



APPENDIX 2 – DATA TABLES

sustainable forest management



Forestry Tasmania

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The tables in this section support the statements made in the main report and provide a more detailed view of long-term trends.

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changes TO THE FOREST ESTATE DURING 2011/12

1.1 Changes to the forest estate during 2011/12

State forest ¹ – changes during 2011/12 (hectares):	
State forest created by land purchase	2
Net decrease of State forest resulting from gazetted changes to public land classifications	-1
State forest status removed through land sale	-20
Net decrease in the area of State forest	-19
Total area of State forest at 30 June 2012 ^{1,2}	1,490,000

Forest Reserves – changes during 2011/12 (hectares):	
Net increase in Forest Reserves	0
Total area of Forest Reserves at 30 June 2012 ²	222,000

Multiple-Use Forest (MUF) – changes during 2011/12 (hectares):	
Net decrease in MUF	-1
Total area listed on the Register of Multiple Use Forest Land at 30 June 2012 ²	1,247,000

AFS Defined Forest Area (DFA) – Extent of forested land that is managed by Forestry Tasmania and certified to the Australian Forestry Standard (AS4708). ³	
Defined Forest Area at 30 June 2012 ^{2,3}	1,505,000

Notes:

1. Excludes land managed by Forestry Tasmania in the Buckland Military Training Area.
2. Figures in the total rows are not the sum of the columns but the rounded actual totals.
3. This area excludes some leases over state forest, and joint venture and leasehold plantations that are not managed by Forestry Tasmania, but may be separately certified. It also includes waterbodies outside State forest, from which FT is licensed to collect and salvage floating and beached native softwood special timbers.

sustaining BIODIVERSITY AND HABITAT

2.1 Area of forest type by protection classification on state forest ¹ (hectares)

Forest type	2007/08		2008/09		2009/10		2010/11		2011/12		Change since 2001/02	
	Formal reserves	Informal reserves	Formal reserves	Informal reserves	Formal reserves	Informal reserves	Formal reserves	Informal reserves	Formal reserves	Informal reserves	Formal reserves	Informal reserves
Tall eucalypt forest	49,200	83,800	49,200	86,100	49,900	87,200	50,000	88,100	50,000	88,700	8,100	27,900
Short eucalypt forest	71,600	89,500	71,600	89,500	70,900	89,300	71,100	89,400	71,200	89,900	4,400	27,300
Rainforest	67,400	62,900	67,400	61,800	66,900	61,800	66,800	62,000	66,900	61,900	28,600	39,000
Other native forest	10,800	14,700	10,900	14,800	11,500	15,500	11,700	15,600	11,700	15,600	2,100	5,700
Non forest	23,100	44,200	23,000	45,400	22,500	44,900	22,300	45,500	22,100	45,100	3,800	8,500
Softwood plantation	100	200	100	100	100	200	0	100	0	0	-100	-170
Hardwood plantation	100	400	100	200	100	300	0	100	0	100	0	-50
Total ²	222,200	295,600	222,100	298,000	221,900	299,100	221,900	300,700	221,900	301,300	46,900	108,200

Notes:

• Change in forest type occurs due to continuous remapping as photo re-interpretation is undertaken, and increases in the extent of reserves.

1. Areas include crown land managed by Forestry Tasmania in the Buckland Military Training Area.

2. Figures in totals row are not the sum of the columns, but the rounded actual totals.

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2.2 Area protected on state forest ¹ (hectares)

Land classification state forest area	2007/08	2008/09	2009/10	2010/11	2011/12	(%) SF area at 30/06/12
Forest reserves	222,200	222,100	221,900	221,900	221,900	14.7%
Informal reserves	295,600	298,000	299,100	300,700	301,300	19.9%
Native forest outside wood production areas ^{2,3}	295,500	306,900	278,000	282,800	288,000	19.1%
Total non-production area ⁴	813,400	827,000	799,000	807,300	811,300	53.7%
Managed primarily for protection	54%	55%	53%	53%	54%	

Notes:

1. Areas include crown land managed by Forestry Tasmania in the Buckland Military Training Area.
2. Areas currently not part of the wood resource due to such factors as non-commercial forest, excessive slope, streamside reserves, inaccessibility, etc.
3. Reduction since 2009/10 is as a result of assigning area to the Special Timbers Zones.
4. Figures in totals row are not the sum of the columns, but the rounded actual totals.

