

# appendices 2004/05

1. Trends in the area of native forest harvested
2. Area of State-owned coniferous plantations as at 31 December 2004
3. Area of State-managed broadleaved plantations as at 31 December 2004
4. Area of Commission-owned sandalwood (*S.spicatum*) plantations as at 31 December 2004.
5. Log production from crown land and private property 2004/05.
6. Native forest sawlog production by the Commission in 2004/05.
7. Native forest chiplog production.
8. Native forest fuel wood production.
9. WA sandalwood production from crown land.

## APPENDIX 1

### TRENDS IN THE AREA OF NATIVE FOREST HARVESTED

	JARRAH FOREST	JARRAH/WANDOO FOREST	KARRI FOREST	
			CLEARFELLED OR PARTIALLY CUT	THINNED
	ha	ha	ha	ha
1976-77	32,320	1,170	2,610	-
1977-78	26,020	740	4,450	-
1978-79	25,540	530	2,710	-
1979-80	25,150	860	2,110	60
1980-81	22,930	1,440	2,080	180
1981-82	24,680	610	2,180	320
1982-83	23,740	330	990	190
1983-84	21,540	580	1,490	260
1984-85	20,010	1,440	2,360	500
1985-86	22,640	650	1,590	340
1986	19,340	1,150	1,090	490
1987	17,180	1,380	1,310	700
1988	23,400	490	1,180	840
1989	15,130	200	1,510	910
1990	12,960	100	1,560	340
1991	10,910	-	1,920	230
1992	13,990	30	1,540	310
1993	14,250	40	1,630	80
1994	14,050	50	1,440	-
1995	17,830	30	2,410	-
1996	22,320	50	1,300	60
1997	18,240	60	1,870	60
1998	19,250	60	1,970	320
1999	14,200	50	1,890	360
2000	20,570	10	1,310	70
2001	*15,130	-	1,380	120
2002	*12,870	30	700	350
2003	8,520	-	720	485
2004	8,860	-	330	920

