



Compartment Review Presentation

Atlanta Forest Management Unit

Compartment 95

Entry Year 2016

Acreage: 1,426

County Alpena

Management Area: Alpena Lake Plain

Revision Date: 09/02/2014

Stand Examiner: Dale Parris

Legal Description:

T31N R05E, Sections 3, 10, and 15

Identified Planning Goals:

Management goals and activities within Compartment 95 were guided using the Alpena Lake Plains Management Area Plan. Prescriptions were tailored taking into account the unique characteristics of individual stands, possible effects on adjacent stands, the integrity of surrounding wetlands, the functioning of the greater landscape, and well being of the Thunderbay River watershed and its wildlife inhabitants.

Soil and topography:

The entire topography of Compartment 95 is flat. The soil in the northern 400 acres is composed of Deford muck with a thin strip of Au Gres-Deford Complex following the run-off through the center. The southern 1,000 acres is mostly Tacoda-Wakeley complex with a pocket of Deford muck to the northeast and Rollaway muck bordering the Thunderbay River to the south.

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

Compartment 95 is bordered by state land to the west, southeast, and north. Private land divides the compartment into a north 400 acres and a south 1,000 acres. The compartment and surrounding land are wooded. Hunting camps are present on the adjacent private property.

Unique Natural Features:

No Unique Natural Features known.

Archeological, Historical, and Cultural Features:

No Archeological, Historical, or Cultural Features known.

Special Management Designations or Considerations:

Due to the high water table much of the land is unharvestable. The ability to regenerate a stand, due to wetness is a concern throughout the compartment. Affects on the Thunderbay River to the south were considered in management decisions on adjacent land.

Watershed and Fisheries Considerations:

Fisheries was consulted in regards to harvesting stands bordering the Thunderbay River. The positive and negative effects of harvesting within 100 feet of the Thunderbay River on fish, wildlife, and all other species aquatic or terrestrial was considered in all related management decisions.

Wildlife Habitat Considerations:

The primary focus of wildlife habitat management will be to address the habitat requirements identified for the listed featured species found in this compartment. These species include American woodcock, beaver, black bear, pileated woodpecker, ruffed grouse, snowshoe hare, wild turkey, white-tailed deer. Based on the selected featured species, some of the most significant wildlife management issues in the management area are the maintenance of young forest and large open grassland complexes; the retention of large, over-mature trees and snags; and the maintenance and expansion of hard mast and mesic conifer components.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of peat and muck and minor coarse-textured glacial till. The glacial drift thickness varies between 50 and 200 feet. Beneath the glacial drift are the Devonian Antrim Shale and Traverse Group. The Traverse is quarried for stone and both are quarried for cement products. Gravel pits are located to the south and potential is considered good on southern upland areas. This area has not had development for the Antrim Shale because the Antrim subcrops in this area and production is not likely. There are no State oil and gas leases in the area.

Vehicle Access:

Vehicle access is available along the northern edge of the compartment along Long Rapids Road. Access is available to the southern portion of the compartment via the Alpena to Hillman Snowmobile Trail that runs along the north side of the Thunder Bay River. Access is limited from Long Rapids Road south into the compartment due to a high water table and wet soils. Access is limited from the Alpena to Hillman Snowmobile Trail to the north into the compartment for the same reason. Wet ground in combination with private ownership make the central portion of the compartment only accessible through private property.

Survey Needs:

None.

Recreational Facilities and Opportunities:

The Alpena to Hillman Snowmobile Trail utilizes the former D & M railroad grade. Hunting opportunities are available throughout and are only limited by the compartment's limited accessibility.

Fire Protection:

Fire protection to Compartment 95 is provided through the Atlanta and Alpena DNR Offices. The cover types throughout this compartment make these grounds a low fire risk for intense wildland fire.

Additional Compartment Information:

Harvests in the central region of Compartment 95 will depend on the cooperation and permission of private landowners.

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**

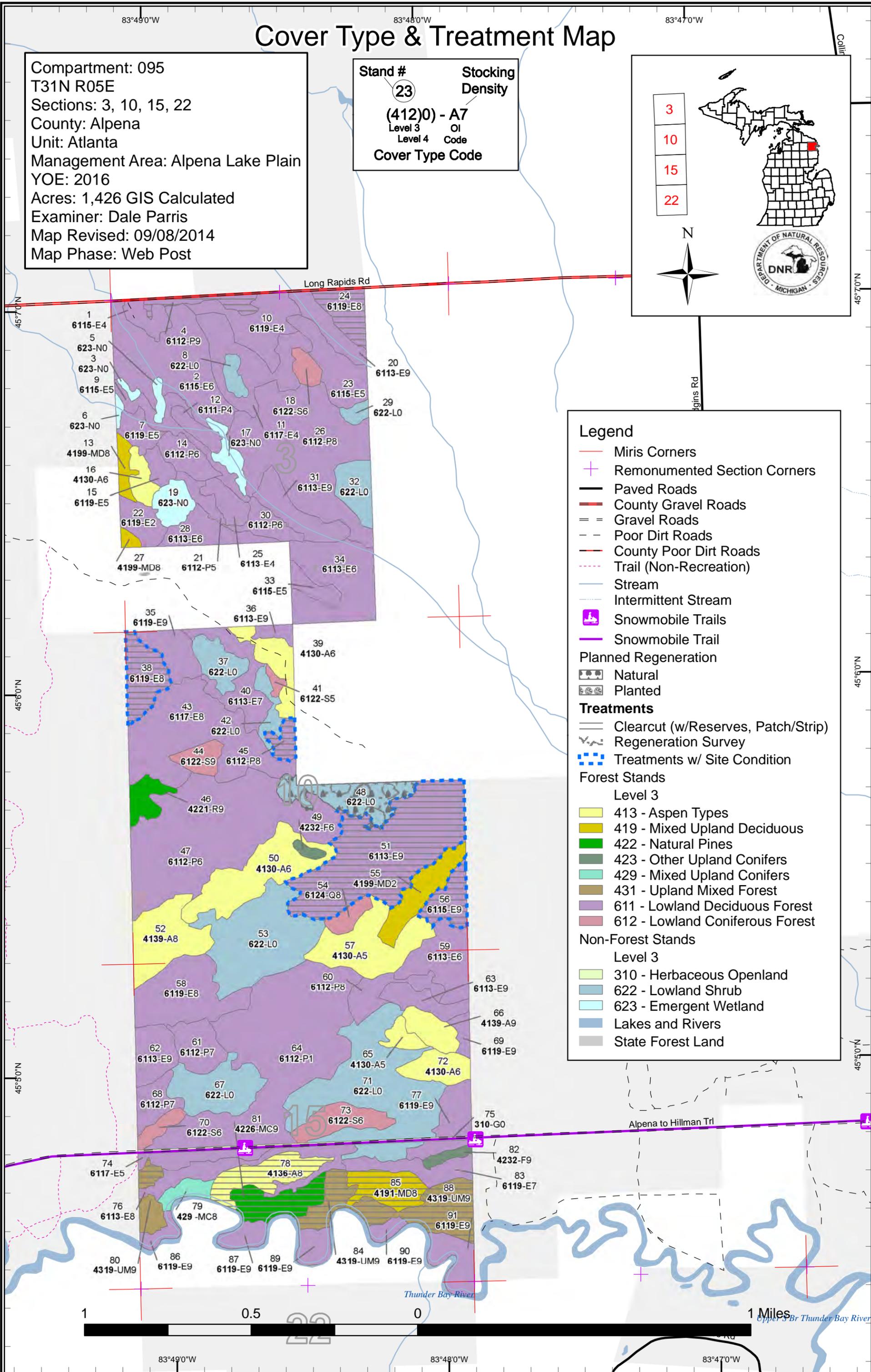
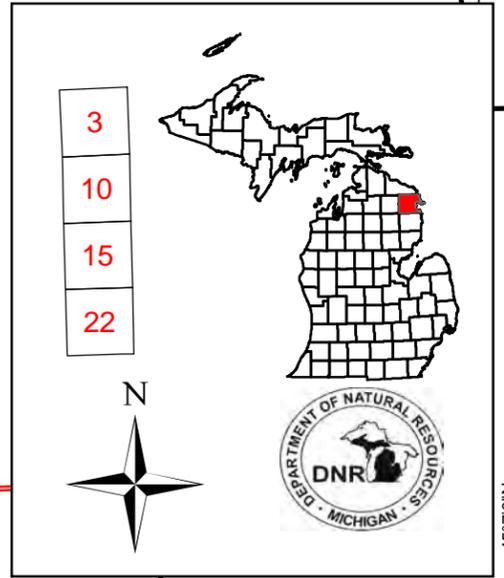
The following information is displayed, where pertinent, on the attached compartment maps:

