

*The United Counties of Prescott and Russell  
County Forest Lands  
Forest Management Plan  
2009-2028*



*Section C: Five Year Operating Plan (2011-2015)*

Prepared By: Manon Besner, Forest Technician  
United Counties of Prescott and Russell

Nick Gauthier, Forest Technician  
United Counties of Prescott and Russell

Steven Hunter R.P.F., Forestry Specialist  
South Nation Conservation

Sonya Roy, GIS Coordinator  
United Counties of Prescott and Russell

**THE UNITED COUNTIES OF PRESCOTT AND RUSSELL**  
**COUNTY FOREST LANDS:**  
**FOREST MANAGEMENT PLAN**

**Documents**

**SECTION A:** FOREST POLICY PLAN

**SECTION B:** TWENTY YEAR MANAGEMENT PLAN (2009 to 2028)

**SECTION C:** FIVE YEAR OPERATING PLAN (2011 to 2015)

**Commonly Used Terms and Acronyms**

United Counties of Prescott and Russell	“UCPR” or “County”
UCPR County Forest	“County Forest” or “Forest”
Eastern Ontario Model Forest	EOMF
Forest Resource Inventory	FRI
Geographic Information System	GIS
Ontario Ministry of Natural Resources	OMNR
Registered Professional Forester	R.P.F.
South Nation Conservation	SNC

**THE UNITED COUNTIES OF PRESCOTT AND RUSSELL**  
**COUNTY FOREST LANDS:**  
**FOREST MANAGEMENT PLAN**

**TABLE OF CONTENTS**

<b><u>Section C: Five Year Operating Plan (2011-2015)</u></b>	<b>Page</b>
C-1.0 REPORT ON PAST FOREST OPERATIONS.....	4
C-1.1 Summary of Forest Management for the 2005-2010 Operating Period .....	4
C-2.0 FIVE YEAR OPERATING PLAN.....	8
C-2.1 Management Direction .....	8
C-2.2 Commercial Harvest .....	8
C-2.2.1 Annual Harvest Area .....	8
C-2.2.2 Intensive Management Areas .....	10
C-2.2.3 Carry-Over From 2005-2010 Five Year Operating Plan.....	12
C-2.2.4 Compartments Selected For Harvest Operations.....	12
C-2.2.5 Contingency Harvest Areas.....	14
C-2.3 Renewal and Tending.....	14
C-2.3.1 Regeneration .....	15
C-2.3.2 Manual and Chemical Tending .....	16
C-2.3.3 Pre-Commercial Thinning and Stand Improvement.....	16
Appendix A – Compartments Selected For Harvest Operations For The 2011-2015 Operating Period .....	17
Appendix B – Compartments Selected For Regeneration Treatment For The 2011-2015 Operating Years .....	44

## **C-1.0 REPORT ON PAST FOREST OPERATIONS**

### **C-1.1 Summary of Forest Management for the 2005-2010 Operating Period**

Forest management activities were quite active during the 2005-2010 operating period after 5 years of minimal activity after OMNR returned management responsibility to UCPR. Plantation thinning, harvesting to establish regeneration, tree planting and tending of planted stock are some examples of the forest management activities that occurred during the period.

The 5 Year Operation Plan for the Larose Forest (2005-2010) established a preliminary annual harvest area and provided sub-compartments where forest operations were an option. Field investigation confirmed treatment eligibility and provided the basis for the development of harvest prescriptions. Generally, the prepared harvest area was less than what was planned, except for red pine. This was a function of the scheduled harvest area not being able to support a viable harvest operation (e.g. poor markets for certain species – i.e. white pine pulp, insufficient volume / stocking, etc.). Renewal and tending was discussed in the 2005-2010 Five Year Operating Plan, but options for treatment were limited to areas affected by the 1998 ice storm.

Table 1 compares the area prepared harvest to the allowable harvest area for each forest unit, Table 2 provides a summary of the harvesting activities that occurred during the 2005-2010 period and renewal and tending activities are summarized in Table 3.

Table 1. Comparison of area prepared for harvest to the allowable harvest area summarized by forest unit for the 2005-2010 operating period.

<b>Forest Unit</b>	<b>Allowable Harvest Area (ha)</b>	<b>Actual Harvest Area (ha)</b>	<b>% Difference</b>
Pr	336.1	359.0	<b>6.9</b>
Pw	203.0	181.4	<b>(10.6)</b>
Sw	282.2	121.9	<b>(56.8)</b>
OC (plantation)	47.8	30.4	<b>(36.4)</b>
OC (natural)	0.0	0.0	<b>0</b>
IH	0.0	0.4	<b>n/a</b>
Mr-Int	0.0	17.5	<b>n/a</b>
Hwd Sel	54.5	15.3	<b>(71.9)</b>
<b>Total</b>	<b>923.6</b>	<b>725.9</b>	<b>(21.4)</b>

Table 2. Summary of the harvesting activities on the UCPR County Forest during the 2005-2010 operating period.

Harvest Activities								
Tender Sale #	Compartment	Contractor	Area (ha)	Species	Volume (m3)	Utility Poles	Revenue	Status
2005-01	158, 159	Laverne Heideman and Son	11.7	Pr	935.5	0	\$25,724.85	Complete
2005-02	158	Laverne Heideman and Son	24.8	Pw, Ta/La, Sw	1,837.7	0	\$19,671.10	Complete
2005-03a	134, 159	Laverne Heideman and Son	27.4	Pw, Ta/La, Sw	2004.6	0	\$21,341.53	Complete
2005-03b	134, 159	Guillaume Racine	6.7	Mr, Po	372.0	0	\$3,395.00	Complete
<b>2005 Total</b>			<b>70.6</b>		<b>5,149.8</b>	<b>0</b>	<b>\$70,132.48</b>	
2006-01	100, 101	André Forest Products	17.2	Pw, Pr, Sw	672.2	0	\$5,457.47	Complete
2006-02	102, 316	Guillaume Racine	17.1	Pr, Sw	953.9	0	\$25,325.09	Complete
2006-03	102	M. W. Miller	14.1	Pr, Sw	618.7	0	\$12,494.81	Complete
2006-04	79	André Forest Products	22.0	Pr, Sw, Pw	284.9	0	\$3,873.60	In Progress
2006-05	182, 373	Laverne Heideman and Son	38.5	Pr, Pw	3,655.1	453	\$86,653.26	Complete
2006-06	61, 62	Laverne Heideman and Son	28.4	Pr, Sw, Ta/La	2,375.7	259	\$53,002.04	Complete
<b>2006 Total</b>			<b>137.3</b>		<b>8,560.5</b>	<b>712</b>	<b>\$186,806.27</b>	
2007-01	104, 329	Laverne Heideman and Son	15.4	Pr, Pw, Sw	1,265.2	0	\$11,681.55	Complete
2007-02	50, 66	Laverne Heideman and Son	24.3	Pr, Pw, Sw, Ta/La	1,448.0	0	\$17,294.01	In Progress
2007-03	106, 108	Laverne Heideman and Son	8.0	Pr	517.7	0	\$12,941.58	Complete
2007-04	138, 139	Laverne Heideman and Son	23.8	Pr, Pw, Sw	3,011.6	0	\$51,932.75	Complete
2007-06	51	Ken Staniforth	17.4	Pr	1,189.3	1,187	\$77,004.69	Complete
<b>2007 Total</b>			<b>88.5</b>		<b>7,431.8</b>	<b>1,187</b>	<b>\$157,913.00</b>	
2008-01	330-342	Produits Forestiers Startrees	9.8	Sw	412.6	0	\$5,169.37	Complete
2008-02	52	Produits Forestiers Startrees	10.0	Pr, Pw, Sw	890.1	0	\$9,824.57	Complete
2008-03	53	Produits Forestiers Startrees	19.4	Pr, Pw, Ta/La, Sw	1,564.3	0	\$14,020.62	Complete
2008-04	68, 69	Produits Forestiers Startrees	22.4	Pr, Sw, Pw	1,457.2	0	\$14,383.34	Complete
2008-05	33, 34, 35, 36	Laverne Heideman and Son	24.2	Pr, Sw, Sn	0.0	0	\$0.00	In Progress
2008-06	289, 290	Produits Forestiers Startrees	11.0	Pw	720.9	0	\$2,746.94	Complete
2008-07	294, 295, 300, 301	Produits Forestiers Startrees	71.5	Pw, Sw, Ta/La, Pr	8,329.9	0	\$69,000.45	In Progress
2008-08	375	Produits Forestiers Startrees	23.9	Pw, Pr, Sw, Ta/La	1,206.4	0	\$9,312.13	In Progress
2008-09	368	Laverne Heideman and Son	4.9	Pr, Sw	576.4	0	\$7,017.75	Complete
2008-10	304	Laverne Heideman and Son	17.1	Pw	1,271.0	0	\$18,239.62	Complete
<b>2008 Total</b>			<b>214.2</b>		<b>16,428.8</b>	<b>0</b>	<b>\$149,714.79</b>	

Harvest Activities								
Tender Sale #	Compartment	Contractor	Area (ha)	Species	Volume (m3)	Utility Poles	Revenue	Status
2009-01	357	Produits Forestiers Startrees	18.3	Mr, Sw, Bf, Pw, Po	1,662.0	0	\$12,437.03	Complete
2009-02	340, 341, 359	Produits Forestiers Startrees	7.9	Pr, Pw	1,191.0	0	\$11,357.16	Complete
2009-03	84	Laverne Heideman and Son	7.9	Pr	0.0	0	\$0.00	In Progress
2009-04	85, 109, 110, 111, 112	Laverne Heideman and Son	57.8	Pr, Pw, Sw, Mr	0.0	0	\$0.00	In Progress
2009-05	140	Laverne Heideman and Son	23.3	Pr, Pw	0.0	0	\$0.00	In Progress
<b>2009 Total</b>			<b>113.6</b>		<b>2,853.0</b>	<b>0</b>	<b>\$24,094.19</b>	
2010-01	285	Guillaume Racine	9.2	Pr, Sw, Pw	666.0	0	\$23,487.48	In Progress
2010-03	219, 220	Ottawa Cedar Lumber	29.8	Pw, Sw, Sn, Mr, Pr	0.0	0	\$0.00	In Progress
2010-04	336	Ottawa Cedar Lumber	10.2	Pw, Pr	0.0	0	\$0.00	In Progress
2010-05	37, 38, 42, 43	Produits Forestiers Startrees	29.9	Pr, Pw, Sw, Ta	0.0	0	\$0.00	In Progress
2010-06	77	Ottawa Cedar Lumber	7.1	Mr	0.0	0	\$0.00	In Progress
2010-07	77, 78	Laverne Heideman and Son	19.7	Pr, Ps	0.0	0	\$0.00	In Progress
<b>2010 Total</b>			<b>105.9</b>		<b>666.0</b>	<b>0</b>	<b>\$23,487.48</b>	
<b>Grand Total</b>			<b>730.1</b>		<b>41,089.9</b>	<b>1899</b>	<b>\$612,148.21</b>	

Table 3. Summary of renewal and tending activities that were performed during the 2005-2010 operating period.

Year	Activity	Compartment	Area (ha)	Trees Planted
2006	Manual Cleaning	141	7.2	n/a
2006	Manual Cleaning	153	4.0	n/a
2006	Manual Cleaning	156	7.5	n/a
2007	Manual Cleaning	156	9.8	n/a
2007	Manual Cleaning	199	3.9	n/a
2009	Tree Planting	138, 139	12.1	12,500
2010	Tree Planting	138	8.2	8,925
2010	Tree Planting	294, 295	5.0	11,075
2010	Tree Planting	340	1.4	3,500
2010	Manual/Chemical Cleaning	138, 139	14.0	n/a
2010	Manual/Chemical Cleaning	141	7.0	n/a
2010	Manual Chemical Cleaning	153	4.0	n/a
2010	Manual Cleaning	159	1.0	n/a
2010	Stand Improvement	138	0.6	n/a
2010	Pre-commercial Thinning & Pruning	157	0.8	n/a

## **C-2.0 FIVE YEAR OPERATING PLAN**

### **C-2.1 Management Direction**

UCPR County Forest is guided by two documents that provide direction concerning the long-term sustainability of its management; UCPR County Forest Lands – Forest Management Plan and the Protection and Development Plan of Larose Forest.

