

An aerial photograph of a forest landscape. A large, irregularly shaped area of land has been cleared, showing brown soil and sparse green vegetation. This cleared area is bordered by a dense, dark green forest. The text 'Appendices' is overlaid on the cleared area, and 'After the Logging' is overlaid on the forest edge. The date 'NOVEMBER 2021' is in the bottom right, and a large red number '1' is at the bottom center.

## Appendices

# After the Logging

Failing to regrow Victoria's native forests

NOVEMBER 2021



# Appendices

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# Appendix 1

## After the Logging

Failing to regrow Victoria's native forests





# Annual Harvesting and Regeneration Report

2013/14  
October 2014



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## Executive Summary

The Annual Harvesting and Regeneration Report has been developed by VicForests to demonstrate to the Secretary of the Department of Environment and Primary Industries how VicForests has met its obligations under section 15 of the *Sustainable Forests (Timber) Act 2004*, whereby on the making of an Allocation Order, VicForests must carry out its functions in accordance with the order.

The Allocation Order (AO) is made by the Minister for Agriculture and Food Security under Part 3 of the *Sustainable Forests (Timber) Act 2004* (SFTA).

The objectives of an AO are to:

- Allocate specified timber resources in State forests to VicForests for the purposes of harvesting and selling, or harvesting or selling timber resources;
- Permit VicForests to undertake associated management activities in relation to that allocated timber and in the areas to which the order applies (e.g. construction of access roads, regeneration activities and monitoring); and
- Specify relevant conditions and limitations (e.g. minimum planning and reporting requirements, and the maximum five-year harvest area limits)

The current AO is the Allocation Order 2013, published in the Victorian Government Gazette No S 343 on 1 October 2013. This AO replaced the Allocation to VicForests Order 2004 which covered the period 1 August 2004 to 31 September 2013.

This report specifically addresses Clause 18 of the Allocation Order 2013, whereby VicForests must submit an annual report to the Secretary of the Department of Environment and Primary Industries by September 30 each year, describing the area of timber harvested and regeneration results of the preceding financial year for Ash and Mixed Species forest stand types. The report must also include data demonstrating how VicForests is complying with the five year harvest area limit (as shown in item 5 of Table 1, of the Allocation order 2013).

The 2013/14 report represents the first year of the annual process to report harvesting activities, regeneration activities and demonstrate compliance with the 5-year harvest limits imposed by the Allocation Order 2013. In addition to these requirements, VicForests has included an annual summary of the other authorised activities undertaken in 2013/14.

In 2013/14, VicForests commenced harvesting in 124 coupes, attributing 2,049 hectares of AO Coupe Area to the Ash forest type and 2,110 hectares of the AO Coupe Area to Mixed Species forest type from their respective five-year area limits. This represents 14% of the Ash AO Coupe area limit and 3% of the Mixed Species AO Coupe area limit, and is on track to remain within the five-year limits.

VicForests 2013/14 season also comprised a net harvest of 1467 ha from Clear-felling, 1345 ha from Seed-tree, 17.5 ha from Regrowth Retention Harvesting and 93 ha from Uneven-aged silviculture. A total of 51 ha comprised solely of stand tending activities such as thinning.

In undertaking our annual regeneration responsibilities, VicForests proposed for finalisation a further 7,078 ha, comprising 212 coupes assessed as successfully regenerated.

Robert Green  
**CEO VicForests**

## Objectives

The objectives of the Annual Harvesting and Regeneration Report are to provide information on:

1. VicForests' Area of Timber Harvested
2. VicForests' Annual Regeneration Results
3. VicForests' Other Authorised Activities undertaken in 2013/14

## Area of Timber Harvested

Two types of area harvested results will be reported; they are the AO Coupe Area and the Net Harvest Area.

### 1.1 AO Coupe Area

The AO Coupe Area is the total coupe area (a gross area) of a coupe where timber harvesting has commenced in that coupe, reported by the year harvesting first commenced.

The AO Coupe Area is the area measurement that is used for comparison with the five-year harvest area limits listed in the AO. The five year harvest limit period is from 2013/14 to 2017/18.

The AO Coupe Area result includes both harvested and not harvested area. The area not harvested will contain areas potentially available for timber harvest and unavailable for harvest – usually because of Code of Practice exclusions or reserves created by VicForests.

This AO Coupe Area is classified into either Ash or Mixed Species forest stand types to identify what proportion of the coupes have been tallied against each of the five-year harvest area limits.

Table 1 indicates that in 2013/14, 2,049 hectares of AO Coupe Area was attributed to the Ash forest type and 2,110 hectares of AO Coupe Area was attributed to the Mixed Species forest type. **Figure 1** shows how VicForests compliance with the 5-year limits is being monitored

Table 1 2013/14 AO Coupe Area and five-year harvest limit by forest stand type

Forest stand type	AO Five-year harvest limit (Hectares)	2013/14 AO Coupe Area (Hectares)	Cumulative AO Area (Period 2013-2018) (Hectares)	% AO 5-Year Harvest Limit Utilised
<b>Ash</b>	14,200	2,049	2,049	14%
<b>Mixed species</b>	70,000	2,110	2,110	3%
<b>Notes:</b>				
<i>The area of harvest operations to be included in the comparison with the five-year area limits in the AO are; clear-fell, clear-fell salvage, seed tree (includes retained over-wood), regrowth retention harvesting and uneven-aged silviculture methods.</i>				
<i>Thinning type harvesting is considered tending operations and are not included in this comparison with the AO five-year harvest limits as specified in Clause 11 of the Allocation Order 2013.</i>				
<i>The total area of a coupe is tallied towards the five-year area limits in the Allocation Order when harvesting first commences in that coupe. Where timber harvesting occurs over more than one year or over more than one 5-year period of the AO, the AO Coupe Area will be tallied to the first year and first period in which harvesting first commenced.</i>				
<i>The forest stand type has been determined using the spatial file "Working_forest_area_2013.shp", as supplied to VicForests by DEPI.</i>				



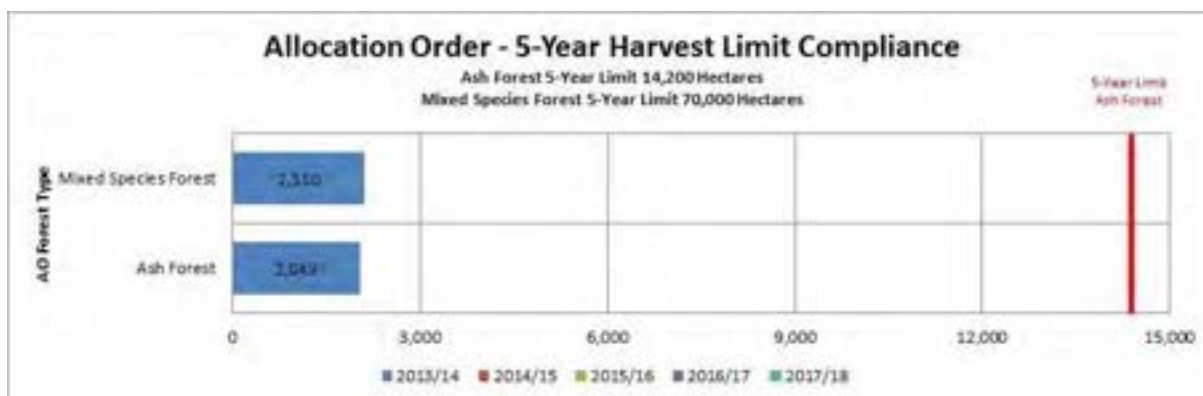


Figure 1 VicForests AO Compliance Monitoring Chart.

## 1.2 Net Harvest Area

To provide a comparison with the AO Coupe Area, the actual harvest area (the net area), will also be reported. This is the area harvested using each silviculture system reported in VicForests' annual Sustainability Report, broken down into Ash and Mixed Species forest stand types.

The net areas harvested by these silviculture systems will lead to a requirement for the harvested area to be regenerated as the majority of trees are removed from the site. Table 2 outlines the area of timber harvesting undertaken by VicForests during the 2013/14 year, by silviculture system and forest stand type.

Table 2 2013/14 Net Harvest Area by Silviculture system and forest stand type

Forest Stand Type	Clear felling	Clear felling - Salvage	Seed-Tree	Regrowth Retention Harvesting	Uneven-Aged (Seed-tree section)	Uneven-Aged (THB section)	TOTALS
Ash	1,260.8	-	34.4	17.5	-	-	1,312.7
Mixed Species	206.4	-	1310.4	-	3.4	89.2	1,609.4
<b>TOTALS</b>	<b>1,467.2</b>	<b>-</b>	<b>1,344.8</b>	<b>17.5</b>	<b>3.4</b>	<b>89.2</b>	<b>2,922.1</b>
<b>Notes:</b>							
<i>This data is sourced from VicForests 2013-14 Harvesting History shapefile – supplied with this submission.</i>							

## Annual Regeneration Results

Successful regeneration of a coupe is termed 'coupe finalisation' and can only be demonstrated when the entire net harvested area of a coupe has been adequately re-stocked with seedlings, usually established by sowing seed after completion of a regeneration burn.

The annual regeneration program consists of preparing sites where timber harvesting has occurred (site preparation), the establishment of eucalypt seedlings across the net harvested areas (site establishment) and a series seedling stocking surveys to measure regeneration success.

Coupes that have been surveyed and demonstrated to have adequate stocking of the eucalypt species that were present prior to timber harvesting are then nominated for coupe finalisation. Coupes nominated during 2013/14 are shown in Table 3.

## 2.1 Coupes nominated for coupe finalisation

Table 3 VicForests' coupes nominated for finalisation during 2013/14.

Coupe Types	Even-Aged Coupes	Uneven-Aged Coupes	Thinning Coupes	Roadline Coupes	TOTALS
<b>Number of Coupes Finalised</b>	192	7	3	10	<b>212</b>
<b>Gross Coupe Area Finalised</b>	6,438.9	579.4			<b>7,018.3</b>
<b>Net Area Harvested and Finalised</b>			41.4	17.8	<b>59.3</b>
<b>Notes:</b>					
This data is sourced from VicForests' CENGEA Database and VicForests' 2013-14 Harvesting History shapefile (supplied).					
All areas are in hectares.					

Additional information on coupes which VicForests has nominated for finalisation in 2013/14 has been supplied in Appendix 1 and via the attached spreadsheet - *VicForests 2013-14 Finalisation Submission*.

## Other Authorised Activities

This section outlines associated management activities undertaken by VicForests during the 2013/14 year as authorised within Clause 10 of the Allocation Order 2013.

### 3.1 Seed collection

Seed collection is undertaken annually to maintain adequate seed-stock to facilitate future site establishment of harvested areas. Table 4 shows the amount of seed collected by VicForests during the 2013/14 year by forest type and method of collection.

Table 4 Seed collection by species group completed by VicForests during 2013/14.

	Ground Seed Collection	Aerial collection (Climbing)	TOTAL
<b>Ash Species</b>	388.9	21.3	<b>410.3</b>
<b>Mixed species</b>	767.5	13.9	<b>781.4</b>
<b>TOTAL</b>	<b>1,156.4</b>	<b>35.2</b>	<b>1,191.7</b>
<b>Notes:</b>			
The data in this table is sourced from VicForests' Seed-bank database.			
All figures are in kilograms.			
Ash species includes alpine ash, mountain ash and shining gum. All other species are considered as mixed species.			

### 3.2 Stand Tending

Forest stand tending incorporates activity undertaken to manage or manipulate a forest stand while continuing to let the stand grow. Table 5 shows the net areas of stand tending activity undertaken by VicForests during the 2013/14 year.

Table 5 The area of stand tending activities by forest stand type undertaken in 2013.14.

Stand Type	Thinning from Above	Thinning from Below	Single-Tree Selection	TOTALS
Ash	-	50.7	-	50.7
Mixed Species	-	0.5	-	0.5
<b>TOTALS</b>	-	<b>51.2</b>	-	<b>51.2</b>
<b>Notes:</b>				
<i>The data in this table is sourced from VicForests' 2013-14 Harvesting History shapefile, which is included with this submission.</i>				

In addition to the appendices, the following attachments also form part of VicForests' Annual Harvesting and Regeneration Report:

1. VicForests' 2013-14 Harvesting History shapefile, including the following components:
  - a. VF\_Harvesting\_History\_2013-14\_Final\_20141030.dbf
  - b. VF\_Harvesting\_History\_2013-14\_Final\_20141030.prj
  - c. VF\_Harvesting\_History\_2013-14\_Final\_20141030.sbn
  - d. VF\_Harvesting\_History\_2013-14\_Final\_20141030.sbx
  - e. VF\_Harvesting\_History\_2013-14\_Final\_20141030.shp
  - f. VF\_Harvesting\_History\_2013-14\_Final\_20141030.shp.xml
  - g. VF\_Harvesting\_History\_2013-14\_Final\_20141030.shx
2. VicForests' 2013-14 Coupe Finalisation submission spreadsheet - *VicForests 2013-14 Finalisation Submission*



## Appendix 1. Coupes Nominated for Finalisation 2013/14.

**Notes:**

1. Data sourced from VicForests CENGEA database.
2. Some fields have been manually updated to include detail from other sources or make the information more easily understood.
3. Additional detail is available via attached spreadsheet – *VicForests 2013-14 Finalisation Submission*.

Stand type	FMA	District	Coupe address	Roadline	Forest type	Silvi type	TRP Area	Harvested area	Admin Org
Even-aged	Central	Alexandra	281-016-0002	No	FMS	STR	52.97	8.15	Shared
Even-aged	Central	Alexandra	283-505-0017	No	MAS	CFE	50.33	29.46	VicForests
Even-aged	Central	Alexandra	283-505-0019	No	MAS	CFS	64.62	36.94	VicForests
Even-aged	Central	Alexandra	286-509-0002	No	AAS	CFE	35.78	22.51	VicForests
Even-aged	Central	Alexandra	286-510-0008	No	AAS	CFS	33.4	10.15	VicForests
Even-aged	Central	Alexandra	286-513-0015	No	AAS	CFS	71.99	39.78	VicForests
Roadline	Central	Alexandra	287-504-0004	Yes	AAS	RDC	26.87	n/a	VicForests
Even-aged	Central	Alexandra	287-512-0023	No	AAS	CFE	28.96	19.04	VicForests
Even-aged	Central	Alexandra	287-513-0001	No	AAS	CFE	10.68	6.48	VicForests
Even-aged	Central	Alexandra	288-520-0004	No	AAS	CFE	29.79	20.33	VicForests
Even-aged	Central	Alexandra	290-523-0003	No	AAS	CFE	26.65	11.13	VicForests
Even-aged	Central	Toolangi	297-806-0001	No	FMS	STR	21.09	20.36	VicForests
Even-aged	Central	Toolangi	297-832-0001	No	MAS	CFE	7.15	7.67	VicForests
Even-aged	Central	Toolangi	298-521-0002	No	MAS	CFS	47.71	9.19	VicForests
Even-aged	Central	Toolangi	301-554-0002	No	MAS	CFS	101.8	43.74	VicForests
Even-aged	Central	Toolangi	301-556-0001	No	MMS	CFS	30.94	25.56	VicForests
Even-aged	Central	Toolangi	301-559-0002	No	MAS	CFS	24.21	4.2	VicForests
Even-aged	Central	Marysville	309-008-0008	No	MAS	CFE	18.93	15.47	VicForests
Even-aged	Central	Marysville	309-009-0016	No	MAS	CFS	34.79	23.36	VicForests
Even-aged	Central	Marysville	309-009-0021	No	MAS	CFE	19.22	13.03	VicForests
Even-aged	Central	Marysville	309-011-0006	No	AAS	CFE	37.4	15.95	VicForests
Even-aged	Central	Marysville	310-508-0014	No	MAS	CFS	44.49	25.59	VicForests
Even-aged	Central	Marysville	320-501-0014	No	AAS	CFE	30.99	15.48	VicForests
Even-aged	Central	Marysville	320-503-0015	No	AAS	CFE	33.53	25.92	VicForests
Even-aged	Dandenong	Powelltown	344-509-0008	No	MAS	CFE	12.99	7.47	VicForests
Even-aged	Dandenong	Powelltown	344-510-0001	No	MAS	CFE	37.63	23.43	VicForests
Even-aged	Dandenong	Powelltown	344-510-0003	No	MMS	STR	27.75	18.01	VicForests
Even-aged	Dandenong	Powelltown	344-554-0005	No	MAS	CFE	25.69	11.3	VicForests
Even-aged	Dandenong	Powelltown	344-554-0006	No	MAS	CFE	20.87	14.11	VicForests
Thinning	Dandenong	Powelltown	345-502-0030	No	MAS	THB	28.5	9.99	VicForests
Even-aged	Dandenong	Powelltown	348-519-0005	No	MAS	CFE	25.31	17.11	VicForests
Even-aged	Dandenong	Powelltown	348-520-0009	No	FMS	STR	27.52	17.51	VicForests
Even-aged	Dandenong	Powelltown	348-526-0004	No	MAS	CFE	48.06	24.12	VicForests
Even-aged	Dandenong	Powelltown	348-532-0001	No	MAS	CFE	50.46	36.06	VicForests
Even-aged	Dandenong	Powelltown	348-532-0005	No	MAS	CFE	34.36	27.97	VicForests
Even-aged	Dandenong	Powelltown	349-501-0009	No	MAS	CFE	14.02	9.69	VicForests
Even-aged	Dandenong	Powelltown	349-502-0012	No	MMS	STR	15.61	11.09	VicForests
Even-aged	Dandenong	Powelltown	349-503-0012	No	MAS	CFE	35.89	14.53	Shared
Uneven-aged	Benalla-Mansfield	Benalla/Mansfield	396-501-0005	No	FMS	STS	178	118.31	VicForests
Even-aged	Benalla-Mansfield	Benalla/Mansfield	401-504-0003	No	AAS	CFS	27.74	7.68	VicForests

Stand type	FMA	District	Coupe address	Roadline	Forest type	Silvi type	TRP Area	Harvested area	Admin Org
Even-aged	Benalla-Mansfield	Benalla/Mansfield	401-504-0004	No	AAS	CFS	55.29	10.29	VicForests
Even-aged	Benalla-Mansfield	Benalla/Mansfield	401-504-0005	No	AAS	CFS	102	32.47	VicForests
Uneven-aged	Benalla-Mansfield	Benalla/Mansfield	412-505-0001	No	FMS	STS	74.96	23.52	VicForests
Even-aged	Central Gippsland	Noojee	457-501-0011	No	AAS	CFE	45.81	37.14	VicForests
Even-aged	Central Gippsland	Noojee	458-502-0011	No	AAS	CFE	14.3	3.13	VicForests
Even-aged	Central Gippsland	Noojee	458-502-0015	No	SHG	CFE	13.11	12.77	VicForests
Even-aged	Central Gippsland	Noojee	458-502-0017	No	MAS	CFE	38.78	24.16	VicForests
Even-aged	Central Gippsland	Noojee	458-505-0009	No	AAS	CFE	40.95	21.5	VicForests
Even-aged	Central Gippsland	Noojee	458-505-0010	No	MAS	CFE	29.38	16.56	VicForests
Even-aged	Central Gippsland	Noojee	458-506-0005	No	MAS	CFE	28.42	9.25	VicForests
Even-aged	Central Gippsland	Noojee	459-504-0021	No	MAS	CFE	31.23	13	VicForests
Even-aged	Central Gippsland	Noojee	460-511-0005	No	MMS	STR	21.28	14.27	VicForests
Even-aged	Central Gippsland	Noojee	460-512-0001	No	FMS	STR	26.85	26.28	VicForests
Even-aged	Central Gippsland	Noojee	462-505-0021	No	MMS	STR	37.99	35.64	VicForests
Even-aged	Central Gippsland	Noojee	462-510-0018	No	MAS	CFE	18.56	14.54	VicForests
Even-aged	Central Gippsland	Noojee	462-510-0025	No	MMS	STR	38.78	35.14	VicForests
Even-aged	Central Gippsland	Noojee	462-512-0011	No	FMS	STR	32.48	25.72	VicForests
Even-aged	Central Gippsland	Noojee	463-505-0011	No	MAS	CFE	21.36	19.33	VicForests
Even-aged	Central Gippsland	Noojee	464-506-0011	No	MAS	CFE	86.2	27.57	VicForests
Even-aged	Central Gippsland	Noojee	467-502-0008	No	MMS	STR	31.31	23.77	VicForests
Even-aged	Central Gippsland	Noojee	467-504-0003	No	FMS	STR	36.91	25.47	VicForests
Thinning	Central Gippsland	Noojee	467-506-0003	No	FMS	THB	43.3	24.5	Shared
Even-aged	Central Gippsland	Erica	478-504-0001	No	MMS	STR	71.98	17.15	VicForests
Even-aged	Central Gippsland	Erica	479-507-0003	No	FMS	STR	26.47	14.91	VicForests
Even-aged	Central Gippsland	Erica	480-501-0002	No	MAS	CFE	20.62	9.96	VicForests
Even-aged	Central Gippsland	Erica	480-504-0018	No	AAS	CFE	15.13	14.43	VicForests
Even-aged	Central Gippsland	Erica	480-506-0023	No	AAS	CFE	16.51	11.11	VicForests
Even-aged	Central Gippsland	Erica	483-506-0003	No	MAS	CFE	9.29	5.3	VicForests
Even-aged	Central Gippsland	Erica	484-501-0025	No	FMS	STR	41.54	33.73	VicForests
Even-aged	Central Gippsland	Erica	486-503-0015	No	FMS	STR	47.89	5.35	VicForests
Even-aged	Central Gippsland	Erica	487-506-0019	No	FMS	STR	14.63	15.23	VicForests
Even-aged	Central Gippsland	Erica	487-506-0021	No	FMS	STR	17.7	14.66	VicForests
Even-aged	Central Gippsland	Erica	490-503-0001	No	FMS	CFS	20.17	11.19	VicForests
Thinning	Central Gippsland	Erica	490-510-0013	No	FMS	THB	12	6.93	VicForests
Even-aged	Central Gippsland	Erica	490-514-0013	No	FMS	STR	28.27	26.42	VicForests
Even-aged	Central Gippsland	Erica	490-520-0002	No	FMS	STR	53.96	36.27	VicForests
Even-aged	Central Gippsland	Heyfield	522-502-0004	No	AAS	STR	39.54	34.08	VicForests
Even-aged	Central Gippsland	Heyfield	522-502-0005	No	AAS	STR	3.45	3.24	VicForests
Even-aged	Central Gippsland	Heyfield	538-502-0003	No	MAS	CFS	23.48	19.59	VicForests
Even-aged	Central Gippsland	Heyfield	539-501-0003	No	MAS	CFS	48.06	24.03	VicForests
Even-aged	North East	Ovens	632-509-0008	No	AAS	CFS	53.12	23.52	VicForests
Even-aged	North East	Ovens	647-506-0004	No	AAS	CFS	119.1	12.1	Shared
Even-aged	North East	Upper Murray	676-530-0009	No	AAS	CFE	33.04	13.24	VicForests
Roadline	North East	Upper Murray	676-530-0012	Yes	FMS	RDC	5.15	n/a	VicForests
Even-aged	Tambo	Swifts Creek	711-506-0005	No	AAS	CFE	41.13	22.21	VicForests
Even-aged	Tambo	Swifts Creek	712-503-0005	No	AAS	CFE	34.98	27.83	VicForests
Even-aged	Tambo	Swifts Creek	712-503-0008	No	AAS	CFE	14.35	8.71	VicForests
Even-aged	Tambo	Bairnsdale	722-506-0007	No	AAS	CFE	40.15	21.71	VicForests
Even-aged	Tambo	Bairnsdale	722-506-0011	No	AAS	CFE	36.24	30.48	VicForests
Even-aged	Tambo	Bairnsdale	726-501-0005	No	MAS	CFE	30.05	16.67	VicForests

Stand type	FMA	District	Coupe address	Roadline	Forest type	Silvi type	TRP Area	Harvested area	Admin Org
Even-aged	Tambo	Bairnsdale	726-515-0009	No	MAS	CFE	21.69	18.25	VicForests
Even-aged	Tambo	Bairnsdale	727-516-0006	No	AAS	CFE	39.83	14.26	VicForests
Uneven-aged	Tambo	Bairnsdale	735-507-0004	No	FMS	UNE	68.93	53.43	VicForests
Uneven-aged	Tambo	Bairnsdale	735-507-0005	No	FMS	UNE	65.76	50.44	VicForests
Even-aged	Tambo	Swifts Creek	764-503-0008	No	AAS	CFE	44.03	21.48	VicForests
Even-aged	Tambo	Swifts Creek	764-503-0014	No	AAS	CFE	22.26	12.17	VicForests
Even-aged	Tambo	Swifts Creek	766-506-0014	No	FMS	STR	21.62	11.73	VicForests
Even-aged	Tambo	Swifts Creek	767-502-0013	No	AAS	CFE	19.3	10.74	VicForests
Even-aged	Tambo	Swifts Creek	770-510-0008	No	AAS	CFE	29.3	19.72	VicForests
Roadline	Tambo	Swifts Creek	770-510-0011	Yes	MMS	RDI	9.88	n/a	VicForests
Even-aged	Tambo	Swifts Creek	773-502-0003	No	AAS	CFE	13.44	13.66	VicForests
Even-aged	Tambo	Swifts Creek	773-502-0005	No	AAS	CFS	39.01	23.39	VicForests
Even-aged	Tambo	Swifts Creek	773-502-0023	No	AAS	CFE	45.7	36.52	VicForests
Even-aged	Tambo	Swifts Creek	773-502-0024	No	AAS	CFE	32.12	32.63	VicForests
Even-aged	Tambo	Swifts Creek	773-503-0004	No	AAS	CFS	16.67	16.41	VicForests
Even-aged	Tambo	Swifts Creek	775-504-0012	No	AAS	CFE	27.45	28.68	VicForests
Even-aged	Tambo	Swifts Creek	775-506-0005	No	MMS	CFS	72.5	35.5	VicForests
Even-aged	Tambo	Swifts Creek	775-509-0004	No	MMS	CFS	48.28	26.18	VicForests
Even-aged	Tambo	Swifts Creek	777-501-0013	No	MMS	CFE	32.25	9.26	VicForests
Even-aged	East Gippsland	Nowa Nowa	803-501-0007	No	CMS	STR	21.36	17.5	VicForests
Even-aged	East Gippsland	Nowa Nowa	803-502-0005	No	FMS	STR	30.9	23.81	VicForests
Even-aged	East Gippsland	Nowa Nowa	804-502-0009	No	CMS	STR	33.2	25.05	VicForests
Even-aged	East Gippsland	Nowa Nowa	807-501-0009	No	FMS	STR	38.82	39.62	VicForests
Even-aged	East Gippsland	Nowa Nowa	807-501-0010	No	FMS	STR	25.82	21.98	VicForests
Even-aged	East Gippsland	Nowa Nowa	807-501-0016	No	FMS	STR	36.58	21.33	VicForests
Even-aged	East Gippsland	Nowa Nowa	810-501-0008	No	FMS	STR	37.7	29.73	VicForests
Even-aged	East Gippsland	Nowa Nowa	817-501-0001	No	AAS	STR	32.49	36.52	VicForests
Even-aged	East Gippsland	Nowa Nowa	817-506-0011	No	AAS	CFE	26.54	20.96	VicForests
Even-aged	East Gippsland	Nowa Nowa	817-511-0006	No	AAS	CFE	44.23	40.65	Shared
Even-aged	East Gippsland	Orbost	827-502-0003	No	FMS	STR	34.83	21.32	VicForests
Roadline	East Gippsland	Orbost	827-505-0012	Yes	FMS	RDC	5.47	n/a	VicForests
Even-aged	East Gippsland	Orbost	827-512-0005	No	CMS	STR	36.14	30.85	VicForests
Even-aged	East Gippsland	Orbost	827-514-0010	No	CMS	STR	39.74	26.5	VicForests
Even-aged	East Gippsland	Orbost	827-514-0013	No	FMS	STR	32.41	26.89	VicForests
Even-aged	East Gippsland	Orbost	829-508-0020	No	FMS	STR	25.21	11.88	VicForests
Even-aged	East Gippsland	Orbost	829-509-0003	No	FMS	STR	26.95	8.73	VicForests
Even-aged	East Gippsland	Orbost	829-509-0008	No	FMS	STR	34.73	23.44	VicForests
Even-aged	East Gippsland	Orbost	829-509-0023	No	FMS	STR	47.88	27.52	VicForests
Even-aged	East Gippsland	Orbost	829-510-0009	No	FMS	STR	26.35	20.72	VicForests
Roadline	East Gippsland	Orbost	830-503-0015	Yes	FMS	RDI	27.7	n/a	VicForests
Even-aged	East Gippsland	Orbost	830-506-0006	No	FMS	STR	36.88	22.94	VicForests
Even-aged	East Gippsland	Orbost	830-506-0011	No	FMS	STR	40.79	23.76	VicForests
Even-aged	East Gippsland	Orbost	830-515-0001	No	FMS	STR	46.18	32.68	VicForests
Even-aged	East Gippsland	Orbost	831-504-0014	No	FMS	STR	47.47	20.08	VicForests
Even-aged	East Gippsland	Orbost	831-504-0015	No	FMS	STR	14.62	10.46	VicForests
Even-aged	East Gippsland	Orbost	831-505-0014	No	CMS	STR	38.09	21.82	VicForests
Even-aged	East Gippsland	Orbost	831-505-0018	No	FMS	STR	17.49	11.78	VicForests
Even-aged	East Gippsland	Orbost	831-507-0012	No	CMS	STR	27.29	18.03	VicForests
Even-aged	East Gippsland	Orbost	831-510-0007	No	CMS	STR	32.12	13.51	VicForests



Stand type	FMA	District	Coupe address	Roadline	Forest type	Silvi type	TRP Area	Harvested area	Admin Org
Even-aged	East Gippsland	Orbost	833-502-0014	No	FMS	CFS	38.22	22.5	VicForests
Even-aged	East Gippsland	Orbost	833-512-0014	No	FMS	STR	19.56	12.71	VicForests
Even-aged	East Gippsland	Orbost	833-515-0004	No	FMS	STR	45.05	8.59	VicForests
Even-aged	East Gippsland	Orbost	833-516-0008	No	FMS	STR	12.88	9.77	VicForests
Uneven-aged	East Gippsland	Orbost	834-505-0009	No	CMS	UNE	39.33	25.03	VicForests
Uneven-aged	East Gippsland	Orbost	834-506-0005	No	CMS	UNE	114.4	60.31	VicForests
Uneven-aged	East Gippsland	Orbost	834-514-0004	No	CMS	UNE	38.06	19.33	VicForests
Roadline	East Gippsland	Orbost	836-509-0022	Yes	FMS	RDI	20.78	n/a	VicForests
Roadline	East Gippsland	Orbost	836-515-0002	Yes	FMS	RDI	21.68	10.08	VicForests
Even-aged	East Gippsland	Bendoc	840-501-0046	No	MMS	STR	15.33	11.38	VicForests
Even-aged	East Gippsland	Orbost	841-501-0018	No	FMS	STR	21.6	16.32	VicForests
Even-aged	East Gippsland	Orbost	841-506-0001	No	FMS	STR	46.8	26.21	VicForests
Even-aged	East Gippsland	Orbost	842-501-0016	No	FMS	STR	48	35.02	VicForests
Even-aged	East Gippsland	Orbost	842-501-0021	No	FMS	STR	33.36	20.24	VicForests
Even-aged	East Gippsland	Orbost	842-512-0031	No	FMS	STR	35.54	19.05	VicForests
Even-aged	East Gippsland	Orbost	842-518-0027	No	FMS	STR	23.85	13.08	VicForests
Even-aged	East Gippsland	Orbost	842-518-0032	No	MMS	STR	41.9	25.42	VicForests
Even-aged	East Gippsland	Cann River	848-503-0002	No	CMS	STR	29.89	5.62	VicForests
Even-aged	East Gippsland	Cann River	848-503-0003	No	CMS	STR	36.31	25.87	VicForests
Even-aged	East Gippsland	Cann River	848-503-0004	No	CMS	STR	23.79	13.82	VicForests
Even-aged	East Gippsland	Cann River	848-504-0001	No	CMS	STR	28.88	5.74	VicForests
Even-aged	East Gippsland	Cann River	863-503-0010	No	CMS	STR	28.87	12.83	VicForests
Even-aged	East Gippsland	Cann River	866-506-0005	No	CMS	STR	37.47	24.68	VicForests
Even-aged	East Gippsland	Cann River	866-506-0006	No	CMS	STR	27.48	22.16	VicForests
Even-aged	East Gippsland	Cann River	866-506-0008	No	CMS	STR	28.89	19.55	VicForests
Even-aged	East Gippsland	Cann River	866-508-0011	No	FMS	STR	48.79	32.85	VicForests
Even-aged	East Gippsland	Cann River	866-509-0008	No	CMS	STR	36.59	27.06	VicForests
Even-aged	East Gippsland	Cann River	867-503-0002	No	FMS	CFS	51.95	38.55	VicForests
Even-aged	East Gippsland	Cann River	868-504-0005	No	FMS	STR	41.36	30.08	VicForests
Even-aged	East Gippsland	Cann River	871-501-0011	No	FMS	STR	41.87	36.57	VicForests
Even-aged	East Gippsland	Cann River	871-506-0016	No	FMS	STR	50.64	25.7	VicForests
Even-aged	East Gippsland	Cann River	873-504-0007	No	CMS	STR	23	14.63	VicForests
Even-aged	East Gippsland	Cann River	874-504-0017	No	FMS	STR	42.84	37.48	VicForests
Even-aged	East Gippsland	Cann River	874-507-0011	No	FMS	STR	28.86	18.25	VicForests
Even-aged	East Gippsland	Cann River	875-505-0004	No	FMS	STR	37.41	21.46	VicForests
Even-aged	East Gippsland	Cann River	875-505-0009	No	FMS	STR	32.84	9.74	VicForests
Even-aged	East Gippsland	Cann River	878-502-0006	No	FMS	STR	42.6	29.71	VicForests
Even-aged	East Gippsland	Cann River	878-512-0003	No	FMS	STR	39.83	29.71	VicForests
Even-aged	East Gippsland	Cann River	878-512-0004	No	FMS	STR	36.52	30.66	VicForests
Even-aged	East Gippsland	Cann River	885-504-0006	No	MMS	STR	36.58	14.07	VicForests
Even-aged	East Gippsland	Cann River	886-502-0009	No	MMS	STR	23.74	23.62	VicForests
Even-aged	East Gippsland	Cann River	886-502-0010	No	MMS	STR	36.79	24.8	VicForests
Even-aged	East Gippsland	Cann River	886-503-0003	No	MMS	STR	36.46	31.25	VicForests
Even-aged	East Gippsland	Cann River	886-504-0016	No	MMS	STR	19.34	17.79	VicForests
Roadline	East Gippsland	Cann River	888-504-0001	Yes	MMS	RDI	8.15	1.29	VicForests
Even-aged	East Gippsland	Cann River	888-515-0010	No	FMS	STR	31.64	7.07	VicForests
Even-aged	East Gippsland	Cann River	889-503-0027	No	MMS	STR	17.92	16.37	VicForests
Even-aged	East Gippsland	Cann River	889-504-0004	No	MMS	STR	33.39	18.93	VicForests
Even-aged	East Gippsland	Bendoc	890-504-0013	No	MMS	STR	18.85	9.25	VicForests

Stand type	FMA	District	Coupe address	Roadline	Forest type	Silvi type	TRP Area	Harvested area	Admin Org
Even-aged	East Gippsland	Bendoc	891-516-0036	No	FMS	STR	37.28	20.89	VicForests
Even-aged	East Gippsland	Bendoc	892-502-0008	No	MMS	STR	41.5	39.04	VicForests
Even-aged	East Gippsland	Bendoc	892-503-0006	No	MMS	STR	22.21	20.63	VicForests
Even-aged	East Gippsland	Bendoc	892-503-0007	No	MMS	STR	27.74	23.38	VicForests
Even-aged	East Gippsland	Bendoc	892-506-0008	No	MMS	STR	38.63	31.58	VicForests
Even-aged	East Gippsland	Bendoc	892-506-0009	No	MMS	STR	45.81	39.4	VicForests
Even-aged	East Gippsland	Bendoc	892-507-0008	No	AMS	STR	32.56	20.02	VicForests
Roadline	East Gippsland	Bendoc	892-507-0012	Yes	MMS	RDC	8.09	n/a	VicForests
Even-aged	East Gippsland	Bendoc	892-508-0002	No	AMS	STR	15.96	14.37	VicForests
Roadline	East Gippsland	Bendoc	892-514-0014	Yes	MMS	RDI	10.11	6.46	VicForests
Even-aged	East Gippsland	Bendoc	892-518-0006	No	AMS	STR	23.78	20.9	VicForests
Even-aged	East Gippsland	Bendoc	893-503-0012	No	AMS	STR	13.76	9.5	VicForests
Even-aged	East Gippsland	Bendoc	893-503-0017	No	SHG	STR	22.77	22.15	VicForests
Even-aged	East Gippsland	Bendoc	893-507-0008	No	MMS	STR	10.62	8.84	VicForests
Even-aged	East Gippsland	Bendoc	893-507-0009	No	AMS	STR	30.75	27.7	VicForests
Even-aged	East Gippsland	Bendoc	894-504-0012	No	MMS	STR	13.8	13.09	VicForests
Even-aged	East Gippsland	Bendoc	894-504-0018	No	MMS	STR	37.9	33.28	VicForests
Even-aged	East Gippsland	Bendoc	894-505-0013	No	MMS	STR	35.33	31.96	VicForests
Even-aged	East Gippsland	Bendoc	894-506-0002	No	MMS	STR	16.89	15.29	VicForests
Even-aged	East Gippsland	Bendoc	894-509-0004	No	AMS	STR	40.9	26.53	VicForests
Even-aged	East Gippsland	Bendoc	895-502-0004	No	MMS	STR	51.22	39	VicForests
Even-aged	East Gippsland	Bendoc	895-505-0007	No	MMS	STR	35.71	34.11	VicForests
Even-aged	East Gippsland	Bendoc	895-506-0008	No	MMS	STR	36.11	35.49	VicForests
Even-aged	East Gippsland	Bendoc	895-513-0015	No	MMS	STR	2.78	24.88	VicForests

**Appendix 2.        Amendments to data supplied via previous  
VicForests' *Annual Harvest and Regeneration  
Reports.***

No amendments included with this submission.



### Appendix 3. Harvesting History (Shapefile attached)

**Notes:**

1. Data sourced from VicForests' 2013-14 Harvesting History Shapefile (included as an attachment with this report).

SEASON	SILVSYS	FORESTYPE	COUPE_ADD	COUPE_TYPE	HARV_ORG	AREA_HA
201314	STR	CMS	866-511-0007	Even-Aged	VF	7.45
201314	STR	FMS	823-509-0011	Even-Aged	VF	2.34
201314	STR	FMS	735-508-0011	Even-Aged	VF	33.05
201314	STR	FMS	870-502-0005	Even-Aged	VF	23.43
201314	STR	FMS	836-514-0018	Even-Aged	VF	12.53
201314	CFE	MMS	892-519-0012	Even-Aged	VF	29.58
201314	STR	FMS	831-512-0012	Even-Aged	VF	17.06
201314	THB	MMS	888-501-0007	Uneven-Aged	VF	5.71
201314	THB	MMS	888-501-0007	Uneven-Aged	VF	23.74
201314	STR	MMS	892-507-0005	Even-Aged	VF	29.00
201314	STR	MMS	895-507-0011	Even-Aged	VF	19.81
201314	STR	MMS	895-507-0011	Even-Aged	VF	0.28
201314	STR	FMS	735-519-0012	Even-Aged	VF	7.67
201314	STR	FMS	735-519-0013	Even-Aged	VF	30.67
201314	STR	CMS	801-507-0005	Even-Aged	VF	7.33
201314	STR	MMS	892-507-0007	Even-Aged	VF	13.98
201314	STR	CMS	866-508-0014	Even-Aged	VF	24.55
201314	STR	FMS	825-516-0010	Even-Aged	VF	27.27
201314	STR	FMS	740-506-0004	Even-Aged	VF	6.15
201314	STR	FMS	870-502-0006	Even-Aged	VF	25.18
201314	STR	MMS	892-513-0004	Even-Aged	VF	6.78
201314	STR	MMS	892-513-0004	Even-Aged	VF	2.34
201314	CFE	AAS	770-510-0009	Even-Aged	VF	19.92
201314	STR	MMS	892-513-0004	Even-Aged	VF	0.13
201314	STR	FMS	844-501-0014	Even-Aged	VF	14.67
201314	CFE	MMS	888-504-0028	Even-Aged	VF	3.57
201314	CFE	MMS	888-504-0028	Even-Aged	VF	18.69
201314	CFE	AAS	760-504-0025	Even-Aged	VF	12.42
201314	STR	MMS	891-512-0002	Even-Aged	VF	18.49
201314	STR	CMS	866-508-0020	Even-Aged	VF	8.22
201314	STR	CMS	866-508-0021	Even-Aged	VF	0.46
201314	STR	CMS	878-513-0010	Even-Aged	VF	26.31
201314	CFE	AAS	771-507-0025	Even-Aged	VF	12.73
201314	STR	MMS	892-509-0006	Even-Aged	VF	12.05
201314	STR	MMS	814-503-0008	Even-Aged	VF	33.53
201314	CFE	MMS	888-504-0003	Even-Aged	VF	3.45
201314	CFE	MMS	888-504-0028	Even-Aged	VF	0.55
201314	STR	FMS	830-511-0017	Even-Aged	VF	8.38
201314	STR	FMS	871-506-0017	Even-Aged	VF	4.72

SEASON	SILVSYS	FORESTTYPE	COUPE_ADD	COUPE_TYPE	HARV_ORG	AREA_HA
201314	STR	FMS	871-506-0017	Even-Aged	VF	0.39
201314	STR	FMS	871-506-0017	Even-Aged	VF	12.59
201314	STR	MMS	875-501-0008	Even-Aged	VF	11.85
201314	STR	CMS	866-505-0005	Even-Aged	VF	33.63
201314	CFE	AAS	760-503-0015	Even-Aged	VF	12.01
201314	CFE	AAS	771-507-0024	Even-Aged	VF	18.72
201314	CFE	AAS	817-511-0010	Even-Aged	VF	13.22
201314	STR	FMS	830-511-0012	Uneven-Aged	VF	3.35
201314	STR	FMS	830-502-0010	Even-Aged	VF	6.54
201314	STR	MMS	894-504-0011	Even-Aged	VF	2.95
201314	STR	MMS	894-504-0011	Even-Aged	VF	4.80
201314	STR	MMS	894-504-0011	Even-Aged	VF	0.03
201314	STR	FMS	871-506-0002	Even-Aged	VF	2.85
201314	STR	FMS	871-506-0002	Even-Aged	VF	15.63
201314	STR	MMS	892-509-0001	Even-Aged	VF	15.68
201314	CFE	AAS	760-503-0017	Even-Aged	VF	6.77
201314	CFE	AAS	760-503-0017	Even-Aged	VF	6.38
201314	CFE	AAS	760-503-0017	Even-Aged	VF	3.36
201314	STR	MMS	875-501-0008	Even-Aged	VF	3.07
201314	THB	FMS	830-511-0012	Uneven-Aged	VF	8.41
201314	STR	MMS	894-504-0008	Even-Aged	VF	20.07
201314	STR	MMS	875-501-0008	Even-Aged	VF	3.31
201314	STR	MMS	875-501-0008	Even-Aged	VF	0.52
201314	STR	MMS	891-513-0005	Even-Aged	VF	8.53
201314	THB	FMS	831-510-0001	Uneven-Aged	VF	9.53
201314	CFE	AAS	760-504-0019	Even-Aged	VF	1.65
201314	CFE	AAS	760-504-0019	Even-Aged	VF	6.57
201314	STR	FMS	830-503-0019	Even-Aged	VF	15.41
201314	CFE	AAS	817-511-0014	Even-Aged	VF	15.16
201314	CFE	AAS	817-511-0003	Even-Aged	VF	4.11
201314	STR	FMS	885-515-0004	Even-Aged	VF	9.71
201314	STR	FMS	885-515-0003	Even-Aged	VF	2.07
201314	STR	FMS	885-515-0003	Even-Aged	VF	2.39
201314	STR	FMS	885-515-0003	Even-Aged	VF	0.80
201314	STR	FMS	830-510-0006	Even-Aged	VF	4.29
201314	STR	FMS	830-510-0008	Even-Aged	VF	16.37
201314	THB	FMS	830-510-0004	Thinnings	VF	0.51
201314	STR	MMS	892-509-0014	Even-Aged	VF	21.91
201314	STR	FMS	885-515-0003	Even-Aged	VF	0.88
201314	STR	FMS	886-505-0010	Even-Aged	VF	8.26
201314	CFE	MMS	770-510-0009	Even-Aged	VF	7.70
201314	STR	MMS	886-502-0012	Even-Aged	VF	11.79
201314	STR	FMS	827-519-0017	Even-Aged	VF	14.61
201314	STR	FMS	827-519-0017	Even-Aged	VF	3.45

SEASON	SILVSYS	FORESTTYPE	COUPE_ADD	COUPE_TYPE	HARV_ORG	AREA_HA
201314	CFE	AAS	765-501-0006	Thinnings	VF	1.10
201314	STR	MMS	886-506-0005	Even-Aged	VF	0.24
201314	STR	MMS	886-506-0005	Even-Aged	VF	0.46
201314	STR	MMS	886-506-0005	Even-Aged	VF	0.07
201314	STR	MMS	886-506-0005	Even-Aged	VF	8.89
201314	CFE	AAS	765-504-0002	Even-Aged	VF	8.01
201314	CFE	AAS	765-510-0001	Even-Aged	VF	6.43
201314	STR	FMS	823-509-0011	Even-Aged	VF	15.78
201314	STR	MMS	892-513-0015	Even-Aged	VF	14.89
201314	CFE	AAS	773-501-0023	Even-Aged	VF	22.55
201314	STR	FMS	830-501-0026	Even-Aged	VF	4.68
201314	STR	FMS	830-501-0026	Even-Aged	VF	3.36
201314	CFE	MMS	888-502-0012	Even-Aged	VF	25.27
201314	CFE	MMS	888-504-0003	Even-Aged	VF	17.45
201314	CFE	MMS	888-504-0003	Even-Aged	VF	17.41
201314	STR	MMS	885-512-0002	Even-Aged	VF	9.87
201314	STR	FMS	830-503-0021	Even-Aged	VF	6.65
201314	STR	FMS	867-504-0008	Even-Aged	VF	20.35
201314	THB	MMS	888-501-0007	Uneven-Aged	VF	15.58
201314	STR	CMS	743-504-0004	Even-Aged	VF	11.35
201314	THB	CMS	857-501-0001	Uneven-Aged	VF	19.53
201314	STR	FMS	825-518-0021	Even-Aged	VF	21.66
201314	STR	FMS	867-501-0021	Even-Aged	VF	4.95
201314	STR	CMS	823-506-0012	Even-Aged	VF	26.45
201314	STR	CMS	823-506-0012	Even-Aged	VF	5.60
201314	STR	MMS	892-507-0007	Even-Aged	VF	12.23
201314	STR	CMS	878-513-0010	Even-Aged	VF	6.65
201314	STR	CMS	804-503-0016	Even-Aged	VF	14.98
201314	THB	FMS	876-506-0009	Uneven-Aged	VF	6.73
201314	STR	CMS	866-508-0020	Even-Aged	VF	2.94
201314	STR	CMS	866-508-0021	Even-Aged	VF	11.92
201314	CFE	AMS	722-505-0009	Even-Aged	VF	9.89
201314	STR	FMS	732-503-0007	Even-Aged	VF	5.88
201314	STR	FMS	732-503-0007	Even-Aged	VF	12.16
201314	STR	FMS	735-510-0022	Even-Aged	VF	1.55
201314	STR	FMS	735-510-0020	Even-Aged	VF	0.58
201314	STR	MMS	892-513-0004	Even-Aged	VF	1.67
201314	THB	MAS	297-501-0003	Thinnings	VF	18.00
201314	STR	FMS	282-512-0004	Even-Aged	VF	18.01
201314	STR	FMS	284-502-0008	Even-Aged	VF	2.55
201314	STR	FMS	284-502-0009	Even-Aged	VF	13.15
201314	RRH	MAS	297-511-0003	Even-Aged	VF	2.77
201314	RRH	MAS	297-511-0003	Even-Aged	VF	0.81
201314	RRH	MAS	297-511-0003	Even-Aged	VF	0.41

SEASON	SILVSYS	FORESTTYPE	COUPE_ADD	COUPE_TYPE	HARV_ORG	AREA_HA
201314	STR	FMS	301-557-0002	Even-Aged	VF	13.37
201314	STR	FMS	460-504-0005	Even-Aged	VF	7.85
201314	CFE	AAS	320-502-0011	Even-Aged	VF	4.47
201314	CFE	MAS	463-502-0005	Even-Aged	VF	1.78
201314	CFE	MAS	463-502-0005	Even-Aged	VF	0.17
201314	CFE	MAS	463-502-0005	Even-Aged	VF	0.19
201314	CFE	MAS	463-502-0008	Even-Aged	VF	22.45
201314	THB	MAS	297-503-0002	Thinnings	VF	13.00
201314	CFE	AAS	320-502-0015	Even-Aged	VF	1.90
201314	CFE	AAS	320-502-0015	Even-Aged	VF	0.21
201314	CFE	AAS	320-502-0015	Even-Aged	VF	0.12
201314	CFE	AAS	320-502-0015	Even-Aged	VF	0.06
201314	UNL	MAS	460-507-0003	Even-Aged	VF	2.27
201314	STR	MAS	460-507-0003	Even-Aged	VF	0.92
201314	STR	MAS	460-507-0003	Even-Aged	VF	10.50
201314	THB	MAS	297-501-0004	Thinnings	VF	18.59
201314	CFE	AAS	320-502-0019	Even-Aged	VF	1.11
201314	CFE	AAS	320-502-0019	Even-Aged	VF	0.02
201314	CFE	AAS	320-502-0019	Even-Aged	VF	0.01
201314	CFE	MAS	462-505-0024	Even-Aged	VF	5.27
201314	CFE	MAS	463-501-0011	Even-Aged	VF	10.08
201314	STR	FMS	462-502-0004	Even-Aged	VF	12.67
201314	CFE	MAS	463-505-0010	Even-Aged	VF	6.68
201314	CFE	MAS	463-505-0010	Even-Aged	VF	2.78
201314	CFE	MAS	463-505-0010	Even-Aged	VF	0.39
201314	CFE	AAS	320-502-0002	Even-Aged	VF	0.88
201314	CFE	AAS	320-502-0002	Even-Aged	VF	0.43
201314	CFE	AAS	320-502-0002	Even-Aged	VF	0.42
201314	CFE	AAS	320-502-0002	Even-Aged	VF	0.42
201314	CFE	AAS	287-504-0001	Even-Aged	VF	14.43
201314	CFE	AAS	287-504-0003	Even-Aged	VF	0.19
201314	CFE	MAS	300-517-0001	Even-Aged	VF	4.76
201314	CFE	MAS	300-517-0001	Even-Aged	VF	0.42
201314	CFE	MAS	300-517-0001	Even-Aged	VF	0.23
201314	CFE	MAS	300-517-0001	Even-Aged	VF	3.44
201314	STR	FMS	347-521-0006	Even-Aged	VF	3.38
201314	STR	FMS	461-503-0003	Even-Aged	VF	6.14
201314	STR	FMS	461-503-0003	Even-Aged	VF	1.33
201314	STR	FMS	461-503-0003	Even-Aged	VF	0.05
201314	STR	FMS	461-503-0004	Even-Aged	VF	22.40
201314	CFE	MAS	462-503-0028	Even-Aged	VF	4.48
201314	CFE	MAS	462-503-0028	Even-Aged	VF	0.90
201314	CFE	MAS	462-503-0028	Even-Aged	VF	0.42
201314	CFE	MAS	462-503-0028	Even-Aged	VF	0.21

