



Compartment Review Presentation

Escanaba Forest Management Unit

Compartment 33105

Entry Year 2021

Acreage: 1,640

County Delta

Management Area: Brampton Lake Plain

Revision Date: 2019-06-20

Stand Examiner: Dan Racine

Legal Description:

T41N-R22W, SECTIONS 10, 11, 13 and 14. Small portions along the north line of SECTIONS 23 and 24.
T41N-R21W, SECTION 18

Identified Planning Goals:

The hardwood stands that are generally good quality will continue to be managed on an uneven aged basis via the selection harvest method, a component of all species within the stand will be left for species diversity. Red pine plantations and natural pine stands will be thinned. The mature aspen stands and mixed upland deciduous types will be treated using the clear-cut method and shelterwood harvests. Stands that were treated last year of entry will allow the established white pine to continue to regenerate and become a larger component of the stand with a long term management objective of White pine.

Soil and topography:

Topography is nearly level to moderately steep. Soils include excessively drained sands, organic soils, and sand ridges. Major soil series include Rubican, Grayling, Eastport, Roscommon, Carbondale, Lupton, Rifle, Kalkaska, Au Gres, Wheatley, Brevort, Deford, Ensley, Angelica, Nahma, Cathro, and Tacoosh.

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

This compartment is located at the north end of a 3 mile X 7 mile block of state forest land north of the city of Gladstone and west of the village of Rapid River. The compartment is bordered by privately-owned forestland on all other sides.

Unique Natural Features:

N/A

Archeological, Historical, and Cultural Features:

N/A

Special Management Designations or Considerations:

Fisheries Division maintains a walleye rearing pond located in section 13. Two pipeline corridors cross this compartment.

Watershed and Fisheries Considerations:

NLMMU – Northern Lake Michigan Management Unit (Escanaba: John Bauman). Northern regions of this compartment contain and border Laraby Creek which serves as tributary to Inman Creek (Rapid River watershed). Laraby Creek is designated a Type 1 trout stream less than 50' width. A 300' buffer is recommended for Laraby Creek in riparian areas susceptible to aspen regeneration (specifically stands 12, 17, 32, 36, 39, 44, 71, 80, 94, 101, and 104). For areas not susceptible to aspen regeneration, 100' plus 5' per 1% increase in slope; buffers are recommended to protect these areas in accordance with Best Management Practices.

Southern regions of this compartment contain and border the Tacoosh River which serves as a tributary to Little Bay de Noc (Lake Michigan). The Tacoosh River is designated a Type 1 trout stream less than 50' width. A 300' buffer is recommended for the Tacoosh River in riparian areas susceptible to aspen regeneration (specifically stands 20, 46, 67, 68, 75, 78, 81, 83, 89, 91, 95, 96, and 115). For areas not susceptible to aspen regeneration, 100' plus 5' per 1% increase in slope; buffers are recommended to protect these areas in accordance with Best Management Practices.

Wildlife Habitat Considerations:

Large Compartment is comprised of mainly high ground and is bisected by a gas line corridor, electric transmission line corridor, snowmobile trail, and the Tacoosh River. Aspen forest and pine plantations predominate in the uplands, and mixed coniferous forest dominates wetter areas. Multiple stands will be treated this decade including pine plantation

thinning, hardwood final harvests and thinning, and aspen final cuts. Treatments will contribute toward a forest mosaic that is diverse and largely early successional.

Mineral Resource and Development Concerns and/or Restrictions

Numerous active sand/gravel pits exist in the area, but gravel potential appears to be limited within the compartment. There is some limestone/dolostone potential in the area. There is no known history of mineral leasing within or around the compartment. There has been some sparse iron ore exploration. Test wells indicate that potential metallic mineral bearing formations are in the range of 600 feet deep here. This is likely too deep for economic development of iron ore. Large-scale magnetic survey data indicate significant anomalies in the area, but the depth of any targets would be great and the quality of any potential metallic mineral deposits is unknown. There is no known potential for economic hydrocarbon production in the UP.

Vehicle Access:

A county road runs through the central part of the compartment with many forest roads spurring off of this.

Survey Needs:

Corners will be needed for the proposed treatments.

Recreational Facilities and Opportunities:

A maintained snowmobile and ATV trail runs north and south through the center and east part of the compartment. Hunting, fishing, trapping and camping opportunities can be enjoyed in this area.

Fire Protection:

This area is predominately red pine with few ladder fuels present. However, this area dries out rather quickly and could be an area of high risk. Access is excellent and there is a very good water supply nearby.

Additional Compartment Information:

Additional information is available on the Department website.

The following reports from the Inventory are attached:

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

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

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

Report 1 – Total Acres by Cover Type and Age Class



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	21	69	34	383	0	0	0	25	0	0	0	0	0	0	0	0	0	532
Cedar	0	0	0	0	0	0	0	0	0	0	0	109	0	0	0	0	0	0	109
Hemlock	0	0	0	0	0	0	0	0	0	0	17	6	0	0	0	0	0	0	23
Herbaceous Openland	87	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	87
Low-Density Trees	26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26
Lowland Conifers	0	0	0	0	0	24	0	29	0	0	76	0	0	0	0	0	0	0	129
Lowland Deciduous	0	0	0	0	0	0	0	10	40	0	0	0	0	0	0	0	0	0	50
Lowland Mixed Forest	0	14	0	0	0	0	0	0	0	0	13	0	0	0	0	0	0	0	27
Lowland Shrub	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	40	0	0	0	0	0	0	0	0	0	40
Marsh	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	28
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	118	22	0	0	0	0	0	0	0	0	140
Natural Mixed Pines	0	0	0	0	0	0	0	0	0	0	16	0	0	0	0	0	0	0	16
Northern Hardwood	0	0	0	0	0	0	0	0	79	33	0	0	0	0	0	0	0	0	112
Red Pine	0	0	0	0	0	0	28	160	0	13	0	0	0	0	0	0	0	0	201
Treed Bog	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Upland Conifers	0	0	0	6	15	0	5	0	17	0	0	0	0	0	0	0	0	0	43
Upland Mixed Forest	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0	0	0	7
Upland Shrub	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Upland Spruce/Fir	0	0	0	0	5	0	0	13	0	0	0	0	0	0	0	0	0	0	17
Water	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
White Pine	0	0	0	0	0	0	0	0	0	21	0	0	0	0	0	0	0	0	21
Total	176	35	69	40	403	24	40	212	319	89	122	115	0	0	0	0	0	0	1641