\*Note: figures do not include areas cleared for mining or utilities

## APPENDIX 2

### AREA OF STATE-OWNED CONIFEROUS PLANTATIONS AS AT 31 DECEMBER 2004

PYEAR	FPC-OWNED												FPC-MANAGED						TOTAL				
	Pinus Radiata						Other Pine						Grand Cumulative Total		Pinus Radiata		Other Pine		All Species				
	First Rotation			Replanted Areas			First Rotation			Replanted Areas			+S/F	S/F	All Rotations		First Rotation		+S/F	S/F	Year Total	Cumulative Total	
	+S/F	S/F	S/F	+S/F	S/F	S/F	+S/F	S/F	S/F	+S/F	S/F	+S/F			S/F	+S/F	S/F	+S/F					S/F
1959	142	-	-	12	-	154	-	3097	27	33	-	3130	27	-	-	-	-	3284	27	3284	27	3284	27
1960	26	-	-	3	-	183	-	245	-	-	-	3375	27	-	-	-	-	274	-	3558	27	3558	27
1961	43	-	-	-	-	226	-	381	-	3	-	3759	27	-	-	-	-	427	-	3985	27	3985	27
1962	47	-	-	-	-	273	-	323	-	-	-	4082	27	-	-	-	-	370	-	4355	27	4355	27
1963	40	-	-	-	-	313	-	241	-	-	-	4323	27	-	-	-	-	281	-	4636	27	4636	27
1964	31	-	-	-	-	344	-	443	-	17	17	4783	44	-	-	-	-	491	17	5127	44	5127	44
1965	60	-	-	9	-	413	-	386	-	3	-	5172	44	-	-	-	-	458	-	5585	44	5585	44
1966	50	-	-	6	-	469	-	637	-	2	-	5811	44	-	-	-	-	695	-	6280	44	6280	44
1967	31	-	-	-	-	500	-	843	-	-	-	6654	44	-	-	-	-	874	-	7154	44	7154	44
1968	59	6	5	16	-	575	6	1168	55	3	-	7825	99	-	-	-	-	1246	61	8400	105	8400	105
1969	161	5	-	-	-	736	11	1296	17	9	-	9130	116	-	-	-	-	1466	22	9866	127	9866	127
1970	146	-	-	-	-	882	11	1097	-	19	-	10246	116	-	-	-	-	1262	-	11128	127	11128	127
1971	292	-	-	1	-	1175	11	770	-	-	-	11016	116	-	-	-	-	1063	-	12191	127	12191	127
1972	510	3	4	4	-	1689	14	625	-	-	-	11641	116	-	-	-	-	1139	3	13330	130	13330	130
1973	402	-	-	51	-	2142	14	528	-	3	-	12172	116	-	-	-	-	984	-	14314	130	14314	130
1974	946	6	2	2	-	3090	20	309	-	-	-	12481	116	-	-	-	-	1257	6	15571	136	15571	136
1975	1032	73	-	-	-	4122	93	1173	-	-	-	13654	116	-	-	-	-	2205	73	17776	209	17776	209
1976	1408	84	5	5	-	5535	177	1118	-	1	-	14773	116	-	-	-	-	2532	84	20308	293	20308	293
1977	1309	9	33	33	-	6877	186	863	-	-	-	15636	116	-	-	-	-	2205	9	22513	302	22513	302
1978	1734	8	10	10	-	8621	194	495	-	-	-	16131	116	-	-	-	-	2239	8	24752	310	24752	310
1979	1273	2	402	402	-	10296	196	364	-	-	-	16495	116	-	-	-	-	2039	2	26791	312	26791	312
1980	1474	-	-	-	-	11770	196	744	-	-	-	17239	116	-	-	-	-	2218	-	29009	312	29009	312
1981	1353	-	113	113	-	13236	196	873	-	6	-	18118	116	-	-	-	-	2345	-	31354	312	31354	312
1982	1192	-	254	254	-	14682	196	463	-	5	-	18586	116	-	-	-	-	1914	-	33268	312	33268	312
1983	1256	-	36	36	-	15974	196	587	-	-	-	19173	116	-	-	-	-	1879	-	35147	312	35147	312
1984	1817	-	3	3	-	17794	196	505	-	9	-	19687	116	-	-	-	-	2334	-	37481	312	37481	312
1985	1643	48	121	121	-	19558	244	477	-	2	-	20166	116	-	-	-	-	2243	48	39724	360	39724	360
1986	1041	164	-	-	-	20599	408	481	-	-	-	20647	116	-	-	-	-	1522	164	41246	524	41246	524
1987	1296	631	155	155	-	22050	1039	643	-	21	21	21311	137	-	-	-	-	2115	652	43361	1176	43361	1176
1988	1566	1146	135	135	1	23751	2186	190	-	1	-	21502	137	-	-	-	-	1892	1147	45253	2323	45253	2323
1989	980	424	461	461	32	25192	2642	22	-	20	-	21544	137	-	-	-	-	1483	456	46736	2779	46736	2779