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

Cover Type & Treatment Map

Compartment: 095
 T31N R05E
 Sections: 3, 10, 15, 22
 County: Alpena
 Unit: Atlanta
 Management Area: Alpena Lake Plain
 YOE: 2016
 Acres: 1,426 GIS Calculated
 Examiner: Dale Parris
 Map Revised: 09/08/2014
 Map Phase: Web Post

Stand #
 23
Stocking Density
 (412)0 - A7
 Level 3 OI
 Level 4 Code
Cover Type Code



Legend

- Miris Corners
- Remonumented Section Corners
- Paved Roads
- County Gravel Roads
- Gravel Roads
- Poor Dirt Roads
- County Poor Dirt Roads
- Trail (Non-Recreation)
- Stream
- Intermittent Stream
- Snowmobile Trails
- Snowmobile Trail

Planned Regeneration

- Natural
- Planted

Treatments

- Clearcut (w/Reserves, Patch/Strip)
- Regeneration Survey
- Treatments w/ Site Condition

Forest Stands

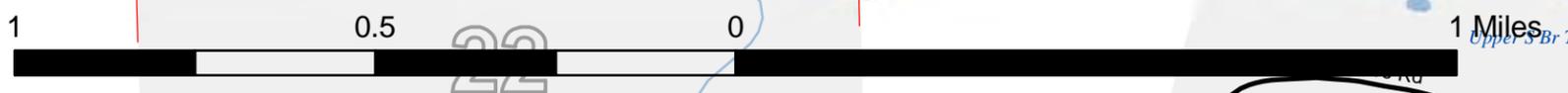
Level 3

- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers
- 431 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest

Non-Forest Stands

Level 3

- 310 - Herbaceous Openland
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- Lakes and Rivers
- State Forest Land



83°49'0"W 83°48'0"W 83°47'0"W

Stand Boundary Map

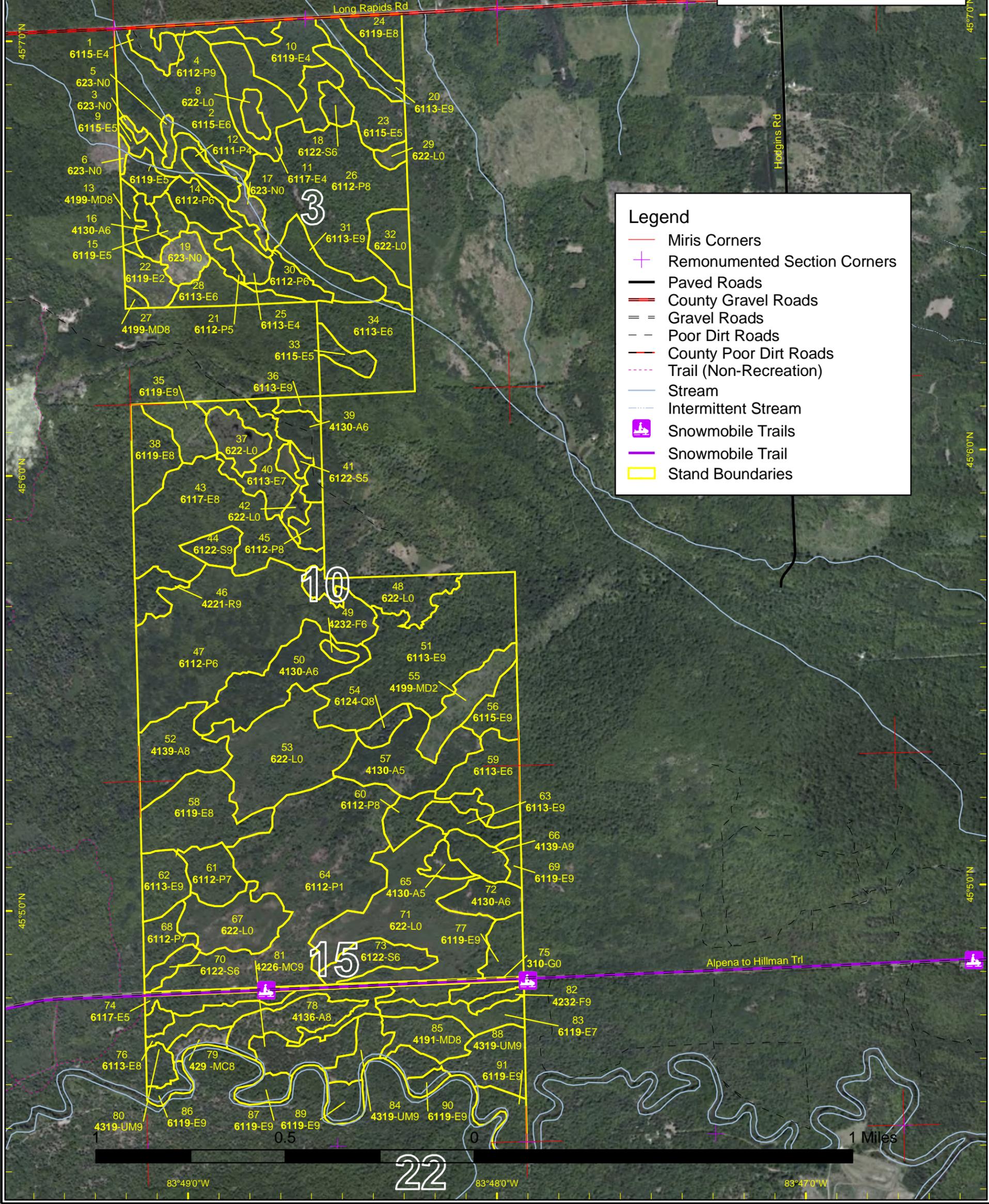
Compartment: 095
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Stand # **23**
 Stacking Density
(412)0 - A7
 Level 3 OI
 Level 4 Code
 Cover Type Code