Report 2 – Treatment Summary

Escanaba Mgt. Unit

Year of Entry: 2021

Acres of Harvest

Compartment 105

Total Compartment Acres: 1,640

Commercial Harvest - 210
 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	15	0	0	0	0	0	0	0	0	15
Mixed Upland Deciduous	34	0	0	0	0	0	0	0	0	34
Northern Hardwood	19	6	0	0	0	0	0	0	0	26
Red Pine	0	0	0	0	0	128	0	0	0	128
Upland Spruce/Fir	8	0	0	0	0	0	0	0	0	8
Total	75	6	0	0	0	128	0	0	0	210

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	210	0	0	0	0	0	15	0	83	307
Next Step	0	41	41	0	0	41	163	0	0	285
Total	210	41	41	0	0	41	178	0	83	592



Stand Name	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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Approved Treatments:

5	33105005-Cut	6.4	4110 - Sugar Maple Association	Sawtimber Well	80	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Selection: Retain approximately 70 BA throughout the stand. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Any mix of the overstory species. <u>Regen:</u> <u>Other</u> Follow the complete marker. There is a ridge that runs north/south through the stand. <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2020</p>											
6	33105006-NF	3.6	3105 - Mixed Upland Herbaceous	Nonstocked			NonForestMgt	Other - Specify	3102 - Grass		No
<p><u>Prescription</u> Prescribed fire, farming (dozing, disking, raking, herbiciding, seeding (native or naturalized species only), fertilizing and liming, brushhog/saw <u>Specs:</u> removal of competing trees and establishment of native hard and soft mast producers such as red oak, crabapple or others. Also sharecropping could be considered for this opening. <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 /2020</p>											
7	33105007-NF	8.5	3105 - Mixed Upland Herbaceous	Nonstocked			NonForestMgt	Other - Specify	3102 - Grass		No
<p><u>Prescription</u> Prescribed fire, farming (dozing, disking, raking, herbiciding, seeding (native or naturalized species only), fertilizing and liming, brushhog/saw <u>Specs:</u> removal of competing trees and establishment of native hard and soft mast producers such as red oak, crabapple or others. Also sharecropping could be considered for this opening. <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 /2020</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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8	33105008-Cut	8.3	4139 - Aspen, Mixed Deciduous	Sawtimber Well	76	81-110	Harvest	Clearcut	4319 - Mixed Upland Forest	Even-Aged	No
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Prescription Clearcut: Cut all merchantable trees except leave some or all of the pine.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Any mix of the overstory species.

Regen:

Other This harvest will regenerate a mix of the overstory with a diverse stand of conifer and mixed upland deciduous.

Comment:

Site Condition

Proposed Start Date: 10/1 /2020

10	33105010-NF	2.1	31022 - Warm Season Grass	Nonstocked		Unspec ified	NonForestMgt	Other - Specify	3102 - Grass		No
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Prescription Prescribed fire, farming (dozing, disking, raking, herbiciding, seeding (native or naturalized species only), fertilizing and liming, brushhog/saw
Specs: removal of competing trees and establishment of native hard and soft mast producers such as red oak, crabapple or others. Also sharecropping could be considered for this opening.

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2020

11	33105011-NF	2.4	3105 - Mixed Upland Herbaceous	Nonstocked			NonForestMgt	Other - Specify	3102 - Grass		No
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Prescription Prescribed fire, farming (dozing, disking, raking, herbiciding, seeding (native or naturalized species only), fertilizing and liming, brushhog/saw
Specs: removal of competing trees and establishment of native hard and soft mast producers such as red oak, crabapple or others. Also sharecropping could be considered for this opening.

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2020

15	33105015-NF	1.7	3105 - Mixed Upland Herbaceous	Nonstocked			NonForestMgt	Other - Specify	3102 - Grass		No
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Prescription Prescribed fire, farming (dozing, disking, raking, herbiciding, seeding (native or naturalized species only), fertilizing and liming, brushhog/saw
Specs: removal of competing trees and establishment of native hard and soft mast producers such as red oak, crabapple or others. Also sharecropping could be considered for this opening.

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2020



Stand Name	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
16	33105016-Monitor	14.6	4113 - R.Maple, Conifer	Sawtimber Medium	80	51-80	Monitoring	Natural Regen (Re-Inventory)	4319 - Mixed Upland Forest	Even-Aged	No
<p><u>Prescription</u> Monitor the regeneration. Stand cut in 2015, allow to regenerate and see what regeneration is next treatment period.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Any mix of the overstory species.</p> <p><u>Regen:</u></p> <p><u>Other</u> Potential for treatment if regeneration is not successful.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>											
22	33105022-Cut	7.5	42340 - Upland Spruce/Fir	Poetimber Medium	60		Harvest	Clearcut	4319 - Mixed Upland Forest	Even-Aged	No
<p><u>Prescription</u> Clearcut: Cut all merchantable trees.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Any mix of the overstory species.</p> <p><u>Regen:</u></p> <p><u>Other</u> This harvest will allow for the addition of red maple regeneration along with mixed upland conifers.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>											
27	33105027-NF	6.9	3105 - Mixed Upland Herbaceous	Nonstocked			NonForestMgt	Other - Specify	3102 - Grass		No
<p><u>Prescription</u> Prescribed fire, farming (dozing, disking, raking, herbiciding, seeding (native or naturalized species only), fertilizing and liming, brushhog/saw</p> <p><u>Specs:</u> removal of competing trees and establishment of native hard and soft mast producers such as red oak, crabapple or others. Also sharecropping could be considered for this opening.</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 /2020</p>											
29	33105029-NF	8.1	31021 - Cool Season Grass	Nonstocked			NonForestMgt	Other - Specify	3102 - Grass		No
<p><u>Prescription</u> Prescribed fire, farming (dozing, disking, raking, herbiciding, seeding (native or naturalized species only), fertilizing and liming, brushhog/saw</p> <p><u>Specs:</u> removal of competing trees and establishment of native hard and soft mast producers such as red oak, crabapple or others. Also sharecropping could be considered for this opening.</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 /2020</p>											