2.3 Strategic threatened species management

	Flora	Fauna	Total
Habitat surveys (ha) ¹	5,011	36,212	41,223
New sites recorded	18	17	35

Notes:

1. Surveys conducted on state forest by qualified experts.

sustaining BIODIVERSITY AND HABITAT

2.4 Forest type by land classification – whole of Tasmania

Forest type ('000's hectares)	State forest (excl. Forest Reserves)	Forest Reserves	Conservation Reserves (<i>Nature Conservation Act 2002</i>)	Public Reserves (<i>Crown Lands Act 1976</i>)	Other publicly managed land ²	Other private land ³	Total area
Tall native Eucalypt forest: Eucalypt forest with current or potential height of 34 m or more	482	50	178	5	12	160	887
Short native Eucalypt forest: Eucalypt forest with current or potential height of less than 34 m	323	71	404	12	45	646	1,501
Rainforest: Cool temperate rainforest with no significant Eucalypt or Acacia spp.	136	67	330	0	5	17	555
Other native forest: Including Acacia, Melaleuca spp. etc.	56	12	49	1	4	31	153
Softwood plantation	52	0	0	0	0	23	76
Hardwood plantation	54	0	0	0	1	178	233
Non forest ¹ : Including scrub, moorland, farmland, rock and lakes	166	22	1,375	23	155	1,665	3,395
Total	1,268	222	2,336	43	221	2,720	6,810

Notes:

- All areas are rounded to thousands of hectares as at 30 June 2012. Figures in the Total rows are not the sum of the columns but the rounded actual totals.
 - The areas for forest are derived from detailed forest type mapping, which is continually updated. Generally, State forest mapping is updated annually, but remapping of other tenures is less frequent.
 - Areas reported in this table include land, inland waterbodies and islands. Sea and marine estuaries are excluded.
1. Because this table is derived from the spatial integration of several independently compiled datasets, some spatial discrepancies have been inherited. Areas where neither PFT nor FT forest data extend to the DPIPWE coastline are recorded as Non Forest.
 2. 'Other publicly managed land' includes land owned by, or vested in, the HEC and Commonwealth; municipal reserves; and private and municipal lands managed by the Wellington Park Management Trust.
 3. Private property forest areas are as advised by Private Forests Tasmania, and generally reflect forest mapping as at December 2011.

sustaining JOBS FOR CURRENT AND FUTURE GENERATIONS

3.1 Wood production by district 2011/12

Native forest	Bass	Derwent	Huon	Murchison	Total
Sawlog Cat. 1 & 3 (m ³)	23,359	48,903	27,720	7,624	107,606
Sawlog Cat. 2 & 8 (m ³)	25,719	3,554	636	12,103	42,011
Veneer (m ³)	67	1,987	271	16	2,340
Low grade export peeler log (tonnes)	1,437	66,342	73,078	16,464	157,321
High grade domestic peeler log (m ³)	23,860	56,847	191,308	100,451	372,466
Special species (m ³)	84	381	756	11,265	12,486
Pulpwood (tonnes)	172,990	50,737	33,774	57,536	315,037
Fuel & firewood (m ³)	1,243	65	4,876	4,750	10,935
Posts & poles (units)	817	466	2,682	374	4,339
Craftwood (units)	0	37	41	388	466
Minor products	89	34	5,092	158	5,372
Native Forest Total	249,664	229,354	340,231	211,131	1,030,380

Plantation	Bass	Derwent	Huon	Murchison	Total
Softwood sawlog (m ³)	9,392	8,266	0	1,272	18,930
Softwood export log (m ³)	12,449	4,638	178	0	17,266
Softwood roundwood (m ³)	0	0	0	0	0
Posts & poles (units)	222	0	0	130	352
Young eucalypt sawlog (m ³)	0	0	0	0	0
Softwood pulpwood (tonnes)	56,360	191,328	5,825	2,031	255,543
Eucalypt pulpwood (tonnes)	30,077	15,060	1,747	14,420	61,303
Plantation Total	108,500	219,292	7,750	17,853	353,394

Note:

- The softwood volumes reported no longer include those generated from the Taswood growing venture as FT divested its 50% stake in these plantations in December 2011.