SEASON	SILVSYS	FORESTTYPE	COUPE_ADD	COUPE_TYPE	HARV_ORG	AREA_HA
201314	CFE	MAS	462-503-0028	Even-Aged	VF	0.03
201314	CFE	MAS	462-505-0025	Even-Aged	VF	11.99
201314	CFE	MAS	462-505-0024	Even-Aged	VF	0.07
201314	CFE	MAS	300-527-0004	Even-Aged	VF	8.23
201314	CFE	MAS	300-527-0004	Even-Aged	VF	2.77
201314	CFE	MAS	300-527-0004	Even-Aged	VF	2.63
201314	CFE	MAS	300-527-0004	Even-Aged	VF	1.90
201314	CFE	MAS	300-527-0004	Even-Aged	VF	0.07
201314	CFE	MAS	344-505-0004	Even-Aged	VF	5.95
201314	CFE	MAS	344-505-0004	Even-Aged	VF	1.81
201314	STR	FMS	497-501-0001	Even-Aged	VF	19.23
201314	STR	FMS	497-501-0001	Even-Aged	VF	0.02
201314	STR	FMS	497-501-0003	Even-Aged	VF	10.00
201314	STR	FMS	497-501-0002	Even-Aged	VF	2.48
201314	STR	FMS	497-501-0003	Even-Aged	VF	0.66
201314	CFE	MAS	461-513-0017	Even-Aged	VF	2.28
201314	STR	FMS	281-516-0005	Even-Aged	VF	4.45
201314	STR	FMS	281-516-0010	Even-Aged	VF	21.89
201314	CFE	AAS	286-512-0019	Even-Aged	VF	4.11
201314	CFE	AAS	286-512-0019	Even-Aged	VF	0.26
201314	CFE	AAS	286-512-0019	Even-Aged	VF	2.77
201314	CFE	AAS	286-512-0020	Even-Aged	VF	8.89
201314	CFE	AAS	286-512-0020	Even-Aged	VF	5.49
201314	CFE	AAS	286-512-0020	Even-Aged	VF	2.97
201314	CFE	AAS	317-504-0002	Even-Aged	VF	1.31
201314	CFE	AAS	317-505-0002	Even-Aged	VF	18.63
201314	STR	FMS	487-501-0002	Even-Aged	VF	13.00
201314	STR	FMS	487-501-0002	Even-Aged	VF	0.56
201314	STR	FMS	487-501-0006	Even-Aged	VF	3.84
201314	STR	FMS	301-548-0003	Even-Aged	VF	13.21
201314	STR	FMS	395-503-0001	Even-Aged	VF	13.74
201314	CFE	MAS	461-507-0014	Even-Aged	VF	12.73
201314	CFE	AAS	318-512-0005	Even-Aged	VF	2.24
201314	CFE	AAS	318-512-0004	Even-Aged	VF	10.95
201314	CFE	AAS	457-501-0010	Even-Aged	VF	12.99
201314	CFE	AAS	457-501-0010	Even-Aged	VF	1.18
201314	CFE	AAS	457-501-0010	Even-Aged	VF	0.33
201314	CFE	MAS	463-504-0006	Even-Aged	VF	23.77
201314	STR	FMS	301-548-0001	Even-Aged	VF	12.38
201314	CFE	AAS	457-504-0001	Even-Aged	VF	16.97
201314	CFE	MAS	461-513-0018	Even-Aged	VF	12.38
201314	CFE	AAS	480-504-0023	Even-Aged	VF	0.21
201314	CFE	AAS	480-504-0023	Even-Aged	VF	5.93
201314	CFE	MAS	480-503-0016	Even-Aged	VF	6.27



SEASON	SILVSYS	FORESTTYPE	COUPE_ADD	COUPE_TYPE	HARV_ORG	AREA_HA
201314	CFE	MAS	480-503-0017	Even-Aged	VF	1.45
201314	CFE	MAS	480-503-0017	Even-Aged	VF	0.18
201314	CFE	MAS	480-503-0017	Even-Aged	VF	3.10
201314	STR	FMS	301-548-0005	Even-Aged	VF	12.64
201314	STR	FMS	397-502-0001	Even-Aged	VF	25.66
201314	CFE	AAS	458-501-0003	Even-Aged	VF	20.13
201314	STR	FMS	345-512-0001	Even-Aged	VF	1.25
201314	STR	FMS	345-512-0001	Even-Aged	VF	0.71
201314	STR	FMS	345-512-0002	Even-Aged	VF	3.02
201314	STR	FMS	345-512-0002	Even-Aged	VF	4.08
201314	STR	FMS	345-512-0001	Even-Aged	VF	4.65
201314	CFE	MAS	309-507-0002	Even-Aged	VF	3.76
201314	CFE	MAS	309-507-0002	Even-Aged	VF	22.59
201314	CFE	AAS	687-511-0005	Even-Aged	VF	3.10
201314	CFE	AAS	687-512-0006	Even-Aged	VF	15.06
201314	CFE	AAS	687-512-0011	Even-Aged	VF	2.47
201314	CFE	AAS	687-512-0011	Even-Aged	VF	0.03
201314	CFE	AAS	287-012-0002	Even-Aged	VF	1.74
201314	CFE	AAS	287-012-0002	Even-Aged	VF	6.97
201314	CFE	AAS	287-012-0002	Even-Aged	VF	4.89
201314	CFE	AAS	287-012-0002	Even-Aged	VF	3.52
201314	CFE	AAS	288-516-0004	Even-Aged	VF	3.84
201314	CFE	AAS	288-516-0004	Even-Aged	VF	3.20
201314	UNL	MAS	309-508-0017	Even-Aged	VF	0.65
201314	CFE	AAS	676-528-0006	Even-Aged	VF	2.42
201314	CFE	AAS	676-530-0006	Even-Aged	VF	0.25
201314	CFE	AAS	320-503-0005	Even-Aged	VF	15.86
201314	CFE	MAS	459-502-0010	Even-Aged	VF	4.72
201314	CFE	AAS	457-501-0012	Even-Aged	VF	14.77
201314	CFE	AAS	288-510-0006	Even-Aged	VF	20.15
201314	CFE	AAS	384-505-0007	Even-Aged	VF	21.52
201314	STR	FMS	395-502-0004	Even-Aged	VF	12.42
201314	CFE	MAS	344-519-0001	Even-Aged	VF	29.04
201314	CFE	AAS	287-503-0005	Even-Aged	VF	4.32
201314	CFE	AAS	457-501-0024	Even-Aged	VF	6.24
201314	CFE	AAS	457-501-0018	Even-Aged	VF	16.58
201314	STR	FMS	463-502-0007	Even-Aged	VF	9.66
201314	CFE	MAS	524-503-0005	Even-Aged	VF	6.89
201314	CFE	MAS	524-503-0005	Even-Aged	VF	1.74
201314	CFE	MAS	524-503-0005	Even-Aged	VF	0.78
201314	CFE	MAS	524-503-0005	Even-Aged	VF	0.04
201314	CFE	MAS	524-503-0005	Even-Aged	VF	0.00
201314	CFE	MAS	483-504-0012	Even-Aged	VF	5.06
201314	CFE	MAS	482-501-0001	Even-Aged	VF	12.64

SEASON	SILVSYS	FORESTTYPE	COUPE_ADD	COUPE_TYPE	HARV_ORG	AREA_HA
201314	STR	MAS	458-501-0001	Even-Aged	VF	15.82
201314	CFE	MAS	462-506-0005	Even-Aged	VF	3.57
201314	CFE	AAS	457-501-0008	Even-Aged	VF	1.13
201314	CFE	AAS	457-501-0007	Even-Aged	VF	21.95
201314	CFE	FMS	461-510-0011	Even-Aged	VF	5.52
201314	CFE	MAS	461-510-0014	Even-Aged	VF	8.57
201314	CFE	AAS	687-511-0004	Even-Aged	VF	6.54
201314	CFE	AAS	687-512-0008	Even-Aged	VF	25.77
201314	CFE	MAS	347-515-0011	Even-Aged	VF	3.75
201314	CFE	MAS	347-515-0011	Even-Aged	VF	2.64
201314	CFE	MAS	347-515-0011	Even-Aged	VF	1.40
201314	CFE	AAS	457-508-0003	Even-Aged	VF	9.13
201314	CFE	SHG	457-508-0001	Even-Aged	VF	21.94
201314	CFE	MAS	459-503-0003	Even-Aged	VF	11.74
201314	CFE	MAS	459-503-0003	Even-Aged	VF	10.12
201314	CFE	AAS	526-501-0002	Even-Aged	VF	14.42
201314	CFE	AAS	480-508-0007	Even-Aged	VF	12.63
201314	CFE	AAS	480-508-0007	Even-Aged	VF	1.55
201314	CFE	MAS	348-510-0008	Even-Aged	VF	14.66
201314	CFE	MAS	300-917-0005	Even-Aged	VF	21.08
201314	CFE	AAS	480-503-0003	Even-Aged	VF	6.66
201314	CFE	AAS	458-506-0006	Even-Aged	VF	5.75
201314	CFE	MMS	462-505-0025	Even-Aged	VF	3.18
201314	CFE	MMS	462-505-0024	Even-Aged	VF	2.71
201314	CFE	MMS	526-502-0002	Even-Aged	VF	12.05
201314	CFE	MMS	526-502-0007	Even-Aged	VF	16.55
201314	CFE	MAS	300-537-0004	Even-Aged	VF	5.59
201314	CFE	MAS	312-002-0005	Even-Aged	VF	9.42
201314	CFE	MAS	312-002-0005	Even-Aged	VF	3.81
201314	CFE	MAS	312-002-0005	Even-Aged	VF	0.47
201314	CFE	MAS	312-512-0005	Even-Aged	VF	5.64
201314	CFE	MAS	348-517-0006	Even-Aged	VF	3.43
201314	CFE	MAS	348-517-0006	Even-Aged	VF	19.34
201314	CFE	MAS	348-517-0007	Even-Aged	VF	2.66
201314	CFE	MAS	348-517-0007	Even-Aged	VF	0.34
201314	CFE	MAS	348-517-0007	Even-Aged	VF	0.14
201314	CFE	MAS	459-503-0010	Even-Aged	VF	6.17
201314	CFE	MAS	309-508-0014	Even-Aged	VF	14.38
201314	CFE	MAS	309-508-0014	Even-Aged	VF	2.31
201314	STR	MAS	462-509-0002	Even-Aged	VF	7.16
201314	STR	FMS	463-502-0011	Even-Aged	VF	12.63
201314	STR	FMS	463-502-0011	Even-Aged	VF	0.78
201314	STR	FMS	487-501-0007	Even-Aged	VF	13.98
201314	CFE	MMS	283-503-0019	Even-Aged	VF	16.79

SEASON	SILVSYS	FORESTTYPE	COUPE_ADD	COUPE_TYPE	HARV_ORG	AREA_HA
201314	CFE	AAS	287-517-0004	Even-Aged	VF	3.14
201314	CFE	AAS	287-518-0006	Even-Aged	VF	17.26
201314	STR	FMS	462-507-0023	Even-Aged	VF	4.31
201314	STR	FMS	462-511-0001	Even-Aged	VF	2.62
201314	STR	FMS	484-504-0006	Even-Aged	VF	12.31
201314	CFE	MAS	463-505-0007	Even-Aged	VF	6.52
201314	CFE	MAS	348-517-0009	Even-Aged	VF	9.96
201314	CFE	MAS	461-507-0014	Even-Aged	VF	13.23
201314	STR	FMS	460-511-0002	Even-Aged	VF	11.48
201314	CFE	AAS	287-503-0005	Even-Aged	VF	9.58
201314	CFE	AAS	287-511-0001	Even-Aged	VF	21.85
201314	RRH	MAS	298-515-0006	Even-Aged	VF	10.41
201314	CFE	MAS	300-503-0001	Even-Aged	VF	10.55
201314	CFE	MAS	300-503-0003	Even-Aged	VF	5.91
201314	CFE	MAS	300-503-0004	Even-Aged	VF	5.25
201314	STR	FMS	301-548-0003	Even-Aged	VF	20.87
201314	CFE	MAS	309-508-0014	Even-Aged	VF	0.23
201314	RRH	MAS	309-511-0010	Even-Aged	VF	3.06
201314	CFE	AAS	320-501-0017	Even-Aged	VF	15.14
201314	CFE	AAS	320-502-0017	Even-Aged	VF	15.44
201314	CFE	AAS	320-502-0018	Even-Aged	VF	17.09
201314	CFE	AAS	320-502-0023	Even-Aged	VF	1.82
201314	CFE	AAS	287-504-0002	Even-Aged	VF	10.35
201314	CFE	AAS	287-505-0002	Even-Aged	VF	3.01
201314	CFE	AAS	287-508-0003	Even-Aged	VF	1.21
201314	CFE	AAS	457-501-0013	Even-Aged	VF	12.61
201314	STR	MMS	345-512-0002	Even-Aged	VF	11.35
201314	STR	MMS	345-512-0001	Even-Aged	VF	0.20
201314	CFE	MAS	458-506-0006	Even-Aged	VF	0.12
201314	CFE	MAS	458-506-0005	Even-Aged	VF	0.21
201314	CFE	MAS	463-501-0011	Even-Aged	VF	1.78
201314	CFE	AAS	287-508-0004	Even-Aged	VF	9.55
201314	CFE	AAS	287-508-0005	Even-Aged	VF	5.93
201314	CFE	AAS	287-508-0003	Even-Aged	VF	0.94
201314	CFE	AAS	676-530-0006	Even-Aged	VF	4.60
201314	CFE	AAS	676-528-0006	Even-Aged	VF	3.04
201314	CFE	AAS	676-528-0006	Even-Aged	VF	1.67
201314	CFE	AAS	676-528-0005	Even-Aged	VF	6.65
201314	CFE	AAS	676-529-0003	Even-Aged	VF	3.84
201314	CFE	AAS	676-529-0003	Even-Aged	VF	3.36
201314	CFE	AAS	676-529-0003	Even-Aged	VF	0.46
201314	CFE	AAS	676-529-0003	Even-Aged	VF	0.02
201314	CFE	AAS	676-528-0004	Even-Aged	VF	4.76
201314	CFE	AAS	686-506-0006	Even-Aged	VF	10.22

SEASON	SILVSYS	FORESTYPE	COUPE_ADD	COUPE_TYPE	HARV_ORG	AREA_HA
201314	UNL	AAS	286-512-0019	Even-Aged	VF	0.44
201314	CFE	MAS	347-515-0011	Even-Aged	VF	0.14
201314	CFE	MAS	347-515-0011	Even-Aged	VF	0.78
201314	UNL	MAS	347-515-0011	Even-Aged	VF	0.78
201314	CFE	AAS	320-502-0024	Even-Aged	VF	10.41
201314	CFE	AAS	320-502-0019	Even-Aged	VF	4.18
201314	CFE	AAS	320-502-0019	Even-Aged	VF	0.00
201314	CFE	MAS	309-508-0016	Even-Aged	VF	8.20
201314	CFE	MAS	309-508-0017	Even-Aged	VF	14.64
201314	CFE	FMS	833-509-0014	Even-Aged	VF	0.01
201314	CFE	FMS	833-509-0014	Even-Aged	VF	0.10
201314	CFE	FMS	833-509-0014	Even-Aged	VF	0.31
201314	CFE	FMS	833-509-0014	Even-Aged	VF	0.33
201314	CFE	FMS	833-509-0014	Even-Aged	VF	0.74
201314	CFE	FMS	833-509-0014	Even-Aged	VF	2.51
201314	CFE	FMS	833-509-0014	Even-Aged	VF	11.90
201314	CFE	FMS	833-509-0014	Even-Aged	VF	0.05
201314	CFE	FMS	833-509-0014	Even-Aged	VF	0.07
201314	STR	CMS	866-508-0027	Even-Aged	VF	16.04
201314	STR	CMS	866-508-0001	Even-Aged	VF	9.38



# Annual Harvesting and Regeneration Report

2014/15  
September 2015



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## Executive Summary

The Annual Harvesting and Regeneration Report has been developed by VicForests to demonstrate to the Secretary of the Department of Economic Development, Jobs, Transport and Resources how VicForests has met its obligations under section 15 of the *Sustainable Forests (Timber) Act 2004*, whereby on the making of an Allocation Order, VicForests must carry out its functions in accordance with the order.

The Allocation Order (AO) is made by the Minister for Agriculture and Food Security under Part 3 of the *Sustainable Forests (Timber) Act 2004* (SFTA).

The objectives of an AO are to:

- Allocate specified timber resources in State forests to VicForests for the purposes of harvesting and selling, or harvesting or selling timber resources;
- Permit VicForests to undertake associated management activities in relation to that allocated timber and in the areas to which the order applies (e.g. construction of access roads, regeneration activities, thinning and monitoring); and
- Specify relevant conditions and limitations (e.g. minimum planning and reporting requirements, and the maximum five-year harvest area limits)

The current AO is the Allocation (Amendment) Order 2014, published in the Victorian Government Gazette No S 405 on 30 October 2014, which updated provisions set out in the Allocation Order 2013. The Allocation Order 2013 replaced the Allocation to VicForests Order 2004 which covered the period 1 August 2004 to 31 September 2013.

This report specifically addresses Clause 18 of the Allocation (Amendment) Order 2014, whereby VicForests must submit an annual report to the Secretary of DEPI by September 30 each year, describing the area of timber harvested and regeneration results of the preceding financial year for Ash and Mixed Species forest stand types. The report must also include data demonstrating how VicForests is complying with the AO five year harvest area limit (as shown in item 3 of Table 1, of the Allocation (Amendment) Order 2014).

The 2014/15 report represents the second year of the annual process to report the area harvest, regeneration results and demonstrate compliance with the 5-year harvest limits imposed by the Allocation (Amendment) Order 2014. In addition to these requirements, VicForests has included an annual summary of the other authorised activities undertaken in 2014/15.

In 2014/15, VicForests commenced harvesting in 160 TRP coupes, attributing a further 2,273 hectares of AO Gross Coupe Area to the Ash forest type and a further 2,820 hectares of the AO Gross Coupe Area to Mixed Species forest type from their respective five-year area limits.

In Total VicForests has harvested 31% of the Ash Forest 5-year area limit and 7% of the Mixed Species Forest 5-year area limit, and is on track to remain within each of the respective five-year limits.

VicForests 2014/15 season also comprised a net harvest from TRP coupes of 1,297 ha from Clear-felling, 1,452 ha from Seed-tree, 205 ha from Regrowth Retention Harvesting and 80 ha from Uneven-aged silviculture. A total of 8 ha comprised solely of stand tending activities such as thinning or single-tree selection.



In undertaking our annual regeneration responsibilities, VicForests proposed for finalisation a further 8,011 ha, comprising 222 even-aged or uneven-aged coupes assessed as successfully regenerated.

Robert Green  
**CEO VicForests**

## Objectives

The objectives of the Annual Harvesting and Regeneration Report are to provide information on:

1. VicForests' Area of Timber Harvested in 2014/15
2. VicForests' Regeneration Results for 2014/15; and
3. A Summary of VicForests' other Authorised Activities undertaken in 2014/15

## Area of Timber Harvested

Two types of area harvested results will be reported; they are the AO Gross Coupe Area and the Net Harvest Area.

### 1.1 AO Gross Coupe Area

The AO Gross Coupe Area is the total coupe area (a gross area) of a coupe where timber harvesting has commenced in that coupe, reported by the year harvesting first commenced relative to the 5 year AO period.

The AO Coupe Area is the area measurement that is used for comparison with the five-year harvest area limits listed in the AO. The five year harvest limit period is from 2013/14 to 2017/18.

The AO Coupe Area result includes both harvested and not harvested area. The area not harvested will contain areas potentially available for timber harvest and unavailable for harvest – usually because of Code of Practice exclusions or reserves created by VicForests.

This AO Gross Coupe Area is classified into either Ash or Mixed Species forest stand types to identify what proportion of the coupes have been tallied against each of the five-year harvest area limits.

Table 1 indicates that at the end of the 2014/15 financial year, a total of 4,363 hectares had been attributed to the Ash Forest 5-year area limit and 4,854 hectares was attributed to the Mixed Species 5-year area limit. The area's reported in the 2013/14 Annual Harvesting and Regeneration report have been adjusted to reflect the most recent database records from VicForests coupe management system, CENGEA. **Figure 1** shows how VicForests compliance with the 5-year limits is being monitored.

Table 1 2014/15 AO Coupe Area and five-year harvest limit by forest stand type

Forest stand type	AO Five-year harvest limit (Hectares)	2013/14 AO Coupe Area (Hectares)	2014/15 AO Coupe Area (Hectares)	Cumulative AO Area (Period 2013-2018) (Hectares)	% AO 5-Year Harvest Limit Utilised
<b>Ash</b>	14,200	2,090	2,273	4,363	31%
<b>Mixed species</b>	70,000	2,034	2,820	4,854	7%
<b>Notes:</b>					
<i>The area of harvest operations to be included in the comparison with the five-year area limits in the AO are; clear-fell, clear-fell salvage, seed tree (includes retained over-wood), regrowth retention harvesting and uneven-aged silviculture methods.</i>					
<i>Thinning type harvesting is considered tending operations and are not included in this comparison with the AO five-year harvest limits as specified in Clause 11 of the Allocation Order 2013.</i>					
<i>The total area of a coupe is tallied towards the five-year area limits in the Allocation Order when harvesting first commences in that coupe. Where timber harvesting occurs over more than one year or over more than one 5-year period of the AO, the AO Coupe Area will be tallied to the first year and first period in which harvesting first commenced.</i>					
<i>The forest stand type has been determined using the spatial file "Working_forest_area_2013.shp", as supplied to VicForests.</i>					



Figure 1 VicForests AO Compliance Monitoring Chart.

## 1.2 Net Harvest Area

To provide a comparison with the AO Coupe Area, the actual harvest area (the net area), will also be reported. This is the area harvested using each silviculture system reported in VicForests' annual Sustainability Report, broken down into Ash and Mixed Species forest stand types.

The net areas harvested by these silviculture systems will lead to a requirement for the harvested area to be regenerated as the majority of trees are removed from the site. Table 2 outlines the area of timber harvesting undertaken by VicForests during the 2014/15 year, by silviculture system and forest stand type.

Table 2 2014/15 Net Harvest Area by Silviculture system and forest stand type

Forest Stand Type	Clear felling	Clear felling - Salvage	Seed-Tree	Regrowth Retention Harvesting	Uneven-Aged (Seed-tree section)	Uneven-Aged (THB section)	TOTALS
Ash	1,150.2	5.6	16.3	201.3	-	-	1,373.3
Mixed Species	138.8	2.7	1,436.1	4.1	15.0	65.1	1,661.8
<b>TOTALS</b>	<b>1,288.9</b>	<b>8.3</b>	<b>1,452.4</b>	<b>205.3</b>	<b>15.0</b>	<b>65.1</b>	<b>3,035.0</b>
<b>Notes:</b>							
<i>This data is sourced from VicForests 2014-15 Harvesting History shapefile – supplied with this submission.</i>							

## Annual Regeneration Results

Successful regeneration of a coupe is termed 'coupe finalisation' and can only be demonstrated when the entire net harvested area of a coupe has been adequately re-stocked with seedlings, usually established by sowing seed after completion of a regeneration burn.

The annual regeneration program consists of preparing sites where timber harvesting has occurred (site preparation), the establishment of eucalypt seedlings across the net harvested areas (site establishment) and a series seedling stocking surveys to measure regeneration success.



Coupes that have been surveyed and demonstrated to have adequate stocking of the eucalypt species that were present prior to timber harvesting are then nominated for coupe finalisation. Coupes nominated during 2014/15 are shown in Table 3.

## 2.1 Coupes nominated for coupe finalisation

Table 3 VicForests' coupes nominated for finalisation during 2014/15.

Coupe Types	Even-Aged Coupes	Uneven-Aged Coupes	Thinning Coupes	Roadline Coupes	TOTALS
<b>Number of Coupes Finalised</b>	218	4	4	5	<b>231</b>
<b>Gross Coupe Area Finalised</b>	<b>7,652.2</b>	<b>358.9</b>	<b>157.9</b>	<b>316.9</b>	<b>8,485.9</b>
<b>Net Area Harvested and Finalised</b>	4,728.2	244.6	68.1	17.2	5,058.1
<b>Notes:</b>					
<i>This data is sourced from VicForests' CENGEA Database and VicForests' 2014-15 Harvesting History shapefile (supplied).</i>					
<i>All areas are in hectares.</i>					

Additional information on coupes which VicForests has nominated for finalisation in 2014/15 has been supplied in the attached spreadsheet - *VicForests 2014-15 Coupe Finalisation list*.

## Other Authorised Activities

This section outlines associated management activities undertaken by VicForests during the 2014/15 year as authorised within Clause 10 of the Allocation Order 2013, which includes activities such as seed collection and stand-tending.

### 3.1 Seed collection

Seed collection is undertaken annually to maintain adequate seed-stock to facilitate future site establishment of harvested areas.

Table 4 shows the amount of seed collected by VicForests during the 2014/15 year by forest type and method of collection.

Table 4 Seed collection by species group completed by VicForests during 2014/15.

Forest Type	Seed Collection Amount (Kilograms)		
	Ground Collection	Climbing	Total
<b>Ash Species</b>	741.6	66.6	<b>808.2</b>
<b>Mixed Species</b>	441.9	129.7	<b>571.7</b>
<b>TOTAL</b>	<b>1,183.5</b>	<b>196.3</b>	<b>1,379.9</b>
<b>Notes:</b>			
<i>The data in this table is sourced from VicForests' Seed-bank database.</i>			
<i>All figures are in kilograms.</i>			
<i>Ash species includes alpine ash, mountain ash and shining gum. All other species are considered as mixed species.</i>			

### 3.2 Stand Tending

Forest stand tending incorporates activity undertaken to manage or manipulate a forest stand while continuing to let the stand grow. Table 5 shows the net areas of stand tending activity undertaken by VicForests during the 2014/15 year.

Table 5 The area of stand tending activities by forest stand type undertaken in 2014/15.

Stand Type	Thinning from Above	Thinning from Below	Single-Tree Selection	TOTALS
Ash	-	-	-	-
Mixed Species	-	-	8.2	8.2
<b>TOTALS</b>	-	-	<b>8.2</b>	<b>8.2</b>
<b>Notes:</b>				
<i>The data in this table is sourced from VicForests' 2014-15 Harvesting History shapefile, which is included with this submission.</i>				

The following attachments also form part of VicForests' Annual Harvesting and Regeneration Report:

1. VicForests' 2014-15 Harvesting History shapefile, including the following components:
  - a. VF\_Harvesting\_History\_2014-15\_Final\_20150930.dbf
  - b. VF\_Harvesting\_History\_2014-15\_Final\_20150930.prj
  - c. VF\_Harvesting\_History\_2014-15\_Final\_20150930.sbn
  - d. VF\_Harvesting\_History\_2014-15\_Final\_20150930.sbx
  - e. VF\_Harvesting\_History\_2014-15\_Final\_20150930.shp
  - f. VF\_Harvesting\_History\_2014-15\_Final\_20150930.shp.xml
  - g. VF\_Harvesting\_History\_2014-15\_Final\_20150930.shx
2. VicForests' 2014-15 Coupe Finalisation List

Stand type	FMA	District	Coupe address	Roadline	Forest type	Silvi type	TRP Area	Harvested area	Admin Org
Even-aged	Central	Alexandra	283-502-0011	No	MMS	CFS	58.22	39.99	VicForests
Thinning	Central	Alexandra	285-015-0002	No	AAS	THB	58.86	11.28	VicForests
Even-aged	Central	Alexandra	285-516-0004	No	AAS	CFS	72.28	26	VicForests
Even-aged	Central	Alexandra	286-509-0003	No	AAS	CFE	27.6	15.51	VicForests
Even-aged	Central	Alexandra	286-512-0009	No	MMS	CFE	24.29	16.38	VicForests
Even-aged	Central	Alexandra	286-512-0011	No	MMS	CFE	34.86	17.86	VicForests
Even-aged	Central	Alexandra	286-512-0014	No	MAS	CFE	22.47	10.29	VicForests
Even-aged	Central	Alexandra	286-512-0017	No	AAS	CFE	22.26	15.54	VicForests
Even-aged	Central	Alexandra	286-512-0018	No	MAS	CFE	35.38	22.37	VicForests
Even-aged	Central	Alexandra	286-515-0004	No	AAS	CFS	80.86	27.08	VicForests
Even-aged	Central	Alexandra	287-012-0022	No	AAS	CFE	41.04	26.14	VicForests
Even-aged	Central	Alexandra	287-507-0001	No	MAS	CFE	31.49	22.06	VicForests
Even-aged	Central	Alexandra	287-509-0004	No	AAS	CFE	24.72	22.77	VicForests
Even-aged	Central	Alexandra	287-511-0008	No	AAS	CFE	12.68	7.83	VicForests
Even-aged	Central	Alexandra	287-512-0028	No	AAS	CFE	22.43	18.47	VicForests
Even-aged	Central	Alexandra	287-513-0003	No	AAS	CFE	32.56	21.95	VicForests
Even-aged	Central	Alexandra	287-514-0004	No	AAS	CFE	17.41	11.73	VicForests
Even-aged	Central	Alexandra	287-515-0006	No	AAS	CFE	45.62	26.8	VicForests
Even-aged	Central	Alexandra	288-520-0006	No	AAS	CFE	34.16	21.09	VicForests
Thinning	Central	Toolangi	297-501-0004	No	MAS	THB	39.67	18.59	VicForests
Thinning	Central	Toolangi	297-503-0002	No	MAS	THB	22.86	13	VicForests
Even-aged	Central	Toolangi	299-973-0030	No	MAS	CFE	39.56	20.78	VicForests
Even-aged	Central	Toolangi	300-945-0007	No	MAS	CFE	46.86	29.77	VicForests
Even-aged	Central	Toolangi	301-548-0001	No	MMS	STR	34.38	22.98	VicForests
Even-aged	Central	Toolangi	301-553-0001	No	MAS	CFS	58.63	29.32	VicForests
Even-aged	Central	Toolangi	301-554-0001	No	MAS	CFS	57.96	22.71	VicForests
Even-aged	Central	Toolangi	301-556-0004	No	MMS	STR	27.09	19.05	VicForests
Even-aged	Central	Toolangi	301-557-0002	No	FMS	STR	33.75	13.37	VicForests
Even-aged	Central	Toolangi	301-559-0001	No	MAS	CFS	25.83	7.41	VicForests
Even-aged	Central	Toolangi	301-563-0001	No	MAS	CFS	82.68	40.31	VicForests
Even-aged	Central	Toolangi	307-002-0024	No	FMS	CFS	87.15	113.37	Shared
Thinning	Central	Toolangi	307-002-0027	No	FMS	THB	36.51	25.21	VicForests
Even-aged	Central	Marysville	309-005-0003	No	FMS	STR	39.18	36.31	VicForests
Even-aged	Central	Marysville	309-008-0011	No	MAS	CFS	17.49	13.39	VicForests
Even-aged	Central	Marysville	309-512-0004	No	MAS	CFE	27.96	21.43	VicForests
Even-aged	Central	Marysville	310-504-0008	No	MAS	CFS	50.33	23.06	VicForests
Even-aged	Central	Marysville	311-501-0007	No	AAS	CFS	104.16	12.85	VicForests
Even-aged	Central	Marysville	311-504-0005	No	AAS	CFS	119.95	44.03	VicForests
Even-aged	Central	Marysville	312-006-0008	No	MAS	CFE	31.84	17.32	VicForests
Even-aged	Central	Marysville	312-010-0005	No	MAS	CFE	51.99	23.5	Shared
Even-aged	Central	Marysville	312-011-0005	No	AAS	CFE	30.34	4.1	Shared
Even-aged	Central	Marysville	312-512-0008	No	MAS	CFE	57.57	20.44	VicForests
Even-aged	Central	Marysville	320-501-0015	No	AAS	CFE	39.95	8.28	VicForests
Even-aged	Central	Marysville	320-502-0016	No	AAS	CFE	45.27	30.42	VicForests
Even-aged	Central	Marysville	320-503-0003	No	AAS	CFE	32.85	8.41	VicForests
Even-aged	Central	Marysville	320-503-0011	No	AAS	CFE	28.6	17.48	VicForests
Even-aged	Central	Marysville	320-503-0016	No	AAS	CFE	45.51	28.08	VicForests
Even-aged	Dandenong	Powelltown	344-505-0003	No	MAS	CFE	31.06	13.4	VicForests
Even-aged	Dandenong	Powelltown	344-520-0004	No	MAS	CFE	14.64	12.96	VicForests
Even-aged	Dandenong	Powelltown	345-503-0003	No	MAS	CFE	16.76	0.55	VicForests
Even-aged	Dandenong	Powelltown	347-501-0005	No	MAS	CFE	17.67	11.51	VicForests
Even-aged	Dandenong	Powelltown	348-510-0002	No	MAS	CFE	54.55	12.68	VicForests
Even-aged	Dandenong	Powelltown	348-510-0006	No	MAS	CFE	39.97	20.03	VicForests
Even-aged	Dandenong	Powelltown	348-520-0002	No	MAS	CFE	37.75	21.85	VicForests
Even-aged	Dandenong	Powelltown	348-537-0005	No	MAS	CFE	9.33	6.25	VicForests
Even-aged	Dandenong	Powelltown	349-516-0006	No	FMS	STR	26.92	18.53	VicForests
Even-aged	Benalla-Mansfield	Benalla/Mansfield	377-503-0001	No	AAS	CFE	25.58	12.15	VicForests
Even-aged	Benalla-Mansfield	Benalla/Mansfield	377-503-0003	No	AAS	CFS	42.3	11.03	VicForests
Even-aged	Benalla-Mansfield	Benalla/Mansfield	377-504-0001	No	AAS	CFS	104.11	34.65	VicForests
Even-aged	Benalla-Mansfield	Benalla/Mansfield	384-505-0006	No	AAS	CFE	33.52	9.22	VicForests
Even-aged	Benalla-Mansfield	Benalla/Mansfield	389-503-0003	No	AAS	CFE	47.94	28.46	VicForests
Even-aged	Benalla-Mansfield	Benalla/Mansfield	397-504-0002	No	FMS	GSE	57.43	25.87	VicForests
Uneven-aged	Benalla-Mansfield	Benalla/Mansfield	411-502-0001	No	FMS	STS	120.25	113.85	VicForests
Even-aged	Central Gippsland	Noojee	457-501-0009	No	AAS	CFE	32.22	22.86	VicForests
Even-aged	Central Gippsland	Noojee	457-501-0014	No	AAS	CFE	32.74	26.59	VicForests
Roadline	Central Gippsland	Noojee	457-508-0000	Yes	MMS	RDI	8.3		VicForests
Even-aged	Central Gippsland	Noojee	458-506-0004	No	SHG	CFE	54.14	24.06	VicForests
Even-aged	Central Gippsland	Noojee	458-508-0009	No	AAS	CFS	38.96	19.01	VicForests

Even-aged	Central Gippsland	Noojee	460-510-0031	No	MMS	CFE	33.21	26.29	VicForests
Even-aged	Central Gippsland	Noojee	461-502-0001	No	FMS	STR	24.33	18.08	VicForests
Even-aged	Central Gippsland	Noojee	462-505-0022	No	FMS	STR	54.45	36.6	VicForests
Even-aged	Central Gippsland	Noojee	462-507-0014	No	FMS	STR	50.46	29.74	VicForests
Even-aged	Central Gippsland	Noojee	462-512-0008	No	FMS	STR	38.83	26.61	VicForests
Even-aged	Central Gippsland	Noojee	463-503-0016	No	FMS	STR	23.45	16.81	VicForests
Even-aged	Central Gippsland	Noojee	463-504-0008	No	MAS	CFE	36.19	31.7	VicForests
Even-aged	Central Gippsland	Noojee	463-505-0006	No	MAS	CFE	20.56	13.57	VicForests
Even-aged	Central Gippsland	Noojee	464-506-0001	No	MAS	CFE	28.66	20.21	VicForests
Even-aged	Central Gippsland	Noojee	464-506-0007	No	MAS	CFS	70.37	34.3	VicForests
Even-aged	Central Gippsland	Noojee	464-506-0010	No	FMS	CFS	78.12	34.21	VicForests
Even-aged	Central Gippsland	Noojee	465-503-0008	No	MAS	STR	27.37	19.23	VicForests
Even-aged	Central Gippsland	Noojee	465-503-0011	No	MAS	CFE	39.13	24.34	VicForests
Even-aged	Central Gippsland	Noojee	467-504-0007	No	FMS	STR	25.64	16.71	VicForests
Even-aged	Central Gippsland	Erica	480-506-0022	No	AAS	CFE	17.32	12.7	VicForests
Even-aged	Central Gippsland	Erica	480-509-0006	No	AAS	CFE	13.58	4.48	VicForests
Even-aged	Central Gippsland	Erica	480-509-0007	No	MAS	CFE	10.56	5.65	VicForests
Even-aged	Central Gippsland	Erica	480-509-0021	No	AAS	CFE	22.13	12.13	VicForests
Even-aged	Central Gippsland	Erica	481-505-0024	No	MAS	CFE	44.66	22.2	VicForests
Even-aged	Central Gippsland	Erica	482-501-0051	No	MAS	CFE	19.03	3.64	VicForests
Even-aged	Central Gippsland	Erica	483-502-0015	No	FMS	STR	34.7	28.44	VicForests
Even-aged	Central Gippsland	Erica	483-506-0001	No	FMS	CFE	34.68	20.29	VicForests
Even-aged	Central Gippsland	Erica	486-503-0018	No	FMS	STR	23.64	18.26	VicForests
Even-aged	Central Gippsland	Erica	487-501-0005	No	MMS	CFE	44.55	21.49	VicForests
Even-aged	Central Gippsland	Erica	490-513-0022	No	FMS	STR	29.1	26.43	VicForests
Even-aged	Central Gippsland	Heyfield	524-503-0004	No	AAS	CFE	50.76	22.86	VicForests
Even-aged	Central Gippsland	Heyfield	524-503-0006	No	AAS	CFE	27.03	11.08	VicForests
Even-aged	North East	Upper Murray	676-502-0001	No	AAS	CFE	22.19	13.98	VicForests
Even-aged	North East	Upper Murray	676-530-0010	No	AAS	CFE	30.8	19.9	VicForests
Even-aged	North East	Upper Murray	684-514-0004	No	AAS	CFE	50.61	19.55	VicForests
Even-aged	North East	Upper Murray	684-514-0005	No	AAS	CFE	43.87	28.16	VicForests
Even-aged	Tambo	Swifts Creek	711-506-0015	No	AAS	CFE	43.4	31.11	VicForests
Even-aged	Tambo	Swifts Creek	711-506-0024	No	AAS	CFE	2.51	2.05	VicForests
Even-aged	Tambo	Swifts Creek	712-503-0004	No	AAS	CFE	35.5	20.62	VicForests
Even-aged	Tambo	Swifts Creek	712-503-0006	No	AAS	CFE	27.45	22.11	VicForests
Even-aged	Tambo	Swifts Creek	712-503-0007	No	AAS	CFE	31.31	26.28	VicForests
Even-aged	Tambo	Bairnsdale	722-504-0004	No	FMS	STR	33.52	22.49	VicForests
Even-aged	Tambo	Bairnsdale	735-508-0011	No	FMS	STR	38.5	33.05	VicForests
Even-aged	Tambo	Bairnsdale	735-510-0024	No	CMS	STR	30.39	24.48	VicForests
Even-aged	Tambo	Bairnsdale	735-518-0005	No	FMS	STR	36.48	29.07	VicForests
Even-aged	Tambo	Bairnsdale	735-519-0012	No	CMS	STR	9.15	7.67	VicForests
Even-aged	Tambo	Bairnsdale	735-519-0013	No	CMS	STR	40.16	30.67	VicForests
Roadline	Tambo	Bairnsdale	735-519-0014	Yes	CMS	CFE	4.33	1.84	VicForests
Even-aged	Tambo	Bairnsdale	740-506-0004	No	FMS	STR	36.31	30.01	VicForests
Even-aged	Tambo	Bairnsdale	740-508-0003	No	FMS	STR	44.37	40.09	VicForests
Even-aged	Tambo	Bairnsdale	742-513-0006	No	CMS	STR	29.57	27.15	VicForests
Even-aged	Tambo	Bairnsdale	742-513-0007	No	CMS	STR	26.11	18.72	VicForests
Even-aged	Tambo	Bairnsdale	742-514-0005	No	FMS	STR	31.41	31.17	VicForests
Roadline	Tambo	Swifts Creek	749-516-0005	Yes	AMS	RDI	52.21	10.38	VicForests
Even-aged	Tambo	Swifts Creek	760-504-0014	No	AAS	CFE	31.81	23.24	VicForests
Even-aged	Tambo	Swifts Creek	760-504-0020	No	AAS	CFE	25.88	11.45	VicForests
Even-aged	Tambo	Swifts Creek	760-505-0011	No	AAS	RDC	22.31	13.75	VicForests
Even-aged	Tambo	Swifts Creek	760-505-0012	No	AAS	CFE	13.55	4.35	VicForests
Even-aged	Tambo	Swifts Creek	764-503-0010	No	AAS	CFE	28.94	24.32	VicForests
Even-aged	Tambo	Swifts Creek	764-503-0011	No	AAS	CFE	16.77	11.15	VicForests
Even-aged	Tambo	Swifts Creek	764-503-0013	No	AAS	CFE	20	15.61	VicForests
Roadline	Tambo	Swifts Creek	765-502-0104	Yes	AAS	RDI	202.31	4.95	VicForests
Even-aged	Tambo	Swifts Creek	765-502-0117	No	AAS	CFE	42.17	17.87	VicForests
Even-aged	Tambo	Swifts Creek	765-503-0006	No	AAS	CFE	38.77	19.3	VicForests
Even-aged	Tambo	Swifts Creek	767-502-0014	No	AAS	CFE	12.27	5.06	VicForests
Even-aged	Tambo	Swifts Creek	771-507-0012	No	AAS	CFE	17.17	10.28	VicForests
Even-aged	Tambo	Swifts Creek	771-507-0013	No	AAS	CFE	42.5	36.31	VicForests
Even-aged	Tambo	Swifts Creek	771-507-0017	No	AMS	CFE	22.96	19.02	VicForests
Even-aged	Tambo	Swifts Creek	771-507-0018	No	MMS	CFE	35.42	22.89	VicForests
Even-aged	Tambo	Swifts Creek	773-501-0021	No	AAS	STR	17.76	13.79	VicForests
Even-aged	Tambo	Swifts Creek	774-502-0009	No	MAS	CFS	16.21	16.07	VicForests
Even-aged	Tambo	Swifts Creek	774-502-0010	No	MAS	CFE	28.07	14.11	VicForests
Even-aged	Tambo	Swifts Creek	774-504-0004	No	MMS	GSE	22.57	19.78	VicForests
Even-aged	Tambo	Swifts Creek	775-506-0006	No	MMS	STR	28.79	28.16	VicForests

Even-aged	Tambo	Swifts Creek	776-504-0017	No	MAS	CFS	29.29	20.97	VicForests
Even-aged	Tambo	Swifts Creek	776-504-0021	No	MMS	STR	22.2	22.21	VicForests
Even-aged	Tambo	Swifts Creek	777-501-0011	No	MMS	CFE	30.74	18.01	VicForests
Even-aged	East Gippsland	Nowa Nowa	801-507-0003	No	CMS	STR	43.78	48.59	VicForests
Even-aged	East Gippsland	Nowa Nowa	801-507-0005	No	CMS	STR	46.58	27.77	VicForests
Even-aged	East Gippsland	Nowa Nowa	801-507-0015	No	CMS	STR	48.76	34.41	VicForests
Even-aged	East Gippsland	Nowa Nowa	803-504-0023	No	CMS	STR	28.74	21.2	VicForests
Even-aged	East Gippsland	Nowa Nowa	804-503-0001	No	CMS	STR	42.28	47.35	VicForests
Even-aged	East Gippsland	Nowa Nowa	805-501-0006	No	CMS	STR	44.63	32.26	VicForests
Even-aged	East Gippsland	Nowa Nowa	805-501-0008	No	FMS	STR	27.25	23.75	VicForests
Even-aged	East Gippsland	Nowa Nowa	805-502-0008	No	FMS	STR	30.91	26.98	VicForests
Even-aged	East Gippsland	Nowa Nowa	806-501-0012	No	FMS	STR	23.73	18.85	VicForests
Even-aged	East Gippsland	Nowa Nowa	806-501-0013	No	FMS	STR	14.43	12.53	VicForests
Even-aged	East Gippsland	Nowa Nowa	806-501-0015	No	FMS	STR	33.31	29.07	VicForests
Even-aged	East Gippsland	Nowa Nowa	810-501-0007	No	FMS	STR	9.95	38.44	VicForests
Even-aged	East Gippsland	Nowa Nowa	811-504-0012	No	MMS	STR	18.19	18.08	VicForests
Even-aged	East Gippsland	Nowa Nowa	811-504-0013	No	AMS	STR	30.02	26.09	VicForests
Even-aged	East Gippsland	Nowa Nowa	814-503-0004	No	FMS	STR	15.08	11.43	VicForests
Even-aged	East Gippsland	Nowa Nowa	814-503-0005	No	MMS	STR	28.98	25.23	VicForests
Uneven-aged	East Gippsland	Nowa Nowa	814-512-0006	No	FMS	UNE	119.66	79.53	VicForests
Even-aged	East Gippsland	Nowa Nowa	815-501-0002	No	AMS	STR	27.23	25.38	VicForests
Even-aged	East Gippsland	Nowa Nowa	817-501-0006	No	AAS	CFE	40.55	15.5	VicForests
Even-aged	East Gippsland	Nowa Nowa	817-501-0007	No	AAS	CFE	22.01	9.28	VicForests
Even-aged	East Gippsland	Nowa Nowa	817-501-0009	No	AAS	CFE	44.71	18.34	VicForests
Even-aged	East Gippsland	Nowa Nowa	817-502-0014	No	AAS	CFE	49.62	22.77	VicForests
Even-aged	East Gippsland	Orbost	823-509-0002	No	CMS	STR	50.64	30.85	Shared
Even-aged	East Gippsland	Orbost	823-509-0003	No	CMS	STR	42.73	44.14	VicForests
Even-aged	East Gippsland	Orbost	824-509-0004	No	CMS	STR	32.54	15.58	VicForests
Even-aged	East Gippsland	Orbost	825-511-0010	No	FMS	STR	30.89	27.91	VicForests
Even-aged	East Gippsland	Orbost	825-511-0011	No	FMS	STR	24.71	20.64	VicForests
Roadline	East Gippsland	Orbost	825-512-0007	No	FMS	RDC	49.7		VicForests
Even-aged	East Gippsland	Orbost	825-516-0010	No	FMS	STR	40.98	27.26	VicForests
Even-aged	East Gippsland	Orbost	827-505-0008	No	FMS	STR	48.62	21.64	VicForests
Even-aged	East Gippsland	Orbost	827-505-0011	No	FMS	STR	46.28	16.93	VicForests
Even-aged	East Gippsland	Orbost	827-515-0007	No	FMS	STR	47.46	23.12	VicForests
Even-aged	East Gippsland	Orbost	827-517-0010	No	FMS	STR	30.37	12.9	VicForests
Even-aged	East Gippsland	Orbost	827-517-0011	No	FMS	STR	33.5	12.11	VicForests
Even-aged	East Gippsland	Orbost	827-517-0012	No	FMS	STR	34.09	20.15	VicForests
Uneven-aged	East Gippsland	Orbost	827-517-0013	No	FMS	UNE	28.61	18.95	VicForests
Even-aged	East Gippsland	Orbost	827-519-0014	No	FMS	STR	35.53	36.54	VicForests
Even-aged	East Gippsland	Orbost	827-519-0016	No	FMS	STR	9.59	8.24	VicForests
Even-aged	East Gippsland	Orbost	829-507-0012	No	FMS	STR	27.9	22.93	VicForests
Even-aged	East Gippsland	Orbost	829-516-0008	No	FMS	STR	51.68	16.47	VicForests
Even-aged	East Gippsland	Orbost	829-516-0019	No	FMS	STR	25.25	8.93	VicForests
Even-aged	East Gippsland	Orbost	830-502-0015	No	MMS	STR	30.26	16.84	VicForests
Even-aged	East Gippsland	Orbost	830-502-0016	No	FMS	STR	23.35	20.02	VicForests
Even-aged	East Gippsland	Orbost	830-503-0006	No	FMS	STR	27.06	14.88	VicForests
Even-aged	East Gippsland	Orbost	830-504-0007	No	FMS	STR	33.06	22.28	VicForests
Even-aged	East Gippsland	Orbost	831-506-0018	No	FMS	STR	21.18	11.62	VicForests
Even-aged	East Gippsland	Orbost	831-506-0019	No	FMS	STR	27.11	11.15	VicForests
Even-aged	East Gippsland	Orbost	832-501-0022	No	FMS	STR	28.78	19.26	VicForests
Even-aged	East Gippsland	Orbost	833-508-0003	No	FMS	STR	21.43	12.33	VicForests
Even-aged	East Gippsland	Orbost	833-508-0010	No	FMS	STR	34.71	15.66	VicForests
Even-aged	East Gippsland	Orbost	833-509-0014	No	FMS	CFE	37.82	27.29	VicForests
Even-aged	East Gippsland	Orbost	833-516-0007	No	CMS	STR	27.08	20.97	VicForests
Even-aged	East Gippsland	Orbost	836-514-0018	No	FMS	STR	29.95	12.53	VicForests
Even-aged	East Gippsland	Orbost	836-515-0009	No	FMS	STR	45.79	3.46	VicForests
Even-aged	East Gippsland	Orbost	842-510-0014	No	FMS	STR	45.87	36.46	VicForests
Even-aged	East Gippsland	Orbost	842-510-0015	No	FMS	STR	50.13	39.4	VicForests
Even-aged	East Gippsland	Orbost	842-510-0019	No	FMS	STR	40.68	31.24	VicForests
Even-aged	East Gippsland	Orbost	842-515-0020	No	FMS	STR	40.43	20.58	VicForests
Even-aged	East Gippsland	Orbost	842-516-0019	No	FMS	STR	34.09	16.06	VicForests
Even-aged	East Gippsland	Orbost	844-501-0011	No	FMS	STR	43.03	20.65	VicForests
Even-aged	East Gippsland	Orbost	844-501-0013	No	FMS	STR	31.71	15.51	VicForests
Even-aged	East Gippsland	Orbost	844-501-0014	No	FMS	STR	22.66	14.67	VicForests
Even-aged	East Gippsland	Orbost	844-502-0007	No	FMS	STR	28.81	23.29	VicForests
Even-aged	East Gippsland	Orbost	844-502-0012	No	FMS	STR	33.27	14.02	VicForests
Even-aged	East Gippsland	Cann River	853-507-0005	No	FMS	STR	39.85	34.2	VicForests
Even-aged	East Gippsland	Cann River	854-502-0006	No	CMS	CFE	36.6	21.48	VicForests



Even-aged	East Gippsland	Cann River	854-502-0007	No	CMS	CFE	37.44	30.39	VicForests
Even-aged	East Gippsland	Cann River	854-502-0008	No	CMS	CFE	29.26	28.44	VicForests
Even-aged	East Gippsland	Cann River	854-502-0014	No	CMS	CFE	40.75	35.28	VicForests
Uneven-aged	East Gippsland	Cann River	855-501-0005	No	CMS	UNE	90.42	32.29	VicForests
Even-aged	East Gippsland	Cann River	866-511-0007	No	CMS	STR	42.35	24.03	VicForests
Even-aged	East Gippsland	Cann River	869-501-0004	No	FMS	STR	41.18	4.31	VicForests
Even-aged	East Gippsland	Cann River	871-506-0017	No	CMS	STR	43.5	17.71	VicForests
Even-aged	East Gippsland	Cann River	885-514-0009	No	FMS	STR	35.34	8.8	VicForests
Even-aged	East Gippsland	Bendoc	891-512-0002	No	MMS	STR	24.22	18.49	VicForests
Even-aged	East Gippsland	Bendoc	891-512-0005	No	MMS	STR	37.16	23.44	VicForests
Even-aged	East Gippsland	Bendoc	891-515-0007	No	MMS	STR	51.83	35.41	VicForests
Even-aged	East Gippsland	Bendoc	891-516-0029	No	AAS	STR	20.49	13.41	VicForests
Even-aged	East Gippsland	Bendoc	891-516-0032	No	MMS	STR	32.31	23.8	VicForests
Even-aged	East Gippsland	Bendoc	892-504-0003	No	AMS	STR	36.44	33.21	VicForests
Even-aged	East Gippsland	Bendoc	892-505-0010	No	MMS	STR	20.68	21.52	VicForests
Even-aged	East Gippsland	Bendoc	892-513-0014	No	MMS	STR	32.78	27.8	VicForests
Even-aged	East Gippsland	Bendoc	892-518-0005	No	MMS	STR	38.08	34.17	VicForests
Even-aged	East Gippsland	Bendoc	892-518-0007	No	MMS	STR	28.63	25.96	VicForests
Even-aged	East Gippsland	Bendoc	892-519-0012	No	MMS	THB	50.04	37.15	VicForests
Even-aged	East Gippsland	Bendoc	893-506-0013	No	MMS	STR	51.05	31.67	VicForests
Even-aged	East Gippsland	Bendoc	894-505-0006	No	MMS	STR	40.72	38.22	VicForests
Even-aged	East Gippsland	Bendoc	894-505-0014	No	MMS	STR	26.93	12.53	VicForests
Even-aged	East Gippsland	Bendoc	894-505-0016	No	MMS	STR	20.3	13.97	VicForests
Even-aged	East Gippsland	Bendoc	895-507-0007	No	MMS	STR	14.46	13.56	VicForests
Even-aged	East Gippsland	Bendoc	895-510-0007	No	MMS	STR	31.01	25.66	VicForests



# Annual Harvesting and Regeneration Report

2015/16  
September 2016

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## Executive Summary

The Annual Harvesting and Regeneration Report has been developed by VicForests to demonstrate to the Secretary of the Department of Economic Development, Jobs, Transport and Resources (DEDJTR) how VicForests has met its obligations under section 15 of the *Sustainable Forests (Timber) Act 2004*, whereby on the making of an Allocation Order, VicForests must carry out its functions in accordance with the order.