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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
40	33105040-NF	1.0	3105 - Mixed Upland Herbaceous	Nonstocked			NonForestMgt	Other - Specify	3102 - Grass		No
<p><u>Prescription</u> Prescribed fire, farming (dozing, disking, raking, herbiciding, seeding (native or naturalized species only), fertilizing and liming, brushhog/saw Specs: removal of competing trees and establishment of native hard and soft mast producers such as red oak, crabapple or others. Also sharecropping could be considered for this opening.</p> <p><u>Next Step</u> Treatments:</p> <p><u>Acceptable</u> Regen:</p> <p><u>Other</u> Comment:</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>											
45	33105045-NF	1.1	31022 - Warm Season Grass	Nonstocked			NonForestMgt	Other - Specify	3102 - Grass		No
<p><u>Prescription</u> Prescribed fire, farming (dozing, disking, raking, herbiciding, seeding (native or naturalized species only), fertilizing and liming, brushhog/saw Specs: removal of competing trees and establishment of native hard and soft mast producers such as red oak, crabapple or others. Also sharecropping could be considered for this opening.</p> <p><u>Next Step</u> Treatments:</p> <p><u>Acceptable</u> Regen:</p> <p><u>Other</u> Comment:</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>											
55	33105055-NF	4.4	3105 - Mixed Upland Herbaceous	Nonstocked			NonForestMgt	Other - Specify	3102 - Grass		No
<p><u>Prescription</u> Prescribed fire, farming (dozing, disking, raking, herbiciding, seeding (native or naturalized species only), fertilizing and liming, brushhog/saw Specs: removal of competing trees and establishment of native hard and soft mast producers such as red oak, crabapple or others. Also sharecropping could be considered for this opening.</p> <p><u>Next Step</u> Treatments:</p> <p><u>Acceptable</u> Regen:</p> <p><u>Other</u> Comment:</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>											
60	33105060-Cut	12.3	4199 - Other Mixed Upland Deciduous	Poletimber Well	76	51-80	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	No
<p><u>Prescription</u> Clearcut with retention: Cut all trees except a few pine throughout the stand. Thin the pine plantation area that is within stand boundary to Specs: the south. Retention will retain around the low areas.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) Treatments:</p> <p><u>Acceptable</u> Any mix of the overstory species. Regen:</p> <p><u>Other</u> Comment: The retention for the 3J water/BMP is created to stay away from any steep slopes and low areas with water.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</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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63	33105063-Cut	6.7	4130 - Aspen	Sawtimber Well	73	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
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Prescription Clearcut with retention: Cut all trees 3 inches and larger dbh except leave a few pine trees.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Any mix of the overstory species.

Regen:

Other Buffer around the vernal pond in the south portion of the stand.

Comment:

Site Condition

Proposed Start Date: 10/1 /2020

66	33105066-NF	3.2	31021 - Cool Season Grass	Nonstocked			NonForestMgt	Other - Specify	3102 - Grass		No
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Prescription Prescribed fire, farming (dozing, disking, raking, herbiciding, seeding (native or naturalized species only), fertilizing and liming, brushhog/saw

Specs: removal of competing trees and establishment of native hard and soft mast producers such as red oak, crabapple or others. Also sharecropping could be considered for this opening.

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2020

70	33105070-Cut	128.0	42110 - Planted Red Pine	Sawtimber Well	66	141-170	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
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Prescription Thinning: Retain BA at approximately 100 BA throughout.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2020

75	33105075-Cut	19.4	4119 - Mixed Northern Hardwoods	Sawtimber Medium	75	51-80	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	No
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Prescription Clearcut: Leave any hemlock and cedar found.

Specs:

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

Treatments: (Re-Inventory); Pesticide, Other - Specify

Acceptable Planted red pine. Artificial regeneration.

Regen:

Other Small patch of aspen will get left out to the north toward the pipeline. This site will be planted to Red Pine.

Comment:

Site Condition

Proposed Start Date: 10/1 /2020



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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76	33105076-NF	17.8	31021 - Cool Season Grass	Nonstocked		NonForestMgt	Other - Specify	3102 - Grass		No
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Prescription Specs: Prescribed fire, farming (dozing, disking, raking, herbiciding, seeding (native or naturalized species only), fertilizing and liming, brushhog/saw removal of competing trees and establishment of native hard and soft mast producers such as red oak, crabapple or others. Also sharecropping could be considered for this opening.

Next Step Treatments:

Acceptable Regen:

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2020

82	33105082-NF	16.7	3105 - Mixed Upland Herbaceous	Nonstocked		NonForestMgt	Other - Specify	3102 - Grass		No
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Prescription Specs: Prescribed fire, farming (dozing, disking, raking, herbiciding, seeding (native or naturalized species only), fertilizing and liming, brushhog/saw removal of competing trees and establishment of native hard and soft mast producers such as red oak, crabapple or others. Also sharecropping could be considered for this opening.

Next Step Treatments:

Acceptable Regen:

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2020

87	33105087-NF	5.0	31021 - Cool Season Grass	Nonstocked		NonForestMgt	Other - Specify	3102 - Grass		No
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Prescription Specs: Prescribed fire, farming (dozing, disking, raking, herbiciding, seeding (native or naturalized species only), fertilizing and liming, brushhog/saw removal of competing trees and establishment of native hard and soft mast producers such as red oak, crabapple or others. Also sharecropping could be considered for this opening.

Next Step Treatments:

Acceptable Regen:

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2020



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
89 33105089-Cut	21.2	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	75	51-80	Harvest	Clearcut	4319 - Mixed Upland Forest	Even-Aged	No
<p><u>Prescription</u> Clearcut: Cut all trees except leave hemlock.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> SitePrep, Trenching; Pesticide, Other - Specify; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial</p> <p><u>Treatments:</u> Regen(3yr); Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable</u> Any mix of the overstory species.</p> <p><u>Regen:</u></p> <p><u>Other</u> SBW signs within the stand. Not much mortality to this point. This stand will be planted.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>										
102 33105102-NF	2.1	3102 - Grass	Nonstocked			NonForestMgt	Other - Specify	3102 - Grass		No
<p><u>Prescription</u> Prescribed fire, farming (dozing, disking, raking, herbiciding, seeding (native or naturalized species only), fertilizing and liming, brushhog/saw</p> <p><u>Specs:</u> removal of competing trees and establishment of native hard and soft mast producers such as red oak, crabapple or others. Also sharecropping could be considered for this opening.</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 /2020</p>										

Total Treatment 309
Acreage Proposed:

Report 4 – Site Conditions

Escanaba Mgt. Unit
Dan Racine: Examiner

Compartment: 105
Year of Entry: 2021

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	5B	5C	3J	3L	5E
		With Condition	Not Available						
533	521	9	3	Aspen	9		1		3
109	18	0	91	Cedar			67	25	
23	23	0	0	Hemlock					
88	88	0	0	Herbaceous Openland					
26	13	0	13	Low-Density Trees			13		
128	52	0	76	Lowland Conifers				76	
50	50	0	0	Lowland Deciduous					
26	26	0	0	Lowland Mixed Forest					
17	17	0	0	Lowland Shrub					
40	40	0	0	Lowland Spruce/Fir					
29	4	0	24	Marsh			24	0	
139	73	49	17	Mixed Upland Deciduous		49	17		
16	16	0	0	Natural Mixed Pines					
110	110	0	0	Northern Hardwood					
201	188	13	0	Red Pine	13				
4	4	0	0	Treed Bog					
43	43	0	0	Upland Conifers					
7	7	0	0	Upland Mixed Forest					
1	1	0	0	Upland Shrub					
17	12	5	0	Upland Spruce/Fir	5				
10	10	0	0	Water					
21	21	0	0	White Pine					
1,640	1,338	77	225	Total Forested Acres	28	49	122	100	3
	82%	5%	14%	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	3L: Other wildlife concerns	23	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Escanaba Mgt. Unit
Dan Racine: Examiner

