17	Log/Pole	10		Red Maple	Low	>20 feet	Sapling
Black/Red (Hybrid) Oak	20	Log/Pole	12		White Oak	Trace	5 - 10 feet	Sapling
White Pine	30	Log/Pole/XLog	12	76				
Red Pine	7	Log/XLog/Pole	14	76				
Quaking Aspen	5	Pole/Sapling	7					

53 4199 - Other Mixed Upland Deciduous Sapling Well 34.8 9 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Oak	15	Log/Pole	10		White Pine	Low	Variable	Sapling
Black/Red (Hybrid) Oak	24	Log	14	96	Witch Hazel	Low	5 - 10 feet	Tall Shrub
White Pine	10	Log/Pole	12		Black Cherry	Medium	Variable	Sapling
Red Maple	26	Sapling/Pole	2	9				
Quaking Aspen	25	Sapling	1	9				

Cut Jan/Feb 2013, oak was left scattered fairly evenly throughout the stand. Pine was also left in a few patches mostly in the southwest portion of the stand. The rest of the stand regenerated to red maple and aspen.

54 4130 - Aspen Poletimber Well 5.3 39 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	5	Sapling/Pole	4		Black Cherry	Low	< 5 feet	Sapling
Quaking Aspen	80	Pole/Sapling	5	39	White Pine	Low	Variable	Sapling
Northern Pin Oak	10	Pole/Sapling	5					
Black Cherry	3	Sapling/Pole	4					
White Pine	2	Log/Pole	12					

Cut as a habitat cut with an FTP dated March 1982.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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55 4311 - Pine, Aspen Mix Sapling Well 4.8 17 Immature N/A Stand was cut in 2003 and FTP says it was seeded in 2004.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	15	Sapling	1	18
Quaking Aspen	30	Sapling	2	18
Jack Pine	50	Sapling	2	17
Black/Red (Hybrid) Oak	5	Sapling	2	

56 4191 - Mixed Upland Deciduous with Conifer Poletimber Well 8.4 51 51-80 N/A Mixed stand. South part is mostly red maple, north part is mostly aspen, and middle is lowland.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	30	Pole	8	51
Paper Birch	1	Pole	6	
Quaking Aspen	30	Pole	7	51
Northern Pin Oak	10	Log/Pole	10	
Balsam Fir	5	Pole	7	
Black Spruce	5	Pole/Log	8	
White Pine	8	Log/Pole/XLog	12	
Jack Pine	10	Pole	7	
Tamarack	1	Pole/Log	8	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Medium	Variable	Sapling
Balsam Fir	Low	Variable	Sapling
Black Spruce	Low	Variable	Sapling
White Pine	Medium	Variable	Sapling
Black Cherry	Low	Variable	Sapling
Tag Alder	Low	Variable	Tall Shrub

57 6120 - Lowland Cedar Poletimber Well 20.0 126 N/A Dead standing black ash also present.

Canopy Species	% Cover	Size Class	DBH	Age
Paper Birch	5	Pole	8	
Balsam Fir	10	Pole	6	
Northern White Cedar	75	Pole/Log	9	126
Red Maple	5	Pole/Sapling	5	
Quaking Aspen	5	Log	12	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	High	>20 feet	Sapling
Tag Alder	Low	5 - 10 feet	Tall Shrub

59 6126 - Lowland Jack Pine Sapling Well 13.8 17 Immature N/A Stand was cut in 2003. FTP says stand was seeded in 2004. The stand has some lowland bog inclusions.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	5	Sapling	3	18
Quaking Aspen	25	Sapling	2	18
Northern Pin Oak	5	Sapling	3	18
Jack Pine	55	Sapling	3	17
Black Cherry	3	Sapling	2	18
Black Spruce	1	Sapling	2	
White Pine	3	Sapling	3	
Red Pine	1	Sapling	3	
Tamarack	2	Sapling	2	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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61	6123 - Lowland Fir	Sapling Poor	2.9	101	1-50	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Balsam Fir		85	Sapling/Pole/Log	4	101	Tag Alder	
Red Maple		5	Sapling/Pole	3		Full	
Black Spruce		10	Sapling/Pole/Log	4		5 - 10 feet	
						Tall Shrub	

62	629 - Mixed non-forested wetland	Nonstocked	7.5		Immature	No	
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63	6123 - Lowland Fir	Poletimber Well	58.6	96		N/A	Aspen is located on upland pockets.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Maple		15	Log/Pole	10		Red Maple	
Balsam Fir		55	Pole	7	96	Low	
Black Spruce		5	Pole/Log	8		High	
Northern White Cedar		10	Log/Pole	10		Variable	
Quaking Aspen		15	Pole/Log	9		Sapling	
						Sapling	
						Tag Alder	
						High	
						10 - 20 feet	
						Tall Shrub	

64	6130 - Fir, Aspen, Maple	Poletimber Well	54.0	96	51-80	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Maple		25	Log/Pole/Sap	10	96	Black/Red (Hybrid) Oak	
Paper Birch		1	Pole	8		Trace	
Quaking Aspen		20	Log/Pole	10		Medium	
Balsam Fir		35	Pole/Sap/Log	6	96	Variable	
Black Spruce		16	Pole/Sap/Log	6		Sapling	
White Pine		2	Log	12		Sapling	
Black/Red (Hybrid) Oak		1	Pole	8		Sapling	
						Tag Alder	
						Medium	
						10 - 20 feet	
						Tall Shrub	