The Allocation Order (AO) is made by the Minister for Agriculture under Part 3 of the *Sustainable Forests (Timber) Act 2004*.

The objectives of an AO are to:

- Allocate specified timber resources in State forests to VicForests for the purposes of harvesting and selling, or harvesting or selling timber resources;
- Permit VicForests to undertake associated management activities in relation to that allocated timber and in the areas to which the order applies (e.g. construction of access roads, regeneration activities, thinning and monitoring); and
- Specify relevant conditions and limitations (e.g. minimum planning and reporting requirements, and the maximum five-year harvest area limits)

The current AO is the Allocation (Amendment) Order 2014, published in the Victorian Government Gazette No S 405 on 30 October 2014, which updated provisions set out in the Allocation Order 2013. The Allocation Order 2013 replaced the Allocation to VicForests Order 2004 which covered the period 1 August 2004 to 31 September 2013.

This report specifically addresses Clause 18 of the Allocation (Amendment) Order 2014, whereby VicForests must submit an annual report to the Secretary of DEDJTR by September 30 each year, describing the area of timber harvested and regeneration results of the preceding financial year for Ash and Mixed Species forest stand types. The report must also include data demonstrating how VicForests is complying with the AO 5-year harvest area limit (as shown in item 3 of Table 1, of the Allocation (Amendment) Order 2014).

The 2015/16 report represents the third year of the annual process to report the area of harvest, regeneration results and to demonstrate compliance with the 5-year harvest limits imposed by the Allocation (Amendment) Order 2014. In addition to these requirements, VicForests has included an annual summary of other authorised activities undertaken in 2015/16.

In 2015/16, VicForests commenced harvesting in 166 Timber Release Plan (TRP) coupes, attributing a further 2,583 hectares of AO Gross Coupe Area to the Ash forest type and a further 2,847 hectares of the AO Gross Coupe Area to Mixed Species forest type from their respective 5-year area limits.

In total, VicForests has harvested 49% of the Ash Forest 5-year area limit and 11% of the Mixed Species Forest 5-year area limit, and is on track to remain within each of the respective five-year limits.

VicForests 2015/16 season also comprised of a net harvest from TRP coupes of 1,129 hectares from Clear-felling, 1,303 hectares from Seed-tree, 407 hectares from Regrowth Retention Harvesting and 15 hectares from Uneven-aged silviculture. A total of 48 hectares comprised solely of stand tending activities such as thinning or single-tree selection silviculture.

In undertaking our annual regeneration responsibilities, VicForests proposed for finalisation a further 3,520 hectares, comprising 91 coupes assessed as being successfully regenerated or otherwise stocked.

Robert Green  
**CEO VicForests**



## Objectives

The objectives of the VicForests Annual Harvesting and Regeneration Report are to provide information on:

1. VicForests' area of timber harvested in 2015/16
2. VicForests' regeneration results for 2015/16; and
3. A summary of VicForests' other authorised activities undertaken in 2015/16

## Area of Timber Harvested

Two types of area harvested results will be reported; they are the AO Gross Coupe Area and the Net Harvest Area.

### 1.1 AO Gross Coupe Area

The AO Gross Coupe Area is the total coupe area (a gross area) of a coupe where timber harvesting has commenced in that coupe, reported by the year harvesting first commenced relative to the 5-year AO period.

The AO Gross Coupe Area is the area measurement that is used for comparison with the five-year harvest area limits listed in the AO. The five year harvest limit period is from 2013/14 to 2017/18.

The AO Gross Coupe Area result includes both harvested and un-harvested areas. The area not harvested will contain areas potentially available for timber harvest and areas unavailable for harvest – usually because of *Code of Practice for Timber Production 2014* exclusions or reserves created by VicForests.

This AO Gross Coupe Area is classified into either Ash or Mixed Species forest stand types to identify what proportion of the coupes have been tallied against each of the 5-year harvest area limits.

**Table 1** indicates that at the end of the 2015/16 financial year, a total of 2,583 hectares had been attributed to the Ash Forest 5-year area limit and 2,847 hectares was attributed to the Mixed Species 5-year area limit. The areas reported in the 2013/14 and 2014/15 Annual Harvesting and Regeneration Report have been adjusted to reflect the most recent database records from VicForests coupe management system, CENGEA. **Figure 1** shows how VicForests compliance with the 5-year limits is being monitored.

Table 1 2015/16 AO Gross Coupe Area and five-year harvest limit by forest stand type

Forest Stand Type	AO Five-year harvest limit (Hectares)	2013/14 AO Gross Coupe Area (Hectares)	2014/15 AO Gross Coupe Area (Hectares)	2015/16 AO Gross Coupe Area (Hectares)	Cumulative AO Area (Period 2013-2018) (Hectares)	% AO 5-Year Harvest Limit Utilised
Ash	14,200	2,090	2,273	2,583	6,946	49%
Mixed Species	70,000	2,034	2,820	2,847	7,702	11%
<b>Notes:</b>						
The area of harvest operations to be included in the comparison with the five-year area limits in the AO are: clear-fell, clear-fell salvage, seed tree (includes retained over-wood), regrowth retention harvesting and uneven-aged silviculture methods.						
Thinning type harvesting is considered tending operations and are not included in this comparison with the AO five-year harvest limits as specified in Clause 11 of the Allocation Order 2013.						
The total area of a coupe is tallied towards the five-year area limits in the Allocation Order when harvesting first commences in that coupe. Where timber harvesting occurs over more than one year or over more than one 5-year period of the AO, the AO Gross Coupe Area will be tallied to the first year and first period in which harvesting first commenced.						
The forest stand type has been determined using the spatial file "Working_forest_area_2013.shp", as supplied to VicForests.						



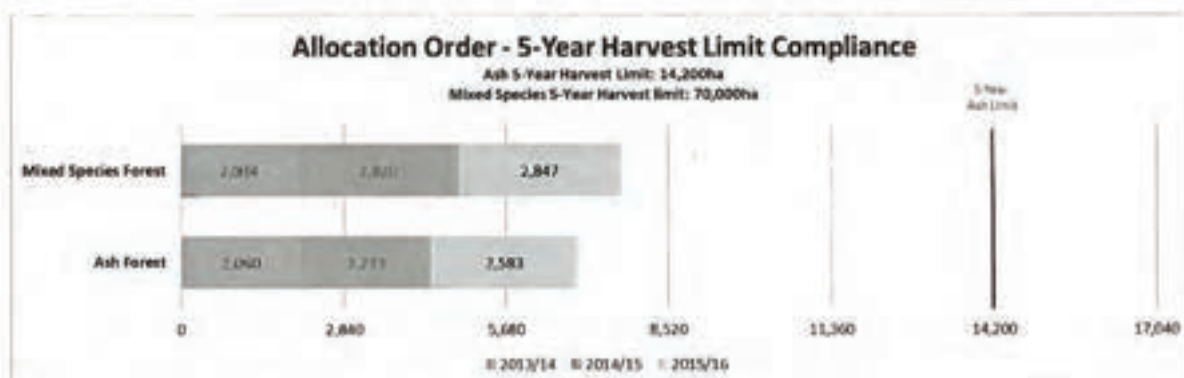


Figure 1. VicForests AO Compliance Monitoring Chart.

## 1.2 Net Harvest Area

To provide a comparison with the AO Gross Coupe Area, the actual harvest area (the net area), will also be reported. This is the area harvested using each silviculture system reported in VicForests' annual Sustainability Report; broken down into Ash and Mixed Species forest stand types.

The net areas harvested by these silviculture systems will lead to a requirement for the harvested area to be regenerated as the majority of trees are removed from the site.

Table 2 outlines the area of timber harvesting undertaken by VicForests during the 2015/16 year, by silviculture system and by forest stand type.

Table 2 2015/16 Net Harvest Area by silviculture system and forest stand type

Forest Stand Type	Clear felling	Clear felling - Salvage	Seed-Tree	Regrowth Retention Harvesting	Uneven-Aged (Seed-tree section)	Uneven-Aged (THB section)	TOTALS
Ash	1016.2	-	34.0	407.0	-	-	1457.2
Mixed Species	105.7	6.8	1269.0	-	-	15.4	1397.0
TOTALS	1121.9	6.8	1303.0	407.0	-	15.4	2854.1
<b>Notes:</b>							
This data is sourced from VicForests 2015-16 Harvesting History Shapefile – supplied as attachment 1 with this submission.							

## Annual Regeneration Results

Successful regeneration of a coupe is termed 'coupe finalisation' and can only be demonstrated when the entire net harvested area of a coupe has been adequately re-stocked with seedlings, usually established by sowing seed after the completion of a regeneration burn.

The annual regeneration program consists of preparing sites where timber harvesting has occurred (site preparation), the establishment of eucalypt seedlings across the net harvested areas (site establishment) and a series of seedling stocking surveys to measure regeneration success.

Coupes that have been surveyed and demonstrated to have adequate stocking of the eucalypt species that were present prior to timber harvesting are then nominated for coupe finalisation. Coupes nominated during 2015/16 are shown in Table 3.

## 2.1 Coupes Nominated for Coupe Finalisation

Table 3 VicForests' coupes nominated for finalisation during 2015/16.

Coupe Types	Even-Aged Coupes	Uneven-Aged Coupes	Thinning Coupes	Roadline Coupes	TOTALS
<b>Number of Coupes Finalised</b>	87	4	4	1	<b>96</b>
<b>Gross Coupe Area Finalised</b>	<b>3,017</b>	<b>203</b>	<b>300</b>	<b>20</b>	<b>3,540</b>
<b>Net Area Harvested and Finalised</b>	1,704	86	118	1	1,909
<b>Notes:</b>					
<i>This data is sourced from VicForests' CENGEA Database and VicForests' Harvesting History data.</i>					
<i>All areas are in hectares.</i>					

Additional information on coupes which VicForests has nominated for finalisation in 2015/16 has been supplied in attachment 2 - *VicForests 2015-16 Coupe Finalisation list*.

## Other Authorised Activities

This section outlines associated management activities undertaken by VicForests during the 2015/16 year as authorised within Clause 10 of the Allocation Order 2013, which includes activities such as seed collection and stand-tending.

### 3.1 Seed Collection

Seed collection is undertaken annually to maintain adequate seed-stock to facilitate future site establishment of harvested areas.

Table 4 shows the amount of seed collected by VicForests during the 2015/16 year by forest type and method of collection.

Table 4 Seed collection by species group completed by VicForests during 2015/16.

Forest Type	Seed Collection Amount (Kilograms)		
	Ground Collection	Climbing	Total
<b>Ash Species</b>	484.9	2,172.5	<b>2,657.5</b>
<b>Mixed Species</b>	1,448.7	210.8	<b>1,659.5</b>
<b>TOTAL</b>	<b>1,933.6</b>	<b>2,383.3</b>	<b>4,317</b>
<b>Notes:</b>			
<i>The data in this table is sourced from VicForests' Seed-bank database.</i>			
<i>All figures are in kilograms.</i>			
<i>Ash species includes Alpine Ash, Mountain Ash and Shining Gum. All other species are considered as mixed species.</i>			

### 3.2 Stand Tending

Forest stand tending incorporates activity undertaken to manage or manipulate a forest stand while continuing to let the stand grow. Table 5 shows the net areas of stand tending activity undertaken by VicForests during the 2015/16 year.



Table 5 The area of stand tending activities by forest stand type undertaken in 2015/16.

Stand Type	Thinning from Above	Thinning from Below	Single-Tree Selection	TOTALS
<b>Ash</b>	-	-	-	-
<b>Mixed Species</b>	-	15.4	32.9	48.3
<b>TOTALS</b>	-	15.4	32.9	48.3
<b>Notes:</b>				
<i>The data in this table is sourced from VicForests' 2015-16 Harvesting History Shapefile, which is included with this submission.</i>				

## Corrections to VicForests' Annual Harvesting and Regeneration Report, 2014/15

Due to a mapping error, a correction has been made to the 2014/15 Harvesting History Layer. This resulted in VicForests over reporting seed-tree operations undertaken in 2014/15 by 14 hectares.

The following is an amended version of Table 2 from the 2014/15 report (amended figures in red):

Table 6 2014/15 Net Harvest Area by Silviculture system and forest stand type

Forest Stand Type	Clear felling	Clear felling - Salvage	Seed-Tree (data corrected 09/2016)	Regrowth Retention Harvesting	Uneven-Aged (Seed-tree section)	Uneven-Aged (THB section)	TOTALS
<b>Ash</b>	1,150.20	5.6	16.3	201.3	-	-	1,373.30
<b>Mixed Species</b>	138.8	2.7	1422.6	4.1	15	65.1	1,648.28
<b>TOTALS</b>	1,288.90	8.3	1,438.9	205.3	15	65.1	3,021.5
<b>Notes:</b>							
<i>This data was corrected from VicForests 2015-16 Harvesting History data.</i>							

## Attachments

The following attachments also form part of VicForests' Annual Harvesting and Regeneration Report (as previously indicated):

- VicForests' 2015-16 Harvesting History Shapefile, including the following components:
  - VF\_Harvesting\_History\_201516\_Final\_20160929.dbf
  - VF\_Harvesting\_History\_201516\_Final\_20160929.prj
  - VF\_Harvesting\_History\_201516\_Final\_20160929.sbn
  - VF\_Harvesting\_History\_201516\_Final\_20160929.sbx
  - VF\_Harvesting\_History\_201516\_Final\_20160929.shp
  - VF\_Harvesting\_History\_201516\_Final\_20160929.shp.xml
  - VF\_Harvesting\_History\_201516\_Final\_20160929.shx
- VicForests' 2015-16 Coupe Finalisation List

Stand type	FMA	District	Coupe address	Roadline	Forest type	Silvi type	TRP Area	Harvested area	Admin Org
Even-aged	Central	Alexandra	283-503-0019	No	MMS	CFE	28.28	16.79	VicForests
Even-aged	East Gippsland	Cann River	888-502-0012	No	MMS	CFE	30.39	25.27	VicForests
Even-aged	Tambo	Swifts Creek	775-505-0004	No	MMS	CFE	41.03	35.21	VicForests
Even-aged	Central	Alexandra	286-005-0004	No	MAS	CFE	27.87	10.85	Shared
Even-aged	Tambo	Swifts Creek	775-505-0003	No	AMS	CFE	40.37	36.05	VicForests
Even-aged	Tambo	Swifts Creek	771-507-0025	No	AAS	CFE	22.46	12.63	VicForests
Even-aged	Tambo	Swifts Creek	771-507-0024	No	AAS	CFE	22.64	18.72	VicForests
Even-aged	Tambo	Swifts Creek	765-503-0007	No	AAS	CFE	24.71	14.86	VicForests
Even-aged	Tambo	Swifts Creek	764-507-0002	No	AAS	CFE	39.93	10.12	VicForests
Even-aged	Tambo	Swifts Creek	760-504-0025	No	AAS	CFE	20.89	12.42	VicForests
Even-aged	Tambo	Swifts Creek	760-503-0015	No	AAS	CFE	42.46	12.01	VicForests
Even-aged	Tambo	Bairnsdale	722-504-0005	No	AAS	CFE	18.28	18.27	VicForests
Even-aged	Tambo	Bairnsdale	722-503-0002	No	AAS	CFE	29.09	22.03	VicForests
Even-aged	North East	Upper Murray	687-511-0004	No	AAS	CFE	9.61	6.54	VicForests
Even-aged	North East	Upper Murray	686-507-0011	No	AAS	CFE	20.24	13.9	VicForests
Even-aged	North East	Upper Murray	676-530-0008	No	AAS	CFE	28.49	5.74	VicForests
Even-aged	North East	Upper Murray	676-528-0006	No	AAS	CFE	23.33	19.3	VicForests
Even-aged	North East	Upper Murray	676-511-0008	No	AAS	CFE	38.02	4.52	VicForests
Even-aged	Benalla-Mansfield	Benalla/Mansfield	401-501-0002	No	AAS	CFE	32.27	11.75	VicForests
Even-aged	Benalla-Mansfield	Benalla/Mansfield	399-503-0006	No	AAS	CFE	21.6	15.87	VicForests
Even-aged	Benalla-Mansfield	Benalla/Mansfield	377-501-0001	No	MAS	CFE	25.76	9.5	VicForests
Even-aged	Central	Marysville	320-503-0005	No	AAS	CFE	42.1	15.86	VicForests
Even-aged	Central	Marysville	320-502-0024	No	AAS	CFE	12.51	10.41	VicForests
Even-aged	Central	Marysville	320-502-0019	No	AAS	CFE	45.84	31.96	VicForests
Even-aged	Central	Marysville	320-502-0015	No	AAS	CFE	53.55	36.87	VicForests
Even-aged	Central	Marysville	320-502-0011	No	AAS	CFE	45.94	29.59	VicForests
Even-aged	Central	Marysville	320-502-0002	No	AAS	CFE	26.49	15.29	VicForests
Even-aged	Central	Marysville	309-511-0005	No	MAS	CFE	32.15	15.02	VicForests
Even-aged	Central	Alexandra	286-512-0019	No	AAS	CFE	31.09	24.7	VicForests
Even-aged	Central	Alexandra	286-512-0020	No	AAS	CFE	33.87	22.96	VicForests
Even-aged	Central	Marysville	309-508-0016	No	MAS	CFE	15.04	8.2	VicForests
Even-aged	Central	Marysville	309-009-0006	No	MAS	CFE	40.39	29.89	Shared
Even-aged	Central	Alexandra	288-516-0004	No	AAS	CFE	37.31	8.66	VicForests
Even-aged	Central	Alexandra	288-515-0002	No	AAS	CFE	22.55	20.66	VicForests
Even-aged	Central	Alexandra	288-510-0006	No	AAS	CFE	33.67	20.15	VicForests
Even-aged	Central	Alexandra	287-012-0002	No	AAS	CFE	36.59	27.45	VicForests
Even-aged	Central	Alexandra	287-512-0027	No	AAS	CFE	23.04	16.1	VicForests
Even-aged	Central	Alexandra	287-504-0001	No	AAS	CFE	28.41	26.49	VicForests
Even-aged	Central	Alexandra	283-503-0013	No	MAS	CFS	75.14	33.72	VicForests
Even-aged	Central	Alexandra	283-505-0020	No	FMS	CFS	46.43	3.16	VicForests
Even-aged	Central	Alexandra	286-506-0001	No	AAS	CFS	49.36	26.04	VicForests
Even-aged	Benalla-Mansfield	Benalla/Mansfield	400-505-0005	No	AAS	CFS	51.78	12.03	VicForests
Even-aged	Benalla-Mansfield	Benalla/Mansfield	399-503-0009	No	AAS	CFS	121.45	7.65	VicForests
Even-aged	Benalla-Mansfield	Benalla/Mansfield	374-501-0002	No	AAS	CFS	46.36	16.68	VicForests
Even-aged	Central	Toolangi	306-503-0003	No	MAS	CFS	92.88	30.98	VicForests
Even-aged	Central	Alexandra	289-521-0002	No	AAS	CFS	40.06	36.75	VicForests
Even-aged	Central	Alexandra	287-517-0001	No	AAS	CFS	20.64	3.9	VicForests
Roadline	East Gippsland	Orbost	832-501-0025	Yes	FMS	RDI	20.28	0.86	VicForests
Even-aged	East Gippsland	Bendoc	894-504-0011	No	AMS	STR	30.7	13.62	VicForests
Even-aged	East Gippsland	Bendoc	894-504-0008	No	MMS	STR	39.05	20.07	VicForests
Even-aged	East Gippsland	Bendoc	893-511-0004	No	MMS	STR	17.09	17.2	VicForests
Even-aged	East Gippsland	Bendoc	892-513-0004	No	MMS	STR	34.29	32.51	VicForests
Even-aged	East Gippsland	Bendoc	892-509-0014	No	MMS	STR	23.24	21.91	VicForests
Even-aged	East Gippsland	Bendoc	892-509-0006	No	MMS	STR	36.58	34.45	VicForests
Even-aged	East Gippsland	Bendoc	892-509-0001	No	MMS	STR	31.05	15.68	VicForests
Even-aged	East Gippsland	Bendoc	892-507-0005	No	MMS	STR	37.91	34.98	VicForests
Even-aged	East Gippsland	Bendoc	891-513-0005	No	MMS	STR	17.06	8.53	VicForests
Even-aged	East Gippsland	Cann River	888-504-0003	No	WAT	STR	50.76	38.31	VicForests
Even-aged	East Gippsland	Cann River	884-516-0003	No	FMS	STR	24.01	20.14	VicForests
Even-aged	East Gippsland	Cann River	875-503-0017	No	FMS	STR	14.12	7.87	VicForests
Even-aged	East Gippsland	Cann River	875-503-0015	No	FMS	STR	35.13	27.93	VicForests
Even-aged	East Gippsland	Cann River	875-503-0003	No	FMS	STR	49.67	27.38	VicForests
Even-aged	East Gippsland	Cann River	875-501-0008	No	FMS	STR	32.99	21.6	VicForests
Even-aged	Central	Alexandra	284-502-0008	No	MMS	STR	45.84	2.56	VicForests
Even-aged	East Gippsland	Cann River	875-501-0005	No	FMS	STR	31.5	18.4	VicForests
Even-aged	East Gippsland	Cann River	870-502-0006	No	FMS	STR	37.88	25.18	VicForests
Even-aged	East Gippsland	Cann River	870-502-0005	No	FMS	STR	43.58	23.43	VicForests
Even-aged	East Gippsland	Cann River	867-501-0021	No	FMS	STR	28.32	13.61	VicForests

Even-aged	East Gippsland	Cann River	867-501-0015	No	FMS	STR	43.93	18.07	VicForests
Even-aged	East Gippsland	Cann River	866-508-0027	No	CMS	STR	23.97	16.04	VicForests
Even-aged	East Gippsland	Cann River	866-508-0014	No	CMS	STR	37.72	24.55	VicForests
Even-aged	East Gippsland	Cann River	866-508-0001	No	CMS	STR	10.44	9.38	VicForests
Even-aged	East Gippsland	Cann River	866-505-0005	No	CMS	STR	45.32	33.63	VicForests
Even-aged	East Gippsland	Cann River	863-503-0007	No	FMS	STR	39.61	25.74	VicForests
Even-aged	East Gippsland	Orbost	836-516-0005	No	FMS	STR	35.39	3.11	VicForests
Even-aged	East Gippsland	Orbost	832-502-0009	No	FMS	STR	24.87	6.85	VicForests
Even-aged	East Gippsland	Orbost	827-519-0017	No	FMS	STR	26.19	18.05	VicForests
Even-aged	East Gippsland	Orbost	825-518-0021	No	FMS	STR	39.84	30.11	VicForests
Even-aged	East Gippsland	Orbost	823-506-0011	No	CMS	STR	48.37	37.11	VicForests
Even-aged	East Gippsland	Nowa Nowa	814-503-0008	No	MMS	STR	38.76	33.53	VicForests
Even-aged	East Gippsland	Nowa Nowa	806-501-0020	No	FMS	STR	32.35	11.99	VicForests
Even-aged	Tambo	Swifts Creek	777-502-0006	No	MMS	STR	41.59	24.48	VicForests
Even-aged	Tambo	Swifts Creek	774-502-0014	No	MMS	STR	32.86	26.43	VicForests
Even-aged	Tambo	Bairnsdale	739-511-0008	No	FMS	STR	22.75	16.92	VicForests
Even-aged	Tambo	Bairnsdale	739-511-0005	No	FMS	STR	20.33	13.9	VicForests
Even-aged	Central	Toolangi	301-556-0006	No	FMS	STR	28.41	21.5	VicForests
Even-aged	Central	Toolangi	301-548-0003	No	FMS	STR	43.85	34.08	VicForests
Even-aged	Central	Toolangi	301-538-0001	No	FMS	STR	27.54	9.38	VicForests
Even-aged	East Gippsland	Cann River	888-505-0007	No	MMS	THB	40.05	25.08	VicForests
Even-aged	East Gippsland	Cann River	888-504-0028	No	MMS	THB	33.15	30.5	VicForests
Thinning	East Gippsland	Cann River	874-512-0006	No	FMS	THB	129.59	36.05	VicForests
Thinning	East Gippsland	Nowa Nowa	815-515-0005	No	AAS	THB	96.88	26.81	VicForests
Uneven-aged	East Gippsland	Orbost	834-506-0002	No	CMS	UNE	85.78	36.58	VicForests
Uneven-aged	East Gippsland	Orbost	834-505-0007	No	CMS	UNE	41.21	27.89	VicForests
Uneven-aged	East Gippsland	Orbost	831-510-0001	No	CMS	UNE	42.11	9.53	VicForests
Uneven-aged	East Gippsland	Orbost	830-511-0012	No	FMS	UNE	33.64	11.76	VicForests



# Annual Harvesting and Regeneration Report

2016/17  
September 2017



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## Introduction and Summary

The Annual Harvesting and Regeneration Report has been developed by VicForests to demonstrate to the Secretary of the Department of Economic Development, Jobs, Transport and Resources (DEDJTR) how VicForests has met its obligations under section 15 of the *Sustainable Forests (Timber) Act 2004*, whereby VicForests must carry out its functions in accordance with the Allocation Order.

The Allocation Order (AO) is made by the Minister for Agriculture under Part 3 of the *Sustainable Forests (Timber) Act 2004*.

The objectives of an AO are to:

- Allocate specified timber resources in State forests to VicForests for the purposes of harvesting and selling, or harvesting or selling timber resources;
- Permit VicForests to undertake associated management activities in relation to that allocated timber and in the areas to which the order applies (e.g. construction of access roads, regeneration activities, thinning and monitoring); and
- Specify relevant conditions and limitations (e.g. minimum planning and reporting requirements, and the maximum five-year harvest area limits)

The current AO is the Allocation (Amendment) Order 2014, published in the Victorian Government Gazette No S 405 on 30 October 2014, which updated provisions set out in the Allocation Order 2013. The Allocation Order 2013 replaced the Allocation to VicForests Order 2004 which covered the period 1 August 2004 to 31 September 2013.

This report specifically addresses Clause 18 of the Allocation (Amendment) Order 2014, whereby VicForests must submit an annual report to the Secretary of DEDJTR by September 30 each year, describing the area of timber harvested and regeneration results of the preceding financial year for Ash and Mixed Species forest stand types. The report must also include data demonstrating how VicForests is complying with the AO 5-year harvest area limit (as shown in item 3 of Table 1, of the Allocation (Amendment) Order 2014).

The 2016/17 report represents the fourth year of the annual process to report the area of harvest, regeneration results and to demonstrate compliance with the 5-year harvest limits imposed by the Allocation (Amendment) Order 2014. In addition to these requirements, VicForests has included an annual summary of other authorised activities undertaken in 2016/17.

In 2016/17, VicForests commenced harvesting in 174 Timber Release Plan (TRP) coupes (excludes roadline improvement and roadline construction coupes), attributing a further 2,386 hectares of AO Gross Coupe Area to the Ash forest type and a further 3,003 hectares of the AO Gross Coupe Area to Mixed Species forest type from their respective 5-year area limits.

In total, VicForests has harvested 66% of the Ash Forest 5-year area limit and 15% of the Mixed Species Forest 5-year area limit, and is on track to remain within each of the respective five-year limits.

VicForests 2016/17 season also comprised a net harvest from TRP coupes of 859 hectares from Clear-felling, 1,404 hectares from Seed-tree and 410 hectares from Regrowth Retention. A total of 292 hectares comprised solely of stand tending activities such as thinning or single-tree selection silviculture.

In undertaking our annual regeneration responsibilities, VicForests proposed for finalisation a further 4,649 hectares of gross coupe area, comprising 135 coupes assessed as being successfully regenerated or otherwise stocked.

A handwritten signature in blue ink, appearing to read "N. Trushell", is positioned above the printed name.

Nathan Trushell  
**CEO VicForests**

## Objectives

The objectives of the VicForests Annual Harvesting and Regeneration Report are to provide information on:

1. VicForests' area harvested in 2016/17;
2. VicForests' compliance with the Allocation Order 5-year harvest limits;
3. VicForests' regeneration results for 2016/17; and
4. A summary of VicForests' other authorised activities undertaken in 2016/17.

## Area of Timber Harvested

Two types of area harvested results will be reported; they are the AO Gross Coupe Area and the Net Harvest Area.

### 1.1 AO Gross Coupe Area

The AO Gross Coupe Area is the total coupe area (a gross area) of a coupe where timber harvesting has commenced in that coupe, reported by the year harvesting first commenced relative to the 5-year AO period.

The AO Gross Coupe Area is the area measurement that is used for comparison with the five-year harvest area limits listed in the AO. The five year harvest limit period is from 2013/14 to 2017/18.

The AO Gross Coupe Area result includes both harvested and un-harvested areas. The area not harvested will contain areas potentially available for timber harvest and areas unavailable for harvest – usually because of *Code of Practice for Timber Production 2014* exclusions or reserves created by VicForests.

This AO Gross Coupe Area is classified into either Ash or Mixed Species forest stand types to identify what proportion of the coupes have been tallied against each of the 5-year harvest area limits.

**Table 1** indicates that at the end of the 2016/17 financial year, a total of 2,386 hectares had been attributed to the Ash Forest 5-year area limit and 3,003 hectares was attributed to the Mixed Species 5-year area limit. **Figure 1** shows how VicForests compliance with the 5-year limits is being monitored.

Table 1 2016/17 AO Coupe Area and five-year harvest limit by forest stand type

Forest Stand Type	AO Five-year harvest limit (Hectares)	2013/14 AO Coupe Area (Hectares)	2014/15 AO Coupe Area (Hectares)	2015/16 AO Coupe Area (Hectares)	2016/17 AO Coupe Area (Hectares)	Cumulative AO Area (Period 2013-2018) (Hectares)	% AO 5-Year Harvest Limit Utilised
Ash	14,200	2,090	2,273	2,583	2,386	9,332	66%
Mixed Species	70,000	2,034	2,820	2,847	3,003	10,704	15%
<b>Notes:</b>							
The area of harvest operations to be included in the comparison with the five-year area limits in the AO are; clear-fell, clear-fell salvage, seed tree (includes retained over-wood), regrowth retention harvesting and uneven-aged silviculture methods.							
Thinning type harvesting is considered tending operations and are not included in this comparison with the AO five-year harvest limits as specified in Clause 11 of the Allocation Order 2013.							
The total area of a coupe is tallied towards the five-year area limits in the Allocation Order when harvesting first commences in that coupe. Where timber harvesting occurs over more than one year or over more than one 5-year period of the AO, the AO Coupe Area will be tallied to the first year and first period in which harvesting first commenced.							
The forest stand type has been determined using the spatial file "Working_forest_area_2013.shp", as supplied to VicForests.							

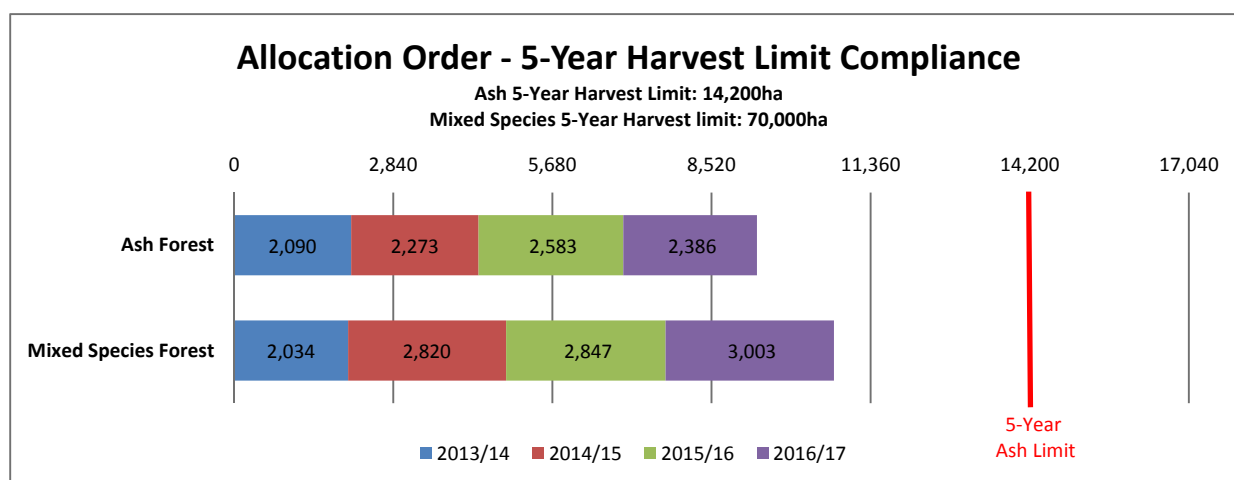


Figure 1. VicForests AO Compliance Monitoring Chart (Mixed Species 5-year limit not shown).

## 1.2 Net Harvest Area

To provide a comparison with the AO Coupe Area, the actual harvest area (the net area), will also be reported. This is the area harvested using each silviculture system reported (excluding stand tending activities) in VicForests' annual Sustainability Report, broken down into Ash and Mixed Species forest stand types.

The net areas harvested by these silviculture systems will lead to a requirement for the harvested area to be regenerated as the majority of trees are removed from the site.

**Table 2** outlines the area of timber harvesting undertaken by VicForests during the 2016/17 year, by silviculture system and by forest stand type.

Table 2 2016/17 Net Harvest Area by silviculture system and forest stand type

Forest Stand Type	Clear felling	Seed-Tree	Regrowth Retention Harvesting	TOTALS
Ash	737.5	48.6	391.2	1,177.3
Mixed Species	121.2	1,355.8	18.5	1,495.5
<b>TOTALS</b>	<b>858.7</b>	<b>1,404.4</b>	<b>409.7</b>	<b>2,672.8</b>
<b>Notes:</b>				
This data is sourced from VicForests 2016-17 Harvesting History Shapefile – supplied as attachment 1 with this submission.				

## Annual Regeneration Results

Successful regeneration of a coupe is termed 'coupe finalisation' and can only be demonstrated when the entire net harvested area of a coupe has been adequately re-stocked with seedlings, usually established by sowing seed after the completion of a regeneration burn.

The annual regeneration program consists of preparing sites where timber harvesting has occurred (site preparation), the establishment of eucalypt seedlings across the net harvested areas (site establishment) and a series of seedling stocking surveys to measure regeneration success.

Coupes that have been surveyed and demonstrated to have adequate stocking of the eucalypt species that were present prior to timber harvesting are then nominated for coupe finalisation. Coupes nominated during 2016/17 are shown in Table 3.

## 2.1 Coupes Nominated for Coupe Finalisation

Table 3 VicForests' coupes nominated for finalisation during 2016/17.

Coupe Types	Even-Aged Coupes	Uneven-Aged Coupes	TOTALS
Number of Coupes Finalised	131	4	135
Gross Coupe Area Finalised (ha)	4,270	279	4,549
Net Area Harvested and Finalised (ha)	2,582	140	2,722

Additional information on coupes which VicForests has nominated for finalisation in 2016/17 has been supplied in attachment 2 - *VicForests 2016-17 Coupe Finalisation list*.

## Other Authorised Activities

This section outlines associated management activities undertaken by VicForests during the 2016/17 year as authorised within Clause 10 of the Allocation Order 2013, which includes activities such as seed collection and stand-tending.

### 3.1 Seed Collection

Seed collection is undertaken annually to maintain adequate seed-stock to facilitate future site establishment of harvested areas.

Table 4 shows the amount of seed collected by VicForests during the 2016/17 year by forest type and method of collection.

Table 4 Seed collection by species group completed by VicForests during 2016/17.

Forest Stand Type	Seed Collection Amount (Kilograms)		
	Ground Collection	Climbing	Total
Ash Species	182.7	140.1	322.8
Mixed Species	500.0	537.7	1,037.8
<b>TOTAL</b>	<b>682.7</b>	<b>677.9</b>	<b>1,360.6</b>
<b>Notes:</b>			
<i>The data in this table is sourced from VicForests' Seed-bank database.</i>			
<i>All figures are in kilograms.</i>			
<i>Ash species includes Alpine Ash, Mountain Ash and Shining Gum. All other species are considered as mixed species.</i>			

### 3.2 Stand Tending

Forest stand tending incorporates activity undertaken to manage or manipulate a forest stand while continuing to let the stand grow. Table 5 shows the net areas of stand tending activity undertaken by VicForests during the 2016/17 year.



Table 5 The area of stand tending activities by forest stand type undertaken in 2016/17.

Forest Stand Type	Thinning from Above	Thinning from Below	Single-Tree Selection	TOTALS
Ash	-	-	-	-
Mixed Species	-	204.2	87.9	292.1
<b>TOTALS</b>	-	<b>204.2</b>	<b>87.9</b>	<b>292.1</b>
<b>Notes:</b>				
<i>The data in this table is sourced from VicForests' 2016-17 Harvesting History Shapefile, which is included with this submission.</i>				

## Corrections to previous VicForests' Annual Harvesting and Regeneration Reports

No Corrections are being reported in 2016/17.

## Attachments

The following attachments also form part of VicForests' Annual Harvesting and Regeneration Report (as previously indicated):

1. VicForests' 2016-17 Harvesting History Shapefile, including the following components:
  - a. VF\_Harvesting\_History\_201617.dbf
  - b. VF\_Harvesting\_History\_201617.prj
  - c. VF\_Harvesting\_History\_201617.sbn
  - d. VF\_Harvesting\_History\_201617.sbx
  - e. VF\_Harvesting\_History\_201617.shp
  - f. VF\_Harvesting\_History\_201617.xml
  - g. VF\_Harvesting\_History\_201617.shx
2. VicForests' 2016-17 Coupe Finalisation List

Stand type	FMA	District	Coupe address	Roadline	Forest type	Silvi type	TRP Area	Harvested area	Admin Org
Even-aged	Dandenong	Powelltown	344-519-0001	No	MMS	CFE	33.63	29.04	VicForests
Even-aged	Dandenong	Powelltown	344-520-0006	No	MMS	STR	20.95	6.3	VicForests
Even-aged	Dandenong	Powelltown	345-503-0005	No	MAS	CFE	30.45	8.92	VicForests
Even-aged	Dandenong	Powelltown	345-512-0001	No	MMS	STR	43.64	25.99	VicForests
Even-aged	Dandenong	Powelltown	345-512-0002	No	MMS	STR	38.02	31.07	VicForests
Even-aged	Dandenong	Powelltown	347-511-0002	No	FMS	STR	19.7	16.32	VicForests
Even-aged	Dandenong	Powelltown	347-515-0011	No	MAS	CFE	38.09	25.21	VicForests
Even-aged	Dandenong	Powelltown	348-510-0008	No	MAS	CFE	24.87	14.66	VicForests
Even-aged	Dandenong	Powelltown	348-517-0006	No	MAS	CFE	38.3	28	VicForests
Even-aged	Dandenong	Powelltown	348-517-0007	No	MAS	CFS	30.72	17.91	VicForests
Even-aged	Central Gipps	Noojee	457-501-0012	No	AAS	CFE	34.01	14.77	VicForests
Even-aged	Central Gipps	Noojee	457-501-0013	No	AAS	CFE	22.3	19.23	VicForests
Even-aged	Central Gipps	Noojee	457-501-0018	No	AAS	CFE	46.13	16.58	VicForests
Even-aged	Central Gipps	Noojee	457-501-0024	No	AAS	CFE	21.83	6.24	VicForests
Even-aged	Central Gipps	Noojee	457-504-0002	No	AAS	CFE	24.96	15.33	VicForests
Even-aged	Central Gipps	Noojee	457-508-0001	No	SHG	CFE	26.34	21.94	VicForests
Even-aged	Central Gipps	Noojee	458-501-0001	No	MMS	STR	54.63	30.72	VicForests
Even-aged	Central Gipps	Noojee	458-509-0002	No	AAS	CFE	38.96	33.09	VicForests
Even-aged	Central Gipps	Noojee	460-505-0011	No	MMS	STR	27.35	21	VicForests
Even-aged	Central Gipps	Noojee	460-507-0003	No	FMS	CFE	38.83	29.9	VicForests
Even-aged	Central Gipps	Noojee	460-510-0001	No	MAS	RRH	27.89	6.42	VicForests
Even-aged	Central Gipps	Noojee	460-511-0002	No	FMS	CFE	32.84	24.82	VicForests
Even-aged	Central Gipps	Noojee	462-502-0004	No	FMS	STR	31.88	27.04	VicForests
Even-aged	Central Gipps	Noojee	462-505-0024	No	MMS	CFE	38.99	32.73	VicForests
Even-aged	Central Gipps	Noojee	462-505-0025	No	MMS	CFE	27.81	20.84	VicForests
Even-aged	Central Gipps	Noojee	463-501-0011	No	FMS	STR	40.82	24.76	VicForests
Even-aged	Central Gipps	Noojee	463-502-0005	No	FMS	CFE	30.66	26	VicForests
Even-aged	Central Gipps	Noojee	463-502-0011	No	FMS	STR	43.71	32.82	VicForests
Even-aged	Central Gipps	Noojee	465-503-0010	No	FMS	STR	23.41	5.9	VicForests
Even-aged	Central Gipps	Noojee	469-502-0008	No	FMS	STR	31.56	20.22	VicForests
Even-aged	Central Gipps	Erica	479-505-0001	No	FMS	STR	38.11	6.92	VicForests
Even-aged	Central Gipps	Erica	479-505-0015	No	FMS	STR	28.53	4.5	VicForests
Even-aged	Central Gipps	Erica	479-506-0003	No	FMS	STR	39.79	15.78	VicForests
Even-aged	Central Gipps	Erica	480-503-0003	No	AAS	CFE	27.09	13.49	VicForests
Even-aged	Central Gipps	Erica	481-501-0012	No	MAS	CFE	17.2	11	VicForests
Even-aged	Central Gipps	Erica	482-501-0001	No	MAS	CFE	34.57	22.43	VicForests
Even-aged	Central Gipps	Erica	483-501-0014	No	FMS	CFE	19.43	16.23	VicForests
Even-aged	Central Gipps	Erica	483-504-0012	No	MAS	CFE	19.39	9.15	VicForests
Even-aged	Central Gipps	Erica	483-504-0025	No	MAS	CFE	17.22	8.2	VicForests
Even-aged	Central Gipps	Erica	487-501-0002	No	FMS	STR	41.15	24.59	VicForests
Even-aged	Central Gipps	Erica	487-501-0006	No	FMS	STR	14.54	10.05	VicForests
Even-aged	Central Gipps	Erica	487-501-0007	No	FMS	STR	22.86	13.98	VicForests
Even-aged	Central Gipps	Erica	497-501-0002	No	FMS	STR	35.2	20.37	VicForests
Even-aged	Central Gipps	Heyfield	524-503-0005	No	AAS	CFE	70.2	29.14	VicForests
Even-aged	Central Gipps	Heyfield	526-501-0002	No	AAS	CFE	24.93	14.42	VicForests
Even-aged	Central Gipps	Heyfield	526-502-0002	No	MMS	CFE	26.18	12.05	VicForests
Even-aged	Central Gipps	Heyfield	526-502-0007	No	MMS	CFE	30.77	16.55	VicForests
Even-aged	Central	Alexandra	282-512-0005	No	MMS	STR	32.88	22.59	VicForests
Even-aged	Central	Alexandra	286-509-0004	No	AAS	CFE	32.25	22.24	VicForests
Even-aged	Central	Alexandra	286-509-0006	No	AAS	CFE	43.06	17.56	VicForests
Even-aged	Central	Alexandra	286-509-0008	No	AAS	CFE	32.41	9.44	VicForests
Even-aged	Central	Alexandra	286-512-0013	No	AAS	CFE	21.67	8.36	VicForests
Even-aged	Central	Alexandra	287-504-0002	No	AAS	CFE	20.08	12.45	VicForests
Even-aged	Central	Alexandra	287-504-0003	No	AAS	CFE	32.69	28.5	VicForests
Even-aged	Central	Alexandra	287-511-0001	No	AAS	CFE	39.45	32.88	VicForests

Even-aged	Central	Alexandra	287-511-0006	No	AAS	CFE	18.23	16.15	VicForests
Even-aged	Central	Alexandra	287-517-0004	No	AAS	RRH	57.21	9.77	VicForests
Even-aged	Central	Alexandra	287-518-0006	No	AAS	RRH	46.23	22.03	VicForests
Even-aged	Central	Alexandra	288-503-0001	No	AAS	CFE	29.86	20.55	VicForests
Even-aged	Central	Alexandra	288-503-0006	No	AAS	CFE	17.27	15.51	VicForests
Even-aged	Central	Toolangi	300-901-0008	No	MAS	CFE	37.98	19	VicForests
Even-aged	Central	Toolangi	300-917-0001	No	MAS	CFE	25.01	17.35	VicForests
Even-aged	Central	Toolangi	301-535-0002	No	FMS	STR	55.33	34.54	VicForests
Even-aged	Central	Toolangi	301-537-0004	No	FMS	STR	49.16	33.26	VicForests
Even-aged	Central	Toolangi	301-541-0001	No	FMS	STR	49.42	20.89	VicForests
Even-aged	Central	Toolangi	301-548-0005	No	FMS	STR	36.28	27.02	VicForests
Even-aged	Central	Toolangi	301-548-0006	No	FMS	STR	34.58	29.88	VicForests
Even-aged	Central	Toolangi	301-557-0003	No	FMS	STR	36.82	21.21	VicForests
Even-aged	Central	Marysville	309-508-0014	No	MAS	CFE	38.38	17.17	VicForests
Even-aged	Central	Marysville	309-512-0006	No	MAS	RRH	17.94	3.92	VicForests
Even-aged	Central	Marysville	309-512-0007	No	MAS	RRH	26.21	14.62	VicForests
Even-aged	Central	Marysville	312-002-0005	No	MAS	CFE	39.99	26.22	VicForests
Even-aged	Central	Marysville	312-512-0005	No	MAS	CFE	54.8	20.24	VicForests
Even-aged	Central	Marysville	318-512-0004	No	AAS	CFE	42.12	24.83	VicForests
Even-aged	Central	Marysville	318-512-0006	No	AAS	CFE	42.55	23.59	VicForests
Even-aged	Benalla-Mans	Benalla/Mans	384-505-0007	No	AAS	CFE	50	42.83	VicForests
Even-aged	North East	Upper Murray	684-514-0008	No	AAS	CFE	20.05	5.44	VicForests
Even-aged	Tambo	Swifts Creek	711-506-0025	No	AAS	CFE	28.58	15.06	VicForests
Even-aged	Tambo	Swifts Creek	720-505-0018	No	AAS	CFE	43.78	20.66	VicForests
Even-aged	Tambo	Bairnsdale	722-505-0009	No	AMS	CFE	13.64	9.89	VicForests
Even-aged	Tambo	Bairnsdale	732-503-0007	No	FMS	STR	30.03	23.07	VicForests
Even-aged	Tambo	Swifts Creek	760-503-0017	No	AAS	CFE	34.98	16.51	VicForests
Even-aged	Tambo	Swifts Creek	760-504-0019	No	AAS	CFE	18.78	8.22	VicForests
Even-aged	Tambo	Swifts Creek	763-509-0003	No	AAS	CFE	25.25	14.61	VicForests
Even-aged	Tambo	Swifts Creek	765-504-0002	No	AAS	CFE	11.39	8.01	VicForests
Even-aged	Tambo	Swifts Creek	767-504-0017	No	AAS	CFE	12.4	6.12	VicForests
Even-aged	Tambo	Swifts Creek	770-510-0009	No	AAS	STR	41.71	27.18	VicForests
Even-aged	Tambo	Swifts Creek	773-501-0023	No	AAS	CFE	39.62	22.55	VicForests
Even-aged	East Gippslan	Nowa Nowa	801-504-0015	No	CMS	STR	21.54	18.66	VicForests
Even-aged	East Gippslan	Nowa Nowa	801-504-0016	No	CMS	STR	22.74	19.27	VicForests
Even-aged	East Gippslan	Nowa Nowa	801-509-0010	No	CMS	STR	42.68	27.02	VicForests
Even-aged	East Gippslan	Nowa Nowa	804-502-0014	No	FMS	STR	37.78	26.63	VicForests
Even-aged	East Gippslan	Nowa Nowa	804-502-0018	No	FMS	STR	18.02	14.16	VicForests
Even-aged	East Gippslan	Nowa Nowa	804-502-0019	No	FMS	STR	37.01	27.24	VicForests
Even-aged	East Gippslan	Nowa Nowa	804-503-0016	No	CMS	STR	35.6	17.55	VicForests
Even-aged	East Gippslan	Nowa Nowa	814-503-0009	No	MMS	STR	22.87	17.94	VicForests
Even-aged	East Gippslan	Nowa Nowa	817-511-0010	No	AAS	CFE	21.93	13.22	VicForests
Even-aged	East Gippslan	Nowa Nowa	817-511-0013	No	AAS	CFE	35.23	24.12	VicForests
Even-aged	East Gippslan	Nowa Nowa	817-511-0014	No	AAS	CFE	25.54	15.16	VicForests
Even-aged	East Gippslan	Orbost	823-506-0012	No	CMS	STR	40.51	34.69	VicForests
Even-aged	East Gippslan	Orbost	827-507-0001	No	FMS	STR	41.36	33.27	Shared
Even-aged	East Gippslan	Orbost	829-507-0011	No	FMS	STR	35.62	27.37	VicForests
Even-aged	East Gippslan	Orbost	829-510-0020	No	FMS	STR	31.65	24.07	VicForests
Even-aged	East Gippslan	Orbost	830-501-0026	No	FMS	STR	36.57	29.9	VicForests
Even-aged	East Gippslan	Orbost	830-511-0017	No	FMS	STR	19.61	8.37	VicForests
Even-aged	East Gippslan	Orbost	830-511-0023	No	FMS	STR	16.92	11.78	VicForests
Even-aged	East Gippslan	Orbost	831-501-0017	No	FMS	STR	43.43	11.05	VicForests
Even-aged	East Gippslan	Orbost	831-501-0018	No	FMS	STR	18.21	13.23	VicForests
Even-aged	East Gippslan	Orbost	831-512-0012	No	CMS	STR	39.29	17.06	VicForests
Even-aged	East Gippslan	Orbost	832-508-0017	No	FMS	STR	43.06	31.63	VicForests
Uneven-aged	East Gippslan	Orbost	832-508-0018	No	FMS	UNE	21.75	15.41	VicForests

Even-aged	East Gippsland	Orbost	833-503-0009	No	FMS	STR	22.4	16.77	VicForests
Even-aged	East Gippsland	Orbost	835-512-0001	No	CMS	STR	43.74	26.56	VicForests
Even-aged	East Gippsland	Orbost	835-512-0002	No	CMS	STR	25.32	13.51	VicForests
Uneven-aged	East Gippsland	Cann River	857-501-0001	No	FMS	FWF	112.98	57.52	VicForests
Even-aged	East Gippsland	Cann River	866-508-0020	No	CMS	STR	48.86	27.95	VicForests
Even-aged	East Gippsland	Cann River	866-508-0021	No	CMS	STR	27.49	17.01	VicForests
Even-aged	East Gippsland	Cann River	867-504-0008	No	CMS	STR	51.16	20.35	VicForests
Even-aged	East Gippsland	Cann River	867-509-0013	No	FMS	STR	48.22	19.47	VicForests
Even-aged	East Gippsland	Cann River	872-511-0009	No	FMS	STR	40.69	31.15	VicForests
Even-aged	East Gippsland	Cann River	872-511-0013	No	FMS	STR	22.94	11.36	VicForests
Even-aged	East Gippsland	Cann River	872-511-0014	No	FMS	STR	38.66	4.11	VicForests
Even-aged	East Gippsland	Cann River	872-512-0006	No	FMS	STR	38.06	30.76	VicForests
Even-aged	East Gippsland	Cann River	873-502-0007	No	FMS	STR	35.56	17.02	VicForests
Even-aged	East Gippsland	Cann River	873-502-0011	No	FMS	STR	42.48	27.05	VicForests
Uneven-aged	East Gippsland	Cann River	876-506-0009	No	FMS	UNE	28.55	20.95	VicForests
Even-aged	East Gippsland	Cann River	885-512-0002	No	MMS	STR	22.44	14.26	VicForests
Even-aged	East Gippsland	Cann River	886-502-0012	No	MMS	STR	12.85	11.79	VicForests
Uneven-aged	East Gippsland	Cann River	888-501-0007	No	AMS	UNE	115.36	46.44	VicForests
Even-aged	East Gippsland	Bendoc	892-507-0007	No	MMS	STR	32.76	30.68	VicForests
Even-aged	East Gippsland	Bendoc	892-513-0015	No	MMS	STR	29.62	21.98	VicForests
Even-aged	East Gippsland	Bendoc	893-502-0006	No	MMS	STR	36.52	25.67	VicForests
Even-aged	East Gippsland	Bendoc	895-502-0003	No	MMS	STR	38.01	30.18	VicForests
Even-aged	East Gippsland	Bendoc	895-505-0010	No	AMS	STR	19	20.11	VicForests
Even-aged	East Gippsland	Bendoc	895-507-0011	No	MMS	STR	35.74	26.09	VicForests



# Annual Harvesting and Regeneration Report 2017/18

**2013/14 to 2017/18  
Final Report**

September 2018

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UNDER THE FREEDOM OF INFORMATION ACT 1982



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## Introduction and Summary

The Annual Harvesting and Regeneration Report has been developed by VicForests to demonstrate to the Secretary of the Department of Economic Development, Jobs, Transport and Resources (DEDJTR) how VicForests has met its obligations under section 15 of the *Sustainable Forests (Timber) Act 2004*, whereby VicForests must carry out its functions in accordance with the Allocation Order.

