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# changes TO THE FOREST ESTATE DURING 2013/14

### 1.1 Changes to the forest estate during 2013/14

Gazetted changes from State forest/Forest Reserves to Permanent Timber Production Zone land <sup>1</sup> (Forest Management Act, 2013) (hectares):						
Net decrease of State forest resulting from gazetted changes to public land classifications	- 1,490,000					
Net decrease in Multiple Use Forest (MUF) resulting from revocation of MUF	- 1,247,000					
Net decrease of Forest Reserves resulting from gazetted changes to public land classifications	- 222,000					
Net increase of Permanent Timber Production Zone land (PTPZL) resulting from gazetted changes to public land classifications	+1,172,000					
Total area of Permanent Timber Production Zone land at 30 Jun 2014 <sup>1</sup>	1,172,000					

#### Notes:

1. PTPZ land includes proposed Future Reserved land at 30th June 2014.



# sustaining BIODIVERSITY AND HABITAT

#### 2.1 Land reservation in Tasmania by Forest Type

	Tasmania			Publicly managed land <sup>3</sup>			PTPZ <sup>4</sup> land				
	Total Tasmania	Area res	served	Total publicly managed land	Area re	served	Total PTPZ land	Area res	served	Non- production	Production
Forest type <sup>1</sup> ('000's hectares)	(ha)	(ha)	%	(ha)	(ha)	%	(ha)	(ha)	%	(ha)	(ha)
<b>Tall native Eucalypt forest:</b> Eucalypt forest with current or potential height of 34 metres or more	889	459	52%	732	441	60%	431	149	35%	64	217
<b>Short native Eucalypt forest:</b> Eucalypt forest with current or potential height of less that 34 metres	1,499	741	49%	857	673	79%	308	154	50%	45	109
<b>Rainforest:</b> Cool temperate rainforest with no significant <i>Eucalypt or Acacia spp.</i>	554	497	90%	537	490	91%	125	81	65%	24	20
<b>Other native forest:</b> Including <i>Acacia, Melaleuca spp.</i> etc.	154	94	61%	124	90	73%	55	24	44%	18	13
Hardwood plantation	234	0	0%	58	0	1%	57	0	0%	1	56
Softwood plantation	76	0	0%	54	0	0%	53	0	0%	1	52
Non forest <sup>2</sup> : Including scrub, moorland, farmland, rock and lakes	3,393	1,590	47%	1,733	1,533	88%	143	73	51%	52	18
Total	6,799	3,381	50%	4,095	3,228	79%	1,172	482	41%	205	485

- All areas are rounded to thousands of hectares as at 30 June 2014. 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, mapping on PTPZ land is updated annually, but remapping of other tenures is less frequent.
- Areas reported in this table include land, inland waterbodies and islands. Macquarie Island, sea and marine estuaries are excluded.
- 1. Private property forest areas are as advised by Private Forests Tasmania, and generally reflect forest mapping as at December 2011.
- 2. 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 extends to the DPIPWE coastline are recorded as Non forest.
- 3. '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.
- 4. Permanent Timber Production land as defined under the Forest Management Act, 2013. This includes approximately 400,000 hectares of Future Reserve Land.



# sustaining BIODIVERSITY AND HABITAT

## 2.2 Area of MDC special management zones on land available for wood production<sup>1</sup> on PTPZ land

Special Value	Area (ha)
Biodiversity	24,280
Cultural heritage	10,580
Geoconservation values	43,050
Landscape	43,190

#### Notes:

 Area with special values reduced from 2012/13 reflecting transfer of lands to DPIPWE in accordance with legislative requirements.