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3.2 Wood volume and value summary

	2007/08		2008/09		2009/10		2010/11		2011/12	
Eucalypt wood production	Quantity	Estimated MDLV ² (\$)	Quantity	Estimated MDLV (\$)	Quantity	Estimated MDLV (\$)	Quantity	Estimated MDLV (\$)	Quantity	Estimated MDLV (\$)
Sawlog Cat. 1 & 3 (m ³)	297,915	28,301,925	238,925	23,175,725	205,422	20,542,200	189,915	19,561,245	107,606	11,083,418
Sawlog Cat. 2 & 8 (m ³)	87,090	6,096,300	60,689	4,308,919	37,897	2,766,481	48,532	3,639,900	42,011	3,108,814
Veneer (m ³)	6,036	784,680	6,229	822,228	5,117	695,912	6,787	950,180	2,340	339,300
Low grade export peeler log (tonnes)	88,694	7,006,826	22,235	1,778,800	74,669	6,197,527	112,795	9,587,575	157,321	6,292,840
High grade domestic peeler log (m ³)	120,896	8,100,032	193,429	13,153,172	224,432	15,710,240	318,597	19,115,820	372,466	23,092,892
Special species log (m ³)	21,703	2,474,142	12,496	1,449,536	12,350	1,482,000	14,477	1,795,148	12,486	1,598,208
Pulpwood (tonnes)	2,230,874	129,390,692	2,004,226	118,249,334	1,388,986	84,728,146	1,376,553	71,580,756	315,037	17,011,998
Hardwood plantation production	Quantity	Estimated MDLV (\$)	Quantity	Estimated MDLV (\$)	Quantity	Estimated MDLV (\$)	Quantity	Estimated MDLV(\$)	Quantity	Estimated MDLV(\$)
Sawlog (tonnes)	8,087	598,438	7,754	581,550	0	0	137	10,275	0	0
Pulpwood (tonnes)	176,703	11,485,695	135,549	8,946,234	179,495	12,205,660	171,205	11,984,350	61,303	4,107,301
Softwood plantation production ¹	Quantity	Estimated MDLV (\$)	Quantity	Estimated MDLV (\$)	Quantity	Estimated MDLV (\$)	Quantity	Estimated MDLV(\$)	Quantity	Estimated MDLV(\$)
Sawlog (tonnes)	98,456	7,581,102	68,185	5,318,439	54,203	4,336,254	66,184	5,427,109	18,930	1,097,940
Export logs (tonnes)	0	0	0	0	7,519	601,544	34,460	2,825,722	17,266	776,970
Roundwood (tonnes)	0	0	2,480	163,691	1,101	74,874	243	17,035	352	30,272
Pulpwood (tonnes)	137,657	8,947,695	138,406	9,134,808	191,974	13,054,252	240,274	16,819,174	255,543	18,399,096
Total	3,274,111	210,767,527	2,890,603	187,082,436	2,383,166	162,395,090	2,580,160	163,314,288	1,362,661	90,085,469

Note:

- Data for softwood plantations for the current and previous years do not include production from the former softwood joint venture (Taswood Growers).
- MDLV = Mill Door Landed Value, i.e. the estimated value of logs at mill door or, for export logs, "at wharf".

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3.3 Forestry estate value summary

Forest Estate ¹	2007/08 (\$ million)	2008/09 (\$ million)	2009/10 (\$ million)	2010/11 (\$ million)	2011/12 (\$ million)
Standing timber wholly owned	224.45	274.37	247.85	145.93	147.86
Standing timber joint ventures	105.31	110.92	70.89	91.10	0 ²
Roads and structures	111.03	115.29	114.65	116.75	116.14
Non-commercial zones			-65.8	-57.10	-55.30
Tourist infrastructure	9.77	4.98	4.81	4.80	4.80
Total	450.56	505.56	372.40	301.48	213.50

Note:

1. A different valuation methodology has been used since 2009/10, based on advice from Forestry Tasmania's independent international valuer. In particular, a liability has been recorded for forests managed predominantly for their non commercial uses.
2. The change reported reflects the sale of Forestry Tasmania's interest in the former softwood joint venture (Taswood Growers) during the period.

