



annual report  
supplementary data tables  
2015/16

PROUDLY GROWING TASMANIAN TIMBER



Forestry Tasmania





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The tables in this document support the statements made in Forestry Tasmania's Annual Report 2015/16. The section numbering below aligns with the chapters in the Annual Report.

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# 1 Make available agreed wood volumes to underpin a sustainable Tasmanian forest industry

## 1.1 Land reservation in Tasmania by Forest Type

	Tasmania			Publicly managed land <sup>3</sup>			PTPZ <sup>4</sup> land				
	Total Tas	Area reserved		Total publicly managed land	Area reserved		Total PTPZ land	Area reserved		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	891	450	51%	741	442	60%	335	47	14%	67	222
<b>Short native Eucalypt forest:</b> Eucalypt forest with current or potential height of less than 34 metres	1,501	737	49%	858	672	78%	184	34	18%	45	106
<b>Rainforest:</b> Cool temperate rainforest with no significant <i>Eucalypt</i> or <i>Acacia</i> spp.	554	490	88%	537	489	91%	62	17	28%	25	20
<b>Other native forest:</b> Including <i>Acacia</i> , <i>Melaleuca</i> spp. etc.	155	92	59%	125	90	72%	39	8	20%	18	13
<b>Hardwood plantation</b>	230	1	0%	59	1	1%	57	0	1%	2	55
<b>Softwood plantation</b>	80	0	0%	59	0	1%	57	0	0%	1	56
<b>Non forest <sup>2</sup>:</b> Including scrub, moorland, farmland, rock and lakes	3,387	1,557	46%	1,757	1,530	87%	78	15	19%	50	13
<b>Total</b>	<b>6,799</b>	<b>3,327</b>	<b>49%</b>	<b>4,137</b>	<b>3,224</b>	<b>78%</b>	<b>812</b>	<b>121</b>	<b>15%</b>	<b>207</b>	<b>484</b>

### Notes:

- All areas are rounded to thousands of hectares as at 30 June 2015. 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 (PFT), and generally reflect forest mapping as at December 2014.
  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 Department of Primary Industries, Parks, Water and Environment (DPIPWE) coastline are recorded as Non forest.
  3. "Publicly managed land" includes land owned by, or vested in, the Hydro Tasmania, Forestry Tasmania and Commonwealth & Tasmanian Governments; municipal reserves; and municipal and private lands managed by the Wellington Park Management Trust.
  4. Permanent Timber Production Zone land as defined under the Forest Management Act, 2013.

# 1 Make available agreed wood volumes to underpin a sustainable Tasmanian forest industry

## 1.2 Area of special management zones in wood production areas on PTPZ land

Special Value	Area (ha)
Biodiversity	23,100
Cultural heritage	10,530
Geoconservation values	43,810
Landscape	43,240

Notes:

- Rounded to nearest 10 hectares.
- An area may hold multiple special values.
- Special management zones are defined as per Forestry Tasmania's Management Decision Classification system.

## 1.3 Plantation area (hectares)

SW: softwood HW: hardwood Ownership	Net area of plantation	
	SW	HW
Forestry Tasmania (FT) plantation on PTPZ land <sup>1</sup>	2,607	45,021
FT joint venture plantation on PTPZ land <sup>1,2</sup>	7,622	6,654
FT joint venture plantation on private land	97	159
Tassie Trees Trust plantation on PTPZ land <sup>3</sup>	306	648
FT plantation on private land	3	374
Private plantation on PTPZ land <sup>4</sup>	42,649	4,251
<b>Total 2015/16 <sup>5</sup></b>	<b>53,284</b>	<b>57,108</b>
(Total 2014/15) <sup>5</sup>	53,657	56,016

Notes:

- 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 (Buckland Military Training Area).
2. Includes softwood plantations jointly owned with Norske-Skog, for which data is supplied by Norske-Skog as at 1st June 2016.
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 2016.
5. Figures in the total rows are not the sum of the columns but the rounded actual totals.