65	4130 - Aspen	Poletimber Well	4.0	49		N/A	Skinny strip along the road.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Maple		10	Pole/Log	8		Northern Pin Oak	
Quaking Aspen		75	Pole/Log	8	49	Low	
Balsam Fir		5	Pole	5		Variable	
White Pine		2	Log/Pole	10		Sapling	
Jack Pine		5	Pole	5		Sapling	
Black/Red (Hybrid) Oak		3	Pole/Log/Sap	8		Sapling	
						Black Cherry	
						Low	
						Variable	
						Sapling	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																
66	4130 - Aspen	Sapling Well	23.1	28	Immature	N/A																																																	
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67	42220 - Natural Jack Pine	Poletimber Well	26.2	44	1-50	N/A	FTP says stand was aerial seeded to jack pine in 1977 with a larger area in contiguous compartments. Imagery looks like the larger area might have originated from a fire.																																																
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68	6229 - Mixed lowland shrub	Nonstocked	24.5			No	Has some scattered dead ash and mature balsam fir.																																																
69	4139 - Aspen, Mixed Deciduous	Sapling Well	22.6	9	Immature	N/A	Stand cut in Jan/Feb 2013.																																																
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70	4191 - Mixed Upland Deciduous with Conifer	Sapling Well	60.3	17	Immature	N/A	Stand was cut in 2003 and FTP says it was seeded to jack pine in 2004.																																																
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72	6123 - Lowland Fir	Poletimber Well	22.0	60	81-110	N/A																																																	
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Tag Alder	Medium	10 - 20 feet	Tall Shrub																																																				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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73 629 - Mixed non-forested wetland Nonstocked 14.8 No

75 42120 - Planted Jack Pine Sapling Well 90.2 27 Immature N/A Cut in 1993 then trenched and seeded to jack pine in 1994 and re-seeded in 1995.

Canopy Species	% Cover	Size Class	DBH	Age
Bigtooth Aspen	1	Sapling	2	28
Northern Pin Oak	13	Sapling	3	28
Jack Pine	80	Sapling	3	27
Black Cherry	5	Sapling	2	28
White Pine	1	Log/Pole	10	

76 42210 - Natural Red Pine Sawtimber Poor 12.3 76 1-50 N/A Stand cut in Jan/Feb 2013.

Canopy Species	% Cover	Size Class	DBH	Age
White Oak	3	Pole/Log	9	
Northern Pin Oak	2	Log	12	96
White Pine	5	Log/Pole	10	
Red Pine	90	Log/XLog/Pole	14	76

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Medium	10 - 20 feet	Sapling
Balsam Fir	Low	Variable	Sapling
White Pine	Low	Variable	Sapling
Black Cherry	Low	5 - 10 feet	Sapling
Witch Hazel	Low	Variable	Tall Shrub
Quaking Aspen	High	10 - 20 feet	Sapling
Black/Red (Hybrid) Oak	Low	>20 feet	Sapling

77 6112 - Lowland Aspen Poletimber Well 23.1 51 51-80 N/A The east end of the stand is more dense, has more log sized aspen, and has more balsam understory.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	25	Log/Pole	12	
Quaking Aspen	40	Pole/Log	9	51
Black/Red (Hybrid) Oak	13	Pole/Log	9	
White Pine	12	Log/Pole	12	
Balsam Fir	8	Pole/Log	8	
Black Spruce	2	Pole/Log	8	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Medium	10 - 20 feet	Sapling
White Pine	Low	Variable	Sapling
Black Cherry	Low	5 - 10 feet	Sapling
Red Maple	Medium	10 - 20 feet	Sapling
Tag Alder	Medium	5 - 10 feet	Tall Shrub

78 42290 - Natural Mixed Pine Sawtimber Well 53.5 56 111-140 N/A Records indicate planting of red pine and jack pine in 1928. Likely some various disturbances since then. Has multiple size classes of white pine. Stand is dominated by poles and small logs in several locations with heavy white pine understory.

Canopy Species	% Cover	Size Class	DBH	Age
Black/Red (Hybrid) Oak	7	Log/Pole	12	93
White Pine	50	Log/Pole/XLog	10	56
Red Pine	8	Log/Pole	12	93
Jack Pine	35	Log/Pole	10	73

Sub-Canopy Species	Density	Avg. Height	Size
Northern Pin Oak	Low	< 5 feet	Sapling
White Pine	High	>20 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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79 4133 - Aspen, Mixed Pine Poletimber Well 21.3 51 81-110 N/A There is a culvert of Possum Trail in this stand.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	10	Pole/Log	9		Balsam Fir	Medium	Variable	Sapling
Quaking Aspen	20	Pole/Log	8	51	White Pine	Medium	Variable	Sapling
White Pine	30	Log/Pole/XLog	12		Tag Alder	Low	10 - 20 feet	Tall Shrub
Red Pine	5	Log	14					
Black/Red (Hybrid) Oak	5	Log/Pole	12					
Balsam Fir	3	Pole/Sapling	5					
Black Spruce	2	Pole/Sapling	5					
Bigtooth Aspen	23	Pole/Log	9	51				
White Oak	2	Log/Pole	10					

