annual report supplementary data tables 2014/15

6

Proudly growing Tasmanian timber



contents

The tables and graph in this document support the statements made in Forestry Tasmania's Annual Report 2014/15. The section numbering below aligns with the chapters in the Annual Report.

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1.1 Changes to the forest estate during 2014/15

| Gazetted changes to Permanent Timber Production Zone land (hectares): | |
|---|----------|
| Net decrease of Permanent Timber Production Zone land ¹ (PTPZL) resulting from gazetted changes to public land classifications | -350,000 |
| PTPZ land created by land purchase | 0 |
| PTPZ land removed through land sale | 7 |
| Total area of Permanent Timber Production Zone land at 30 Jun 2015 ¹ | 812,000 |

Notes:

1. Areas indicative only. Major remapping of all tenures between and adjoining FPPF and PTPZ land was carried out by DPIPWE in 2014/15 after final proclamations, resulting in variation to tenure figures.

1.2 Land reservation in Tasmania by Forest Type

| | Tasmania | | | Publicly m | anaged | land ³ | PTPZ ⁴ land | | | | |
|---|--------------|---------|-------------|--------------------------------------|--------------|-------------------|------------------------|------------|-----|--------------------|------------|
| | Total Tas | Area re | served | Total publicly managed land | Aro resei | | Total PTPZ land | Ar rese | | Non- production | Production |
| Forest type ¹ ('000's hectares) | (ha) | (ha) | % | (ha) | (ha) | % | (ha) | (ha) | % | (ha) | (ha) |
| Tall native Eucalypt forest: Eucalypt forest with current or potential height of 34 metres or more | 898 | 449 | 50% | 737 | 441 | 60% | 332 | 46 | 14% | 65 | 220 |
| Short native Eucalypt forest: Eucalypt forest with current or potential height of less that 34 metres | 1,555 | 735 | 47% | 860 | 672 | 78% | 188 | 33 | 18% | 45 | 110 |
| Rainforest: Cool temperate rainforest with no significant <i>Eucalypt or Acacia spp.</i> | 565 | 491 | 87% | 538 | 489 | 91% | 62 | 17 | 28% | 25 | 20 |
| Other native forest: Including <i>Acacia,</i> <i>Melaleuca spp.</i> etc. | 161 | 92 | 57% | 124 | 90 | 72% | 39 | 8 | 20% | 18 | 13 |
| Hardwood plantation | 110 | 0 | 0% | 56 | 0 | 0% | 55 | 0 | 0% | 1 | 55 |
| Softwood plantation | 78 | 0 | 0% | 54 | 0 | 0% | 54 | 0 | 0% | 1 | 53 |
| Non forest ² : Including scrub, moorland, farmland, rock and lakes | 3,431 | 1559 | 45% | 1,767 | 1,533 | 87% | 84 | 16 | 19% | 52 | 17 |
| Total | 6,799 | 3,327 | 49 % | 4,137 | 3,226 | 78% | 812 | 121 | 15% | 205 | 486 |

Notes:

 Major remapping including tenures between FPPF and PTPZ boundaries was carried out by DPIPWE 2014/15, resulting in variation in tenure and reservation figures.

• 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, and generally reflect forest mapping as at December 2013.

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, Hydro Tasmania and the Commonwealth Government; municipal reserves; and private and municipal lands managed by the Wellington Park Management Trust.

4. Permanent Timber Production Zone land as defined under the Forest Management Act, 2013.

1.3 Area of special management zones in wood production areas

| Special Value | Area (ha) |
|------------------------|-----------|
| Biodiversity | 23,470 |
| Cultural heritage | 10,620 |
| Geoconservation values | 44,000 |
| Landscape | 43,370 |

Notes:

• Special management zones are defined as per Forestry Tasmania's Management Decision Classification system.

1.4 Native forest harvesting and regeneration summary

| Native forest | 2012/13 ⁵ | 2013/14 ⁵ | 2014/15 |
|---|------------------|------------------|---------|
| Area clearfelled | 1,890 | 1,500 | 1,890 |
| Area of partial harvesting ¹ | 1,910 | 1,610 | 2,780 |
| Total area harvested ² | 3,800 | 3,110 | 4,670 |
| | | | |
| Area regenerated ^{3,4} | 3,340 | 3,970 | 6,120 |

Notes:

1. Excludes thinning.

2. Totals are the rounded actual totals.

3. Regeneration treatments are often undertaken in the year following the year in which harvesting was completed.

4. Refer to Table 1.7 for summary of regeneration success monitoring.

5. 2012/13 & 2013/14 previously published figures have been updated with final mapping of boundaries (from flown photography, GPS etc)

[•] Rounded to nearest 10 hectares.