The Allocation Order (AO) is made by the Minister for Agriculture under Part 3 of the *Sustainable Forests (Timber) Act 2004*.

The objectives of an AO are to:

- Allocate specified timber resources in State forests to VicForests for the purposes of harvesting and selling, or harvesting or selling timber resources;
- Permit VicForests to undertake associated management activities in relation to that allocated timber and in the areas to which the order applies (e.g. construction of access roads, regeneration activities, thinning and monitoring); and
- Specify relevant conditions and limitations (e.g. minimum planning and reporting requirements, and the maximum five-year harvest area limits)

The current AO is the Allocation (Amendment) Order 2014, published in the Victorian Government Gazette No S 405 on 30 October 2014, which updated provisions set out in the Allocation Order 2013. The Allocation Order 2013 replaced the Allocation to VicForests Order 2004 which covered the period 1 August 2004 to 31 September 2013.

This report specifically addresses Clause 18 of the Allocation (Amendment) Order 2014, whereby VicForests must submit an annual report to the Secretary of DEDJTR by September 30 each year, describing the area of timber harvested and regeneration results of the preceding financial year for Ash and Mixed Species forest stand types. The report must also include data demonstrating how VicForests is complying with the AO 5-year harvest area limit (as shown in item 3 of Table 1, of the Allocation (Amendment) Order 2014).

The 2017/18 report represents the fifth and final year of the annual process to report the area of harvest, regeneration results and to demonstrate compliance with the 5-year harvest limits imposed by the Allocation (Amendment) Order 2014. In addition to these requirements, VicForests has included an annual summary of other authorised activities undertaken in 2017/18.

In 2017/18, VicForests commenced harvesting in 236 Timber Release Plan (TRP) coupes (excludes roadline improvement and roadline construction coupes), attributing a further 1,988 hectares of AO Gross Coupe Area to the Ash forest type and a further 3,638 hectares of the AO Gross Coupe Area to Mixed Species forest type from their respective 5-year area limits.

In total, VicForests has harvested 80% of the Ash Forest 5-year area limit and 20% of the Mixed Species Forest 5-year area limit. These figures are below the maximum 5-year harvesting limits in the fifth and final year of this 5-year period and hence demonstrate VicForests' compliance with the current Allocation Order.

VicForests 2017/18 season also comprised a net harvest from TRP coupes of 702 hectares from Clear-felling, 1,989 hectares from Seed-tree and 354 hectares from Regrowth Retention. A total of 135 hectares comprised solely of stand tending activities such as thinning or single-tree selection silviculture.

VicForests' Annual Harvesting and Regeneration Report  
September 2017



In undertaking our annual regeneration responsibilities, VicForests proposed for finalisation a further 5,065 hectares of gross coupe area, comprising 146 coupes assessed as being successfully regenerated or otherwise stocked.

A handwritten signature in blue ink, appearing to read "N. Trushell".

**Nathan Trushell**

Chief Executive Officer, VicForests

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## Objectives

The objectives of the VicForests Annual Harvesting and Regeneration Report are to provide information on:

1. VicForests' area harvested in 2017/18;
2. VicForests' compliance with the Allocation Order 5-year harvest limits;
3. VicForests' regeneration results for 2017/18; and
4. A summary of VicForests' other authorised activities undertaken in 2017/18.

## Area of Timber Harvested

Two types of area harvested results will be reported; they are the AO Gross Coupe Area and the Net Harvest Area.

### 1.1 AO Gross Coupe Area

The AO Gross Coupe Area is the total coupe area (a gross area) of a coupe where timber harvesting has commenced in that coupe, reported by the year harvesting first commenced relative to the 5-year AO period.

The AO Gross Coupe Area is the area measurement that is used for comparison with the five-year harvest area limits listed in the AO. The five year harvest limit period is from 2013/14 to 2017/18.

The AO Gross Coupe Area result includes both harvested and un-harvested areas. The area not harvested will contain areas potentially available for timber harvest and areas unavailable for harvest – usually because of *Code of Practice for Timber Production 2014* exclusions or reserves created by VicForests.

This AO Gross Coupe Area is classified into either Ash or Mixed Species forest stand types to identify what proportion of the coupes have been tallied against each of the 5-year harvest area limits.

**Table 1** indicates that at the end of the 2017/18 financial year, a total of xxx hectares had been attributed to the Ash Forest 5-year area limit and xxx hectares was attributed to the Mixed Species 5-year area limit. **Figure 1** demonstrates VicForests' compliance with the 5-year limits is being monitored.

Table 1 2017/18 AO Gross Coupe Area and five-year harvest limit by forest stand type

Forest Stand Type	AO Five-year harvest limit (Hectares)	2013/14 AO Coupe Area (Hectares)	2014/15 AO Coupe Area (Hectares)	2015/16 AO Coupe Area (Hectares)	2016/17 AO Coupe Area (Hectares)	2017/18 AO Coupe Area (Hectares)	Cumulative AO Area (Period 2013-2018) (Hectares)	% AO 5-Year Harvest Limit Utilised
<b>Ash</b>	14,200	2,090	2,273	2,583	2,386	1,988	<b>11,319</b>	80%
<b>Mixed Species</b>	70,000	2,034	2,820	2,847	3,003	3,638	<b>14,344</b>	20%
<b>Notes:</b>								
The area of harvest operations to be included in the comparison with the five-year area limits in the AO are; clear-fell, clear-fell salvage, seed tree (includes retained over-wood), regrowth retention harvesting and uneven-aged silviculture methods.								
Thinning type harvesting is considered tending operations and are not included in this comparison with the AO five-year harvest limits as specified in Clause 11 of the Allocation Order 2013.								
The total area of a coupe is tallied towards the five-year area limits in the Allocation Order when harvesting first commences in that coupe. Where timber harvesting occurs over more than one year or over more than one 5-year period of the AO, the AO Coupe Area will be tallied to the first year and first period in which harvesting first commenced.								
The forest stand type has been determined using the spatial file "Working_forest_area_2013.shp", as supplied to VicForests.								



Figure 1. VicForests AO Compliance Monitoring Chart (Mixed Species 5-year limit not shown).

## 1.2 Net Harvest Area

To provide a comparison with the AO Coupe Area, the actual harvest area (the net area), will also be reported. This is the area harvested using each silviculture system reported (excluding stand tending activities) in VicForests' annual Sustainability Report, broken down into Ash and Mixed Species forest stand types.

The net areas harvested by these silviculture systems will lead to a requirement for the harvested area to be regenerated as the majority of trees are removed from the site.

**Table 2** outlines the area of timber harvesting undertaken by VicForests during the 2017/18 year, by silviculture system and by forest stand type.

Table 2 2017/18 Net Harvest Area (ha) by silviculture system and forest stand type

Forest Stand Type	Clear felling	Seed-Tree	Regrowth Retention Harvesting	TOTALS
Ash	575.0	20.1	343.8	938.9
Mixed Species	127.0	1,969.3	9.7	2,106.0
<b>TOTALS</b>	<b>702.0</b>	<b>1,989.4</b>	<b>353.5</b>	<b>3,044.9</b>
<b>Notes:</b>				
This data is sourced from VicForests 2017-18 Harvesting History Shapefile – supplied as attachment 1 with this submission.				

## Annual Regeneration Results

Successful regeneration of a coupe is termed 'coupe finalisation' and can only be demonstrated when the entire net harvested area of a coupe has been adequately restocked with seedlings, usually established by sowing seed after the completion of a regeneration burn.

The annual regeneration program consists of preparing sites where timber harvesting has occurred (site preparation), the establishment of eucalypt seedlings across the net harvested areas (site establishment) and a series of seedling stocking surveys to measure regeneration success.



Coupes that have been surveyed and demonstrated to have adequate stocking of the eucalypt species that were present prior to timber harvesting are then nominated for coupe finalisation. Coupes nominated during 2017/18 are shown in Table 3.

## 2.1 Coupes Nominated for Coupe Finalisation

Table 3 VicForests' coupes nominated for finalisation during 2017/18.

Coupe Types	Even-Aged Coupes	Thinning Coupes	Roadline Coupes	TOTALS
Number of Coupes Finalised	139	5	2	146
Gross Coupe Area Finalised (ha)	4,722	326	17	5,065
Net Area Harvested and Finalised (ha)	2,535	101	2	2,638

Additional information on coupes which VicForests has nominated for finalisation in 2017/18 has been supplied in attachment 2 - *VicForests 2017-18 Coupe Finalisation list*.

## Other Authorised Activities

This section outlines associated management activities undertaken by VicForests during the 2017/18 year as authorised within Clause 10 of the Allocation Order 2013, which includes activities such as seed collection and stand-tending.

### 3.1 Seed Collection

Seed collection is undertaken annually to maintain adequate seed-stock to facilitate future site establishment of harvested areas.

Table 4 shows the amount of seed collected by VicForests during the 2017/18 year by forest type and method of collection.

Table 4 Seed collection by species group completed by VicForests during 2017/18.

Forest Stand Type	Seed Collection Amount (Kilograms)		
	Ground Collection	Climbing	Total
Ash Species	84.0	28.6	112.6
Mixed Species	1,177.7	113.3	1,291.0
<b>TOTAL</b>	<b>1,261.7</b>	<b>141.9</b>	<b>1,403.6</b>
<b>Notes:</b>			
The data in this table is sourced from VicForests' Seed-bank database.			
All figures are in kilograms.			
Ash species includes Alpine Ash, Mountain Ash and Shining Gum. All other species are considered as mixed species.			

### 3.2 Stand Tending

Forest stand tending incorporates activity undertaken to manage or manipulate a forest stand while continuing to let the stand grow. Table 5 shows the net areas of stand tending activity undertaken by VicForests during the 2017/18 year.



Table 5 The area (ha) of stand tending activities by forest stand type undertaken in 2017/18.

Forest Stand Type	Thinning from Above	Thinning from Below	Single-Tree Selection	TOTALS
Ash	-	-	-	-
Mixed Species	-	82.0	53.4	135.4
<b>TOTALS</b>		<b>82.0</b>	<b>53.4</b>	<b>135.4</b>
<b>Notes:</b>				
The data in this table is sourced from VicForests' 2017-18 Harvesting History Shapefile, which is included with this submission.				

## Corrections to previous VicForests' Annual Harvesting and Regeneration Reports

VicForests' has identified some immaterial errors within previous harvesting history year data that will not affect VicForests' reported compliance with the Allocation Order area limits. These errors will be amended and the updated data will be provided to the Secretary of the Department of Economic Development, Jobs, Transport and Resources when completed.

## Attachments

The following attachments also form part of VicForests' Annual Harvesting and Regeneration Report (as previously indicated):

1. VicForests' 2017-18 Harvesting History Shapefile, including the following components:
  - a. VF\_Harvesting\_History\_201718.dbf
  - b. VF\_Harvesting\_History\_201718.prj
  - c. VF\_Harvesting\_History\_201718.sbn
  - d. VF\_Harvesting\_History\_201718.sbx
  - e. VF\_Harvesting\_History\_201718.shp
  - f. VF\_Harvesting\_History\_201718.xml
  - g. VF\_Harvesting\_History\_201718.shx
2. VicForests' 2017-18 Coupe Finalisation List



Stand type	FMA	District	Coupe address	Roadline	Forest type	Silvi type	TRP Area
Even-aged	Central	Alexandra	283-503-0017	No	MMS	STR	45.37
Even-aged	Central	Alexandra	284-502-0009	No	MMS	STR	25.35
Even-aged	Central	Alexandra	286-503-0001	No	AAS	CFE	34.3
Even-aged	Central	Alexandra	286-505-0012	No	MAS	RRH	41.15
Even-aged	Central	Alexandra	286-505-0016	No	AAS	CFE	52.21
Even-aged	Central	Alexandra	286-511-0005	No	AAS	RRH	31.28
Even-aged	Central	Alexandra	286-514-0001	No	AAS	CFE	21.64
Even-aged	Central	Alexandra	287-509-0005	No	MMS	CFE	25.31
Even-aged	Central	Alexandra	287-512-0025	No	AAS	RRH	30.59
Even-aged	Central	Alexandra	288-516-0007	No	AAS	RRH	50.54
Even-aged	Central	Alexandra	288-518-0002	No	AAS	CFE	40.9
Even-aged	Central	Alexandra	288-518-0010	No	AAS	CFE	44.19
Even-aged	Central	Toolangi	295-515-0003	No	FMS	STR	36.47
Even-aged	Central	Toolangi	297-547-0007	No	MAS	RRH	34.49
Even-aged	Central	Toolangi	298-877-0005	No	MAS	STR	11.91
Even-aged	Central	Toolangi	301-548-0007	No	FMS	STR	27.12
Even-aged	Central	Toolangi	301-553-0004	No	MAS	STR	127.44
Even-aged	Central	Toolangi	307-501-0001	No	MMS	STR	57.59
Even-aged	Central	Marysville	309-009-0008	No	MAS	CFE	22.86
Even-aged	Central	Marysville	309-508-0018	No	MAS	CFE	29.72
Even-aged	Central	Marysville	309-509-0001	No	AAS	CFE	46.91
Even-aged	Central	Marysville	309-509-0003	No	MAS	CFE	18.99
Even-aged	Central	Marysville	309-509-0004	No	MAS	CFE	31.2
Even-aged	Central	Marysville	309-511-0008	No	MAS	RRH	41.06
Even-aged	Central	Marysville	309-512-0005	No	SHG	CFE	23.52
Even-aged	Central	Marysville	311-522-0007	No	AAS	CFE	19.3
Even-aged	Central	Marysville	312-512-0007	No	MAS	RRH	37.1
Even-aged	Central	Marysville	317-504-0002	No	AAS	RRH	51.25
Even-aged	Central	Marysville	317-505-0003	No	AAS	RRH	34.05
Even-aged	Central	Marysville	317-506-0001	No	MAS	CFE	18.58
Even-aged	Central	Marysville	317-506-0002	No	MAS	CFE	30.73
Even-aged	Central	Marysville	317-507-0001	No	MAS	CFE	28.65
Even-aged	Central	Marysville	317-507-0003	No	MAS	CFE	27.62
Even-aged	Central	Marysville	317-507-0006	No	MAS	CFE	33.82
Even-aged	Central	Marysville	317-508-0005	No	AAS	CFE	34.77
Even-aged	Central	Marysville	320-501-0018	No	AAS	CFE	44.54
Even-aged	Central	Marysville	320-501-0028	No	AAS	CFE	41.75
Even-aged	Central	Marysville	320-501-0029	No	AAS	CFE	43.71
Even-aged	Central	Marysville	320-502-0006	No	AAS	CFE	43.5
Even-aged	Central	Marysville	320-502-0014	No	AAS	CFE	43.05
Even-aged	Central	Marysville	320-502-0017	No	AAS	CFE	37.81
Even-aged	Central	Marysville	320-502-0018	No	AAS	CFE	47.31
Even-aged	Central	Marysville	320-502-0023	No	AAS	CFE	32.24
Even-aged	Central	Marysville	320-502-0041	No	AAS	CFE	50.3
Even-aged	Benalla-Mansfield	Benalla/Mansfield	388-505-0003	No	AAS	CFE	47.68
Even-aged	Benalla-Mansfield	Benalla/Mansfield	400-504-0001	No	AAS	CFE	23.29
Even-aged	North East	Ovens	647-505-0005	No	AAS	CFE	92.96
Even-aged	North East	Ovens	647-506-0014	No	AAS	CFE	39.51
Even-aged	North East	Ovens	647-509-0006	No	AAS	CFS	40.91
Even-aged	North East	Upper Murray	686-511-0003	No	AAS	CFE	30.66

Even-aged	Dandenong	Powelltown	350-503-0008	No	MAS	CFE	30.85
Even-aged	Dandenong	Powelltown	350-503-0009	No	MAS	CFE	20.88
Even-aged	Central Gippsland	Noojee	457-508-0002	No	MAS	CFE	42.24
Even-aged	Central Gippsland	Noojee	457-508-0003	No	AAS	CFE	37.17
Even-aged	Central Gippsland	Noojee	458-506-0006	No	MAS	CFE	34.08
Even-aged	Central Gippsland	Noojee	459-504-0013	No	SHG	RRH	21.29
Even-aged	Central Gippsland	Noojee	460-505-0008	No	MMS	STR	38.73
Even-aged	Central Gippsland	Noojee	460-512-0004	No	MMS	STR	31.98
Even-aged	Central Gippsland	Noojee	461-502-0004	No	FMS	STR	17.91
Even-aged	Central Gippsland	Noojee	461-510-0013	No	SHG	CFE	40.38
Even-aged	Central Gippsland	Noojee	461-516-0003	No	MMS	STR	35.92
Even-aged	Central Gippsland	Noojee	462-507-0023	No	FMS	CFE	36.89
Even-aged	Central Gippsland	Noojee	464-502-0002	No	MAS	CFE	41.03
Even-aged	Central Gippsland	Noojee	464-504-0006	No	FMS	STR	44.42
Even-aged	Central Gippsland	Noojee	467-504-0006	No	FMS	STR	38.97
Even-aged	Central Gippsland	Noojee	469-501-0004	No	FMS	STR	43.3
Even-aged	Central Gippsland	Erica	479-502-0001	No	MMS	STR	47.78
Even-aged	Central Gippsland	Erica	480-504-0026	No	MAS	CFE	35.82
Even-aged	Central Gippsland	Erica	480-505-0010	No	MAS	CFE	19.98
Even-aged	Central Gippsland	Erica	480-505-0011	No	MMS	CFE	23.6
Even-aged	Central Gippsland	Erica	480-505-0014	No	MMS	CFE	20.41
Even-aged	Central Gippsland	Erica	482-501-0052	No	FMS	STR	40.25
Even-aged	Central Gippsland	Erica	497-501-0001	No	FMS	STR	29.12
Even-aged	Central Gippsland	Erica	497-501-0003	No	FMS	STR	20.22
Even-aged	Tambo	Swifts Creek	711-504-0007	No	AAS	CFE	25.7
Even-aged	Tambo	Swifts Creek	711-504-0008	No	AAS	CFE	36.89
Even-aged	Tambo	Bairnsdale	737-502-0002	No	CMS	STR	27.66
[No survey]	Tambo	Bairnsdale	739-509-0009	Yes	FMS	RDI	10.47
Even-aged	Tambo	Swifts Creek	749-501-0005	No	AAS	CFE	28.78
Even-aged	Tambo	Swifts Creek	749-501-0006	No	AAS	CFE	37.12
Even-aged	Tambo	Swifts Creek	749-501-0007	No	AAS	CFE	29.7
Even-aged	Tambo	Swifts Creek	763-506-0007	No	AAS	CFE	16.47
Even-aged	Tambo	Swifts Creek	764-506-0002	No	AAS	CFE	25.77
Even-aged	Tambo	Swifts Creek	765-501-0010	No	AAS	CFE	16.78
Even-aged	Tambo	Swifts Creek	765-504-0005	No	AAS	CFE	10.23
Even-aged	Tambo	Swifts Creek	765-510-0001	No	AAS	CFE	47.58
Even-aged	Tambo	Swifts Creek	765-510-0005	No	AAS	CFE	24.48
[No survey]	Tambo	Swifts Creek	765-510-0007	Yes	AAS	RDC	6.47
Even-aged	Tambo	Swifts Creek	765-522-0007	No	AAS	CFE	25.4
Even-aged	Tambo	Swifts Creek	765-529-0016	No	AAS	CFE	39.72
Even-aged	Tambo	Swifts Creek	766-502-0001	No	AAS	CFE	16.19
Even-aged	Tambo	Swifts Creek	770-507-0001	No	AAS	CFE	37.31
Even-aged	Tambo	Swifts Creek	771-507-0001	No	AAS	CFE	32.8
Even-aged	Tambo	Swifts Creek	773-501-0008	No	AAS	CFE	36.77
Even-aged	Tambo	Swifts Creek	773-501-0022	No	AAS	CFE	24.8
Even-aged	East Gippsland	Nowa Nowa	803-506-0004	No	CMS	STR	37.27
Even-aged	East Gippsland	Nowa Nowa	814-504-0003	No	MMS	STR	37.37
Even-aged	East Gippsland	Nowa Nowa	817-501-0013	No	AAS	STR	23.73
Even-aged	East Gippsland	Nowa Nowa	817-501-0014	No	AAS	STR	30.32
Even-aged	East Gippsland	Nowa Nowa	817-511-0003	No	AAS	CFE	18.28
Even-aged	East Gippsland	Orbost	827-501-0020	No	FMS	STR	39.89

Even-aged	East Gippsland	Orbost	827-515-0006	No	FMS	STR	35.23
Thinning	East Gippsland	Orbost	830-510-0004	No	MMS	THB	12.72
Even-aged	East Gippsland	Orbost	830-510-0006	No	FMS	STR	35.91
Even-aged	East Gippsland	Orbost	830-510-0008	No	FMS	STR	40.37
Even-aged	East Gippsland	Orbost	830-511-0022	No	FMS	STR	40.37
Even-aged	East Gippsland	Orbost	830-511-0024	No	FMS	STR	31.34
Even-aged	East Gippsland	Orbost	830-515-0012	No	FMS	STR	27.95
Even-aged	East Gippsland	Orbost	831-507-0014	No	FMS	STR	22.71
Even-aged	East Gippsland	Orbost	831-507-0015	No	FMS	STR	46.56
Even-aged	East Gippsland	Orbost	832-501-0017	No	FMS	STR	40.47
Even-aged	East Gippsland	Orbost	832-501-0030	No	FMS	STR	22.68
Even-aged	East Gippsland	Orbost	832-501-0031	No	FMS	STR	18.18
Even-aged	East Gippsland	Orbost	832-501-0035	No	FMS	STR	9.36
Even-aged	East Gippsland	Orbost	833-508-0015	No	FMS	STR	29.49
Even-aged	East Gippsland	Orbost	834-506-0009	No	CMS	STR	25.04
Even-aged	East Gippsland	Orbost	834-506-0010	No	CMS	STR	34.11
Even-aged	East Gippsland	Orbost	834-506-0011	No	CMS	STR	27.48
Even-aged	East Gippsland	Orbost	834-506-0012	No	CMS	STR	30.04
Even-aged	East Gippsland	Orbost	842-503-0004	No	FMS	STR	43.04
Even-aged	East Gippsland	Orbost	842-508-0020	No	FMS	STR	37.76
Even-aged	East Gippsland	Cann River	864-505-0011	No	FMS	STR	39.29
Even-aged	East Gippsland	Cann River	871-506-0002	No	FMS	STR	51.03
Thinning	East Gippsland	Cann River	874-501-0011	No	FMS	THB	88.06
Thinning	East Gippsland	Cann River	874-501-0012	No	FMS	THB	92.06
Thinning	East Gippsland	Cann River	874-506-0003	No	FMS	THB	86.04
Thinning	East Gippsland	Cann River	874-506-0013	No	FMS	THB	46.76
Even-aged	East Gippsland	Cann River	874-509-0001	No	FMS	STR	19.58
Even-aged	East Gippsland	Cann River	885-511-0018	No	MMS	STR	30.21
Even-aged	East Gippsland	Cann River	885-513-0019	No	MMS	STR	19.58
Even-aged	East Gippsland	Cann River	885-515-0003	No	MMS	STR	44.8
Even-aged	East Gippsland	Cann River	886-501-0007	No	MMS	STR	10.83
Even-aged	East Gippsland	Cann River	886-504-0020	No	MMS	STR	40.58
Even-aged	East Gippsland	Cann River	888-502-0011	No	MMS	CFE	24.77
Even-aged	East Gippsland	Bendoc	891-516-0028	No	MMS	STR	35.17
Even-aged	East Gippsland	Bendoc	892-508-0006	No	MMS	STR	29.87
Even-aged	East Gippsland	Bendoc	892-517-0009	No	AMS	STR	40.93
Even-aged	East Gippsland	Bendoc	892-517-0010	No	MMS	STR	26.02
Even-aged	East Gippsland	Bendoc	892-519-0001	No	MMS	CFE	47.44
Even-aged	East Gippsland	Bendoc	892-519-0013	No	MMS	CFE	27.69
Even-aged	East Gippsland	Bendoc	894-505-0001	No	MMS	STR	42.12
Even-aged	East Gippsland	Bendoc	894-505-0002	No	MMS	STR	39.38
Even-aged	East Gippsland	Bendoc	894-505-0003	No	MMS	STR	15.86
Even-aged	East Gippsland	Bendoc	894-507-0001	No	MMS	STR	40.2
Even-aged	East Gippsland	Bendoc	894-507-0007	No	MMS	STR	32.96
Even-aged	East Gippsland	Bendoc	895-512-0003	No	MMS	STR	18.47

Harvested area	Admin Org
37.59	VicForests
13.14	VicForests
20.39	VicForests
24.14	VicForests
36.7	VicForests
15.48	VicForests
16.12	VicForests
10.58	VicForests
19.07	VicForests
26.2	VicForests
22.72	VicForests
23.35	VicForests
17.93	VicForests
21.81	VicForests
9.86	VicForests
23.58	VicForests
28.79	VicForests
35.47	VicForests
18.09	VicForests
12.79	VicForests
20.48	VicForests
13.05	VicForests
19.41	VicForests
15.33	VicForests
8.6	VicForests
16.42	Shared
18.08	VicForests
23.56	VicForests
5.38	VicForests
10.68	VicForests
9.61	VicForests
8.7	VicForests
23.29	VicForests
25.78	VicForests
16.43	VicForests
27.84	VicForests
31.96	VicForests
37.09	VicForests
33.13	VicForests
30.76	VicForests
32.28	VicForests
40.08	VicForests
28.65	VicForests
24.73	VicForests
23.81	VicForests
11.18	VicForests
34.32	VicForests
2.07	VicForests
4.43	VicForests
24.83	VicForests

20.91	VicForests
12.36	VicForests
33.25	VicForests
30.13	VicForests
8.06	VicForests
6.41	VicForests
17.56	VicForests
21.25	VicForests
14.1	VicForests
24.93	VicForests
25.45	VicForests
26.08	VicForests
18.76	VicForests
30.7	VicForests
20.26	VicForests
22.83	VicForests
32.33	VicForests
17.55	VicForests
14.29	VicForests
9.16	VicForests
11.74	VicForests
13.69	VicForests
19.25	VicForests
12.37	VicForests
7.86	VicForests
20.09	VicForests
14.48	VicForests
	VicForests
19.44	VicForests
22.25	VicForests
11.32	VicForests
7.7	VicForests
12.96	VicForests
13.94	VicForests
5.94	VicForests
24.01	VicForests
8.18	VicForests
1.82	VicForests
13.45	VicForests
7.24	VicForests
11.97	VicForests
17.14	VicForests
19.3	VicForests
31.95	VicForests
20.61	VicForests
16.33	VicForests
23	VicForests
16.31	VicForests
18.31	VicForests
12.81	VicForests
9.9	VicForests

11.44	VicForests
0.51	VicForests
4.29	VicForests
16.37	VicForests
16.05	VicForests
23.82	VicForests
17.23	VicForests
14.85	VicForests
20.73	VicForests
24.35	VicForests
9.96	VicForests
10.66	VicForests
5.66	VicForests
15.75	VicForests
13.38	VicForests
22.53	VicForests
18.02	VicForests
16.93	VicForests
2.44	VicForests
15.32	VicForests
16.36	VicForests
18.48	VicForests
20.29	VicForests
19.12	VicForests
36.34	VicForests
25.01	VicForests
13.82	VicForests
20.39	VicForests
16.7	VicForests
16.76	VicForests
9.44	VicForests
25.33	VicForests
20.62	VicForests
14.5	VicForests
21.84	VicForests
22.98	VicForests
2.56	VicForests
9.29	VicForests
7.16	VicForests
25.16	VicForests
37.48	VicForests
11.45	VicForests
8.21	VicForests
15.32	VicForests
15.92	VicForests





# Annual Harvesting and Regeneration Report 2018/19

Submitted to the Secretary of the  
Department of Jobs, Precincts and Regions

September 2019

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## Introduction and Summary

The Annual Harvesting and Regeneration Report has been developed by VicForests to provide the Secretary of the Department to Jobs, Precincts and Regions (DJPR) information and data on VicForests Timber Harvesting Operations in State forest for the 2018/19 year. This report also demonstrates how VicForests has met its obligations under section 15 of the *Sustainable Forests (Timber) Act 2004*, where VicForests must carry out its functions in accordance with the Allocation Order.

The Allocation Order (AO) is made by the Minister for Agriculture under Part 3 of the *Sustainable Forests (Timber) Act 2004*.

The objectives of an AO are to:

- Allocate specified timber resources in State forests to VicForests for the purposes of harvesting and selling, or harvesting or selling timber resources;
- Permit VicForests to undertake associated management activities in relation to that allocated timber and in the areas to which the order applies (e.g. construction of access roads, regeneration activities, thinning and monitoring); and
- Specify relevant conditions and limitations (e.g. minimum planning and reporting requirements, and the maximum five-year harvest area limits)

The current AO is the Allocation (Amendment) Order 2019 (AO 2019), published in the Victorian Government Gazette No S 153 on 24 April 2019, which updated provisions set out in the Allocation Order 2013 and the subsequent 2014 amendment.

This report specifically addresses Clause 10(7) of the Allocation (Amendment) Order 2019, where VicForests *must submit an annual report to the Secretary to DJPR by 30 September each year describing the area of timber harvested and regeneration results for the preceding financial year for Ash and Mixed species forest stands as described in Table 1 of the AO. The report must include data demonstrating how VicForests is complying with the five year harvest area limit. The reporting period will be 1 July to 30 June annually.*

This report is the annual process to report the area of harvest, regeneration results and to demonstrate compliance with the 5-year harvest limits imposed by the AO 2019. The 2018/19 report represents the first year in the second five-year period set out in the Allocation Order. In addition to these requirements, VicForests has included an annual summary of other authorised activities undertaken in 2018/19.

In 2018/19, VicForests undertook harvesting operations in 224 Timber Release Plan (TRP) coupes (excludes roadline improvement and roadline construction coupes), attributing 810 hectares of net harvested area to the Ash forest type and a 1,753 hectares of net harvested area to Mixed Species forest type from their respective 5-year area limits. A total of 378 hectares comprised solely of stand tending activities such as thinning or single-tree selection silviculture.

This is the first year of the current 5-year period and VicForests has harvested 6% of the Ash Forest 5-year area limit and 2% of the Mixed Species Forest 5-year area limit. These figures are well below the maximum 5-year harvesting limits and demonstrate VicForests' compliance with these limits.

VicForests also undertook harvesting operations in 75 Timber Utilisation Plan (TUP) coupes, with an operational footprint of 973 hectares. Coupes on the TUP are not harvested under the AO, rather VicForests issues Forest Produce Licences that authorise the harvesting operations in these areas.

In undertaking our annual regeneration responsibilities, VicForests proposed for finalisation a further 2638 hectares of net harvest area, comprising 187 coupes assessed as being successfully regenerated or otherwise stocked.

A handwritten signature in blue ink, appearing to read "Nathan Trushell".

**Nathan Trushell**  
Chief Executive Officer

## Objectives

The objectives of the VicForests Annual Harvesting and Regeneration Report are to provide information on:

1. VicForests' area harvested in 2018/19;
2. A summary of VicForests' other authorised activities undertaken in 2018/19.
3. VicForests' compliance with the Allocation Order 5-year harvest limits;
4. VicForests' regeneration results for 2018/19; and

## 1. VicForests Harvested Area 2018/19

### 1.1 Operations authorised by the AO

The majority of VicForests Timber Harvesting Operations in the east of Victoria are authorised by the AO.

The 2019 AO amendment was gazetted on 24 April 2019. It defined the Allocated area to be the area of land identified by the spatial data layer certified by the Secretary to DJPR on 15 April 2019 known as 'VicForests\_Allocation\_Apr2019' and stored in the Victorian Spatial Data Library. Prior to this the AO required VicForests' compliance with the Code of Practice for Timber Production 2014 and with the Forest Management Zoning scheme established pursuant to applicable forest management plans. There was also a map displaying the extent of these allocated stands included as Appendix 1 to the Allocation Order.

Harvesting in the 2018/19 season was undertaken under both the AO 2014 amendment and then the AO 2019 amendment. For the purposes of this report the harvested area has been assessed against the VicForests\_Allocation\_Apr2019 spatial layer. This spatial layer contains errors due to the exclusion of areas such as non-eucalypt stands from the allocated area.

In order to address these errors, following the gazettal of the AO 2019 amendment, DELWP issued a Forest Produce Licence that authorised timber harvesting operations within areas of State forest available for timber harvesting but excluded from the AO due to errors or omissions or a change to Forest Management Zones. A special condition of the licence was that any area of State forest harvested under this licence, when combined with the area of State forest harvested under the AO 2019, must not exceed the five-year harvest limit specified in Table 1 of the AO 2019. There was no area harvested using this FPL in 2018/19.

Coupes commenced prior to the production of this spatial layer and the gazettal of the AO 2019 amendment were marked and harvested in accordance with the Code and to the FMZ spatial layer, land tenure or natural feature in the field. When this harvesting is overlaid against the new AO 2019 spatial layer some small areas fall outside the defined stands (6.79ha). These areas have been summarised in the table in Attachment 3. These areas have been assigned to either Mixed Species or Ash and included in the five year harvest limit check and the harvest area statements.

Harvesting that took place between the gazettal of AO 2019 and 30 June 2019 excluded all undefined stands from the harvest area.

## 1.2 Harvested Area authorised by the AO

VicForests has collated the harvested area by Clearfell, Seed-Tree and Regrowth Retention silviculture systems. These silviculture systems lead to a requirement for the harvested area to be regenerated.

**Table 11** outlines the area of timber harvesting undertaken by VicForests during the 2018/19 year, by silviculture system and by forest stand type.

Table 1 2018/19 Net Harvest Area (ha) by silviculture system and forest stand type

Forest Stand Type	Clear felling	Seed-Tree	Regrowth Retention Harvesting	TOTALS
Ash	472.4	119.9	218.0	810.2
Mixed Species	141.7	1591.7	19.5	1752.9
<b>TOTALS</b>	<b>614.1</b>	<b>1711.5</b>	<b>237.5</b>	<b>2563.1</b>
<b>Notes:</b>				
<i>This data is sourced from VicForests 2017-18 Harvesting History Shapefile – supplied as attachment 1 with this submission.</i>				
<i>The forest stand type has been determined using the spatial file "VicForests_Allocation_Apr2019", as defined in the AO 2019 Amendment.</i>				

## 1.3 Other Authorised Activities

This section outlines associated management activities undertaken by VicForests during the 2018/19 year as authorised within Clause 8 of the AO 2019, which includes activities such as seed collection and stand-tending.

### 1.3.1 Stand Tending

Forest stand tending incorporates activity undertaken to manage or manipulate a forest stand while continuing to let the stand grow. Table 2 shows the net areas of stand tending activity undertaken by VicForests during the 2018/19 year.

Table 2 The area (ha) of stand tending activities by forest stand type undertaken in 2018/19.

Forest Stand Type	Thinning from Above	Thinning from Below	Single-Tree Selection	Firewood, Fallen	TOTALS
Ash	-	16.6	23.9	-	38.9
Mixed Species	-	151.1	185.5	0.8	334.7
<b>TOTALS</b>		<b>167.6</b>	<b>53.4</b>	<b>0.8</b>	<b>377.9</b>
<b>Notes:</b>					
<i>The data in this table is sourced from VicForests' 2017-18 Harvesting History Shapefile, which is included with this submission.</i>					
<i>The forest stand type has been determined using the spatial file "VicForests_Allocation_Apr2019", as defined in the AO 2019 Amendment.</i>					

### 1.3.2 Seed Collection

Seed collection is undertaken to maintain adequate seed-stock to facilitate site establishment of harvested areas.

Table 3 shows the amount of seed collected by VicForests during the 2018/19 year by forest type and method of collection.



Table 3 Seed collection by species group completed by VicForests during 2018/19.

Forest Stand Type	Seed Collection Amount (Kilograms)		
	Ground Collection	Climbing	Total
Ash Species	127.3	543.3	670.6
Mixed Species	471.8	786.2	1257.9
<b>TOTAL</b>	<b>599.1</b>	<b>1329.4</b>	<b>1928.5</b>
<b>Notes:</b>			
<i>The data in this table is sourced from VicForests' Seed-bank database.</i>			
<i>All figures are in kilograms.</i>			
<i>Ash species includes Alpine Ash, Mountain Ash and Shining Gum. All other species are considered as mixed species.</i>			

#### 1.4 Operations authorised by a Forest Produce Licence

VicForests has collated areas harvested by licensees for the 2018/19 financial year. VicForests has been delegated powers to issue licences to authorise the harvesting of these areas, mostly in western Victoria. A summary of area (in hectares) by silvicultural system and forest type is provided in the table below. This information is provided in the attached spatial layer.

Many coupes had multi-stage treatments, where there have been multiple overlapping operations using the same or different silvicultural systems in the one season (eg Single tree selection followed by Firewood - fallen) The areas shown below are the total of each individual operation and include areas that have been counted more than once.

Due to these multi-stage treatment, the actual footprint for the operations reported below was **973.1 ha**.

Table 4 2018/19 Net harvest Area (ha) by silviculture system and forest stand type

Forest Type	Stand	Firewood - fallen	Group/ gap Selection	Seed-Tree	Single tree selection	Thinning from Above	Thinning from Below	TOTALS
Ash					1.3			1.3
Box Iron-Bark		37.6			16.8	45.7	273.8	373.9
Coastal Mixed Species							3.3	3.3
Foothill Mixed Species		5.8	7.8		8.1		105.3	127
Mountain Mixed Species				4.7	19.1		17.7	41.4
River Red Gum		7.7			206.2	136.2	372.9	723.1
Sugar Gum Plantation						1.1	2.5	3.7
<b>TOTALS</b>		<b>51</b>	<b>7.8</b>	<b>4.7</b>	<b>251.5</b>	<b>183</b>	<b>775.6</b>	<b>1273.6</b>

## 2. AO five-year harvest area limits

The AO five-year Harvest Area limits have been assessed against the net harvested areas from the 2018-19 season. This has been done using the HH\_201819 spatial layer provided. This is the area harvested using each relevant silviculture system broken down into Ash and Mixed Species forest stand types as designated by the VicForests\_Allocation\_Apr2019 spatial layer.

Clause 8 of the AO 2019 permits VicForests to carry out associated management activities in relation to allocated timber. Any area in which timber is harvested, incidental to any associated management activity, is not included in the relevant five-year harvest limit. These associated management activities include tending of forest stands (e.g. thinning, road construction and seed collection). These activities are reported in section 1.4.

The net Harvested Area is the area measurement that is used for comparison with the five-year harvest area limits listed in the AO. The five-year harvest limit period is from 2018/19 to 2023/24.

All areas greater than 0.005ha that were harvested prior to the gazettal of the AO 2019, and are not defined by the new spatial layer, have been reported below in Table 4. These areas have been designated to either Ash or Mixed Species based on the forest type present. No harvesting outside the area defined in the AO spatial layer occurred between 24 April and 30 June 2019. Therefore, no area was harvested using FPL0000012 up to 30 June 2019.

Table 5 indicates that, at the end of the 2018/19 financial year, a total of 810 hectares had been attributed to the Ash Forest 5-year area limit and 1,753 hectares was attributed to the Mixed Species 5-year area limit. This is the first year of the five-year harvest area limit from 1 July 2018 to 30 June 2023. Table 4 demonstrates VicForests' compliance with the 5-year limit.

Table 5 Compliance of 2018/19 harvest area with five-year harvest area limit by forest stand type

Forest Stand Type	AO Five-year harvest limit (Hectares)	2018/19 Harvest Area (Hectares)	2018/19 Undefined Harvest Area (Hectares)	Cumulative AO Area (Period July 2018-July 2023) (Hectares)	% AO 5-Year Harvest Limit Utilised
<b>Ash</b>	13,700	809	1	<b>810</b>	6%
<b>Mixed Species</b>	70,500	1,752	1	<b>1,753</b>	2%

**Notes:**

The area of harvest operations to be included in the comparison with the five-year area limits in the AO are; clear-fell, clear-fell salvage, seed tree (includes retained over-wood), regrowth retention harvesting and uneven-aged silviculture methods.

Thinning type harvesting is considered tending operations and are not included in this comparison with the AO five-year harvest limits as specified in Clause 11 of the Allocation Order 2013.

The total area of a coupe is tallied towards the five-year area limits in the Allocation Order when harvesting first commences in that coupe. Where timber harvesting occurs over more than one year or over more than one 5-year period of the AO, the AO Coupe Area will be tallied to the first year and first period in which harvesting first commenced.

The forest stand type has been determined using the spatial file "VicForests\_Allocation\_Apr2019", as defined in the AO 2019 Amendment.

### 3. Annual Regeneration Results

Successful regeneration of a coupe is termed 'coupe finalisation' and can only be demonstrated when the entire net harvested area of a coupe has been adequately re-stocked with seedlings, usually established by sowing seed after the completion of a regeneration burn.

Additional area is successfully regenerated each year, but coupes are only reported when the entire net harvested area has been regenerated.

The annual regeneration program consists of preparing sites where timber harvesting has occurred (site preparation), the establishment of eucalypt seedlings across the net harvested areas (site establishment) and a series of seedling stocking surveys to measure regeneration success.

Coupes that have been surveyed and demonstrated to have adequate stocking of the eucalypt species that were present prior to timber harvesting are then nominated for coupe finalisation. Coupes nominated during 2018/19 are shown in Table 5.

#### 3.1 Coupes Nominated for Coupe Finalisation

Table 6 VicForests' coupes nominated for finalisation during 2018/19.

Coupe Types	Even-Aged Coupes	Thinning Coupes	Roadline Coupes	Un-harvestable	TOTALS
Number of Coupes Finalised	174	7	5	1	187
Gross Coupe Area Finalised (ha)	6058	401	82	21	6561
Net Area Harvested and Finalised (ha)	3351	222	2	0	2638
<b>Notes:</b> <i>Un-harvestable – This silviculture listing refers to a coupe that commenced but could not proceed due to excessive rock making the construction of a landing impossible. There is no net harvest area associated with this coupe.</i>					

Additional information on coupes which VicForests has nominated for finalisation in 2018/19 has been supplied in attachment 2 - *VicForests 2018-19 Coupe Finalisation list*.

### Corrections to previous VicForests' Annual Harvesting and Regeneration Reports

VicForests' has identified some immaterial errors within previous harvesting history year data that will not affect VicForests' reported compliance with the Allocation Order area limits. These errors will be amended and the updated data will be provided to the Secretary of the Department of Jobs, Precincts and Regions when completed.