3.4 Pulpwood audit summary

	2007/08	2008/09	2009/10	2010/11	2011/12
Pulpwood sold (t)	2,230,874	2,005,448	1,388,986	1,547,759	376,340
Pulpwood audited (t)	156,016	158,559	69,400	120,063	11,192
Sawlog recovered (m ³)	59	169	139	110	0
Percent audited	7.0%	7.9%	5.0%	7.8%	3.0%
Sawlog recovery	0.04%	0.11%	0.20%	0.09%	0.00%

3.6 Native forest harvesting and regeneration treatment (hectares)

Native forest	2007/08	2008/09	2009/10	2010/11	2011/12
Area clearfelled	4,770	4,060	3,460	3,360	1,010
Area of partial harvesting ¹	7,960	8,080	5,070	6,980	1,540
Total	12,730	12,100	8,500	10,300	2,500
Area regenerated ^{2,3}	11,180	11,400	9,200	8,100	4,400

Notes:

- Areas include land managed by Forestry Tasmania in Buckland Military Training Area.
1. Excludes thinning.
 2. Regeneration treatments may not necessarily be undertaken in the year in which harvesting was completed.
 3. Refer to Table 3.9 for summary of regeneration success monitoring.

3.5 Merchantable residue assessment summary

Year	Number of coupes audited	Mean residues (m ³ /ha)	Median residues (m ³ /ha)
2007/08	93	1.97	1.60
2008/09	95	2.28	2.00
2009/10	82	2.06	2.00
2010/11	69	2.15	1.57
2011/12	45	24.77	5.49

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3.7 Plantation establishment (hectares)

SW: softwood HW: hardwood ¹ Ownership	New area planted ⁵ 2011/12		Area replanted ⁶ 2011/12		Net area of plantation at 30/6/2012		FT equity ⁸ at 30/6/2012	
	SW	HW	SW	HW	SW	HW	SW	HW
Forestry Tasmania (FT) plantation on State forest & Crown land	0	30	40	660	4,240	30,390	4,240	30,390
FT joint venture plantation on State forest & Crown land ²	10	0	220	220	7,240	7,470	7,240	7,470
FT joint venture plantation on private land	50	0	0	0	100	200	100	200
Tassie Trees Trust plantation on State forest ³	0	0	0	0	300	1,360	300	1,360
FT plantation on private land	0	0	0	0	0	750	0	750
Private plantation on State forest ⁷	0	0	800	20	40,590	15,420	0	0
Total 2011/12 ⁴	50	30	1,060	900	52,470	55,590	11,880	40,170
(Total 2010/11) ⁴	0	30	880	710	52,670	55,960	- ⁹	- ⁹

Notes:

- Planting period for mapping and reporting purposes is from 1 July 2011 to 30 June 2012.
 - Figures exclude plantation areas clearfelled but not yet re-planted.
 - Excludes former plantations which are now managed for recreation within Forest Reserves.
1. The majority of mixed hardwood/softwood plantations are reported as hardwood.
 2. Includes softwood plantations jointly owned with Norske-Skog, for which data are supplied by Norske-Skog as at 1 June 2012.
 3. Tassie Trees Trust plantations are mainly jointly-owned with private growers, but include small proportions owned solely by FT.
 4. Figures in the total rows are not the sum of the columns but the rounded actual totals.
 5. New plantings follow harvestings commenced prior to 31 December 2006, and recent plantings on agricultural land.
 6. Includes some areas planted to a different crop than the previous crop.
 7. Includes softwood plantations which are owned by New Forests P/L, for which data are supplied by Timberlands Limited as at 30 June 2012.
 8. Includes the total area of plantation in which FT has a financial equity in the trees.
 9. New statistic. Not previously reported.

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3.8 Plantation established on previously cleared native forest (i.e. where harvesting was initiated prior to 31/12/2007) (hectares)

State forest ¹	2007/08	2008/09	2009/10	2010/11	2011/12
Annual conversion	3,180	2,190	700	30	10 ³
Cumulative NF converted since 1996	46,330	48,520	49,220	49,250	49,320
Proportion of 1996 baseline statewide native forest ²	1.4%	1.5%	1.5%	1.5%	1.5%

Notes:

1. Areas include land managed by Forestry Tasmania in Buckland Military Training Area.
2. Native forest on all tenures, as mapped in 1996 (3.21 million ha baseline).
3. Degraded land planted with pine by Norske Skog.