3
 10
 15
 22

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DEPARTMENT OF NATURAL RESOURCES
DNR
MICHIGAN



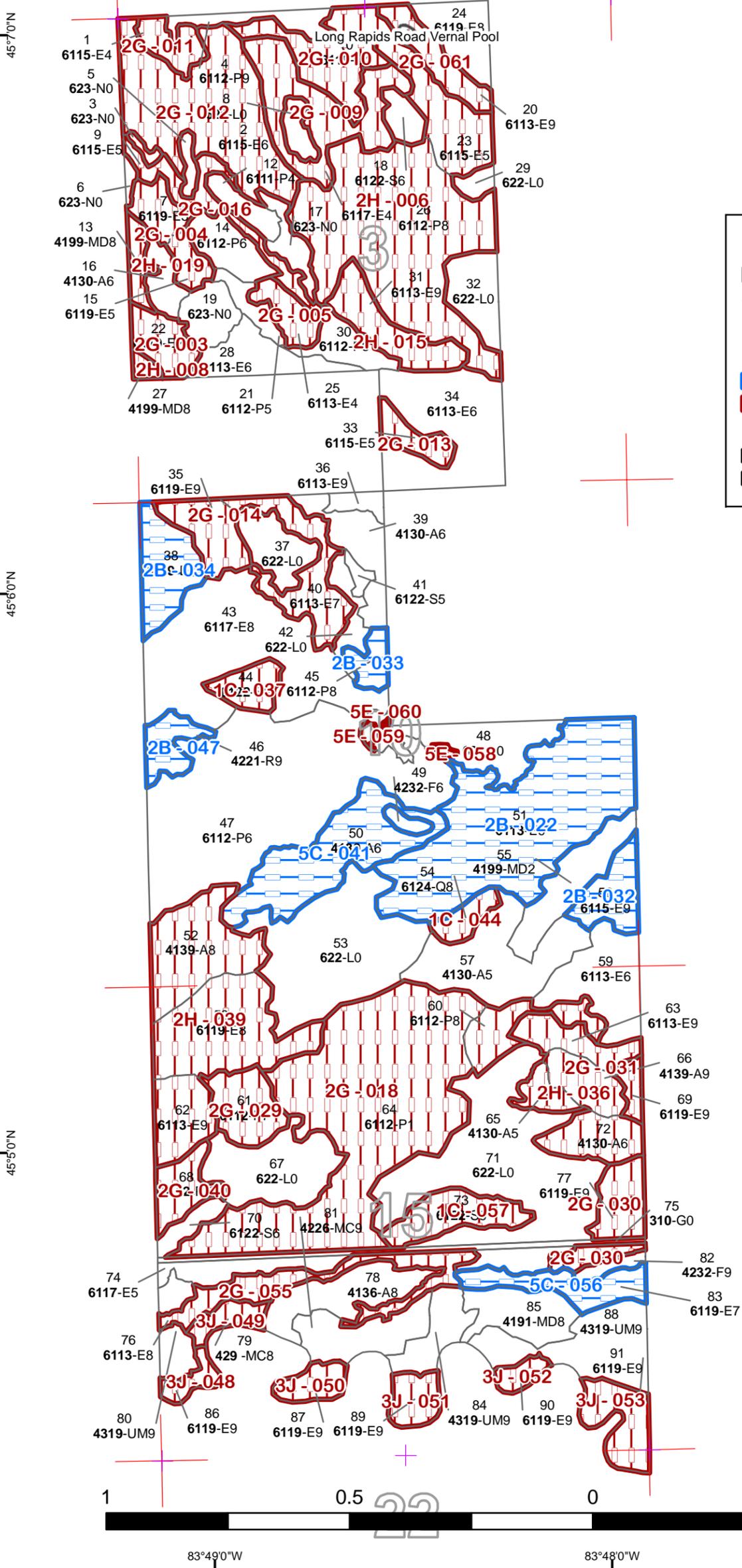
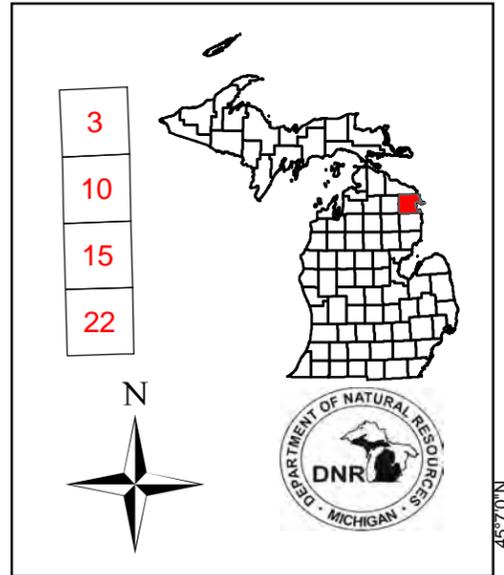
Legend

- Miris Corners
- + Remonumented Section Corners
- Paved Roads
- County Gravel Roads
- - Gravel Roads
- - Poor Dirt Roads
- - County Poor Dirt Roads
- - - Trail (Non-Recreation)
- Stream
- - - Intermittent Stream
- + Snowmobile Trails
- Snowmobile Trail
- Stand Boundaries

Special Conservation Areas & Site Conditions Map

Compartment: 095
 T31N R05E
 Sections: 3, 10, 15, 22
 County: Alpena
 Unit: Atlanta
 Management Area: Alpena Lake Plain
 YOE: 2016
 Acres: 1,426 GIS Calculated
 Examiner: Dale Parris
 Map Revised: 09/08/2014
 Map Phase: Web Post

Stand #
 23
Stocking Density
 (412)0 - A7
 Level 3 OI
 Level 4 Code
Cover Type Code



Legend

- Stand Boundaries
- Miris Corners
- Remonumented Section Corners
- Site Condition Available
 - Available w/ Constraints (Factor - Number)
 - Unavailable (Factor - Number)
- Reviewable SCAs
 - Proposed SCA
 - SCA Removal