The Forest Management Plan outlines the goals and objectives for the management of the Forest. It also provides management targets and describes the tools that will be used to meet those targets (e.g. treatment options, operational prescriptions for areas of concern, etc.). Finally, it provides the means of evaluating management efforts in an effort to adapt should deficiencies be discovered.

The Protection and Development Plan of Larose Forest (PDP) focused primarily on the recreational and environmental aspects of the management of the “Main Block” of the UCPR County Forest (i.e. Larose Forest). In 2010, an update to the PDP was prepared that incorporated forest management into the document to ensure consistency and to further ensure the sustainable management of the Larose Forest.

### **C-2.2 Commercial Harvest**

#### **C-2.2.1 Annual Harvest Area**

An available harvest area (AHA) is one method of ensuring the long-term sustainability of forest management. It refers to the annual harvest level that could continue indefinitely without exceeding the productive capacity of the forest. An AHA is calculated based on assumptions made regarding the length of time required for stands to grow enough merchantable volume to support a commercial harvest (i.e. cutting cycle) and the area that could support a commercial harvest during the term of the next cutting cycle (i.e. harvest eligibility). Due to species variability and differences due to stage of management, an AHA is calculated for each forest unit and by treatment type (see Section B-2 of the Forest Management Plan for a detailed description of the forest).

The PDP update, among other things, re-evaluated the annual harvest area for Larose Forest. The updated annual harvest area calculations for Larose Forest took into account the management direction contained in both the Forest Management Plan and the updated PDP. The updated annual harvest area described in the PDP update



provides the basis for the calculations that will affect all UCPR County Forest Properties. The annual harvest area for each forest unit is summarized in Table 4. The annual harvest area for the UCPR forest represents roughly 2% of the forested land base.

### 1) Cutting Cycle and Stage of Management

Cutting cycle is a term used to describe the length of time expected between treatments for an average stand of merchantable age. The length of time between treatments varies depending on the species involved and the type of silvicultural treatments it has been and will be subjected to. Typically, plantation thinning is on a shorter cutting cycle (e.g. red pine) than single-tree selection in an upland hardwood forest or a clearcut in a poplar stand.

Two stands of the same forest unit but located on different site types, of different age and/or subjected to different natural events (e.g. ice storm, disease, etc.) or human intervention (e.g. thinning, underplanting, etc.) will likely be at different stages of management. In order to meet the objectives for the stand, each stand will need to be subjected to a unique silvicultural treatment based upon its stage of management. Every silvicultural treatment affects a stand in a different way that will ultimately affect the length of the cutting cycle. Silvicultural treatment options are described further in Section B-4.0 of the Forest Management Plan.

Cutting cycles should be evaluated periodically as more current information about the forest (species composition, stocking, diameter, etc.) becomes available and once the response to silvicultural treatments have been monitored. Forest information that has been collected since 2005 and data from the monitoring of silvicultural treatments have been used to predict the likely stage of management and to set appropriate cutting cycles.

### 2) Harvest Eligibility

Harvest eligibility is an estimate of the amount of area that is likely to support a commercial harvest operation during the next cutting cycle. Several factors impact the amount of area that is eligible for harvest.

These include:

- 1) Stands that are less than merchantable age/size,
- 2) Stands that have low stocking levels (failed plantations, ice-storm damaged stands),
- 3) Stands with operability limitations due to poor access, poor drainage, or small area of the potential treatment site,
- 4) Areas unable to support a commercially viable harvest at any age (e.g. cleared, beaver meadows, treed bogs, etc.)

- 5) Areas where forest management is excluded to meet other objectives (e.g. Protected Area, High Conservation Value Forest, Areas of Concern, etc.)

The AHA is calculated as follows:

$$\text{AHA (ha/yr)} = \frac{\text{Area of Forest Unit (ha)} \times \text{Proportion Eligible for Harvest (\%)}}{\text{Cutting Cycle (yrs)}}$$

The area provided under the title of conversion represents sites that have been described as barren and scattered in the forest inventory or as having minimal future potential from a harvesting standpoint. These sites are typically capable of growing productive forest, but for one reason or another (e.g. failed plantation, ice storm damage), the current stocking is insufficient to consider it a productive forest (i.e. <40% treed) during the term of the Forest Management Plan. These sites will be evaluated when encountered in the field to determine their feasibility in terms of conversion.

### **C-2.2.2 Intensive Management Areas**

Intensive forest management areas have been identified in the update to the Protection and Development Plan. These areas represent existing plantations or areas that could be converted to plantations that have potential to grow high value forest products over a shorter timeframe than normal when subjected to intensive plantation management. Approximately 769 ha of existing plantations were identified as being candidates for intensive forest management; 590 ha of red pine and 179 ha of white pine. No conversion sites have been identified in the PDP. Where areas selected for harvest operations overlap with candidates for intensive forest management, suitability will be confirmed to determine whether or not this is a viable option for the site. In accordance with the Forest Stewardship Council's (FSC), no more than 5% of the forested landbase (i.e. 485 ha) can be converted from natural forest to plantation and the combined area of existing and converted plantations may not exceed 10% of the forested landbase (i.e. 969 ha). For more information on what is considered plantation and on their management, consult the FSC Forest Certification Standards for the Great Lakes – St. Lawrence Region.

The PDP update also identified approximately 546 ha that may be suitable for intensive wildlife management areas. They represent areas where human intervention may improve the quality of the candidate sites from a wildlife perspective. Candidate areas typically have little merchantable material present and as a result interventions have been scheduled to occur in conjunction with a harvest operation whenever possible to reduce the cost.

Table 4. Annual harvest area for the UCPR County Forest summarized by forest unit and by stage of management for the 2011-2015 operational planning period.

Forest Unit	Treatment Type	Area (ha)	Eligibility	Cutting Cycle	Annual Harvest Area (ha)	Five Year Harvest Target (ha)
Red Pine	Thinning	1,128.8 (74%)	65%	12	61.1	305.5
	Uniform Shelterwood Regeneration and 1 <sup>st</sup> Removal Cut	376.3 (25%)	70%	20	13.2	66.0
	Possible Conversion	19.5 (1%)			n/a	
	<b>Sub-Total</b>	<b>1,524.5</b>			<b>74.3</b>	<b>371.5</b>
White Pine	Thinning	413.5 (46%)	70%	15	19.3	96.5
	Uniform Shelterwood Regeneration and 1 <sup>st</sup> Removal Cut	413.5 (46%)	75%	20	15.5	77.5
	Possible Conversion	70.4 (8%)			n/a	
	<b>Sub-Total</b>	<b>899.0</b>			<b>34.8</b>	<b>174.0</b>
White Spruce	Thinning	509.8 (20%)	25%	20	6.4	32.0
	Uniform Shelterwood Regeneration and 1 <sup>st</sup> Removal Cut	904.5 (36%)	75%	20	33.9	169.5
	Possible Conversion	1,105.4 (44%)			n/a	
	<b>Sub-Total</b>	<b>2,519.7</b>			<b>40.3</b>	<b>201.5</b>
Other Conifer (Plantation)	Thinning	77.6 (30%)	40%	20	1.6	8.0
	Uniform Shelterwood Regeneration and 1 <sup>st</sup> Removal Cut	168.0 (65%)	40%	20	3.4	17.0
	Possible Conversion	12.9 (5%)			n/a	
	<b>Sub-Total</b>	<b>258.5</b>			<b>5.0</b>	<b>25.0</b>

Forest Unit	Treatment Type	Area (ha)	Eligibility	Cutting Cycle	Annual Harvest Area (ha)	Five Year Harvest Target (ha)
Other Conifer (Natural)	Thinning	58.1 (52%)	0%	20	0.0	0.0
	Clearcut	53.3 (48%)	0%	20	0.0	0.0
	<b>Sub-Total</b>	<b>111.4</b>			<b>0.0</b>	<b>0.0</b>
Intolerant Hardwood	Clearcut	922.6 (37%)	50%	80	5.8	29.0
	Possible Conversion	1,024.8 (41%)			n/a	
	Intensive Wildlife Management Areas	546.0 (22%)	25%	20	6.8	34.0
	<b>Sub-Total</b>	<b>2,493.4</b>			<b>12.6</b>	<b>63.0</b>
Mid-Tolerant and Tolerant Hardwood	Single-Tree and Group Selection	357.9 (19%)	50%	20	8.9	44.5
	Uniform Shelterwood Regeneration and 1 <sup>st</sup> Removal Cut	1,529.2 (81%)	10%	20	7.6	38.0
	<b>Sub-Total</b>	<b>1,887.1</b>			<b>16.5</b>	<b>82.5</b>
<b>Grand Total</b>		<b>9,693.6</b>			<b>183.5</b>	<b>917.5</b>

### C-2.2.3 Carry-Over From 2005-2010 Five Year Operating Plan

One harvest area was prepared but was not ready to be put out for tender sale. A second sale was prepared and sold but was not completed within the timelines of the contract. These areas will be carried forward to the 2011-2015 period (see Appendix A). The area of these harvests will not apply toward the 2011 annual harvest area.

### C-2.2.4 Compartments Selected For Harvest Operations

In cooperation with the UCPR forest technicians, candidate harvest areas have been selected (Appendix A). Priority has been placed on plantations that have not received thinning in the past, although any area that is beyond the recommended rotation for the forest unit/stage of management combination is eligible for treatment. Operational feasibility has influenced where and when the harvest areas should be prepared and the total harvest amount by forest unit and treatment type. As a result, the area selected for operations may vary from the calculated AHA (Table 5).

Table 5. Total area selected for harvest operations summarized by harvest year, forest unit and treatment type.

Forest Unit	Treatment Type	Area (ha) by Harvest Year					Annual Harvest Area (ha)	5 Year Harvest Target (ha)	Planned 5 Year Harvest (ha)
		2011	2012	2013	2014	2015			
Red Pine (Pr)	Thinning	58.3	59.8	62.8	60.0	62.2	61.1	305.5	303.1
	Uniform Shelterwood Regeneration and 1 <sup>st</sup> Removal Cut	6.9	11.7	14.1	11.0	11.8	13.2	66.0	55.5
	<b>Sub-Total</b>	<b>65.2</b>	<b>71.5</b>	<b>76.9</b>	<b>71.0</b>	<b>74.0</b>	<b>74.3</b>	<b>371.5</b>	<b>358.6</b>
White Pine (Pw)	Thinning	28.3	16.1	15.9	25.3	25.0	19.3	96.5	110.6
	Uniform Shelterwood Regeneration and 1 <sup>st</sup> Removal Cut	13.9	17.4	19.2	3.4	14.0	15.5	77.5	67.9
	<b>Sub-Total</b>	<b>42.2</b>	<b>33.5</b>	<b>35.1</b>	<b>28.7</b>	<b>39.0</b>	<b>34.8</b>	<b>174.0</b>	<b>178.5</b>
White Spruce (Sw)	Thinning	4.2	16.3	9.5	0.8	0.0	6.4	32.0	30.8
	Uniform Shelterwood Regeneration and 1 <sup>st</sup> Removal Cut	29.9	12.8	58.8	26.7	29.6	33.9	169.5	157.8
	<b>Sub-Total</b>	<b>34.1</b>	<b>29.1</b>	<b>68.3</b>	<b>26.7</b>	<b>29.6</b>	<b>40.3</b>	<b>201.5</b>	<b>188.6</b>
Other Conifer Plantation (OC)	Thinning	2.5	0.0	3.1	0.0	0.0	1.6	8.0	5.6
	Uniform Shelterwood Regeneration and 1 <sup>st</sup> Removal Cut	0.0	0.0	0.0	5.7	2.2	3.4	17.0	7.9
	<b>Sub-Total</b>	<b>2.5</b>	<b>0.0</b>	<b>3.1</b>	<b>5.7</b>	<b>2.2</b>	<b>5.0</b>	<b>25.0</b>	<b>13.5</b>
Other Conifer (Natural OC)	Thinning	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Clearcut	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	<b>Sub-Total</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>