## APPENDIX 2 *continued*

### AREA OF STATE-OWNED CONIFEROUS PLANTATIONS AS AT 31 DECEMBER 2004

YEAR	FPC-OWNED						FPC-MANAGED						TOTAL							
	Pinus Radiata			Other Pine			Grand Cumulative Total			Pinus Radiata			Other Pine			All Species				
	First Rotation		Replanted Areas	First Rotation		Replanted Areas	Grand Cumulative Total		First Rotation		Replanted Areas	All Rotations		First Rotation		Year Total		Cumulative Total		
+S/F	S/F	+S/F	S/F	+S/F	S/F	+S/F	S/F	+S/F	S/F	+S/F	S/F	+S/F	S/F	+S/F	S/F	+S/F	S/F	+S/F	S/F	
1990	878	741	354	-	26424	3383	-	6	-	21550	137	-	-	-	1238	741	47974	3520		
1991	1271	1196	511	-	28206	4579	4	19	-	21573	137	-	-	-	1805	1196	49779	4716		
1992	1787	1781	508	-	30501	6360	118	344	-	22035	255	-	-	-	2757	1899	52536	6615		
1993	675	675	1017	-	32193	7035	141	6	309	22485	261	-	-	-	2142	681	54678	7296		
1994	539	396	526	13	33258	7444	-	-	372	22857	261	-	-	-	1437	409	56115	7705		
1995	99	95	1114	1	34471	7540	279	279	145	23281	540	-	-	-	1637	375	57752	8080		
1996	16	9	1189	-	35676	7549	770	599	31	24082	1139	-	-	-	2006	608	59758	8688		
1997	3	-	1137	-	36816	7549	1121	1121	176	25379	2260	-	-	16	2453	1137	62211	9825		
1998	87	75	79	-	36982	7624	1599	1598	-	26978	3858	-	-	288	2053	1961	64264	11786		
1999	49	17	819	-	37850	7641	2201	2197	184	29363	6055	-	-	449	3717	2678	67981	14464		
2000	203	197	1182	-	39235	7838	3955	3952	13	33331	10007	-	-	261	5633	4429	73614	18893		
2001	-	-	939	-	40174	7838	3010	3010	-	36341	13017	-	-	326	4275	3336	77889	22229		
2002	181	177	737	-	41092	8015	655	655	-	36996	13672	-	-	217	1790	1049	79679	23278		
2003	628	628	971	-	42691	8643	823	823	68	37887	14495	-	-	312	2802	1763	82481	25041		
2004	5	-	1249	-	43945	8643	1042	611	142	39071	15106	-	-	131	2569	742	85050	25783		
Grand Total	29781	8596	14164	47	43945	8643	37105	15068	1966	39071	15106	34	34	2000	85050	25783	85050	25783		

Note: 1959 Planting Year row includes the sum of all previous Planting

+ S/F = State Forest and share farms

S/F = Share Farms

## APPENDIX 3

### AREA OF STATE-MANAGED BROADLEAVED PLANTATIONS AS AT 31 DECEMBER 2004

FPC-OWNED			FPC-MANAGED					All Species			
E.globulus		Other Eucalypts		Owned by other Govt.	Privately owned		Year Total		Cumulative Total		
PYEAR	STATE+S/F	S/F	STATE+S/F	S/F	E.globulus	E.globulus	Other Eucs.	E.globulus	Other Eucs.	E.globulus	Other Eucs.
1987	10	-	6611	1	-	-	-	10	6611	10	6611
1988	99	99	11	-	-	-	-	99	11	109	6622
1989	38	38	2	-	-	-	-	38	2	147	6624
1990	52	32	25	-	-	-	-	52	25	199	6649
1991	-	-	38	-	-	-	-	-	38	199	6687
1992	204	196	-	-	-	-	-	204	-	403	6687
1993	62	62	6	-	-	-	-	62	6	465	6693
1994	12	12	2	-	-	-	-	12	2	477	6695
1995	3	-	-	-	-	-	-	3	-	480	6695
1996	163	-	3	3	-	486	-	649	3	1129	6698
1997	17	-	7	7	-	398	-	415	7	1544	6705
1998	89	64	5	5	-	1122	-	1211	5	2755	6710
1999	-	-	10	1	-	278	-	278	10	3033	6720
2000	57	57	31	2	-	492	-	549	31	3582	6751
2001	76	76	30	30	-	-	-	76	30	3658	6781
2002	27	27	485	483	-	55	-	82	485	3740	7266
2003	31	31	334	308	-	-	-	31	334	3771	7600
2004	1	1	738	594	-	-	-	1	738	3772	8338
<b>Grand Total</b>	<b>941</b>	<b>695</b>	<b>8338</b>	<b>1434</b>	<b>-</b>	<b>2831</b>	<b>-</b>	<b>3772</b>	<b>8338</b>	<b>3772</b>	<b>8338</b>