80 629 - Mixed non-forested wetland Nonstocked 18.6 No

81 4122 - Oak, Pine Sawtimber Medium 31.9 96 1-50 N/A Stand was cut in Jan/Feb 2013.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Oak	5	Log/Pole	10		White Oak	Low	>20 feet	Sapling
Black/Red (Hybrid) Oak	55	Log/Pole	12	96	White Pine	Low	Variable	Sapling
White Pine	35	Log/Pole	10		Black Cherry	Low	5 - 10 feet	Sapling
Red Pine	5	Log/XLog/Pole	14		Witch Hazel	Low	< 5 feet	Tall Shrub
					Bigtooth Aspen	High	10 - 20 feet	Sapling
					Red Maple	Medium	5 - 10 feet	Sapling
					Black/Red (Hybrid) Oak	Low	Variable	Sapling

82 6129 - Mixed Coniferous Lowland Forest Sawtimber Well 21.1 96 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	3	Pole/Log/Sap	7		Black Spruce	Medium	Variable	Sapling
Black Spruce	45	Pole/Log	8	96	Tag Alder	Medium	10 - 20 feet	Tall Shrub
White Pine	5	XLog/Log	18		Balsam Fir	Low	Variable	Sapling
Northern White Cedar	45	Log/Pole	10					
Paper Birch	2	Pole	8					

83 42250 - Pine, Oak Sawtimber Well 8.0 70 111-140 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	5	Pole/Log	9		White Pine	Medium	Variable	Sapling
White Oak	8	Log/Pole	10		Red Maple	Low	>20 feet	Sapling
Bigtooth Aspen	5	Pole/Log	8	56				
Black/Red (Hybrid) Oak	22	Log/Pole	11					
White Pine	55	Log/Pole/XLog	10	70				
Red Pine	5	Log/Pole	13					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
85	6120 - Lowland Cedar	Sawtimber Medium	7.9	136		N/A	Lots of standing dead ash.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Maple		25	Pole/Sap/Log	8		Balsam Fir	
Northern White Cedar		65	Log/Pole	10	136	Tag Alder	
White Pine		5	Pole	8			
Balsam Fir		5	Pole/Sapling	5			
88	629 - Mixed non-forested wetland	Nonstocked	17.1		Immature	No	
89	4311 - Pine, Aspen Mix	Sapling Well	6.8	28	Immature	N/A	Upland knob that was done part commercial and part by habitat cut. Balsam fir and white pine is mostly near the outside edge.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Maple		15	Sapling/Pole	4	28	Red Maple	
Quaking Aspen		25	Sapling	3	28	Black/Red (Hybrid) Oak	
Bigtooth Aspen		15	Sapling/Pole	4	28	Balsam Fir	
Balsam Fir		15	Pole/Sapling	6	28	Black Cherry	
White Pine		30	Pole/Sap/Log	7	28		
91	6121 - Tamarack	Poletimber Medium	10.2	76	1-50	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Tamarack		95	Pole/Sapling	5	76	Tamarack	
White Pine		5	Sapling/Pole	4		White Pine	
92	6127 - Lowland Pine	Sawtimber Well	9.7	86	111-140	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Black Spruce		5	Pole/Log	9		Red Maple	
Tamarack		5	Log/Pole	10		Black Spruce	
White Pine		50	Log/XLog/Pole	14	86	Tamarack	
Red Pine		35	Log	14	86	Black Cherry	
Jack Pine		5	Log/Pole	10			
93	42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	62.1	136	141-170	N/A	Natural two-aged pine stand. Red pine dominated in central and southeast portion and white pine dominated to the northwest. Pockets throughout are dominated by aspen and maple. Some small areas don't have the younger component and are dominated by Xlog white pine, but most of it is two-aged. Very unique stand.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Maple		13	Pole/Log	9	74	Red Maple	
Bigtooth Aspen		20	Log/Pole	13	74	Northern Pin Oak	
Black/Red (Hybrid) Oak		5	Log	14	136	Balsam Fir	
White Pine		30	Log/XLog/Pole	14	136	White Pine	
Red Pine		30	Log/Pole/XLog	12	74	Black Spruce	
White Oak		2	Log	12		White Oak	
						Witch Hazel	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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94 4133 - Aspen, Mixed Pine Poletimber Well 54.0 38 N/A Cut in 1983 as a part of "Block 264."

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	5	Pole/Sap/Log	6		Northern Pin Oak	Low	5 - 10 feet	Sapling
Quaking Aspen	30	Pole/Sapling	6	38	Balsam Fir	Medium	Variable	Sapling
Bigtooth Aspen	28	Pole	7	38	White Pine	Medium	Variable	Sapling
Balsam Fir	3	Pole	6		Black Cherry	Low	5 - 10 feet	Sapling
White Pine	30	Log/Pole	13		Tag Alder	Low	10 - 20 feet	Tall Shrub
Black Cherry	2	Pole	6					
Red Pine	1	Pole/Log	9					
Black/Red (Hybrid) Oak	1	Log/Pole	10					

95 4130 - Aspen Poletimber Well 10.2 28 Immature N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	10	Sapling/Pole	3		White Oak	Low	10 - 20 feet	Sapling
Bigtooth Aspen	60	Pole/Sapling	5	28	Northern Pin Oak	Low	10 - 20 feet	Sapling
White Pine	15	Pole/Sapling	5		White Pine	Low	Variable	Sapling
Black Cherry	5	Sapling/Pole	3		Black Cherry	Low	10 - 20 feet	Sapling
Black/Red (Hybrid) Oak	10	Sapling/Pole	4		Red Maple	Low	10 - 20 feet	Sapling
					Balsam Fir	Low	Variable	Sapling