#### 3.1 Wood production

Source	Product	2009/10	2010/11	2011/12	2012/13	2013/14
High quality sawlog (from native forest)	Appearance Grade Sawlog Cat 1 & 3 (m <sup>3</sup> )	193,179	179,399	99,789	109,198	114,054
	Construction Grade Sawlog Cat 1 & 3 (m <sup>3</sup> )	12,026	10,333	7,817	10,987	13,123
	Sliced Veneer Grade (m³)	5,117	6,787	2,340	747	1,082
	Total	210,322	196,519	109,946	120,932	128,259
Native forest products	Native forest Sawlog Cat. 2 & 8 (m <sup>3</sup> )	37,897	48,532	42,011	37,531	39,936
	Native forest Posts & poles (units)	6,672	6,090	4,339	2,302	4,584
	Native forest high grade domestic peeler (tonnes)	224,432	318,597	372,466	142,722	163,147
	Native forest low grade export peeler (tonnes)	74,669	112,795	157,321	89,156	17,470
	Native forest pulpwood (tonnes)	1,388,986	1,376,553	315,037	363,409	643,175
	Firewood (m³)	49,943	20,117	10,935	10,173	9,686
	Total	1,782,599	1,882,684	902,109	645,293	877,997
Hardwood plantation	Plantation Eucalypt Sawlog (tonnes)	0	138	0	0	0
	Plantation pulpwood (tonnes)	179,495	171,205	61,303	144,106	261,874
	Total	179,495	171,343	61,303	144,106	261,874
Softwood plantation	Softwood sawlogs	63,281	100,724	36,196	19,831	26,761
	Softwood pulpwood	193,583	244,380	255,895	99,583	69,595
	Total	256,864	345,104	292,091	119,414	96,356
Special timbers	Special timbers	12,879	15,142	12,953	10,712	9,199
Other products	(e.g. bark, sawdust)	2,909	3,086	5,372	19,216	12,324
Grand Total (tonnes)		2,445,068	2,613,878	1,383,775	1,059,673	1,386,010

- The softwood volumes reported no longer include those generated from the former Taswood growing venture as FT divested its 50% stake in these plantations in December 2011.
- Softwood volumes include volumes produced by private growers on Permanent Timber Production Zone land where Forestry Tasmania receives stumpage royalties.



### 3.2 Merchantable residue assessment summary

Year	Number of coupes audited	Mean residues (m³/ha)	Median residues (m³/ha)
2009/10	82	2.06	2.00
2010/11	69	2.15	1.57
2011/12	45	24.77	5.49
2012/13	27	10.76	9.40
2013/14	39	4.4	3.23

### 3.3 Native forest harvesting and regeneration summary (hectares)

Native forest	2009/10	2010/11	2011/12	2012/13	2013/14
Area clearfelled	3,460	3,360	1,010	2,190	1,020
Area of partial harvesting <sup>1</sup>	5,070	6,980	1,540	2,010	1,350
Total area harvested⁴	8,500	10,300	2,500	4,200	2,380
Area regenerated <sup>2,3</sup>	9,200	8,100	4,400	3,500	4,820

- 1. Excludes thinning.
- 2. Regeneration treatments are often undertaken in the year following the year in which harvesting was completed.
- 3. Refer to Table 3.6 for summary of regeneration success monitoring.
- 4. Totals are the rounded actual totals.



#### 3.4 Plantation area (hectares)

SW: softwood HW: hardwood <sup>1</sup>	Net ai plant		FT equity <sup>6</sup>	
Ownership	SW	HW	SW	HW
Forestry Tasmania (FT) plantation on PTPZ land <sup>1</sup>	2,836	32,093	2,832	32,058
FT joint venture plantation on PTPZ land 1,2	7,512	7,109	7,512	7,109
FT joint venture plantation on private land	98	197	98	197
Tassie Trees Trust plantation on PTPZ land <sup>3</sup>	305	1,293	305	1,293
FT plantation on private land	0	756	0	756
Private plantation on PTPZ land <sup>4</sup>	42,510	16,640	0	0
Total 2013/14	53,262	58,088	10,748	41,413
(Total 2012/13) <sup>5</sup>	53,034	55,762	11,835	41,357