3.9 Native forest regeneration success (hectares)

Forest Type	0-9% (not stocked)	10-39% (ecological stocking)	40-64% (low wood quality)	65-84% (optimum)	85-100% (maximum)	Total
Dry eucalypt ¹	0	41	1,189	985	287	2,503
Wet eucalypt ¹	0	0	148	1,516	710	2,374
High altitude <i>E. delegatensis</i> ¹	0	0	198	3,343	705	4,246
Fenced intensive blackwood ¹	0	0	0	132	111	244
Swamp blackwood ²	0	0	0	0	0	0
Rainforest ²	0	0	0	11	0	11
Huon pine forest ²	0	0	0	0	0	0
Total	0	41	1,535	5,988	1,814	9,377
				% Area met standard		96

Notes:

1. Reported three years after regeneration treatment.
2. Reported five years after regeneration treatment.

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3.10 Special timbers sawlog and craftwood production (tonnes)

	2007/08	2008/09	2009/10	2010/11	2011/12
Blackheart sassafras	621	500	90	277	109
Blackwood	11,137	8,901	7,962	11,259	11,201
Celery-top pine	1,427	881	882	2,181	305
Eucalypt/mixed species	6,389	1,735	2,883	534	267
Huon pine	620	354	423	613	637
King Billy pine	0	0	3	0	0
Myrtle	1,134	896	518	250	283
Silver wattle	480	262	92	19	94
White sassafras	139	15	34	9	42
Total	21,947	13,543	12,887	15,142	12,938

Note:

- Only includes special species grown in native forests.

3.11 Non-chemical browsing control summary

Treatment Type	2007/08	2008/09	2009/10	2010/11	2011/12
Number of control operations (number of coupes)	356	419	411	402	259
Number of coupes monitored ¹			489	420	433
Length of fencing (km)	14	32	17	1.4	18.7
Tree guards (number of coupes)	0	28	2	4	3
Stockings/sleeves (ha)	706	1,000	180	143	155

Note:

1. 2009/10 was the first year in which this number was recorded and reported.

3.12 Honey production summary ¹

Year	Total weight (kg)
2007/08	671,207
2008/09	210,061
2009/10	548,736
2010/11	214,942
2011/12	482,006

Note:

1. As reported by beekeepers to Forestry Tasmania.

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4.1 Soil conservation

Year	Unavailable for harvest due to erosion hazard (ha)	Number of landslips detected in the districts in year	Total area within district managed for soil values (ha)
2007/08	4,277	13	169,367
2008/09	4,289	6	166,323
2009/10	4,300	8	169,100
2010/11	4,378	6	171,160
2011/12	4,391	4	170,394

4.2 Geomorphology conservation

Year	Number of geomorphological sites identified	Area managed for geoconservation values (ha)
2007/08	42	120,413
2008/09	41	121,449
2009/10	94	124,200
2010/11	45	124,279
2011/12	36	123,808

4.3 Area of plantation identified as having moderate or severe damage (hectares)

Eucalyptus plantations:	2007/08		2008/09		2009/10		2010/11		2011/12	
	Moderate	Severe	Moderate	Severe	Moderate	Severe	Moderate	Severe	Moderate	Severe
Soil fertility/site issues	138	2,435	284	1,347	267	1,672	305	1,126	201	600
Insect damage	486	383	1,746	599	2,954	158	2,596	794	2,774	238
Multiple causes	106	878	247	1,038	150	1,078	832	2,238	787	3,728
Climate / environmental	73	701	58	47	309	303	307	390	178	41
Unknown	173	71	72	112	49	59	44	139	68	436
Silvicultural	20	251	14	28	0	25	32	135	0	42
Mammal damage	9	116	0	68	10	8	0	7	0	142
Fungal diseases	66	0	77	63	268	0	1,057	909	115	102
Weeds	0	97	99	48	0.5	19	31	2	0	52

sustaining CARBON STORES, CLEAN AIR, WATER AND HEALTHY FORESTS

4.4 Leaf beetle IPM system results

Leaf Beetle IPM System	2007/08	2008/09	2009/10	2010/11	2011/12 ¹
Area monitored (ha)	20,379	20,515	25,690	28,912	19,333
Area monitored that is above threshold (ha)	7,213	5,712	7,713	9,571	3,525
Area monitored above threshold treated with alpha-cypermethrin (ha)	6,299	3,526	5,939	5,576	2,361
Area monitored above threshold treated with spinosad (ha)	313	635	0	208	172
Total area treated (ha)	6,612	4,161	5,939	5,784	2,533
Area monitored above threshold-natural controls (ha)			1,269	1,313	892
Area monitored above threshold not treated (ha)	601	1,550	505	2,786	992
% monitored area sprayed	32%	20%	23%	0	13%
Proportion area sprayed with spinosad: cypermethrin	0.05	0.18	0.00	0	0.07

1. In the 2011/2012 season FT undertook a new management system for leaf beetle monitoring to account for an increasing problem of chronic defoliation of mid-rotation trees in high altitude areas. This system was not used by Gunns; therefore GLP (Gunns Lease Project) figures have been excluded from this year's results. Due to these changes it is difficult to compare the 2011/2012 season with previous years.

