

Figure 28. Forested landbase age class distribution within the DFA.

Table 21, Table 22 and Table 23 summarize the managed landbase area within each age class by BCG, for W11, W13, and W11 and W13 combined, respectively. Figure 29 illustrates the managed landbase age-class distribution for W11, W13, and W11 and W13 combined. Figure 30 illustrates the spatial distribution of the age-classes on the managed landbase.



Table 21. W11 managed landbase age-class summary by BCG.

Age Class (Yrs.)	D		DC		CD		C		Total	
	(Ha)	(%)	(Ha)	(%)	(Ha)	(%)	(Ha)	(%)	(Ha)	(%)
10	4,850	6%	1,265	1%	2,055	2%	3,378	4%	11,549	13%
30	16,898	19%	314	0%	151	0%	2,126	2%	19,489	22%
50	1,726	2%	101	0%	66	0%	669	1%	2,562	3%
70	3,911	4%	399	0%	418	0%	2,491	3%	7,219	8%
90	10,918	12%	1,274	1%	538	1%	1,950	2%	14,680	17%
110	13,495	15%	2,449	3%	2,361	3%	8,103	9%	26,408	30%
130	1,440	2%	504	1%	976	1%	2,141	2%	5,061	6%
150	77	0%	75	0%	54	0%	193	0%	399	0%
170	-	0%	-	0%	1	0%	-	0%	1	0%
190	-	0%	-	0%	-	0%	-	0%	-	0%
210	-	0%	-	0%	-	0%	-	0%	-	0%
Total	53,316	61%	6,380	7%	6,621	8%	21,051	24%	87,369	100%

Table 22. W13 managed landbase age-class summary by BCG.

Age Class (Yrs.)	D		DC		CD		C		Total	
	(Ha)	(%)	(Ha)	(%)	(Ha)	(%)	(Ha)	(%)	(Ha)	(%)
10	7,547	4%	2,518	1%	6,427	3%	33,258	16%	49,750	24%
30	1,839	1%	1,128	1%	5,639	3%	937	0%	9,543	5%
50	8,958	4%	3,404	2%	2,070	1%	18,486	9%	32,917	16%
70	15,645	8%	4,024	2%	2,635	1%	16,212	8%	38,515	19%
90	4,899	2%	2,676	1%	1,638	1%	4,975	2%	14,188	7%
110	16,501	8%	7,716	4%	3,533	2%	6,995	3%	34,745	17%
130	3,336	2%	3,494	2%	5,042	2%	8,204	4%	20,076	10%
150	165	0%	111	0%	942	0%	4,080	2%	5,298	3%
170	-	0%	14	0%	63	0%	651	0%	728	0%
190	-	0%	-	0%	13	0%	615	0%	628	0%
210	-	0%	-	0%	-	0%	28	0%	28	0%
Total	58,891	29%	25,083	12%	28,001	14%	94,440	46%	206,415	100%

Table 23. W11 and W13 managed landbase age-class summary by BCG.

Age Class (Yrs.)	D		DC		CD		C		Total	
	(Ha)	(%)	(Ha)	(%)	(Ha)	(%)	(Ha)	(%)	(Ha)	(%)
10	12,397	4%	3,783	1%	8,482	3%	36,636	12%	61,298	21%
30	18,737	6%	1,442	0%	5,790	2%	3,063	1%	29,031	10%
50	10,684	4%	3,504	1%	2,136	1%	19,155	7%	35,479	12%
70	19,556	7%	4,422	2%	3,053	1%	18,703	6%	45,735	16%
90	15,817	5%	3,950	1%	2,176	1%	6,925	2%	28,868	10%
110	29,997	10%	10,164	3%	5,894	2%	15,098	5%	61,153	21%
130	4,776	2%	3,998	1%	6,018	2%	10,345	4%	25,138	9%
150	242	0%	186	0%	996	0%	4,273	1%	5,697	2%
170	-	0%	14	0%	65	0%	651	0%	730	0%
190	-	0%	-	0%	13	0%	615	0%	628	0%
210	-	0%	-	0%	-	0%	28	0%	28	0%
Total	112,207	38%	31,463	11%	34,623	12%	115,492	39%	293,784	100%



Figure 29. Managed landbase age-class distribution by FMU and combined FMUs.