Report 1 – Total Acres by Cover Type and Age Class



	Age Class														Total
	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 +	Uneven Age	
Aspen	0	0	0	18	43	31	9	0	41	0	0	0	0	0	143
Herbaceous Openland	7	0	0	0	0	0	0	0	0	0	0	0	0	0	7
Lowland Aspen/Balsam Poplar	0	0	0	100	133	16	0	84	5	0	0	0	0	0	338
Lowland Conifers	0	0	0	0	0	0	0	0	0	5	0	0	0	0	5
Lowland Deciduous	0	0	0	0	58	116	3	77	208	53	18	0	0	56	589
Lowland Shrub	189	0	0	0	0	0	0	0	0	0	0	0	0	0	189
Lowland Spruce/Fir	0	0	0	0	0	5	13	13	0	0	0	0	0	0	30
Marsh	19	0	0	0	0	0	0	0	0	0	0	0	0	0	19
Mixed Upland Deciduous	0	15	0	0	0	0	0	14	6	0	0	0	0	0	35
Natural Mixed Pines	0	0	0	0	0	0	0	14	0	0	0	0	0	0	14
Red Pine	0	0	0	0	0	0	0	0	7	0	0	0	0	0	7
Upland Conifers	0	0	0	0	0	0	5	0	0	0	0	0	0	0	5
Upland Mixed Forest	0	0	0	0	0	0	8	0	22	9	0	0	0	0	39
Upland Spruce/Fir	0	0	0	0	0	2	0	3	0	0	0	0	0	0	5
Total	215	15	0	119	234	170	38	204	289	68	18	0	0	56	1426



Report 2 – Proposed Treatment Summaries

Atlanta Mgt. Unit
Year of Entry 2016

Compartment 095
Total Compartment Acres: 1,426

Acres by Treatment Type

Commercial Harvest - 205 Tree Planting - 0 Other - 0
 Habitat Cut - 0 Opening Maintenance - 0

Cover Type by Harvest Method

		Clearcut	Selection	Seed Tree	Shelterwood	Thinning	Other - Specify	Total Acres
Aspen Types	17	0	0	0	0	0	0	17
Lowland Deciduous Forest	122	0	0	0	0	0	0	122
Mixed Upland Deciduous	14	0	0	0	0	0	0	14
Natural Pines	14	0	0	0	0	0	0	14
Other Upland Conifers	3	0	0	0	0	0	0	3
Upland Mixed Forest	34	0	0	0	0	0	0	34
Total	205	0	0	0	0	0	0	205



S t a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
4	54095004-Cut	6.9	6112 - Lowland Aspen	High Density Log	57	51-80	Harvest	Clearcut with Reserves	413 - Aspen	Cmpt. Review Proposal
<u>Prescription</u> Clearcut this stand leaving 3-10% retention at the east end of the stand where a pocket of sapling aspen exists. Cut during frozen winter or dry										
<u>Specs:</u> summer conditions.										
<u>Other</u> Lower ground/wet areas should also be considered for retention.										
<u>Comments:</u>										
<u>Next</u> Acceptable regeneration is a mix of quaking aspen, bigtooth aspen, and blasam poplar at medium to high stocking levels. Regeneration survey										
<u>Steps:</u> to be done in 3-5 years, due a high water table.										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2015										
24	54095024-Cut	11.3	6119 - Mixed Lowland Deciduous Forest	Medium Density Log	76	51-80	Harvest	Clearcut with Reserves	6119 - Mixed Lowland Deciduous Forest	Cmpt. Review Proposal
<u>Prescription</u> Clearcut with reserves. Leave 3-10 percent retention in pockets located to help with the taking up of water. Focus retention around lower										
<u>Specs:</u> spots/areas thick with tag alder where regeneration would be difficult. Harvest in frozen winter or dry summer. Protect spruce regen during harvest.										
<u>Other</u>										
<u>Comments:</u>										
<u>Next</u> Acceptable regeneration is a medium to well stocked stand of red maple, quaking aspen, and black cherry. Ash regeneration is undesirable (due										
<u>Steps:</u> to EAB), but inevitable.										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2015										
78	54095078-Cut	17.0	4136 - Aspen, Mixed Conifer	Medium Density Log	86	111-140	Harvest	Clearcut with Reserves	4136 - Aspen, Mixed Conifer	Cmpt. Review Proposal
<u>Prescription</u> Clearcut with reserves. Clearcut, leaving 3-10% retention in pockets. Focus retention pockets around mature red pine and white pine. Leave 1-										
<u>Specs:</u> 3 mature red and white pine per acre (where present) focusing on retaining the largest and healthiest pine. Protect non-merchantable white pine and white spruce.										
<u>Other</u> With the overstory of this stand already being relatively open and the dispersment of the white pine, red pine, and white spruce; the										
<u>Comments:</u> regeneration of aspen will not be hindered much by the suggested retention. Make sure the Alpena to Hillman Snowmobile Trail is protected as much as possible through the timber sale specs.										
<u>Next</u> Acceptable regeneration is a medium stocking of bigtooth aspen, red maple, paper birch, balsam fir, quaking aspen, and limited new amounts of										
<u>Steps:</u> white pine and white spruce.										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2015										
80	54095080- Cut_exp-0	2.8	4319 - Mixed Upland Forest	High Density Log	68	51-80	Harvest	Clearcut with Reserves	4191 - Mixed Upland Deciduous with Conifer	Fld. Tr. Bdy.
<u>Prescription</u> Final harvest. Maintain the 100' buffer for the Thunder Bay River as retention. Avoid damage to pine, oak, and spruce regeneration in the										
<u>Specs:</u> understory. See OFS for stand 60.										
<u>Other</u> Access through gated snowmobile trail extending off of McConnaughey Rd . Summer cut only. Harvesting early to cut with a stand in C94.										
<u>Comments:</u>										
<u>Next</u> Expected regeneration includes a medium/medium-high stocking of: aspen, paper birch, red maple, white pine, black spruce, and balsam fir.										
<u>Steps:</u> Regeneration survey in 3-5 years.										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2012										

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Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
81 54095081-Cut	14.4	42260 - Natural Pine, Mixed Deciduous	High Density Log	71	111-140	Harvest	Clearcut with Reserves	4319 - Mixed Upland Forest	Cmpt. Review Proposal

Prescription Clearcut leaving 3-10% retention in pockets. Do not harvest/operate within 100 ft of the Thunder Bay River. Treat this 100 ft river buffer as retention. Leave 1-3 large red and/or white pine per acre. Protect white spruce advanced regeneration.

Other Comments: This stand will covert to mixed upland forest. Make sure the Alpena to Hillman Snowmobile Trail is protected as much as possible through the timber sale specs.

Next Steps: Acceptable regeneration includes red pine, white pine, bigtooth aspen, red maple, paper birch, and white spruce.

Proposed Start Date: 10/01/2015

82 54095082-Cut	2.8	42320 - Upland Spruce	High Density Log	76	81-110	Harvest	Clearcut with Reserves	4191 - Mixed Upland Deciduous with Conifer	Cmpt. Review Proposal
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Prescription Retain 3-10 percent canopy white spruce along the outer boundaries of the stand to seed in. Protect white spruce advanced regeneration.

Other Comments: Access to this stand will come through the northeast corner of the stand where it is nearest to the railroad grade. If this access is too wet, access will have to come through stand 83 to the southwest. Make sure the Alpena to Hillman Snowmobile Trail is protected as much as possible through the timber sale specs.