Forest Unit	Treatment Type	Area (ha) by Harvest Year					Annual Harvest Area (ha)	5 Year Harvest Target (ha)	Planned 5 Year Harvest (ha)
		2011	2012	2013	2014	2015			
Intolerant Hardwood (IH)	Clearcut	4.8	0.9	0.0	0.0	11.5	5.8	29.0	17.2
	Intensive Wildlife Management Areas	5.8	0.0	0.0	12.4	2.5	6.8	34.0	21.5
	<b>Sub-Total</b>	<b>10.6</b>	<b>0.9</b>	<b>0.0</b>	<b>12.4</b>	<b>14.0</b>	<b>12.6</b>	<b>63.0</b>	<b>37.9</b>
Mid-Tolerant and Tolerant Hardwood (LH and UH)	Single-Tree and Group Selection	43.5	0.0	0.0	0.0	0.0	8.9	44.5	43.5
	Uniform Shelterwood Regeneration and 1 <sup>st</sup> Removal Cut	0.0	25.4	0.0	6.2	11.7	7.6	38.0	27.3
	<b>Sub-Total</b>	<b>43.5</b>	<b>25.4</b>	<b>0.0</b>	<b>6.2</b>	<b>11.7</b>	<b>16.5</b>	<b>82.5</b>	<b>70.8</b>
<b>Total Area</b>		<b>198.1</b>	<b>160.4</b>	<b>183.4</b>	<b>151.5</b>	<b>170.5</b>	<b>183.5</b>	<b>880.5</b>	<b>864.7</b>

### **C-2.2.5 Contingency Harvest Areas**

To compensate for areas that are ultimately found not to be feasible, contingency areas have been included in this plan as additional commercial harvest options. Should these areas not be required during the term of this plan, they may be carried forward to the 2016-2020 Five Year Operating Plan. Contingency areas are described in Appendix A.

### **C-2.2.6 Salvage Harvest**

Unforeseen circumstances can lead to an unscheduled harvest operation to salvage trees before significant value is lost due to disease, insect damage, flooding or extreme weather events (e.g. wind or ice storms). It is difficult to forecast how much of this type of harvest may occur over the term of this plan since the effects of the damaging agents typically present themselves suddenly and cause rapid decline. An effort has been made to estimate the amount of salvage harvest that may occur during the term of the plan and the area eligible for harvest has been adjusted when calculating the Annual Harvest Area. If significant salvage is required, the Annual Harvest Area may require adjustment before the end of the plan term.

### **C-2.3 Renewal and Tending**

Renewal and tending operations are silvicultural treatments that are undertaken where

the revenue generated, if any, does not offset the cost of the treatment. These types of treatments may be required to meet the objectives and targets that are described in the Forest Management Plan.

Some examples of positive impacts of renewal and tending include;

- 1) reintroduction of under-represented tree species,
- 2) movement toward a pre-settlement forest condition,
- 3) the maintenance of healthy, vigorous, well-formed trees that improve the stand's resistance to disease, insect outbreaks and extreme weather events,
- 4) increased growth rates (i.e. shorter cutting cycle),
- 5) a higher proportion of high quality forest products in subsequent commercial harvests (e.g. veneer vs. sawlog vs. pulp distribution),
- 6) the establishment and/or release of adequate amounts of desirable regeneration,
- 7) the creation of opportunities to stimulate forest diversity which allow for adaptation in the face of ever-changing forest product markets.

Renewal and tending operations do not contribute toward the target harvest level since they have already been accounted for when the AHA was calculated. These stands were not considered eligible for commercial harvest and the AHA was adjusted accordingly.

### **C-2.3.1 Regeneration**

Adequate regeneration after certain harvest treatments is a priority for the County Forest and natural regeneration is the preferred option. However, there are situations where stocking of desirable regeneration is insufficient or where suitable seed sources are not available. In these cases additional silvicultural treatments may be required to meet the objectives for the site. Site preparation (mechanical and/or chemical), scarification and tree planting may be undertaken to ensure that the UCPR County Forest is sufficiently regenerated after harvesting.

Identifying specific treatments that must be applied to ensure successful establishment of desirable regeneration is difficult to do with any certainty since harvest can take many years and on-site investigation after harvest is required to determine if additional silvicultural treatments are required to ensure the successful establishment of desirable regeneration. The areas identified in this plan are those where further investigation should occur to determine what, if any, regeneration treatments will be required during the period of this plan. A total of 250.0 ha have been identified as candidate sites for scarification or site preparation and 193.5 ha have been identified as candidate sites for tree planting (Appendix C).

Throughout the period of this plan, post-harvest monitoring will be performed on areas as harvest is completed and where regeneration establishment was identified as a target in the harvest prescription to confirm where and what additional treatments will be required.

### **C-2.3.2 Manual and Chemical Tending**

Many woody and non-woody plant species (e.g. buckthorn, raspberry, ferns, etc.) compete with desirable regeneration for space, light, nutrients, etc. resulting in suppressed growth or even mortality. To ensure that desirable regeneration survives and thrives to maturity and produces a quality forest product in the future, such competition must be controlled. It is safe to assume that most sites that are treated with a uniform shelterwood regeneration harvest will require tending of some kind to ensure desirable regeneration reaches maturity. Due to numerous factors (e.g. site productivity, seed source, drainage, etc.) it is not possible to predict what type of tending treatment will be required, as well as when that treatment should be scheduled. As a result, only two years of candidate tending operations have been identified.

A total of 56.9 ha have been selected as candidates for manual and/or chemical tending during the first two years of this plan (Appendix D). Additional manual and/or chemical tending areas will be sought out during the period of the plan and will be identified as they are encountered.

### **C-2.3.3 Pre-Commercial Thinning and Stand Improvement**

In an effort to promote a healthy and productive forest, pre-commercial thinning and stand improvement treatments may be prescribed. Pre-commercial thinning treatments are performed on even-aged stands, usually young conifer, to release the dominant and co-dominant trees from lateral competition thus allowing them to grow faster. Stand improvement treatments are performed on uneven-aged stands, usually young tolerant hardwoods, focusing on the removal of defective stems (e.g. disease, insect, mechanical damage, etc.) to improve the health of the residual stand and to improve growth rates.

Although these types of treatments do not typically generate enough revenue to offset the initial cost of the treatment, the improvements to the future value and the shorter time it takes to obtain that value make these treatments viable options.

An annual target of 15.5 ha has been set for stand improvement using the same calculation that was used to determine the annual harvest area. There are not enough areas eligible for pre-commercial thinning to warrant setting an annual target.

A total of 5.5 ha have been selected as candidate sites for pre-commercial thinning and 75.9 ha (average of 15.1 ha/yr) stand improvement treatments during the 5 year period of this plan (Appendix D).



**Appendix A – Compartments Selected  
For Harvest Operations For The 2011-  
2015 Operating Period**

## Areas Carried Forward From the 2005-2010 Five Year Operating Plan

### Compartment 78

Sub-Compartment	Forest Unit	Age in 2011	Stand Area (ha)	Potential Intensive Management Areas		Treatment Type				
				Forest Management (ha)	Wildlife Management (ha)	Thinning	Uniform Shelterwood	Single-Tree or Group Selection	Clearcut	Total Harvest Area
b	Pr	75	40.0	40.0	0.0	40.0	0.0	0.0	0.0	40.0

### Compartment 79

Sub-Compartment	Forest Unit	Age in 2011	Stand Area (ha)	Potential Intensive Management Areas		Treatment Type				
				Forest Management (ha)	Wildlife Management (ha)	Thinning	Uniform Shelterwood	Single-Tree or Group Selection	Clearcut	Total Harvest Area
b	Pr	67	16.3	0.0	0.0	9.9	0.0	0.0	0.0	9.9

# Areas Selected For Operations – 2011 Operating Year

## Compartment 79

Sub-Compartment	Forest Unit	Age in 2011	Stand Area (ha)	Potential Intensive Management Areas		Treatment Type				
				Forest Management (ha)	Wildlife Management (ha)	Thinning	Uniform Shelterwood	Single-Tree or Group Selection	Clearcut	Total Harvest Area
a	Sw	66	16.6	0.0	0.0	0.0	11.7	0.0	0.0	11.7

## Compartment 80

Sub-Compartment	Forest Unit	Age in 2011	Stand Area (ha)	Potential Intensive Management Areas		Treatment Type				
				Forest Management (ha)	Wildlife Management (ha)	Thinning	Uniform Shelterwood	Single-Tree or Group Selection	Clearcut	Total Harvest Area
a	Pr	65	11.1	0.0	0.0	11.1	0.0	0.0	0.0	11.1
b	Sw	66	21.9	0.0	0.0	0.0	4.9	0.0	0.0	4.9

## Compartment 81

Sub-Compartment	Forest Unit	Age in 2011	Stand Area (ha)	Potential Intensive Management Areas		Treatment Type				
				Forest Management (ha)	Wildlife Management (ha)	Thinning	Uniform Shelterwood	Single-Tree or Group Selection	Clearcut	Total Harvest Area
b	Pr	67	4.2	0.0	0.0	4.2	0.0	0.0	0.0	4.2
d	Pr	62	5.4	0.0	0.0	5.4	0.0	0.0	0.0	5.4
f	Sw	66	9.2	0.0	0.0	0.0	7.2	0.0	0.0	7.2

## Compartment 98

Sub-Compartment	Forest Unit	Age in 2011	Stand Area (ha)	Potential Intensive Management Areas		Treatment Type				
				Forest Management (ha)	Wildlife Management (ha)	Thinning	Uniform Shelterwood	Single-Tree or Group Selection	Clearcut	Total Harvest Area
a	UH	70	0.9	0.0	0.0	0.0	0.0	0.9	0.0	0.9
b	UH	78	11.6	0.0	0.0	0.0	0.0	11.6	0.0	11.6
c	UH	77	11.0	0.0	0.0	0.0	0.0	11.0	0.0	11.0

## Areas Selected For Operations – 2011 Operating Year

### Compartment 99

Sub-Compartment	Forest Unit	Age in 2011	Stand Area (ha)	Potential Intensive Management Areas		Treatment Type				
				Forest Management (ha)	Wildlife Management (ha)	Thinning	Uniform Shelterwood	Single-Tree or Group Selection	Clearcut	Total Harvest Area
a	UH	78	14.8	0.0	0.0	0.0	0.0	14.8	0.0	14.8
b	UH	70	1.4	0.0	0.0	0.0	0.0	1.4	0.0	1.4
c	UH	77	3.8	0.0	0.0	0.0	0.0	3.8	0.0	3.8
d	UH	74	5.4	0.0	0.0	0.0	0.0	5.4	0.0	5.4

### Compartment 100

Sub-Compartment	Forest Unit	Age in 2011	Stand Area (ha)	Potential Intensive Management Areas		Treatment Type				
				Forest Management (ha)	Wildlife Management (ha)	Thinning	Uniform Shelterwood	Single-Tree or Group Selection	Clearcut	Total Harvest Area
a	Sw	51	4.0	0.0	0.0	0.0	4.0	0.0	0.0	4.0
b	Pw	51	3.0	0.0	0.0	0.0	3.0	0.0	0.0	3.0
d	Pr	51	2.0	0.0	0.0	1.0	0.0	0.0	0.0	1.0

### Compartment 103

Sub-Compartment	Forest Unit	Age in 2011	Stand Area (ha)	Potential Intensive Management Areas		Treatment Type				
				Forest Management (ha)	Wildlife Management (ha)	Thinning	Uniform Shelterwood	Single-Tree or Group Selection	Clearcut	Total Harvest Area
a	Pr	56	4.2	0.0	0.0	0.0	4.2	0.0	0.0	4.2
b	Pw	62	9.4	8.0	0.0	0.0	9.4	0.0	0.0	9.4
c	Sw	52	1.8	0.0	0.0	0.9	0.0	0.0	0.0	0.9