## Attachments

The following attachments also form part of VicForests' Annual Harvesting and Regeneration Report (as previously indicated):

1. VicForests' 2018-19 Harvesting History Geodatabase file - HH\_201819.gdb
2. VicForests' 2018-19 Coupe Finalisation List
3. Undefined Forest Stand Harvest Area table

OBJECTID	SEASON	SILVSYS	FORESTTYPE	DATESTART	DATEEND	PREVF_STAR	COUPE_ADD	COUPE_NAME	COUPE_TYPE	HARV_ORG	SILV_SYS_A	SEASON_A	SILV_SYS_B	SEASON_B	SILV_SYS_C	SEASON_C	AREA_HA	Shape_Leng	Shape_Area
1	201819	THB	FMS	24/09/2018	30/06/2018	N	208-503-0024	Pack of Cards	Thinnings	VF	THB	201819					5.13976029436	964.83925038200	51397.60294360000
2	201819	THB	BIB	20/07/2017	30/06/2018	N	147-011-0102	A Gulls Tarnation	Multi-Harvest	VF	THB	201819					7.31877080880	1924.98179792000	73187.70808800000
3	201819	THB	FMS	1/12/2017	30/06/2018	N	172-518-0104	Drover's Boy		VF	THB	201819					4.37928502593	2181.19852676000	43792.85025930000
4	201819	THB	FMS	6/08/2018	30/06/2018	N	172-528-0107	Jackson's Clearing	Thinnings	VF	THB	201819					1.00294522461	619.19011502300	10029.45224610000
5	201819	THB	FMS	9/11/2018	30/06/2018	N	195-514-0005	Way to Say	Thinnings	VF	THB	201819					1.89751033808	526.00658565000	18975.10338080000
6	201819	STR	MMS	31/10/2017	26/03/2019	N	185-517-0101	Ben's Porcelain	Even-Aged	VF	STR	201819					2.26015531419	1190.50946141000	22601.55314190000
7	201819	STS	FMS	11/07/2017	30/06/2018	N	172-501-0107	Tea Break	Thinnings	VF	STS	201819					2.16164510871	998.04164093400	21616.45108710000
8	201819	THB	BIB	26/06/2018	30/06/2018	N	147-000-0011	Brough	Thinnings	VF	THB	201819					26.51279110420	6608.30311101000	265127.91104200000
9	201819	THB	BIB	11/09/2018	30/06/2018	N	146-009-0105	Ewe Tree	Multi-Harvest	VF	THB	201819					9.66590907598	1886.38925249000	96659.09075980000
10	201819	STS	FMS	29/11/2017	30/06/2018	N	193-535-0106	Healey	Thinnings	VF	STS	201819					1.67206335067	524.58282617100	16720.63350670000
11	201819	GSE	FMS		30/06/2018		743-501-0101	New Brew		VF	GSE	201819					1.83690417860	955.00376451600	18369.04178600000
12	201819	GSE	FMS		30/06/2018		740-506-0101	Cold Man		VF	GSE	201819					1.51477466514	928.05288418900	15147.74665140000
13	201819	GSE	FMS	1/09/2017	24/05/2019	N	740-503-0101	Freemans Track		VF	GSE	201819					4.28645743180	1756.42436655000	42864.57431800000
14	201819	STR	MMS	26/03/2019	30/06/2018	N	185-514-0101	Hickery Dickery	Even-Aged	VF	STR	201819					2.40687043548	1215.76134418000	24068.70435480000
15	201819	THB	FMS	18/06/2018	30/06/2018	N	177-000-0001	Bardi Grub	Thinnings	VF	THB	201819					5.64349240312	1092.00370017000	56434.92403120000
16	201819	THB	FMS	29/06/2018	30/06/2018	N	186-545-0104	String Line	Thinnings	VF	THB	201819					0.25013477281	181.62182573100	2501.34772811000
17	201819	THB	BIB	20/06/2019	30/06/2018	N	147-000-0013	Emmett	Thinnings	VF	THB	201819					0.82926125810	546.86981880600	8292.61258096000
18	201819	THB	BIB	1/12/2017	30/06/2018	N	153-002-0107	Tuffy		VF	THB	201819					3.59660043608	873.25823931500	35966.00436080000
19	201819	STS	BIB	5/06/2019	30/06/2018	N	156-004-0107	Dashing Dame	Thinnings	VF	STS	201819					2.87051272010	1070.08045571000	28705.12720100000
20	201819	STS	BIB	1/03/2018	30/06/2018	N	156-008-0120	Kanga-Whroo	Thinnings	VF	STS	201819					10.84646431240	3064.46460006000	108464.64312400000
21	201819	THB	BIB	18/06/2019	30/06/2018	N	147-000-0013	Emmett	Thinnings	VF	THB	201819					0.32813991102	298.96882383700	3281.39911022000
22	201819	THB	BIB	4/05/2018	30/06/2018	N	146-009-0104	Lamb Shrub	Thinnings	VF	THB	201819					26.37570992440	6737.17681263000	263757.09924400000
23	201819	THA	RRG	24/08/2018	30/06/2018	N	113-001-0105	Grassy River	Multi-Harvest	VF	THA	201819					33.23407168740	5209.77350951000	332340.71687400000
24	201819	THB	RRG	17/08/2018	30/06/2018	N	113-002-0002	Mephisto	Thinnings	VF	THB	201819					18.25895387330	1918.30620262000	182589.53873300000
25	201819	THA	RRG		30/06/2018		106-001-0108	Dry Swamp		VF	THA	201819					25.75655907980	3149.39532051000	257565.59079800000
26	201819	THA	RRG	1/06/2018	30/06/2018	N	106-003-0110	Cockatoo	Thinnings	VF	THA	201819					3.88501920041	1170.81090074000	38850.19200410000
27	201819	THA	RRG	5/12/2018	30/06/2018	N	106-004-0122	Shillinglaws	Multi-Harvest	VF	THA	201819					73.33561210090	5332.19244537000	733356.12100900000
28	201819	THB	RRG	5/12/2017	30/06/2018	N	106-004-0033	Fixtures and Fittings	Thinnings	VF	THB	201819					1.64666104949	694.86194034100	16466.61049490000
29	201819	THB	BIB	23/03/2018	30/06/2018	N	147-000-0012	O'Neil	Thinnings	VF	THB	201819					3.38698638676	1999.52811677000	33869.86386760000
30	201819	THA	BIB	18/06/2018	30/06/2018	N	146-010-0101	Hail a Taxi	Thinnings	VF	THA	201819					8.94737699570	3350.87633520000	89473.76995700000
31	201819	THA	BIB	1/02/2018	30/06/2018	N	147-002-0107	Red Post	Multi-Harvest	VF	THA	201819					22.62452430230	5826.76508544000	226245.24302300000
32	201819	THA	BIB	1/12/2017	30/06/2018	N	146-009-0105	Ewe Tree	Multi-Harvest	VF	THA	201819					14.12565305340	2265.83578401000	141256.53053400000
33	201819	THB	BIB	31/07/2018	30/06/2018	N	147-002-0104	Red Gate	Multi-Harvest	VF	THB	201819					12.06100232380	4849.34338770000	120610.02323800000
34	201819	THB	SUP	26/11/2018	30/06/2018	N	149-021-0109	Wright Brothers	Thinnings	VF	THB	201819					2.54789925723	1265.12597067000	25478.99257230000
35	201819	STS	RRG	12/12/2018	30/06/2018	N	035-016-0166	Clip go the Shears	Multi-Harvest	VF	STS	201819					33.37857755390	3013.10026538000	333785.77553900000
36	201819	THB	BIB	17/06/2019	30/06/2018	N	147-000-0011	Brough	Thinnings	VF	THB	201819					11.17478502910	4441.67791437000	111747.85029100000
37	201819	THB	MMS	3/10/2018	30/06/2018	N	254-000-0126	Clogged Pipe	Thinnings	VF	THB	201819					17.70263625190	2361.50161933000	177026.36251900000
38	201819	THB	FMS	3/10/2018	30/06/2018	N	254-000-0107	Clay Pipe	Thinnings	VF	THB	201819					32.87227720170	2414.03348705000	328722.77201700000
39	201819	THB	FMS	22/09/2018	30/06/2018	N	239-000-0122	Cullen	Thinnings	VF	THB	201819					0.62751952350	376.11572290900	6275.19523495000
40	201819	THB	BIB	23/11/2017	30/06/2018	N	147-003-0104	Gap Track	Multi-Harvest	VF	THB	201819					0.82972129847	750.45364038200	8297.21298467000
41	201819	THB	FMS	18/10/2017	30/06/2018	N	548-506-0104	Alaska	Thinnings	VF	THB	201819					30.52122879780	4397.66921043000	305212.28797800000
42	201819	STS	MAS	1/07/2018	30/06/2018	N	234-501-0008	Marina ST	Thinnings	VF	STS	201819					0.63915810649	507.13255177900	6391.58106485000
43	201819	STS	MAS	1/07/2018	30/06/2018	N	226-502-0013	Glimpse ST	Thinnings	VF	STS	201819					0.61620287869	335.58629060900	6162.02878685000
44	201819	THB	CMS	27/07/2018	30/06/2018	N	077-810-0101	Bylsmas	Thinnings	VF	THB	201819					3.34077774156	783.31799708400	33407.77741560000
45	201819	STS	MMS	3/09/2018	30/06/2018	N	226-502-0014	Eye Spy ST	Thinnings	VF	STS	201819					1.36225418703	983.05831461600	13622.54187030000
46	201819	STS	MMS	1/12/2017	30/06/2018	N	226-502-0012	Peek-a-boo ST		VF	STS	201819					1.24538678386	1466.44932848000	12453.86783860000
47	201819	THB	FMS	17/11/2017	30/06/2018	N	195-517-0012	Full Sun	Multi-Harvest	VF	THB	201819					6.03873582979	1115.36294612000	60387.35829790000
48	201819	THB	FMS	20/11/2017	30/06/2018	N	195-517-0012	Full Sun	Multi-Harvest	VF	THB	201819					6.03873582979	1115.36294612000	60387.35829790000
49	201819	THB	FMS	16/09/2017	30/06/2018	N	209-515-0004	The Tower	Thinnings	VF	THB	201819					1.15901796679	468.83357412100	11590.17966790000
50	201819	THB	RRG	17/09/2018	30/06/2018	N	113-001-0105	Grassy River	Multi-Harvest	VF	THB	201819					35.80443575970	6234.17760791000	358044.35759700000
51	201819	THB	RRG	1/09/2017	30/06/2018	N	106-007-0101	Barton Swamp	Thinnings	VF	THB	201819					112.16632369500	4275.99641993000	1121663.23695000000
52	201819	FWF	BIB	8/04/2019	30/06/2018	N	146-014-0104	Lightning		VF	FWF	201819					25.18027162920	3498.53950015000	251802.71629200000
53	201819	FWF	FMS	13/09/2018	4/06/2019	N	175-501-0103	Margherita		VF	FWF	201819					5.77363644948	1581.69301735000	57736.36449480000
54	201819	THB	BIB	25/01/2018	30/06/2018	N	147-002-0107	Red Post	Multi-Harvest	VF	THB	201819					20.15912994140	3625.41648296000	201591.29941400000
55	201819	STS	FMS	21/02/2019	30/06/2018	N	172-518-0107	Mallee Boy	Thinnings	VF	STS	201819					3.53422786998	1104.08304200000	35342.27869980000
56	201819	STS	MMS	22/09/2017	30/06/2018	N	185-535-0106	Camp Link Road	Thinnings	VF	STS	201819					16.21423111840	1805.23537360000	162142.31118400000
57	201819	FWF	RRG	26/02/2019	30/06/2018	N	035-016-0166	Clip go the Shears	Multi-Harvest	VF	FWF	201819					7.46449228878	1163.62717085000	74644.92288780000
58	201819	THB	RRG		30/06/2018		035-016-0110	Cherry Cheesecake		VF	THB	201819					7.85519828627	2468.87157915000	78551.98286270000
59	201819	THB	RRG	10/10/2017	30/06/2018	N	035-016-0128	Cherry Cola	Thinnings	VF	THB	201819					15.03093234430	3526.69975193000	150309.32344300000
60	201819	STS	RRG	6/06/2019	30/06/2018	N	035-016-0166	Clip go the Shears	Multi-Harvest	VF	STS	201819					25.68969663870	2736.45762006000	256896.96638700000
61	201819																		

76	201819	STS	FMS	1/12/2017	30/06/2018	N	172-528-0107	Jackson's Clearing		VF	STS	201819					0.75737990941	371.97500840200	7573.79909409000
77	201819	GSE	FMS	1/12/2017	30/06/2018	N	266-000-0009	Brick Hole		VF	GSE	201819					0.16202193038	167.14762731900	1620.21930378000
78	201819	THB	BIB	25/06/2018	30/06/2018	N	147-003-0103	Goldsborough Res Track	Multi-Harvest	VF	THB	201819					1.56881577579	935.58014605000	15688.15775790000
79	201819	THB	BIB	25/06/2018	30/06/2018	N	147-003-0103	Goldsborough Res Track	Multi-Harvest	VF	THB	201819					3.52315621335	1175.95486546000	35231.56213350000
80	201819	THB	BIB	9/09/2019	30/06/2018	N	147-002-0104	Red Gate	Multi-Harvest	VF	THB	201819					0.36433268491	366.45085768500	3643.32684907000
81	201819	THB	BIB	9/09/2019	30/06/2018	N	147-002-0104	Red Gate	Multi-Harvest	VF	THB	201819					0.42804160658	573.35896869200	4280.41606580000
82	201819	THB	BIB	28/06/2018	30/06/2018	N	151-003-0107	Set a Watchman	Thinnings	VF	THB	201819					44.29632243470	8704.85522974000	442963.22434700000
83	201819	THB	FMS	1/12/2017	30/06/2018	N	172-527-0107	Sandpiper		VF	THB	201819					2.52577147375	1106.41408592000	25257.71473750000
84	201819	STS	BIB	12/11/2018	30/06/2018	N	158-010-0101	Joyful Boy	Thinnings	VF	STS	201819					3.06158005751	888.36353063800	30615.80057510000
85	201819	THB	FMS	10/08/2018	30/06/2018	N	172-528-0103	Sand Groper	Thinnings	VF	THB	201819					0.95663811140	724.79226446000	9566.38111402000
86	201819	THB	FMS	24/09/2018	30/06/2018	N	208-503-0024	Pack of Cards	Thinnings	VF	THB	201819					0.86246276478	489.30278179900	8624.62764780000
87	201819	THB	FMS	1/07/2018	30/06/2018	N	239-503-0106	Timberpail	Thinnings	VF	THB	201819					1.22235900814	1235.56872502000	12223.59008140000
88	201819	THB	FMS	1/07/2018	30/06/2018	N	254-000-0101	Murnanes Firewood	Thinnings	VF	THB	201819					2.53953770032	856.09366454100	25395.37700320000
89	201819	THB	FMS	1/07/2018	30/06/2018	N	254-000-0106	PL Sth Firewood	Thinnings	VF	THB	201819					1.15022443709	718.50642160300	11502.24437090000
90	201819	THB	FMS	1/07/2018	30/06/2018	N	254-000-0132	Vocal Pipe	Thinnings	VF	THB	201819					0.42876129853	360.20548955700	4287.61298530000
91	201819	THB	RRG	28/06/2018	30/06/2018	N	106-004-0122	Shillinglaws	Multi-Harvest	VF	THB	201819					20.91130785810	2675.82086451000	209113.07858100000
92	201819	THB	RRG	28/06/2018	30/06/2018	N	106-004-0122	Shillinglaws	Multi-Harvest	VF	THB	201819					52.42367005500	4519.14171985000	524236.70055000000
93	201819	THA	SUP	1/12/2017	30/06/2018	N	149-021-0103	Erskine Track		VF	THA	201819					1.12575197411	1049.70695571000	11257.51974110000
94	201819	THB	BIB	11/02/2019	30/06/2018	N	156-006-0108	Lacey	Thinnings	VF	THB	201819					11.60537415100	1957.46613578000	116053.74151000000
95	201819	FWF	BIB	27/05/2015	30/06/2018	N	153-002-0108	Strong Man		VF	FWF	201819					6.71399886793	1876.81252162000	67139.98867930000
96	201819	STS	MMS	9/05/2018	30/06/2018	N	234-501-0103	Mt McKenzie Morris ST	Thinnings	VF	STS	201819					0.24334942446	476.97083293400	2433.49424463000
97	201819	THB	BIB	9/01/2019	30/06/2018	N	156-000-0006	Krabbelaar	Thinnings	VF	THB	201819					11.56094951110	2026.72055752000	115609.49511100000
98	201819	THB	BIB	1/12/2017	30/06/2018	N	153-003-0118	Arm Wrestle		VF	THB	201819					4.36737556404	2470.60473907000	43673.75564040000
99	201819	THB	BIB	1/12/2017	30/06/2018	N	153-003-0119	Flex		VF	THB	201819					17.45219888990	2357.37368030000	174521.98889900000



OBJECTID	SEASON	SILVSY	FORESTTYPE	DATESTART	DATEEND	PREVF_STAR	COUPE_ADD	COUPE_NAME	COUPE_TYPE	HARV_ORG	SILV_SYS_A	SEASON_A	SILV_SYS_B	SEASON_B	SILV_SYS_C	SEASON_C	AREA_HA	Shape_STAr	Shape_STLe	Shape_Leng	Shape_Area
1	201819	STR	FMS	7/05/2018	17/07/2018	N	833-503-0010	Montserrat	Even-Aged	VF	STR	201819					3.90525032548	0.00000000000	0.00000000000	1079.35782282000	39052.50325480000
2	201819	STR	CMS	1/07/2018	20/07/2018	N	743-513-0006	Oil Drill	Even-Aged	VF	STR	201819					13.87551633980	0.00000000000	0.00000000000	2667.06087990000	138755.16339800000
3	201819	STR	CMS	10/07/2018	24/07/2018	N	803-506-0010	Rag	Even-Aged	VF	STR	201819					23.71564556190	0.00000000000	0.00000000000	2597.90339281000	237156.45561900000
4	201819	STR	CMS	13/06/2018	9/07/2018	N	803-506-0008	Toe	Even-Aged	VF	STR	201819					12.99868974550	0.00000000000	0.00000000000	2097.16883744000	129986.89745500000
5	201819	STR	CMS	2/07/2018	13/07/2018	N	827-512-0013	Baker's Dozen	Even-Aged	VF	STR	201819					10.75483121830	0.00000000000	0.00000000000	107548.31218300000	107548.31218300000
6	201819	STR	FMS	23/05/2018	3/07/2018	N	827-512-0011	Legs Eleven	Even-Aged	VF	STR	201819					1.88067112492	0.00000000000	0.00000000000	1098.62892580000	18806.71124920000
7	201819	STR	FMS	23/07/2018	30/06/2018	N	807-502-0014	Oblong Sandwich	Even-Aged	VF	STR	201819					7.74972636090	0.00000000000	0.00000000000	1202.43590274000	77497.26360900000
8	201819	STR	CMS	5/06/2018	1/08/2018	N	801-508-0006	Casey Creek Road	Even-Aged	VF	STR	201819					22.07352672470	0.00000000000	0.00000000000	4029.92819400000	220735.26724700000
9	201819	STR	FMS	4/07/2018	30/06/2018	N	866-511-0011	Steel Cap	Even-Aged	VF	STR	201819					11.71305848960	0.00000000000	0.00000000000	2397.86939693000	117130.58489600000
10	201819	STR	CMS	9/07/2018	3/08/2018	N	801-504-0019	Lambournes Break	Even-Aged	VF	STR	201819					30.63806816970	0.00000000000	0.00000000000	3095.25118841000	306380.68169700000
11	201819	STR	FMS	13/07/2018	2/08/2018	N	827-510-0023	Artificial Red	Even-Aged	VF	STR	201819					20.33736277870	0.00000000000	0.00000000000	2967.03120449000	203373.62778700000
12	201819	STR	FMS	25/07/2018	23/08/2018	N	743-505-0003	Seaside	Even-Aged	VF	STR	201819					23.87436556650	0.00000000000	0.00000000000	2170.50503433000	238743.65566500000
13	201819	THB	CMS	7/06/2016	30/06/2018	N	735-510-0020	Lost Bull	Multi-Harvest	VF	THB	201819					6.20866811208	0.00000000000	0.00000000000	3070.81029712000	62086.68112080000
14	201819	STR	FMS	17/07/2018	14/08/2018	N	836-524-0020	Priestleys Road	Even-Aged	VF	STR	201819					16.49275437230	0.00000000000	0.00000000000	3345.38526259000	164927.54372300000
15	201819	STR	FMS	3/08/2018	15/08/2018	N	872-507-0014	Jazzy	Even-Aged	VF	STR	201819					11.31666962810	0.00000000000	0.00000000000	2248.72352834000	113166.69628100000
16	201819	STR	FMS	15/08/2018	7/09/2018	N	872-507-0001	Titan	Even-Aged	VF	STR	201819					3.08712593637	0.00000000000	0.00000000000	1120.65455534000	30871.25936370000
17	201819	STR	FMS	6/08/2018	7/09/2018	N	866-511-0011	Steel Cap	Even-Aged	VF	STR	201819					20.14373263410	0.00000000000	0.00000000000	2837.82439143000	201437.32634100000
18	201819	STR	FMS	22/08/2018	7/09/2018	N	829-512-0011	The Striga	Even-Aged	VF	STR	201819					13.74049140330	0.00000000000	0.00000000000	2091.43592191000	137404.91403300000
19	201819	STR	FMS	2/08/2018	6/09/2018	N	827-514-0002	Wings	Even-Aged	VF	STR	201819					26.03601614470	0.00000000000	0.00000000000	3376.65991642000	260360.16144700000
20	201819	THB	FMS		30/06/2018		735-510-0021	Stoney Creek	Uneven-Aged	VF	THB	201819					23.02769964920	0.00000000000	0.00000000000	3443.77431853000	230276.99649200000
21	201819	STR	FMS	27/04/2018	27/08/2018	N	295-518-0005	Hubba Bubba	Even-Aged	VF	STR	201819					7.13712649622	0.00000000000	0.00000000000	171371.26496220000	71371.26496220000
22	201819	STR	FMS	11/09/2018	27/09/2018	N	487-506-0073	Micahs Sole	Even-Aged	VF	STR	201819					2.60201331642	0.00000000000	0.00000000000	1436.24637290000	26020.13316420000
23	201819	STR	FMS	1/09/2018	27/09/2018	N	460-510-0032	Hand Out	Even-Aged	VF	STR	201819					11.51813097940	0.00000000000	0.00000000000	1694.84583795000	115181.30979400000
24	201819	STR	FMS	1/09/2018	25/09/2018	N	742-514-0008	Bone Crusher	Even-Aged	VF	STR	201819					29.51049411000	0.00000000000	0.00000000000	3152.02866707000	295104.94110000000
25	201819	STR	FMS	7/09/2018	1/10/2018	N	829-511-0019	Comaro	Even-Aged	VF	STR	201819					16.34757845240	0.00000000000	0.00000000000	2096.33560044000	163475.78452400000
26	201819	STR	FMS	13/06/2018	12/10/2018	N	483-501-0012	Quarry Gate	Even-Aged	VF	STR	201819					6.32680644291	0.00000000000	0.00000000000	2170.89059741000	63268.06442910000
27	201819	STR	FMS	5/09/2017	10/10/2018	N	349-514-0004	Shaq is Back	Even-Aged	VF	STR	201819					3.57583675853	0.00000000000	0.00000000000	1939.76137549000	35758.36758530000
28	201819	STR	MMS	21/08/2018	16/10/2018	N	295-527-0003	Hunter	Even-Aged	VF	STR	201819					24.52086707860	0.00000000000	0.00000000000	2193.69746990000	245208.67078600000
29	201819	STR	FMS	17/08/2018	1/10/2018	N	871-503-0018	King	Even-Aged	VF	STR	201819					34.47798175830	0.00000000000	0.00000000000	3656.51095344000	344779.81758300000
30	201819	STR	FMS	28/08/2018	18/10/2018	N	874-507-0020	Cold Current	Even-Aged	VF	STR	201819					7.10306140904	0.00000000000	0.00000000000	1593.09710167000	71030.61409040000
31	201819	STR	MMS	3/09/2018	31/10/2018	N	298-505-0003	Plane Hill	Even-Aged	VF	STR	201819					11.18023884190	0.00000000000	0.00000000000	2502.45225384000	111802.38841900000
32	201819	CFE	MAS	22/02/2018	31/10/2018	N	462-503-0008	Bunty	Even-Aged	VF	CFE	201819					12.30566857160	0.00000000000	0.00000000000	3687.40576368000	123056.68571600000
33	201819	STR	MMS	27/09/2018	17/10/2018	N	770-507-0015	Odelay	Even-Aged	VF	STR	201819					10.92342531660	0.00000000000	0.00000000000	1369.27111047700	109234.25316600000
34	201819	STR	FMS	3/09/2018	29/10/2018	N	484-501-0043	Puerile	Even-Aged	VF	STR	201819					29.48931240490	0.00000000000	0.00000000000	3302.89540458000	294893.12404900000
35	201819	STS	FMS	4/06/2018	4/10/2018	N	735-510-0018	East Bull	Thinnings	VF	STS	201819					27.42799369090	0.00000000000	0.00000000000	4968.36213483000	274279.93690900000
36	201819	STR	FMS	10/09/2018	3/07/2019	N	735-510-0028	Bulls Roar	Even-Aged	VF	STR	201819					6.92502577747	0.00000000000	0.00000000000	1667.84235888000	69250.25777470000
37	201819	STR	FMS	26/09/2018	25/10/2018	N	832-501-0018	Selwyn	Even-Aged	VF	STR	201819					12.27666374170	0.00000000000	0.00000000000	3758.17653279000	122766.63741700000
38	201819	STR	FMS	7/09/2018	19/10/2018	N	875-511-0013	Reverb	Even-Aged	VF	STR	201819					21.46779153600	0.00000000000	0.00000000000	2786.65737117000	214677.91536000000
39	201819	STR	MMS	25/10/2018	30/06/2018	N	895-513-0018	Cow Topia	Even-Aged	VF	STR	201819					2.42380592189	0.00000000000	0.00000000000	1218.04613137000	24238.05921890000
40	201819	STR	FMS	26/09/2018	25/10/2018	N	871-503-0008	Heartache Tonight	Even-Aged	VF	STR	201819					19.79640351720	0.00000000000	0.00000000000	2167.68671189000	197964.03517200000
41	201819	RRH	AAS	20/04/2018	12/11/2018	N	317-508-0011	Swing Mid	Even-Aged	VF	RRH	201819					12.44779227550	0.00000000000	0.00000000000	4386.53150471000	124477.92275500000
42	201819	RRH	AAS	7/06/2017	31/10/2018	N	320-501-0024	To Wong Foo	Even-Aged	VF	RRH	201819					11.27044785150	0.00000000000	0.00000000000	2266.08521026000	112704.47851500000
43	201819	STR	AAS	9/10/2018	31/10/2018	N	317-508-0003	Machikichori	Even-Aged	VF	STR	201819					4.17336065869	0.00000000000	0.00000000000	1781.44513007000	41733.60658690000
44	201819	CFE	AAS	15/10/2018	31/10/2018	N	317-508-0012	Nikeeta	Even-Aged	VF	CFE	201819					1.08295410647	0.00000000000	0.00000000000	515.39386024300	10829.54106470000
45	201819	RRH	AAS	3/04/2017	30/06/2018	N	287-508-0004	Rocksteady	Even-Aged	VF	RRH	201819					5.27978618866	0.00000000000	0.00000000000	1493.79941543000	52797.86188660000
46	201819	CFE	AAS	19/02/2018	30/06/2018	N	287-508-0003	Beebop	Even-Aged	VF	CFE	201819					4.45458561543	0.00000000000	0.00000000000	1349.69642723000	44545.85615430000
47	201819	STR	FMS	17/10/2018	30/06/2018	N	832-502-0011	Sock	Even-Aged	VF	STR	201819					4.52330798406	0.00000000000	0.00000000000	1352.14588006000	45233.07984060000
48	201819	STR	FMS	8/10/2018	31/10/2018	N	484-504-0003	Fire Scan	Even-Aged	VF	STR	201819					10.99047055470	0.00000000000	0.00000000000	2036.99791100500	109904.70554700000
49	201819	STR	FMS	1/11/2018	23/11/2018	N	832-502-0011	Sock	Even-Aged	VF	STR	201819					6.54395625885	0.00000000000	0.00000000000	2470.57224374000	65439.56258850000
50	201819	STR	FMS	29/10/2018	11/12/2018	N	891-507-0006	Off Aberdeen Road	Even-Aged	VF	STR	201819					11.21088412920	0.00000000000	0.00000000000	1473.96233832000	112108.84129200000
51	201819	RRH	AAS	3/04/2017	30/06/2018	N	287-508-0005	Dangermouse	Even-Aged	VF	RRH	201819					9.82122376138	0.00000000000	0.00000000000	1778.76913736000	98212.237613800

86	201819	STR	FMS	13/06/2018	18/10/2018	N	548-502-0013	Promenade	Even-Aged	VF	STR	201819					5.06647553290	0.00000000000	0.00000000000	2882.35437621000	50664.75532900000
87	201819	STR	FMS	3/07/2018	18/10/2018	N	548-502-0013	Promenade	Even-Aged	VF	STR	201819					2.46122407798	0.00000000000	0.00000000000	1487.15424686000	24612.24077980000
88	201819	STR	FMS	13/06/2018	18/10/2018	N	548-502-0012	Boulevard	Even-Aged	VF	STR	201819					11.92066971480	0.00000000000	0.00000000000	4046.60243603000	119206.69714800000
89	201819	STR	MAS	12/12/2018	19/02/2019	N	309-501-0003	Rampart	Even-Aged	VF	STR	201819					9.88439074790	0.00000000000	0.00000000000	1843.89274690000	98843.90747900000
90	201819	STR	CMS	6/12/2018	13/02/2019	N	834-511-0004	Stomp	Even-Aged	VF	STR	201819					23.74693744650	0.00000000000	0.00000000000	3867.16953003000	237469.37446500000
91	201819	STR	SHG	7/01/2019	20/02/2019	N	895-513-0020	Blackbird	Even-Aged	VF	STR	201819					27.80999486320	0.00000000000	0.00000000000	4274.07969473000	278099.49863200000
92	201819	STR	MMS	14/01/2019	28/02/2019	N	889-504-0011	Fashizzle	Even-Aged	VF	STR	201819					8.56940396779	0.00000000000	0.00000000000	1601.31822734000	85694.03967790000
93	201819	CFE	MAS	16/01/2019	5/03/2019	N	344-520-0003	Pieces of Eight	Even-Aged	VF	CFE	201819					14.08858174830	0.00000000000	0.00000000000	2052.48076684000	140885.81748300000
94	201819	CFE	MAS	22/03/2018	14/02/2019	N	346-508-0002	Rose Porteous	Even-Aged	VF	CFE	201819					25.92019528800	0.00000000000	0.00000000000	5063.89471282000	259201.95288000000
95	201819	RRH	AAS	7/01/2019	29/03/2019	N	312-011-0015	Dejavu	Even-Aged	VF	RRH	201819					11.54407661760	0.00000000000	0.00000000000	1968.05697679000	115440.76617600000
96	201819	STR	FMS	7/01/2019	19/02/2019	N	842-510-0023	Goanna Man	Even-Aged	VF	STR	201819					25.84709151350	0.00000000000	0.00000000000	3576.57220933000	258470.91513500000
97	201819	STR	FMS	18/12/2018	20/03/2019	N	483-504-0001	Lure	Even-Aged	VF	STR	201819					11.83894915390	0.00000000000	0.00000000000	2691.92896116000	118389.49153900000
98	201819	CFE	MAS	19/04/2018	20/03/2019	N	483-504-0015	Lazarev	Even-Aged	VF	CFE	201819					0.34848862166	0.00000000000	0.00000000000	244.01309862900	3484.88621656000
99	201819	STR	FMS	8/02/2019	28/02/2019	N	829-512-0003	Gun Slinger	Even-Aged	VF	STR	201819					16.45104437950	0.00000000000	0.00000000000	3125.44538222000	164510.44379500000
100	201819	STS	MAS	16/10/2018	30/06/2018	N	726-503-0003	Rarely Seen	Thinnings	VF	STS	201819					32.34530840900	0.00000000000	0.00000000000	3030.53668133000	323453.08409000000
101	201819	STR	FMS	12/11/2018	20/03/2019	N	462-504-0026	Litaize Road	Even-Aged	VF	STR	201819					31.50409063440	0.00000000000	0.00000000000	2935.38327129000	315040.90634400000
102	201819	CFE	AAS	24/01/2019	17/05/2019	N	686-506-0001	Page	Even-Aged	VF	CFE	201819					10.49765896140	0.00000000000	0.00000000000	2478.34915255000	104976.58961400000
103	201819	CFE	MAS	6/02/2019	14/03/2019	N	462-506-0017	Teamwork	Even-Aged	VF	CFE	201819					5.62279045823	0.00000000000	0.00000000000	1310.48265537000	56227.90458230000
104	201819	RRH	AAS	8/01/2019	30/06/2018	N	288-518-0006	Impala	Even-Aged	VF	RRH	201819					5.54375272298	0.00000000000	0.00000000000	2027.95570860000	55437.52722980000
105	201819	CFE	MMS	9/10/2018	30/06/2018	N	462-503-0011	Carters Hat	Even-Aged	VF	CFE	201819					6.88327720083	0.00000000000	0.00000000000	1902.70385386000	68832.77200830000
106	201819	STR	MMS	26/02/2019	2/04/2019	N	886-502-0014	Didget	Even-Aged	VF	STR	201819					12.38630204190	0.00000000000	0.00000000000	2678.94737962000	123863.02041900000
107	201819	STR	FMS	5/03/2019	29/03/2019	N	829-515-0012	Paris Zero	Even-Aged	VF	STR	201819					9.40913371666	0.00000000000	0.00000000000	2080.99836236000	94091.33716660000
108	201819	STR	FMS	18/01/2019	13/03/2019	N	832-502-0008	Tooth	Even-Aged	VF	STR	201819					24.10737034430	0.00000000000	0.00000000000	3107.02420365000	241073.70344300000
109	201819	CFE	MAS	23/01/2019	10/04/2019	N	350-513-0002	Basan	Even-Aged	VF	CFE	201819					14.88311688730	0.00000000000	0.00000000000	1755.09858963000	148831.16887300000
110	201819	CFE	AAS	10/12/2018	15/02/2019	N	749-501-0011	Downhill	Even-Aged	VF	CFE	201819					13.87080772370	0.00000000000	0.00000000000	1725.53356351000	138708.07723700000
111	201819	RRH	MAS	10/10/2018	30/06/2018	N	299-511-0003	The Slide	Even-Aged	VF	RRH	201819					5.99669262397	0.00000000000	0.00000000000	1690.51004697000	59966.92623970000
112	201819	RRH	MAS	11/09/2018	30/06/2018	N	286-510-0010	Sutcliffe	Even-Aged	VF	RRH	201819					16.26375510000	0.00000000000	0.00000000000	3818.53536353000	162637.55100000000
113	201819	RRH	MAS	5/12/2018	31/01/2019	N	286-510-0009	Harrison	Even-Aged	VF	RRH	201819					7.26181321834	0.00000000000	0.00000000000	1159.68862785000	72618.13218340000
114	201819	STR	FMS	20/02/2019	17/04/2019	N	460-510-0033	Loose Change	Even-Aged	VF	STR	201819					5.13237742800	0.00000000000	0.00000000000	930.66390149800	51323.77428000000
115	201819	RRH	AAS	24/02/2016	29/03/2019	N	287-511-0007	Sputnik	Even-Aged	VF	RRH	201819					4.60721337504	0.00000000000	0.00000000000	1438.68899040000	46072.13375040000
116	201819	CFE	AAS	6/09/2018	29/03/2019	N	287-511-0002	Columbia	Even-Aged	VF	CFE	201819					26.15811623500	0.00000000000	0.00000000000	2888.89777344000	261581.16235000000
117	201819	CFE	AAS	3/12/2018	28/02/2019	N	290-522-0002	Smokey	Even-Aged	VF	CFE	201819					16.02987381750	0.00000000000	0.00000000000	2627.46749360000	160298.73817500000
118	201819	RRH	AAS	17/12/2018	21/02/2019	N	288-519-0002	Ivanhoe	Even-Aged	VF	RRH	201819					5.97488778663	0.00000000000	0.00000000000	1192.94668007000	59748.87786630000
119	201819	RRH	AAS	4/02/2019	29/03/2019	N	290-524-0001	Brighton	Even-Aged	VF	RRH	201819					6.11948583621	0.00000000000	0.00000000000	1296.92261802000	61194.85836210000
120	201819	RRH	MAS	15/03/2019	30/04/2019	N	312-509-0007	Bayern Munich	Even-Aged	VF	RRH	201819					4.70521976571	0.00000000000	0.00000000000	1010.15439982000	47052.19765710000
121	201819	STS	MMS	22/01/2019	30/06/2018	N	395-505-0003	Plum Tree	Thinnings	VF	STS	201819					50.12244102990	0.00000000000	0.00000000000	3507.38504258000	501224.41029900000
122	201819	STR	CMS	1/02/2019	14/03/2019	N	834-514-0011	Smoko	Even-Aged	VF	STR	201819					11.25831565390	0.00000000000	0.00000000000	1704.42881335000	112583.15653900000
123	201819	STR	FMS	20/02/2019	9/04/2019	N	868-506-0009	Granton Road	Even-Aged	VF	STR	201819					31.68498531100	0.00000000000	0.00000000000	4433.31866099000	316849.85311000000
124	201819	STR	MMS	1/03/2019	17/04/2019	N	726-504-0013	Random	Even-Aged	VF	STR	201819					22.81558450560	0.00000000000	0.00000000000	3677.01131219000	228155.84505600000
125	201819	CFE	AAS	21/03/2019	9/04/2019	N	537-501-0002	Buffalo	Even-Aged	VF	CFE	201819					4.57232530475	0.00000000000	0.00000000000	1225.37477004000	45723.25304750000
126	201819	CFE	MAS	10/10/2018	30/06/2018	N	299-511-0002	Corkscrew	Even-Aged	VF	CFE	201819					18.51573031550	0.00000000000	0.00000000000	3031.09291308000	185157.30315500000
127	201819	CFE	SHG		30/06/2018		461-510-0005	Fairway	Even-Aged	VF	CFE	201819					9.79934077230	0.00000000000	0.00000000000	4373.86987304000	97993.40772300000
128	201819	CFE	MAS	27/02/2019	26/04/2019	N	462-506-0003	Tropical	Even-Aged	VF	CFE	201819					11.92844817060	0.00000000000	0.00000000000	1578.99562005000	119284.48170600000
129	201819	STR	FMS	20/03/2019	10/05/2019	N	465-503-0002	Bullock Creek	Even-Aged	VF	STR	201819					19.05419401660	0.00000000000	0.00000000000	4600.20865405000	190541.94016600000
130	201819	CFE	MAS	12/10/2018	21/12/2018	N	290-516-0001	Inter Milan	Even-Aged	VF	CFE	201819					6.36383067803	0.00000000000	0.00000000000	1756.78051345000	63638.30678030000
131	201819	STR	FMS	18/03/2019	6/05/2019	N	832-502-0019	Chimp	Even-Aged	VF	STR	201819					13.40845913700	0.00000000000	0.00000000000	1948.62122865000	134084.59137000000
132	201819	STR	FMS	17/04/2019	9/05/2019	N	833-502-0017	Brick	Even-Aged	VF	STR	201819					8.12458173104	0.00000000000	0.00000000000	1292.25064983000	81245.81731040000
133	201819	CFE	AAS	19/03/2019	17/05/2019	N	686-507-0013	Snow Leopard	Even-Aged	VF	CFE	201819					4.11640472770	0.00000000000	0.00000000000	1128.64135002000	41164.04727700000
134	201819	CFE	AAS	18/02/2019	17/05/2019	N	676-540-0001	Vincent Creek	Even-Aged	VF	CFE	201819					6.42476436351	0.00000000000	0.00000000000	1281.16715559000	64247.64363510000
135	201819	CFE	FMS	24/01/2019	30/06/2018	N	314-501-0007	Munich	Even-Aged	VF	CFE	201819					7.04366511511	0.00000000000	0.00000000000	1983.41120612000	70436.65115110000
136	201819	CFE	FMS	8/10/2018	29/05/2019	N	314-501-0006	Bayern	Even-Aged	VF	CFE	201819					3.54523901053	0.00000000000	0.00000000000	1201.95465349000	35452.39010530000
137	201819	CFE	AAS	14/01/2019	30/04/2019	N	318-512-0014	Run Through	Even												

172	201819	STR	FMS	14/05/2018	30/06/2018	N	345-513-0002	Ben 10	Even-Aged	VF	STR	201819					0.72637764298	0.00000000000	0.00000000000	524.01412952600	7263.77642975000
173	201819	STR	MMS	19/02/2019	27/06/2019	N	297-501-0001	Castella Quarry	Even-Aged	VF	STR	201819					27.39880235800	0.00000000000	0.00000000000	3970.79193155000	273988.02358000000
174	201819	CFE	AAS	3/06/2019	30/06/2018	N	320-503-0030	Quiche Lorraine	Even-Aged	VF	CFE	201819					9.67996144134	0.00000000000	0.00000000000	1986.49238183000	96799.61441340000
175	201819	STR	FMS	22/05/2019	30/06/2018	N	485-507-0013	Mid Week	Even-Aged	VF	STR	201819					5.12249735838	0.00000000000	0.00000000000	2426.71230416000	51224.97358380000
176	201819	STR	FMS	25/03/2019	22/05/2019	N	461-507-0015	Bens Reward	Even-Aged	VF	STR	201819					12.00592444670	0.00000000000	0.00000000000	1707.30556429000	120059.24446700000
177	201819	CFE	AAS	5/06/2019	30/06/2018	N	457-501-0016	Turners	Even-Aged	VF	CFE	201819					6.87855595207	0.00000000000	0.00000000000	1615.13442255000	68785.55952070000
178	201819	STS	FMS	8/04/2019	30/06/2018	N	461-503-0009	Martell	Thinnings	VF	STS	201819					10.25524349480	0.00000000000	0.00000000000	2006.75791268000	102552.43494800000
179	201819	CFE	MMS	9/10/2018	30/06/2018	N	462-503-0009	Flataza	Even-Aged	VF	CFE	201819					8.14121902529	0.00000000000	0.00000000000	2740.87450805000	81412.19025290000
180	201819	FWF	CMS	1/02/2017	30/06/2018	N	849-506-0005	Maramingo		VF	FWF	201819					0.84301353815	0.00000000000	0.00000000000	594.87364242800	8430.13538149000
181	201819	STR	FMS	16/05/2019	28/06/2019	N	842-512-0044	Midget	Even-Aged	VF	STR	201819					13.95072503630	0.00000000000	0.00000000000	2537.98527224000	139507.25036300000
182	201819	STR	CMS	15/05/2019	12/07/2019	N	835-511-0009	Negative Nickle	Even-Aged	VF	STR	201819					22.91316995070	0.00000000000	0.00000000000	2749.97050248000	229131.69950700000
183	201819	STR	FMS	10/09/2018	3/07/2019	N	735-510-0028	Bulls Roar	Even-Aged	VF	STR	201819					15.41568413260	0.00000000000	0.00000000000	2791.51658662000	154156.84132600000
184	201819	CFE	SHG	13/03/2019	24/06/2019	N	347-520-0004	Settlement Creek Track	Even-Aged	VF	CFE	201819					19.04341311450	0.00000000000	0.00000000000	2519.87199390000	190434.13114500000
185	201819	CFE	MAS	7/02/2019	30/06/2018	N	347-520-0008	Jumping Jack Flash	Even-Aged	VF	CFE	201819					17.49260382970	0.00000000000	0.00000000000	2738.01341575000	174926.03829700000
186	201819	THB	FMS	29/04/2019	5/07/2019	N	874-511-0002	Future Thurra Junction	Thinnings	VF	THB	201819					53.97892486550	0.00000000000	0.00000000000	10135.63743560000	539789.24865500000
187	201819	STR	FMS	1/06/2017	10/12/2018	N	739-510-0021	Murph	Even-Aged	VF	STR	201819					2.31226080237	0.00000000000	0.00000000000	772.36525183300	23122.60802370000
188	201819	RRH	AAS	4/03/2019	30/06/2018	N	288-520-0005	Pooh Bear	Even-Aged	VF	RRH	201819					5.82592861476	0.00000000000	0.00000000000	1858.96514740000	58259.28614760000
189	201819	STR	FMS	15/05/2019	30/06/2018	N	283-505-0015	Quadpod	Even-Aged	VF	STR	201819					4.45680850631	0.00000000000	0.00000000000	1574.86639374000	44568.08506310000
190	201819	RRH	FMS	3/05/2019	30/06/2018	N	297-504-0001	Gags	Even-Aged	VF	RRH	201819					14.98673324950	0.00000000000	0.00000000000	3486.54233481000	149867.33249500000
191	201819	RRH	MAS	23/05/2019	30/06/2018	N	287-508-0001	Ralf	Even-Aged	VF	RRH	201819					5.60165320916	0.00000000000	0.00000000000	1725.38564048000	56016.53209160000
192	201819	STR	FMS	20/05/2019	30/06/2018	N	283-503-0010	Sea Monkey	Even-Aged	VF	STR	201819					15.48890457510	0.00000000000	0.00000000000	2922.78715786000	154889.04575100000
193	201819	CFE	AAS	14/05/2019	30/06/2018	N	682-508-0001	Peg Leg	Even-Aged	VF	CFE	201819					0.95069551930	0.00000000000	0.00000000000	685.73481574000	9506.95519303000
194	201819	RRH	MAS	25/04/2018	11/01/2019	N	299-511-0006	Punt Road	Even-Aged	VF	RRH	201819					3.83468508985	0.00000000000	0.00000000000	1185.66223543000	38346.85089500000
195	201819	STR	FMS	6/06/2019	30/06/2018	N	284-503-0010	Herring	Even-Aged	VF	STR	201819					7.29474306904	0.00000000000	0.00000000000	2111.68466631000	72947.43069040000
196	201819	STR	FMS	30/05/2019	29/07/2019	N	829-511-0006	End of the Road	Even-Aged	VF	STR	201819					11.98678906740	0.00000000000	0.00000000000	1922.30450931000	119867.89067400000
197	201819	STR	FMS	7/06/2019	22/07/2019	N	483-501-0011	Buddies Quarry	Even-Aged	VF	STR	201819					8.61400147838	0.00000000000	0.00000000000	1599.39171141000	86140.01478380000
198	201819	STR	FMS	20/06/2019	30/06/2018	N	484-504-0002	Moby	Even-Aged	VF	STR	201819					4.61877614036	0.00000000000	0.00000000000	2461.23277516000	46187.76140360000
199	201819	CFE	MMS	21/11/2016	30/06/2018	N	314-501-0003	Abrasive Hill	Even-Aged	VF	CFE	201819					2.98229282049	0.00000000000	0.00000000000	1072.63771714000	29822.92820490000
200	201819	CFE	MAS	10/12/2018	30/06/2018	N	314-501-0002	Manchester	Even-Aged	VF	CFE	201819					8.59382797056	0.00000000000	0.00000000000	1743.50178546000	85938.27970560000
201	201819	STR	MMS	7/05/2018	12/10/2018	N	301-564-0002	Ski	Even-Aged	VF	STR	201819					13.35447700840	0.00000000000	0.00000000000	1730.56496136000	133544.77008400000
202	201819	STR	FMS	12/06/2018	12/10/2018	N	301-564-0003	Snow	Even-Aged	VF	STR	201819					6.35744610894	0.00000000000	0.00000000000	2011.77260689000	63574.46108940000
203	201819	RRH	MAS	3/04/2019	29/05/2019	N	287-512-0024	Dorset	Even-Aged	VF	RRH	201819					5.38346124747	0.00000000000	0.00000000000	1480.52003919000	53834.61247470000
204	201819	THB	FMS		30/06/2018		548-506-0007	Alaska TRP	Thinnings	VF	THB	201819					2.54142143036	0.00000000000	0.00000000000	646.98236115100	25414.21430360000
205	201819	STR	FMS	25/10/2018	30/06/2018	N	462-504-0007	Lake	Even-Aged	VF	STR	201819					24.49002092750	0.00000000000	0.00000000000	2418.80417712000	244900.20927500000
206	201819	STR	MMS	4/01/2019	30/06/2018	N	726-501-0006	Seldom Walked	Even-Aged	VF	STR	201819					18.22445738250	0.00000000000	0.00000000000	2336.89773288000	182244.57382500000
207	201819	STR	CMS	10/07/2018	24/07/2018	N	743-506-0002	Oil Bore	Even-Aged	VF	STR	201819					18.69630537330	0.00000000000	0.00000000000	1782.93210431000	186963.05373300000
208	201819	STR	FMS	14/06/2018	14/08/2018	N	866-511-0012	Chaps	Even-Aged	VF	STR	201819					13.91523745870	0.00000000000	0.00000000000	2581.06082462000	139152.37458700000
209	201819	STR	FMS	10/09/2018	26/10/2018	N	874-507-0022	Ebb Tide	Even-Aged	VF	STR	201819					7.74637136595	0.00000000000	0.00000000000	1552.19400253000	77463.71365950000
210	201819	STR	FMS	6/08/2018	22/08/2018	N	807-502-0014	Oblong Sandwich	Even-Aged	VF	STR	201819					13.06657264420	0.00000000000	0.00000000000	3003.66349899000	130665.72644200000
211	201819	STR	FMS	8/08/2018	19/10/2018	N	827-501-0028	Monsoon	Even-Aged	VF	STR	201819					34.57564123980	0.00000000000	0.00000000000	2703.85530925000	345756.41239800000
212	201819	STR	MMS	1/11/2018	5/12/2018	N	895-513-0018	Cow Topia	Even-Aged	VF	STR	201819					12.30851812130	0.00000000000	0.00000000000	3329.83199773000	123085.18121300000
213	201819	STR	FMS	22/03/2019	26/04/2019	N	870-501-0015	Laughing Dog	Even-Aged	VF	STR	201819					12.12059926180	0.00000000000	0.00000000000	2305.48172123000	121205.99261800000
214	201819	STR	FMS	8/05/2018	30/06/2018	N	739-510-0018	Firebreak	Even-Aged	VF	STR	201819					23.81970216640	0.00000000000	0.00000000000	3313.51006278000	238197.02166400000
215	201819	STR	FMS	28/02/2019	29/05/2019	N	833-518-0004	Bubbles	Even-Aged	VF	STR	201819					24.44863204990	0.00000000000	0.00000000000	3700.05097694000	244486.32049900000
216	201819	STR	FMS	6/06/2018	31/07/2018	N	823-506-0014	Point Break	Even-Aged	VF	STR	201819					10.32767334730	0.00000000000	0.00000000000	3636.19877838000	103276.73347300000
217	201819	THB	FMS	12/03/2019	30/06/2018	N	875-510-0006	Bakers Dozen	Thinnings	VF	THB	201819					36.22225135590	0.00000000000	0.00000000000	4106.77611616000	362222.51355900000
218	201819	STR	AAS	27/05/2019	23/07/2019	N	766-503-0028	Long One	Even-Aged	VF	STR	201819					12.39128867430	0.00000000000	0.00000000000	3406.42407877000	123912.88674300000
219	201819	STR	FMS	8/05/2019	12/06/2019	N	875-511-0011	Celestion	Even-Aged	VF	STR	201819					18.50742424660	0.00000000000	0.00000000000	3529.73041472000	185074.24246600000
220	201819	STR	MMS	6/05/2019	30/06/2018	N	892-517-0007	Six and Out	Even-Aged	VF	STR	201819					17.41170502760	0.00000000000	0.00000000000	3073.45042480000	174117.05027600000
221	201819	THB	MMS	13/06/2019	30/06/2018	N	892-517-0012	Browny	Uneven-Aged	VF	THB	201819					4.58149206453	0.00000000000	0.00000000000	1570.55663244000	45814.92064530000
222	201819	STR	FMS	13/09/2018	27/09/2018	N	487-506-0011	Hack	Even-Aged	VF	STR	201819					1.32420864811	0.00000000000	0.00000000000	702.78429727000	13242.08648110000
223	201819	CFE	MAS	14/01/2019	15/03/2019	N	347-515-0002	Below Learmonth	Even-Aged</												



OBJECTID	SEASON	SILVSYS	FORESTYPE	DATESTART	DATEEND	PREVF_STAR	COUPE_ADD	COUPE_NAME	COUPE_TYPE	HARV_ORG	SILV_SYS_A	SEASON_A	SILV_SYS_B	SEASON_B	SILV_SYS_C	SEASON_C	AREA_HA	Shape_STAr	Shape_STLe	Shape_Leng	Shape_Area
1	201819	STR	FMS	7/05/2018	17/07/2018	N	833-503-0010	Montserrat	Even-Aged	VF	STR	201819					3.90525032548	0.00000000000	0.00000000000	1079.35782282000	39052.50325480000
2	201819	STR	CMS	1/07/2018	20/07/2018	N	743-513-0006	Oil Drill	Even-Aged	VF	STR	201819					13.87551633980	0.00000000000	0.00000000000	2667.06087990000	138755.16339800000
3	201819	STR	CMS	10/07/2018	24/07/2018	N	803-506-0010	Rag	Even-Aged	VF	STR	201819					23.71564556190	0.00000000000	0.00000000000	2597.90339281000	237156.45561900000
4	201819	STR	CMS	13/06/2018	9/07/2018	N	803-506-0008	Toe	Even-Aged	VF	STR	201819					12.99868974550	0.00000000000	0.00000000000	2097.16883744000	129986.89745500000
5	201819	STR	CMS	2/07/2018	13/07/2018	N	827-512-0013	Baker's Dozen	Even-Aged	VF	STR	201819					10.75483121830	0.00000000000	0.00000000000	2197.01446151000	107548.31218300000
6	201819	STR	FMS	23/05/2018	3/07/2018	N	827-512-0011	Legs Eleven	Even-Aged	VF	STR	201819					1.88067112492	0.00000000000	0.00000000000	1098.62892580000	18806.71124920000
7	201819	STR	FMS	23/07/2018	30/06/2018	N	807-502-0014	Oblong Sandwich	Even-Aged	VF	STR	201819					7.74972636090	0.00000000000	0.00000000000	1202.43590274000	77497.26360900000
8	201819	STR	CMS	5/06/2018	1/08/2018	N	801-508-0006	Casey Creek Road	Even-Aged	VF	STR	201819					22.07352672470	0.00000000000	0.00000000000	4029.92819400000	220735.26724700000
9	201819	STR	FMS	4/07/2018	30/06/2018	N	866-511-0011	Steel Cap	Even-Aged	VF	STR	201819					11.71305848960	0.00000000000	0.00000000000	2397.86939693000	117130.58489600000
10	201819	STR	CMS	9/07/2018	3/08/2018	N	801-504-0019	Lambournes Break	Even-Aged	VF	STR	201819					30.63806816970	0.00000000000	0.00000000000	3095.25118841000	306380.68169700000
11	201819	STR	FMS	13/07/2018	2/08/2018	N	827-510-0023	Artificial Red	Even-Aged	VF	STR	201819					20.33736277870	0.00000000000	0.00000000000	2967.03120449000	203373.62778700000
12	201819	STR	FMS	25/07/2018	23/08/2018	N	743-505-0003	Seaside	Even-Aged	VF	STR	201819					23.87436556650	0.00000000000	0.00000000000	2170.50503433000	238743.65566500000
13	201819	THB	CMS	7/06/2016	30/06/2018	N	735-514-0020	Lost Bull	Multi-Harvest	VF	THB	201819					6.20866811208	0.00000000000	0.00000000000	3070.81029712000	62086.68112080000
14	201819	STR	FMS	17/07/2018	14/08/2018	N	836-524-0020	Priestleys Road	Even-Aged	VF	STR	201819					16.49275437230	0.00000000000	0.00000000000	3345.38526259000	164927.54372300000
15	201819	STR	FMS	3/08/2018	15/08/2018	N	872-507-0014	Jazzy	Even-Aged	VF	STR	201819					11.31666962810	0.00000000000	0.00000000000	2248.72352834000	113166.69628100000
16	201819	STR	FMS	15/08/2018	7/09/2018	N	872-507-0001	Titan	Even-Aged	VF	STR	201819					3.08712593637	0.00000000000	0.00000000000	1120.65455534000	30871.25936370000
17	201819	STR	FMS	6/08/2018	7/09/2018	N	866-511-0011	Steel Cap	Even-Aged	VF	STR	201819					20.14373263410	0.00000000000	0.00000000000	2837.82439143000	201437.32634100000
18	201819	STR	FMS	22/08/2018	7/09/2018	N	829-512-0011	The Striga	Even-Aged	VF	STR	201819					13.74049140330	0.00000000000	0.00000000000	2091.43592191000	137404.91403300000
19	201819	STR	FMS	2/08/2018	6/09/2018	N	827-514-0002	Wings	Even-Aged	VF	STR	201819					26.03601614470	0.00000000000	0.00000000000	3376.65991642000	260360.16144700000
20	201819	THB	FMS		30/06/2018		735-510-0021	Stoney Creek	Uneven-Aged	VF	THB	201819					23.02769964920	0.00000000000	0.00000000000	3443.77431853000	230276.99649200000
21	201819	STR	FMS	27/04/2018	27/08/2018	N	295-518-0005	Hubba Bubba	Even-Aged	VF	STR	201819					7.13712649622	0.00000000000	0.00000000000	1461.01256999000	71371.26496220000
22	201819	STR	FMS	11/09/2018	27/09/2018	N	487-506-0073	Micahs Sole	Even-Aged	VF	STR	201819					2.60201331642	0.00000000000	0.00000000000	1436.24637290000	26020.13316420000
23	201819	STR	FMS	1/09/2018	27/09/2018	N	460-510-0032	Hand Out	Even-Aged	VF	STR	201819					11.51813097940	0.00000000000	0.00000000000	1694.84583795000	115181.30979400000
24	201819	STR	FMS	1/09/2018	25/09/2018	N	742-514-0008	Bone Crusher	Even-Aged	VF	STR	201819					29.51049411000	0.00000000000	0.00000000000	3152.02866707000	295104.94110000000
25	201819	STR	FMS	7/09/2018	1/10/2018	N	829-511-0019	Comaro	Even-Aged	VF	STR	201819					16.34757845240	0.00000000000	0.00000000000	2096.33560044000	163475.78452400000
26	201819	STR	FMS	13/06/2018	12/10/2018	N	483-501-0012	Quarry Gate	Even-Aged	VF	STR	201819					6.32680644291	0.00000000000	0.00000000000	2170.89059741000	63268.06442910000
27	201819	STR	FMS	5/09/2017	10/10/2018	N	349-514-0004	Shaq is Back	Even-Aged	VF	STR	201819					3.57583675853	0.00000000000	0.00000000000	1939.76137549000	35758.36758530000
28	201819	STR	MMS	21/08/2018	16/10/2018	N	295-527-0003	Hunter	Even-Aged	VF	STR	201819					24.52086707860	0.00000000000	0.00000000000	2193.69743699000	245208.67078600000
29	201819	STR	FMS	17/08/2018	1/10/2018	N	871-503-0018	King	Even-Aged	VF	STR	201819					34.47798175830	0.00000000000	0.00000000000	3656.51095344000	344779.81758300000
30	201819	STR	FMS	28/08/2018	18/10/2018	N	874-507-0020	Cold Current	Even-Aged	VF	STR	201819					7.10306140904	0.00000000000	0.00000000000	1593.09710167000	71030.61409040000
31	201819	STR	MMS	3/09/2018	31/10/2018	N	298-505-0003	Plane Hill	Even-Aged	VF	STR	201819					11.18023884190	0.00000000000	0.00000000000	2502.45225384000	111802.38841900000
32	201819	CFE	MAS	22/02/2018	31/10/2018	N	462-503-0008	Bunty	Even-Aged	VF	CFE	201819					12.30566857160	0.00000000000	0.00000000000	3687.40576368000	123056.68571600000
33	201819	STR	MMS	27/09/2018	17/10/2018	N	770-507-0015	Odelay	Even-Aged	VF	STR	201819					10.92342531660	0.00000000000	0.00000000000	1369.27110477000	109234.25316600000
34	201819	STR	FMS	3/09/2018	29/10/2018	N	484-501-0043	Puerile	Even-Aged	VF	STR	201819					29.48931240490	0.00000000000	0.00000000000	3302.89540458000	294893.12404900000
35	201819	STS	FMS	4/06/2018	4/10/2018	N	735-510-0018	East Bull	Thinnings	VF	STS	201819					27.42799369090	0.00000000000	0.00000000000	4968.36213483000	274279.93690900000
36	201819	STR	FMS	10/09/2018	3/07/2019	N	735-510-0028	Bulls Roar	Even-Aged	VF	STR	201819					6.92502577747	0.00000000000	0.00000000000	1667.84235888000	69250.25777470000
37	201819	STR	FMS	26/09/2018	25/10/2018	N	832-501-0018	Selwyn	Even-Aged	VF	STR	201819					12.27666374170	0.00000000000	0.00000000000	3758.17653279000	122766.63741700000
38	201819	STR	FMS	7/09/2018	19/10/2018	N	875-511-0013	Reverb	Even-Aged	VF	STR	201819					21.46779153600	0.00000000000	0.00000000000	2786.65737117000	214677.91536000000
39	201819	STR	MMS	25/10/2018	30/06/2018	N	895-513-0018	Cow Topia	Even-Aged	VF	STR	201819					2.42380592189	0.00000000000	0.00000000000	1218.04613137000	24238.05921890000
40	201819	STR	FMS	26/09/2018	25/10/2018	N	871-503-0008	Heartache Tonight	Even-Aged	VF	STR	201819					19.79640351720	0.00000000000	0.00000000000	2167.68671189000	197964.03517200000
41	201819	RRH	AAS	20/04/2018	12/11/2018	N	317-508-0011	Swing Mid	Even-Aged	VF	RRH	201819					12.44779227550	0.00000000000	0.00000000000	4386.53150471000	124477.92275500000
42	201819	RRH	AAS	7/06/2017	31/10/2018	N	320-501-0024	To Wong Foo	Even-Aged	VF	RRH	201819					11.27044785150	0.00000000000	0.00000000000	2266.08521026000	112704.47851500000
43	201819	STR	AAS	9/10/2018	31/10/2018	N	317-508-0003	Machikichori	Even-Aged	VF	STR	201819					4.17336065869	0.00000000000	0.00000000000	1781.44513007000	41733.60658690000
44	201819	CFE	AAS	15/10/2018	31/10/2018	N	317-508-0012	Nikeeta	Even-Aged	VF	CFE	201819					1.08295410647	0.00000000000	0.00000000000	515.39386024300	10829.54106470000
45	201819	RRH	AAS	3/04/2017	30/06/2018	N	287-508-0004	Rocksteady	Even-Aged	VF	RRH	201819					5.27978618866	0.00000000000	0.00000000000	1493.79941543000	52797.86188660000
46	201819	CFE	AAS	19/02/2018	30/06/2018	N	287-508-0003	Beebop	Even-Aged	VF	CFE	201819					4.45458561543	0.00000000000	0.00000000000	1349.69642723000	44545.85615430000
47	201819	STR	FMS	17/10/2018	30/06/2018	N	832-502-0011	Sock	Even-Aged	VF	STR	201819					4.52330798406	0.00000000000	0.00000000000	1352.14588006000	45233.07984060000
48	201819	STR	FMS	8/10/2018	31/10/2018	N	484-504-0003	Fire Scan	Even-Aged	VF	STR	201819					10.99047055470	0.00000000000	0.00000000000	2036.99791100000	109904.70554700000
49	201819	STR	FMS	1/11/2018	23/11/2018	N	832-502-0011	Sock	Even-Aged	VF	STR	201819					6.54395625885	0.00000000000	0.00000000000	2470.57224374000	65439.56258850000
50	201819	STR	FMS	29/10/2018	11/12/2018	N	891-507-0006	Off Aberdeen Road	Even-Aged	VF	STR	201819					11.21088412920	0.00000000000	0.00000000000	1473.96233832000	112108.84129200000
51	201819	RRH	AAS	3/04/2017	30/06/2018	N	287-508-0005	Dangermouse	Even-Aged	VF	RRH	201819					9.82122376138	0.00000000000	0.00000000000	1778.76917360000	98212.23761380000