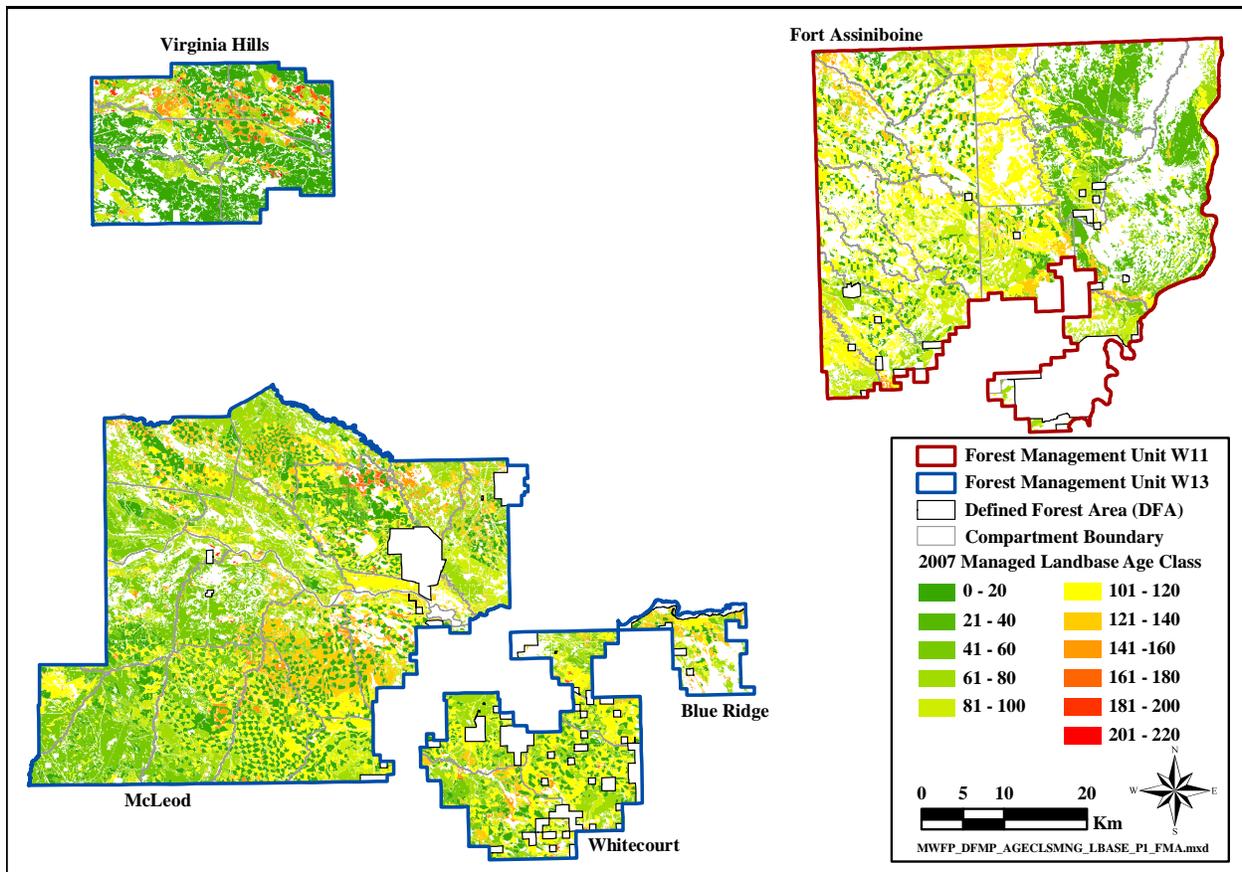


Figure 30. Managed landbase age class distribution within the DFA.

4.3 Seral Stages

Seral stages used in the development of Millar Western’s 2007-2016 DFMP originated from the Biodiversity Assessment Project (BAP), which uses a classification system known as BAP Stratification. BAP strata, a refinement of species strata, have been, for the purposes of this section, summed up to species strata. Table 24 defines the age classes that relate to each seral stage for each BAP and species stratum.