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2	Unavailable	3L: Other wildlife concerns	53	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
3	Available	5B: Maintain for regeneration purposes	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Available	5B: Maintain for regeneration purposes	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Retention along cliff							
7	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	105	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Escanaba Mgt. Unit
Dan Racine: Examiner

Compartment: 105
Year of Entry: 2021

8	Available	5B: Maintain for regeneration purposes	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
9	Available	5B: Maintain for regeneration purposes	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
10	Unavailable	3L: Other wildlife concerns	25	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
12	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
13	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Escanaba Mgt. Unit

Dan Racine: Examiner

Compartment: 105

Year of Entry: 2021

14	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
15	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	23	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Look to harvest with adjacent stands next treatment period when they are ready.							
16	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	19	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Look to harvest with adjacent stands when they are ready next treatment period.							
23	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	0	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 Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in which the terrestrial ecosystem influences the aquatic ecosystem and vice-versa. Because of the unique conditions adjacent to lakes, streams and open water wetlands, riparian areas harbor a high diversity of plants and wildlife. Riparian communities are ecologically and socially significant in their effects on water quality and quantity, as well as aesthetics, habitat, bank stability, timber production, and their contribution to overall biodiversity.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																					
1	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	23.4	95	51-80	N/A	Variable stand with lowland conifer, lowland ash, lowland cedar, lowland deciduous, mixed lowland conifer types. This stand is same as stand 18.																																					
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2	6120 - Lowland Cedar	Poletimber Well	11.0	100		N/A																																						
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3	4136 - Aspen, Mixed Conifer	Poletimber Well	17.1	38	Unspecified	N/A	The western portion of this stand was an m6 stand. This was broken apart with some cedar moving to stand 18 and the hemlock portion to small to separate out staying with this stand. Some low areas and red maple and aspen.																																					
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4	6123 - Lowland Fir	Poletimber Medium	28.8	66		N/A	Harvested in 1996, Empty Nest Hdws, filling in with Fb, Fs. Pockets of cedar scattered throughout. Junk																																					
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5	4110 - Sugar Maple Association	Sawtimber Well	6.4	80	111-140	N/A	Treated in 1996, Empty Nest Hdws sale. 110, 90, 130																																					
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8	4139 - Aspen, Mixed Deciduous	Sawtimber Well	9.1	76	81-110	N/A	Harvested in '04 red maple and balsam fir are filling in. Some scattered red pine here as well. Age from maple not able to get a good age on the aspen now.																																																						
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Balsam Fir	40	Pole	8		Balsam Fir	High	10 - 20 feet	Sapling																																																					
10	31022 - Warm Season Grass	Nonstocked	2.1		Unspecified	Managed Opening	Sandy soil, appears to have been managed at some point in the past.																																																						
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11	3105 - Mixed Upland Herbaceous	Nonstocked	2.4			No																																																							
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12	6220 - Alder/willow	Nonstocked	16.7			No	Scattered conifer trees to the west.																																																						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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13 4112 - Maple, Beech, Cherry Association Sawtimber Well 34.1 75 51-80 N/A

This stand should have monitoring status with acceptable regeneration being a mix of the overstory. The harvest was completed under the Pipeline Hardwoods sale name. The sale was done and ready for closure on 12/19/2015. The north end was a 3.9 acre piece of aspen type moved into this stand.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	10	Log/Pole	10		Red Maple	High	5 - 10 feet	Sapling

15 3105 - Mixed Upland Herbaceous Nonstocked 1.7 No

Good regeneration onsite

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Low		Seeding
Tamarack	Low		Seeding
White Spruce	Low		Seeding
Poverty Grass	Medium		Non-Wood
Blackberry/Raspberry	Low		Tall Shrub
Unlisted - See Comments	Trace		
Balsam Poplar	Low		Seeding

*Unspecified Species: Bird's Foot Treefoil

16 4113 - R.Maple, Conifer Sawtimber Medium 14.6 80 51-80 N/A

Sale was completed under the Pipeline Hardwoods sale name and was completed on 12/4/2015. There is some red maple stump sprouting here however almost all browsed by the deer. Scattered other species of b.fir and few white spruce.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	65	Log/Pole	10	80	Balsam Fir	Low	10 - 20 feet	Sapling
Hemlock	10	Log/Pole	10		Ironwood	Low	10 - 20 feet	Sapling
Northern White Cedar	10	Pole	9					
Paper Birch	10	Log/Pole	10					

17 500 - Water Nonstocked 4.5 No

18 6128 - Lowland Coniferous, Mixed Deciduous Poletimber Well 52.5 95 51-80 N/A

Variable stand with lowland conifer, lowland ash, lowland cedar, lowland deciduous, mixed lowland conifer types.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	15	Pole	8		Balsam Fir	High	Variable	Sapling
Black Spruce	10	Pole	8		Black Spruce	Medium	5 - 10 feet	Sapling
Northern White Cedar	45	Pole	9	95	Tag Alder	Medium	5 - 10 feet	Tall Shrub
Black Ash	15	Pole	6					