89	201819	STR	MAS	12/12/2018	19/02/2019	N	309-501-0003	Rampart	Even-Aged	VF	STR	201819					9.88439074790	0.00000000000	0.00000000000	1843.89274690000	98843.90747900000
90	201819	STR	CMS	6/12/2018	13/02/2019	N	834-511-0004	Stomp	Even-Aged	VF	STR	201819					23.74693744650	0.00000000000	0.00000000000	3867.16953003000	237469.37446500000
91	201819	STR	SHG	7/01/2019	20/02/2019	N	895-513-0020	Blackbird	Even-Aged	VF	STR	201819					27.80999486320	0.00000000000	0.00000000000	4274.07969473000	278099.94863200000
92	201819	STR	MMS	14/01/2019	28/02/2019	N	889-504-0011	Fashizzle	Even-Aged	VF	STR	201819					8.56940396779	0.00000000000	0.00000000000	1601.31822734000	85694.03967790000
93	201819	CFE	MAS	16/01/2019	5/03/2019	N	344-520-0003	Pieces of Eight	Even-Aged	VF	CFE	201819					14.08858174830	0.00000000000	0.00000000000	2052.48076684000	140885.81748300000
94	201819	CFE	MAS	22/03/2018	14/02/2019	N	346-508-0002	Rose Porteous	Even-Aged	VF	CFE	201819					25.92019528800	0.00000000000	0.00000000000	5063.89471282000	259201.95288000000
95	201819	RRH	AAS	7/01/2019	29/03/2019	N	312-011-0015	Dejavu	Even-Aged	VF	RRH	201819					11.54407661760	0.00000000000	0.00000000000	1968.05697679000	115440.76617600000
96	201819	STR	FMS	7/01/2019	19/02/2019	N	842-510-0023	Goanna Man	Even-Aged	VF	STR	201819					25.84709151350	0.00000000000	0.00000000000	3576.57220933000	258470.91513500000
97	201819	STR	FMS	18/12/2018	20/03/2019	N	483-504-0001	Lure	Even-Aged	VF	STR	201819					11.83894915390	0.00000000000	0.00000000000	2691.92896116000	118389.49153900000
98	201819	CFE	MAS	19/04/2018	20/03/2019	N	483-504-0015	Lazarev	Even-Aged	VF	CFE	201819					0.34848862166	0.00000000000	0.00000000000	244.01309862900	3484.88621656000
99	201819	STR	FMS	8/02/2019	28/02/2019	N	829-512-0003	Gun Slinger	Even-Aged	VF	STR	201819					16.45104437950	0.00000000000	0.00000000000	3125.44538222000	164510.44379500000
100	201819	STS	MAS	16/10/2018	30/06/2018	N	726-503-0003	Rarely Seen	Thinnings	VF	STS	201819					32.34530840900	0.00000000000	0.00000000000	3030.53668133000	323453.08409000000
101	201819	STR	FMS	12/11/2018	20/03/2019	N	462-504-0026	Litaize Road	Even-Aged	VF	STR	201819					31.50409063440	0.00000000000	0.00000000000	2935.38327129000	315040.90634400000
102	201819	CFE	AAS	24/01/2019	17/05/2019	N	686-506-0001	Page	Even-Aged	VF	CFE	201819					10.49765896140	0.00000000000	0.00000000000	2478.34915255000	104976.58961400000
103	201819	CFE	MAS	6/02/2019	14/03/2019	N	462-506-0017	Teamwork	Even-Aged	VF	CFE	201819					5.62279045823	0.00000000000	0.00000000000	1310.48265537000	56227.90458230000
104	201819	RRH	AAS	8/01/2019	30/06/2018	N	288-518-0006	Impala	Even-Aged	VF	RRH	201819					5.54375272298	0.00000000000	0.00000000000	2027.95570860000	55437.52722980000
105	201819	CFE	MMS	9/10/2018	30/06/2018	N	462-503-0011	Carters Hat	Even-Aged	VF	CFE	201819					6.88327720083	0.00000000000	0.00000000000	1902.70385386000	68832.77200830000
106	201819	STR	MMS	26/02/2019	2/04/2019	N	886-502-0014	Didget	Even-Aged	VF	STR	201819					12.38630204190	0.00000000000	0.00000000000	2678.94737962000	123863.02041900000
107	201819	STR	FMS	5/03/2019	29/03/2019	N	829-515-0012	Paris Zero	Even-Aged	VF	STR	201819					9.40913371666	0.00000000000	0.00000000000	2080.99836236000	94091.33716660000
108	201819	STR	FMS	18/01/2019	13/03/2019	N	832-502-0008	Tooth	Even-Aged	VF	STR	201819					24.10737034430	0.00000000000	0.00000000000	3107.02420365000	241073.70344300000
109	201819	CFE	MAS	23/01/2019	10/04/2019	N	350-513-0002	Basan	Even-Aged	VF	CFE	201819					14.88311688730	0.00000000000	0.00000000000	1755.09858963000	148831.16887300000
110	201819	CFE	AAS	10/12/2018	15/02/2019	N	749-501-0011	Downhill	Even-Aged	VF	CFE	201819					13.87080772370	0.00000000000	0.00000000000	1725.53356351000	138708.07723700000
111	201819	RRH	MAS	10/10/2018	30/06/2018	N	299-511-0003	The Slide	Even-Aged	VF	RRH	201819					5.99669262397	0.00000000000	0.00000000000	1690.51004697000	59966.92623970000
112	201819	RRH	MAS	11/09/2018	30/06/2018	N	286-510-0010	Sutcliffe	Even-Aged	VF	RRH	201819					16.26375510000	0.00000000000	0.00000000000	3818.53536353000	162637.55100000000
113	201819	RRH	MAS	5/12/2018	31/01/2019	N	286-510-0009	Harrison	Even-Aged	VF	RRH	201819					7.26181321834	0.00000000000	0.00000000000	1159.68862785000	72618.13218340000
114	201819	STR	FMS	20/02/2019	17/04/2019	N	460-510-0033	Loose Change	Even-Aged	VF	STR	201819					5.13237742800	0.00000000000	0.00000000000	930.66390149800	51323.77428000000
115	201819	RRH	AAS	24/02/2016	29/03/2019	N	287-511-0007	Sputnik	Even-Aged	VF	RRH	201819					4.60721337504	0.00000000000	0.00000000000	1438.68899404000	46072.13375040000
116	201819	CFE	AAS	6/09/2018	29/03/2019	N	287-511-0002	Columbia	Even-Aged	VF	CFE	201819					26.15811623500	0.00000000000	0.00000000000	2888.89777344000	261581.16235000000
117	201819	CFE	AAS	3/12/2018	28/02/2019	N	290-522-0002	Smokey	Even-Aged	VF	CFE	201819					16.02987381750	0.00000000000	0.00000000000	2627.46749360000	160298.73817500000
118	201819	RRH	AAS	17/12/2018	21/02/2019	N	288-519-0002	Ivanhoe	Even-Aged	VF	RRH	201819					5.97488778663	0.00000000000	0.00000000000	1192.94668007000	59748.87786630000
119	201819	RRH	AAS	4/02/2019	29/03/2019	N	290-524-0001	Brighton	Even-Aged	VF	RRH	201819					6.11948583621	0.00000000000	0.00000000000	1296.92261802000	61194.85836210000
120	201819	RRH	MAS	15/03/2019	30/04/2019	N	312-509-0007	Bayern Munich	Even-Aged	VF	RRH	201819					4.70521976571	0.00000000000	0.00000000000	1010.15439982000	47052.19765710000
121	201819	STS	MMS	22/01/2019	30/06/2018	N	395-505-0003	Plum Tree	Thinnings	VF	STS	201819					50.12244102990	0.00000000000	0.00000000000	3507.38504258000	501224.41029900000
122	201819	STR	CMS	1/02/2019	14/03/2019	N	834-514-0011	Smoko	Even-Aged	VF	STR	201819					11.25831565390	0.00000000000	0.00000000000	1704.42881335000	112583.15653900000
123	201819	STR	FMS	20/02/2019	9/04/2019	N	868-506-0009	Granton Road	Even-Aged	VF	STR	201819					31.68498531100	0.00000000000	0.00000000000	4433.31866099000	316849.85311000000
124	201819	STR	MMS	1/03/2019	17/04/2019	N	726-504-0013	Random	Even-Aged	VF	STR	201819					22.81558450560	0.00000000000	0.00000000000	3677.01131219000	228155.84505600000
125	201819	CFE	AAS	21/03/2019	9/04/2019	N	537-501-0002	Buffalo	Even-Aged	VF	CFE	201819					4.57232530475	0.00000000000	0.00000000000	1225.37477004000	45723.25304750000
126	201819	CFE	MAS	10/10/2018	30/06/2018	N	299-511-0002	Corkscrew	Even-Aged	VF	CFE	201819					18.51573031550	0.00000000000	0.00000000000	3031.09291308000	185157.30315500000
127	201819	CFE	SHG		30/06/2018		461-510-0005	Fairway	Even-Aged	VF	CFE	201819					9.79934077230	0.00000000000	0.00000000000	4373.86987304000	97993.40772300000
128	201819	CFE	MAS	27/02/2019	26/04/2019	N	462-506-0003	Tropical	Even-Aged	VF	CFE	201819					11.92844817060	0.00000000000	0.00000000000	1578.99562005000	119284.48170600000
129	201819	STR	FMS	20/03/2019	10/05/2019	N	465-503-0002	Bullock Creek	Even-Aged	VF	STR	201819					19.05419401660	0.00000000000	0.00000000000	4600.20865405000	190541.94016600000
130	201819	CFE	MAS	12/10/2018	21/12/2018	N	290-516-0001	Inter Milan	Even-Aged	VF	CFE	201819					6.36383067803	0.00000000000	0.00000000000	1756.78051345000	63638.30678030000
131	201819	STR	FMS	18/03/2019	6/05/2019	N	832-502-0019	Chimp	Even-Aged	VF	STR	201819					13.40845913700	0.00000000000	0.00000000000	1948.62122865000	134084.59137000000
132	201819	STR	FMS	17/04/2019	9/05/2019	N	833-502-0017	Brick	Even-Aged	VF	STR	201819					8.12458173104	0.00000000000	0.00000000000	1292.25064983000	81245.81731040000
133	201819	CFE	AAS	19/03/2019	17/05/2019	N	686-507-0013	Snow Leopard	Even-Aged	VF	CFE	201819					4.11640472770	0.00000000000	0.00000000000	1128.64135002000	41164.04727700000
134	201819	CFE	AAS	18/02/2019	17/05/2019	N	676-540-0001	Vincent Creek	Even-Aged	VF	CFE	201819					6.42476436351	0.00000000000	0.00000000000	1281.16215559000	64247.64363510000
135	201819	CFE	FMS	24/01/2019	30/06/2018	N	314-501-0007	Munich	Even-Aged	VF	CFE	201819					7.04366511511	0.00000000000	0.00000000000	1983.41120612000	70436.65115110000
136	201819	CFE	FMS	8/10/2018	29/05/2019	N	314-501-0006	Bayern	Even-Aged	VF	CFE	201819					3.54523901053	0.00000000000	0.00000000000	1201.95465349000	35452.39010530000
137	201819	CFE	AAS	14/01/2019	30/04/2019	N	318-512-0014	Run Through	Even-Aged	VF	CFE	201819					22.65527207810	0.00000000000	0.00000000000	3089.80309123000	226552.72078100000
138	201819	CFE	MAS	1/05/2019	30/06/2018	N	288-512-0001	Snobs 13	Even-Aged	VF	CFE	201819					3.14242046185	0.00000000000	0.00000000000	747.01254693800	31424.20461850000
139	201819	CFE	AAS	11/03/2019	30/06/2018	N	288-512-0002	Snobs 14	Even-Aged	VF	CFE	201819					8.48482954054	0.00000000000	0.00000000000	1929.92273165000	84848.29540540000
140	201819	CFE	AAS	8/04/2019	30/06/2018	N	289-505-0003	Everest													

178	201819	STS	FMS	8/04/2019	30/06/2018	N	461-503-0009	Martell	Thinnings	VF	STS	201819					10.25524349480	0.00000000000	0.00000000000	2006.75791268000	102552.43494800000
179	201819	CFE	MMS	9/10/2018	30/06/2018	N	462-503-0009	Flataza	Even-Aged	VF	CFE	201819					8.14121902529	0.00000000000	0.00000000000	2740.87450805000	81412.19025290000
180	201819	FWF	CMS	1/02/2017	30/06/2018	N	849-506-0005	Maramingo		VF	FWF	201819					0.84301353815	0.00000000000	0.00000000000	594.87364242800	8430.13538149000
181	201819	STR	FMS	16/05/2019	28/06/2019	N	842-512-0044	Midget	Even-Aged	VF	STR	201819					13.95072503630	0.00000000000	0.00000000000	2537.98527224000	139507.25036300000
182	201819	STR	CMS	15/05/2019	12/07/2019	N	835-511-0009	Negative Nickle	Even-Aged	VF	STR	201819					22.91316995070	0.00000000000	0.00000000000	2749.97050248000	229131.69950700000
183	201819	STR	FMS	10/09/2018	3/07/2019	N	735-510-0028	Bulls Roar	Even-Aged	VF	STR	201819					15.41568413260	0.00000000000	0.00000000000	2791.51658662000	154156.84132600000
184	201819	CFE	SHG	13/03/2019	24/06/2019	N	347-520-0004	Settlement Creek Track	Even-Aged	VF	CFE	201819					19.04341311450	0.00000000000	0.00000000000	2519.87199390000	190434.13114500000
185	201819	CFE	MAS	7/02/2019	30/06/2018	N	347-520-0008	Jumping Jack Flash	Even-Aged	VF	CFE	201819					17.49260382970	0.00000000000	0.00000000000	2738.01341575000	174926.03829700000
186	201819	THB	FMS	29/04/2019	5/07/2019	N	874-511-0002	Future Thurra Junction	Thinnings	VF	THB	201819					53.97892486550	0.00000000000	0.00000000000	10135.63743560000	539789.24865500000
187	201819	STR	FMS	1/06/2017	10/12/2018	N	739-510-0021	Murph	Even-Aged	VF	STR	201819					2.31226080237	0.00000000000	0.00000000000	772.36525183300	23122.60802370000
188	201819	RRH	AAS	4/03/2019	30/06/2018	N	288-520-0005	Pooh Bear	Even-Aged	VF	RRH	201819					5.82592861476	0.00000000000	0.00000000000	1858.96514740000	58259.28614760000
189	201819	STR	FMS	15/05/2019	30/06/2018	N	283-505-0015	Quadpod	Even-Aged	VF	STR	201819					4.45680850631	0.00000000000	0.00000000000	1574.86639374000	44568.08506310000
190	201819	RRH	FMS	3/05/2019	30/06/2018	N	297-504-0001	Gags	Even-Aged	VF	RRH	201819					14.98673324950	0.00000000000	0.00000000000	3486.54233481000	149867.33249500000
191	201819	RRH	MAS	23/05/2019	30/06/2018	N	287-508-0001	Ralf	Even-Aged	VF	RRH	201819					5.60165320916	0.00000000000	0.00000000000	1725.38564048000	56016.53209160000
192	201819	STR	FMS	20/05/2019	30/06/2018	N	283-503-0010	Sea Monkey	Even-Aged	VF	STR	201819					15.48890457510	0.00000000000	0.00000000000	2922.78715786000	154889.04575100000
193	201819	CFE	AAS	14/05/2019	30/06/2018	N	682-508-0001	Peg Leg	Even-Aged	VF	CFE	201819					0.95069551930	0.00000000000	0.00000000000	685.73481574000	9506.95519303000
194	201819	RRH	MAS	25/04/2018	11/01/2019	N	299-511-0006	Punt Road	Even-Aged	VF	RRH	201819					3.83468508985	0.00000000000	0.00000000000	1185.66223543000	38346.85089850000
195	201819	STR	FMS	6/06/2019	30/06/2018	N	284-503-0010	Herring	Even-Aged	VF	STR	201819					7.29474306904	0.00000000000	0.00000000000	2111.68466631000	72947.43069040000
196	201819	STR	FMS	30/05/2019	29/07/2019	N	829-511-0006	End of the Road	Even-Aged	VF	STR	201819					11.98678906740	0.00000000000	0.00000000000	1922.30450931000	119867.89067400000
197	201819	STR	FMS	7/06/2019	22/07/2019	N	483-501-0011	Buddies Quarry	Even-Aged	VF	STR	201819					8.61400147838	0.00000000000	0.00000000000	1599.39171141000	86140.01478380000
198	201819	STR	FMS	20/06/2019	30/06/2018	N	484-504-0002	Moby	Even-Aged	VF	STR	201819					4.61877614036	0.00000000000	0.00000000000	2461.23277516000	46187.76140360000
199	201819	CFE	MMS	21/11/2016	30/06/2018	N	314-501-0003	Abrasive Hill	Even-Aged	VF	CFE	201819					2.98229282049	0.00000000000	0.00000000000	1072.63771714000	29822.92820490000
200	201819	CFE	MAS	10/12/2018	30/06/2018	N	314-501-0002	Manchester	Even-Aged	VF	CFE	201819					8.59382797056	0.00000000000	0.00000000000	1743.50178546000	85938.27970560000
201	201819	STR	MMS	7/05/2018	12/10/2018	N	301-564-0002	Ski	Even-Aged	VF	STR	201819					13.35447700840	0.00000000000	0.00000000000	1730.56496136000	133544.77008400000
202	201819	STR	FMS	12/06/2018	12/10/2018	N	301-564-0003	Snow	Even-Aged	VF	STR	201819					6.35744610894	0.00000000000	0.00000000000	2011.77260689000	63574.46108940000
203	201819	RRH	MAS	3/04/2019	29/05/2019	N	287-512-0024	Dorset	Even-Aged	VF	RRH	201819					5.38346124747	0.00000000000	0.00000000000	1480.52003919000	53834.61247470000
204	201819	THB	FMS		30/06/2018		548-506-0007	Alaska TRP	Thinnings	VF	THB	201819					2.54142143036	0.00000000000	0.00000000000	646.98236115100	25414.21430360000
205	201819	STR	FMS	25/10/2018	30/06/2018	N	462-504-0007	Lake	Even-Aged	VF	STR	201819					24.49002092750	0.00000000000	0.00000000000	2418.80417712000	244900.20927500000
206	201819	STR	MMS	4/01/2019	30/06/2018	N	726-501-0006	Seldom Walked	Even-Aged	VF	STR	201819					18.22445738250	0.00000000000	0.00000000000	2336.89773288000	182244.57382500000
207	201819	STR	CMS	10/07/2018	24/07/2018	N	743-506-0002	Oil Bore	Even-Aged	VF	STR	201819					18.69630537330	0.00000000000	0.00000000000	1782.93210431000	186963.05373300000
208	201819	STR	FMS	14/06/2018	14/08/2018	N	866-511-0012	Chaps	Even-Aged	VF	STR	201819					13.91523745870	0.00000000000	0.00000000000	2581.06082462000	139152.37458700000
209	201819	STR	FMS	10/09/2018	26/10/2018	N	874-507-0022	Ebb Tide	Even-Aged	VF	STR	201819					7.74637136595	0.00000000000	0.00000000000	1552.19400253000	77463.71365950000
210	201819	STR	FMS	6/08/2018	22/08/2018	N	807-502-0014	Oblong Sandwich	Even-Aged	VF	STR	201819					13.06657264420	0.00000000000	0.00000000000	3003.66349899000	130665.72644200000
211	201819	STR	FMS	8/08/2018	19/10/2018	N	827-501-0028	Monsoon	Even-Aged	VF	STR	201819					34.57564123980	0.00000000000	0.00000000000	2703.85530925000	345756.41239800000
212	201819	STR	MMS	1/11/2018	5/12/2018	N	895-513-0018	Cow Topia	Even-Aged	VF	STR	201819					12.30851812130	0.00000000000	0.00000000000	3329.83199773000	123085.18121300000
213	201819	STR	FMS	22/03/2019	26/04/2019	N	870-501-0015	Laughing Dog	Even-Aged	VF	STR	201819					12.12059926180	0.00000000000	0.00000000000	2305.48172123000	121205.99261800000
214	201819	STR	FMS	8/05/2018	30/06/2018	N	739-510-0018	Firebreak	Even-Aged	VF	STR	201819					23.81970216640	0.00000000000	0.00000000000	3313.51006278000	238197.02166400000
215	201819	STR	FMS	28/02/2019	29/05/2019	N	833-518-0004	Bubbles	Even-Aged	VF	STR	201819					24.44863204990	0.00000000000	0.00000000000	3700.05097694000	244486.32049900000
216	201819	STR	FMS	6/06/2018	31/07/2018	N	823-506-0014	Point Break	Even-Aged	VF	STR	201819					10.32767334730	0.00000000000	0.00000000000	3636.19877838000	103276.73347300000
217	201819	THB	FMS	12/03/2019	30/06/2018	N	875-510-0006	Bakers Dozen	Thinnings	VF	THB	201819					36.22225135590	0.00000000000	0.00000000000	4106.77611616000	362222.51355900000
218	201819	STR	AAS	27/05/2019	23/07/2019	N	766-503-0028	Long One	Even-Aged	VF	STR	201819					12.39128867430	0.00000000000	0.00000000000	3406.42407877000	123912.88674300000
219	201819	STR	FMS	8/05/2019	12/06/2019	N	875-511-0011	Celestion	Even-Aged	VF	STR	201819					18.50742424660	0.00000000000	0.00000000000	3529.73041472000	185074.24246600000
220	201819	STR	MMS	6/05/2019	30/06/2018	N	892-517-0007	Six and Out	Even-Aged	VF	STR	201819					17.41170502760	0.00000000000	0.00000000000	3073.45042480000	174117.05027600000
221	201819	THB	MMS	13/06/2019	30/06/2018	N	892-517-0012	Brownny	Uneven-Aged	VF	THB	201819					4.58149206453	0.00000000000	0.00000000000	1570.55663244000	45814.92064530000
222	201819	STR	FMS	13/09/2018	27/09/2018	N	487-506-0011	Hack	Even-Aged	VF	STR	201819					1.32420864811	0.00000000000	0.00000000000	702.78429727000	13242.08648110000
223	201819	CFE	MAS	14/01/2019	15/03/2019	N	347-515-0002	Below Learmonth	Even-Aged	VF	CFE	201819					12.34702308440	0.00000000000	0.00000000000	2805.98675528000	123470.23084400000
224	201819	CFE	AAS	17/12/2018	17/04/2019	N	457-504-0005	Ball Bearing	Even-Aged	VF	CFE	201819					16.42177854730	0.00000000000	0.00000000000	4351.12641878000	164217.78547300000



OBJECTID	OBJECTID_1	SEASON	SILVSY	FORESTTYPE	DATESTART	DATEEND	PREVF_STAR	COUPE_ADD	COUPE_NAME	COUPE_TYPE	HARV_ORG	SILV_SYS_A	SEASON_A	SILV_SYS_B	SEASON_B	SILV_SYS_C	SEASON_C	AREA_HA	Shape_STAR	Shape_STLe	Shape_Leng	Shape_Area
1	58	201819	THB	RRG		30/06/2018		035-016-0110	Cherry Cheesecake		VF	THB	201819					7.85519828627	0	0	2468.87157915000	78551.98286270000
2	59	201819	THB	RRG	10/10/2017	30/06/2018	N	035-016-0128	Cherry Cola	Thinnings	VF	THB	201819					15.03093234430	0	0	3526.69975193000	150309.32344300000
3	35	201819	STS	RRG	12/12/2018	30/06/2018	N	035-016-0166	Clip go the Shears	Multi-Harvest	VF	STS	201819					33.37857755390	0	0	3013.10026538000	333785.77553900000
4	57	201819	FWF	RRG	26/02/2019	30/06/2018	N	035-016-0166	Clip go the Shears	Multi-Harvest	VF	FWF	201819					7.46449228878	0	0	1163.62717085000	74644.92288780000
5	60	201819	STS	RRG	6/06/2019	30/06/2018	N	035-016-0166	Clip go the Shears	Multi-Harvest	VF	STS	201819					25.68969663870	0	0	2736.45762006000	256896.96638700000
6	61	201819	FWF	RRG	26/02/2019	30/06/2018	N	035-016-0166	Clip go the Shears	Multi-Harvest	VF	FWF	201819					0.22438856312	0	0	212.53354885400	2243.88563118000
7	62	201819	STS	RRG	1/11/2018	30/06/2018	N	035-016-0189	Beaten by a Blow	Multi-Harvest	VF	STS	201819					73.58211861600	0	0	5306.35695556000	735821.18616000000
8	63	201819	STS	RRG	1/10/2018	30/06/2018	N	035-016-0189	Beaten by a Blow	Multi-Harvest	VF	STS	201819					73.58211861600	0	0	5306.35695556000	735821.18616000000
9	64	201819	THB	RRG	27/06/2018	30/06/2018	N	035-016-0189	Beaten by a Blow	Multi-Harvest	VF	THB	201819					73.58211861600	0	0	5306.35695556000	735821.18616000000
10	65	201819	THB	RRG	7/02/2018	30/06/2018	N	035-016-0200	Briers	Thinnings	VF	THB	201819					8.94876288032	0	0	1370.43449310000	89487.62880320000
11	66	201819	THB	RRG	7/02/2018	30/06/2018	N	035-016-0200	Briers	Thinnings	VF	THB	201819					26.30922899560	0	0	3201.60808517000	263092.28995600000
12	44	201819	THB	CMS	27/07/2018	30/06/2018	N	077-810-0101	Bylsmas	Thinnings	VF	THB	201819					3.34077774156	0	0	783.31799708400	33407.77741560000
13	25	201819	THA	RRG		30/06/2018		106-001-0108	Dry Swamp		VF	THA	201819					25.75655907980	0	0	3149.39532051000	257565.59079800000
14	26	201819	THA	RRG	1/06/2018	30/06/2018	N	106-003-0110	Cockatoo	Thinnings	VF	THA	201819					3.88501920041	0	0	1170.81090074000	38850.19200410000
15	28	201819	THB	RRG	5/12/2017	30/06/2018	N	106-004-0033	Fixtures and Fittings	Thinnings	VF	THB	201819					1.64666104949	0	0	694.86194034100	16466.61049490000
16	27	201819	THA	RRG	5/12/2018	30/06/2018	N	106-004-0122	Shillinglaws	Multi-Harvest	VF	THA	201819					73.33561210090	0	0	5332.19244537000	733356.12100900000
17	91	201819	THB	RRG	28/06/2018	30/06/2018	N	106-004-0122	Shillinglaws	Multi-Harvest	VF	THB	201819					2675.82086451000	0	0	209113.07858100000	209113.07858100000
18	92	201819	THB	RRG	28/06/2018	30/06/2018	N	106-004-0122	Shillinglaws	Multi-Harvest	VF	THB	201819					52.42367005500	0	0	4519.14171985000	524236.70055000000
19	51	201819	THB	RRG	1/09/2017	30/06/2018	N	106-007-0101	Barton Swamp	Thinnings	VF	THB	201819					112.16632369500	0	0	4275.99641993000	1121663.23695000000
20	23	201819	THA	RRG	24/08/2018	30/06/2018	N	113-001-0105	Grassy River	Multi-Harvest	VF	THA	201819					33.23407168740	0	0	5209.77350951000	332340.71687400000
21	50	201819	THB	RRG	17/09/2018	30/06/2018	N	113-001-0105	Grassy River	Multi-Harvest	VF	THB	201819					35.80443575970	0	0	6234.17760791000	358044.35759700000
22	24	201819	THB	RRG	17/08/2018	30/06/2018	N	113-002-0002	Mephisto	Thinnings	VF	THB	201819					18.25895387330	0	0	1918.30620262000	182589.53873300000
23	22	201819	THB	BIB	4/05/2018	30/06/2018	N	146-009-0104	Lamb Shrub	Thinnings	VF	THB	201819					26.37570992440	0	0	6737.17681263000	263757.09924400000
24	9	201819	THB	BIB	11/09/2018	30/06/2018	N	146-009-0105	Ewe Tree	Multi-Harvest	VF	THB	201819					9.66590907598	0	0	1886.38925249000	96659.09075980000
25	32	201819	THA	BIB	1/12/2017	30/06/2018	N	146-009-0105	Ewe Tree	Multi-Harvest	VF	THA	201819					14.12565305340	0	0	2265.83578401000	141256.53053400000
26	67	201819	THB	BIB	11/09/2018	30/06/2018	N	146-009-0105	Ewe Tree	Multi-Harvest	VF	THB	201819					1131.32900338000	0	0	1131.32900338000	21796.84491280000
27	30	201819	THA	BIB	18/06/2018	30/06/2018	N	146-010-0101	Hail a Taxi	Thinnings	VF	THA	201819					8.94737699570	0	0	3350.87633520000	89473.76995700000
28	68	201819	FWF	BIB	19/06/2019	30/06/2018	N	146-010-0102	Grab a Cab		VF	FWF	201819					5.68874822622	0	0	2020.71638587000	56887.48226220000
29	52	201819	FWF	BIB	8/04/2019	30/06/2018	N	146-014-0104	Lightning		VF	FWF	201819					25.18027162920	0	0	3498.53950015000	251802.71629200000
30	69	201819	THB	BIB	27/09/2017	30/06/2018	N	146-014-0105	Green Heaps	Multi-Harvest	VF	THB	201819					0.84214620182	0	0	507.00069844400	8421.46201817000
31	70	201819	THB	BIB	27/09/2017	30/06/2018	N	146-014-0105	Green Heaps	Multi-Harvest	VF	THB	201819					3.75257143142	0	0	1241.81787620000	37525.71431420000
32	8	201819	THB	BIB	26/06/2018	30/06/2018	N	147-000-0011	Brough	Thinnings	VF	THB	201819					26.512791101000	0	0	6608.30311101000	265127.91104200000
33	36	201819	THB	BIB	17/06/2019	30/06/2018	N	147-000-0011	Brough	Thinnings	VF	THB	201819					11.17478502910	0	0	4441.67791437000	111747.85029100000
34	29	201819	THB	BIB	23/03/2018	30/06/2018	N	147-000-0012	O'Neil	Thinnings	VF	THB	201819					3.38698638676	0	0	1999.52811677000	33869.86386760000
35	17	201819	THB	BIB	20/06/2019	30/06/2018	N	147-000-0013	Emmett	Thinnings	VF	THB	201819					0.82926125810	0	0	546.86981880600	8292.61258096000
36	21	201819	THB	BIB	18/06/2019	30/06/2018	N	147-000-0013	Emmett	Thinnings	VF	THB	201819					0.32813991102	0	0	298.96882383700	3281.39911022000
37	33	201819	THB	BIB	31/07/2018	30/06/2018	N	147-002-0104	Red Gate	Multi-Harvest	VF	THB	201819					12.06100232380	0	0	4849.34338770000	120610.02323800000
38	80	201819	THB	BIB	9/09/2019	30/06/2018	N	147-002-0104	Red Gate	Multi-Harvest	VF	THB	201819					0.36433268491	0	0	366.45085768500	3643.32684907000
39	81	201819	THB	BIB	9/09/2019	30/06/2018	N	147-002-0104	Red Gate	Multi-Harvest	VF	THB	201819					0.42804160658	0	0	573.35896869200	4280.41606580000
40	31	201819	THA	BIB	1/02/2018	30/06/2018	N	147-002-0107	Red Post	Multi-Harvest	VF	THA	201819					22.62452430230	0	0	5826.76508544000	226245.24302300000
41	54	201819	THB	BIB	25/01/2018	30/06/2018	N	147-002-0107	Red Post	Multi-Harvest	VF	THB	201819					20.15912994140	0	0	3625.41648296000	201591.29941400000
42	78	201819	THB	BIB	25/06/2018	30/06/2018	N	147-003-0103	Goldsborough Res Track	Multi-Harvest	VF	THB	201819					1.56881577579	0	0	935.58014605000	15688.15775790000
43	79	201819	THB	BIB	25/06/2018	30/06/2018	N	147-003-0103	Goldsborough Res Track	Multi-Harvest	VF	THB	201819					3.52315621335	0	0	1175.95486546000	35231.56213350000
44	40	201819	THB	BIB	23/11/2017	30/06/2018	N	147-003-0104	Gap Track	Multi-Harvest	VF	THB	201819					0.82972129847	0	0	750.45364038200	8297.21298467000
45	71	201819	THB	BIB	23/11/2017	30/06/2018	N	147-003-0104	Gap Track	Multi-Harvest	VF	THB	201819					0.27505608483	0	0	535.30148370700	2750.56084825000
46	72	201819	THB	BIB	20/05/2019	30/06/2018	N	147-011-0101	Tarnish	Thinnings	VF	THB	201819					0.70997691696	0	0	504.69436154100	7099.76916962000
47	2	201819	THB	BIB	20/07/2017	30/06/2018	N	147-011-0102	A Gulls Tarnation	Multi-Harvest	VF	THB	201819					7.31877080880	0	0	1924.98179792000	73187.70808800000
48	73	201819	THB	BIB	20/07/2017	30/06/2018	N	147-011-0102	A Gulls Tarnation	Multi-Harvest	VF	THB	201819					5.12556458947	0	0	1174.64310141000	51255.64589470000
49	74	201819	THB	BIB	20/07/2017	30/06/2018	N	147-011-0102	A Gulls Tarnation	Multi-Harvest	VF	THB	201819					1.45658095387	0	0	681.61550107000	14565.80953870000
50	75	201819	THB	BIB	26/09/2018	30/06/2018	N	147-011-0103	Naan	Thinnings	VF	THB	201819					42.08129692970	0	0	4062.78894671000	420812.96929700000
51	93	201819	THA	SUP	1/12/2017	30/06/2018	N	149-021-0103	Erskine Track		VF	THA	201819					1.12575197411	0	0	1049.70695571000	11257.51974110000
52	34	201819	THB	SUP	26/11/2018	30/06/2018	N	149-021-0109	Wright Brothers	Thinnings	VF	THB	201819					2.54789925723	0	0	1265.12597067000	25478.99257230000
53	82	201819	THB	BIB	28/06/2018	30/06/2018	N	151-003-0107	Set a Watchman	Thinnings	VF	THB	201819					44.29632243470	0	0	8704.85522974000	442963.22434700000
54	18	201819	THB	BIB	1/12/2017	30/06/2018	N	153-002-0107	Tuffy		VF	THB	201819					3.59660043608	0	0	873.25823931500	35966.00436080000
55	95	201819	FWF	BIB	27/05/2015	30/06/201																

87	96	201819	STS	MMS	9/05/2018	30/06/2018	N	234-501-0103	Mt McKenzie Morris ST	Thinnings	VF	STS	201819					0.24334942446	0	0	476.97083293400	2433.49424463000
88	39	201819	THB	FMS	22/09/2018	30/06/2018	N	239-000-0122	Cullen	Thinnings	VF	THB	201819					0.62751952350	0	0	376.11572290900	6275.19523495000
89	87	201819	THB	FMS	1/07/2018	30/06/2018	N	239-503-0106	Timberpail	Thinnings	VF	THB	201819					1.22235900814	0	0	1235.56872502000	12223.59008140000
90	88	201819	THB	FMS	1/07/2018	30/06/2018	N	254-000-0101	Murnanes Firewood	Thinnings	VF	THB	201819					2.53953770032	0	0	856.09366454100	25395.37700320000
91	89	201819	THB	FMS	1/07/2018	30/06/2018	N	254-000-0106	PL Sth Firewood	Thinnings	VF	THB	201819					1.15022443709	0	0	718.50642160300	11502.24437090000
92	38	201819	THB	FMS	3/10/2018	30/06/2018	N	254-000-0107	Clay Pipe	Thinnings	VF	THB	201819					32.87227720170	0	0	2414.03348705000	328722.77201700000
93	37	201819	THB	MMS	3/10/2018	30/06/2018	N	254-000-0126	Clogged Pipe	Thinnings	VF	THB	201819					17.70263625190	0	0	2361.50161933000	177026.36251900000
94	90	201819	THB	FMS	1/07/2018	30/06/2018	N	254-000-0132	Vocal Pipe	Thinnings	VF	THB	201819					0.42876129853	0	0	360.20548955700	4287.61298530000
95	77	201819	GSE	FMS	1/12/2017	30/06/2018	N	266-000-0009	Brick Hole		VF	GSE	201819					0.16202193038	0	0	167.14762731900	1620.21930378000
96	41	201819	THB	FMS	18/10/2017	30/06/2018	N	548-506-0104	Alaska	Thinnings	VF	THB	201819					30.52122879780	0	0	4397.66921043000	305212.28797800000
97	13	201819	GSE	FMS	1/09/2017	24/05/2019	N	740-503-0101	Freemans Track		VF	GSE	201819					4.28645743180	0	0	1756.42436655000	42864.57431800000
98	12	201819	GSE	FMS		30/06/2018		740-506-0101	Cold Man		VF	GSE	201819					1.51477466514	0	0	928.05288418900	15147.74665140000
99	11	201819	GSE	FMS		30/06/2018		743-501-0101	New Brew		VF	GSE	201819					1.83690417860	0	0	955.00376451600	18369.04178600000

Stand type	FMA	District	Coupe address	Roadline	Forest type	Silvi type	TRP Area	Harvested area	Admin Org
Even-aged	Dandenong	Powelltown	344-509-0009	No	MAS	RRH	11.83	4.28	VicForests
Even-aged	Dandenong	Powelltown	348-515-0004	No	MAS	CFE	26.98	18.35	VicForests
Even-aged	Dandenong	Powelltown	348-518-0003	No	MAS	CFE	23.67	13.85	VicForests
Even-aged	Dandenong	Powelltown	349-502-0013	No	MMS	STR	32.47	17.77	VicForests
Even-aged	Dandenong	Powelltown	349-507-0002	No	MAS	CFE	11.06	8.67	VicForests
Even-aged	Dandenong	Powelltown	349-509-0007	No	MAS	CFE	13.12	8.73	VicForests
Even-aged	Dandenong	Powelltown	349-514-0006	No	MMS	CFE	37.85	25.05	VicForests
Even-aged	Central Gippsland	Noojee	457-501-0001	No	AAS	CFE	50.01	29.41	VicForests
Even-aged	Central Gippsland	Noojee	457-501-0020	No	AAS	CFE	55.21	31.08	VicForests
Even-aged	Central Gippsland	Noojee	457-501-0022	No	AAS	CFE	46.82	24.39	VicForests
Even-aged	Central Gippsland	Noojee	458-508-0010	No	AAS	CFE	45.21	21.05	VicForests
Even-aged	Central Gippsland	Noojee	461-510-0011	No	MAS	CFE	55.89	24.18	VicForests
Even-aged	Central Gippsland	Noojee	461-510-0012	No	SHG	CFE	38.2	19.33	VicForests
Even-aged	Central Gippsland	Noojee	461-510-0014	No	SHG	CFE	35.65	16.68	VicForests
Even-aged	Central Gippsland	Noojee	462-502-0002	No	MMS	STR	25.82	17.43	VicForests
Even-aged	Central Gippsland	Noojee	462-502-0005	No	FMS	STR	48.26	35.45	VicForests
Even-aged	Central Gippsland	Noojee	462-506-0005	No	MAS	CFE	40.37	36.1	VicForests
Even-aged	Central Gippsland	Noojee	462-507-0007	No	FMS	STR	31.01	21.33	VicForests
Even-aged	Central Gippsland	Noojee	462-510-0003	No	FMS	STR	34.64	15.86	VicForests
Even-aged	Central Gippsland	Noojee	462-510-0006	No	MAS	CFE	21.03	12.66	VicForests
Even-aged	Central Gippsland	Noojee	462-512-0015	No	FMS	CFE	23.94	22.98	VicForests
Even-aged	Central Gippsland	Noojee	463-504-0009	No	MAS	CFE	33.75	17.98	VicForests
Even-aged	Central Gippsland	Noojee	463-505-0001	No	MAS	CFE	25.91	14.09	VicForests
Even-aged	Central Gippsland	Noojee	464-504-0003	No	FMS	STR	38.07	25.8	VicForests
Even-aged	Central Gippsland	Noojee	469-501-0006	No	FMS	STR	27.6	19.89	VicForests
Even-aged	Central Gippsland	Noojee	469-502-0003	No	FMS	STR	40.35	36.86	VicForests
Even-aged	Central Gippsland	Erica	483-502-0021	No	FMS	STR	16.77	10.67	VicForests
Even-aged	Central Gippsland	Erica	485-508-0012	No	FMS	STR	46.26	19.71	VicForests
Even-aged	Central Gippsland	Erica	486-501-0002	No	FMS	STR	57.21	18.91	VicForests
Even-aged	Central Gippsland	Erica	492-501-0002	No	SHG	RRH	28.12	9.77	VicForests
Even-aged	Central Gippsland	Erica	492-501-0003	No	AAS	RRH	45.34	12.33	VicForests
Even-aged	Central Gippsland	Erica	492-501-0004	No	AAS	RRH	49.72	8.83	VicForests
Even-aged	Central Gippsland	Heyfield	502-502-0001	No	AAS	RRH	54.85	23.93	VicForests

Even-aged	Central Gippsland	Heyfield	503-501-0001	No	MMS	RRH	18.25	5.29	VicForests
Even-aged	Central Gippsland	Heyfield	503-501-0002	No	AAS	RRH	14.93	8.19	VicForests
Even-aged	Central Gippsland	Heyfield	520-501-0002	No	AAS	RRH	55.89	9.54	VicForests
Even-aged	Central Gippsland	Heyfield	520-501-0003	No	AAS	CFE	57.44	23.16	VicForests
Even-aged	Central Gippsland	Heyfield	520-501-0006	No	AAS	CFE	55.52	1.74	VicForests
Even-aged	Central Gippsland	Heyfield	520-501-0007	No	AAS	CFE	40.2	6.04	VicForests
Even-aged	Central Gippsland	Heyfield	520-501-0008	No	AAS	RRH	35.61	5.47	VicForests
Even-aged	Central Gippsland	Heyfield	520-501-0011	No	AAS	RRH	27.43	3.23	VicForests
Even-aged	Central Gippsland	Heyfield	522-502-0014	No	AAS	RRH	46.84	14.43	VicForests
Even-aged	Dandenong	Powelltown	344-505-0004	No	MMS	CFE	29.15	20.63	VicForests
Even-aged	Dandenong	Powelltown	345-503-0005	No	MAS	RRH	30.45	8.92	VicForests
Even-aged	Dandenong	Powelltown	345-507-0003	No	MAS	CFE		17.07	Shared
Even-aged	Dandenong	Powelltown	347-501-0005	No	MAS	CFE	17.67	11.51	VicForests
Even-aged	Dandenong	Powelltown	347-515-0005	No	MAS	CFE	28.08	21.42	VicForests
Even-aged	Dandenong	Powelltown	348-510-0008	No	MAS	CFE	24.87	14.66	VicForests
Even-aged	Dandenong	Powelltown	348-517-0006	No	MAS	CFE	38.3	28	VicForests
Even-aged	Dandenong	Powelltown	348-517-0007	No	MAS	CFS	30.72	17.91	VicForests
Even-aged	Dandenong	Powelltown	348-537-0005	No	MAS	CFE	9.33	6.25	VicForests
Even-aged	Central Gippsland	Noojee	457-501-0010	No	AAS	CFE	24.21	21.13	VicForests
Even-aged	Central Gippsland	Noojee	458-501-0003	No	AAS	CFE	36.3	20.13	VicForests
Even-aged	Central Gippsland	Noojee	458-508-0008	No	AAS	CFE	30.22	27.21	VicForests
Even-aged	Central Gippsland	Noojee	459-502-0010	No	MAS	CFE	31.08	21.46	VicForests
Even-aged	Central Gippsland	Noojee	460-504-0005	No	FMS	STR	32.47	16.32	VicForests
Even-aged	Central Gippsland	Noojee	461-503-0003	No	FMS	STR	36.45	28.26	VicForests
Even-aged	Central Gippsland	Noojee	461-503-0004	No	FMS	STR	39.04	28.56	VicForests
Even-aged	Central Gippsland	Noojee	461-513-0007	No	SHG	CFE	32.19	13.48	VicForests
Even-aged	Central Gippsland	Noojee	461-513-0017	No	MAS	CFE	47.88	17.17	VicForests
Even-aged	Central Gippsland	Noojee	461-513-0018	No	FMS	CFE	48.59	12.38	VicForests
Even-aged	Central Gippsland	Noojee	462-503-0028	No	MAS	CFE	52.64	36.55	VicForests
Even-aged	Central Gippsland	Noojee	463-502-0007	No	FMS	STR	28.8	20.39	VicForests
Even-aged	Central Gippsland	Noojee	463-502-0008	No	FMS	CFE	29.18	22.84	VicForests
Even-aged	Central Gippsland	Noojee	463-504-0006	No	MAS	CFE	37.16	27.13	VicForests
Even-aged	Central Gippsland	Noojee	463-505-0010	No	MAS	CFE	42.52	25.61	VicForests
Even-aged	Central Gippsland	Erica	480-503-0016	No	MAS	CFE	17.47	8.95	VicForests

Even-aged	Central Gippsland	Erica	480-503-0017	No	MAS	CFE	32.13	7.21	Shared
Even-aged	Central Gippsland	Erica	480-504-0023	No	AAS	CFE	32.78	13.63	VicForests
Even-aged	Central Gippsland	Erica	494-502-0001	No	AAS	CFE	55.11	9.05	VicForests
Even-aged	Central Gippsland	Erica	494-502-0018	No	AAS	CFE	33.95	21.69	VicForests
Even-aged	Central Gippsland	Erica	494-502-0021	No	AAS	CFE	32.91	22.65	VicForests
Even-aged	Central	Alexandra	281-514-0006	No	MMS	STR	17.77	16.71	VicForests
Even-aged	Central	Alexandra	283-503-0018	No	MMS	STR	28.48	17.93	VicForests
Even-aged	Central	Alexandra	283-505-0022	No	FMS	STR	20.98	14.11	VicForests
Even-aged	Central	Alexandra	283-506-0001	No	MMS	STR	41.6	25.73	VicForests
Even-aged	Central	Alexandra	283-506-0002	No	MMS	STR	34.85	30.46	VicForests
Even-aged	Central	Alexandra	283-506-0003	No	MMS	STR	42.58	37.28	VicForests
Even-aged	Central	Alexandra	286-505-0019	No	AAS	CFE	23.49	13.42	VicForests
Even-aged	Central	Alexandra	286-511-0001	No	MAS	RRH	45.49	16.1	VicForests
Even-aged	Central	Alexandra	287-511-0003	No	AAS	RRH	38.3	25.52	VicForests
Even-aged	Central	Alexandra	287-511-0009	No	AAS	CFE	54.14	37.17	VicForests
Even-aged	Central	Alexandra	287-513-0004	No	SHG	RRH	20.4	9.65	VicForests
Even-aged	Central	Alexandra	287-514-0005	No	AAS	CFE	40.85	23.9	VicForests
Even-aged	Central	Alexandra	288-510-0009	No	AAS	CFE	41.29	21.09	VicForests
Even-aged	Central	Alexandra	288-516-0006	No	AAS	RRH	52.24	16.62	VicForests
Even-aged	Central	Toolangi	297-538-0001	No	MAS	CFE	38.33	32.44	VicForests
Even-aged	Central	Toolangi	297-547-0001	No	MAS	CFE	41.78	32.36	VicForests
Even-aged	Central	Toolangi	297-823-0003	No	MAS	CFE	40.09	31.87	VicForests
Even-aged	Central	Toolangi	299-511-0007	No	MAS	CFE	40.67	7.74	VicForests
Even-aged	Central	Toolangi	300-537-0003	No	MAS	CFE	45.12	20.88	VicForests
Even-aged	Central	Toolangi	300-537-0004	No	MAS	CFE	43.65	20.09	VicForests
Even-aged	Central	Toolangi	300-537-0005	No	MAS	CFE	27.71	20.44	VicForests
Even-aged	Central	Toolangi	301-535-0004	No	FMS	STR	29.62	27.74	VicForests
Even-aged	Central	Toolangi	301-552-0001	No	FMS	STR	55.04	20.15	VicForests
Even-aged	Central	Toolangi	306-503-0004	No	MAS	CFS	110.95	7.23	VicForests
Even-aged	Central	Marysville	309-507-0002	No	MAS	CFE	42.47	27.33	VicForests
Even-aged	Central	Marysville	317-506-0003	No	AAS	CFE	49.2	16.09	VicForests
Even-aged	Central	Marysville	317-507-0002	No	MAS	RRH	25.46	9.15	VicForests
Even-aged	Central	Marysville	318-512-0005	No	AAS	CFE	24.11	14.33	VicForests
Even-aged	Central	Marysville	318-512-0007	No	AAS	RRH	38.96	22.53	VicForests