Next Steps: Acceptable regeneration is a medium stocking of white spruce, quaking aspen, balsam fir and low amounts of red maple.

Proposed Start Date: 10/01/2015

84 54095084-Cut	9.5	4319 - Mixed Upland Forest	High Density Log	90	81-110	Harvest	Clearcut with Reserves	4319 - Mixed Upland Forest	Cmpt. Review Proposal
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Prescription Clearcut leaving 1 to 3 of the largest red pine and white pine per acre. Leave 3-10% retention in pockets. Do not harvest within 100 feet of the Thunderbay River where a majority of the large white pine are present. Use the river edge as retention. Protect white pine, white spruce, and red oak advanced regeneration.

Other Comments: Do not operate within 100 ft of the Thunder Bay River. Retention greater than 10 percent may be desirable due to the adjacent Thunder Bay River and for protecting white pine, white spruce, and red oak advanced regeneration. Make sure the Alpena to Hillman Snowmobile Trail is protected as much as possible through the timber sale specs.

Next Steps: Acceptable regeneration is a medium to well stocking of bigtooth aspen, red maple, paper birch, white pine, and white spruce.

Proposed Start Date: 10/01/2015

85 54095085-Cut	13.8	4191 - Mixed Upland Deciduous with Conifer	Medium Density Log	76	51-80	Harvest	Clearcut with Reserves	4191 - Mixed Upland Deciduous with Conifer	Cmpt. Review Proposal
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Prescription Clearcut leaving 3-10% retention in pockets. Locate retention pockets around aspen saplings while bringing in all components of the original stand. Also focus retention pockets in low/more wet areas.

Other Comments: Stand 82 would likely need to be included in a sale with this stand. Access to stand 82 through this stand will be necessary if access from the railroad grade is cut-off by wet areas. Make sure the Alpena to Hillman Snowmobile Trail is protected as much as possible through the timber sale specs.

Next Steps: Acceptable regeneration is a medium stocking of quaking aspen, red maple, balsam fir, and white spruce.

Proposed Start Date: 10/01/2015

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Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
88 54095088-Cut	22.2	4319 - Mixed Upland Forest	High Density Log	84	81-110	Harvest	Clearcut with Reserves	4319 - Mixed Upland Forest	Cmpt. Review Proposal

Prescription Clearcut, leaving 3-10% retention in pockets. Locate retention around northern white cedar in the south western portion of the stand. Do not operate within 100 ft of the Thunderbay River. Retain 1-3 large white pine per acre where they are present. Protect red oak and white spruce advanced regeneration.

Other Comments: Do not operate within 100 ft. of the Thunderbay River. It is desirable to retain more than 10 percent of this stand due to the proximity to the river and the presence of white cedar. Make sure the Alpena to Hillman Snowmobile Trail is protected as much as possible through the timber sale specs.

Next Steps: Acceptable regeneration is a medium to well stocking of red maple, quaking aspen, white spruce, white pine, and balsam fir.

Proposed Start Date: 10/01/2015

54095_OutOfY OE- Cut_Survey	18.4					Regeneration Survey	Intermediate Survey (natural regen)	6112 - Lowland Aspen	Fld. Tr. Bdy.
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Prescription
Specs:

Other
Comments:

Next Steps: Perform an intermediate regeneration check in 5 years on 10/1/2019. Acceptable regeneration is a medium to well stocked stand of aspen, red maple, balsam poplar, and spruce/fir.

Proposed Start Date: 10/01/2019

**Total Treatment
Acreage Proposed: 119.1**



S t a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
38	54095038-Cut	14.9	6119 - Mixed Lowland Deciduous Forest	Medium Density Log	71	51-80	Harvest	Clearcut with Reserves	6119 - Mixed Lowland Deciduous Forest	Cmpt. Review Proposal
<u>Prescription Specs:</u> Clearcut with reserves. Clearcut leaving 3-10% retention in pockets located in low areas and areas where pole timber is predominant and could use more growth.										
<u>Other Comment:</u> Access will need to be granted by the land owner to the north. Quaking aspen regen will be hindered due to the old age of the aspen present.										
<u>Next Steps:</u> Acceptable regeneration is a medium to well stocked stand consisting of red maple, quaking aspen, and paper birch.										
<u>Proposed Start Date:</u> 10/01/2015										
<u>Limiting Factor</u> 2B: Unknown if access through adjacent landowner(s) is possible										
45	54095045-Cut	4.8	6112 - Lowland Aspen	Medium Density Log	86		Harvest	Clearcut with Reserves	6112 - Lowland Aspen	Cmpt. Review Proposal
<u>Prescription Specs:</u> Clearcut with reserves. Leave 3-10% retention focused in areas that are the lowest/most wet. Harvest in frozen winter or dry summer.										
<u>Other Comment:</u> This stand is wet and will need a longer window (3-4 years) to harvest.										
<u>Next Steps:</u> Acceptable regeneration is a medium to well stocked stand of quaking aspen, balsam poplar, red maple, and black spruce. Ash regeneration will also be present. Due to high moisture levels, follow up with a natural regeneration survey in 1 year post harvest.										
<u>Proposed Start Date:</u> 10/01/2015										
<u>Limiting Factor</u> 2B: Unknown if access through adjacent landowner(s) is possible										
51	54095051-Cut	73.9	6113 - Lowland Maple	High Density Log	85	111- 140	Harvest	Clearcut with Reserves	6113 - Lowland Maple	Cmpt. Review Proposal
<u>Prescription Specs:</u> Final Harvest. Clearcut leaving 3-10% retention in pockets. Locate retention pockets in lower/more wet areas that have minimal amounts of ash in the canopy. Do not cut any <i>Ulmus americana</i> .										
<u>Other Comment:</u> Harvest of this stand will depend on whether the private land owner to the north is willing to grant access.										
<u>Next Steps:</u> Acceptable regeneration is a medium to well stocked stand of red maple and ash. Due to the high moisture levels in this stand a natural regeneration survey should be done 1 year post harvest.										
<u>Proposed Start Date:</u> 10/01/2015										
<u>Limiting Factor</u> 2B: Unknown if access through adjacent landowner(s) is possible										
56	54095056-Cut	10.4	6115 - Lowland Ash	High Density Log	79	81-110	Harvest	Clearcut with Reserves	6113 - Lowland Maple	Cmpt. Review Proposal
<u>Prescription Specs:</u> Clearcut with reserves. Clearcut leaving 3-10% retention in pockets. Locate retention pockets in lower/more wet areas that have minimal amounts of ash in the canopy.										
<u>Other Comment:</u> Harvest of this stand will depend on whether the private land owner to the north is willing to grant access.										
<u>Next Steps:</u> Acceptable regeneration is a medium to well stocked stand of red maple and ash. Due to the high moisture levels in this stand a natural regeneration survey should be done 1 year post harvest.										
<u>Proposed Start Date:</u> 10/01/2015										
<u>Limiting Factor</u> 2B: Unknown if access through adjacent landowner(s) is possible										
Total Treatment Acreage Proposed: 104.2										