19 6239 - Mixed Emergent Wetland Nonstocked 2.5 No

Pipeline

Sub-Canopy Species	Density	Avg. Height	Size
Tag Alder	Medium		Tall Shrub
Willow spp.	Medium	Unspecified	Tall Shrub
Mountain Alder	Low	Unspecified	Tall Shrub
Mixed Grasses	High		Non-Wood
Unspecified	Unspecified	Unspecified	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
20	4130 - Aspen	Poletimber Well	24.9	27	1-50	N/A	Low ground heavier to tamarack, near pond F4F3
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Quaking Aspen		95	Pole/Sapling	5	27	Red Maple	
						Balsam Fir	
						Black Spruce	
						Density	Avg. Height
						Low	10 - 20 feet
						High	Variable
						Low	5 - 10 feet
							Size
							Sapling
							Sapling
							Sapling
21	4136 - Aspen, Mixed Conifer	Poletimber Well	17.3	37		N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Quaking Aspen		75	Pole/Sapling	7	37	Red Maple	
Balsam Fir		15	Pole/Sapling	8		Balsam Fir	
						Density	Avg. Height
						Medium	10 - 20 feet
						High	10 - 20 feet
							Size
							Sapling
							Sapling
22	42340 - Upland Spruce/Fir	Poletimber Medium	7.5	60		N/A	Stand was harvested in 2004, Pipeline West sale. Stand is filling in with Fb.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Balsam Fir		50	Pole	8	60	Balsam Fir	
White Spruce		30	Pole	6			
Red Maple		20	Pole	9			
						Density	Avg. Height
						High	Variable
							Size
							Sapling
23	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	11.8	76	51-80	N/A	Old timber here with some falling prt in the balsam fir and aspen.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Maple		35	Log/Pole	10	76	Red Maple	
Paper Birch		10	Log/Pole	10		Quaking Aspen	
Quaking Aspen		25	Log/Pole	10		Balsam Fir	
Balsam Fir		20	Pole	9		White Pine	
						Density	Avg. Height
						Low	5 - 10 feet
						Medium	5 - 10 feet
						High	10 - 20 feet
						Low	< 5 feet
							Size
							Sapling
							Sapling
							Sapling
24	42390 - Mixed Non-Pine Upland Conifers	Poletimber Well	9.7	37	51-80	N/A	Older red maple, aspen and areas of older balsam fir. Cut with the adjacent stand to east wjen that is cut. I dont see much for spruce budworm damage can wait to cutwith adjacent stand.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Maple		15	Pole	8		Balsam Fir	
Quaking Aspen		7	Pole/Sapling	5		White Spruce	
Balsam Fir		43	Pole/Sapling	7	37		
						Density	Avg. Height
						High	10 - 20 feet
						Low	< 5 feet
							Size
							Sapling
							Sapling
25	42110 - Planted Red Pine	Poletimber Well	15.2	67	81-110	N/A	res ba- 100,
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Pine		100	Log/Pole	12	67	Red Maple	
						Balsam Fir	
						Density	Avg. Height
						Low	< 5 feet
						Low	< 5 feet
							Size
							Sapling
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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26 4191 - Mixed Upland Deciduous with Conifer Poletimber Well 5.9 76 51-80 N/A This stand was treated in 1997 "Laraby Creek Hdws. Paper birch, aspen and mix of other species.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	20	Pole	9		Balsam Fir	Medium	5 - 10 feet	Sapling
Paper Birch	50	Pole	9	76	White Pine	Low	Variable	Sapling
Bigtooth Aspen	10	Log/Pole	10		Black Spruce	Low	5 - 10 feet	Sapling

27 3105 - Mixed Upland Herbaceous Nonstocked 6.9 No

Sub-Canopy Species	Density	Avg. Height	Size
Poverty Grass	Trace		Non-Wood
Tag Alder	Low		Tall Shrub
Willow spp.	Low		
Mixed Grasses	High		Non-Wood
Sedges	Trace		Non-Wood

28 4136 - Aspen, Mixed Conifer Sapling Well 39.6 15 1-50 N/A Stand was treated in 2004, Pipeline West sale. Stand is filling in with A and Fb.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	30	Sapling/Pole	3	15	Red Maple	Medium	5 - 10 feet	Sapling
Paper Birch	10	Sapling/Pole	3		Quaking Aspen	High	5 - 10 feet	Sapling
Quaking Aspen	40	Sapling/Pole	2	15	Balsam Fir	High	Variable	Sapling
Balsam Fir	15	Pole	7					

29 31021 - Cool Season Grass Nonstocked 8.1 No Gas pipeline - Good pine regeneration along pine stands on the perimeter

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Poplar	Trace		Seeding
Spotted Knapweed	Trace		Non-Wood
Mixed Grasses	Full		Non-Wood
Tag Alder	Trace		Tall Shrub
Blackberry/Raspberry	Trace		Tall Shrub
Red Pine	Low		Seeding

30 4130 - Aspen Poletimber Well 25.4 37 N/A Let it go let it grow.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	10	Pole/Sapling	5		Red Maple	Low	10 - 20 feet	Sapling
Paper Birch	10	Pole/Sapling	5		Balsam Fir	High	10 - 20 feet	Sapling
Quaking Aspen	70	Pole/Sapling	7	37				
Balsam Fir	10	Pole/Sapling	7					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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31 42390 - Mixed Non-Pine Upland Conifers Sapling Well 6.3 22 Immature N/A Treated in 1997, Laraby Creek hwdws.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	30	Sapling	3	22	Black Spruce	High	Variable	Sapling
Tamarack	25	Sapling	3	22	Tamarack	High	Variable	Sapling
White Pine	33	Sapling	3	22				

32 6132 - Mixed Lowland Forest with Cedar Poletimber Medium 12.6 92 1-50 N/A Cedar on the south with cedar mixed in other areas. Red maple, then to lowland ash. Mix between upland and lowland type here.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	35	Pole	9		Balsam Fir	Medium	Variable	Sapling
Northern White Cedar	35	Pole	9	92	Black Spruce	Low	5 - 10 feet	Sapling
Black Ash	10	Pole	7		White Pine	Medium	Variable	Sapling
					Tag Alder	Low	5 - 10 feet	Tall Shrub

33 330 - Low-Density Trees Nonstocked 13.3 Immature 6129 - Mixed Coniferous Lowland Forest This stand is a black spruce stand that wont allow change due to lowland vs upland error. Stand was cut under the sale name Rolling Hills Mix and was cut and ready for sale closure on 03/27/2015. Leave trees were marked every 50 feet. This leaves it close to 25% canopy closure with a mix of black spruce and white pine. Black spruce seedlings are popping up in bunches in sphagnum moss areas. Less than 1 foot tall at the moment.

34 42210 - Natural Red Pine Sawtimber Well 5.8 88 51-80 N/A Look at thinning or cut harder to seed tree next treatment period. Some time before the pine is to big to market.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	90	Log/Pole	12	88	Red Maple	Low	5 - 10 feet	Sapling
					Quaking Aspen	Low	5 - 10 feet	Sapling
					Balsam Fir	Medium	5 - 10 feet	Sapling
					Black Spruce	Medium	5 - 10 feet	Sapling

35 4112 - Maple, Beech, Cherry Association Sawtimber Well 11.2 80 1-50 N/A Black cherry here as well, just cut allow to keep regenerating.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	92	Log/Pole	10	80	Sugar Maple	Medium	5 - 10 feet	Sapling
					Red Maple	Medium	5 - 10 feet	Sapling
					Balsam Fir	High	Variable	Sapling
					Hazelnut (Spp.)	Low	5 - 10 feet	Tall Shrub