4.5 Pesticide usage on forestry operations¹ – by schedule

SUSDP Category ²	2008/09	2009/10	2010/11	2011/12
	Amount of active ingredient (kg)			
Unscheduled	563.7	2,708	276.1	138.4
Schedule 5	3,802.5	737.4	1,305.2	1,137.0
Schedule 6	479.6	244.4	1,123.6	534.2
Total chemical used	4,845.8	3,689.8	2,704.9	1,809.6
Area treated (ha)	5,494	5,083	5,858	3,374

Notes:

1. On Forestry Tasmania's Defined Forest Area.
2. SUSDP = Standard for the uniform scheduling of drugs and poisons.

4.6 Pesticide usage on forestry operations¹ – by chemical type

Pesticide type	2008/09	2009/10	2010/11	2011/12
	Amount of active ingredient (kg)			
Herbicide	3,831.9	2,444.4	1,355.7	1,127.7
Herbicide additive	505.1	206	226.6	138.9
Herbicide carrier	3.2	291.1	57	11.5
Insecticide	473.2	736	1,035	515.7
Pesticide additive	32.2	12.3	30.5	15.8
Total chemical used	4,845.6	3,689.8	2,704.8	1,809.6
Area treated (ha)	5,494	5,083	5,858	3,374

Note:

1. On Forestry Tasmania's Defined Forest Area.

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4.7 Fertiliser usage on forestry operations¹ – by nutrient type

	2008/09	2009/10	2010/11	2011/12
Nutrient Type	Amount of active ingredient (t)			
Nitrogen	438.8	567	315.9	47.6
Phosphorus	150.9	148.3	78.6	15.3
Potassium	11.5	0.03	0.65	0.90
Copper	3.9	1.6	0.03	0.00
Total chemical used	605.1	716.93	395.18	63.8
Area treated (ha)	8,872	8,543	5,589	1,589

Note:

1. On Forestry Tasmania's Defined Forest Area.

4.9 Pesticide usage at Perth nursery & seed orchards¹ – by chemical type

	2008/09	2009/10	2010/11	2011/12
Pesticide Type	Amount of active ingredient (kg)			
Fungicide	49.3	59.2	20	13.1
Herbicide	124.8	87	90.2	15.5
Herbicide additive	0.03	90.6	0.8	3.9
Insecticide	8	4	2.2	0.0
Pesticide additive	0.03	51.7	9.1	0.1
Total chemical used	182.16	292.5	122.3	32.6

Note:

1. Perth nursery & seed orchards are within Forestry Tasmania's Defined Forest Area.

4.8 Pesticide usage at Perth nursery & seed orchards¹ – by schedule

	2008/09	2009/10	2010/11	2011/12
SUSDP Category²	Amount of active ingredient (kg)			
Unscheduled	8.6	144.6	10.6	6.4
Schedule 5	134.2	127.9	84.3	24.6
Schedule 6	34.8	22	27.5	1.6
Schedule 7	4.5	0.03	0.03	0.0
Total chemical used	182.1	294.53	122.43	32.6

Note:

1. Perth nursery & seed orchards are within Forestry Tasmania's Defined Forest Area.
2. SUSDP = Standard for the uniform scheduling of drugs and poisons.

4.10 Fertiliser usage¹ at Perth nursery & seed orchards² – by nutrient type

	2008/09	2009/10	2010/11	2011/12
Nutrient Type	Amount of active ingredient (kg)			
Nitrogen	565.2	718.7	543.9	540.1
Phosphorus	189.6	499.8	317.4	29.4
Potassium	372.5	180.5	308.4	112.5
Calcium	311.7	103.4	76.7	26.5
Total chemical used	1,439.0	1,502.40	1,246.40	708.50

Notes:

1. Includes sales of potting mix to external customers.
2. Perth nursery & seed orchards are within Forestry Tasmania's Defined Forest Area.