### Compartment 134

Sub-Compartment	Forest Unit	Age in 2011	Stand Area (ha)	Potential Intensive Management Areas		Treatment Type				
				Forest Management (ha)	Wildlife Management (ha)	Thinning	Uniform Shelterwood	Single-Tree or Group Selection	Clearcut	Total Harvest Area
a	Pr	62	12.6	12.6	0.0	9.9	2.7	0.0	0.0	12.6

# Areas Selected For Operations – 2011 Operating Year

## Compartment 135

Sub-Compartment	Forest Unit	Age in 2011	Stand Area (ha)	Potential Intensive Management Areas		Treatment Type				
				Forest Management (ha)	Wildlife Management (ha)	Thinning	Uniform Shelterwood	Single-Tree or Group Selection	Clearcut	Total Harvest Area
e	Pr	52	5.9	0.0	0.2	5.7	0.0	0.0	0.0	5.7
f	Sw	52	5.2	0.0	5.2	0.0	0.0	0.0	1.3	1.3
g	Sw	52	2.8	0.0	0.0	2.8	0.0	0.0	0.0	2.8
j	Sw	61	4.9	0.0	0.0	0.0	4.9	0.0	0.0	4.9

## Compartment 136

Sub-Compartment	Forest Unit	Age in 2011	Stand Area (ha)	Potential Intensive Management Areas		Treatment Type				
				Forest Management (ha)	Wildlife Management (ha)	Thinning	Uniform Shelterwood	Single-Tree or Group Selection	Clearcut	Total Harvest Area
a	Pr	55	6.2	5.2	0.6	5.2	0.0	0.0	0.0	5.2
b	IH	73	14.1	0.0	7.6	0.0	0.0	0.0	1.9	1.9
c	Pr	49	8.3	0.0	0.0	3.8	0.0	0.0	0.0	3.8
f	Sw	49	4.3	0.0	0.0	0.5	1.2	0.0	0.0	1.7
h	Pr	55	6.3	6.3	0.0	5.0	0.0	0.0	0.0	5.0

## Compartment 137

Sub-Compartment	Forest Unit	Age in 2011	Stand Area (ha)	Potential Intensive Management Areas		Treatment Type				
				Forest Management (ha)	Wildlife Management (ha)	Thinning	Uniform Shelterwood	Single-Tree or Group Selection	Clearcut	Total Harvest Area
b	IH	55	10.8	0.0	10.8	0.0	0.0	0.0	2.7	2.7
d	IH	71	4.5	0.0	0.0	0.0	0.0	0.0	4.5	4.5

## Compartment 160

Sub-Compartment	Forest Unit	Age in 2011	Stand Area (ha)	Potential Intensive Management Areas		Treatment Type				
				Forest Management (ha)	Wildlife Management (ha)	Thinning	Uniform Shelterwood	Single-Tree or Group Selection	Clearcut	Total Harvest Area
c	Pw	63	28.3	28.3	0.0	28.3	0.0	0.0	0.0	28.3

# Areas Selected For Operations – 2011 Operating Year

## Compartment 161

Sub-Compartment	Forest Unit	Age in 2011	Stand Area (ha)	Potential Intensive Management Areas		Treatment Type				
				Forest Management (ha)	Wildlife Management (ha)	Thinning	Uniform Shelterwood	Single-Tree or Group Selection	Clearcut	Total Harvest Area
b	OC	63	3.3	0.0	0.0	1.4	0.0	0.0	0.0	1.4
d	Pr	61	7.0	0.0	0.0	7.0	0.0	0.0	0.0	7.0

## Compartment 326

Sub-Compartment	Forest Unit	Age in 2011	Stand Area (ha)	Potential Intensive Management Areas		Treatment Type				
				Forest Management (ha)	Wildlife Management (ha)	Thinning	Uniform Shelterwood	Single-Tree or Group Selection	Clearcut	Total Harvest Area
a	Pw	51	2.3	0.0	0.0	0.0	2.3	0.0	0.0	2.3

## Compartment 333

Sub-Compartment	Forest Unit	Age in 2011	Stand Area (ha)	Potential Intensive Management Areas		Treatment Type				
				Forest Management (ha)	Wildlife Management (ha)	Thinning	Uniform Shelterwood	Single-Tree or Group Selection	Clearcut	Total Harvest Area
a	Pw	51	4.5	4.5	0.0	0.0	4.5	0.0	0.0	4.5
e	OC	45	1.1	0.0	0.0	1.1	0.0	0.0	0.0	1.1

# Areas Selected For Operations – 2012 Operating Year

## Compartment 18

Sub-Compartment	Forest Unit	Age in 2011	Stand Area (ha)	Potential Intensive Management Areas		Treatment Type				
				Forest Management (ha)	Wildlife Management (ha)	Thinning	Uniform Shelterwood	Single-Tree or Group Selection	Clearcut	Total Harvest Area
a	UH	77	14.6	0.0	0.0	0.0	14.6	0.0	0.0	14.6
b	Pr	51	3.4	0.0	0.0	0.0	3.4	0.0	0.0	3.4

## Compartment 19

Sub-Compartment	Forest Unit	Age in 2011	Stand Area (ha)	Potential Intensive Management Areas		Treatment Type				
				Forest Management (ha)	Wildlife Management (ha)	Thinning	Uniform Shelterwood	Single-Tree or Group Selection	Clearcut	Total Harvest Area
b	LH	77	10.8	0.0	0.0	0.0	10.8	0.0	0.0	10.8
c	Pr	52	6.0	0.0	0.0	0.0	6.0	0.0	0.0	6.0

## Compartment 20

Sub-Compartment	Forest Unit	Age in 2011	Stand Area (ha)	Potential Intensive Management Areas		Treatment Type				
				Forest Management (ha)	Wildlife Management (ha)	Thinning	Uniform Shelterwood	Single-Tree or Group Selection	Clearcut	Total Harvest Area
b	Pr	58	2.7	0.0	0.0	2.7	0.0	0.0	0.0	2.7
c	Pw	58	2.0	0.0	0.0	0.0	2.0	0.0	0.0	2.0
d	Pw	58	6.7	0.0	0.0	0.0	6.7	0.0	0.0	6.7

## Compartment 21

Sub-Compartment	Forest Unit	Age in 2011	Stand Area (ha)	Potential Intensive Management Areas		Treatment Type				
				Forest Management (ha)	Wildlife Management (ha)	Thinning	Uniform Shelterwood	Single-Tree or Group Selection	Clearcut	Total Harvest Area
a	Pw	58	4.3	0.0	0.0	4.3	0.0	0.0	0.0	4.3
c	Sw	58	2.1	0.0	0.0	2.1	0.0	0.0	0.0	2.1
d	Pw	58	0.8	0.0	0.0	0.2	0.0	0.0	0.0	0.2
e	Sw	B-S	1.4	0.0	0.0	0.0	1.4	0.0	0.0	1.4

# Areas Selected For Operations – 2012 Operating Year

## Compartment 22

Sub-Compartment	Forest Unit	Age in 2011	Stand Area (ha)	Potential Intensive Management Areas		Treatment Type				
				Forest Management (ha)	Wildlife Management (ha)	Thinning	Uniform Shelterwood	Single-Tree or Group Selection	Clearcut	Total Harvest Area
c	Pr	59	0.3	0.0	0.0	0.3	0.0	0.0	0.0	0.3

## Compartment 24

Sub-Compartment	Forest Unit	Age in 2011	Stand Area (ha)	Potential Intensive Management Areas		Treatment Type				
				Forest Management (ha)	Wildlife Management (ha)	Thinning	Uniform Shelterwood	Single-Tree or Group Selection	Clearcut	Total Harvest Area
c	Pr	61	3.7	0.0	0.0	2.6	0.0	0.0	0.0	2.6

## Compartment 30

Sub-Compartment	Forest Unit	Age in 2011	Stand Area (ha)	Potential Intensive Management Areas		Treatment Type				
				Forest Management (ha)	Wildlife Management (ha)	Thinning	Uniform Shelterwood	Single-Tree or Group Selection	Clearcut	Total Harvest Area
b	Sw	59	5.1	0.0	0.0	3.5	0.0	0.0	0.0	3.5
d	Pw	59	4.5	0.0	0.0	4.5	0.0	0.0	0.0	4.5
e	Pr	59	2.6	0.0	0.0	2.6	0.0	0.0	0.0	2.6
g	UH	81	4.2	0.0	0.0	0.0	4.2	0.0	0.0	4.2

## Compartment 40

Sub-Compartment	Forest Unit	Age in 2011	Stand Area (ha)	Potential Intensive Management Areas		Treatment Type				
				Forest Management (ha)	Wildlife Management (ha)	Thinning	Uniform Shelterwood	Single-Tree or Group Selection	Clearcut	Total Harvest Area
c	Pr	51	2.8	0.0	0.0	2.6	0.0	0.0	0.0	2.6
e	Pw	B-S	2.4	0.0	0.0	2.1	0.0	0.0	0.0	2.1



# Areas Selected For Operations – 2012 Operating Year

## Compartment 44

Sub-Compartment	Forest Unit	Age in 2011	Stand Area (ha)	Potential Intensive Management Areas		Treatment Type				
				Forest Management (ha)	Wildlife Management (ha)	Thinning	Uniform Shelterwood	Single-Tree or Group Selection	Clearcut	Total Harvest Area
a	Pw	54	5.5	0.0	0.0	0.0	5.5	0.0	0.0	5.5
b	Pr	54	2.0	0.0	0.0	2.0	0.0	0.0	0.0	2.0

## Compartment 45

Sub-Compartment	Forest Unit	Age in 2011	Stand Area (ha)	Potential Intensive Management Areas		Treatment Type				
				Forest Management (ha)	Wildlife Management (ha)	Thinning	Uniform Shelterwood	Single-Tree or Group Selection	Clearcut	Total Harvest Area
b	Pw	52	5.0	0.0	0.0	5.0	0.0	0.0	0.0	5.5
d	Sw	52	4.7	0.0	0.0	4.7	0.0	0.0	0.0	2.0

## Compartment 64

Sub-Compartment	Forest Unit	Age in 2011	Stand Area (ha)	Potential Intensive Management Areas		Treatment Type				
				Forest Management (ha)	Wildlife Management (ha)	Thinning	Uniform Shelterwood	Single-Tree or Group Selection	Clearcut	Total Harvest Area
a	Pr	67	7.8	0.0	0.0	5.5	0.0	0.0	0.0	5.5
i	Pr	52	0.5	0.0	0.0	0.5	0.0	0.0	0.0	0.5

## Compartment 83

Sub-Compartment	Forest Unit	Age in 2011	Stand Area (ha)	Potential Intensive Management Areas		Treatment Type				
				Forest Management (ha)	Wildlife Management (ha)	Thinning	Uniform Shelterwood	Single-Tree or Group Selection	Clearcut	Total Harvest Area
b	Pw	67	12.1	0.0	0.0	0.0	3.2	0.0	0.0	3.2
d	Pr	67	18.6	0.0	0.0	7.7	0.0	0.0	0.0	7.7

## Compartment 107

Sub-Compartment	Forest Unit	Age in 2011	Stand Area (ha)	Potential Intensive Management Areas		Treatment Type				
				Forest Management (ha)	Wildlife Management (ha)	Thinning	Uniform Shelterwood	Single-Tree or Group Selection	Clearcut	Total Harvest Area
f	Pr	67	2.8	0.0	0.0	2.8	0.0	0.0	0.0	2.8

# Areas Selected For Operations – 2012 Operating Year

## Compartment 317

Sub-Compartment	Forest Unit	Age in 2011	Stand Area (ha)	Potential Intensive Management Areas		Treatment Type				
				Forest Management (ha)	Wildlife Management (ha)	Thinning	Uniform Shelterwood	Single-Tree or Group Selection	Clearcut	Total Harvest Area
b	Sw	51	2.2	0.0	0.0	2.2	0.0	0.0	0.0	2.2
c	Sw	51	3.8	0.0	0.0	3.8	0.0	0.0	0.0	3.8
d	Pr	51	1.7	0.0	0.0	1.4	0.0	0.0	0.0	1.4