[•] An area may hold multiple special values.

1.5 Plantation area (hectares)

| SW: softwood HW: hardwood ¹ | Net ar planta | | FT equity ⁶ | | |
|--|------------------|--------|------------------------|--------|--|
| Ownership | SW | HW | SW | HW | |
| Forestry Tasmania (FT) plantation on PTPZ land $^{\scriptscriptstyle 1}$ | 2,810 | 32,133 | 2,810 | 32,133 | |
| FT joint venture plantation on PTPZ land ^{1,2} | 7,595 | 6,836 | 7,595 | 6,836 | |
| FT joint venture plantation on private land | 96 | 193 | 96 | 193 | |
| Tassie Trees Trust plantation on PTPZ land ³ | 304 | 959 | 304 | 959 | |
| FT plantation on private land | 0 | 221 | 0 | 221 | |
| Private plantation on PTPZ land ⁴ | 42,853 | 15,674 | 0 | 0 | |
| Total 2014/15 | 53,657 | 56,016 | 10,804 | 40,343 | |
| (Total 2013/14) ⁵ | 53,262 | 58,088 | 10,748 | 41,413 | |

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 (BMTA).

- 2. Includes softwood plantations jointly owned with Norske-Skog, for which data is supplied by Norske-Skog as at 1st June 2015.
- 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 2015.
- 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.

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

| FT-managed land ¹ | 2012/13 | 2013/14 | 2014/15 |
|--|---------|---------|---------|
| Annual conversion | 0 | 0 | 0 |
| Cumulative NF converted since 1996 | 49,320 | 49,320 | 49,320 |
| Proportion of 1996 baseline statewide native forest ² | 1.5% | 1.5% | 1.5% |

Notes:

1. PTPZ land together with areas managed by Forestry Tasmania on other tenures (private land, Buckland Military Training Area).

2. Native forest on all tenures, as mapped in 1996 (3.21 million ha baseline).

1.7 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 | | 20 | 932 | 562 | 26 | 1,540 |
| Wet eucalypt ¹ | | 192 | 321 | 1,551 | 315 | 2,360 |
| High altitude <i>E. delegatensis</i> ¹ | | 0 | 0 | 277 | 37 | 314 |
| Fenced intensive blackwood ¹ | | 0 | 0 | 73 | 125 | 198 |
| Swamp blackwood ² | | 0 | 68 | 40 | 40 | 149 |
| Rainforest ² | | 0 | 0 | 0 | 0 | 0 |
| Huon pine forest ² | | 0 | 0 | 0 | 0 | 0 |
| Total | | 212 | 1,321 | 2,503 | 544 | 4,580 |
| | % Area met s | standard | | | | 87% |

Notes:

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

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

| Eucalyptus plantations: | 2012/13 | | 2013 | 3/14 | 2014/15 | | |
|----------------------------|----------|--------|--------------------|-------------------------|----------|--------------------|--|
| | Moderate | Severe | Moderate | Severe | Moderate | Severe | |
| Soil fertility/site issues | 15 | 984 | 52 | 529 | 25 | 303 | |
| Insect damage | 4,479 | 1,117 | 3,866 ³ | 967 ³ | 1,340 | 272 ⁴ | |
| Multiple causes | 873 | 1,844 | 274 | 688 ² | 835 | 1,070 ⁵ | |
| Climate / environmental | 0 | 83 | 101 | 51 | 128 | 72 | |
| Unknown | 0 | 45 | 43 | 457 ¹ | 0 | 9 | |
| Silvicultural | 0 | 24 | 0 | 88 | 0 | 0 | |
| Mammal damage | 72 | 0 | 0 | 88 | 0 | 0 | |
| Fungal diseases | 0 | 0.1 | 43 | 0 | 232 | 570⁵ | |
| Weeds | 19 | 9 | 27 | 1 | 111 | 1 | |

Notes:

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 plantations on Permanent Timber Production Zone land previously owned and managed by Gunns. 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. The summer of 2014/2015 saw the lowest leaf beetle populations on record with consequently reduced areas of damage.