**Table 24. Summary of stand age by seral-stage and species stratum.**

Species		Age (years) by Seral Stage					
Stratum	BAP Stratum	Clearing	Regenerated	Young	Immature	Mature	Old
Deciduous Broad Cover Group (D)							
AW	AW	< 2	2-11	12-35	36-70	71-130	>= 131
AW	PB	< 2	2-11	12-35	36-70	71-140	>= 141
BW	BW	< 3	3-11	12-30	31-70	71-100	>= 101
Deciduous / Coniferous Broad Cover Group (DC)							
AP	AW_PL	< 2	2-13	14-35	36-65	66-130	>= 131
AS	AW_SWSB	< 4	4-14	15-45	46-70	71-140	>= 141
AS	PB_CON	< 4	4-14	15-40	41-70	71-150	>= 151
Coniferous / Deciduous Broad Cover Group (CD)							
PA	PL_DEC	< 2	2-11	12-40	41-75	76-160	>= 161
SA	SWSB_DEC	< 5	5-19	20-45	46-80	81-150	>= 151
Coniferous Broad Cover Group (C)							
PL	PL	< 2	2-11	12-40	41-80	81-140	>= 141
LT	LT	< 2	2-19	20-50	51-90	91-130	>= 131
SW	SW	< 5	5-19	20-55	56-85	86-170	>= 171
SB	SB (lowland)	< 7	7-19	20-80	81-120	121-180	>= 181
SB	SB (upland)	< 7	7-19	20-70	71-100	101-160	>= 161

In addition to the seral stages defined in Table 24, the classification “oldgrowthness” has been established to reflect the relative measure of old-growth characteristics in each forested stand. Oldgrowthness is a continuous measure of the old-growth attributes present in a stand at a given point in time. It is portrayed as a multiplier of the total stand area, with each stand beginning to accumulate oldgrowthness value at 0.5, the midpoint age of the mature seral stage. It continues this accumulation to the transition point between the mature and old seral stages, where the value equals 0.75. The stand continues this same rate of accumulation until it reaches a value of 1.0, at which point, 100% of the stand area is classified as having achieved maximum state of oldgrowthness.

Table 25, Table 26 and Table 27 summarize the forested landbase area within each seral stage by BCG and species stratum, for W11, W13, and W11 and W13 combined, respectively. Figure 31 illustrates the forested landbase seral stage distribution for W11, W13, and W11 and W13 combined, respectively. Figure 32 illustrates the spatial distribution of the species strata for the DFA, while Figure 33 illustrates the spatial distribution and degree of oldgrowthness for the forested landbase.



Table 25. W11 forested landbase seral-stage summary.

Species Strata	Clearing		Regen		Young		Immature		Mature		Old		Oldgrowthness	
	(Ha)	(%)	(Ha)	(%)	(Ha)	(%)	(Ha)	(%)	(Ha)	(%)	(Ha)	(%)	(Ha)	(%)
Deciduous Broad Cover Group (D)														
AW	822	1%	2,401	2%	1,785	1%	22,549	15%	28,485	19%	523	0%	11,722	8%
BW	-	0%	9	0%	-	0%	112	0%	17	0%	4	0%	14	0%
Total	822	1%	2,410	2%	1,785	1%	22,661	15%	28,502	19%	527	0%	11,736	8%
Deciduous / Coniferous Broad Cover Group (DC)														
AP	31	0%	218	0%	85	0%	359	0%	1,220	1%	14	0%	380	0%
AS	151	0%	1,194	0%	241	0%	535	0%	4,131	3%	-	0%	1,832	1%
Total	182	0%	799	1%	325	0%	895	1%	5,351	4%	14	0%	2,212	1%
Coniferous / Deciduous Broad Cover Group (CD)														
PA	9	0%	353	0%	187	0%	851	1%	834	1%	-	0%	75	0%
SA	481	0%	1,194	1%	-	0%	292	0%	3,575	2%	12	0%	1,389	1%
Total	489	0%	1,547	1%	187	0%	1,143	1%	4,408	3%	12	0%	1,464	1%
Coniferous Broad Cover Group (C)														
LT	-	0%	60	0%	2,150	1%	16,103	11%	6,282	4%	942	1%	2,625	2%
PL	167	0%	1,011	1%	2,127	1%	4,145	3%	5,843	4%	57	0%	1,218	1%
SB	107	0%	59	0%	13,799	9%	7,967	5%	4,466	3%	-	0%	1,321	1%
SW	629	0%	1,417	1%	302	0%	625	0%	7,447	5%	-	0%	776	1%
Total	903	1%	2,547	2%	18,378	12%	28,840	20%	24,038	16%	999	1%	5,940	4%
Grand Total	2,396	2%	7,303	5%	20,676	14%	53,539	36%	62,300	42%	1,552	1%	21,352	14%