97 4130 - Aspen Poletimber Well 6.0 28 Immature N/A Small opening in west part of stand has some red maple and oak.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	3	Sapling/Pole	4	28	Red Maple	Medium	5 - 10 feet	Sapling
Bigtooth Aspen	90	Pole/Sapling	5	28	Balsam Fir	Low	Variable	Sapling
Northern Pin Oak	2	Sapling	2	28	White Pine	Low	Variable	Sapling
Balsam Fir	2	Pole/Sapling	5	28	Black Cherry	Low	Variable	Sapling
Black Cherry	3	Sapling	2	28				

100 4133 - Aspen, Mixed Pine Poletimber Well 15.2 38 N/A Cut in 1983 as a part of "Block 264." Old logging roads present, but access is poor due to low area between here and main roads.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	3	Pole/Sapling	6		Red Maple	Low	10 - 20 feet	Sapling
Paper Birch	2	Pole	6		Balsam Fir	Medium	Variable	Sapling
Bigtooth Aspen	60	Pole/Sapling	6	38	White Pine	Medium	Variable	Sapling
White Pine	30	Log/Pole	10		Black Cherry	Low	10 - 20 feet	Sapling
Red Pine	5	Log/Pole	10		Witch Hazel	Low	5 - 10 feet	Tall Shrub



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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101 4130 - Aspen Sapling Well 22.5 18 Immature N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	5	Sapling	2	18	White Oak	Low	< 5 feet	Sapling
Bigtooth Aspen	90	Sapling	3	18	Northern Pin Oak	Low	Variable	Sapling
Black/Red (Hybrid) Oak	5	Sapling	2	18	White Pine	Low	5 - 10 feet	Sapling
					Red Pine	Trace	5 - 10 feet	Sapling
					Pin Cherry	Low	10 - 20 feet	Sapling
					Jack Pine	Low	10 - 20 feet	Sapling
					Witch Hazel	Low	5 - 10 feet	Tall Shrub

102 629 - Mixed non-forested wetland Nonstocked 14.9 No

103 6120 - Lowland Cedar Poletimber Medium 128.2 136 N/A Stand used to be dominated by pole sized ash but it is dead now.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	15	Pole/Log/Sap	7		Balsam Fir	Low	Variable	Sapling
Northern White Cedar	70	Pole/Log	9	136	Tag Alder	High	10 - 20 feet	Tall Shrub
White Pine	5	XLog	18					
Balsam Fir	10	Sapling/Pole	3					

106 4139 - Aspen, Mixed Deciduous Sapling Well 29.0 7 Immature N/A Cut Spring 2014, left 2 small pine islands and some scattered oak.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	48	Sapling	1	7	White Oak	Low	< 5 feet	Sapling
Red Maple	37	Sapling	1	7	Black/Red (Hybrid) Oak	Medium	< 5 feet	Sapling
Red Pine	4	Log	16		White Pine	Low	< 5 feet	Sapling
Black/Red (Hybrid) Oak	3	Log/Pole	12		Witch Hazel	Low	5 - 10 feet	Tall Shrub
White Oak	2	Log/Pole	12		Balsam Fir	Trace	Variable	Sapling
Black/Red (Hybrid) Oak	5	Sapling	1					
White Pine	1	Log/Pole	12					

107 6128 - Lowland Coniferous, Mixed Deciduous Poletimber Poor 36.3 105 N/A broad drainage area, very wet in spots, floodplain of Townline Creek

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	10	Pole	6		Tag Alder	Medium	Variable	Tall Shrub
Paper Birch	20	Pole	5					
Balsam Fir	10	Pole	5					
Black Spruce	10	Pole	6					
Northern White Cedar	40	Pole	5	105				
Black Ash	10	Pole	5					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																				
108	4310 - Pine, Oak Mix	Sapling Well	56.0	15	Immature	N/A	Cut in 2005. Natural regeneration.																																																				
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Jack Pine	44	Sapling	3	15																																																							
Pin Cherry	5	Sapling	1																																																								
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112	4126 - White, Black, N. Pin Oak	Sawtimber Poor	33.0	111	1-50	N/A	Cut spring 2014, left 1 large island of pine in the south portion of the stand.																																																				
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114	42110 - Planted Red Pine	Sawtimber Well	32.6	92	81-110	N/A	Originally planted in 1928 then thinned Fall 2015 by removing all jack pine, aspen, and red maple																																																				
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115	330 - Low-Density Trees	Nonstocked	14.2		Immature	No	Cut fall 2015, trenched in 2016, and planted in 2017. First year regeneration survey found high amount of natural competition. A mixed objective was acceptable so can not herbicide release. Stand will become mixed with primarily natural vegetation. Third year regeneration check found average 840 TPA of healthy red pine mixed with natural jack pine and oak. Most of the regeneration is not 3 ft. tall yet so the stand is technically not forested. Regeneration of oak, cherry, jack pine, and planted red pine will be to "forested size" soon.																																																				
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Black/Red (Hybrid) Oak	Medium	< 5 feet	Sapling																																																								
Pin Cherry	Low	5 - 10 feet	Sapling																																																								
Red Pine	Low	< 5 feet	Sapling																																																								



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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116 42260 - Natural Pine, Mixed Deciduous Sawtimber Well 57.3 64 111-140 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	15	Log/Pole	10		Black/Red (Hybrid) Oak	Medium	Variable	Sapling
Black/Red (Hybrid) Oak	20	Log/Pole	13		White Pine	Low	Variable	Sapling
White Pine	39	Log/Pole/XLog	12	64	Red Maple	Low	Variable	Sapling
Red Pine	15	Log/Pole	12		Pin Cherry	Low	Variable	Sapling
Jack Pine	10	Log/Pole	10	55				
White Oak	1	Log	14					

117 6113 - Lowland Maple Poletimber Well 11.7 59 1-50 N/A lowland with a small alder drainage running through the middle.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	79	Pole/Sap/Log	7	59	Tag Alder	High	Variable	Tall Shrub
Paper Birch	5	Pole	7		White Pine	Low	Variable	Sapling
Quaking Aspen	5	Log/Pole	12					
Northern White Cedar	1	Log/Pole	12					
White Pine	5	XLog/Log	18					
Balsam Fir	5	Pole/Sapling	7					

118 42220 - Natural Jack Pine Sapling Well 49.1 26 Immature N/A Cut in 1994 and red pine planted in 1995. Natural regeneration has dominated the red pine.