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4.11 Water testing associated with spray operations

	2007/08	2008/09	2009/10	2010/11	2011/12
Number of samples taken associated with chemical spraying operations	489	196	99	81	56
Number of chemical detections	0	0	0	1	0
Percentage of chemical detections within ADWG Health Value ¹ for chemical residues ²	100%	100%	100%	100%	100%

Notes:

1. Australian Drinking Water Guidelines Health Value or any detection where no value indicated.
2. Measured by DPIPW testing laboratory.

4.12 Air quality particulate monitoring stations summary

	2007/08		2008/09		2009/10		2010/11		2011/12	
	Exceeded	FT contributed	Exceeded	FT contributed	Exceeded	FT contributed	Exceeded	FT contributed	Exceeded	FT contributed
Hobart	0	0	0	0	2	0	0	0	0	0
Launceston	7	1	3	0	12	0	10	0	0	0
George Town	n/a	n/a	0	0	4	0	4	0	1	0
Judbury	0	0	0	0	3	3	n/a	n/a	n/a	n/a
Total	7	1	3	0	21	3	14	0	1	0

Note:

- This table provides a summary of PM2.5 & PM10 exceedences recorded by the EPA each year. Figures for Judbury station have not been provided in 2010/11 and 2011/12 because the air quality monitoring equipment used to report against national standards is not operational.

sustaining SAFETY, COMMUNITY ACCESS AND HERITAGE

5.1 Summary of Aboriginal cultural heritage surveys

Year	Area surveyed (ha)	Number of new sites detected	Number of old sites redetected
2007/08	3,149	7	1
2008/09	211	1	0
2009/10	2,457	10	1
2010/11	756	5	2
2011/12	612	1	2

5.2 Non-Aboriginal cultural heritage management

Year	Area surveyed (ha)	Number of new sites detected	Number of old sites redetected
2007/08	333	34	26
2008/09	570	26	17
2009/10	875	91	25
2010/11	1,163	33	12
2011/12	568	16	14

5.3 Community forums and stakeholder meetings attended by our staff

Community forums and stakeholder meeting categories	No. meetings 2007/08	No. meetings 2008/09	No. meetings 2009/10	No. meetings 2010/11	No. meetings 2011/12
Fire management	34	34	33	26	21
Catchment management	24	23	20	20	16
Local emergency management	12	11	19	13	21
Education	46	49	75	39	26
TFIA ¹	-	-	-	-	70
Tasmanian Government ¹	-	-	-	-	102
Australian Government ¹	-	-	-	-	18
Local government	40	43	38	39	19
Cultural management	4	6	12	2	2
Biodiversity management	5	14	13	3	4
Feral animals/weeds	16	6	12	23	7
Industry	58	42	171	51	101
Recreation/tourism	118	80	97	54	54
Regional planning	17	45	45	21	33
Conservation/environmental	26	34	27	28	21
Forest practices	14	19	20	11	2
Other	35	59	166	27	74
Total	438	465	748	357	591

5.4 District sponsorship (cash and in-kind)

District Sponsorship (2011/12)	Value (\$)
Rotary/Lions Clubs	470
Raptor Refuge	820
Schools	2,900
Carnivals/Championships/Exhibitions/Shows	1,129
General Community Sponsorship	1,204
Other Sporting Groups	3,222
Total	9,745

Note:

- Figures are GST exclusive.

Note:

1. New category added in year 2011/2012

sustaining SAFETY, COMMUNITY ACCESS AND HERITAGE

5.5 Corporate sponsorship

Community Assist Program (2011/12)	Value (\$)
Tasmanian Special Children's Christmas Party	454
Eastern Shore Community House	909
Shorewell Park Kommunity Kids	909
Dover District High School	1,000
United Nations Youth Association of Tasmania	1,250
Launceston Mountain Bike Club	1,818
Tasmanian Sail Training Association	2,400
AUSTimber Conference	2,500
Royal Hobart Show	2,500
Cygnets Mini-League	3,500
Kilburn Netball Club	4,000
Tamar Canoe Club – Ben Lomond Descent	5,000
Evatt Trophy	5,000
Rosny College – Gifted and Talented Musical	5,000
Tasmanian Leaders – Skillsbank	5,000
Rotary Club of Hobart Charity Art Show	6,000
Derwent Valley Autumn Festival	8,000
Schools Triathlon Challenge	10,000
Football Federation Tasmania	30,000
Total	95,240

