

**Weyerhaeuser Grande Prairie  
2011 – 2021 DFMP**

**Performance Standards:  
Values, Objectives, Indicators and Targets  
(VOITs)**

**FMA #6900016**

**June 2011**



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# 1 Overview

This document details values, objectives, indicators and targets of the 2011 – 2021 Weyerhaeuser Grande Prairie DFMP.

The following VOITs have been reviewed:

1. Objective 1.1.1.1 – Seral stage retention
2. Objective 1.1.1.2 – Range of harvest areas
3. Objective 1.1.1.3 – Area of Old Interior Forest and Patch Sizes

## 2 Objective 1.1.1.1 Seral Stage Retention

Section 8.7.5 compares the comparison between 1946 seral stage targets and the PFMS outputs. Projected gross area distribution by seral stages at years 0, 10, and 50 are provided in Table 2-1.

**Table 2-1 Seral Stage Retention Projections**

Cover Class	Age Class (years)						Total
	0-10	11-40	41-80	81-120	121-140	141+	
<b>Year 0</b>							
DX	17,715	20,251	94,227	137,014	1,365	70	270,642
DC	2	7,009	66,311	29,919	671	125	104,037
CD	2,926	22,744	8,483	19,864	2,682	1,879	58,579
C-PI	34,064	53,016	32,611	177,210	26,454	22,444	345,799
C-Sw	17,004	40,317	23,372	84,073	28,078	32,520	225,363
C-Sb	2	649	9,001	38,407	11,566	10,158	69,783
<b>Total</b>	<b>71,712</b>	<b>143,986</b>	<b>234,006</b>	<b>486,487</b>	<b>70,817</b>	<b>67,196</b>	<b>1,074,203</b>
<b>Year 10</b>							
DX	40,911	32,934	68,422	124,223	3,529	167	270,186
DC	456	3,076	56,794	31,360	1,901	456	94,043
CD	16,188	16,292	15,373	13,717	4,567	2,848	68,984
C-PI	63,333	75,884	32,128	115,331	34,645	24,497	345,818
C-Sw	11,848	50,831	22,696	65,612	36,550	37,851	225,389
C-Sb	3,615	318	5,250	32,492	14,871	13,237	69,783
<b>Total</b>	<b>136,352</b>	<b>179,335</b>	<b>200,662</b>	<b>382,736</b>	<b>96,063</b>	<b>79,055</b>	<b>1,074,203</b>
<b>Year 50</b>							
DX	22,939	81,220	66,027	47,399	20,423	30,367	268,375
DC	1,491	842	2,805	26,869	7,980	7,752	47,738
CD	16,002	36,723	25,758	13,335	3,108	6,627	101,552
C-PI	30,802	76,980	105,820	24,429	26,134	85,748	349,912
C-Sw	27,105	73,571	57,106	13,221	7,312	58,526	236,843
C-Sb	9,252	12,129	3,388	4,866	7,817	32,331	69,783
<b>Total</b>	<b>107,590</b>	<b>281,465</b>	<b>260,903</b>	<b>130,119</b>	<b>72,775</b>	<b>221,351</b>	<b>1,074,203</b>

### 3 Objective 1.1.1.2.2 Range of Harvest Areas

Table 3-1 summarizes PFMS harvest area distribution by cutblock size classes at year 0-5, 10, 20, and 50.

**Table 3-1 PFMS SHS Harvest Area Size Distribution**

Period (years)	<5 ha	5-10 ha	11-40 ha	41-100 ha	101-500 ha	500+ ha	Grand Total
<b>Area (ha)</b>							
1 (0 – 5 years)	3,479	8,798	28,806	18,269	8,439	588	68,379
2 (10 years)	5,272	9,220	28,302	14,750	9,319	1,111	67,972
4 (20 years)	2,295	8,270	22,658	11,009	7,611		51,842
10 (50 years)	1,412	6,400	17,371	10,688	7,310		43,181
<b>Area (%)</b>							
1 (0 – 5 years)	5.1%	12.9%	42.1%	26.7%	12.3%	0.9%	100.0%
2 (10 years)	7.8%	13.6%	41.6%	21.7%	13.7%	1.6%	100.0%
4 (20 years)	4.4%	16.0%	43.7%	21.2%	14.7%	0.0%	100.0%
10 (50 years)	3.3%	14.8%	40.2%	24.8%	16.9%	0.0%	100.0%

### 4 Objective 1.1.1.2.3 Area of Old Interior Forest and Patch Sizes

Interior old forests were identified as forested area greater than 100 ha in size located beyond edge effect buffer zone along the forest edge. As an objective for interior forest, a common age definition for all cover classes was used to prevent breaking up forest patches that have a common origin date. Table 4-1 summarizes old interior forest area distribution by cover classes at ages 0, 10, and 50.

**Table 4-1 Projected Area of Old Interior Forests**

Cover Class	Year 0	Year 10	Year 50
DX	189	389	7,115
DC	207	349	3,566
CD	551	774	1,869
C-PI	30,317	37,511	51,371
C-Sw	26,539	29,975	20,752
C-Sb	5,468	7,038	9,454
Sum	63,270	76,036	94,127
Count	123	132	197
Avg Area	514	576	478

Patch is a stand of forest in the same seral stage, and not split by a linear feature greater than 8m wide. Linear features in this definition included roads, pipelines, power lines, and rivers; seismic lines were excluded. Table 4-2 summarizes patch size distribution at year 0, 10, and 50.

**Table 4-2 Projected Patch Size Distribution**

Patch Size Class (ha)	Year 0		Year 10		Year 50	
	Count	Area	Count	Area	Count	Area
0-10	30,304	68,463	51,389	105,479	102,808	186,155
10-40	7,491	153,248	10,297	205,411	14,126	272,011
40-100	2,361	144,122	2,762	167,138	3,186	193,388
100-500	1,152	231,560	1,304	255,472	1,184	218,325
500+	256	476,793	221	340,687	138	204,307
Sum	41,564	1,074,186	65,973	1,074,186	121,442	1,074,186
Average		25.8		16.3		8.8

## 5 Appendix 1 – VOIT's Table





## 6 Appendix 2 – VOIT’s Maps

### Seral Stages

seral\_stages\_0.pdf  
seral\_stages\_10.pdf  
seral\_stages\_50.pdf

### Patch Sizes

patch\_size\_0.pdf  
patch\_size\_10.pdf  
patch\_size\_50.pdf

### Interior Old Forests

iof\_0.pdf  
iof\_10.pdf  
iof\_50.pdf