## Compartment 318

Sub-Compartment	Forest Unit	Age in 2011	Stand Area (ha)	Potential Intensive Management Areas		Treatment Type				
				Forest Management (ha)	Wildlife Management (ha)	Thinning	Uniform Shelterwood	Single-Tree or Group Selection	Clearcut	Total Harvest Area
a	Sw	51	9.6	0.0	0.0	0.0	9.6	0.0	0.0	9.6
b	Pr	51	4.0	0.0	0.0	0.0	2.0	0.0	0.0	2.0

## Compartment 319

Sub-Compartment	Forest Unit	Age in 2011	Stand Area (ha)	Potential Intensive Management Areas		Treatment Type				
				Forest Management (ha)	Wildlife Management (ha)	Thinning	Uniform Shelterwood	Single-Tree or Group Selection	Clearcut	Total Harvest Area
b	Sw	51	3.2	0.0	0.0	0.0	3.2	0.0	0.0	3.2
c	Pr	51	0.6	0.0	0.0	0.0	0.3	0.0	0.0	0.3

## Compartment 334

Sub-Compartment	Forest Unit	Age in 2011	Stand Area (ha)	Potential Intensive Management Areas		Treatment Type				
				Forest Management (ha)	Wildlife Management (ha)	Thinning	Uniform Shelterwood	Single-Tree or Group Selection	Clearcut	Total Harvest Area
a	Pr	74	11.8	0.0	0.0	11.8	0.0	0.0	0.0	11.8
e	IH	67	0.9	0.0	0.0	0.0	0.0	0.0	0.9	0.9

# Areas Selected For Operations – 2012 Operating Year

## Compartment 335

Sub-Compartment	Forest Unit	Age in 2011	Stand Area (ha)	Potential Intensive Management Areas		Treatment Type				
				Forest Management (ha)	Wildlife Management (ha)	Thinning	Uniform Shelterwood	Single-Tree or Group Selection	Clearcut	Total Harvest Area
c	Pr	74	9.3	0.0	0.0	9.3	0.0	0.0	0.0	9.3
e	Pr	74	3.4	0.0	0.0	2.1	0.0	0.0	0.0	2.1

## Compartment 349

Sub-Compartment	Forest Unit	Age in 2011	Stand Area (ha)	Potential Intensive Management Areas		Treatment Type				
				Forest Management (ha)	Wildlife Management (ha)	Thinning	Uniform Shelterwood	Single-Tree or Group Selection	Clearcut	Total Harvest Area
a	LH	78	11.4	0.0	0.0	0.0	11.4	0.0	0.0	11.4
b	OC	45	7.4	0.0	0.0	2.2	5.2	0.0	0.0	7.4

## Compartment 356

Sub-Compartment	Forest Unit	Age in 2011	Stand Area (ha)	Potential Intensive Management Areas		Treatment Type				
				Forest Management (ha)	Wildlife Management (ha)	Thinning	Uniform Shelterwood	Single-Tree or Group Selection	Clearcut	Total Harvest Area
a	Pr	74	1.2	0.0	0.0	1.2	0.0	0.0	0.0	1.2

## Compartment 361

Sub-Compartment	Forest Unit	Age in 2011	Stand Area (ha)	Potential Intensive Management Areas		Treatment Type				
				Forest Management (ha)	Wildlife Management (ha)	Thinning	Uniform Shelterwood	Single-Tree or Group Selection	Clearcut	Total Harvest Area
a	Pr	44	3.5	0.0	0.0	3.5	0.0	0.0	0.0	3.5

## Compartment 365

Sub-Compartment	Forest Unit	Age in 2011	Stand Area (ha)	Potential Intensive Management Areas		Treatment Type				
				Forest Management (ha)	Wildlife Management (ha)	Thinning	Uniform Shelterwood	Single-Tree or Group Selection	Clearcut	Total Harvest Area
a	Pr	41	2.8	0.0	0.0	1.2	0.0	0.0	0.0	1.2

# Areas Selected For Operations – 2013 Operating Year

## Compartment 157

Sub-Compartment	Forest Unit	Age in 2011	Stand Area (ha)	Potential Intensive Management Areas		Treatment Type				
				Forest Management (ha)	Wildlife Management (ha)	Thinning	Uniform Shelterwood	Single-Tree or Group Selection	Clearcut	Total Harvest Area
b	Pw	56	9.0	7.4	0.0	0.0	9.0	0.0	0.0	9.0
c	Pr	56	23.0	23.0	0.0	21.8	0.0	0.0	0.0	21.8
d	Pr	56	7.3	7.3	0.0	7.3	0.0	0.0	0.0	7.3

## Compartment 179

Sub-Compartment	Forest Unit	Age in 2011	Stand Area (ha)	Potential Intensive Management Areas		Treatment Type				
				Forest Management (ha)	Wildlife Management (ha)	Thinning	Uniform Shelterwood	Single-Tree or Group Selection	Clearcut	Total Harvest Area
a	Pr	60	17.5	17.5	0.0	17.5	0.0	0.0	0.0	17.5
c	Pr	60	3.5	0.0	0.0	0.0	3.5	0.0	0.0	3.5
f	Pw	60	4.0	0.0	0.0	4.0	0.0	0.0	0.0	4.0

## Compartment 180

Sub-Compartment	Forest Unit	Age in 2011	Stand Area (ha)	Potential Intensive Management Areas		Treatment Type				
				Forest Management (ha)	Wildlife Management (ha)	Thinning	Uniform Shelterwood	Single-Tree or Group Selection	Clearcut	Total Harvest Area
b	Pr	58	15.9	15.9	0.0	15.9	0.0	0.0	0.0	15.9
c	Pr	58	0.7	0.0	0.0	0.7	0.0	0.0	0.0	0.7

## Compartment 200

Sub-Compartment	Forest Unit	Age in 2011	Stand Area (ha)	Potential Intensive Management Areas		Treatment Type				
				Forest Management (ha)	Wildlife Management (ha)	Thinning	Uniform Shelterwood	Single-Tree or Group Selection	Clearcut	Total Harvest Area
a	Sw	57	5.2	0.0	0.0	0.0	5.2	0.0	0.0	5.2
c	Pr	57	4.3	0.0	0.0	4.3	0.0	0.0	0.0	4.3
d	Sw	57	9.5	0.0	0.0	9.5	0.0	0.0	0.0	9.5

# Areas Selected For Operations – 2013 Operating Year

## Compartment 227

Sub-Compartment	Forest Unit	Age in 2011	Stand Area (ha)	Potential Intensive Management Areas		Treatment Type				
				Forest Management (ha)	Wildlife Management (ha)	Thinning	Uniform Shelterwood	Single-Tree or Group Selection	Clearcut	Total Harvest Area
f	Sw	46	6.4	0.0	0.0	0.0	2.1	0.0	0.0	2.1
g	Sw	61	2.2	0.0	0.0	0.0	1.6	0.0	0.0	1.6

## Compartment 228

Sub-Compartment	Forest Unit	Age in 2011	Stand Area (ha)	Potential Intensive Management Areas		Treatment Type				
				Forest Management (ha)	Wildlife Management (ha)	Thinning	Uniform Shelterwood	Single-Tree or Group Selection	Clearcut	Total Harvest Area
f	Sw	61	3.8	0.0	0.0	0.0	1.9	0.0	0.0	1.9

## Compartment 244

Sub-Compartment	Forest Unit	Age in 2011	Stand Area (ha)	Potential Intensive Management Areas		Treatment Type				
				Forest Management (ha)	Wildlife Management (ha)	Thinning	Uniform Shelterwood	Single-Tree or Group Selection	Clearcut	Total Harvest Area
a	Sw	61	11.3	0.0	0.0	0.0	11.3	0.0	0.0	11.3
b	Sw	46	5.5	0.0	0.0	0.0	5.5	0.0	0.0	5.5
d	OC	54	3.1	0.0	0.0	3.1	0.0	0.0	0.0	3.1

## Compartment 245

Sub-Compartment	Forest Unit	Age in 2011	Stand Area (ha)	Potential Intensive Management Areas		Treatment Type				
				Forest Management (ha)	Wildlife Management (ha)	Thinning	Uniform Shelterwood	Single-Tree or Group Selection	Clearcut	Total Harvest Area
a	Sw	61	29.1	0.0	0.0	0.0	29.1	0.0	0.0	29.1

# Areas Selected For Operations – 2013 Operating Year

## Compartment 246

Sub-Compartment	Forest Unit	Age in 2011	Stand Area (ha)	Potential Intensive Management Areas		Treatment Type				
				Forest Management (ha)	Wildlife Management (ha)	Thinning	Uniform Shelterwood	Single-Tree or Group Selection	Clearcut	Total Harvest Area
b	Pr	57	1.2	0.0	0.0	1.2	0.0	0.0	0.0	1.2
c	Pr	58	4.7	0.0	0.0	4.7	0.0	0.0	0.0	4.7
d	Pw	66	1.1	0.0	0.0	1.1	0.0	0.0	0.0	1.1
e	Pw	58	8.3	0.0	0.0	0.0	8.3	0.0	0.0	8.3
g	Pw	57	9.4	0.0	0.0	9.4	0.0	0.0	0.0	9.4
h	Pw	51	1.9	0.0	0.0	0.0	1.9	0.0	0.0	1.9
k	Pw	51	1.4	0.0	0.0	1.4	0.0	0.0	0.0	1.4

# Areas Selected For Operations – 2014 Operating Year

## Compartment 171

Sub-Compartment	Forest Unit	Age in 2011	Stand Area (ha)	Potential Intensive Management Areas		Treatment Type				
				Forest Management (ha)	Wildlife Management (ha)	Thinning	Uniform Shelterwood	Single-Tree or Group Selection	Clearcut	Total Harvest Area
f	Pr	48	1.6	0.0	0.0	1.6	0.0	0.0	0.0	1.6

## Compartment 193

Sub-Compartment	Forest Unit	Age in 2011	Stand Area (ha)	Potential Intensive Management Areas		Treatment Type				
				Forest Management (ha)	Wildlife Management (ha)	Thinning	Uniform Shelterwood	Single-Tree or Group Selection	Clearcut	Total Harvest Area
a	Pr	61	4.4	0.0	0.0	4.4	0.0	0.0	0.0	4.4

## Compartment 204

Sub-Compartment	Forest Unit	Age in 2011	Stand Area (ha)	Potential Intensive Management Areas		Treatment Type				
				Forest Management (ha)	Wildlife Management (ha)	Thinning	Uniform Shelterwood	Single-Tree or Group Selection	Clearcut	Total Harvest Area
d	OC	60	7.9	0.0	0.0	0.0	5.7	0.0	0.0	5.7
f	Pr	60	3.8	0.0	0.0	0.0	3.8	0.0	0.0	3.8
h	Pr	63	2.9	0.0	0.0	0.0	2.9	0.0	0.0	2.9
i	Pw	59	10.7	0.0	0.0	10.7	0.0	0.0	0.0	10.7

## Compartment 205

Sub-Compartment	Forest Unit	Age in 2011	Stand Area (ha)	Potential Intensive Management Areas		Treatment Type				
				Forest Management (ha)	Wildlife Management (ha)	Thinning	Uniform Shelterwood	Single-Tree or Group Selection	Clearcut	Total Harvest Area
a	IH	66	14.4	0.0	14.4	0.0	0.0	0.0	3.6	3.6
f	Pr	61	6.2	0.0	0.0	6.2	0.0	0.0	0.0	6.2

## Compartment 206

Sub-Compartment	Forest Unit	Age in 2011	Stand Area (ha)	Potential Intensive Management Areas		Treatment Type				
				Forest Management (ha)	Wildlife Management (ha)	Thinning	Uniform Shelterwood	Single-Tree or Group Selection	Clearcut	Total Harvest Area
b	IH	B&S	25.8	0.0	8.8	0.0	0.0	0.0	2.2	2.2