- Figures exclude plantation areas clearfelled but not yet re-planted.
- The majority of mixed hardwood/softwood plantations are reported as hardwood.
- 1. Includes small areas of plantations on other Crown land (BMTA).
- 2. Includes softwood plantations jointly owned with Norske-Skog, for which data is supplied by Norske-Skog as at 1st June 2014.
- 3. Tassie Trees Trust plantations are mainly jointly-owned with private growers, but include small proportions owned solely by FT.
- 4. Includes softwood plantations which are owned by New Forests P/L, for which data is supplied by Timberlands Limited as at 30th June 2014.
- 5. Figures in the Total rows are not the sum of the columns but the rounded actual totals.
- 6. Includes the total area of plantation in which FT has a financial equity in the trees.



## 3.5 Plantation established on previously cleared native forest (i.e. where harvesting was initiated prior to 31/12/2006) (hectares)

State forest <sup>1</sup>	2009/10	2010/11	2011/12	2012/13	2013/14
Annual conversion	702	32	10 <sup>3</sup>	0	0
Cumulative NF converted since 1996	49,220	49,250	49,320	49,320	49,320
Proportion of 1996 baseline statewide native forest <sup>2</sup>	1.5%	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.

### 3.6 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 <sup>1</sup>		14	846	767	94	1,721	
Wet eucalypt <sup>1</sup>		54	78	1,488	653	2,273	
High altitude E. delegatensis <sup>1</sup>		0	42	2,649	728	3,420	
Fenced intensive blackwood 1		0	0	0	0	0	
Swamp blackwood <sup>2</sup>		0	0	0	0	0	
Rainforest <sup>2</sup>		0	0	0	0	0	
Huon pine forest <sup>2</sup>		0	0	0	0	0	
Total		68	966	4,904	1,476	7,414	
% Area met standard							

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



### 3.7 Special timbers sawlog and craftwood production (m³)

	2009/10	2010/11	2011/12	2012/13	2013/14
Blackheart Sassafras	90	277	109	221	174
Blackwood	7,962	11,259	11,201	9,178	8,124
Celery Top Pine	882	2,181	305	158	552
Eucalypt/Mixed Species	2,883	534	267	99	48
Huon Pine	423	613	637	460	0
King Billy Pine	3	0	0	0	0
Myrtle	518	250	283	543	30
Silver Wattle	92	19	94	17	85
White Sassafras	34	9	42	36	44
Craft Wood	-	-	-	-	142
Total	12,887	15,142	12,938	10,712	9,199

#### Note:

· Only includes special species grown in native forests.



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

Eucalyptus plantations:	2009	/10	2010	/11	2011	/12	2012	/13	2013	/14
	Moderate	Severe								
Soil fertility/site issues	267	1,672	305	1,126	201	600	15	984	52	529
Insect damage	2,954	158	2,596	794	2,774	238	4,479	1,117	3,866³	967³
Multiple causes	150	1,078	832	2,238	787	3,728	873	1,844	274	688²
Climate / environmental	309	303	307	390	178	41	0	83	101	51
Unknown	49	59	44	139	68	436	0	45	43	457 <sup>1</sup>
Silvicultural	0	25	32	135	0	42	0	24	0	88
Mammal damage	10	8	0	7	0	142	72	0	0	88
Fungal diseases	268	0	1,057	909	115	102	0	0.1	43	0
Weeds	0.5	19	31	2	0	52	19	9	27	1

- 1. The severe damage of unknown cause was primarily due to an emerging problem in mid rotation Eucalyptus globulus plantations. This is currently under investigation.
- 2. The continuing decrease in the "Multiple causes" category reflects the successful remediation of poor crown density caused by an interaction of leaf beetle and fungal defoliation, primarily in the northeast highlands.
- 3. This year's surveillance incorporated a proportion of private plantations on Permanent Timber Production Zone land. Around 27% of the area of insect damage was in these plantations including 31% of the severe damage. If these plantations are removed 2,849 ha of moderate damage and 665 ha of severe damage was recorded.