5.5 Corporate sponsorship (continued)

Other community service grants	Value (\$)
Timber Communities Australia Bioenergy Conference	809
Gottstein Trust	1,400
University of Tasmania	2,727
Design Forum Tasmania	20,000
Total	24,936

Research funding	Value (\$)
Warra	3,332
Bushfire CRC contribution	50,000
Fire Research Fund contribution	10,000
National Burning Project contribution	12,000
Total	75,332

Contributions to forest education	Value (\$)
Forest Education Foundation	204,000
Total	204,000
Grand Total	399,508

Notes:

- Figures are GST exclusive.

sustaining SAFETY, COMMUNITY ACCESS AND HERITAGE

5.6 Safety statistics

	2007/08	2008/09	2009/10	2010/11	2011/12
Number of direct employees ¹	523	547	513	424	383
Number of contractors	1,274	1,228	1,194	975	859
Operating revenue per employee (\$'000)	353	330	312	415	270
Earning before interest and tax per employee (\$'000)	21 ²	18 ²	(14)	(20)	(80)
Wood production per employee (m ³)	6,775	5,782	5,179	6,749	3,237
Number of workers compensation claims	33	33	19	19	16
% of gross wages	0.18	0.10	0.15	0.19	0.10
Lost time injury frequency rate (LTIFR)	11.36	12.54	8.56	9.5	5.68
All claims frequency rate	34.07	34.49	20.33	22.56	22.73
Lost time injury severity rate	8.77	9.98	14.88	10.45	6.66
Harvesting contractors LTIFR	17.63	17.92	7.37	6.9	2.82

Notes:

1. Number of staff employed, including Adventure Forests staff, not the number of full-time equivalents.
2. The statistics in 2007/2008 are not directly comparable with previous years due to changes in accounting policies.

sustaining SCIENCE-BASED STEWARDSHIP

6.1 Summary of compliance with *Forest Practices Act 1985*

	2007/08	2008/09	2009/10	2010/11	2011/12
Number of Forest Practices Plans in operation	1,838	1,732	2384	1,614	2,020
Written S41 notices issued to FT	0 (0%)	7 (0.4%)	0(0%)	0(0%)	2
S41 notices issued to contractors on state forest	7 (0.4%)	3 (0.17%)	1 (0.04%)	0(0%)	2
Fines or prosecutions issued to FT by FPA	1	0	1(\$1500)	1 (\$3,000)	0
Compliance certificates outstanding as reported by Forest Practices Authority (August) ¹	34 (92%)	0 (100%)	0(100%)	0 (100%)	0 (100%)
Number of breaches of EMPCA ²	0	0	0	0	0

NOTE:

1. Total percentage of certificates lodged, as reported in the FPA Annual Report.
2. *Environmental Management and Pollution Control Act 1994*.

6.2 Summary of compliance with *Workplace Health and Safety Act 1995*

	2007/08	2008/09	2009/10	2010/11	2011/12
S 38 Notices issued to Forestry Tasmania under Workplace Health and Safety Act ¹	3	1	0	1	0
S 36 Notices issued to Forestry Tasmania under Workplace Health and Safety Act ²	0	0	1	1	1

Note:

1. A Section 38 notice is a direction for an employer to take steps to remedy or alleviate a situation where the safety or health of persons in the workplace is endangered.
2. A Section 36 notice is a request from Workplace Standards for further information relating to the health and safety of persons at any workplace.

sustaining SCIENCE-BASED STEWARDSHIP

6.3 Audits of SFM systems

Year	Internal audit program		External audit program	
	No. of audits	Areas of concern	No. of audits	Areas of concern
2007/08	7	31	2	82
2008/09	8	46	3	85
2009/10	5	40	1	9
2010/11	9	96	1	9
2011/12	8	58	1	7

6.4 Research expenditure summary

	2007/08	2008/09	2009/10	2010/11	2011/12
Total spent on research (\$'000)	4,387	4,208	4,060	4,030	3,013
Net operating costs (\$'000)	141,052	140,527	136,143	146,677	131,566
As a % of forest management operational cost	3.1%	3.0%	3.0%	2.7%	2.3%
Number of (FTE) staff employed	37	35	32	30	31