Table 26. W13 forested landbase seral-stage summary.

Species Strata	Clearing		Regen		Young		Immature		Mature		Old		Oldgrowthness	
	(Ha)	(%)	(Ha)	(%)	(Ha)	(%)	(Ha)	(%)	(Ha)	(%)	(Ha)	(%)	(Ha)	(%)
Deciduous Broad Cover Group (D)														
AW	1,276	0%	5,707	2%	2,559	1%	24,247	9%	32,840	12%	755	0%	16,697	6%
BW	5	0%	92	0%	84	0%	1,010	0%	44	0%	3	0%	19	0%
Total	1,281	0%	5,799	2%	2,643	1%	25,257	9%	32,883	12%	759	0%	16,717	6%
Deciduous / Coniferous Broad Cover Group (DC)														
AP	149	0%	1,154	0%	80	0%	1,956	1%	3,019	1%	54	0%	1,462	1%
AS	560	0%	1,555	1%	872	0%	4,386	2%	14,293	5%	117	0%	7,674	3%
Total	709	0%	2,709	1%	952	0%	6,342	2%	17,311	6%	172	0%	9,136	3%
Coniferous / Deciduous Broad Cover Group (CD)														
PA	242	0%	3,782	1%	1,160	0%	2,591	1%	3,039	1%	56	0%	2,387	1%
SA	398	0%	2,722	1%	4,731	2%	2,238	1%	9,581	4%	269	0%	5,780	2%
Total	641	0%	6,505	2%	5,891	2%	4,829	2%	12,620	5%	325	0%	8,167	3%
Coniferous Broad Cover Group (C)														
LT	-	0%	18	0%	33	0%	4,451	2%	1,199	0%	822	0%	1,422	1%
PL	383	0%	24,524	9%	5,065	2%	29,507	11%	9,091	3%	2,172	1%	11,155	4%
SB	3,561	1%	617	0%	19,390	7%	5,875	2%	12,578	5%	1,452	1%	6,001	2%
SW	1,306	0%	5,768	2%	865	0%	2,685	1%	10,660	4%	53	0%	3,949	1%
Total	5,250	2%	30,927	11%	25,353	9%	42,518	16%	33,528	12%	4,499	2%	22,527	8%
Grand Total	7,881	3%	45,940	17%	34,839	13%	78,946	29%	96,343	36%	5,754	2%	56,546	21%



Table 27. W11 and W13 forested landbase seral-stage summary.