Canopy Species	% Cover	Size Class	DBH	Age
Red Pine	10	Sapling/Pole	3	25
Jack Pine	85	Sapling/Pole	3	26
Black/Red (Hybrid) Oak	5	Sapling/Pole	3	26

119 4199 - Other Mixed Upland Deciduous Sapling Well 14.0 15 Immature N/A Cut in 2005

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	10	Sapling	1		White Pine	Low	< 5 feet	Sapling
Quaking Aspen	39	Sapling	2	15	Black/Red (Hybrid) Oak	Low	Variable	Sapling
Pin Cherry	10	Sapling	1					
Black/Red (Hybrid) Oak	30	Sapling	2	15				
White Pine	1	Pole/Sapling	7					
Jack Pine	10	Sapling	2					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																							
121	42210 - Natural Red Pine	Sawtimber Well	6.4	115	81-110	N/A	Natural red pine stand with red maple understory just starting to get to pole size, but mostly still sapling. Stand that was thinned in 1994 and 2015. Snowmobile trail runs through the stand.																																																							
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122	42121 - Planted Jack Pine, Mixed Deciduous	Sapling Well	54.2	14	Immature	N/A	Planted to jack pine in spring 2007 after cutting in 2004.																																																							
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124	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	11.7	98	81-110	N/A																																																								
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125	629 - Mixed non-forested wetland	Nonstocked	6.0			No	Giant beaver dam on the west edge of this stand which created the open water.																																																							
126	4133 - Aspen, Mixed Pine	Poletimber Well	17.2	36		N/A																																																								
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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127 4191 - Mixed Upland Deciduous with Conifer Poletimber Well 36.8 60 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	33	Pole/Sap/Log	7	60
Quaking Aspen	29	Log/Pole	12	
White Pine	15	Log/Pole	10	
Jack Pine	5	Log/Pole	10	
White Oak	3	Log/Pole	10	98
Black/Red (Hybrid) Oak	12	Log/Pole	12	98
Tamarack	1	Log/Pole	10	
Balsam Fir	1	Pole/Log	8	
Black Spruce	1	Pole/Log	8	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Low	Variable	Sapling
White Pine	Low	Variable	Sapling
Tag Alder	Low	Variable	Tall Shrub
Balsam Fir	Low	Variable	Sapling

131 4130 - Aspen Sapling Well 26.2 17 Immature N/A

Canopy Species	% Cover	Size Class	DBH	Age
Bigtooth Aspen	75	Sapling/Pole	4	17
Pin Cherry	5	Sapling	3	
Quaking Aspen	5	Sapling/Pole	4	
Black/Red (Hybrid) Oak	5	Sapling	3	
Jack Pine	10	Sapling	3	

Sub-Canopy Species	Density	Avg. Height	Size
Black/Red (Hybrid) Oak	Medium	Variable	Sapling
White Oak	Low	5 - 10 feet	Sapling
Red Maple	Low	10 - 20 feet	Sapling
Jack Pine	Low	Variable	Sapling
Witch Hazel	Low	5 - 10 feet	Tall Shrub

132 629 - Mixed non-forested wetland Nonstocked 24.0 No

133 42220 - Natural Jack Pine Sapling Well 25.0 17 Immature N/A

Cut in 2004 and red pine planted 2006 but natural jack pine has dominated for the most part.

Canopy Species	% Cover	Size Class	DBH	Age
Red Pine	30	Sapling	1	15
Jack Pine	60	Sapling	2	17
Black/Red (Hybrid) Oak	10	Sapling	2	17

134 629 - Mixed non-forested wetland Nonstocked 21.8 Immature No

136 4199 - Other Mixed Upland Deciduous Poletimber Well 6.0 36 1-50 N/A

Natural jack pine and oak pole timber resulting from a 4" spec. cut in 1984. South end is heavier to aspen and north end is heavier to oak and jack pine.

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	32	Pole/Sapling	6	36
White Pine	3	Log/Pole	10	
Jack Pine	15	Pole/Sapling	5	36
Black/Red (Hybrid) Oak	43	Pole/Log/Sap	7	36
Red Maple	2	Pole/Sap/Log	7	
Bigtooth Aspen	5	Pole/Sapling	7	

Sub-Canopy Species	Density	Avg. Height	Size
Northern Pin Oak	Medium	Variable	Sapling
Pin Cherry	Low	Variable	Sapling
White Pine	Trace	Variable	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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137 4130 - Aspen Sapling Medium 22.6 17 Immature N/A Cut in 2004.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	5	Sapling	2	17	Black/Red (Hybrid) Oak	Low	5 - 10 feet	Sapling
Quaking Aspen	60	Sapling	3	17	Jack Pine	Low	5 - 10 feet	Sapling
Black/Red (Hybrid) Oak	15	Sapling	2	17				
Jack Pine	10	Sapling	2	17				
Pin Cherry	5	Sapling	2					
Bigtooth Aspen	5	Sapling	3					