36 3303 - Mixed Low Density Trees Nonstocked 12.8 No



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																										
37	6118 - Lowland Deciduous with Cedar	Poletimber Poor	15.7	76	1-50	N/A	Junk stand very wet and tag alder however the southeast corner to north of 29th lane was a small piece cut under a timber sale with scattered red maple and few pine left. This portion is upland but too small to break apart. This could end up being harvested with stand 58 in the future.																																										
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38	6122 - Black Spruce	Sapling Medium	40.1	71		N/A	Some parts have 7-8" dbh timber (mostly along the edge. Smaller, 2-3" dbh in middle and north.																																										
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39	42340 - Upland Spruce/Fir	Sapling Medium	4.5	34		N/A																																											
40	3105 - Mixed Upland Herbaceous	Nonstocked	1.0			No	*Unlisted = Bird's Foot Treefoil																																										
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41	6115 - Lowland Ash	Poletimber Well	18.0	75	1-50	N/A																																											
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42	4112 - Maple, Beech, Cherry Association	Poletimber Well	9.6	78	51-80	N/A	Harvested in 2004, Pipeline East Sale, paper birch and blackcherry																																										
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44	4134 - Aspen, Spruce/Fir	Poletimber Well	43.7	38		N/A	Balsam Fir with Tamarack makes up the conifer.																																													
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45	31022 - Warm Season Grass	Nonstocked	1.1			No																																														
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46	4130 - Aspen	Poletimber Well	7.4	34		N/A	South end is heavier to balsam fir and spruce.																																													
47	4199 - Other Mixed Upland Deciduous	Poletimber Poor	22.7	76	1-50	N/A	Harvested in 2004, Pipeline West Sale. Stand was selectively harvested.																																													
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48	6224 - Treed Bog	Nonstocked	4.4			No	Pipeline																																													
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49	4130 - Aspen	Sawtimber Medium	9.4	75	1-50	N/A	Stand was cut under the sale name Rolling Hills Mix and was ready for sale closure on 03/27/2015. Stand just cut and goal was to allow more pine to seed in. If that is objective then let go but will have to cut by next treatment period or loose all aspen. Pine may be high enough then to not weevil.																																													
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51	42210 - Natural Red Pine	Sawtimber Well	7.6	88	81-110	N/A	Stand was thinned to a BA of 90-100. The thinning was done under the sale name Rolling Hills Mix and was completed and ready for closure on 03/27/2015.																																									
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53	4133 - Aspen, Mixed Pine	Poletimber Well	4.6	37		N/A																																										
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54	4191 - Mixed Upland Deciduous with Conifer	Poletimber Medium	21.5	76	1-50	N/A	Treated in 2004, Pipeline West sale																																									
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57	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	19.3	72	51-80	N/A	Was harvested in 2004, Pipeline East sale. Pocket of hemlock to the north and central.																																									
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																					
58	4130 - Aspen	Poletimber Well	35.1	37	51-80	N/A	Small piece to the east line was an open area with black cherry, balsam fir and white pine scattered in the opening.																																					
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60	4199 - Other Mixed Upland Deciduous	Poletimber Well	15.4	76	51-80	N/A	Buffer along the creek can remove mature timber.																																					
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61	4130 - Aspen	Poletimber Well	15.0	37	81-110	N/A	Aspen with mix of other minor species.																																					
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62	42200 - Natural White Pine	Sawtimber Medium	20.9	88	51-80	N/A	Stand was thinned to a BA of 70-80 under the sale name Rolling Hills Mix. The thinning was completed and the sale was ready for closure on 03/27/2015.																																					
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63	4130 - Aspen	Sawtimber Well	7.1	73	81-110	N/A	Not sure of big tooth vs quaking but a mix of both.																																					
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64	500 - Water	Nonstocked	5.4			No	Water control structure onsite																																					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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65 429 - Mixed Upland Conifers Poletimber Poor 4.9 58 1-50 N/A filling in with A, Rm, W, Fb,

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	30	Pole	9	58	Red Maple	High	5 - 10 feet	Sapling
Quaking Aspen	10	Pole/Sapling	7		Quaking Aspen	High	10 - 20 feet	Sapling
White Pine	20	Log	12		Balsam Fir	High	Variable	Sapling
Red Pine	15	Pole	9		White Pine	Low	5 - 10 feet	Sapling
Hemlock	10	Log/Pole	10		White Spruce	Low	< 5 feet	Sapling
Northern White Cedar	15	Pole	9					

66 31021 - Cool Season Grass Nonstocked 3.2 No

Sub-Canopy Species	Density	Avg. Height	Size
Spotted Knapweed	Low		Non-Wood
White Pine	Low		Pole
Mixed Grasses	High		Non-Wood
Poverty Grass	Low		Non-Wood

67 4130 - Aspen Poletimber Well 32.4 37 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	90	Pole	8	37	Balsam Fir	High	10 - 20 feet	Sapling
					White Spruce	Low	10 - 20 feet	Sapling
					Black Cherry	Low	10 - 20 feet	Sapling

68 4130 - Aspen Poletimber Well 25.0 30 51-80 N/A Variable dbh from 4 to 7 inches

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	90	Pole/Sapling	7	30	Red Maple	Low	10 - 20 feet	Sapling
					White Pine	Medium	Variable	Sapling
					Balsam Fir	Medium	Variable	Sapling

69 4133 - Aspen, Mixed Pine Poletimber Well 27.1 38 N/A Residual Red and White pine were left, larger red pine are in the north east corner of stand. Imagery shows the areas with more balsam fir and more pine to east side of stand 90.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	10	Sapling/Pole	5		Red Maple	Medium	10 - 20 feet	Sapling
Quaking Aspen	50	Pole/Sapling	6	38	Balsam Fir	High	Variable	Sapling
Balsam Fir	15	Pole	8		White Spruce	Low	10 - 20 feet	Sapling
White Pine	20	Pole/Log	9		White Pine	High	Variable	Sapling
					Red Pine	Low	Variable	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																		
70	42110 - Planted Red Pine	Sawtimber Well	128.0	66	141-170	N/A	This stand had been harvested under the Pipeline East Sale completed in 2004. Open areas that appear on photo are filling in with red pine seedlings. West and north areas of the stand contain balsam fir regeneration. A few white pine and couple open areas.																																																		
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71	4133 - Aspen, Mixed Pine	Sapling Poor	9.0	20	Immature	N/A	Filling in with A, W3, Fb and some cherry.																																																		
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72	3205 - Mixed Upland Shrub	Nonstocked	1.5			No	Lots of slash and snags Natural regeneration occurring																																																		
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74	6124 - Lowland Spruce-Fir	Poletimber Medium	23.7	47	1-50	N/A	Heavy to balsam in the south, more spruce in the north. Mix of spruce/fir, white pine with scattered aspen and R. maple. Ridge upland lowland swale with black spruce and lowland conifer.																																																		
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75	4119 - Mixed Northern Hardwoods	Sawtimber Medium	20.6	75	51-80	N/A	Stand was cut in 2004, Pipeline West sale. Small patch of aspen in north part of stand lumped in due to mapping rules. More red maple here than stand to the east. More balsam fir regeneration.																																																		
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76	31021 - Cool Season Grass	Nonstocked	17.8			No	Pipeline. Opening.																																							
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78	4134 - Aspen, Spruce/Fir	Poletimber Well	29.6	35	51-80	N/A	Stand 77 was merged into this stand. Stand 77 was treated or small portion was treated in 2001 under the lost kitten sale. This stand has red maple, aspen, balsam, cedar, few black spruce, paperbitch, and hemlock. A few black ash as well.																																							
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79	4130 - Aspen	Sapling Well	15.5	5	Immature	N/A	Stand was cut under the sale name Southside Mix. Sale number 330091101. Stand was cut and left with a residual of red maple, balsam fir and pine. Red pine on the bluff edge..																																							
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80	42330 - Upland Fir	Poletimber Poor	5.0	68	1-50	N/A	Cut in 2004, Pipeline East Sale. Mix of RM, A, and fir in the understory. Scattered residual Fir, RM, and aspen in the overstory. Stand is in process of regeneration.																																							
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81	4136 - Aspen, Mixed Conifer	Poletimber Well	11.5	38	81-110	N/A	The south end was a piece of the southside mix sale that was harvested. Not much was really cut there and no regeneration. This piece is now included with this stand 81 and harvest the entire stand which at that time will look at leave species of hemlock and other minor component. The rest gets clearcut and regeneration should be addressed at that time which should be next treatment period.																																							
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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82 3105 - Mixed Upland Herbaceous Nonstocked 16.7 No Pipeline. Opening.