5. 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.

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3.2 Leaf beetle IPM system results

| Leaf beetle IPM system | 2010/11 ¹ | 2011/12 ¹ | 2012/13 | 2013/14 | 2014/15 |
|---|-----------------------------|-----------------------------|--------------------|--------------------|---------|
| Area monitored (ha) | 28,912 | 19,333 | 14,530 | 13,454 | 11,288 |
| Area monitored that is above threshold (ha) | 9,571 | 3,525 | 6,137 ² | 1,543 ³ | 737 |
| Area monitored above threshold treated with alpha-cypermethrin (ha) | 5,576 | 2,361 | 4,741 | 887 | 451 |
| Area monitored above threshold treated with spinosad (ha) | 208 | 172 | 0 | 0 | 0 |
| Total area treated (ha) | 5,784 | 2,533 | 4,741 | 1,4024 | 451 |
| Area monitored above threshold-natural controls (ha) | 1,313 | 892 | 341 | 0 | 58 |
| Area monitored above threshold not treated (ha) | 2,786 | 992 | 1,396 | 696 | 228 |
| % monitored area sprayed | 20% | 13% | 33% | 10% | 4% |
| Proportion area sprayed with spinosad: cypermethrin | 0.04 | 0.07 | 0 | 0 | 0 |

Notes:

1. 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 2719 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.

3.3 Non-chemical browsing control summary

| Treatment Type | 2010/11 | 2011/12 | 2012/13 | 2013/14 | 2014/15 |
|---|---------|---------|---------|---------|---------|
| Number of control operations (number of coupes) | 402 | 259 | 241 | 296 | 213 |
| Number of coupes monitored | 420 | 433 | 469 | 334 | 266 |
| Length of fencing (km) | 1.4 | 18.7 | 19.9 | 0 | 0 |
| Tree guards (number of coupes) | 4 | 3 | 2 | 0 | 0 |
| Stockings/sleeves (ha) | 143 | 155 | 54 | 76 | 125 |

3.4 Pesticide usage in forestry field operations

| | | 2013/14 | 2014/15 |
|---------------------|-------------|------------|------------|
| Active ingredient | Туре | kg applied | kg applied |
| Glyphosate | Herbicide | 1,183.1 | 1,489.6 |
| Triclopyr | Herbicide | 44.3 | 5.4 |
| Alpha cypermethrin | Insecticide | 32.1 | 11 |
| Clopyralid | Herbicide | 21.7 | 0.7 |
| Halixyfop - methyl | Herbicide | 12.2 | 0 |
| Mesulfuron methyl | Herbicide | 7.9 | 4.8 |
| Terbacil | Herbicide | 7.0 | 0 |
| Sulfometuron methyl | Herbicide | 0.3 | 0 |
| Picloram | Herbicide | 0.2 | 0.8 |
| Aminopyralid | Herbicide | 0.1 | 0.7 |
| Hexazinone | Herbicide | <0.1 | 0 |
| Permethrin | Herbicide | 0 | 0.2 |
| Total active | | 1,309.0 | 1,513.3 |

3.5 Pesticide usage at FT nursery

| | | 2013/14 | 2014/15 |
|------------------------|-------------|------------|------------|
| Active Ingredient | type | kg applied | Kg applied |
| Alpha Cypermethrin | Insecticide | 0 | 0.027 |
| Copper Hydroxide | Fungicide | 1.33 | 0 |
| Copper Oxide | Fungicide | 0.30 | 0 |
| Deltamethrin | Insecticide | 0 | 0.002 |
| Dicamba | Herbicide | 0.90 | 0 |
| Dichlobenil | Herbicide | 0.001 | 0 |
| Didecyl Dimethyl NH4Cl | Fungicide | 0.41 | 1.26 |
| Diuron | Herbicide | 1.00 | 1.5 |
| Glufosinate Ammonium | Herbicide | 0 | 3.4 |
| Fenhexamid | Fungicide | 0.92 | 0 |
| Glyphosate | Herbicide | 17.70 | 0.054 |
| Iprodione | Fungicide | 0.91 | 1.175 |
| Mancozeb | Fungicide | 2.63 | 0 |
| МСРА | Herbicide | 4.35 | 0 |
| N-Methyl Pyrrolidone | Herbicide | 0 | 3.33 |
| Oxyfluorfen | Herbicide | 0 | 7.99 |
| Propamocarb | Fungicide | 2.40 | 0 |
| Pyrimethanil | Fungicide | 0 | 2.71 |
| Thiram | Fungicide | 1.44 | 1.2 |
| Total active | | 34.29 | 22.65 |