138 42120 - Planted Jack Pine Sapling Well 28.2 25 Immature N/A Cut 1995 and planted to jack pine in 1996.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black/Red (Hybrid) Oak	10	Sapling/Pole	3	26	Black/Red (Hybrid) Oak	Low	Variable	Sapling
Jack Pine	80	Sapling/Pole	3	25	Red Pine	Low	Variable	Sapling
Red Pine	10	Sapling	2		Jack Pine	Low	Variable	Sapling

139 6129 - Mixed Coniferous Lowland Forest Sawtimber Well 21.7 101 81-110 N/A Red maple and white pine are in the east finger.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	15	Log/Pole	12		Balsam Fir	Low	Variable	Sapling
Balsam Fir	10	Pole/Sapling	5		Tag Alder	Medium	5 - 10 feet	Tall Shrub
Northern White Cedar	31	Log/Pole	10	101	Red Maple	Low	Variable	Sapling
White Pine	3	XLog/Log	18		Paper Birch	Trace	>20 feet	Sapling
Tamarack	20	Pole/Log	9					
Black Spruce	20	Pole/Log	8					
Quaking Aspen	1	Log	12					

140 42140 - Planted Mixed Pine Sapling Well 17.4 25 Immature N/A Cut 1995 and FTP says planted to jack pine in 1996. It is possible red pine was interplanted because there is slot of red pine in what look to be rows. There are many small bogs within.

Canopy Species	% Cover	Size Class	DBH	Age
Black/Red (Hybrid) Oak	5	Sapling/Pole	3	26
Red Pine	40	Sapling/Pole	4	
Jack Pine	50	Sapling/Pole	4	25
Quaking Aspen	5	Sapling	2	



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

141 6139 - Mixed Lowland Forest Poletimber Well 25.4 98 141-170 N/A

Two-track goes into south end of stand onto a 2-3 acre peninsula of high ground with xlog white and red pine. The rest of stand is a series of upland ridges and lowland swales.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	23	Log/Pole/Sap	10	98	Balsam Fir	Medium	Variable	Sapling
Paper Birch	5	Pole	6		White Pine	Medium	Variable	Sapling
Quaking Aspen	5	Pole/Log	8		Tag Alder	Low	10 - 20 feet	Tall Shrub
Balsam Fir	12	Pole/Sapling	7		Red Maple	Low	>20 feet	Sapling
Northern White Cedar	5	Log/Pole	10	98				
White Pine	23	Log/Pole/XLog	10	55				
Black/Red (Hybrid) Oak	10	Pole/Log	9					
Red Pine	1	XLog/Log/Pole	18					
Black Spruce	13	Pole/Log	8					
White Oak	3	Log	12					

142 629 - Mixed non-forested wetland Nonstocked 2.4 No

143 4133 - Aspen, Mixed Pine Poletimber Well 33.9 42 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	55	Pole/Sapling	7	42	Black/Red (Hybrid) Oak	Medium	Variable	Sapling
Red Pine	3	Log/Pole	12		White Oak	Low	Variable	Sapling
Jack Pine	12	Pole	7		White Pine	Low	Variable	Sapling
Black/Red (Hybrid) Oak	13	Pole/Sapling	6		Black Cherry	Low	Variable	Sapling
White Pine	5	Log/Pole	10		Witch Hazel	Low	5 - 10 feet	Tall Shrub
Black Cherry	5	Sapling/Pole	4					
Quaking Aspen	5	Pole/Sapling	5					
White Oak	2	Pole/Log	8					

144 4130 - Aspen Poletimber Well 11.6 26 Immature N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	70	Pole/Sapling	5	26	Witch Hazel	Medium	5 - 10 feet	Tall Shrub
Jack Pine	5	Sapling/Pole	4	26	Red Pine	Low	10 - 20 feet	Sapling
Black/Red (Hybrid) Oak	10	Sapling/Pole	4	26	White Pine	Low	Variable	Sapling
Red Maple	5	Sapling/Pole	4		White Oak	Low	>20 feet	Sapling
Quaking Aspen	10	Sapling/Pole	4		Black/Red (Hybrid) Oak	Low	Variable	Sapling

145 6225 - Bog Nonstocked 1.3 Immature No

Sub-Canopy Species	Density	Avg. Height	Size
Leatherleaf	Full	< 5 feet	Tall Shrub



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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146 42220 - Natural Jack Pine Poletimber Well 24.0 42 51-80 N/A 4" spec cut in 1978.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black/Red (Hybrid) Oak	4	Pole/Sapling	7		Black/Red (Hybrid) Oak	Low	Variable	Sapling
Red Pine	25	Log/Pole	13	91	Jack Pine	Low	Variable	Sapling
Jack Pine	70	Pole/Sap/Log	7	42	White Pine	Low	Variable	Sapling
White Pine	1	Log	14					

147 42290 - Natural Mixed Pine Sapling Well 21.1 17 Immature N/A Cut in 2004 and planted to red pine in 2006 but natural jack pine has dominated.