# 1 Make available agreed wood volumes to underpin a sustainable Tasmanian forest industry

## 1.4 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	0	0	60	210	9	279
Wet eucalypt	0	0	0	1,178	314	1,492
High altitude <i>E. delegatensis</i>	0	0	0	1,153	71	1,223
<b>Total</b>	<b>0</b>	<b>0</b>	<b>60</b>	<b>2,541</b>	<b>394</b>	<b>2,994</b>
				% Area met standard		100%



## 3 Sustainably manage Tasmania's public production forests to maintain wood resources and other environmental, cultural and economic values

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

Eucalyptus plantations:	2012/13		2013/14		2014/15		2015/16	
	Moderate	Severe	Moderate	Severe	Moderate	Severe	Moderate	Severe
Soil fertility/site issues	15	984	52	529	25	303	0	8
Insect damage	4,479	1,117	3,866	967	1,340	272 <sup>1</sup>	1,334	55 <sup>1</sup>
Multiple causes	873	1,844	274	688	835	1,070 <sup>2</sup>	1,545	409
Climate / environmental	0	83	101	51	128	72	74	38
Unknown	0	45	43	457	0	9	20	0
Silvicultural	0	24	0	88	0	0	0	0
Mammal damage	72	0	0	88	0	0	0	0
Fungal diseases	0	0.1	43	0	232	570 <sup>2</sup>	156	0
Weeds	19	9	27	1	111	1	0	1

Notes:

1. The summers of 2014/15 and 2015/16 saw the lowest leaf beetle populations on record with consequently reduced areas of damage.
2. There was a localized region in the northeast of the state which experienced a very wet summer resulting in an outbreak of defoliating fungal pathogens. This also contributed to the increase in the area of damage due to multiple causes. In 2015/16 we have seen good recovery from the outbreak.

## 3 Sustainably manage Tasmania's public production forests to maintain wood resources and other environmental, cultural and economic values

### 3.2 Leaf beetle IPM system results

Leaf beetle IPM system	2011/12	2012/13	2013/14	2014/15	2015/16
Area monitored (ha)	19,333	14,530	13,454	11,288	9,291
Area monitored that is above threshold (ha)	3,525	6,137	1,543	737	779
Area monitored above threshold treated with alpha-cypermethrin (ha)	2,361	4,741	887	451	558
Area monitored above threshold treated with spinosad (ha)	172	0	0	0	0
Total area treated (ha) <sup>1</sup>	2,533	4,741	1,402	451	768
Area monitored above threshold-natural controls (ha)	892	341	0	58	103
Area monitored above threshold not treated (ha)	992	1,396	696	228	118
% monitored area sprayed	13%	33%	10%	4%	8%
Proportion area sprayed with spinosad: cypermethrin	0.07	0	0	0	0

Notes:

1. 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. Total area treated includes both over-threshold and below-threshold areas that were treated.



## 3 Sustainably manage Tasmania's public production forests to maintain wood resources and other environmental, cultural and economic values

### 3.3 Pesticide usage in forestry field operations

		2013/14	2014/15	2015/16
Active ingredient	Type	kg applied	kg applied	kg applied
Glyphosate	Herbicide	1,183.1	1,489.6	1357.1
Triclopyr	Herbicide	44.3	5.4	75
Alpha cypermethrin	Insecticide	32.1	11	18.8
Clopyralid	Herbicide	21.7	0.7	0.075
Halixytop - methyl	Herbicide	12.2	0	0
Mesulfuron methyl	Herbicide	7.9	4.8	5.2
Terbacil	Herbicide	7.0	0	0
Sulfometuron methyl	Herbicide	0.3	0	0
Picloram	Herbicide	0.2	0.8	0
Aminopyralid	Herbicide	0.1	0.7	0
Hexazinone	Herbicide	<0.1	0	0.12
Permethrin	Herbicide	0	0.2	0
<b>Total active</b>		<b>1,309.0</b>	<b>1,513.3</b>	<b>1456.3</b>