#### 4.2 Leaf beetle IPM system results

Leaf Beetle IPM System	2009/10	2010/11 <sup>1</sup>	2011/12 <sup>1</sup>	2012/13	2013/14
Area monitored (ha)	25,690	28,912	19,333	14,530	13,454
Area monitored that is above threshold (ha)	7,713	9,571	3,525	6,137 <sup>2</sup>	1,543³
Area monitored above threshold treated with alpha-cypermethrin (ha)	5,939	5,576	2,361	4,741	887
Area monitored above threshold treated with spinosad (ha)	0	208	172	0	0
Total area treated (ha)	5,939	5,784	2,533	4,741	1,4024
Area monitored above threshold- natural controls (ha)	1,269	1,313	892	341	0
Area monitored above threshold not treated (ha)	505	2,786	992	1,396	696
% monitored area sprayed	23%	20%	13%	33%	10%
Proportion area sprayed with spinosad: cypermethrin	0.00	0.04	0.07	0	0

- Results for years prior to 2011/12 also included Gunns Lease Project plantations on State forest that were managed for leaf beetles concurrently with Forestry Tasmania plantations.
- 2. The population threshold for initiating control operations was lowered to 'population-present' for 2,719 ha of plantations on high altitude sites in northern Tasmania that were suffering from chronically thin crowns.
- 3. While the threshold for chronically thin crowned coupes in high altitude sites was lowered, the threshold for initiating control operations on the majority of the estate was raised, in order to concentrate the protection effort over the most vulnerable or damaged coupes, and reduce insecticide use overall.
- 4. Total includes 442 ha that was sprayed without the insect population having reached threshold. Spraying is permitted in coupes where the insect population is below-threshold if they are in close proximity to over-threshold coupes and it is deemed necessary as part of risk management to control the insect population.



### 4.3 Non-chemical browsing control summary

Treatment Type	2009/10	2010/11	2011/12	2012/13	2013/14
Number of control operations (number of coupes)	411	402	259	241	296
Number of coupes monitored	489	420	433	469	334
Length of fencing (km)	17	1.4	18.7	19.9	0
Tree guards (number of coupes)	2	4	3	2	0
Stockings/sleeves (ha)	180	143	155	54	76

### 4.4 Pesticide useage in forestry field operations

Active ingredient	Туре	kg applied
Glyphosate	Herbicide	1,183.1
Triclopyr	Herbicide	44.3
Alpha cypermethrin	Insecticide	32.1
Clopyralid	Herbicide	21.7
Halixyfop - methyl	Herbicide	12.2
Mesulfuron methyl	Herbicide	7.9
Terbacil	Herbicide	7.0
Sulfometuron methyl	Herbicide	0.3
Picloram	Herbicide	0.2
Aminopyralid	Herbicide	0.1
Hexazinone	Herbicide	<0.1
Total active		1,309.0

### 4.5 Pesticide useage at FT nursery

Active ingredient	Туре	kg applied
Copper Hydroxide	Fungicide	1.33
Copper Oxide	Fungicide	0.30
Dicamba	Herbicide	0.90
Dichlobenil	Herbicide	0.001
Didecyl Dimethyl NH4Cl	Fungicide	0.41
Diuron	Herbicide	1.00
Fenhexamid	Fungicide	0.92
Glyphosate	Herbicide	17.70
Iprodione	Fungicide	0.91
Liquid hydrocarbons	Fungicide	1.21
Mancozeb	Fungicide	2.63
MCPA	Herbicide	4.35
Propamocarb	Fungicide	2.40
Thiram	Fungicide	1.44
Total active		47.1



#### 4.6 Fertiliser usage on forestry operations

	2009/10	2010/11	2011/12	2012/13	2013/14				
Nutrient Type		Amount of active ingredient (t)							
Nitrogen	567	315.9	47.6	18.2	56.9				
Phosphorus	148.3	78.6	15.3	7.9	3.1				
Potassium	0.03	0.65	0.90	0.5	0.5				
Copper	1.6	0.03	0.00	0	0				
Total	716.93	395.18	63.8	26.6	60.5				
Area treated (ha)	8,543	5,589	1,589	517	1,172				