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	3	Sapling	3	17
Black/Red (Hybrid) Oak	5	Sapling	2	17
Red Pine	35	Sapling	2	15
Jack Pine	55	Sapling	3	17
Pin Cherry	2	Sapling	3	

148 4139 - Aspen, Mixed Deciduous Sapling Well 19.8 17 Immature N/A Cut 2005.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	12	Sapling	3	17	Black/Red (Hybrid) Oak	Low	Variable	Sapling
Quaking Aspen	48	Sapling	2	17	Red Pine	Low	5 - 10 feet	Sapling
Black/Red (Hybrid) Oak	15	Sapling	2	17	White Pine	Low	5 - 10 feet	Sapling
Jack Pine	10	Sapling	3	17	Balsam Fir	Trace	5 - 10 feet	Sapling
Pin Cherry	5	Sapling	2		Jack Pine	Low	Variable	Sapling
Bigtooth Aspen	7	Sapling/Pole	4					
Red Pine	3	Sapling	2					

149 42200 - Natural White Pine Sawtimber Well 19.1 59 81-110 N/A White pine sawtimber with oak, jack pine, and cherry coming in from cut in 1984.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	5	Log/Pole	10		Northern Pin Oak	Medium	Variable	Sapling
White Pine	64	Log/Pole	12	59	Jack Pine	Low	Variable	Sapling
Jack Pine	7	Pole/Sap/Log	6	36	Pin Cherry	Low	Variable	Sapling
Black Cherry	5	Pole/Sap/Log	6		White Pine	Low	Variable	Sapling
Black/Red (Hybrid) Oak	18	Pole/Log/Sap	7	36	Red Pine	Low	Variable	Sapling
White Oak	1	Log/Pole	10					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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150 4130 - Aspen Sapling Well 13.7 26 Immature N/A Cut in 1995

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	95	Sapling/Pole	4	26	Black/Red (Hybrid) Oak	Low	Variable	Sapling
Black/Red (Hybrid) Oak	3	Sapling	3	26	White Oak	Low	Variable	Sapling
Red Maple	2	Sapling	3		Witch Hazel	Medium	5 - 10 feet	Tall Shrub
					White Pine	Low	Variable	Sapling
					Jack Pine	Low	>20 feet	Sapling
					Red Pine	Low	Variable	Sapling
					Red Maple	Low	Variable	Sapling

151 4311 - Pine, Aspen Mix Sapling Well 20.8 17 Immature N/A Most of the aspen is in the southeast portion of the stand.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	33	Sapling	3	17	Black/Red (Hybrid) Oak	Medium	< 5 feet	Sapling
Jack Pine	43	Sapling	2	17				
Black/Red (Hybrid) Oak	22	Sapling	3	17				
Black Cherry	2	Sapling	2					

152 4133 - Aspen, Mixed Pine Poletimber Well 31.8 36 Unspecified N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	70	Pole/Sap/Log	7	36	Black/Red (Hybrid) Oak	Low	Variable	Sapling
Black/Red (Hybrid) Oak	5	Pole/Sap/Log	7	36	Jack Pine	Low	Variable	Sapling
White Pine	8	Log/Pole	12		White Pine	Low	Variable	Sapling
Red Pine	12	Log	12		Pin Cherry	Low	>20 feet	Sapling
Jack Pine	4	Pole/Sapling	6		Witch Hazel	High	10 - 20 feet	Tall Shrub
Red Maple	1	Log/Pole	12		White Oak	Low	10 - 20 feet	Sapling

153 42120 - Planted Jack Pine Sapling Well 9.7 15 Immature N/A Cut 2004 and planted to jack pine in 2006.

Canopy Species	% Cover	Size Class	DBH	Age
Black/Red (Hybrid) Oak	10	Sapling	3	17
Jack Pine	85	Sapling	3	15
Pin Cherry	5	Sapling	2	

155 4310 - Pine, Oak Mix Poletimber Medium 22.0 36 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	10	Pole/Sap/Log	6	36	Black/Red (Hybrid) Oak	Medium	Variable	Pole
Black/Red (Hybrid) Oak	28	Pole/Sap/Log	7	36	Jack Pine	Medium	Variable	Sapling
White Pine	15	Log/Pole	10		White Oak	Medium	Variable	Sapling
Red Pine	15	Log/Pole	10					
Jack Pine	27	Pole/Log/Sap	8	36				
Pin Cherry	5	Sapling/Pole	4					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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156 4130 - Aspen Sapling Well 8.2 17 Immature N/A Cut 2004.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	63	Sapling	3	17	Black/Red (Hybrid) Oak	Low	5 - 10 feet	Sapling
Pin Cherry	3	Sapling	1					
Black/Red (Hybrid) Oak	15	Sapling	3	17				
Red Maple	2	Sapling	2					
Quaking Aspen	15	Sapling	2					
Jack Pine	2	Sapling	2					

157 4130 - Aspen Sapling Well 24.1 26 Immature N/A Cut in 1995.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	80	Sapling	2	26	Northern Pin Oak	Low	Variable	Sapling
Pin Oak (Southern)	20	Sapling	2	26				

158 4130 - Aspen Poletimber Well 21.1 36 Unspecified N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	80	Pole/Sapling	7	36	Black/Red (Hybrid) Oak	Low	Variable	Sapling
Black/Red (Hybrid) Oak	5	Pole/Sapling	7	36	White Oak	Medium	Variable	Sapling
White Pine	10	Log/Pole	10		Pin Cherry	Low	Variable	Sapling
White Oak	2	Pole/Sapling	6		Red Pine	Low	Variable	Sapling
Red Pine	3	Pole/Log	9		White Pine	Low	Variable	Sapling
					Jack Pine	Low	Variable	Sapling
					Witch Hazel	Low	5 - 10 feet	Tall Shrub

159 4310 - Pine, Oak Mix Sapling Poor 21.6 5 Immature N/A Stand was final harvested in Summer 2016 and currently has pockets of advanced regeneration that was protected during harvest. There is a lot of young oak regeneration from the harvest but not much has made it to the 3 ft. mark yet.