# Areas Selected For Operations – 2014 Operating Year

## Compartment 207

Sub-Compartment	Forest Unit	Age in 2011	Stand Area (ha)	Potential Intensive Management Areas		Treatment Type				
				Forest Management (ha)	Wildlife Management (ha)	Thinning	Uniform Shelterwood	Single-Tree or Group Selection	Clearcut	Total Harvest Area
a	IH	67	27.3	0.0	21.2	0.0	0.0	0.0	5.3	5.3

## Compartment 208

Sub-Compartment	Forest Unit	Age in 2011	Stand Area (ha)	Potential Intensive Management Areas		Treatment Type				
				Forest Management (ha)	Wildlife Management (ha)	Thinning	Uniform Shelterwood	Single-Tree or Group Selection	Clearcut	Total Harvest Area
a	IH	66	33.7	0.0	5.0	0.0	0.0	0.0	1.3	1.3
d	Pr	48	2.6	0.0	0.0	1.1	0.0	0.0	0.0	1.1

## Compartment 209

Sub-Compartment	Forest Unit	Age in 2011	Stand Area (ha)	Potential Intensive Management Areas		Treatment Type				
				Forest Management (ha)	Wildlife Management (ha)	Thinning	Uniform Shelterwood	Single-Tree or Group Selection	Clearcut	Total Harvest Area
a	Pr	54	15.0	15.0	0.0	15.0	0.0	0.0	0.0	15.0
b	Sw	54	7.0	0.0	0.0	0.0	7.0	0.0	0.0	7.0

## Compartment 210

Sub-Compartment	Forest Unit	Age in 2011	Stand Area (ha)	Potential Intensive Management Areas		Treatment Type				
				Forest Management (ha)	Wildlife Management (ha)	Thinning	Uniform Shelterwood	Single-Tree or Group Selection	Clearcut	Total Harvest Area
b	Pr	54	3.5	3.5	0.0	3.5	0.0	0.0	0.0	3.5
c	Pr	54	2.0	2.0	0.0	2.0	0.0	0.0	0.0	2.0

## Compartment 227

Sub-Compartment	Forest Unit	Age in 2011	Stand Area (ha)	Potential Intensive Management Areas		Treatment Type				
				Forest Management (ha)	Wildlife Management (ha)	Thinning	Uniform Shelterwood	Single-Tree or Group Selection	Clearcut	Total Harvest Area
f	Sw	46	6.4	0.0	0.0	0.0	2.1	0.0	0.0	2.1



## Areas Selected For Operations – 2014 Operating Year

### Compartment 228

Sub-Compartment	Forest Unit	Age in 2011	Stand Area (ha)	Potential Intensive Management Areas		Treatment Type				
				Forest Management (ha)	Wildlife Management (ha)	Thinning	Uniform Shelterwood	Single-Tree or Group Selection	Clearcut	Total Harvest Area
a	Pw	56	3.4	0.0	0.0	0.0	3.4	0.0	0.0	3.4
c	Sw	61	13.9	0.0	0.0	0.0	13.9	0.0	0.0	13.9

### Compartment 229

Sub-Compartment	Forest Unit	Age in 2011	Stand Area (ha)	Potential Intensive Management Areas		Treatment Type				
				Forest Management (ha)	Wildlife Management (ha)	Thinning	Uniform Shelterwood	Single-Tree or Group Selection	Clearcut	Total Harvest Area
d	Sw	58	3.7	0.0	0.0	0.0	3.7	0.0	0.0	3.7
f	Pr	58	4.7	0.0	0.0	4.7	0.0	0.0	0.0	4.7
h	Pr	58	5.3	0.0	0.0	5.3	0.0	0.0	0.0	5.3
i	Pr	58	4.3	0.0	0.0	0.0	4.3	0.0	0.0	4.3

### Compartment 230

Sub-Compartment	Forest Unit	Age in 2011	Stand Area (ha)	Potential Intensive Management Areas		Treatment Type				
				Forest Management (ha)	Wildlife Management (ha)	Thinning	Uniform Shelterwood	Single-Tree or Group Selection	Clearcut	Total Harvest Area
a	Sw	45	0.8	0.0	0.0	0.8	0.0	0.0	0.0	0.8
c	Pr	61	15.2	12.3	0.0	15.2	0.0	0.0	0.0	15.2
d	Pw	61	15.9	15.9	0.0	14.6	0.0	0.0	0.0	14.6
e	UH	71	7.7	0.0	0.0	0.0	6.2	0.0	0.0	6.2

### Compartment 374

Sub-Compartment	Forest Unit	Age in 2011	Stand Area (ha)	Potential Intensive Management Areas		Treatment Type				
				Forest Management (ha)	Wildlife Management (ha)	Thinning	Uniform Shelterwood	Single-Tree or Group Selection	Clearcut	Total Harvest Area
d	Pr	37	5.8	0.0	0.0	1.0	0.0	0.0	0.0	1.0

## Areas Selected For Operations – 2015 Operating Year

### Compartment 162

Sub-Compartment	Forest Unit	Age in 2011	Stand Area (ha)	Potential Intensive Management Areas		Treatment Type				
				Forest Management (ha)	Wildlife Management (ha)	Thinning	Uniform Shelterwood	Single-Tree or Group Selection	Clearcut	Total Harvest Area
a	Sw	64	36.6	0.0	0.0	0.0	29.6	0.0	0.0	29.6
b	Pr	64	15.9	0.0	0.0	5.4	7.1	0.0	0.0	12.5

### Compartment 183

Sub-Compartment	Forest Unit	Age in 2011	Stand Area (ha)	Potential Intensive Management Areas		Treatment Type				
				Forest Management (ha)	Wildlife Management (ha)	Thinning	Uniform Shelterwood	Single-Tree or Group Selection	Clearcut	Total Harvest Area
a	Pr	70	2.5	0.0	0.0	0.0	2.5	0.0	0.0	2.5
c	Pw	70	6.2	0.0	0.0	0.0	6.2	0.0	0.0	6.2
d	Pw	70	1.8	0.0	0.0	0.0	1.8	0.0	0.0	1.8

### Compartment 184

Sub-Compartment	Forest Unit	Age in 2011	Stand Area (ha)	Potential Intensive Management Areas		Treatment Type				
				Forest Management (ha)	Wildlife Management (ha)	Thinning	Uniform Shelterwood	Single-Tree or Group Selection	Clearcut	Total Harvest Area
c	Pr	60	9.3	0.0	0.0	0.0	9.3	0.0	0.0	9.3
f	Pw	63	6.0	0.0	0.0	0.0	6.0	0.0	0.0	6.0

### Compartment 185

Sub-Compartment	Forest Unit	Age in 2011	Stand Area (ha)	Potential Intensive Management Areas		Treatment Type				
				Forest Management (ha)	Wildlife Management (ha)	Thinning	Uniform Shelterwood	Single-Tree or Group Selection	Clearcut	Total Harvest Area
h	UH	71	8.8	0.0	0.0	0.0	8.8	0.0	0.0	8.8

# Areas Selected For Operations – 2015 Operating Year

## Compartment 201

Sub-Compartment	Forest Unit	Age in 2011	Stand Area (ha)	Potential Intensive Management Areas		Treatment Type				
				Forest Management (ha)	Wildlife Management (ha)	Thinning	Uniform Shelterwood	Single-Tree or Group Selection	Clearcut	Total Harvest Area
b	UH	65	6.3	0.0	0.0	0.0	6.3	0.0	0.0	6.3

## Compartment 202

Sub-Compartment	Forest Unit	Age in 2011	Stand Area (ha)	Potential Intensive Management Areas		Treatment Type				
				Forest Management (ha)	Wildlife Management (ha)	Thinning	Uniform Shelterwood	Single-Tree or Group Selection	Clearcut	Total Harvest Area
c	Pw	55	11.3	0.0	0.0	8.5	0.0	0.0	0.0	8.5
d	Sw	66	9.8	0.0	9.8	0.0	0.0	0.0	2.5	2.5

## Compartment 203

Sub-Compartment	Forest Unit	Age in 2011	Stand Area (ha)	Potential Intensive Management Areas		Treatment Type				
				Forest Management (ha)	Wildlife Management (ha)	Thinning	Uniform Shelterwood	Single-Tree or Group Selection	Clearcut	Total Harvest Area
b	UH	71	2.9	0.0	0.0	0.0	2.9	0.0	0.0	2.9
c	Pw	56	2.3	2.3	0.0	2.3	0.0	0.0	0.0	2.3
e	Pr	70	1.5	0.0	0.0	1.5	0.0	0.0	0.0	1.5
h	Pw	60	5.6	0.0	0.0	4.6	0.0	0.0	0.0	4.6
j	Pw	61	4.9	4.9	0.0	4.9	0.0	0.0	0.0	4.9
l	OC	58	2.2	0.0	0.0	0.0	2.2	0.0	0.0	2.2

## Compartment 225

Sub-Compartment	Forest Unit	Age in 2011	Stand Area (ha)	Potential Intensive Management Areas		Treatment Type				
				Forest Management (ha)	Wildlife Management (ha)	Thinning	Uniform Shelterwood	Single-Tree or Group Selection	Clearcut	Total Harvest Area
b	Pr	63	6.4	6.2	0.0	6.4	0.0	0.0	0.0	6.4
c	Pr	63	7.3	7.0	0.0	7.3	0.0	0.0	0.0	7.3
d	Pr	60	7.6	3.5	0.0	7.6	0.0	0.0	0.0	7.6

# Areas Selected For Operations – 2015 Operating Year

## Compartment 226

Sub-Compartment	Forest Unit	Age in 2011	Stand Area (ha)	Potential Intensive Management Areas		Treatment Type				
				Forest Management (ha)	Wildlife Management (ha)	Thinning	Uniform Shelterwood	Single-Tree or Group Selection	Clearcut	Total Harvest Area
a	Pr	64	3.1	0.0	0.0	3.1	0.0	0.0	0.0	3.1
b	Pr	61	7.8	7.8	0.0	7.8	0.0	0.0	0.0	7.8
d	Pr	61	15.2	15.2	0.0	15.2	0.0	0.0	0.0	14.8

## Compartment 242

Sub-Compartment	Forest Unit	Age in 2011	Stand Area (ha)	Potential Intensive Management Areas		Treatment Type				
				Forest Management (ha)	Wildlife Management (ha)	Thinning	Uniform Shelterwood	Single-Tree or Group Selection	Clearcut	Total Harvest Area
b	Pr	63	0.8	0.0	0.0	0.8	0.0	0.0	0.0	0.8

## Compartment 243

Sub-Compartment	Forest Unit	Age in 2011	Stand Area (ha)	Potential Intensive Management Areas		Treatment Type				
				Forest Management (ha)	Wildlife Management (ha)	Thinning	Uniform Shelterwood	Single-Tree or Group Selection	Clearcut	Total Harvest Area
a	Pw	63	4.7	0.0	0.0	4.7	0.0	0.0	0.0	4.7
b	IH	63	11.5	0.0	0.0	0.0	0.0	0.0	11.5	11.5
d	Pr	61	8.7	0.0	0.0	8.7	0.0	0.0	0.0	8.7

## Areas Selected For Contingency Harvest

Forest Unit	Treatment Type	Contingency Harvest (ha)
Red Pine (Pr)	Thinning	70.8
	Uniform Shelterwood Regeneration and 1 <sup>st</sup> Removal Cut	16.6
	<b>Sub-Total</b>	<b>87.4</b>
White Pine (Pw)	Thinning	27.0
	Uniform Shelterwood Regeneration and 1 <sup>st</sup> Removal Cut	41.5
	<b>Sub-Total</b>	<b>68.5</b>
White Spruce (Sw)	Thinning	34.3
	Uniform Shelterwood Regeneration and 1 <sup>st</sup> Removal Cut	52.5
	<b>Sub-Total</b>	<b>86.8</b>
Other Conifer Plantation (OC)	Thinning	23.4
	Uniform Shelterwood Regeneration and 1 <sup>st</sup> Removal Cut	6.3
	<b>Sub-Total</b>	<b>29.7</b>
Other Conifer (Natural OC)	Thinning	0.0
	Clearcut	0.0
	<b>Sub-Total</b>	<b>0.0</b>
Intolerant Hardwood (IH)	Clearcut	7.9
	Intensive Wildlife Management Areas	17.5
	<b>Sub-Total</b>	<b>25.4</b>
Mid and Tolerant Hardwood (LH and UH)	Single-Tree and Group Selection	25.3
	Uniform Shelterwood Regeneration and 1 <sup>st</sup> Removal Cut	14.5
	<b>Sub-Total</b>	<b>39.8</b>
<b>Total Area</b>		<b>337.6</b>