Report 5 – Site Conditions

Atlanta Mgt. Unit
Dale Parris : Examiner

Compartment 095
Year of Entry 2016

Availability for Management

Total Acres	Acres		Dominant Site Conditions	Dominant Site Conditions						
	Available	Not Available		No	5C	3J	2H	2G	2B	1C
143	94	48	Aspen	63	31		48			
338	132	206	Lowland Aspen/Balsam Poplar	127			73	133	5	
5		5	Lowland Conifers							5
589	256	333	Lowland Deciduous	145	12	31	84	218	99	
30	11	19	Lowland Spruce/Fir	11						19
35	29	6	Mixed Upland Deciduous	29			6			
14	14		Natural Mixed Pines	14						
7	7		Red Pine						7	
5		5	Upland Conifers			5				
39	39		Upland Mixed Forest	39						
5	5		Upland Spruce/Fir	5						
1,210	588	623	Total Forested Acres	433	43	36	211	351	111	24
	49%	51%	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
003	Not Available	2G: Too wet (sensitive soils, does not include access issues)	9	5D: Unproductive Forest Land			
Comments:							
004	Not Available	2G: Too wet (sensitive soils, does not include access issues)	11	5D: Unproductive Forest Land			
Comments:							

Report 5 – Site Conditions

Atlanta Mgt. Unit
Dale Parris : Examiner

Compartment 095
Year of Entry 2016

005	Not Available	2G: Too wet (sensitive soils, does not include access issues)	7			
Comments:						
006	Not Available	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	90	2G: Too wet (sensitive soils, does not include access issues)	5A: Not able to obtain desirable regeneration	2E: Road needed
Comments:						
Regeneration and access is a concern for a harvest in this stand due to wet soils. Timber would likely have to be forwarded to a landing at Long Rapids Rd. Special equipment tracks would need to be used on harvesting equipment.						
008	Not Available	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	2			
Comments:						
009	Not Available	2G: Too wet (sensitive soils, does not include access issues)	26	5D: Unproductive Forest Land		
Comments:						
010	Not Available	2G: Too wet (sensitive soils, does not include access issues)	20			
Comments:						

Report 5 – Site Conditions

Atlanta Mgt. Unit
Dale Parris : Examiner

Compartment 095
Year of Entry 2016

011	Not Available	2G: Too wet (sensitive soils, does not include access issues)	7	5D: Unproductive Forest Land	
Comments:					
012	Not Available	2G: Too wet (sensitive soils, does not include access issues)	48		
Comments:					
013	Not Available	2G: Too wet (sensitive soils, does not include access issues)	6		
Comments:					
014	Not Available	2G: Too wet (sensitive soils, does not include access issues)	29		
Comments:					
015	Not Available	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	14	3K: Rare or unique landforms	2B: Unknown if access through adjacent landowner(s) is possible
Comments:					
016	Not Available	2G: Too wet (sensitive soils, does not include access issues)	12		
Comments:					

Report 5 – Site Conditions

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018	Not Available	2G: Too wet (sensitive soils, does not include access issues)	112
Comments:			
019	Not Available	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	5
Comments:			
022	Available	2B: Unknown if access through adjacent landowner(s) is possible	74
Comments:			
029	Not Available	2G: Too wet (sensitive soils, does not include access issues)	12
Comments:			
030	Not Available	2G: Too wet (sensitive soils, does not include access issues)	14
Comments:			
031	Not Available	2G: Too wet (sensitive soils, does not include access issues)	3
Comments:			

Report 5 – Site Conditions

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032	Available	2B: Unknown if access through adjacent landowner(s) is possible	10	
Comments:				
033	Available	2B: Unknown if access through adjacent landowner(s) is possible	5	
Comments:				
034	Available	2B: Unknown if access through adjacent landowner(s) is possible	15	
Comments:				
036	Not Available	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	34	
Comments:				
037	Not Available	1C: Other dept or div proc/practices	7	
Comments: This is being retained due to the lack of conifer covertype in this area.				
039	Not Available	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	67	
Comments:				

Report 5 – Site Conditions

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040	Not Available	2G: Too wet (sensitive soils, does not include access issues)	9
Comments:			
041	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	31
Comments:			
044	Not Available	1C: Other dept or div proc/practices	5
Comments: This is being retained due to the lack of conifer cover in this area.			
047	Available	2B: Unknown if access through adjacent landowner(s) is possible	7
Comments:			
048	Not Available	3J: Water quality / BMPs (stream, river, or lake)	4
Comments:			
049	Not Available	3J: Water quality / BMPs (stream, river, or lake)	5
Comments:			

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050	Not Available	3J: Water quality / BMPs (stream, river, or lake)	6	
Comments:				
051	Not Available	3J: Water quality / BMPs (stream, river, or lake)	7	
Comments:				
052	Not Available	3J: Water quality / BMPs (stream, river, or lake)	3	
Comments:				
053	Not Available	3J: Water quality / BMPs (stream, river, or lake)	12	
Comments:				
055	Not Available	2G: Too wet (sensitive soils, does not include access issues)	18	
Comments:				
056	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	12	
Comments:				

Report 5 – Site Conditions

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057 Not Available 1C: Other dept or div 13
 proc/practices

Comments:

This is being retained due to the lack of conifer cover in this area.

058 Not Available 5E: Long Term Retention 1

Comments:

This is retention for stand 48 in compartment 95. Retention for Sale No. 54-008-013-02

059 Not Available 5E: Long Term Retention 1

Comments:

This is retention from stand 48 in compartment 95. Retention for Sale No. 54-008-013-02

060 Not Available 5E: Long Term Retention 0

Comments:

This is retention for stand 48 in compartment 95.

061 Not Available 2G: Too wet (sensitive 10
 soils, does not include
 access issues)

Comments:



Report 6 – 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
Long Rapids Road Vernal Pool	Spring-Seeps, Riparian Areas	Vernal Pool	SCA	0.5
Comments There is a vernal pool here that a perennial stream/somewhat seasonal run-off goes through.				