### 4.7 Fertiliser usage at FT nursery & seed orchards

	2009/10	2010/11	2011/12	2012/13	2013/14
Nutrient Type					
Nitrogen	718.7	543.9	540.1	91.0	100.1
Phosphorus	499.8	317.4	29.4	25.0	35.3
Potassium	180.5	308.4	112.5	50.9	61.8
Calcium	103.4	76.7	26.5	25.8	42.8
Total	1,502.4	1,246.4	708.5	192.7	240

### 4.8 Water testing associated with pesticide spray operations

	2009/10	2010/11	2011/12	2012/13	2013/14
Number of operations sampled <sup>1</sup>	-	-	-	18	9
Number of samples taken associated with chemical spraying operations	99	81	56	51	26
Number of detections and percentage of no chemical detections against ADWG Health Value <sup>2</sup> for chemical residues <sup>3</sup>	(0) 100%	(1) 100%	(0) 100%	(0) 100%	(0) 100%

- 1. Reporting of this statistic began in 2012/13
- 2. Australian Drinking Water Guidelines Health Value or any detection where no value indicated.
- 3. Measured by DPIPWE testing laboratory.



## 4.9 Summary of energy useage and resulting CO<sub>2</sub>-equivalent emissions as a result of fuel used for transport and electricity useage within our offices

Source	Usage	CO <sub>2</sub> -e <sup>1</sup>
Unleaded	38,303 litres	91,173
Diesel	577,047 litres	1,556,954
Oil	7,772 litres	22,697
Electricity	1,407,425 kilowatt hours	281,485
Total		1,952,309

#### Notes:

Calculated with Australian Government Department of Climate Change, 2014.
National Greenhouse Accounts Factors, www.climatechange.gov.au

#### 4.10 Air quality particulate monitoring stations summary<sup>4</sup>

Station type	2	009/10	2	010/11	20	011/12	201	12/13	20 <sup>-</sup>	13/14
	Exceeded	FT Contributed	Exceeded	FT Contributed	Exceeded	FT Contributed	Exceeded	FT Contributed	Exceeded	FT Contributed
Reference station	21	3	14	0	1	0	Not available <sup>1</sup>	Not available <sup>1</sup>	Not available <sup>1</sup>	Not available <sup>1</sup>
Real time indicative monitoring stations <sup>2,3</sup>	N/A	N/A	N/A	N/A	N/A	N/A	90	2	45	1

Note: This table provides a summary of PM2.5 & PM10 exceedences recorded by the EPA each year.

- 1. Reference station data was not analysed by EPA at time of publication.
- 2. Analysis of real time monitoring exceedences began in 2012/13.
- 3. Exceedence data is indicative only due to measuring technique employed at station.
- 4. Data from between March to June 2014 only.

### 4.11 Smoke complaints issued to EPA

Year	2011/12	2012/13	2013/14
Number of Complaints received by EPA	83	21	11
Contributed to by FT	42	11	6



## sustaining SAFETY, COMMUNITY ACCESS AND HERITAGE

### 5.1 Safety statistics

	2009/10	2010/11	2011/12	2012/13	2013/14
Number of direct employees <sup>1</sup>	513	424	383	351	295
Number of workers compensation claims	19	19	16	15	13
% of gross wages spent on claims <sup>2</sup>	0.15	0.19	0.10	0.07	0.13
Lost time injury frequency rate (LTIFR)	8.56	9.5	5.68	4.46	5.1
All claims frequency rate	20.33	22.56	22.73	22.31	22.08
Lost time injury severity rate	14.88	10.45	6.66	1.97	5.27
Harvesting contractors LTIFR	7.37	6.9	2.82	11.60	14.33

#### Notes:

- 1. Number of staff employed, including Adventure Forests staff, not the number of full-time equivalents.
- 2. Claims recorded in respective financial year only.