Sub-Canopy Species	Density	Avg. Height	Size
Blueberry/Bilberry/Cranberry	Low		Tall Shrub
Spotted Knapweed	Trace		Non-Wood
Red Pine	Medium		Seeding
Bracken Fern	Trace		Non-Wood
Mixed Grasses	High		Non-Wood
Blackberry/Raspberry	Low		Tall Shrub
Poverty Grass	Low		Non-Wood

83 42260 - Natural Pine, Mixed Deciduous Sawtimber Well 15.9 90 51-80 N/A

Some of the big tooth in canopy and some in sub canopy with canopy dbh from 8-10 inches. West side of stand was not cut due to ridge. Stand was cut under the sale name Southside Mix and was ready for sale closure 09/16/2014.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	20	Log/Pole	10		Red Maple	High	10 - 20 feet	Sapling
Red Pine	40	Log	14	90	Balsam Fir	Medium	10 - 20 feet	Sapling
Bigtooth Aspen	35	Pole	9	42	Bigtooth Aspen	Low	5 - 10 feet	Sapling

85 4139 - Aspen, Mixed Deciduous Sapling Well 29.8 14 Immature N/A Stand cut in 2005.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	33	Sapling/Pole	2		Red Maple	High	< 5 feet	Sapling
Bigtooth Aspen	50	Sapling	3	14	Bigtooth Aspen	High	< 5 feet	Sapling
Balsam Fir	10	Pole	9		Balsam Fir	High	< 5 feet	Sapling

86 4130 - Aspen Poletimber Well 6.3 30 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	15	Pole	6		Balsam Fir	High	Variable	Sapling
Bigtooth Aspen	80	Pole	6	30	White Pine	Low	Variable	Sapling
					Red Pine	Medium	Variable	Sapling

87 31021 - Cool Season Grass Nonstocked 5.0 No Scattered red pine and some b.fir

Sub-Canopy Species	Density	Avg. Height	Size
White Spruce	Low		Seeding
White Pine	Trace		Seeding
Bracken Fern	Low		Non-Wood
Aspen (spp.)	Medium		
Mixed Grasses	High		Non-Wood
Blueberry/Bilberry/Cranberry	Low		Tall Shrub