3.6 Fertiliser usage on forestry operations¹ - by nutrient type

| | 2010/11 | 2011/12 | 2012/13 | 2013/14 | 2014/15 | | |
|-------------------|---------|---------------------------------|---------|---------|---------|--|--|
| Nutrient type | | Amount of active ingredient (t) | | | | | |
| Nitrogen | 315.9 | 47.6 | 18.2 | 56.9 | 7.7 | | |
| Phosphorus | 78.6 | 15.3 | 7.9 | 3.1 | 0.25 | | |
| Potassium | 0.65 | 0.90 | 0.5 | 0.5 | 0.71 | | |
| Copper | 0.03 | 0.00 | 0 | 0 | 0 | | |
| Total | 395.18 | 63.8 | 26.6 | 60.5 | 8.6 | | |
| Area treated (ha) | 5,589 | 1,589 | 517 | 1,172 | 405 | | |

Note:

1. On Forestry Tasmania's Defined Forest Area.

3.7 Fertiliser usage¹ at FT nursery & seed orchards²by nutrient type

| | 2010/11 | 2011/12 | 2012/13 | 2013/14 | 2014/15 | | |
|---------------|---------|----------------------------------|---------|---------|---------|--|--|
| Nutrient type | | Amount of active ingredient (kg) | | | | | |
| Nitrogen | 543.9 | 540.1 | 91.0 | 100.1 | 37.9 | | |
| Phosphorus | 317.4 | 29.4 | 25.0 | 35.3 | 14.3 | | |
| Potassium | 308.4 | 112.5 | 50.9 | 61.8 | 12.2 | | |
| Calcium | 76.7 | 26.5 | 25.8 | 42.8 | 15 | | |
| Total | 1,246.4 | 708.5 | 192.7 | 240 | 79.6 | | |

Note:

1. Includes sales of potting mix to external customers

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

3.8 Summary of energy usage and resulting CO₂-equivalent emissions as a result of fuel used for transport and electricity usage within our offices

| Source | Usage | CO ₂ -e ¹ |
|-------------|--------------------------|---------------------------------|
| Unleaded | 26,141 litres | 62,224 |
| Diesel | 609,766 litres | 1,645,234 |
| Oil | 4,500 litres | 13,142 |
| Electricity | 1,739,567 kilowatt hours | 347,913 |
| Total | | 2,068,513 |

Notes:

1. Estimates based on Australian Government Department of Climate Change, 2014. National Greenhouse Accounts Factors, www.climatechange.gov.au

3.9 Smoke complaints issued to EPA

| Year | 2012/13 | 2013/14 | 2014/15 |
|--------------------------------------|---------|---------|---------|
| Number of complaints received by EPA | 21 | 11 | 19 |
| Contributed to by FT | 11 | 6 | 8 |

Notes:

1. Further information about air quality monitoring is produced by the EPA.

4 Actively engage with stakeholders

4.1 Non-Aboriginal cultural heritage management

| Year | Number of new sites detected | Number of old sites redetected |
|---------|---------------------------------|-----------------------------------|
| 2010/11 | 33 | 12 |
| 2011/12 | 16 | 14 |
| 2012/13 | 20 | 6 |
| 2013/14 | 4 | 2 |
| 2014/15 | 17 | 4 |