## Areas Selected For Contingency Harvest

### Compartment 10

Sub-Compartment	Forest Unit	Age in 2011	Stand Area (ha)	Potential Intensive Management Areas		Treatment Type				
				Forest Management (ha)	Wildlife Management (ha)	Thinning	Uniform Shelterwood	Single-Tree or Group Selection	Clearcut	Total Harvest Area
c	UH	83	9.0	0.0	0.0	0.0	0.0	9.0	0.0	9.0

### Compartment 63

Sub-Compartment	Forest Unit	Age in 2011	Stand Area (ha)	Potential Intensive Management Areas		Treatment Type				
				Forest Management (ha)	Wildlife Management (ha)	Thinning	Uniform Shelterwood	Single-Tree or Group Selection	Clearcut	Total Harvest Area
a	Pw	67	5.2	0.0	0.0	0.0	5.2	0.0	0.0	5.2
b	Pw	62	1.1	0.0	0.0	0.0	1.1	0.0	0.0	1.1
d	Sw	56	6.7	0.0	0.0	3.2	3.5	0.0	0.0	6.7
e	Pw	58	5.2	0.0	0.0	0.0	5.2	0.0	0.0	5.2
f	Pr	37	1.6	0.0	0.0	1.6	0.0	0.0	0.0	1.6
g	Pw	56	8.0	0.0	0.0	8.0	0.0	0.0	0.0	8.0
h	OC	52	0.6	0.0	0.0	0.0	0.6	0.0	0.0	0.6
i	Pw	B-S	0.6	0.0	0.0	0.0	0.6	0.0	0.0	0.6

### Compartment 64

Sub-Compartment	Forest Unit	Age in 2011	Stand Area (ha)	Potential Intensive Management Areas		Treatment Type				
				Forest Management (ha)	Wildlife Management (ha)	Thinning	Uniform Shelterwood	Single-Tree or Group Selection	Clearcut	Total Harvest Area
a	Pr	67	2.2	0.0	0.0	2.2	0.0	0.0	0.0	2.2
d	Pw	67	4.2	0.0	0.0	0.0	4.2	0.0	0.0	4.2
e	Pw	57	2.8	0.0	0.0	0.0	2.8	0.0	0.0	2.8
f	OC	53	6.0	0.0	0.0	6.0	0.0	0.0	0.0	6.0
j	Sw	53	0.6	0.0	0.0	0.6	0.0	0.0	0.0	0.6

## Areas Selected For Contingency Harvest

### Compartment 82

Sub-Compartment	Forest Unit	Age in 2011	Stand Area (ha)	Potential Intensive Management Areas		Treatment Type				
				Forest Management (ha)	Wildlife Management (ha)	Thinning	Uniform Shelterwood	Single-Tree or Group Selection	Clearcut	Total Harvest Area
a	Sw	67	2.8	0.0	0.0	0.0	2.8	0.0	0.0	2.8
b	Sw	57	4.5	0.0	0.0	0.0	4.5	0.0	0.0	4.5
d	Pr	67	22.3	0.0	0.0	8.0	6.0	0.0	0.0	14.0
g	Pr	64	3.6	0.0	0.0	0.0	3.6	0.0	0.0	3.6

### Compartment 83

Sub-Compartment	Forest Unit	Age in 2011	Stand Area (ha)	Potential Intensive Management Areas		Treatment Type				
				Forest Management (ha)	Wildlife Management (ha)	Thinning	Uniform Shelterwood	Single-Tree or Group Selection	Clearcut	Total Harvest Area
b	Pw	67	6.5	0.0	0.0	0.0	6.5	0.0	0.0	6.5
d	Pr	67	18.6	0.0	0.0	0.0	2.1	0.0	0.0	2.1

### Compartment 105

Sub-Compartment	Forest Unit	Age in 2011	Stand Area (ha)	Potential Intensive Management Areas		Treatment Type				
				Forest Management (ha)	Wildlife Management (ha)	Thinning	Uniform Shelterwood	Single-Tree or Group Selection	Clearcut	Total Harvest Area
a	Pw	67	6.9	0.0	0.0	0.0	6.9	0.0	0.0	6.9
c	Pr	67	8.1	0.0	0.0	8.1	0.0	0.0	0.0	8.1
d	Pr	67	3.6	0.0	0.0	3.6	0.0	0.0	0.0	3.6
e	Pw	57	0.8	0.0	0.0	0.8	0.0	0.0	0.0	0.8
f	Sw	57	1.6	0.0	0.0	0.0	1.6	0.0	0.0	1.6

### Compartment 107

Sub-Compartment	Forest Unit	Age in 2011	Stand Area (ha)	Potential Intensive Management Areas		Treatment Type				
				Forest Management (ha)	Wildlife Management (ha)	Thinning	Uniform Shelterwood	Single-Tree or Group Selection	Clearcut	Total Harvest Area
a	LH	66	17.0	0.0	0.0	0.0	4.2	0.0	0.0	4.2
b	LH	83	8.9	8.0	0.0	0.0	9.4	0.0	0.0	9.4
c	LH	73	3.8	0.0	0.0	0.0	0.9	0.0	0.0	0.9

## Areas Selected For Contingency Harvest

### Compartment 221

Sub-Compartment	Forest Unit	Age in 2011	Stand Area (ha)	Potential Intensive Management Areas		Treatment Type				
				Forest Management (ha)	Wildlife Management (ha)	Thinning	Uniform Shelterwood	Single-Tree or Group Selection	Clearcut	Total Harvest Area
a	OC	56	3.2	0.0	0.0	0.0	3.2	0.0	0.0	3.2
d	OC	56	5.7	0.0	0.0	5.7	0.0	0.0	0.0	5.7
f	Pw	60	9.0	0.0	0.0	0.0	9.0	0.0	0.0	9.0

### Compartment 223

Sub-Compartment	Forest Unit	Age in 2011	Stand Area (ha)	Potential Intensive Management Areas		Treatment Type				
				Forest Management (ha)	Wildlife Management (ha)	Thinning	Uniform Shelterwood	Single-Tree or Group Selection	Clearcut	Total Harvest Area
c	Pr	65	17.4	17.4	0.0	17.4	0.0	0.0	0.0	17.4
e	Sw	65	4.9	0.0	0.0	0.0	4.9	0.0	0.0	4.9
f	Pr	65	0.8	0.0	0.0	0.8	0.0	0.0	0.0	0.8

### Compartment 224

Sub-Compartment	Forest Unit	Age in 2011	Stand Area (ha)	Potential Intensive Management Areas		Treatment Type				
				Forest Management (ha)	Wildlife Management (ha)	Thinning	Uniform Shelterwood	Single-Tree or Group Selection	Clearcut	Total Harvest Area
a	Pr	65	0.8	0.0	0.0	0.8	0.0	0.0	0.0	0.8
b	IH	71	3.3	0.0	0.0	0.0	0.0	0.0	3.3	3.3
c	Pr	65	16.9	12.0	0.0	16.9	0.0	0.0	0.0	16.9
d	IH	68	4.6	0.0	0.0	0.0	0.0	0.0	4.6	4.6

### Compartment 237

Sub-Compartment	Forest Unit	Age in 2011	Stand Area (ha)	Potential Intensive Management Areas		Treatment Type				
				Forest Management (ha)	Wildlife Management (ha)	Thinning	Uniform Shelterwood	Single-Tree or Group Selection	Clearcut	Total Harvest Area
a	OC	52	5.5	0.0	0.0	5.5	0.0	0.0	0.0	5.5
b	IH	56	26.5	0.0	26.5	0.0	0.0	0.0	6.6	6.6



# Areas Selected For Contingency Harvest

## Compartment 238

Sub-Compartment	Forest Unit	Age in 2011	Stand Area (ha)	Potential Intensive Management Areas		Treatment Type				
				Forest Management (ha)	Wildlife Management (ha)	Thinning	Uniform Shelterwood	Single-Tree or Group Selection	Clearcut	Total Harvest Area
e	Sw	64	5.9	0.0	0.0	0.0	5.9	0.0	0.0	5.9

## Compartment 251

Sub-Compartment	Forest Unit	Age in 2011	Stand Area (ha)	Potential Intensive Management Areas		Treatment Type				
				Forest Management (ha)	Wildlife Management (ha)	Thinning	Uniform Shelterwood	Single-Tree or Group Selection	Clearcut	Total Harvest Area
a	Sw	61	18.2	0.0	0.0	0.0	18.2	0.0	0.0	18.2

## Compartment 252

Sub-Compartment	Forest Unit	Age in 2011	Stand Area (ha)	Potential Intensive Management Areas		Treatment Type				
				Forest Management (ha)	Wildlife Management (ha)	Thinning	Uniform Shelterwood	Single-Tree or Group Selection	Clearcut	Total Harvest Area
a	Pw	59	18.2	0.0	0.0	18.2	0.0	0.0	0.0	18.2
b	Sw	47	17.9	0.0	0.0	17.9	0.0	0.0	0.0	17.9

## Compartment 255

Sub-Compartment	Forest Unit	Age in 2011	Stand Area (ha)	Potential Intensive Management Areas		Treatment Type				
				Forest Management (ha)	Wildlife Management (ha)	Thinning	Uniform Shelterwood	Single-Tree or Group Selection	Clearcut	Total Harvest Area
a	Pr	64	4.9	0.0	0.0	0.0	4.9	0.0	0.0	4.9
b	Sw	59	4.1	0.0	0.0	0.0	2.9	0.0	0.0	2.9
c	IH	69	10.1	0.0	10.1	0.0	0.0	0.0	2.5	2.5
f	Sw	63	13.7	0.0	0.0	4.1	9.6	0.0	0.0	13.7

# Areas Selected For Contingency Harvest

## Compartment 256

Sub-Compartment	Forest Unit	Age in 2011	Stand Area (ha)	Potential Intensive Management Areas		Treatment Type				
				Forest Management (ha)	Wildlife Management (ha)	Thinning	Uniform Shelterwood	Single-Tree or Group Selection	Clearcut	Total Harvest Area
c	Pr	76	7.3	0.0	0.0	7.3	0.0	0.0	0.0	7.3

## Compartment 260

Sub-Compartment	Forest Unit	Age in 2011	Stand Area (ha)	Potential Intensive Management Areas		Treatment Type				
				Forest Management (ha)	Wildlife Management (ha)	Thinning	Uniform Shelterwood	Single-Tree or Group Selection	Clearcut	Total Harvest Area
d	IH	66	11.3	0.0	11.3	0.0	0.0	0.0	2.8	2.8

## Compartment 261

Sub-Compartment	Forest Unit	Age in 2011	Stand Area (ha)	Potential Intensive Management Areas		Treatment Type				
				Forest Management (ha)	Wildlife Management (ha)	Thinning	Uniform Shelterwood	Single-Tree or Group Selection	Clearcut	Total Harvest Area
i	IH	64	11.2	0.0	11.2	0.0	0.0	0.0	2.8	2.8

## Compartment 262

Sub-Compartment	Forest Unit	Age in 2011	Stand Area (ha)	Potential Intensive Management Areas		Treatment Type				
				Forest Management (ha)	Wildlife Management (ha)	Thinning	Uniform Shelterwood	Single-Tree or Group Selection	Clearcut	Total Harvest Area
d	IH	66	11.3	0.0	11.3	0.0	0.0	0.0	2.8	2.8