#### 5.2 Forest activity assessments on Permanent Timber Production Zone land

Activity type	Number of assessments 2013/14
Commercial	2
Community access	2
Fire management	1
Flora collection	4
Infrastructure	10
Land management	6
Leases	6
Recreation	27
Research	16

## 5.3 Summary of Aboriginal cultural heritage surveys

Year	Number of new sites detected	Number of old sites redetected
2009/10	10	1
2010/11	5	2
2011/12	1	2
2012/13	1	0
2013/14	0	0

Note: The figures do not include desktop survey assessments.

### **5.4 Non-Aboriginal cultural heritage management**

Year	Number of new sites detected	Number of old sites redetected
2009/10	91	25
2010/11	33	12
2011/12	16	14
2012/13	20	6
2013/14	4	2



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# sustaining SAFETY, COMMUNITY ACCESS AND HERITAGE

#### 5.5 Stakeholder interaction summary

Stakeholder Groups	Events	Stakeholders
Community	258	340
Neighbours	119	168
Commercial users	111	76
Environmental	110	116
State	94	162
Recreational	94	99
Industry	81	92
Tourism	57	56
Business	57	78
Scientific	48	95
Local	46	343
Customers	39	149
Aboriginal	35	65
Educational	23	69
Contractors	21	40
Media	10	17
Federal	6	22
Suppliers	5	16
Total	799	1,670

#### Notes:

Does not include routine operational notifications. Data collection commenced September 2013.

### 5.6 Corporate sponsorship

Community Sponsorship	Value (\$)
Derwent Valley Autumn Festival	8,000
Timber Communities Australia	20,000
Australasian Fire and Emergency Service Authorities Council (FFMG Projects)	5,000
National Foresters Grove	2,750
Research Funding	
University of Tasmania	10,000
AFPA (Fuel Reduction Study)	3,000
University of Tasmania (Warra)	2,000
Contributions to Forest Education	
Forest Education Foundation	204,000
District Sponsorships	
Riverside Lions (Magic Show)	100
Rotary Club of Central Launceston (Circus Quirkus)	100
TOTAL	254,950

Note: Figures are GST exclusive



# sustaining SCIENCE-BASED STEWARDSHIP

### 6.1 Summary of compliance with Forest Practices Act 1985

	2009/10	2010/11	2011/12	2012/13	2013/14
Number of FPPs certified	Not collected	Not collected	Not collected	137	208
Written S41 notices issued to FT	0(0%)	0(0%)	2	2	0
S41 notices issued to contractors on State forest	1 (0.04%)	0(0%)	2	2	2
Fines or prosecutions issued to FT by Forest Practices Authority	1(\$1500)	1 (\$3,000)	0	0	1(\$500)
Compliance certificates outstanding as reported by Forest Practices Authority (August) <sup>1</sup>	0(100%)	0 (100%)	0 (100%)	0 (100%)	0(100%)
Number of breaches of EMPCA <sup>2</sup>	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 Work Health and Safety Act 2012

Year	2013/14
S.191 Improvement Notice	1
S.195 Prohibition Notice	1
S.198 Non-disturbance Notice	0

### **6.3 Audits of Sustainable Forest Management Systems**

Year	Internal audit program	External audit program
	Number of audits	Number of audits
2009/10	5	1
2010/11	9	1
2011/12	8	1
2012/13	6	1
2013/14	7	2

### 6.4 Research expenditure summary

	2009/10	2010/11	2011/12	2012/13	2013/14
Total spent on research (\$'000)	4,060	4,030	3,013	2,562	2,184
Net operating costs (\$'000)	136,143	146,677	131,566	98,275	145,694
As a % of forest management operational cost	3.0%	2.7%	2.3%	2.6%	1.5%
Number of staff employed	32	30	31	19	17