4.2 Stakeholder interaction summary

| | 201 | 3/14 | 2014 | 4/15 |
|--------------------|--------|--------------|--------|--------------|
| Stakeholder Groups | Events | Stakeholders | Events | Stakeholders |
| Community | 258 | 340 | 495 | 691 |
| Neighbours | 119 | 168 | 146 | 236 |
| Commercial Users | 111 | 76 | 121 | 178 |
| Recreational | 94 | 99 | 120 | 189 |
| Environmental | 110 | 116 | 112 | 149 |
| State government | 94 | 162 | 72 | 219 |
| Industry | 81 | 92 | 66 | 140 |
| Tourism | 57 | 56 | 52 | 87 |
| Local government | 46 | 343 | 41 | 253 |
| Scientific | 48 | 95 | 39 | 112 |
| Customers | 39 | 149 | 34 | 162 |
| Business | 57 | 78 | 32 | 103 |
| Educational | 23 | 69 | 29 | 93 |
| Contractors | 21 | 40 | 25 | 121 |
| Aboriginal | 35 | 65 | 19 | 63 |
| Media | 10 | 17 | 13 | 25 |
| Suppliers | 5 | 16 | 13 | 25 |
| Federal government | 6 | 22 | 7 | 25 |
| Total | 799 | 1,670 | 978 | 2,326 |

Notes:

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

4 Actively engage with stakeholders

4.3 Education, research and community funding

| Contributions to forest education | value (\$) |
|--|------------|
| Forest Education Foundation | 204,000 |
| Research funding | |
| New integrated approach for ecologically sustainable forest management (University of Tasmania) | 40,000 |
| ARC linkage project on forest influence (Sue Baker) | 15,700 |
| Operational research priorities within Australia (Australian Forest Operations Research Alliance) | 10,000 |
| Community sponsorship | |
| Design Centre Tasmania | 20,000 |
| Timber Communities Australia | 10,000 |
| Total | 299,700 |

Note: Figures are GST exclusive

4.4 Summary of compliance with Forest Practices Act 1985

| | 2010/11 | 2011/12 | 2012/13 | 2013/14 | 2014/15 |
|---|------------------|------------------|----------|----------|----------|
| Number of Forest Practices Plans (FPPs) certified | Not collected | Not collected | 137 | 208 | 200 |
| Written S41 notices issued to FT | 0(0%) | 2 | 2 | 0 | 0 |
| S41 notices issued to contractors on PTPZ land ³ | 0(0%) | 2 | 2 | 2 | 1 |
| Fines or prosecutions issued to FT by Forest Practices Authority | 1 (\$3,000) | 0 | 0 | 1(\$500) | 0 |
| Compliance certificates outstanding as reported by Forest Practices Authority (August) ¹ | 0 (100%) | 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.

3. Permanent Timber Production Zone land as defined under the Forest Management Act, 2013.

4 Actively engage with stakeholders

4.5 Summary of compliance with *Work Health* and Safety Act 2012

| Year | 2013/14 | 2014/15 |
|------------------------------|---------|---------|
| S.191 Improvement Notice | 1 | 0 |
| S.195 Prohibition Notice | 1 | 0 |
| S.198 Non-disturbance Notice | 0 | 0 |

4.6 Audits of 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 | | |
| 2014/15 | 4 | 2 | | |

6.1 Safety statistics

| | 2010/11 | 2011/12 | 2012/13 | 2013/14 | 2014/15 |
|---|---------|---------|---------|---------|---------|
| Number of direct employees | 424 | 383 | 351 | 295 | 241 |
| Number of workers compensation claims | 19 | 16 | 15 | 13 | 21 |
| % of gross wages spent on claims | 0.19 | 0.10 | 0.07 | 0.13 | 0.13 |
| Lost time injury frequency rate (LTIFR) | 9.5 | 5.68 | 4.46 | 5.1 | 19.61 |
| All claims frequency rate | 22.56 | 22.73 | 22.31 | 22.08 | 41.18 |
| Lost time injury severity rate | 10.45 | 6.66 | 1.97 | 5.27 | 13.32 |
| Harvesting contractors LTIFR | 6.9 | 2.82 | 11.60 | 14.33 | 11.84 |

6.2 Forest activity assessments on Permanent Timber Production Zone land

| | 2013/14 | 2014/15 |
|------------------|-----------------------|-----------------------|
| Activity type | Number of assessments | Number of assessments |
| Commercial | 2 | 0 |
| Community access | 2 | 1 |
| Fire management | 1 | 6 |
| Flora collection | 4 | 2 |
| Infrastructure | 10 | 5 |
| Land management | 6 | 2 |
| Leases | 6 | 5 |
| Recreation | 27 | 17 |
| Research | 16 | 11 |