Note: 1987 Planting Year row includes the sum of all previous Planting

## APPENDIX 4

### AREA OF FPC OWNED SANDALWOOD (S.spicatum) PLANTATIONS AS AT 31 DECEMBER 2004

FPC-OWNED					FPC-MANAGED			
S.spicatum			Cumulative Total		S.spicatum		Cumulative Total	
PYEAR	STATE +S/F	S/F	STATE +S/F	S/F	STATE +S/F	S/F	STATE +S/F	S/F
1997	5	5	5	5	-	-	-	-
1998	-	-	5	5	19	19	19	19
2000	19	19	24	24	-	-	19	19
2001	48	48	72	72	-	-	19	19
2002	49	49	121	121	12	12	31	31
2003	74	74	195	195	22	22	53	53
2004	58	20	253	215	22	22	75	75
<b>Grand Total</b>	<b>253</b>	<b>215</b>	<b>253</b>	<b>215</b>	<b>75</b>	<b>75</b>	<b>75</b>	<b>75</b>

## APPENDIX 5

### LOG PRODUCTION FROM CROWN LAND AND PRIVATE PROPERTY 2004 - 2005

Type	Crown Land		Private Property		Total	
	(m <sup>3</sup> )	tonnes	(m <sup>3</sup> )	tonnes	(m <sup>3</sup> )	tonnes
<b>SAWLOG TIMBER*</b>						
Jarrah	150,651	196,326	-	-	150,651	196,326
Karri	65,111	80,736	-	-	65,111	80,736
Marri	4,838	6,000	-	-	4,838	6,000
Blackbutt	547	680	-	-	547	680
Wandoo	61	81	-	-	61	81
Sheoak	578	578	-	-	578	578
Other	4,291	5,322	-	-	4,291	5,322
<b>Total Native Forest Sawlogs</b>	<b>226,077</b>	<b>289,723</b>	<b>-</b>	<b>-</b>	<b>226,077</b>	<b>289,723</b>
Globulus	-	-	45	53	45	53
Mallet	136	162	-	-	136	162
<b>Total Plantation Hardwood Sawlogs</b>	<b>136</b>	<b>162</b>	<b>45</b>	<b>53</b>	<b>181</b>	<b>215</b>
Pinaster	131,135	131,135	95	95	131,230	131,230
Radiata	295,801	295,801	41,557	41,557	337,358	337,358
<b>Plantation Softwood Sawlogs and veneer logs</b>	<b>426,936</b>	<b>426,936</b>	<b>41,652</b>	<b>41,652</b>	<b>468,588</b>	<b>468,588</b>
<b>TOTAL SAWLOGS</b>	<b>653,149</b>	<b>716,821</b>	<b>41,697</b>	<b>41,705</b>	<b>694,846</b>	<b>758,526</b>
<b>OTHER LOG MATERIAL</b>						
Native Forests						
Chiplogs	139,468	165,353	-	-	139,468	165,353
Firewood/charcoal logs	128,720	142,744	-	-	128,720	142,744
Sandalwood	1,956	1,956	-	-	1,956	1,956
other*	11,092	13,355	-	-	11,092	13,355
<b>Sub-total Native Forest Other</b>	<b>281,236</b>	<b>323,408</b>	<b>-</b>	<b>-</b>	<b>281,236</b>	<b>323,408</b>
Plantation Hardwood						
Chiplogs***	-	-	8,773	9,621	8,773	9,621
Firewood/charcoal logs	605	605	-	-	605	605
other**	142	168	2	2	144	170
<b>Sub-total Hardwood Plantation</b>	<b>747</b>	<b>773</b>	<b>8,775</b>	<b>9,623</b>	<b>9,522</b>	<b>10,396</b>
Plantation Softwood						
Industrial wood	183,396	183,542	14,229	14,229	197,625	197,771
Woodchips	81,471	80,482	890	899	82,361	81,381
Other	19,470	19,470	-	-	19,470	19,470
Pine rounds	25,714	25,714	-	-	25,714	25,714
<b>Sub-total Plantation Softwood</b>	<b>310,051</b>	<b>309,208</b>	<b>15,119</b>	<b>15,128</b>	<b>325,170</b>	<b>324,336</b>
<b>Total Other Material</b>	<b>592,034</b>	<b>633,389</b>	<b>23,894</b>	<b>24,751</b>	<b>615,928</b>	<b>658,140</b>
<b>TOTAL LOG TIMBER</b>	<b>1,245,183</b>	<b>1,350,210</b>	<b>65,591</b>	<b>66,456</b>	<b>1,310,774</b>	<b>1,416,666</b>