## Compartment 264

Sub-Compartment	Forest Unit	Age in 2011	Stand Area (ha)	Potential Intensive Management Areas		Treatment Type				
				Forest Management (ha)	Wildlife Management (ha)	Thinning	Uniform Shelterwood	Single-Tree or Group Selection	Clearcut	Total Harvest Area
a	Sw	61	8.2	0.0	0.0	0.0	8.2	0.0	0.0	8.2
f	OC	59	6.2	0.0	0.0	6.2	0.0	0.0	0.0	6.2
g	Sw	58	8.5	0.0	0.0	8.5	0.0	0.0	0.0	8.5

## Areas Selected For Contingency Harvest

### Compartment 265

Sub-Compartment	Forest Unit	Age in 2011	Stand Area (ha)	Potential Intensive Management Areas		Treatment Type				
				Forest Management (ha)	Wildlife Management (ha)	Thinning	Uniform Shelterwood	Single-Tree or Group Selection	Clearcut	Total Harvest Area
a	Pr	76	0.8	0.0	0.0	0.8	0.0	0.0	0.0	0.8
d	OC	66	3.7	0.0	0.0	0.0	2.5	0.0	0.0	2.5

### Compartment 327

Sub-Compartment	Forest Unit	Age in 2011	Stand Area (ha)	Potential Intensive Management Areas		Treatment Type				
				Forest Management (ha)	Wildlife Management (ha)	Thinning	Uniform Shelterwood	Single-Tree or Group Selection	Clearcut	Total Harvest Area
a	UH	61	14.0	0.0	0.0	0.0	0.0	14.0	0.0	14.0
b	UH	76	2.3	0.0	0.0	0.0	0.0	2.3	0.0	2.3

### Compartment 365

Sub-Compartment	Forest Unit	Age in 2011	Stand Area (ha)	Potential Intensive Management Areas		Treatment Type				
				Forest Management (ha)	Wildlife Management (ha)	Thinning	Uniform Shelterwood	Single-Tree or Group Selection	Clearcut	Total Harvest Area
a	Pr	41	2.8	1.1	0.0	1.1	0.0	0.0	0.0	1.1
c	Pr	40	6.2	0.0	0.0	2.2	0.0	0.0	0.0	2.2

**Appendix B – Compartments Selected  
For Regeneration Treatment For The  
2011-2015 Operating Year**

## Areas Selected For Regeneration Treatment – 2011

Compartment	Sub-Compartment	Forest Unit	Treatment Type		
			Scarification / Site Preparation (ha)	Tree Planting	
				Area (ha)	Estimated # of trees
<b>51</b>	a	Pr	4.3	0.0	0.0
<b>52</b>	f	Sw	0.8	0.0	0
<b>139</b>	a	Pr	0.0	2.0	1,000
<b>294</b>	a	Pw	0.0	2.5	3,600
	b	Sw	1.6	0.0	0
	d	Pw	0.0	1.0	1,500
<b>295</b>	c	Pr	4.6	0.0	0
	d	Sw	0.0	1.9	2,800
	f	Sw	1.5	0.0	0
<b>300</b>	b	Pr	0.0	2.0	3,000
<b>301</b>	c	Pw	2.1	0.0	0
	d	Pr	0.0	2.5	3,600
	e	IH	3.0	0.0	0
	h	Pw	4.3	0.0	0
<b>341</b>	b	Pw	1.0	0.0	0
	c	Pw	2.1	0.0	0
<b>357</b>	a	IH	5.5	0.0	0
<b>375</b>	f	OC	0.8	0.0	0
	h	OC	1.5	0.0	0
<b>Total</b>			33.1	11.8	15,500

## Areas Selected For Regeneration Treatment – 2012

Compartment	Sub-Compartment	Forest Unit	Treatment Type		
			Scarification / Site Preparation (ha)	Tree Planting	
				Area (ha)	Estimated # of trees
<b>51</b>	a	Pr	0.0	4.3	6,400
<b>52</b>	f	Sw	0.0	0.8	1,200
<b>84</b>	a	Ms	1.3	0.0	0
<b>85</b>	d	Pw	2.6	0.0	0
<b>109</b>	b	Pw	7.3	0.0	0
<b>111</b>	a	Sw	12.8	0.0	0
	d	Sw	1.2	0.0	0
<b>140</b>	b	Pw	3.8	0.0	0
<b>294</b>	b	Sw	0.0	1.6	3,200
<b>295</b>	c	Pr	0.0	4.6	6,900
	f	Sw	0.0	1.5	3,000
<b>301</b>	c	Pw	0.0	2.1	4,200
	e	IH	0.0	3.0	4,500
	h	Pw	0.0	4.3	6,700
<b>341</b>	b	Pw	0.0	1.0	1,500
	c	Pw	0.0	2.1	3,100
<b>357</b>	a	IH	0.0	5.5	8,200
<b>375</b>	f	OC	0.0	0.8	1,200
	h	OC	0.0	1.5	3,000
<b>Total</b>			29.0	44.2	53,100

## Areas Selected For Regeneration Treatment – 2013

Compartment	Sub-Compartment	Forest Unit	Treatment Type		
			Scarification / Site Preparation (ha)	Tree Planting	
				Area (ha)	Estimated # of trees
<b>79</b>	a	Sw	11.7	0.0	0
<b>80</b>	b	Sw	4.9	0.0	0
<b>81</b>	f	Sw	7.2	0.0	0
<b>84</b>	a	Ms	0.0	1.3	1,900
<b>85</b>	d	Pw	0.0	2.6	3,900
<b>100</b>	a	Sw	4.0	0.0	0
	b	Pw	3.0	0.0	0
<b>103</b>	a	Pr	4.2	0.0	0
	b	Pw	9.4	0.0	0
<b>109</b>	b	Pw	0.0	7.3	10,900
<b>111</b>	a	Sw	0.0	12.8	19,200
	d	Sw	0.0	1.2	1,800
<b>134</b>	a	Pr	2.7	0.0	0
<b>135</b>	j	Sw	4.9	0.0	0
<b>136</b>	f	Sw	1.2	0.0	0
<b>140</b>	b	Pw	0.0	3.8	5,700
<b>326</b>	a	Pw	2.3	0.0	0
<b>333</b>	a	Pw	4.5	0.0	0
<b>Total</b>			60.0	29.0	43,400

## Areas Selected For Regeneration Treatment – 2014

Compartment	Sub-Compartment	Forest Unit	Treatment Type		
			Scarification / Site Preparation (ha)	Tree Planting	
				Area (ha)	Estimated # of trees
18	b	Pr	3.4	0.0	0
19	c	Pr	6.0	0.0	0
20	c	Pw	2.0	0.0	0
21	d	Pw	6.7	0.0	0
	e	Sw	1.4	0.0	0
44	a	Pw	5.5	0.0	0
79	a	Sw	0.0	11.7	17,500
80	b	Sw	0.0	4.9	7,300
81	f	Sw	0.0	7.2	10,800
83	b	Pw	3.2	0.0	0
100	a	Sw	0.0	4.0	6,000
	b	Pw	0.0	3.0	4,500
103	a	Pr	0.0	4.2	6,300
	b	Pw	0.0	9.4	14,100
134	a	Pr	0.0	2.7	4,000
135	j	Sw	0.0	4.9	7,300
136	f	Sw	0.0	1.2	1,800
318	a	Sw	9.6	0.0	0
	b	Pr	2.0	0.0	0
319	b	Sw	3.2	0.0	0
	c	Pr	0.3	0.0	0
326	a	Pw	0.0	2.3	3,400
333	a	Pw	0.0	4.5	6,700
349	b	OC	5.2	0.0	0
<b>Total</b>			48.5	60.0	89,700



## Areas Selected For Regeneration Treatment – 2015

Compartment	Sub-Compartment	Forest Unit	Treatment Type		
			Scarification / Site Preparation (ha)	Tree Planting	
				Area (ha)	Estimated # of trees
18	b	Pr	0.0	3.4	5,100
19	c	Pr	0.0	6.0	9,000
20	c	Pw	0.0	2.0	3,000
21	d	Pw	0.0	6.7	10,000
	e	Sw	0.0	1.4	2,100
44	a	Pw	0.0	5.5	8,200
83	b	Pw	0.0	3.2	4,800
157	b	Pw	9.0	0.0	0
179	c	Pr	3.5	0.0	0
200	a	Sw	5.2	0.0	0
227	f	Sw	2.1	0.0	0
	g	Sw	1.6	0.0	0
228	f	Sw	1.9	0.0	0
244	a	Sw	11.3	0.0	0
	b	Sw	5.5	0.0	0
245	a	Sw	29.1	0.0	0
246	e	Pw	8.3	0.0	0
	h	Pw	1.9	0.0	0
318	a	Sw	0.0	9.6	14,400
	b	Pr	0.0	2.0	3,000
319	b	Sw	0.0	3.2	9,600
	c	Pr	0.0	0.3	500
349	b	OC	0.0	5.2	7,800
<b>Total</b>			79.4	48.5	77,500

**Appendix D – Compartments Selected  
For Tending For The 2011-2015  
Operating Period**

## Areas Selected For Tending – 2011

Compartment	Sub-Compartment	Forest Unit	Treatment Type		
			Manual and/or Chemical Tending (ha)	Pre-commercial Thinning (ha)	Stand Improvement (ha)
51	a	Pr	3.3	0.0	0.0
81	b	Pr	0.4	0.0	0.0
113	c	Pr	2.1	0.0	0.0
135	b	IH	0.0	0.0	2.5
140	a	Sw	0.0	2.0	0.0
199	f	Pr	3.1	0.0	0.0
226	b	Pr	1.4	0.0	0.0
247	f	Pr	0.8	0.0	0.0
324	b	Pr	0.7	0.0	0.0
375	e	Pr	0.0	1.0	0.0
<b>Total</b>			11.8	3.0	2.5

## Areas Selected For Tending – 2012

Compartment	Sub-Compartment	Forest Unit	Treatment Type		
			Manual and/or Chemical Tending (ha)	Pre-commercial Thinning (ha)	Stand Improvement (ha)
32	b	Pr	5.8	0.0	0.0
41	c	Pr	2.2	0.0	0.0
45	e	Pr	3.9	0.0	0.0
47	b	Pr	5.1	0.0	0.0
48	b	Pr	5.3	0.0	0.0
50	b	Pr	7.8	0.0	0.0
124	b	Ps	5.6	0.0	0.0
161	d	Pr	4.5	0.0	0.0
163	g	Pw	0.0	2.4	0.0
316	c	Pr	1.9	0.0	0.0
339	b	LH	0.0	0.0	4.2
	c	LH	0.0	0.0	6.3
	d	LH	0.0	0.0	5.2
	e	LH	0.0	0.0	1.7
340	d	Pr	2.0	0.0	0.0
341	a	OC	1.0	0.0	0.0
<b>Total</b>			45.1	2.4	17.4

## Areas Selected For Tending – 2013

Compartment	Sub-Compartment	Forest Unit	Treatment Type		
			Manual and/or Chemical Tending (ha)	Pre-commercial Thinning (ha)	Stand Improvement (ha)
350	c	LH	0.0	0.0	12.6
	d	LH	0.0	0.0	2.9
363	a	IH	0.0	0.0	5.3
	c	LH	0.0	0.0	5.2
<b>Total</b>			0.0	0.0	26.0

## Areas Selected For Tending – 2014

Compartment	Sub-Compartment	Forest Unit	Treatment Type		
			Manual and/or Chemical Tending (ha)	Pre-commercial Thinning (ha)	Stand Improvement (ha)
210	a	UH	0.0	0.0	23.0
211	b	UH	0.0	0.0	12.4
<b>Total</b>			0.0	0.0	35.4

## Areas Selected For Tending – 2015

Compartment	Sub-Compartment	Forest Unit	Treatment Type		
			Manual and/or Chemical Tending (ha)	Pre-commercial Thinning (ha)	Stand Improvement (ha)
185	h	UH	0.0	0.0	9.7
203	b	UH	0.0	0.0	2.2
<b>Total</b>			0.0	0.0	11.9