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
88	4130 - Aspen	Sapling Well	5.3	5	Immature	N/A	Stand cut in 2014
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Quaking Aspen		80	Sapling	1	5	Balsam Fir	
Bigtooth Aspen		14	Sapling	2		White Pine	
						Red Pine	
						Density	Avg. Height
						Low	< 5 feet
						Low	< 5 feet
						Low	< 5 feet
							Size
							Sapling
							Sapling
							Sapling
89	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	21.2	75	51-80	N/A	Harvested in 2004, Pipeline East Sale.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Maple		43	Log/Pole	10	75	Red Maple	
Paper Birch		25	Log/Pole	10		Quaking Aspen	
Quaking Aspen		10	Log/Pole	10		Balsam Fir	
Balsam Fir		10	Pole	9			
						Density	Avg. Height
						Medium	5 - 10 feet
						Medium	5 - 10 feet
						High	10 - 20 feet
							Size
							Tall Shrub
							Tall Shrub
							Tall Shrub
90	42110 - Planted Red Pine	Sawtimber Well	7.0	55	141-170	N/A	Good quality
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Pine		100	Pole/Log	10	55	Balsam Fir	
						Density	Avg. Height
						Low	< 5 feet
							Size
							Sapling
91	6233 - Wet Meadow	Nonstocked	24.5			No	River Corridor of the Tacoosh River.
Sub-Canopy Species		Density	Avg. Height	Size			
Sedges		Full		Non-Wood			
Tag Alder		Low		Tall Shrub			
92	4133 - Aspen, Mixed Pine	Poletimber Well	43.2	38		N/A	Residual Red and White pine were left, larger red pine are in the north east corner of stand. Imagery shows the areas with more balsam fir and more pine to east side of stand 90.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Maple		10	Sapling/Pole	5		Red Maple	
Quaking Aspen		50	Pole/Sapling	6	38	Balsam Fir	
Balsam Fir		15	Pole	8		White Spruce	
White Pine		20	Pole/Log	9		White Pine	
						Red Pine	
						Density	Avg. Height
						Medium	10 - 20 feet
						High	Variable
						Low	10 - 20 feet
						High	Variable
						Low	Variable
							Size
							Sapling
							Sapling
							Sapling
							Sapling
93	42350 - Upland Hemlock	Sawtimber Medium	17.1	99	111-140	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
White Pine		10	XLog/Log	20		Red Maple	
Hemlock		80	Log/Pole	10	99	Quaking Aspen	
						Balsam Fir	
						White Pine	
						Density	Avg. Height
						Medium	10 - 20 feet
						Medium	10 - 20 feet
						Medium	10 - 20 feet
						High	10 - 20 feet
							Size
							Sapling
							Sapling
							Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
94	4136 - Aspen, Mixed Conifer	Poletimber Well	21.3	38		N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen		80	Pole/Sapling	6	38	Balsam Fir	Medium	10 - 20 feet	Sapling
Balsam Fir		15	Sapling/Pole	4		White Spruce	Low	10 - 20 feet	Sapling
						White Pine	Medium	10 - 20 feet	Sapling
95	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	21.5	84	81-110	N/A	Bluff, some springs are located in this stand. Ridges and swales.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		15	Log/Pole	10		Balsam Fir	Medium	5 - 10 feet	Sapling
Paper Birch		25	Log/Pole	10		White Spruce	Medium	5 - 10 feet	Sapling
Quaking Aspen		35	Log	14	84	White Pine	Medium	5 - 10 feet	Sapling
Northern White Cedar		10	Log	12					
96	4130 - Aspen	Poletimber Well	21.4	37	81-110	N/A	This stand will be ready thd next treatment period.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen		65	Pole	8	37	Red Maple	Low	10 - 20 feet	Sapling
Balsam Fir		15	Pole	8		Paper Birch	Low	10 - 20 feet	Sapling
Bigtooth Aspen		15	Pole	8		Balsam Fir	High	Variable	Sapling
97	429 - Mixed Upland Conifers	Poletimber Well	5.2	37	51-80	N/A	Some spruce budworm in places.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen		20	Pole/Sapling	5		Balsam Fir	Medium	10 - 20 feet	Sapling
Balsam Fir		30	Pole/Sapling	5	37	White Spruce	Medium	Variable	Sapling
White Spruce		20	Pole/Sapling	5		White Pine	Medium	10 - 20 feet	Sapling
White Pine		15	Pole/Sapling	5		Red Pine	Medium	10 - 20 feet	Sapling
Red Pine		10	Pole/Sapling	6					
98	42110 - Planted Red Pine	Poletimber Well	21.2	55	81-110	N/A	Good quality Sale was complete and ready for closure on 03/04/2015		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine		98	Pole/Log	10	55	Balsam Fir	Low	< 5 feet	Sapling
99	429 - Mixed Upland Conifers	Poletimber Poor	16.7	76	1-50	N/A	Harvested in 2004, Pipeline East Sale. Lotof residual. Allow regeneration to continue. Not worth harvest		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		20	Pole	9		Red Maple	Medium	5 - 10 feet	Sapling
Balsam Fir		50	Pole	9	76	Quaking Aspen	High	10 - 20 feet	Sapling
White Pine		10	Log	12		Balsam Fir	Medium	10 - 20 feet	Sapling
Red Pine		10	Pole/Log	9					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments					
101	6233 - Wet Meadow	Nonstocked	2.0			No	Flood Plain Lots of down wood and snags. Old beaver activity					
								Sub-Canopy Species	Density	Avg. Height	Size	
								Tag Alder	Low		Tall Shrub	
								Sedges	Full		Non-Wood	
102	3102 - Grass	Nonstocked	2.1			No						
								Sub-Canopy Species	Density	Avg. Height	Size	
								Mixed Grasses	Medium		Non-Wood	
								Bracken Fern	Medium		Non-Wood	
								Poverty Grass	Medium		Non-Wood	
Blueberry/Bilberry/Cranberry	Medium		Tall Shrub									
103	42350 - Upland Hemlock	Sawtimber Well	6.3	100	51-80	N/A	Adjust the boundary.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Red Maple	20	Log/Pole	10	
								Yellow Birch	10	Log	12	
								Paper Birch	10	Pole	9	
								Hemlock	50	Log/Pole	10	100
Sub-Canopy Species	Density	Avg. Height	Size									
Balsam Fir	Low	10 - 20 feet	Sapling									
Northern White Cedar	Low	10 - 20 feet	Pole									
104	4112 - Maple, Beech, Cherry Association	Poletimber Poor	13.8	76	51-80	N/A	Small 1 acre patch of swamp hardwoods along private/compartament boundary; too small to break off. Stand is regenerating to aspen with scattered balsam fir. Stand was cut in 2014. Lots of raspberries and some blackberries in the understory. Red maple that has stump sprouted is all browsed. Residual red maple left has lessened opportunity for red maple stump sprouting. This stand is adequate barely for regeneration, see over time scarify or planting in open areas.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Sugar Maple	20	Log/Pole	10	
								Red Maple	60	Pole/Log	9	76
								Balsam Fir	20	Pole	8	
								Sub-Canopy Species	Density	Avg. Height	Size	
Blackberry/Raspberry	High	5 - 10 feet	Tall Shrub									
Quaking Aspen	High	5 - 10 feet	Sapling									
105	6120 - Lowland Cedar	Poletimber Well	7.1	100		N/A	Good quality cedar.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Northern White Cedar	95	Pole	9	100
								Sub-Canopy Species	Density	Avg. Height	Size	
Balsam Fir	Low	< 5 feet	Tall Shrub									
Black Spruce	Low	< 5 feet	Tall Shrub									
107	6119 - Mixed Lowland Deciduous Forest	Poletimber Medium	10.2	66	1-50	N/A	Sparse stand and not much timber here.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Red Maple	50	Pole	8	66
								Paper Birch	10	Pole/Sapling	7	
								Balsam Poplar	20	Pole/Sapling	5	
								Balsam Fir	10	Pole/Sapling	7	
								Black Ash	10	Pole	8	
Sub-Canopy Species	Density	Avg. Height	Size									
Red Maple	Low	< 5 feet	Sapling									
Balsam Fir	High	5 - 10 feet	Sapling									
108	611 - Lowland Deciduous Forest	Poletimber Well	5.7	72		N/A	Did not check in field in 2021 year of entry.					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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109	6139 - Mixed Lowland Forest	Sapling Poor	13.5	4	Immature	N/A	Small pocket of cedar on east side. Approximately 3 acres. Small cedar pocket was broken out and not included in the latest stand treatment. Stand was cut under sale name Rusty Chevrolet and was ready for closure on 03/04/2015. 1 good quality seed tree was left every 50'. Scattered cedar, p.birch, tamarack, balsam fir, black spruce in the overstory. White spruce, balm,catails in the understory. Tag alder too. East is b.fir about 4 inches, just not much of a stand. Stand 106 part of the Rusty chevy sale was merged into this stand. Q type for now.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Paper Birch		10	Sapling	1	4	Tag Alder		Low	5 - 10 feet	Tall Shrub	
Quaking Aspen		15	Sapling	1	4	Cattail spp.		Low	Unspecified	Non-Wood	
Balsam Fir		15	Sapling	1	4						
Black Spruce		20	Sapling	1	4						
Northern White Cedar		10	Pole	9	4						
Red Maple		10	Sapling	4							
Tamarack		10	Sapling	1							
Balsam Poplar		10	Sapling	1							

115	6120 - Lowland Cedar	Poletimber Well	91.2	105	81-110	N/A	Leave as buffer along Tacoosh creek.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Paper Birch		10	Pole	8		Balsam Fir		Medium	Variable	Sapling
Balsam Fir		10	Pole/Sapling	8		Black Spruce		Low	Variable	Sapling
Black Spruce		20	Pole	8		Tag Alder		High	5 - 10 feet	Tall Shrub
Northern White Cedar		50	Pole	9	105					