Even-aged	Central	Marysville	320-501-0017	No	AAS	CFE	27.68	22.8	VicForests
Even-aged	Central	Marysville	320-503-0001	No	AAS	CFE	32.07	24.29	VicForests
Even-aged	Central	Marysville	320-503-0010	No	AAS	CFE	44.07	28.57	VicForests
Uneven-aged	Benalla-Mansfield	Benalla/Mansfield	394-501-0002	No	MMS	STS	40.91	7.61	VicForests
Uneven-aged	Benalla-Mansfield	Benalla/Mansfield	394-501-0004	No	MMS	STS	36.86	25.06	VicForests
Even-aged	Benalla-Mansfield	Benalla/Mansfield	394-501-0005	No	MMS	STR	22.76	15.52	VicForests
Uneven-aged	Benalla-Mansfield	Benalla/Mansfield	395-502-0003	No	MMS	STS	48.23	42.07	VicForests
Uneven-aged	Benalla-Mansfield	Benalla/Mansfield	412-504-0001	No	MMS	STS	32.75	23.79	VicForests
Even-aged	North East	Upper Murray	676-528-0005	No	AAS	CFE	27.83	16.92	VicForests
Even-aged	North East	Upper Murray	676-529-0003	No	MMS	CFE	26.76	9.59	VicForests
Even-aged	North East	Upper Murray	676-530-0013	No	AAS	CFE	16.22	11.27	VicForests
Even-aged	North East	Upper Murray	683-508-0005	No	AAS	CFE	39.17	33	VicForests
Even-aged	North East	Upper Murray	683-516-0003	No	AAS	CFE	50.71	34.35	VicForests
Even-aged	North East	Upper Murray	683-517-0005	No	AAS	CFE	12.39	8.29	VicForests
Even-aged	North East	Upper Murray	686-506-0006	No	AAS	CFE	44.07	23.09	VicForests
Even-aged	North East	Upper Murray	687-512-0006	No	AAS	CFE	18.19	15.06	VicForests
Even-aged	North East	Upper Murray	687-512-0008	No	AAS	CFE	40.9	25.77	VicForests
Even-aged	Tambo	Bairnsdale	727-507-0002	No	MMS	STR	32.2	29.19	VicForests
[No survey]	Tambo	Bairnsdale	729-501-0002	No	MAS	UNL	21.35		VicForests
Even-aged	Tambo	Bairnsdale	731-505-0002	No	FMS	STR	52.93	21.79	VicForests
Even-aged	Tambo	Bairnsdale	735-510-0019	No	FMS	STR	16.6	15.23	VicForests
Even-aged	Tambo	Bairnsdale	741-509-0002	No	FMS	STR	42.18	32.12	VicForests
Even-aged	Tambo	Bairnsdale	742-507-0004	No	FMS	STR	35.84	20.87	VicForests
Even-aged	Tambo	Bairnsdale	742-507-0005	No	FMS	STR	42.57	17.16	VicForests
Even-aged	Tambo	Bairnsdale	743-502-0003	No	CMS	FWF	26.37	23.06	VicForests
Even-aged	Tambo	Bairnsdale	743-504-0003	No	CMS	STR	20.99	11.61	VicForests
Even-aged	Tambo	Bairnsdale	743-504-0004	No	CMS	STR	23	19.8	VicForests
Even-aged	Tambo	Swifts Creek	760-504-0001	No	AAS	CFE	37.41	14.72	VicForests
Even-aged	Tambo	Swifts Creek	760-506-0002	No	AAS	CFE	36.33	22.96	VicForests
Even-aged	Tambo	Swifts Creek	760-506-0012	No	AAS	CFE	19.37	12.21	VicForests
Even-aged	Tambo	Swifts Creek	765-523-0003	No	AAS	CFE	29.09	10.75	VicForests
Even-aged	Tambo	Swifts Creek	771-505-0010	No	AAS	CFE	33.87	20.77	VicForests
Even-aged	Tambo	Swifts Creek	771-507-0002	No	AAS	CFE	34.75	33.66	VicForests
Even-aged	Tambo	Swifts Creek	771-507-0019	No	AAS	CFE	35.94	31.11	VicForests



Even-aged	Tambo	Swifts Creek	771-507-0027	No	AAS	CFE	34.13	30.23	VicForests
[No survey]	East Gippsland	Nowa Nowa	801-507-0018	Yes	CMS	RDC	11.97	1.55	VicForests
Even-aged	East Gippsland	Nowa Nowa	804-502-0022	No	CMS	STR	41.71	35.53	VicForests
Even-aged	East Gippsland	Nowa Nowa	804-502-0023	No	CMS	STR	42.36	37.56	VicForests
Even-aged	East Gippsland	Nowa Nowa	814-501-0003	No	MMS	STR	34.92	21.53	VicForests
Even-aged	East Gippsland	Nowa Nowa	814-502-0009	No	MMS	STR	14.29	9.95	VicForests
Even-aged	East Gippsland	Orbost	823-509-0011	No	CMS	STR	32.13	18.12	VicForests
Even-aged	East Gippsland	Orbost	827-501-0022	No	FMS	STR	42.8	28.31	VicForests
Even-aged	East Gippsland	Orbost	827-501-0024	No	FMS	STR	40.89	29.55	VicForests
Even-aged	East Gippsland	Orbost	827-501-0025	No	FMS	STR	43.75	31.45	VicForests
Even-aged	East Gippsland	Orbost	827-501-0026	No	FMS	STR	45.71	26.66	VicForests
Even-aged	East Gippsland	Orbost	827-501-0027	No	FMS	STR	35.66	21.99	VicForests
Even-aged	East Gippsland	Orbost	827-503-0005	No	FMS	STR	41.05	18.4	VicForests
Even-aged	East Gippsland	Orbost	827-505-0005	No	FMS	STR	29.43	20.31	VicForests
Even-aged	East Gippsland	Orbost	827-512-0010	No	CMS	STR	40.13	35.85	VicForests
Even-aged	East Gippsland	Orbost	827-512-0012	No	CMS	STR	34.42	29.77	VicForests
Even-aged	East Gippsland	Orbost	830-502-0010	No	FMS	STR	15.74	6.54	VicForests
[No survey]	East Gippsland	Orbost	830-507-0019	Yes	FMS	RDI	6.54		VicForests
Even-aged	East Gippsland	Orbost	830-507-0020	No	FMS	STR	44.6	3.56	VicForests
Even-aged	East Gippsland	Orbost	830-507-0023	No	FMS	STR	27.99	9.94	VicForests
[No survey]	East Gippsland	Orbost	830-510-0010	Yes	FMS	RDC	5.72		VicForests
[No survey]	East Gippsland	Orbost	830-510-0011	Yes	FMS	RDC	13.69		VicForests
Thinning	East Gippsland	Orbost	831-506-0010	No	FMS	THB	60.18		Shared
Even-aged	East Gippsland	Orbost	832-502-0017	No	FMS	STR	46.43	5.01	VicForests
Even-aged	East Gippsland	Orbost	835-512-0003	No	CMS	STR	44.69	27.4	VicForests
Even-aged	East Gippsland	Orbost	835-512-0008	No	CMS	STR	34.81	19.48	VicForests
Even-aged	East Gippsland	Orbost	836-507-0007	No	FMS	CFS	36.58	1.06	VicForests
Even-aged	East Gippsland	Orbost	836-524-0021	No	FMS	STR	35.88	11.81	VicForests
Even-aged	East Gippsland	Orbost	836-524-0024	No	FMS	STR	26.02	16.51	VicForests
Thinning	East Gippsland	Orbost	837-512-0008	No	AAS	THB	47.03	32.24	VicForests
Even-aged	East Gippsland	Orbost	842-510-0013	No	FMS	STR	24.82	17.64	VicForests
Even-aged	East Gippsland	Orbost	842-513-0052	No	FMS	STR	44.19	23.83	VicForests
Even-aged	East Gippsland	Orbost	842-518-0035	No	FMS	STR	47.17	3.57	VicForests
Even-aged	East Gippsland	Cann River	853-506-0019	No	CMS	STR	24.6	5.06	VicForests

Even-aged	East Gippsland	Cann River	863-507-0004	No	CMS	STR	14.63	5.12	VicForests
Even-aged	East Gippsland	Cann River	863-507-0008	No	CMS	STR	33.77	16.51	VicForests
Even-aged	East Gippsland	Cann River	863-507-0009	No	CMS	STR	40.41	24.85	VicForests
Even-aged	East Gippsland	Cann River	866-511-0010	No	CMS	STR	28.81	22.16	VicForests
Even-aged	East Gippsland	Cann River	867-502-0007	No	FMS	STR	44.82	9.13	VicForests
Even-aged	East Gippsland	Cann River	867-507-0011	No	CMS	STR	36.94	21.02	VicForests
Even-aged	East Gippsland	Cann River	868-507-0015	No	FMS	STR	17.88	11.81	VicForests
Thinning	East Gippsland	Cann River	874-511-0002	No	FMS	THA	134.65	90.82	Shared
[No survey]	East Gippsland	Cann River	875-508-0004	Yes	FMS	RDC	43.22		VicForests
Even-aged	East Gippsland	Cann River	876-516-0008	No	CMS	FWF	52.08	36.76	VicForests
Even-aged	East Gippsland	Cann River	878-514-0004	No	FMS	FWF	20.95	18.83	VicForests
Even-aged	East Gippsland	Cann River	886-505-0010	No	FMS	STR	44.33	27.35	VicForests
Even-aged	East Gippsland	Cann River	888-510-0010	No	FMS	STR	47.95	22.61	VicForests
Even-aged	East Gippsland	Bendoc	891-513-0010	No	MMS	STR	18.22	0.88	VicForests
Even-aged	East Gippsland	Bendoc	895-505-0008	No	MMS	STR	13.71	11.88	VicForests
Even-aged	East Gippsland	Bendoc	895-505-0014	No	MMS	STR	24.41	19.28	VicForests
Even-aged	East Gippsland	Bendoc	895-509-0004	No	MMS	STR	18.94	18.74	VicForests
Even-aged	East Gippsland	Bendoc	895-511-0007	No	MMS	STR	28.57	27.35	VicForests

## Attachment 3 – Undefined Forest Stand Harvest Area summary

The table below shows all 2018/19 harvested areas that are not allocated as Ash or Mixed species in the VicForests\_Allocation\_Apr2019 spatial layer. These areas were harvested prior to the gazettal of the AO 2019 amendment. These areas have been assigned to either Mixed Species or Ash for the purposes of reporting harvested area and compliance with five-year harvest limits.

Coupe Address	Silviculture System	Date Commenced	Date Completed	Undefined Forest Stand Harvest Area (Hectares)	Assigned Forest Stand Type	Issue	Description
284-002-0008	STR	13/08/2018	17/12/2018	0.28	Mixed Species	Incorrectly mapped feature	SFRI - Non-Eucalpt, FMZ - Pltn
317-508-0009	RRH	14/03/2018	10/01/2019	0.12	Ash	SPZ	Reported to DELWP
395-505-0003	STS	22/01/2019	30/06/2018	0.87	Mixed Species	Incorrectly mapped feature	SFRI - Non-Eucalpt
397-502-0003	STS	3/09/2018	27/11/2018	1.53	Mixed Species	Incorrectly mapped feature	SFRI - Non-Eucalpt
397-502-0006	STS	1/10/2018	27/11/2018	0.26	Mixed Species	Incorrectly mapped feature	SFRI - Non-Eucalpt
457-501-0017	THB	14/03/2019	13/05/2019	0.10	Ash	Incorrectly mapped feature	SFRI - Non-Eucalpt
461-503-0001	STR	13/09/2018	21/12/2018	0.15	Mixed Species	Incorrectly mapped feature	SFRI - Non-Eucalpt
483-501-0016	CFE	26/10/2018	21/12/2018	0.55	Mixed Species	Incorrectly mapped feature	SFRI - Non-Eucalpt
686-506-0001	CFE	24/01/2019	17/05/2019	0.70	Ash	Incorrectly mapped feature	SFRI - Non-Eucalpt
686-506-0004	CFE	10/12/2018	17/05/2019	0.19	Ash	Incorrectly mapped feature	SFRI - Non-Eucalpt
726-501-0006	STR	4/01/2019	30/06/2018	0.35	Ash	Incorrectly mapped feature	SFRI - Non-Eucalpt
726-503-0003	STS	16/10/2018	30/06/2018	1.51	Ash	Incorrectly mapped feature	SFRI - Non-Eucalpt
Notes:							
Slivers <0.1 ha have not been included in this summary. This is consistent with previous analysis undertaken.							
Other spatial allowances that have been used with previous analysis have not been applied in this instance. These allowances included a 10 meters allowance to the harvest boundary to allow for the accuracy of current field measurement equipment. plus 50 meters to the Allocation Order 2013 boundary to provide for the on-ground provision (Section 7.1.1.2 The Management standards and procedures for timber harvesting operations in Victoria's State forests 2014 incorporated in the Code of practice for timber production 2014) that allows a coupe boundary to be moved up to 50 meters to align with the geographic feature it is intended to represent e.g. a waterway.							
Errors are present in the VicForests_Allocation_Apr2019 spatial layer. These relate to areas available harvesting but not allocated as Ash or Mixed Species in the spatial layer. Such areas include areas mapped as non-eucalypt in the Statewide Forest Resource Inventory spatial layer, errors in the FMZ layer and other incorrectly mapped features.							



# Annual Allocation Order Compliance Report 2019/20

Submitted to the Secretary of the  
Department of Jobs, Precincts and Regions

30 September 2020



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## Introduction and Summary

The Annual Allocation Compliance Report has been developed by VicForests to provide the Secretary of the Department of Jobs, Precincts and Regions (DJPR) information and data on VicForests Timber Harvesting Operations in State forest from the 2019/20 year. This report also demonstrates how VicForests has met its obligations under section 15 of the *Sustainable Forests (Timber) Act 2004*, whereby VicForests must carry out its functions in accordance with the Allocation Order.

The Allocation Order (AO) is made by the Minister for Agriculture under Part 3 of the *Sustainable Forests (Timber) Act 2004*.

The objectives of an AO are to:

- Allocate specified timber resources in State forests to VicForests for the purposes of harvesting and selling, or harvesting or selling timber resources;
- Permit VicForests to undertake associated management activities in relation to that allocated timber and in the areas to which the order applies (e.g. construction of access roads, regeneration activities, thinning and monitoring); and
- Specify relevant conditions and limitations (e.g. minimum planning and reporting requirements, and the maximum five-year harvest area limits)

The current AO is the Allocation (Amendment) Order 2019 (AO 2019), published in the Victorian Government Gazette No S 153 on 24 April 2019, which updated provisions set out in the Allocation Order 2013 and the subsequent 2014 amendment.

This report specifically addresses Section 10(7) of the Allocation (Amendment) Order 2019, whereby *VicForests must submit an annual report to the Secretary to DJPR by 30 September each year describing the area of timber harvested and regeneration results for the preceding financial year for Ash and Mixed species forest stands as described in Table 1 of the AO. The report must include data demonstrating how VicForests is complying with the five year harvest area limit. The reporting period will be 1 July to 30 June annually.*

This report is the annual process to report the area of harvest, regeneration results and to demonstrate compliance with the 5-year harvest area limits imposed by the Allocation (Amendment) Order 2019. The 2019/20 report represents the second year in the second five-year period set out in the 2019 Allocation Order. In addition to these requirements, VicForests has included an annual summary of other authorised associated management activities undertaken in 2019/20.

In 2019/20, VicForests undertook harvesting operations in 179 Timber Release Plan (TRP) coupes (excludes roadline coupes and stand tending coupes), attributing 667 hectares of net harvested area to the Ash forest type and 1,434 hectares of harvested area to Mixed Species forest type from their respective AO period 5-year harvest area limits. A total of 253 hectares comprised solely of stand tending activities such as thinning or single-tree selection silviculture.

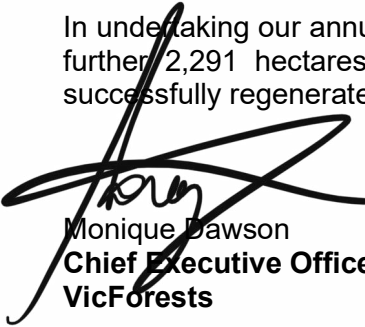
This is the second year of the current 5-year period and VicForests has harvested 11% of the Ash Forest 5-year harvest area limit and 5% of the Mixed Species Forest 5-year harvest area limit. These figures are well below the maximum 5-year harvesting limits and demonstrate VicForests' compliance with these limits.



VicForests' Annual Allocation Order Compliance Report  
30 September 2020



In undertaking our annual regeneration responsibilities, VicForests proposed for finalisation a further 2,291 hectares of net harvest area, comprising 125 coupes assessed as being successfully regenerated or otherwise stocked.



Monique Dawson  
**Chief Executive Officer,**  
**VicForests**



## Objectives

The objectives of the VicForests Annual Harvesting and Regeneration Report are to provide information on:

1. VicForests' area harvested in 2019/20;
2. VicForests' compliance with the Allocation Order 5-year harvest area limits;
3. VicForests' regeneration results for 2019/20;

## 1. VicForests Harvested Area 2019/20

### 1.1 Operations authorised by the AO

The majority of VicForests Timber Harvesting Operations in the east of Victoria are authorised by the AO.

The 2019 AO amendment was gazetted on 24 April 2019. It defined the Allocated area to be the area of land identified by the spatial data layer certified by the Secretary to DJPR on 15 April 2019 known as 'VicForests\_ Allocation\_Apr2019' and stored in the Victorian Spatial Data Library.

All planned harvesting and reported 2019/20 season harvested area has been assessed against the VicForests\_Allocation\_Apr2019 spatial layer. This spatial layer contains errors and omissions. In order to address these errors, following the gazettal of the 2019 AO amendment, DELWP issued a Forest Produce Licence that authorised timber harvesting operations within areas of State forest available for timber harvesting but excluded from the AO due to errors or omissions in the Allocation Area spatial layer or a change to Forest Management Zones. A special condition of the licence was that any area of State forest harvested under this licence, when combined with the area of State forest harvested under the AO 2019, must not exceed the five-year harvest limit specified in Table 1 of the AO 2019. The area harvested in 2019/20 using this FPL is listed in Attachment 2 and has been included in the harvested area to assess compliance with the 5-year harvest area limits.

### 1.2 Harvested Area authorised by the AO

VicForests has collated the harvested area by silviculture systems that lead to a requirement for the harvested area to be regenerated.

**Table 11** outlines the area of timber harvesting undertaken by VicForests during the 2019/20 year and by forest stand type.

**Table 1: 2019/20 Net Harvest Area (ha) by forest stand type**

Forest Stand Type	Ash	Mixed Species	TOTALS
<b>Total Harvest Area</b>	<b>667</b>	<b>1434</b>	<b>2101</b>
<b>Notes:</b>			
<i>This data is sourced from VicForests 2019-20 Harvesting History Shapefile</i>			
<i>The forest stand type has been determined using the spatial file "VicForests_Allocation_Apr2019", as defined in the AO 2019 Amendment.</i>			



### 1.3 Other Associated Management Activities

This section outlines associated management activities undertaken by VicForests during the 2019/20 year as authorised within Clause 8 of the AO 2019, which includes activities such as seed collection and stand-tending.

#### 1.3.1 Stand Tending

Forest stand tending incorporates activity undertaken to manage or manipulate a forest stand while continuing to let the stand grow. Table 2 shows the net areas of stand tending activity undertaken by VicForests during the 2019/20 year.

**Table 2: The area (ha) of stand tending activities by forest stand type undertaken in 2019/20.**

Forest Stand Type	Thinning from Above	Thinning from Below	Single-Tree Selection	Single-Tree Selection (Recovery)	Firewood, Fallen	TOTALS
Ash	-	-	-	1	-	1
Mixed Species	8	172	64		8	252
<b>TOTALS</b>	<b>8</b>	<b>172</b>	<b>64</b>	<b>1</b>	<b>8</b>	<b>253</b>
<b>Notes:</b>						
The data in this table is sourced from VicForests' 2019-20 Harvesting History Shapefile.						
The forest stand type has been determined using the spatial file "VicForests_Allocation_Apr2019", as defined in the AO 2019 Amendment.						

#### 1.3.2 Seed Collection

Seed collection is undertaken to maintain adequate seed-stock to facilitate site establishment of harvested areas.

Table 3 shows the amount of seed collected by VicForests during the 2019/20 year by forest type and method of collection.

**Table 3: Seed collection by species group completed by VicForests during 2019/20.**

Forest Stand Type	Seed Collection Amount (Kilograms)		
	Ground Collection	Climbing	Total
Ash Species	80.07	2293.24	2373.31
Mixed Species	83.92	137.09	221.01
<b>TOTAL</b>	<b>163.99</b>	<b>2430.33</b>	<b>2594.32</b>
<b>Notes:</b>			
The data in this table is sourced from VicForests' Seed-bank database.			
All figures are in kilograms.			
Ash species includes Alpine Ash, Mountain Ash and Shining Gum. All other species are considered as mixed species.			

## 2. AO five-year harvest area limits

The AO five-year Harvest Area limits have been assessed against the net harvested areas from the 2019-20 season. This has been done using the HH\_201920 spatial layer. This is the area harvested using each relevant silviculture system broken down into Ash and Mixed Species forest stand types as designated by the VicForests\_Allocation\_Apr2019 spatial layer.

Clause 8 of the AO 2019 permits VicForests to carry out associated management activities in relation to allocated timber. Any area in which timber is harvested, incidental to any associated management activity, is not included in the relevant five-year harvest limit. These



associated management activities include tending of forest stands (e.g. thinning, road construction and seed collection). These activities are reported in section 1.3.

The Harvested Area is the area measurement that is used for comparison with the five-year harvest area limits listed in the AO. The current five-year harvest area limit period is from 1 July 2018 to 30 June 2023.

All areas greater than 0.1ha that were harvested in 2019/20, and are not defined by the *VicForests\_Allocation\_Apr2019* spatial layer, have been reported in the attached 2019/20 Undefined Areas Table. These areas have been designated to either Ash or Mixed Species based on the forest type present. A total of 4.5 hectares was harvested under FPL0000012 in 2019/20.

Table 4 indicates that, at the end of the 2019/20 financial year, a total of 664 hectares had been attributed to the Ash Forest 5-year harvest area limit for the current AO period and 1,433 hectares was attributed to the Mixed Species 5-year harvest area limit for the current AO period. This is the second year of the five-year harvest area limit from 1 July 2018 to 30 June 2023. Table 5 demonstrates VicForests' compliance with the 5-year harvest area limit for the current AO period.

**Table 4: VicForests compliance with the five-year harvest area limits by forest stand type**

Forest Stand Type	AO 5-Year harvest area limit for Period 1 July 2018 to 30 June 2023 (ha)	2018/19 Harvest Area (ha)	2019/20 Harvest Area (ha)	Cumulative AO Area for Period 1 July 2018 to 30 June 2023 (ha)	Percentage of AO 5-Year Harvest Area Limit Utilised (%)
Ash	13,700	809	667	1476	11%
Mixed Species	70,500	1,752	1,434	3186	5%

**Notes:**

*The area of harvest operations to be included in the comparison with the five-year area limits in the AO are; clear-fell, clear-fell salvage, seed tree (includes retained over-wood), regrowth retention harvesting, variable retention 1, variable retention 2 and uneven-aged silviculture methods.*

*Thinning type harvesting is considered tending operations and are not included in this comparison with the AO five-year harvest limits as specified in Clause 7(9) of the Allocation (Amendment) Order 2019.*

*The forest stand type has been determined using the spatial file "VicForests\_Allocation\_Apr2019", as defined in the AO 2019 Amendment.*

### 3. Annual Regeneration Results

Successful regeneration of a coupe is termed 'coupe finalisation' and can only be demonstrated when the entire net harvested area of a coupe is adequately stocked with either seedlings, coppice or basal area (retained stems).

Additional area is successfully regenerated each year, but coupes are only reported when the entire net harvested area has been regenerated.

The annual regeneration program consists of preparing sites where timber harvesting has occurred (site preparation), the establishment of eucalypt seedlings across the net harvested areas (site establishment) and a series of seedling stocking surveys to measure regeneration success.



Coupes that have been surveyed and demonstrated to have adequate stocking of the eucalypt species that were present prior to timber harvesting are then nominated for coupe finalisation. Coupes nominated during 2019/20 are shown in Table 5.

### 3.1 Coupes Nominated for Coupe Finalisation

Table 5: VicForests' coupes nominated for finalisation during 2019/20.

Coupe Types	Even-Aged Coupes	Thinning Coupes	Uneven-Aged	Roadline Coupes	TOTALS
Number of Coupes Finalised	123	1	1	-	125
Gross Coupe Area Finalised (ha)	4,319	118	50	-	4,487
Net Area Harvested and Finalised (ha)	2,245	45	1	-	2,291

Additional information on coupes which VicForests has nominated for finalisation in 2019/20 has been supplied in attachment 1 - *VicForests 2019-20 Coupe Finalisation list*.

## 4. Attachments

The following attachments also form part of VicForests' Annual Allocation Order Compliance Report 2019/20 (as previously indicated):

1. VicForests' 2019-20 Coupe Finalisation List
2. Undefined stands harvest area table 2019-20

Stand type	FMA	District	Coupe address	Roadline	Forest type	Silvi type	TRP Area	Harvested area	Admin Org
Even-aged	Central	Alexandra	283-503-0016	No	FMS	STR	37.97	31.21	VicForests
Even-aged	Central	Alexandra	286-505-0013	No	MAS	CFS	26.71	21.37	VicForests
Even-aged	Central	Alexandra	287-508-0008	No	AAS	RRH	31.88	16.64	VicForests
Even-aged	Central	Alexandra	287-509-0003	No	MAS	RRH	34.52	21.28	VicForests
Even-aged	Central	Alexandra	287-513-0005	No	SHG	RRH	53.82	22.82	VicForests
Even-aged	Central	Toolangi	297-847-0010	No	MAS	CFE	31.69	29.04	VicForests
Even-aged	Central	Toolangi	298-515-0005	No	MAS	RRH	42.38	24.54	VicForests
Even-aged	Central	Toolangi	298-515-0006	No	MAS	RRH	30.63	19.11	VicForests
Even-aged	Central	Toolangi	300-503-0002	No	MAS	CFE	14.95	8.89	VicForests
Even-aged	Central	Toolangi	300-503-0003	No	MAS	CFE	31.77	21.89	VicForests
Even-aged	Central	Toolangi	300-503-0004	No	MAS	CFE	27.19	15.57	VicForests
Even-aged	Central	Toolangi	300-504-0003	No	MAS	RRH	25.67	1.29	VicForests
Even-aged	Central	Toolangi	300-517-0002	No	MAS	CFE	32.97	24.51	VicForests
Even-aged	Central	Toolangi	301-521-0001	No	FMS	STR	37.81	29.82	VicForests
Even-aged	Central	Toolangi	301-547-0001	No	FMS	STR	43.92	32.95	VicForests
Even-aged	Central	Toolangi	301-550-0002	No	FMS	STR	25.82	13.04	VicForests
Even-aged	Central	Toolangi	301-557-0001	No	FMS	STR	47.19	34.79	VicForests
Even-aged	Central	Toolangi	301-560-0001	No	MMS	CFS	42.58	29.38	VicForests
Even-aged	Central	Toolangi	301-560-0002	No	FMS	CFS	41.93	34.11	VicForests
Even-aged	Central	Toolangi	307-004-0002	No	MAS	CFE	6.6	2.18	VicForests
Even-aged	Central	Toolangi	307-505-0011	No	FMS	RRH	33.86	15.76	VicForests
Even-aged	Central	Marysville	309-003-0002	No	FMS	STR	33.07	27.15	VicForests
Even-aged	Central	Marysville	309-511-0010	No	MAS	RRH	13.08	8.18	VicForests
Even-aged	Central	Marysville	309-512-0008	No	SHG	CFE	44.52	11.62	VicForests
Even-aged	Central	Marysville	312-510-0007	No	MMS	STR	34.48	18.64	VicForests
Even-aged	Central	Marysville	312-510-0009	No	MMS	STR	34.64	11.61	VicForests
Uneven-aged	Central	Marysville	312-511-0002	No	MAS	RRH	49.91	0.56	VicForests
Even-aged	Central	Marysville	312-512-0003	No	MAS	CFE	46.08	22.25	VicForests
Even-aged	Central	Marysville	317-508-0006	No	AAS	CFE	39.71	13.25	VicForests
Even-aged	Central	Marysville	317-508-0008	No	AAS	RRH	29.76	15.3	VicForests
Even-aged	Central	Marysville	318-512-0008	No	AAS	RRH	45.95	20.2	VicForests
Even-aged	Central	Marysville	318-512-0016	No	AAS	RRH	24.84	13.57	VicForests
Even-aged	Central	Marysville	320-501-0016	No	AAS	CFE	38.45	3.57	VicForests
Even-aged	Central	Marysville	320-501-0019	No	AAS	RRH	44.58	19.08	VicForests
Even-aged	Central	Marysville	320-501-0020	No	MAS	CFE	30.77	4.53	VicForests
Even-aged	Central	Marysville	320-501-0021	No	AAS	CFE	47.06	3.04	VicForests
Even-aged	Central	Marysville	320-501-0026	No	AAS	RRH	50.67	9.82	VicForests
Even-aged	Central	Marysville	320-502-0021	No	AAS	CFE	43.49	18.09	VicForests
Even-aged	Central	Marysville	320-502-0022	No	AAS	CFE	38.07	12.21	VicForests
Even-aged	Central	Marysville	320-502-0026	No	MAS	CFE	30.79	13.82	VicForests
Even-aged	Central	Marysville	320-502-0028	No	AAS	CFE	35.41	5.52	VicForests
Even-aged	Central	Marysville	320-502-0044	No	AAS	CFE	47.63	12.32	VicForests
Even-aged	Central	Marysville	320-503-0003	No	AAS	CFE	32.85	8.41	VicForests
Even-aged	Central	Marysville	320-503-0026	No	AAS	RRH	44.58	17.15	VicForests
Even-aged	Central	Marysville	320-503-0027	No	AAS	RRH	15.14	3.96	VicForests
Even-aged	Dandenong	Powelltown	347-515-0012	No	FMS	CFE	24.59	22.08	VicForests
Even-aged	Dandenong	Powelltown	347-521-0006	No	MMS	CFE	38.37	21.03	VicForests
Even-aged	Dandenong	Powelltown	348-517-0009	No	MAS	CFE	22.76	15.47	VicForests
Even-aged	Benalla-Mansfield	Benalla/Mansfield	384-505-0009	No	AAS	CFE	18.58	9.69	VicForests
Even-aged	Benalla-Mansfield	Benalla/Mansfield	395-502-0004	No	MMS	STR	13.27	12.42	VicForests



Even-aged	Benalla-Mansfield	Benalla/Mansfield	395-502-0006	No	FMS	STR	91.76	78.17 VicForests
Even-aged	Central Gippsland	Noojee	458-508-0011	No	AAS	CFE	55.08	28.03 VicForests
Even-aged	Central Gippsland	Noojee	458-508-0014	No	AAS	CFE	52.66	11.63 VicForests
Even-aged	Central Gippsland	Noojee	458-511-0008	No	AMS	CFE	51.91	20.63 VicForests
Even-aged	Central Gippsland	Noojee	458-511-0009	No	MAS	CFE	51.35	15.54 VicForests
Even-aged	Central Gippsland	Noojee	460-512-0003	No	MAS	CFE	44.22	13.36 VicForests
Even-aged	Central Gippsland	Noojee	461-502-0002	No	FMS	STR	52.86	31.58 VicForests
Even-aged	Central Gippsland	Noojee	461-502-0005	No	FMS	STR	38.52	25.43 VicForests
Even-aged	Central Gippsland	Noojee	461-502-0006	No	FMS	STR	42.05	30.26 VicForests
Even-aged	Central Gippsland	Noojee	461-502-0012	No	FMS	STR	39.65	28.95 VicForests
Even-aged	Central Gippsland	Noojee	461-503-0002	No	FMS	STR	34.03	32.15 VicForests
Even-aged	Central Gippsland	Noojee	462-502-0001	No	FMS	STR	47.38	37.05 VicForests
Even-aged	Central Gippsland	Noojee	462-502-0003	No	FMS	STR	44.21	35.29 VicForests
Even-aged	Central Gippsland	Noojee	462-504-0004	No	MAS	CFE	33.8	13.12 VicForests
Even-aged	Central Gippsland	Noojee	462-505-0028	No	MMS	STR	18.47	11.96 VicForests
Even-aged	Central Gippsland	Noojee	462-506-0015	No	MAS	CFE	25.45	17.49 VicForests
Even-aged	Central Gippsland	Noojee	462-506-0016	No	MAS	CFE	30.63	11.46 VicForests
Even-aged	Central Gippsland	Noojee	462-509-0002	No	MAS	STR	38.18	26.74 VicForests
Even-aged	Central Gippsland	Noojee	462-509-0007	No	FMS	STR	48.56	30.47 VicForests
Even-aged	Central Gippsland	Noojee	462-511-0002	No	FMS	STR	28.14	17.6 VicForests
Even-aged	Central Gippsland	Noojee	463-505-0008	No	MAS	CFE	30.48	15.47 VicForests
Even-aged	Central Gippsland	Noojee	464-501-0031	No	MAS	CFE	49.12	10.86 VicForests
Even-aged	Central Gippsland	Noojee	464-507-0005	No	MAS	CFE	16.63	12.12 VicForests
Even-aged	Central Gippsland	Noojee	464-507-0006	No	MAS	CFE	46.9	33.23 VicForests
Even-aged	Central Gippsland	Erica	480-506-0018	No	AAS	CFE	23.2	8.82 VicForests
Even-aged	Central Gippsland	Erica	481-501-0023	No	AAS	CFE	16.96	6.24 VicForests
Even-aged	Central Gippsland	Erica	481-505-0005	No	MAS	CFE	30.78	13.63 VicForests
Even-aged	Central Gippsland	Erica	482-501-0053	No	MAS	CFE	16.85	10.66 VicForests
Even-aged	Central Gippsland	Erica	483-503-0008	No	MAS	CFE	11.05	2.94 VicForests
Even-aged	Central Gippsland	Erica	484-501-0023	No	FMS	STR	33.96	30.66 VicForests
Even-aged	Central Gippsland	Erica	484-501-0028	No	FMS	STR	37.8	19.47 VicForests
Even-aged	Central Gippsland	Erica	484-504-0006	No	FMS	STR	50.46	37.55 VicForests
Even-aged	Central Gippsland	Erica	487-502-0001	No	FMS	STR	39.31	25.05 VicForests
Even-aged	Central Gippsland	Erica	490-503-0004	No	FMS	STR	52.11	25.03 VicForests
Even-aged	Central Gippsland	Heyfield	503-501-0003	No	MMS	CFE	48.51	14.73 VicForests
Even-aged	Central Gippsland	Heyfield	503-501-0005	No	AAS	RRH	19.48	8.63 VicForests
Even-aged	Central Gippsland	Heyfield	520-501-0001	No	AAS	RRH	26.33	10.36 VicForests
Even-aged	Central Gippsland	Heyfield	520-501-0010	No	AAS	RRH	24.19	9.08 VicForests
Even-aged	North East	Upper Murray	676-527-0003	No	AAS	CFE	39.84	3.18 VicForests
Even-aged	North East	Upper Murray	676-528-0004	No	AAS	CFE	47.01	22.59 VicForests
Even-aged	North East	Upper Murray	676-530-0006	No	AAS	CFE	18.4	9.62 VicForests
Even-aged	North East	Upper Murray	676-536-0003	No	AAS	CFE	49.65	22.71 VicForests
Even-aged	North East	Upper Murray	686-508-0013	No	AAS	CFE	38.74	3.78 VicForests
Even-aged	North East	Upper Murray	686-510-0002	No	AAS	CFE	49.19	2.53 VicForests
Even-aged	North East	Upper Murray	686-510-0004	No	AAS	CFE	51.4	9.71 VicForests
Even-aged	North East	Upper Murray	687-511-0005	No	AAS	CFE	24.13	16.93 VicForests
Even-aged	North East	Upper Murray	687-512-0012	No	AAS	CFE	42.77	16 VicForests
Even-aged	North East	Upper Murray	687-514-0004	No	AAS	CFE	20.04	4.12 VicForests
Even-aged	Tambo	Bairnsdale	743-501-0002	No	FMS	STR	41.72	34.36 VicForests
Even-aged	Tambo	Bairnsdale	743-501-0008	No	FMS	STS	40.03	35.79 VicForests
Even-aged	Tambo	Bairnsdale	743-502-0004	No	CMS	STR	22.38	19.86 VicForests

Even-aged	Tambo	Bairnsdale	743-502-0005	No	CMS	STR	29.12	19.67 VicForests
Even-aged	Tambo	Bairnsdale	743-505-0003	No	FMS	STR	26.1	23.87 VicForests
Even-aged	Tambo	Bairnsdale	743-506-0002	No	CMS	STR	31.29	18.7 VicForests
Even-aged	Tambo	Bairnsdale	743-513-0006	No	CMS	STR	20.11	15.45 VicForests
Even-aged	Tambo	Swifts Creek	749-501-0001	No	AAS	STS	47.88	19.29 VicForests
Even-aged	Tambo	Swifts Creek	749-501-0002	No	AAS	CFE	14.06	7.27 VicForests
Even-aged	Tambo	Swifts Creek	760-506-0010	No	AAS	STR	42.87	21.36 VicForests
Even-aged	Tambo	Swifts Creek	760-507-0002	No	AAS	CFE	42.9	18.38 VicForests
Even-aged	Tambo	Swifts Creek	765-504-0003	No	AAS	CFE	32.95	24.66 VicForests
Even-aged	Tambo	Swifts Creek	773-501-0025	No	AAS	CFE	19.49	15.45 VicForests
Even-aged	Tambo	Swifts Creek	774-502-0002	No	MMS	STR	28.96	22.13 VicForests
Even-aged	Tambo	Swifts Creek	774-503-0013	No	MMS	STR	23.78	13.53 VicForests
Even-aged	East Gippsland	Nowa Nowa	801-508-0005	No	CMS	STR	50.56	29.22 VicForests
Even-aged	East Gippsland	Orbost	827-508-0018	No	FMS	STR	34.41	12.54 VicForests
Even-aged	East Gippsland	Orbost	827-514-0015	No	FMS	STR	27.69	8.25 VicForests
Even-aged	East Gippsland	Orbost	829-512-0012	No	FMS	STR	28.97	19.04 VicForests
Even-aged	East Gippsland	Orbost	832-511-0009	No	FMS	STR	37.82	23.21 VicForests
Even-aged	East Gippsland	Orbost	832-511-0010	No	CMS	STR	21.24	15.11 VicForests
Even-aged	East Gippsland	Orbost	833-513-0005	No	FMS	STR	17.91	7.42 VicForests
Even-aged	East Gippsland	Orbost	834-506-0013	No	CMS	STR	25.79	16.83 VicForests
Even-aged	East Gippsland	Orbost	836-508-0009	No	FMS	CFS	36	8.5 VicForests
Thinning	East Gippsland	Cann River	874-501-0010	No	CMS	THB	117.88	44.78 VicForests
Even-aged	East Gippsland	Cann River	878-513-0010	No	FMS	STR	41.19	38.47 VicForests
Even-aged	East Gippsland	Cann River	885-515-0004	No	MMS	STS	44.36	9.71 VicForests

## Attachment 2 – Undefined stands summary

The table below shows all 2019/20 harvested areas that are not allocated as Ash or Mixed species in the VicForests\_Allocation\_Apr2019 spatial layer. These areas have been assigned to either Mixed Species or Ash for the purposes of reporting harvested area and compliance with five-year harvest limits. All the areas were harvested under authorisation of Forest Produce Licence FPL0000012 confirmed by DELWP.

Coupe Address	Coupe Name	Silviculture System	Date Commenced	Date Completed	Undefined Area (Hectares)	Assigned Forest Stand Type	Issue
318-512-0034	Party Popper	STR	15/04/2020	30/06/2020	1.856	Ash	Incorrectly mapped SPZ. Zoning amendment approved by DELWP
350-503-0001	Billowcase	CFE	21/02/2020	6/05/2020	0.246	Ash	Incorrectly modelled value. SFRI non-eucalypt
388-505-0002	Wales	CFE	16/01/2020	30/06/2020	0.697	Ash	Incorrectly modelled value. Zoning amendment to convert SPZ to GMZ approved by DELWP
388-505-0004	Princess Di	CFE	18/03/2016	30/06/2020	0.594	Mixed Species	Incorrectly modelled value. SFRI non-eucalypt
461-503-0005	Castletown	VR1	2/09/2019	22/11/2019	0.593	Mixed Species	Incorrectly modelled value. SFRI non-eucalypt
866-508-0026	Wasp	STR	17/09/2019	31/10/2019	0.461	Mixed Species	Incorrectly modelled value SFRI non-eucalypt
Notes:							
Slivers <0.1 ha have not been included in this summary. This is consistent with previous analysis undertaken.							
Errors are present in the VicForests_Allocation_Apr2019 spatial layer. These relate to areas available for harvesting but not allocated as Ash or Mixed Species in the spatial layer. Such areas include areas mapped as non-eucalypt in the State-wide Forest Resource Inventory spatial layer, errors in the FMZ layer and other incorrectly mapped features.							

## Appendix 2

### After the Logging

Failing to regrow Victoria's native forests.



## 2018 Planting, Fertilising and Guarding Tender

### ***Introduction***

VicForests invites prices for hand planting, fertilising and guarding works as part of its regeneration program in the Toolangi, Mt Disappointment, Acheron and Tolmie areas.

### ***Eligibility criteria***

To be considered contractors must have the following:

- ABN and ACN (ie. must be a company)
- Safety Management System,
- Workcover, public liability, vehicle and plant insurance

### ***Description of works***

The works involve:

- Transport of seedlings, fertiliser, tree guards and stakes from Alexandra depot to site
- Planting of eucalypt seedlings (201,500 seedlings in total)
- Fertilising each seedling with one 20g fertiliser tablet
- Installation of tree guards (required for 87,980 seedlings in total)

The work covers 21 sites. Each site is treated as a separate tender lot. Given the quantity and complexity of the work it is anticipated that the work will be allocated between a number of contractors.

Ease of access varies between the sites. Some are accessible by 4x4, some by side-by-side, and some only by foot. The contractor is responsible for the transport of seedlings and planting materials to the site. Access to some of the sites is very challenging.

Works must be completed as per the specification attached in Appendix 2.

### ***Safety***

The contractor must have a fully functioning safety management system. This must include appropriate risk assessment processes which ensure compliance with relevant occupational health and safety regulations.

All planting crews must wear personal protective equipment appropriate for working in a forest environment. As a minimum, this includes safety helmet and high visibility clothing.

Use of off-road vehicles

- The contractor may elect to use a side-by-side vehicle. Operators must be appropriately trained and must use all protective equipment recommended by the manufacturer.
- The use of quad bikes is not permitted.

### ***Timing of works***

Preference is for works to be completed between 18 June and 24 August 2018. Works must be completed by 7 September 2017 at the latest. Preference will be given to contractors who can complete their allotted sites within the preferred timeframe.

### ***Site inspection***

VicForests will run a group field inspection day. The purpose of this day is to show contractors a range of planting sites along with the tree guards which will be used. It will also be an opportunity to answer any questions about the specifications. The day will be held in the Toolangi State Forest on Wednesday 2 May 2018. If you would like to attend this day contact Karen Doherty on 0419 876 963. Attendance on the group field inspection is optional.

The group field inspection will only visit a small number of planting sites. Contractors are strongly encouraged to visit all sites prior to submitting their response. Maps are attached showing the planting sites. Maps are georeferenced so will work in Avenza Maps.

Note that two sites (The Screw and Broad Peak) are behind a gate which is often locked. Contact Karen Doherty to arrange access prior to visiting these sites.

### ***Pricing structure***

- Prices are exclusive of GST.
- It is preferred that contractors enter prices for all lots, but this is not a requirement.
- The \$/seedling price includes; transport from depot, planting, fertilising and guarding (where required) as per the attached specifications.
- The total number of seedlings outlined in Appendix 1 is subject to variation. Payment will be based upon the actual number of seedlings planted.
- The \$/hour price is for any additional, minor planting works which may be required in addition to the work outlined in Appendix 1. It is for onsite time only (does not include travel).
- Payment terms are 30 days from receipt of invoice. Invoices may be submitted at the conclusion of each site.

### ***Submission of tender***

Responses must be received by 9:00am Wednesday 9 May 2018.

Responses must be on the form attached in Appendix 3.

Responses may be submitted by either:

- Sent by email to karen.doherty@vicforests.com.au, with subject line "Confidential planting tender", or
- Posted or delivered in a sealed envelope to: Karen Doherty, Planting tender, VicForests, 5 Binns McCraes Rd, Alexandra, VIC 3714

### ***Selection of preferred contractor***

VicForests will select contractor(s) which it believes will give it the best outcome. Factors taken into consideration will include:





- Price
- Experience
- Ability to complete within preferred timeframe
- Safety

The preferred contractor(s) will be notified by Friday 2 June. A contract will then be drawn up by VicForests and must be signed before works commence.

### ***Questions***

Any questions must be directed to Karen Doherty (0419 876 963) or [karen.doherty@vicforests.com.au](mailto:karen.doherty@vicforests.com.au). Questions must be received no later than midday on Monday 7 May.

## Appendix 1. Summary of the works

Site #	District	Name	Site Preparation	Species	Stocking	Area	Tree Guard Required				Total	Comments
							No Guard	60cm White	80cm Black	90cm Coreflute		
1	Mt Disappointment	Machete	rough heap	MM	1200	3.0	1,800	-	1,800	-	3,600	guard 1 in 2
2	Mt Disappointment	Memphis Belle	rough heap	MM	1200	2.8	1,680	-	1,680	-	3,360	guard 1 in 3
3	Mt Disappointment	Big Surprise	rough heap	MM	1200	16.0	9,600	9,600	-	-	19,200	guard 1 in 4
4	Mt Disappointment	Bubba Hotep	rough heap	MM,CY	1200	4.4	2,640	-	2,640	-	5,280	guard 1 in 5
5	Toolangi	The Screw	rough heap	MA	1000	1.7	-	-	1,700	-	1,700	locked gate - contact VF prior to visit
6	Toolangi	Broad Peak	rough heap	MA,SG	800	1.7	-	-	-	1,360	1,360	locked gate - contact VF prior to visit
7	Toolangi	Sherpa	rough heap/fence	MA,VM	1500	17.4	26,100	-	-	-	26,100	fenced
8	Toolangi	Tenzing/Norgay	rough heap	MA	800	14.4	-	11,520	-	-	11,520	
9	Toolangi	Cinders	rough heap	MA	800	2.8	-	2,240	-	-	2,240	
10	Toolangi	Phillip/Flinders Island	rough heap	MA	800	25.0	-	-	24,480	-	24,480	Winter access from Murrindindi Rd only
11	Toolangi	Plane Hill	rough heap	MA	800	6.9	-	-	5,520	-	5,520	
12	Toolangi	Kalamata	none - infill planting	MA	800	8.9	-	-	7,120	-	7,120	infill planting
13	Toolangi	Sea Dragon	rough heap/fence	MA,VM	1500	7.2	10,800	-	-	-	10,800	fenced
			rough heap	MA	800	1.7	-	-	1,120	240	1,360	unfenced area
14	The Acheron	Maidei	rough heap/fence	MA,MM	1500	9.1	13,650	-	-	-	13,650	fenced (small area at top of hill out of fence)
15	The Acheron	Acheron Flat	rough heap	MA	800	7.9	-	-	6,320	-	6,320	
16	Cambarville	Observation Hill	spot cultivation	MA	1000	4.8	-	-	4,800	-	4,800	
17	Tolmie	Ryans Creek	rough heap	MM,BG,NP	1500	2.3	1,725	-	1,725	-	3,450	guard 1 in 2
18	Tolmie	Dicks Landing East	rough heap	MM,BG,NP	1500	2.5	1,875	-	1,875	-	3,750	guard 1 in 2
19	Tolmie	Nutcase	rough heap	MM,BG,NP	1500	20.0	30,000	-	-	-	30,000	
20	Tolmie	Kelly Creek	rough heap	MM,BG,NP	1500	9.1	13,650	-	-	-	13,650	
21	Mansfield	Lost Scope	rough heap	AA	800	2.8	-	-	2,240	-	2,240	
						172.4	113,520	23,360	63,020	1,600	201,500	

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## 2019 Planting Tender

### ***Introduction***

VicForests invites prices for hand planting and guarding works as part of its regeneration program in the Toolangi, Mt Disappointment and Acheron areas.

### ***Eligibility criteria***

To be considered contractors must have the following:

- ABN and ACN (ie. must be a company)
- Safety Management System,
- Workcover, public liability, vehicle and plant insurance

### ***Description of works***

The works involve:

- Transport of seedlings, tree guards and stakes from Alexandra depot to site
- Planting of eucalypt seedlings (approx. 134,960 seedlings in total)
- Installation of tree guards (required for 74,460 seedlings in total)

The work covers 20 sites. Each site is treated as a separate tender lot. Given the quantity and complexity of the work it is anticipated that the work will be allocated between several contractors.

Ease of access varies between the sites. Some are accessible by 4x4, some by side-by-side, and some only by foot. The contractor is responsible for the transport of seedlings and planting materials to the site. Access to some of the sites is very challenging.

Works must be completed as per the specification attached in Appendix 2.

### ***Safety***

The contractor must have a fully functioning safety management system. This must include appropriate risk assessment processes which ensure compliance with relevant occupational health and safety regulations.

All planting crews must wear personal protective equipment appropriate for working in a forest environment. As a minimum, this includes safety helmet and high visibility clothing.

Use of off-road vehicles

- The contractor may elect to use a side-by-side vehicle. Operators must be appropriately trained and must use all protective equipment recommended by the manufacturer.
- The use of quad bikes is not permitted.

### ***Timing of works***

Preference is for works to be completed between 17 June and 26 August 2019. Works must be completed by 14 September 2019 at the latest. Preference will be given to contractors who can complete their allotted sites within the preferred timeframe.

### ***Site inspection***

VicForests will run a group field inspection day. The purpose of this day is to show contractors a range of planting sites along with the tree guards which will be used. It will also be an opportunity to answer any questions about the specifications. The day will be held in the Toolangi State Forest on Friday 10 May 2019. If you would like to attend this day contact Karen Doherty on 0419 876 963. Attendance on the group field inspection is optional.

The group field inspection will only visit a small number of planting sites. Contractors are strongly encouraged to visit all sites prior to submitting their response. Maps are attached showing the planting sites. Maps are georeferenced so will work in Avenza Maps.

Note that one site (Cog/Screw) is behind a gate which is often locked. Contact Karen Doherty to arrange access prior to visiting this site

### ***Pricing structure***

- Prices are exclusive of GST.
- It is preferred that contractors enter prices for all lots, but this is not a requirement.
- The \$/seedling price includes; transport from depot, planting and guarding (where required) as per the attached specifications.
- The total number of seedlings outlined in Appendix 1 is subject to variation. Payment will be based upon the actual number of seedlings planted.
- The \$/hour price is for any additional, minor planting works which may be required in addition to the work outlined in Appendix 1. It is for onsite time only (does not include travel).
- Payment terms are 30 days from receipt of invoice. Invoices may be submitted upon completion of each site.