Species Strata	Clearing		Regen		Young		Immature		Mature		Old		Oldgrowthness	
	(Ha)	(%)	(Ha)	(%)	(Ha)	(%)	(Ha)	(%)	(Ha)	(%)	(Ha)	(%)	(Ha)	(%)
Deciduous Broad Cover Group (D)														
AW	2,098	1%	8,108	2%	4,344	1%	46,796	11%	61,325	15%	1,278	0%	28,420	7%
BW	5	0%	101	0%	84	0%	1,122	0%	60	0%	7	0%	34	0%
Total	2,103	1%	8,209	2%	4,428	1%	47,918	11%	61,386	15%	1,285	0%	28,453	7%
Deciduous / Coniferous Broad Cover Group (DC)														
AP	180	0%	1,373	0%	165	0%	2,316	1%	4,238	1%	68	0%	1,842	0%
AS	711	0%	2,136	1%	1,113	0%	4,921	1%	18,424	4%	117	0%	9,505	2%
Total	892	0%	3,508	1%	1,277	0%	7,237	2%	22,662	5%	186	0%	11,347	3%
Coniferous / Deciduous Broad Cover Group (CD)														
PA	251	0%	4,135	1%	1,347	0%	3,443	1%	3,872	1%	56	0%	2,462	1%
SA	879	0%	3,916	1%	4,731	1%	2,530	1%	13,156	3%	281	0%	7,169	2%
Total	1,130	0%	8,052	2%	6,078	1%	5,973	1%	17,028	4%	337	0%	9,631	2%
Coniferous Broad Cover Group (C)														
LT	-	0%	78	0%	2,183	1%	20,554	5%	7,481	2%	1,764	0%	4,047	1%
PL	551	0%	25,535	6%	7,192	2%	33,652	8%	14,934	4%	2,229	1%	12,373	3%
SB	3,668	1%	676	0%	33,189	8%	13,842	3%	17,045	4%	1,452	0%	7,321	2%
SW	1,934	0%	7,185	2%	1,167	0%	3,309	1%	18,106	4%	53	0%	4,725	1%
Total	6,152	1%	33,474	8%	43,731	10%	71,358	17%	57,567	14%	5,498	1%	28,467	7%
Grand Total	10,277	2%	53,243	13%	55,515	13%	132,485	32%	158,642	38%	7,306	2%	77,898	19%

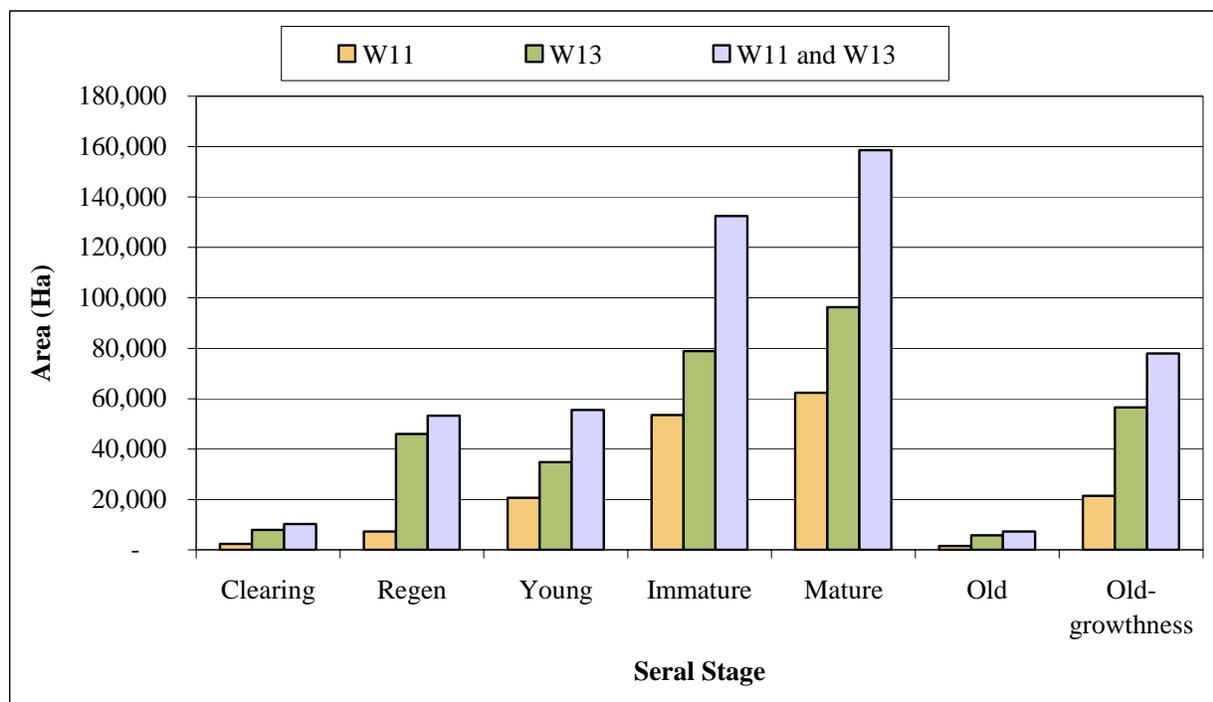


Figure 31. Forested Landbase seral stage distribution by FMU and combined FMUs.