Report 7 – 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
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	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	6115 - Lowland Ash	Low Density Pole	6.6	55		
2	6115 - Lowland Ash	High Density Pole	47.7	82	51-80	This stand is on the borderline of being a log stand on the west side and in the south eastern most portion. The age of the stand varies throughout due to disturbance (mostly windthrow and flooding related death). The green ash where there is standing water tends to have a higher concentration of dead and dying trees due to emerald ash borer (and flooding). The occasional elm is present in the canopy and under story. There are occasional pockets where the stand is dominated by aspen.
4	6112 - Lowland Aspen	High Density Log	6.9	57	51-80	Pockets of younger pole sized aspen are mixed in with the more mature aspen. Age of stand likely varies due to disturbance.
7	6119 - Mixed Lowland Deciduous Forest	Medium Density Pole	6.8	45	1-50	This stand seems to have stunted growth due to seasonally high water table.
9	6115 - Lowland Ash	Medium Density Pole	11.7	47	1-50	
10	6119 - Mixed Lowland Deciduous Forest	Low Density Pole	20.2	57	1-50	Most ash have signs of EAB damage and are dying. Pockets of aspen are spaced out throughout stand.
11	6117 - Lowland Deciduous, Mixed Coniferous	Low Density Pole	25.6	57	1-50	There are two patches of black spruce and tamarack to the southwest of the stand. These two patches have high porcupine damage.
12	6111 - Lowland Balsam Poplar	Low Density Pole	5.4	45		This stand has a large amount of windrow through out. The adjacent stands did not experience windthrow.
13	4199 - Other Mixed Upland Deciduous	Medium Density Log	4.5	86	81-110	The density of the stand is variable due to age and past windthrow disturbance. The aspen are old and of poor quality. They will most likely will be dead /on the ground by next year of entry. Larger red maple exist to the north end of the stand (14-20 in dbh).
14	6112 - Lowland Aspen	High Density Pole	9.6	45	81-110	This is a relatively wet aspen stand. Black ash core ring count before adding was 36.
15	6119 - Mixed Lowland Deciduous Forest	Medium Density Pole	4.5	52	51-80	Cattails are frequent throughout the stand.
16	4130 - Aspen	High Density Pole	5.9	35	51-80	This is a well stocked aspen stand that is growing well.
18	6122 - Black Spruce	High Density Pole	4.7	66	111-140	This is an isolated black spruce stand of good quality.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
20	6113 - Lowland Maple	High Density Log	9.8	96	111-140	This stand has a stream running through the center of it. Most ash have been effected by EAB and are on their way to dying. Traces of large silver maple are present. The understory varies from dense to almost non-existent. Overall, the understory is very sparse. The stream runs through a vernal pool/flooded area at north end of the stand.
21	6112 - Lowland Aspen	Medium Density Pole	4.6	45		This aspen stand was separated out from the stand to the north due to the much poorer drainage and more open canopy in this stand.
22	6119 - Mixed Lowland Deciduous Forest	Medium Density	8.8	52		This stand is very suppressed due to standing water through much of the year.
23	6115 - Lowland Ash	Medium Density Pole	17.0	76	1-50	
24	6119 - Mixed Lowland Deciduous Forest	Medium Density Log	11.3	76	51-80	Most ash are showing EAB damage and are on their way to dying.
25	6113 - Lowland Maple	Low Density Pole	6.9	45	1-50	
26	6112 - Lowland Aspen	Medium Density Log	72.9	76		
27	4199 - Other Mixed Upland Deciduous	Medium Density Log	1.6	80	51-80	The age in the stand is highly variable due to disturbance (windthrow).
28	6113 - Lowland Maple	High Density Pole	12.4	47	51-80	The west 3.3 acres of the stand consists mainly of red maple and black ash that is older than the rest of the stand by about 20 years.
30	6112 - Lowland Aspen	High Density Pole	8.1	38	81-110	The BA on the west is in the 100-120 range. The BA on the east is in the 80-90 range.
31	6113 - Lowland Maple	High Density Log	14.2	85	141-170	A creek or intermittent creek runs the full length of the southern portion of the stand.
33	6115 - Lowland Ash	Medium Density Pole	5.7	53	1-50	This stand is too wet to harvest. Much of the stand has pockets that hold water all year. Due to the extreme wetness and difference in BA, this stand was separated from the surrounding stand 31.
34	6113 - Lowland Maple	High Density Pole	33.1	53	81-110	Red maple occur mostly in stump sprout clumps. The aspen is mostly concentrated in the northern portion of the stand. 50 percent plus of the green and black ash are dead or dying. Their is a small pocket of northern white cedar and spruce to the east side of the stand.
35	6119 - Mixed Lowland Deciduous Forest	High Density Log	11.3	88	81-110	Most of the green ash is dead or is dying.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
36	6113 - Lowland Maple	High Density Log	3.1	53	51-80	Red maple occur mostly in stump sprout clumps.
38	6119 - Mixed Lowland Deciduous Forest	Medium Density Log	14.9	71	51-80	This stand has large quaking aspen that is likely to be on the ground in the next ten years. Numerous large quaking aspen litter the ground.
39	4130 - Aspen	High Density Pole	12.3	36	81-110	This is a well stocked, overall healthy aspen stand.
40	6113 - Lowland Maple	Low Density Log	17.2	83	1-50	This stand is too wet to operate in. The stand BA/density increases in the northwest.
41	6122 - Black Spruce	Medium Density Pole	1.7	68	1-50	This small black spruce stand is a transition area between aspen upland and lowland brush.
43	6117 - Lowland Deciduous, Mixed Coniferous	Medium Density Log	56.0	Uneven Age	51-80	The second age of the stand comes from a consistent suppressed canopy layer of red maple through out the stand. These red maple had an average dbh of 4 inches and an age of 28 years. These red maple fall in the 20-30 ft. range.
44	6122 - Black Spruce	High Density Log	6.7	68	111-140	This is a very healthy black spruce stand. This is a small unique stand relative to its surroundings.
45	6112 - Lowland Aspen	Medium Density Log	4.8	86		The quaking aspen in this are old and likely to be on the ground within the next ten years. The green ash are dead or will be soon due to emerald ash borer.
46	42210 - Natural Red Pine	High Density Log	7.3	81	200+	A 14 in. dbh red pine cored at 76 rings plus 8 for an age of 84 years. 13.3 in. dbh RP ringed at 70 plus 8 for 78.
47	6112 - Lowland Aspen	High Density Pole	92.3	39	1-50	This stand has scattered areas that would be consider sapling dominated, especially to the north. Two 6 in. aspen cored at approx. 37 rings. (Add 2 for 39 years.) Sparse, Scattered large green ash are present throughout the stand.
49	42320 - Upland Spruce	High Density Pole	1.9	51	81-110	Cored a 7 in. dbh black spruce at 36 rings and aided 15 to get 51. This stand is an island in an aspen stand. This stand is unique to this area and it is suggested that it go unharvested for wildlife thermal cover.
50	4130 - Aspen	High Density Pole	31.1	50	51-80	This could be called a lowland stand. Scattered low spots exist. The west most portion of this stand is lowland aspen over tag alder.
51	6113 - Lowland Maple	High Density Log	73.9	85	111-140	Trace healthy elm saplings in sparse amounts throughout the understory. Red maple dominates the NE half of the stand. Ash is dominate in the outside portion of the central region of the stand. Ash presence in the canopy and the understory increases as you move to the SW of the stand.
52	4139 - Aspen, Mixed Deciduous	Medium Density Log	24.1	89	1-50	A 17 in. dbh aspen cored at 87 rings plus 2 gives 89 years. Clumps of various size aspen are present throughout.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
54	6124 - Lowland Spruce-Fir	Medium Density Log	4.9	90	81-110	A cored 16 in. dbh black spruce cored at 80 plus 10 for 90 years. This stand is unique to its area.
55	4199 - Other Mixed Upland Deciduous	Medium Density	15.4	10		This long narrow sapling stand is the result of a straight line wind that blew over the overstory. Scattered pole sized black ash and a couple log sized red maple and green ash are still standing.
56	6115 - Lowland Ash	High Density Log	10.4	79	81-110	A 12 in. dbh green ash cored at 69 plus 10 to get 79 years. The ash are dead or dying due to EAB.
57	4130 - Aspen	Medium Density Pole	27.8	47	51-80	This stand has somewhat hilly terrain that is unique to the area.
58	6119 - Mixed Lowland Deciduous Forest	Medium Density Log	31.1	80	81-110	An 11.8 in. dbh green ash cored at 70 plus. A 10.5 in. green ash cored at 69 plus. (Add 10 for 80.) The basal area to the north is approx. 100-120 and to the south it is 40-80. The green ash is dead or dying due to EAB.
59	6113 - Lowland Maple	High Density Pole	20.2	46	51-80	A 9 in. dbh red maple cored at 51 plus. An 8 in. dbh red maple cored at 36 plus. (ave. 44 plus 2 for 46 years of age)
60	6112 - Lowland Aspen	Medium Density Log	11.2	79	1-50	
61	6112 - Lowland Aspen	Low Density Log	12.3	48	51-80	A 12 in. dbh red maple cored at 46 plus 2 for an age of 48.
62	6113 - Lowland Maple	High Density Log	12.1	93	81-110	A 14.5 in. dbh red maple cored at 91 plus 2 for an age of 93 years.
63	6113 - Lowland Maple	High Density Log	9.2	79	81-110	A 17 in. dbh red maple cored at 77 plus 2 for 79 years. Large red maple dominate along the southern portion of the stand where there is a seasonal run-off.
64	6112 - Lowland Aspen	Low Density Sapling	100.8	45		This stand is a borderline lowland shrub - tag alder/willow nonforested stand. The size, density, and species composition of the canopy varies throughout the stand, therefore the age of the canopy trees were estimated relative to the ages of similar trees in adjacent stands.
65	4130 - Aspen	Medium Density Pole	4.7	45	51-80	A pocket of log sized aspen exists at the north end of the stand.
66	4139 - Aspen, Mixed Deciduous	High Density Log	9.0	68	81-110	A 12 in. dbh quaking aspen cored at 66 plus 2 for 68 years. The aspen vary in size from 16 in. dbh log to 6 in. dbh pole timber.
68	6112 - Lowland Aspen	Low Density Log	8.9	58	1-50	A 10.5 in. dbh tree cored at 56 plus 2 for 58 years.
69	6119 - Mixed Lowland Deciduous Forest	High Density Log	3.4	68		