### 3.4 Fertiliser usage on forestry operations<sup>1</sup> - by nutrient type

	2011/12	2012/13	2013/14	2014/15	2015/16
Nutrient type	Amount of active ingredient (t)				
Nitrogen	47.6	18.2	56.9	7.7	0.66
Phosphorus	15.3	7.9	3.1	0.25	0.145
Potassium	0.90	0.5	0.5	0.71	0.41
Copper	0.00	0	0	0	0
<b>Total</b>	<b>63.8</b>	<b>26.6</b>	<b>60.5</b>	<b>8.6</b>	<b>1.2</b>
Area treated (ha)	1,589	517	1,172	405	184

Note:

1. On Forestry Tasmania's Defined Forest Area.

### 3 Sustainably manage Tasmania's public production forests to maintain wood resources and other environmental, cultural and economic values

#### 3.5 Summary of energy useage and resulting CO2-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	7,763 litres	17,953
Diesel	378,744litres	1,029,360
Oil	3,850 litres	11,352
Electricity	1,514,882 kilowatt hours	181,786
<b>Total</b>		<b>1,240,451</b>

Notes:

1. Estimates based on Australian Government Department of Climate Change, 2016. National Greenhouse Accounts Factors, [www.climatechange.gov.au](http://www.climatechange.gov.au)

## 4 Actively engage with stakeholders to build trust and inform decision making

### 4.1 Stakeholder interaction summary

Stakeholder Groups	2013/14		2014/15		2015/16	
	Events	Stakeholders	Events	Stakeholders	Events	Stakeholders
Community	258	340	495	691	252	834
Neighbours	119	168	146	236	138	321
Commercial Users	111	76	121	178	118	212
Recreational	94	99	120	189	131	265
Environmental	110	116	112	149	79	175
State government	94	162	72	219	67	240
Industry	81	92	66	140	48	167
Tourism	57	56	52	87	74	139
Local government	46	343	41	253	44	360
Scientific	48	95	39	112	36	125
Customers	39	149	34	162	22	169
Business	57	78	32	103	38	129
Educational	23	69	29	93	35	380
Contractors	21	40	25	121	18	126
Aboriginal	35	65	19	63	10	64
Media	10	17	13	25	14	30
Suppliers	5	16	13	25	12	27
Federal government	6	22	7	25	18	29
<b>Total</b>	<b>799</b>	<b>1670</b>	<b>978</b>	<b>2,326</b>	<b>657</b>	<b>3,039</b>

Notes:

Does not include routine operational notifications.

Data collection commenced September 2013.

### 4.2 Education, research and community funding

Contributions to forest education	value (\$)
Forest Education Foundation	204,000
Research funding	
University of Tasmania	80,000
University of Sunshine Coast	5,000
State Fire Commission (Contribution to Bushfire CRC Program)	30,600
Community sponsorship	
Design Centre Tasmania	20,000
Timber Communities Australia	10,000
Tasmanian Symphony Orchestra	9,674
<b>Total</b>	<b>359,274</b>

Note: Figures are GST exclusive



## 6 Provide a safe, healthy and productive workplace

### 6.1 Safety statistics

	2011/12	2012/13	2013/14	2014/15	2015/16
Number of staff (head count)	383	351	295	241	208 <sup>1</sup>
Number of workers compensation claims	16	15	13	21	6
% of gross wages spent on claims	0.10	0.07	0.13	0.13	0.02
Lost time injury frequency rate (LTIFR)	5.68	4.46	5.1	19.61	2.41
Medical Treatment Injury Frequency Rate (MTIFR) <sup>2</sup>	n/a	n/a	n/a	n/a	12.04
Harvesting contractors LTIFR	2.82	11.60	14.33	11.84	8.16

Note:

1. Includes Tahune AirWalk staff numbers (head count = 25).
2. FT has reviewed the safety statistics we use and decided the Medical Treatment Injury Frequency Rate (MTIFR) is a better measure than Lost time injury severity rate or All claims frequency rate.

provide a safe, healthy and productive workplace