Canopy Species	% Cover	Size Class	DBH	Age
Black/Red (Hybrid) Oak	45	Sapling	2	5
White Pine	5	Sapling/Pole	3	
Red Pine	5	Pole/Log/Sap	9	
Jack Pine	35	Sapling	2	
White Oak	10	Sapling	2	

160 42121 - Planted Jack Pine, Mixed Deciduous Poletimber Well 11.7 25 Immature N/A Jack pine was planted in 1996. Aspen is mostly in the east 1/4 of the stand.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	10	Sapling/Pole	3		Red Pine	Low	5 - 10 feet	Sapling
Black/Red (Hybrid) Oak	8	Pole/Sapling	5		Jack Pine	Low	5 - 10 feet	Sapling
Jack Pine	78	Pole/Sapling	5	25	Black/Red (Hybrid) Oak	Low	Variable	Sapling
Pin Cherry	4	Sapling	2					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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161 4130 - Aspen Sapling Well 34.7 17 Immature N/A Cut 2004

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	95	Sapling	3	17	Black/Red (Hybrid) Oak	Medium	5 - 10 feet	Sapling
Black/Red (Hybrid) Oak	5	Sapling	3		White Oak	Medium	5 - 10 feet	Sapling
					White Pine	Low	Variable	Sapling
					Witch Hazel	Low	5 - 10 feet	Tall Shrub
					Pin Cherry	Low	Variable	Sapling
					Jack Pine	Low	5 - 10 feet	Sapling
					Red Pine	Trace	Variable	Sapling

162 42110 - Planted Red Pine Sawtimber Well 13.1 92 111-140 N/A Thinned Summer 2016.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Oak	5	Log/Pole	12		Northern Pin Oak	Low	Variable	Sapling
White Pine	10	Log/Pole	12		White Pine	Medium	Variable	Sapling
Red Pine	75	Log/Pole	12	92	Red Pine	Low	Variable	Sapling
Black/Red (Hybrid) Oak	10	Log/Pole	11					

163 42110 - Planted Red Pine Sawtimber Well 13.4 92 81-110 N/A Thinned in Summer2016

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Oak	5	Log/Pole	12		Black/Red (Hybrid) Oak	Medium	Variable	Sapling
Black/Red (Hybrid) Oak	10	Log/Pole	12		White Pine	Medium	Variable	Sapling
White Pine	15	Pole/Log/XLog	9	55				
Red Pine	70	Log/Pole	12	92				

164 42290 - Natural Mixed Pine Poletimber Well 6.9 55 141-170 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Oak	10	Log/Pole	13		Black/Red (Hybrid) Oak	Low	Variable	Sapling
Quaking Aspen	3	Pole/Log	8		White Pine	Medium	>20 feet	Sapling
Black/Red (Hybrid) Oak	2	Pole/Log	9		White Oak	Low	10 - 20 feet	Sapling
White Pine	42	Pole/Log/XLog	9	55				
Red Pine	35	Log/Pole	12	92				
Jack Pine	5	Pole	8					
Bigtooth Aspen	3	Log	12					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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165 42260 - Natural Pine, Mixed Deciduous Sawtimber Well 29.8 80 111-140 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Oak	20	Log	14	92	White Oak	Low	Variable	Sapling
Quaking Aspen	5	Log	12		Black/Red (Hybrid) Oak	Low	Variable	Sapling
Black/Red (Hybrid) Oak	5	Pole/Log	9		White Pine	High	10 - 20 feet	Sapling
White Pine	30	Log/Pole	12	80				
Red Pine	25	Log/Pole	12	92				
Jack Pine	15	Pole/Log	9					

166 4130 - Aspen Sawtimber Well 21.6 55 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	70	Log/Pole	10	55	Witch Hazel	Low	5 - 10 feet	Tall Shrub
Red Maple	15	Log/Pole	10		Balsam Fir	Low	>20 feet	Pole
Black/Red (Hybrid) Oak	5	Log	14		White Pine	Low	Variable	Sapling
White Oak	3	Log	14		Balsam Fir	Low	Variable	Sapling
White Pine	5	Log/Pole	12		Red Maple	Low	Variable	Sapling
Red Pine	2	Log	14					

167 42141 - Planted Mixed Pine, Mixed Deciduous Sawtimber Well 46.6 92 111-140 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black/Red (Hybrid) Oak	15	Log	14	92	Black/Red (Hybrid) Oak	Medium	Variable	Sapling
Red Pine	35	Log/Pole	12	92	White Pine	Medium	Variable	Sapling
White Pine	35	Pole/Log	8	55				
White Oak	7	Log	15					
Jack Pine	5	Pole/Log	9					
Quaking Aspen	3	Log/Pole	10					

169 42110 - Planted Red Pine Sawtimber Well 2.2 92 111-140 N/A

This stand was left as retention when the stand to the north was cut.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	99	Log/Pole	12	92	Black/Red (Hybrid) Oak	Medium	Variable	Sapling
White Pine	1	Log/Pole	10		Jack Pine	Medium	Variable	Sapling
					Bigtooth Aspen	Low	Variable	Sapling
					White Pine	Low	Variable	Sapling
					White Oak	Low	Variable	Sapling
					Red Maple	Low	Variable	Sapling