\* Sawlog timber from all sources, including veneer, but not including chiplogs, particle board, industrial wood, firewood, fencing material, poles, piles and minor forest products.

\*\* includes poles, bridge timbers, burls, chopping logs, mining timber, pegging logs & fencing material

\*\*\* includes woodchips, includes logs from Crown land sold under Minor Production Contracts.

## APPENDIX 6

### NATIVE FOREST SAWLOG PRODUCTION BY THE COMMISSION IN 2004/05

PRODUCT TYPE	High Quality (m <sup>3</sup> )	1st & 2nd Sawlogs (m <sup>3</sup> )	Bole Log (m <sup>3</sup> )	Other Sawlogs (m <sup>3</sup> )	TOTAL (m <sup>3</sup> )
Jarrah	418	108,952	17,978	23,303	150,651
Karri	22	58,848	-	6,241	65,111
Marri	171	-	-	4,667	4,838
Other Species	4,201	614	87	575	5,477
<b>Total</b>	<b>4,812</b>	<b>168,414</b>	<b>18,065</b>	<b>34,786</b>	<b>226,077</b>
TONNES					
Jarrah	518	143,272	23,640	28,896	196,326
Karri	27	72,971	-	7,738	80,736
Marri	212	-	-	5,788	6,000
Other Species	5,190	762	115	594	6,661
<b>Total</b>	<b>5,947</b>	<b>217,005</b>	<b>23,755</b>	<b>43,016</b>	<b>289,723</b>

\* Includes logs from Crown Land sold under Minor Production Contracts

## APPENDIX 7

### NATIVE FOREST CHIPLOG PRODUCTION

PRODUCT TYPE	Crown land 2002 - 03 (m3)	(tonnes)	Crown land 2003 - 04 (m3)	(tonnes)	Crown land 2004 - 05 (m3)	(tonnes)
Marri	56,237	68,153	37,750	46,077	2,907	3,600
Karri	81,728	98,049	124,673	147,901	134,534	159,376
Other	-	-	-	-	2027	2377
<b>Total</b>	<b>137,965</b>	<b>166,202</b>	<b>162,423</b>	<b>193,978</b>	<b>139,468</b>	<b>165,353</b>

## APPENDIX 8

### NATIVE FOREST FUELWOOD PRODUCTION

Log Type	2002 - 03 (tonnes)	2003 - 04 (tonnes)	2004 - 05 (tonnes)
- Firewood logs	43,119	53,972	66,563
- Charcoal logs	66,627	58,127	76,181
<b>TOTAL</b>	<b>109,746</b>	<b>112,099</b>	<b>142,744</b>

## APPENDIX 9

### SANDALWOOD PRODUCTION FROM CROWN LAND

	2002-03 (tonnes)	2003-04 (tonnes)	2004-05 (tonnes)
Green	1,392	1,563	1,330
Dead	785	582	626
Bark	-	25	-
<b>Total</b>	<b>2,177</b>	<b>2,170</b>	<b>1,956</b>