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
70	6122 - Black Spruce	High Density Pole	4.5	51	81-110	An 8 in. dbh tree cored at 45 plus. A 7 in. dbh tree cored at 37 plus. Add 10 and average for an age of 51 years.
72	4130 - Aspen	High Density Pole	10.7	42	51-80	
73	6122 - Black Spruce	High Density Pole	12.7	78	81-110	A 9 in. dbh black spruce cored at 68 plus 10 for 78 years.
74	6117 - Lowland Deciduous, Mixed Coniferous	Medium Density Pole	8.7	59	1-50	A 9 in. dbh quaking aspen cored at 57 plus 2 for 59 years. An area near the center of the stand is too wet to harvest.
76	6113 - Lowland Maple	Medium Density Log	17.8	103	51-80	This stand is a low lying drainage running inbetween two slightly higher ground stands.
77	6119 - Mixed Lowland Deciduous Forest	High Density Log	13.7	73	51-80	
78	4136 - Aspen, Mixed Conifer	Medium Density Log	17.0	86	111-140	This is an overmature aspen stand that will be on the ground in the next 10 years if not harvested. This stand has a mostly open understory.
79	429 - Mixed Upland Conifers	Medium Density Log	5.1	68	111-140	This stand borders the Thunderbay River.
80	4319 - Mixed Upland Forest	High Density Log	7.6	68	51-80	This stand is part of a clearcut treatment in comparment 96 that is already in progress.
81	42260 - Natural Pine, Mixed Deciduous	High Density Log	14.4	71	111-140	A 13 in. dbh red pine cored at 54 plus 6 for an age of 60. A 14 in. dbh red pine cored at 69 plus 6 for an age of 75. A 13.8 in. dbh red pine cored at 71 plus 6 for an age of 77. Agerage 71 years. All three red pine where soft in the middle.
82	42320 - Upland Spruce	High Density Log	2.8	76	81-110	This is a rare white spruce dominated island in this area.
83	6119 - Mixed Lowland Deciduous Forest	Low Density Log	12.0	80	1-50	The subcanopy is a consistant layer of red maple with an average dbh of 3-4 in. and an age of 33 years (varified by coring 2, 4 in. dbh red maple that both counted 31 rings).
84	4319 - Mixed Upland Forest	High Density Log	9.5	90	81-110	This stand has large white pine along the Thunderbay River.
85	4191 - Mixed Upland Deciduous with Conifer	Medium Density Log	13.8	76	51-80	
86	6119 - Mixed Lowland Deciduous Forest	High Density Log	3.9	94	111-140	A 14.5 in dbh basswood cored at 91 plus 3 for an age of 94.
87	6119 - Mixed Lowland Deciduous Forest	High Density Log	5.7	94	111-140	

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Report 8 – Forested Stands

Compartment: 095
Year of Entry: 2016

	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
88	4319 - Mixed Upland Forest	High Density Log	22.2	84	81-110	This stand is very mixed. The aspen need to be harvested before they fall and go to waste.
89	6119 - Mixed Lowland Deciduous Forest	High Density Log	6.6	94	111-140	
90	6119 - Mixed Lowland Deciduous Forest	High Density Log	3.3	94	111-140	The green ash are dead or dying.
91	6119 - Mixed Lowland Deciduous Forest	High Density Log	11.8	94	81-110	The green ash in this stand are dead or dying due to EAB.



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
3	6230 - Cattail	1.1	No	Unspecified	
5	6230 - Cattail	2.3	No	Unspecified	
6	6230 - Cattail	1.1	No	Unspecified	
8	6220 - Alder/willow	4.0	No	Unspecified	
17	623 - Emergent Wetland	5.9	No	Unspecified	
19	6230 - Cattail	8.2	No	Unspecified	
29	622 - Lowland Shrub	2.7	No	Unspecified	
32	6220 - Alder/willow	10.8	No	Unspecified	
37	6220 - Alder/willow	10.6	No	Unspecified	
42	6220 - Alder/willow	5.8	No	Unspecified	
48	6229 - Mixed lowland shrub	20.1	Natural Regen	Lowland Deciduous	
53	6220 - Alder/willow	46.8	No	Unspecified	There is a dying/dead green ash canopy overtop of thick tag alder in the northern peninsula of stand. Scattered red maple (etc.) are in a sparse canopy over top of tag alder along the eastern edge of the stand.
67	6220 - Alder/willow	22.5	No	Unspecified	
71	6220 - Alder/willow	65.9	No	Low	
75	3102 - Grass	7.0	No	Unspecified	