### ***Submission of tender***

Responses must be received by 12:00pm Wednesday 22 May 2019.

Responses must be on the form attached in Appendix 3.

Responses may be submitted by either:

- Sent by email to karen.doherty@vicforests.com.au, with subject line "Confidential Planting Tender", or
- Posted or delivered in a sealed envelope to: Karen Doherty, Planting tender, VicForests, 5 Binns McCraes Rd, Alexandra, VIC 3714

### ***Selection of preferred contractor***

VicForests will select contractor(s) which it believes will give it the best outcome. Factors taken into consideration will include:

- Price
- Experience
- Ability to complete within preferred timeframe



- Safety

VicForests will endeavour to notify the successful contractor(s) by Friday 24 May. A contract will then be drawn up by VicForests and must be signed before works commence.

### ***Questions***

Any questions must be directed to Karen Doherty (0419 876 963) or [karen.doherty@vicforests.com.au](mailto:karen.doherty@vicforests.com.au). Questions must be received no later than midday on Wednesday 15 May 2019.



## Appendix 1. Summary of the works

							Tree Guard Required				
Site #	Location	Site Name	Fenced	Approx Area	Stocking	Approx # seedlings	No Guard	80cm Black Mesh	90cm Black Mesh	90cm Corflute	Comments
1	Black Range	Envelope	No	8.0	1200	9,600	4,800	4,800			guard 1 in 2
2	Black Range	Black Mohawk	Yes	18.1	1200	21,720	21,720				
3	Toolangi	Skinny Jim	No	9.0	800	7,200		6,550	650		
4	Toolangi	Spinning	Yes	15.9	800	12,720	12,720				
			No	0.5	800	400		50		350	
5	Toolangi	Ash Finger	No	6.0	800	4,800		4,800			
6	Toolangi	Buggy	No	10.0	800	8,000		8,000			
7	Toolangi	Bass Strait	No	1.8	800	1,440		1,440			vehicle access in dryish weather only
8	Toolangi	Flicka	Yes	11.6	800	9,280	9,280				
9	Toolangi	Billygoat	No	0.8	500	400		400			
10	Toolangi	Apartments	No	10.8	800	8,640		8,640			
11	Toolangi	Yellow Band	No	10.3	800	8,240		8,240			minimal vehicle/dry access at best
12	Toolangi	House of Ash	No	7.0	800	5,600		5,600			
13	Toolangi	Sherpa	Yes	11.9	800	9,520	9,520				
14	Toolangi	Third Quarter	No	5.1	800	4,080		4,080			
15	Toolangi	Cog/Screw	No	13.0	800	10,400		10,400			locked gate
16	Toolangi	Mosquito	No	1.8	800	1,440		1,440			
17	Toolangi	Anderson Mill	No	4.4	800	3,520		3,520			vehicle access in dryish weather only
18	Mt Disappointment	Snowboard	No	4.1	1200	4,920	2,460	2,460			guard 1 in 2
19	The Acheron	Sango	No	2.0	800	1,600		1,600			
20	The Acheron	Blackeagle	No	1.8	800	1,440		1,440			

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## 2020 Planting Tender

### ***Introduction***

VicForests invites prices for hand planting and guarding works as part of its regeneration program in the Toolangi, Black Range, Marysville and Mt Disappointment State Forests.

### ***Eligibility criteria***

To be considered contractors must have the following:

- ABN and ACN (ie. must be a company)
- Safety Management System,
- Workcover, public liability, vehicle and plant insurance

### ***Description of works***

The works involve:

- Transport of seedlings, tree guards and stakes from Alexandra depot to site
- Planting of eucalypt seedlings (approx. 180,000 seedlings in total)
- Installation of tree guards (required for approx. 80,000 seedlings in total)

The work covers 26 sites. Each site is treated as a separate tender lot. Given the quantity and complexity of the work it is anticipated that the work will be allocated between several contractors.

Ease of access varies between the sites. Some are accessible by 4x4, some by side-by-side, and some only by foot. The contractor is responsible for the transport of seedlings and planting materials to the site. Access to some of the sites is very challenging.

Works must be completed as per the specification attached in Appendix 2.

Contractors are strongly encouraged to visit all sites prior to submitting their response. Maps are attached showing the planting sites. Maps are georeferenced so will work in Avenza Maps.

### ***Safety***

The contractor must have a comprehensive safety management system. This must include appropriate risk assessment processes which ensures compliance with relevant occupational health and safety regulations.

All planting crews must wear personal protective equipment appropriate for working in a forest environment. As a minimum, this includes safety helmet and high visibility clothing.

Use of off-road vehicles

- The contractor may elect to use a side-by-side vehicle. Operators must be appropriately trained and must use all protective equipment recommended by the manufacturer.
- The use of quad bikes is not permitted.

### ***Timing of works***

Preference is for works to be completed between 15 June and 15 August 2020. Works must be completed by 6 September 2020 at the latest. Preference will be given to contractors who can complete their allotted sites within the preferred timeframe.

### ***Pricing structure***

- Prices are exclusive of GST.
- It is preferred that contractors enter prices for all lots, but this is not a requirement.
- The \$/seedling price includes; transport from depot, planting and guarding (where required) as per the attached specifications.
- The total number of seedlings outlined in Appendix 1 is subject to variation. Payment will be based upon the actual number of seedlings planted.
- The \$/hour price is for any further planting works which may be required in addition to the work outlined in Appendix 1. It is for onsite time only (does not include travel).
- Payment terms are 30 days from receipt of invoice. Invoices may be submitted upon completion of each site.

### ***Submission of tender***

Responses must be received by **9:00am Monday May 18, 2020**.

Responses must be on the form attached in Appendix 3.

Responses may be submitted by email to [karen.doherty@vicforests.com.au](mailto:karen.doherty@vicforests.com.au), with subject line "Confidential Planting Tender"

### ***Selection of preferred contractor***

VicForests will select contractor(s) which it believes will give it the best outcome. Factors taken into consideration will include:

- Price
- Experience
- Ability to complete within preferred timeframe
- Safety
- Victorian Social Procurement Framework eligibility

VicForests will endeavour to notify the successful contractor(s) by Wednesday May 20, 2020. A contract will then be drawn up by VicForests and must be signed before works commence.

### ***Questions***

Any questions must be directed to Karen Doherty (0419 876 963) or [karen.doherty@vicforests.com.au](mailto:karen.doherty@vicforests.com.au). Questions must be received no later than midday on Thursday 14 May, 2020.

## Appendix 1. Summary of the works

Site #	Location	Site Name	Site Prep	Fenced	Approx Area (ha)	Stocking	Approx # seedlings	Tree guard required		
								No guard	Black Mesh	Black
1	Black Range	Northeast Spur	Rough heaped	Yes	11.4	800	9,120	9,120		
2	Black Range	Red Fox	Rough heaped	No	1.6	800	1,280		1,280	
3	Black Range	Cavity	Rough heaped	No	4.3	800	3,440		3,440	
4	Black Range	Doghouse	Rough heaped	Yes	12.8	800	10,240	10,240		
5	Black Range	Shockwave	None	No	28.5	400	11,400		11,400	
6	Black Range	Garlick	Rough heaped	No	1.5	800	1,200		1,200	
7	Toolangi	Gags	Rough heaped	No	2	800	1,600		1,600	
8	Toolangi	Delilah	Rough heaped	No	2.7	800	2,160			
9	Toolangi	Twisting	Rough heaped	Yes	12.3	800	9,840	9,840		
10	Toolangi	Tops	Rough heaped	Yes	26.3	800	21,040	21,040		
11	Toolangi	King Island	Rough heaped	Yes	26.6	800	21,280	21,280		
				No	5.6	800	4,480		4,480	
12	Toolangi	Marginalise	None	No	37.7	400	15,080		15,080	
13	Toolangi	Big Axe	Rough heaped	No	4.5	800	3,600			
14	Toolangi	Raining Fire	Rough heaped	No	9.7	800	7,760			
15	Toolangi	Sea Shells	Rough heaped	Yes	14.5	800	11,600	11,600		
				No	2.0	800	1,600			
16	Toolangi	The Slide	None	No	2.4	400	960			
17	Toolangi	Punt Road	Rough heaped	Yes	8.2	800	6,560	6,560		
				No	8.1	800	6,480			
18	Toolangi	Floater	Rough heaped	No	4.4	800	3,520		3,520	
19	Toolangi	Fenton	Rough heaped	No	1.6	800	1,280			
20	Toolangi	Summit Ridge	Rough heaped	No	1.5	800	1,200		1,200	
21	Toolangi	Jukebox	Rough heaped	No	3.9	800	3,120			
22	Mt Disappointment	Rambler	Rough heaped	No	1.7	800	1,360		1,360	
23	Blue Range	Parks Thinnings	Rough heaped	No	3.2	800	2,560		2,560	
24	The Acheron	Strickland Spur Ash	Rough heaped	Yes	5.2	800	4,160	4,160		
25	The Acheron	Quel	Rough heaped	No	5.1	600	3,060			
26	The Acheron	Booster	Rough heaped	Yes	8.8	1000	8,800	8,800		
				No	3.7	1000	3,700		3,000	

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## 3.12021 Planting Tender – North East Region

### ***Introduction***

VicForests invites prices for the planting, fertilising, and guarding of eucalypt seedlings as part of its regeneration program near Toolangi, Narbethong, Alexandra, Mansfield and Corryong.

### ***Eligibility criteria***

To be considered contractors must have the following:

- ABN and ACN (ie. must be a company)
- Safety Management System,
- Workcover, public liability and motor vehicle insurance (\$20,000,000 indemnity)

### ***Description of works***

The works involve:

- Transport of seedlings, tree guards and stakes from Alexandra depot to site
- Planting of eucalypt seedlings (200,000 seedlings)
- Placement of fertiliser tablets (required for 35,000 seedlings)
- Installation of tree guards (required for 55,000 seedlings)
- Pinning down of tree guards (required for 9,000 guards)

The work covers 31 sites. Each site is treated as a separate tender lot. Given the quantity and complexity of the work it is anticipated that the work will be allocated between several contractors.

Ease of access varies between the sites. Some are accessible by 4x4, some by side-by-side, and some only by foot. The contractor is responsible for the transport of seedlings, fertiliser and guarding materials to the site. Access to some of the sites is very challenging.

Contractors are strongly encouraged to visit all sites prior to submitting their response. Maps are attached showing the planting sites. Maps are georeferenced so will work in Avenza Maps.

Works must be completed as per the specification attached in Appendix 2.

Where applicable, earthmoving machinery will be preparing sites for planting in March/April 2021. As most sites were not prepared at the time of tender release, there may be some variation between the planned and actual planting area. Any changes to area will change the number of seedlings required per site.

Note: Each contractor will have an allocation of recycled guards to re-use in their program. This will be determined equally across all successful contractors according to size of program.

## ***Safety***

The contractor must have a comprehensive safety management system. This must include appropriate risk assessment processes to ensure compliance with occupational health and safety regulations. VicForests will conduct desktop and field audits of safety management systems.

All planting crews must wear personal protective equipment appropriate for working in a forest environment. As a minimum, this includes safety helmet and high visibility clothing.

Use of off-road vehicles

- The contractor may elect to use a side-by-side vehicle. Operators must be appropriately trained and must use all protective equipment recommended by the manufacturer
- The Safety Management System must include Instruction for this
- The use of quad bikes is not permitted.

## ***Timing of works***

Commencement:

- Planting can commence from 14 June 2021.
- It may be possible to commence earlier subject to seedling availability and suitable rainfall.

Completion:

- Preference is for works to be completed by 13 August 2021.
- At the latest, works must be completed by 3 September 2021.
- Preference will be given to contractors who can complete their allotted sites within the preferred timeframe.
- If contractors are falling behind the timeframe they indicated in their submission, VicForests may reallocate some of their sites.

## ***Pricing structure***

- Prices are exclusive of GST.
- It is preferred that contractors enter prices for all lots, but this is not a requirement.
- The \$/seedling price includes:
  - transport of seedlings and planting materials from Alexandra depot to site,
  - planting,
  - fertilising (where required),
  - guarding (where required), and
  - pinning guards (where required).
- The total number of seedlings outlined in Appendix 1 is subject to variation. Payment will be based on the actual number of seedlings planted.



- The \$/hour price is for any further planting works which may be required in addition to the work outlined in Appendix 1. It is for onsite time only (does not include travel).
- Payment terms are 30 days from receipt of invoice. Invoices may be submitted upon completion of each site.

### ***Submission of tender***

Responses must be received by **9:00am Wednesday 31 March 2021**.

Responses must be on the form attached in Appendix 3.

Responses may be submitted by email to [karen.doherty@vicforests.com.au](mailto:karen.doherty@vicforests.com.au), with subject line "Confidential Planting Tender"

### ***Selection of preferred contractor(s)***

VicForests will select contractor(s) which it believes will give it the best outcome. Factors taken into consideration will include:

- Price
- Experience
- Ability to complete within preferred timeframe
- Safety
- Victorian Social Procurement Framework eligibility

VicForests will endeavour to notify the successful contractor(s) by Wednesday 7 April 2021.

A contract will then be drawn up by VicForests and must be signed before works commence.

### ***Questions***

Any questions must be directed to Karen Doherty (0419 876 963) or [karen.doherty@vicforests.com.au](mailto:karen.doherty@vicforests.com.au). There will be an opportunity to attend a field day for contractors who have not previously worked for VicForests before and would like more information, contact Karen if interested.

Questions must be received no later than midday on Wednesday 24 March 2021.

## Appendix 1. Summary of the works

Site #	Location	Site Name	Site Preparation	Fenced	Approx Area (ha)	Stocking	Approx # seedlings	Fertiliser tablet	Species	Tree guard required			Comments
										No guard	Black Mesh	Black Mesh + pin	
1	Kinglake	Hunter	rough heaped	no	19.3	800	15,440	no	MM	13,200	2,240	-	Main section unguarded (16.5ha). Small northern section guarded (2.8ha)
2	Toolangi	Castella Quarry	rough heaped	no	7.1	800	5,680	no	MA	2,840	2,840	-	guard 1 in 2
3	Toolangi	Tasmanian	rough heaped	yes - 5.9ha	8.6	800	6,880	no	MM	4,720	2,160	-	
4	Toolangi	Low Downies	none - post harvest	no	12.7	800	10,160	no	MM	6,773	3,387	-	guard 1 in 3
5	Toolangi	Flow Zone	rough heaped	yes - 4.7ha	11.3	800	9,040	no	MA	3,760	5,280	-	Unguarded inside fence (4.7ha). Guarded outside fence (6.6ha)
6	Toolangi	Black Widow	rough heaped	no	3.7	800	2,960	no	MA	-	2,960	-	access from north across gully
7	Toolangi	Qubby	rough heaped	yes	5.1	800	4,080	no	MA	4,080	-	-	
8	Toolangi	Plane Hill	rough heaped	yes	11.9	800	9,520	no	MM & MA	9,520	-	-	MA lower slope. MM upper slope.
8	Toolangi	Kalamata	mulched	yes - 10.5ha	12	800	9,600	yes	MA	8,400	-	1,200	Unguarded inside fence (10.5ha). Guarded outside fence (1.5ha)
9	Toolangi	Flicka	rough heaped	no	6.3	800	5,040	no	MA	-	-	5,040	
10	Toolangi	Horse Float	rough heaped	yes - 13.6ha	17.2	800	13,760	no	MM & MA	10,880	-	2,880	Unguarded inside fence (13.6ha). Guarded outside fence (3.6ha). MA southern section. MM elsewhere.
11	Toolangi	Glenview	rough heaped	yes	27.7	800	22,160	no	MM	22,160	-	-	
12	Black Range	New Whiteback	rough heaped	no	1.1	800	880	no	MM	-	880	-	
13	Black Range	Bear Grylls	rough heaped	no	3.8	800	3,040	no	MM	-	3,040	-	
14	Black Range	Man vs Wild	rough heaped	no	5.4	800	4,320	no	MM	-	4,320	-	
15	Black Range	Thinker	none - post harvest	no	16	800	12,800	no	MM	8,533	4,267	-	guard 1 in 3
16	Royston Range	Blind Freddy	rough heaped	yes	8.2	800	6,560	no	AA	6,560	-	-	Access via Snobs Ck Rd -> No 6 Tk
17	Royston Range	Calvin	rough heaped	no	2	800	1,600	no	MA	1,600	-	-	Access via Snobs Ck Rd -> No 6 Tk to coupe above then ~700m walk to planting area
18	Royston Range	Magilla Gorilla	rough heaped	no	3.1	800	2,480	no	AA	2,480	-	-	Access via No 5 Tk
19	Royston Range	Super Ted	rough heaped	no	1.6	800	1,280	no	AA	1,280	-	-	Access via No 5 Tk
20	Cambarville	Bayern Munich	rough heaped	no	4.7	400	1,880	no	MA	1,880	-	-	
21	The Acheron	Kenya	rough heaped	no	1.5	800	1,200	yes	MM	-	1,200	-	
22	The Acheron	Creepy	rough heaped	yes - 3.6ha	4.1	800	3,280	no	MA	2,880	400	-	Unguarded inside fence (3.6ha). Unguarded outside fence (0.5ha)
23	The Acheron	Lil Jon	rough heaped	yes	5.1	800	4,080	no	MA	4,080	-	-	
24	Tolmie	Nutcase	rough heaped	no	1.3	800	1,040	yes	MM	-	1,040	-	
25	Tolmie	Middle Stump	rough heaped	no	4.3	800	3,440	yes	MM	-	3,440	-	
26	Mansfield	Evans East	rough heaped	no	4.7	800	3,760	yes	AA	-	3,760	-	
27	Mansfield	Lost Scope	rough heaped	no	6.6	800	5,280	no	AA	-	5,280	-	Access via Carters Rd
28	Mt Wills	Rapala	rough heaped	no	2.2	1000	2,200	no	AA	2,200	-	-	seedlings treated with Sentre browsing repellent
29	Mt Wills	Bottom End	rough heaped	no	1.4	1000	1,400	no	AA	1,400	-	-	seedlings treated with Sentre browsing repellent
30	Mt Wills	Tym Tym	rough heaped	no	8.6	1000	8,600	no	AA	8,600	-	-	seedlings treated with Sentre browsing repellent
31	Corryong	Dunstons Salvage	rough heaped	no	19.7	800	15,760	yes	AA	15,760	-	-	Actual site to be planted may change. If planning site visit contact VF as are a very busy with log trucks
					248.3		199,200			143,586	46,494	9,120	

--

## Appendix 3

### After the Logging

Failing to regrow Victoria's native forests.





Our Ref.  
Your Ref.



Level 7, 473 Bourke Street  
Melbourne Vic 3000  
GPO Box 191 Melbourne 3001  
Telephone (03) 9608 9500  
Facsimile (03) 9608 9566  
www.vicforests.com.au  
ABN 7684 6538 543

27 September 2018

Secretary  
Department of Economic Development, Jobs, Transport and Resources  
Level 12, 1 Spring Street  
Melbourne VIC 3000

BY EMAIL [redacted]@ecodev.vic.gov.au



Dear [redacted]

**VicForests Annual Reporting of area of timber harvested and regeneration results**

Clause 18 of the Allocation (Amendment) Order 2014 states that;

*"VicForests must submit an annual report to the Secretary to DEPI by 30 September each year describing the area of timber harvested and regeneration results for the preceding financial year..."*

Consistent with the Machinery of Government changes, VicForests now submits these results to the Secretary to the Department of Economic Development, Jobs, Transport and Resources (DEDJTR).

To meet its requirements, VicForests has prepared the *Annual Harvesting and Regeneration Report 2017/18* and associated data (attached). The objectives of this report are to provide information on:

1. VicForests' Area of Timber Harvested in 2017/18;
2. VicForests' Annual Regeneration Results for 2017/18; and
3. A summary of other Authorised Activities undertaken by VicForests in 2017/18 in accordance with Clause 10 of the Allocation Order.

If you have any questions regarding the Annual Harvesting and Regeneration Report or VicForests' process for compiling this information, please contact [redacted] Forest Policy and Compliance Officer on [redacted].

Yours sincerely

[redacted]  
Chief Executive Officer

Cc: [redacted], Executive Director, Forest Industries, Fisheries and Game Policy, DEDJTR  
[redacted], Director, Forest Industries, Fisheries and Game Policy, DEDJTR

Atts.

Stand type	FMA	District	Coupe address	Roadline	Forest type	Silvi type	TRP Area	Harvested area	Admin Org
Even-aged	Central	Alexandra	283-503-0017	No	MMS	STR	45.37	37.59	VicForests
Even-aged	Central	Alexandra	284-502-0009	No	MMS	STR	25.35	13.14	VicForests
Even-aged	Central	Alexandra	286-503-0001	No	AAS	CFE	34.3	20.39	VicForests
Even-aged	Central	Alexandra	286-505-0012	No	MAS	RRH	41.15	24.14	VicForests
Even-aged	Central	Alexandra	286-505-0016	No	AAS	CFE	52.21	36.7	VicForests
Even-aged	Central	Alexandra	286-511-0005	No	AAS	RRH	31.28	15.48	VicForests
Even-aged	Central	Alexandra	286-514-0001	No	AAS	CFE	21.64	16.12	VicForests
Even-aged	Central	Alexandra	287-509-0005	No	MMS	CFE	25.31	10.58	VicForests
Even-aged	Central	Alexandra	287-512-0025	No	AAS	RRH	30.59	19.07	VicForests
Even-aged	Central	Alexandra	288-516-0007	No	AAS	RRH	50.54	26.2	VicForests
Even-aged	Central	Alexandra	288-518-0002	No	AAS	CFE	40.9	22.72	VicForests
Even-aged	Central	Alexandra	288-518-0010	No	AAS	CFE	44.19	23.35	VicForests
Even-aged	Central	Toolangi	295-515-0003	No	FMS	STR	36.47	17.93	VicForests
Even-aged	Central	Toolangi	297-547-0007	No	MAS	RRH	34.49	21.81	VicForests
Even-aged	Central	Toolangi	298-877-0005	No	MAS	STR	11.91	9.86	VicForests
Even-aged	Central	Toolangi	301-548-0007	No	FMS	STR	27.12	23.58	VicForests
Even-aged	Central	Toolangi	301-553-0004	No	MAS	STR	127.44	28.79	VicForests
Even-aged	Central	Toolangi	307-501-0001	No	MMS	STR	57.59	35.47	VicForests
Even-aged	Central	Marysville	309-009-0008	No	MAS	CFE	22.86	18.09	VicForests
Even-aged	Central	Marysville	309-508-0018	No	MAS	CFE	29.72	12.79	VicForests
Even-aged	Central	Marysville	309-509-0001	No	AAS	CFE	46.91	20.48	VicForests
Even-aged	Central	Marysville	309-509-0003	No	MAS	CFE	18.99	13.05	VicForests
Even-aged	Central	Marysville	309-509-0004	No	MAS	CFE	31.2	19.41	VicForests
Even-aged	Central	Marysville	309-511-0008	No	MAS	RRH	41.06	15.33	VicForests
Even-aged	Central	Marysville	309-512-0005	No	SHG	CFE	23.52	8.6	VicForests
Even-aged	Central	Marysville	311-522-0007	No	AAS	CFE	19.3	16.42	Shared
Even-aged	Central	Marysville	312-512-0007	No	MAS	RRH	37.1	18.08	VicForests
Even-aged	Central	Marysville	317-504-0002	No	AAS	RRH	51.25	23.56	VicForests
Even-aged	Central	Marysville	317-505-0003	No	AAS	RRH	34.05	5.38	VicForests
Even-aged	Central	Marysville	317-506-0001	No	MAS	CFE	18.58	10.68	VicForests
Even-aged	Central	Marysville	317-506-0002	No	MAS	CFE	30.73	9.61	VicForests
Even-aged	Central	Marysville	317-507-0001	No	MAS	CFE	28.65	8.7	VicForests

Even-aged	Central	Marysville	317-507-0003	No	MAS	CFE	27.62	23.29	VicForests
Even-aged	Central	Marysville	317-507-0006	No	MAS	CFE	33.82	25.78	VicForests
Even-aged	Central	Marysville	317-508-0005	No	AAS	CFE	34.77	16.43	VicForests
Even-aged	Central	Marysville	320-501-0018	No	AAS	CFE	44.54	27.84	VicForests
Even-aged	Central	Marysville	320-501-0028	No	AAS	CFE	41.75	31.96	VicForests
Even-aged	Central	Marysville	320-501-0029	No	AAS	CFE	43.71	37.09	VicForests
Even-aged	Central	Marysville	320-502-0006	No	AAS	CFE	43.5	33.13	VicForests
Even-aged	Central	Marysville	320-502-0014	No	AAS	CFE	43.05	30.76	VicForests
Even-aged	Central	Marysville	320-502-0017	No	AAS	CFE	37.81	32.28	VicForests
Even-aged	Central	Marysville	320-502-0018	No	AAS	CFE	47.31	40.08	VicForests
Even-aged	Central	Marysville	320-502-0023	No	AAS	CFE	32.24	28.65	VicForests
Even-aged	Central	Marysville	320-502-0041	No	AAS	CFE	50.3	24.73	VicForests
Even-aged	Benalla-Mansfield	Benalla/Mansfield	388-505-0003	No	AAS	CFE	47.68	23.81	VicForests
Even-aged	Benalla-Mansfield	Benalla/Mansfield	400-504-0001	No	AAS	CFE	23.29	11.18	VicForests
Even-aged	North East	Ovens	647-505-0005	No	AAS	CFE	92.96	34.32	VicForests
Even-aged	North East	Ovens	647-506-0014	No	AAS	CFE	39.51	2.07	VicForests
Even-aged	North East	Ovens	647-509-0006	No	AAS	CFS	40.91	4.43	VicForests
Even-aged	North East	Upper Murray	686-511-0003	No	AAS	CFE	30.66	24.83	VicForests
Even-aged	Dandenong	Powelltown	350-503-0008	No	MAS	CFE	30.85	20.91	VicForests
Even-aged	Dandenong	Powelltown	350-503-0009	No	MAS	CFE	20.88	12.36	VicForests
Even-aged	Central Gippsland	Noojee	457-508-0002	No	MAS	CFE	42.24	33.25	VicForests
Even-aged	Central Gippsland	Noojee	457-508-0003	No	AAS	CFE	37.17	30.13	VicForests
Even-aged	Central Gippsland	Noojee	458-506-0006	No	MAS	CFE	34.08	8.06	VicForests
Even-aged	Central Gippsland	Noojee	459-504-0013	No	SHG	RRH	21.29	6.41	VicForests
Even-aged	Central Gippsland	Noojee	460-505-0008	No	MMS	STR	38.73	17.56	VicForests
Even-aged	Central Gippsland	Noojee	460-512-0004	No	MMS	STR	31.98	21.25	VicForests
Even-aged	Central Gippsland	Noojee	461-502-0004	No	FMS	STR	17.91	14.1	VicForests
Even-aged	Central Gippsland	Noojee	461-510-0013	No	SHG	CFE	40.38	24.93	VicForests
Even-aged	Central Gippsland	Noojee	461-516-0003	No	MMS	STR	35.92	25.45	VicForests
Even-aged	Central Gippsland	Noojee	462-507-0023	No	FMS	CFE	36.89	26.08	VicForests
Even-aged	Central Gippsland	Noojee	464-502-0002	No	MAS	CFE	41.03	18.76	VicForests
Even-aged	Central Gippsland	Noojee	464-504-0006	No	FMS	STR	44.42	30.7	VicForests
Even-aged	Central Gippsland	Noojee	467-504-0006	No	FMS	STR	38.97	20.26	VicForests

Even-aged	Central Gippsland	Noojee	469-501-0004	No	FMS	STR	43.3	22.83	VicForests
Even-aged	Central Gippsland	Erica	479-502-0001	No	MMS	STR	47.78	32.33	VicForests
Even-aged	Central Gippsland	Erica	480-504-0026	No	MAS	CFE	35.82	17.55	VicForests
Even-aged	Central Gippsland	Erica	480-505-0010	No	MAS	CFE	19.98	14.29	VicForests
Even-aged	Central Gippsland	Erica	480-505-0011	No	MMS	CFE	23.6	9.16	VicForests
Even-aged	Central Gippsland	Erica	480-505-0014	No	MMS	CFE	20.41	11.74	VicForests
Even-aged	Central Gippsland	Erica	482-501-0052	No	FMS	STR	40.25	13.69	VicForests
Even-aged	Central Gippsland	Erica	497-501-0001	No	FMS	STR	29.12	19.25	VicForests
Even-aged	Central Gippsland	Erica	497-501-0003	No	FMS	STR	20.22	12.37	VicForests
Even-aged	Tambo	Swifts Creek	711-504-0007	No	AAS	CFE	25.7	7.86	VicForests
Even-aged	Tambo	Swifts Creek	711-504-0008	No	AAS	CFE	36.89	20.09	VicForests
Even-aged	Tambo	Bairnsdale	737-502-0002	No	CMS	STR	27.66	14.48	VicForests
[No survey]	Tambo	Bairnsdale	739-509-0009	Yes	FMS	RDI	10.47		VicForests
Even-aged	Tambo	Swifts Creek	749-501-0005	No	AAS	CFE	28.78	19.44	VicForests
Even-aged	Tambo	Swifts Creek	749-501-0006	No	AAS	CFE	37.12	22.25	VicForests
Even-aged	Tambo	Swifts Creek	749-501-0007	No	AAS	CFE	29.7	11.32	VicForests
Even-aged	Tambo	Swifts Creek	763-506-0007	No	AAS	CFE	16.47	7.7	VicForests
Even-aged	Tambo	Swifts Creek	764-506-0002	No	AAS	CFE	25.77	12.96	VicForests
Even-aged	Tambo	Swifts Creek	765-501-0010	No	AAS	CFE	16.78	13.94	VicForests
Even-aged	Tambo	Swifts Creek	765-504-0005	No	AAS	CFE	10.23	5.94	VicForests
Even-aged	Tambo	Swifts Creek	765-510-0001	No	AAS	CFE	47.58	24.01	VicForests
Even-aged	Tambo	Swifts Creek	765-510-0005	No	AAS	CFE	24.48	8.18	VicForests
[No survey]	Tambo	Swifts Creek	765-510-0007	Yes	AAS	RDC	6.47	1.82	VicForests
Even-aged	Tambo	Swifts Creek	765-522-0007	No	AAS	CFE	25.4	13.45	VicForests
Even-aged	Tambo	Swifts Creek	765-529-0016	No	AAS	CFE	39.72	7.24	VicForests
Even-aged	Tambo	Swifts Creek	766-502-0001	No	AAS	CFE	16.19	11.97	VicForests
Even-aged	Tambo	Swifts Creek	770-507-0001	No	AAS	CFE	37.31	17.14	VicForests
Even-aged	Tambo	Swifts Creek	771-507-0001	No	AAS	CFE	32.8	19.3	VicForests
Even-aged	Tambo	Swifts Creek	773-501-0008	No	AAS	CFE	36.77	31.95	VicForests
Even-aged	Tambo	Swifts Creek	773-501-0022	No	AAS	CFE	24.8	20.61	VicForests
Even-aged	East Gippsland	Nowa Nowa	803-506-0004	No	CMS	STR	37.27	16.33	VicForests
Even-aged	East Gippsland	Nowa Nowa	814-504-0003	No	MMS	STR	37.37	23	VicForests
Even-aged	East Gippsland	Nowa Nowa	817-501-0013	No	AAS	STR	23.73	16.31	VicForests

Even-aged	East Gippsland	Nowa Nowa	817-501-0014	No	AAS	STR	30.32	18.31	VicForests
Even-aged	East Gippsland	Nowa Nowa	817-511-0003	No	AAS	CFE	18.28	12.81	VicForests
Even-aged	East Gippsland	Orbost	827-501-0020	No	FMS	STR	39.89	9.9	VicForests
Even-aged	East Gippsland	Orbost	827-515-0006	No	FMS	STR	35.23	11.44	VicForests
Thinning	East Gippsland	Orbost	830-510-0004	No	MMS	THB	12.72	0.51	VicForests
Even-aged	East Gippsland	Orbost	830-510-0006	No	FMS	STR	35.91	4.29	VicForests
Even-aged	East Gippsland	Orbost	830-510-0008	No	FMS	STR	40.37	16.37	VicForests
Even-aged	East Gippsland	Orbost	830-511-0022	No	FMS	STR	40.37	16.05	VicForests
Even-aged	East Gippsland	Orbost	830-511-0024	No	FMS	STR	31.34	23.82	VicForests
Even-aged	East Gippsland	Orbost	830-515-0012	No	FMS	STR	27.95	17.23	VicForests
Even-aged	East Gippsland	Orbost	831-507-0014	No	FMS	STR	22.71	14.85	VicForests
Even-aged	East Gippsland	Orbost	831-507-0015	No	FMS	STR	46.56	20.73	VicForests
Even-aged	East Gippsland	Orbost	832-501-0017	No	FMS	STR	40.47	24.35	VicForests
Even-aged	East Gippsland	Orbost	832-501-0030	No	FMS	STR	22.68	9.96	VicForests
Even-aged	East Gippsland	Orbost	832-501-0031	No	FMS	STR	18.18	10.66	VicForests
Even-aged	East Gippsland	Orbost	832-501-0035	No	FMS	STR	9.36	5.66	VicForests
Even-aged	East Gippsland	Orbost	833-508-0015	No	FMS	STR	29.49	15.75	VicForests
Even-aged	East Gippsland	Orbost	834-506-0009	No	CMS	STR	25.04	13.38	VicForests
Even-aged	East Gippsland	Orbost	834-506-0010	No	CMS	STR	34.11	22.53	VicForests
Even-aged	East Gippsland	Orbost	834-506-0011	No	CMS	STR	27.48	18.02	VicForests
Even-aged	East Gippsland	Orbost	834-506-0012	No	CMS	STR	30.04	16.93	VicForests
Even-aged	East Gippsland	Orbost	842-503-0004	No	FMS	STR	43.04	2.44	VicForests
Even-aged	East Gippsland	Orbost	842-508-0020	No	FMS	STR	37.76	15.32	VicForests
Even-aged	East Gippsland	Cann River	864-505-0011	No	FMS	STR	39.29	16.36	VicForests
Even-aged	East Gippsland	Cann River	871-506-0002	No	FMS	STR	51.03	18.48	VicForests
Thinning	East Gippsland	Cann River	874-501-0011	No	FMS	THB	88.06	20.29	VicForests
Thinning	East Gippsland	Cann River	874-501-0012	No	FMS	THB	92.06	19.12	VicForests
Thinning	East Gippsland	Cann River	874-506-0003	No	FMS	THB	86.04	36.34	VicForests
Thinning	East Gippsland	Cann River	874-506-0013	No	FMS	THB	46.76	25.01	VicForests
Even-aged	East Gippsland	Cann River	874-509-0001	No	FMS	STR	19.58	13.82	VicForests
Even-aged	East Gippsland	Cann River	885-511-0018	No	MMS	STR	30.21	20.39	VicForests
Even-aged	East Gippsland	Cann River	885-513-0019	No	MMS	STR	19.58	16.7	VicForests
Even-aged	East Gippsland	Cann River	885-515-0003	No	MMS	STR	44.8	16.76	VicForests

Even-aged	East Gippsland	Cann River	886-501-0007	No	MMS	STR	10.83	9.44	VicForests
Even-aged	East Gippsland	Cann River	886-504-0020	No	MMS	STR	40.58	25.33	VicForests
Even-aged	East Gippsland	Cann River	888-502-0011	No	MMS	CFE	24.77	20.62	VicForests
Even-aged	East Gippsland	Bendoc	891-516-0028	No	MMS	STR	35.17	14.5	VicForests
Even-aged	East Gippsland	Bendoc	892-508-0006	No	MMS	STR	29.87	21.84	VicForests
Even-aged	East Gippsland	Bendoc	892-517-0009	No	AMS	STR	40.93	22.98	VicForests
Even-aged	East Gippsland	Bendoc	892-517-0010	No	MMS	STR	26.02	2.56	VicForests
Even-aged	East Gippsland	Bendoc	892-519-0001	No	MMS	CFE	47.44	9.29	VicForests
Even-aged	East Gippsland	Bendoc	892-519-0013	No	MMS	CFE	27.69	7.16	VicForests
Even-aged	East Gippsland	Bendoc	894-505-0001	No	MMS	STR	42.12	25.16	VicForests
Even-aged	East Gippsland	Bendoc	894-505-0002	No	MMS	STR	39.38	37.48	VicForests
Even-aged	East Gippsland	Bendoc	894-505-0003	No	MMS	STR	15.86	11.45	VicForests
Even-aged	East Gippsland	Bendoc	894-507-0001	No	MMS	STR	40.2	8.21	VicForests
Even-aged	East Gippsland	Bendoc	894-507-0007	No	MMS	STR	32.96	15.32	VicForests
Even-aged	East Gippsland	Bendoc	895-512-0003	No	MMS	STR	18.47	15.92	VicForests





# Annual Harvesting and Regeneration Report 2017/18

**2013/14 to 2017/18  
Final Report**

September 2018

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## Introduction and Summary

The Annual Harvesting and Regeneration Report has been developed by VicForests to demonstrate to the Secretary of the Department of Economic Development, Jobs, Transport and Resources (DEDJTR) how VicForests has met its obligations under section 15 of the *Sustainable Forests (Timber) Act 2004*, whereby VicForests must carry out its functions in accordance with the Allocation Order.

The Allocation Order (AO) is made by the Minister for Agriculture under Part 3 of the *Sustainable Forests (Timber) Act 2004*.

The objectives of an AO are to:

- Allocate specified timber resources in State forests to VicForests for the purposes of harvesting and selling, or harvesting or selling timber resources;
- Permit VicForests to undertake associated management activities in relation to that allocated timber and in the areas to which the order applies (e.g. construction of access roads, regeneration activities, thinning and monitoring); and
- Specify relevant conditions and limitations (e.g. minimum planning and reporting requirements, and the maximum five-year harvest area limits)

The current AO is the Allocation (Amendment) Order 2014, published in the Victorian Government Gazette No S 405 on 30 October 2014, which updated provisions set out in the Allocation Order 2013. The Allocation Order 2013 replaced the Allocation to VicForests Order 2004 which covered the period 1 August 2004 to 31 September 2013.

This report specifically addresses Clause 18 of the Allocation (Amendment) Order 2014, whereby VicForests must submit an annual report to the Secretary of DEDJTR by September 30 each year, describing the area of timber harvested and regeneration results of the preceding financial year for Ash and Mixed Species forest stand types. The report must also include data demonstrating how VicForests is complying with the AO 5-year harvest area limit (as shown in item 3 of Table 1, of the Allocation (Amendment) Order 2014).

The 2017/18 report represents the fifth and final year of the annual process to report the area of harvest, regeneration results and to demonstrate compliance with the 5-year harvest limits imposed by the Allocation (Amendment) Order 2014. In addition to these requirements, VicForests has included an annual summary of other authorised activities undertaken in 2017/18.

In 2017/18, VicForests commenced harvesting in 236 Timber Release Plan (TRP) coupes (excludes roadline improvement and roadline construction coupes), attributing a further 1,988 hectares of AO Gross Coupe Area to the Ash forest type and a further 3,638 hectares of the AO Gross Coupe Area to Mixed Species forest type from their respective 5-year area limits.

In total, VicForests has harvested 80% of the Ash Forest 5-year area limit and 20% of the Mixed Species Forest 5-year area limit. These figures are below the maximum 5-year harvesting limits in the fifth and final year of this 5-year period and hence demonstrate VicForests' compliance with the current Allocation Order.

VicForests 2017/18 season also comprised a net harvest from TRP coupes of 702 hectares from Clear-felling, 1,989 hectares from Seed-tree and 354 hectares from Regrowth Retention. A total of 135 hectares comprised solely of stand tending activities such as thinning or single-tree selection silviculture.

In undertaking our annual regeneration responsibilities, VicForests proposed for finalisation a further 5,065 hectares of gross coupe area, comprising 146 coupes assessed as being successfully regenerated or otherwise stocked.



Chief Executive Officer, VicForests

## Objectives

The objectives of the VicForests Annual Harvesting and Regeneration Report are to provide information on:

1. VicForests' area harvested in 2017/18;
2. VicForests' compliance with the Allocation Order 5-year harvest limits;
3. VicForests' regeneration results for 2017/18; and
4. A summary of VicForests' other authorised activities undertaken in 2017/18.

## Area of Timber Harvested

Two types of area harvested results will be reported; they are the AO Gross Coupe Area and the Net Harvest Area.

### 1.1 AO Gross Coupe Area

The AO Gross Coupe Area is the total coupe area (a gross area) of a coupe where timber harvesting has commenced in that coupe, reported by the year harvesting first commenced relative to the 5-year AO period.

The AO Gross Coupe Area is the area measurement that is used for comparison with the five-year harvest area limits listed in the AO. The five year harvest limit period is from 2013/14 to 2017/18.

The AO Gross Coupe Area result includes both harvested and un-harvested areas. The area not harvested will contain areas potentially available for timber harvest and areas unavailable for harvest – usually because of *Code of Practice for Timber Production 2014* exclusions or reserves created by VicForests.

This AO Gross Coupe Area is classified into either Ash or Mixed Species forest stand types to identify what proportion of the coupes have been tallied against each of the 5-year harvest area limits.

Table 1 indicates that at the end of the 2017/18 financial year, a total of xxx hectares had been attributed to the Ash Forest 5-year area limit and xxx hectares was attributed to the Mixed Species 5-year area limit. Figure 1 demonstrates VicForests' compliance with the 5-year limits is being monitored.

Table 1 2017/18 AO Gross Coupe Area and five-year harvest limit by forest stand type

Forest Stand Type	AO Five-year harvest limit (Hectares)	2013/14 AO Coupe Area (Hectares)	2014/15 AO Coupe Area (Hectares)	2015/16 AO Coupe Area (Hectares)	2016/17 AO Coupe Area (Hectares)	2017/18 AO Coupe Area (Hectares)	Cumulative AO Area (Period 2013-2018) (Hectares)	% AO 5-Year Harvest Limit Utilised
Ash	14,200	2,090	2,273	2,583	2,386	1,988	11,319	80%
Mixed Species	70,000	2,034	2,820	2,847	3,003	3,638	14,344	20%
<b>Notes:</b>								
The area of harvest operations to be included in the comparison with the five-year area limits in the AO are; clear-fell, clear-fell salvage, seed tree (includes retained over-wood), regrowth retention harvesting and uneven-aged silviculture methods.								
Thinning type harvesting is considered tending operations and are not included in this comparison with the AO five-year harvest limits as specified in Clause 11 of the Allocation Order 2013.								
The total area of a coupe is tallied towards the five-year area limits in the Allocation Order when harvesting first commences in that coupe. Where timber harvesting occurs over more than one year or over more than one 5-year period of the AO, the AO Coupe Area will be tallied to the first year and first period in which harvesting first commenced.								
The forest stand type has been determined using the spatial file "Working_forest_area_2013.shp", as supplied to VicForests.								





Figure 1. VicForests AO Compliance Monitoring Chart (Mixed Species 5-year limit not shown).

## 1.2 Net Harvest Area

To provide a comparison with the AO Coupe Area, the actual harvest area (the net area), will also be reported. This is the area harvested using each silviculture system reported (excluding stand tending activities) in VicForests' annual Sustainability Report, broken down into Ash and Mixed Species forest stand types.

The net areas harvested by these silviculture systems will lead to a requirement for the harvested area to be regenerated as the majority of trees are removed from the site.

Table 2 outlines the area of timber harvesting undertaken by VicForests during the 2017/18 year, by silviculture system and by forest stand type.

Table 2 2017/18 Net Harvest Area (ha) by silviculture system and forest stand type

Forest Stand Type	Clear felling	Seed-Tree	Regrowth Retention Harvesting	TOTALS
Ash	575.0	20.1	343.8	938.9
Mixed Species	127.0	1,969.3	9.7	2,106.0
<b>TOTALS</b>	<b>702.0</b>	<b>1,989.4</b>	<b>353.5</b>	<b>3,044.9</b>
<b>Notes:</b>				
This data is sourced from VicForests 2017-18 Harvesting History Shapefile – supplied as attachment 1 with this submission.				

## Annual Regeneration Results

Successful regeneration of a coupe is termed 'coupe finalisation' and can only be demonstrated when the entire net harvested area of a coupe has been adequately re-stocked with seedlings, usually established by sowing seed after the completion of a regeneration burn.

The annual regeneration program consists of preparing sites where timber harvesting has occurred (site preparation), the establishment of eucalypt seedlings across the net harvested areas (site establishment) and a series of seedling stocking surveys to measure regeneration success.



Coupes that have been surveyed and demonstrated to have adequate stocking of the eucalypt species that were present prior to timber harvesting are then nominated for coupe finalisation. Coupes nominated during 2017/18 are shown in Table 3.

## 2.1 Coupes Nominated for Coupe Finalisation

Table 3 VicForests' coupes nominated for finalisation during 2017/18.

Coupe Types	Even-Aged Coupes	Thinning Coupes	Roadline Coupes	TOTALS
Number of Coupes Finalised	139	5	2	146
Gross Coupe Area Finalised (ha)	4,722	326	17	5,065
Net Area Harvested and Finalised (ha)	2,535	101	2	2,638

Additional information on coupes which VicForests has nominated for finalisation in 2017/18 has been supplied in attachment 2 - *VicForests 2017-18 Coupe Finalisation list*.

## Other Authorised Activities

This section outlines associated management activities undertaken by VicForests during the 2017/18 year as authorised within Clause 10 of the Allocation Order 2013, which includes activities such as seed collection and stand-tending.

### 3.1 Seed Collection

Seed collection is undertaken annually to maintain adequate seed-stock to facilitate future site establishment of harvested areas.

Table 4 shows the amount of seed collected by VicForests during the 2017/18 year by forest type and method of collection.

Table 4 Seed collection by species group completed by VicForests during 2017/18.

Forest Stand Type	Seed Collection Amount (Kilograms)		
	Ground Collection	Climbing	Total
Ash Species	84.0	28.6	112.6
Mixed Species	1,177.7	113.3	1,291.0
<b>TOTAL</b>	<b>1,261.7</b>	<b>141.9</b>	<b>1,403.6</b>
<b>Notes:</b>			
The data in this table is sourced from VicForests' Seed-bank database.			
All figures are in kilograms.			
Ash species includes Alpine Ash, Mountain Ash and Shining Gum. All other species are considered as mixed species.			

### 3.2 Stand Tending

Forest stand tending incorporates activity undertaken to manage or manipulate a forest stand while continuing to let the stand grow. Table 5 shows the net areas of stand tending activity undertaken by VicForests during the 2017/18 year.

Table 5 The area (ha) of stand tending activities by forest stand type undertaken in 2017/18.

Forest Stand Type	Thinning from Above	Thinning from Below	Single-Tree Selection	TOTALS
Ash	-	-	-	-
Mixed Species	-	82.0	53.4	135.4
<b>TOTALS</b>		<b>82.0</b>	<b>53.4</b>	<b>135.4</b>
<b>Notes:</b>				
<i>The data in this table is sourced from VicForests' 2017-18 Harvesting History Shapefile, which is included with this submission.</i>				

## Corrections to previous VicForests' Annual Harvesting and Regeneration Reports

VicForests' has identified some immaterial errors within previous harvesting history year data that will not affect VicForests' reported compliance with the Allocation Order area limits. These errors will be amended and the updated data will be provided to the Secretary of the Department of Economic Development, Jobs, Transport and Resources when completed.

## Attachments

The following attachments also form part of VicForests' Annual Harvesting and Regeneration Report (as previously indicated):

1. VicForests' 2017-18 Harvesting History Shapefile, including the following components:
  - a. VF\_Harvesting\_History\_201718.dbf
  - b. VF\_Harvesting\_History\_201718.prj
  - c. VF\_Harvesting\_History\_201718.sbn
  - d. VF\_Harvesting\_History\_201718.sbx
  - e. VF\_Harvesting\_History\_201718.shp
  - f. VF\_Harvesting\_History\_201718.xml
  - g. VF\_Harvesting\_History\_201718.shx
2. VicForests' 2017-18 Coupe Finalisation List

**(DELWP)**

---

**From:** GECO East Gippsland <geco@geco.org.au>  
**Sent:** Sunday, 3 November 2019 1:16 PM  
**To:** Forest Reports (DELWP); vfs.admin@vicforests.com.au; [REDACTED] (DELWP); Office of the conservation regulator (DELWP); [REDACTED] (DELWP)  
**Subject:** Failed regeneration Mt Delusion  
**Attachments:** 191102\_Final\_Failed Regeneration\_compressed (1).pdf  
**Categories:** [SharePoint] This message was saved in 'RS Statewide Compliance Support Group > Forest Reports Management (S)', [SharePoint] This message was saved in 'RS Statewide Compliance Support Group > Timber Harvesting Compliance - Investigations (S)'

To DELWP and VicForests,

Please see the attached report regarding extensive areas of failed regeneration at Mt. Delusion in East Gippsland. VicForests has breached the conditions of the Allocation Order and the SFT Act and removed several coupes from the TRP that have failed to meet minimum regeneration standards as specified in the Management Standards and Procedures.

We strongly urge the OCR and timber compliance unit to take appropriate regulatory action. Recommendations to DELWP and VicForests are made in the report.

Regards

[REDACTED]

--

Goongerah Environment Centre(GECO)

Office: [REDACTED]

Mobile: [REDACTED]

W:  
[www.geco.org.au](http://www.geco.org.au)

Fb:  
<https://www.facebook.com/GECOEastGippsland/>

Tw:  
<https://twitter.com/eastgippyforest>

To support our work: <http://www.geco.org.au/donate>

*We live and work on the lands of the Gunaikurnai and Bidjell and Monero people. We acknowledge the thousands of years of their ongoing custodianship of the land and pay respect to elders past and present.*



## FAILED REGENERATION AT MT. DELUSION AREA, EAST GIPPSLAND

### REPORT BY GOONGERAH ENVIRONMENT CENTRE, NOVEMBER 2019

Logging coupes in the Mt Delusion area were inspected in the month of October 2019. Several coupes that were logged by VicForests between the years of 2010 and 2017 were observed to be failing to regenerate. Seven of these coupes had been removed from VicForests Timber Release Plan in April 2019 despite failed regeneration works.

This report provides evidence that VicForests has removed at least seven coupes from the TRP in April 2019 that have failed to regenerate, in non compliance with the conditions of the Allocation Order and in breach of the Sustainable Timber (Forests) Act 2014. Evidence of a number of other coupes that remain on VicForests TRP where regeneration works have failed is provided below and questions are raised over whether VicForests' forest management activities can ensure successful regeneration of mature forest currently being logging in the 'Duped' 770-507-0016 coupe and the 'Bucket Mouth' 771-507-0022 coupe, where significant numbers of threatened Greater Gliders were recently report to VicForests and DELWP.

#### REGENERATION REQUIREMENTS:

The following is an excerpt from the Agriculture Victoria website (DJPR)<sup>2</sup>

##### Post harvest regeneration

*Under Part 5 of the Sustainable Forests (Timber) Act 2004 (the Act), VicForests must prepare a TRP in relation to the Allocation Order for undertaking management activities associated with timber harvesting including forest regeneration. TRPs must also be consistent with the Allocation Order and any relevant Code of Practice related to timber harvesting.*

*The Code of Practice for Timber Production 2014 specifies that harvested areas of native forest must be successfully regenerated. The minimum regeneration standards are outlined the Management Standards and Procedures for timber harvesting operations in Victoria's State Forest 2014. **When VicForests has measured that a coupe has successfully regenerated, that coupe can be removed from the TRP.***

*Clause 18 of the Allocation Order states that VicForests must submit an annual report to the Secretary to DJPR by 30 September each year describing the area of timber harvested and regeneration results for the preceding financial year for ash and mixed species forest stand types. DJPR will continue to monitor VicForests' regeneration results.*

<sup>1</sup> <https://faunaandfloraresearchcollective.files.wordpress.com/2019/10/191018-new-rush-creek-mount-delusion-771-507-0022-greater-glider-detections-etc-ffrc.pdf>

<sup>2</sup> <http://agriculture.vic.gov.au/agriculture/forestry/timber-allocation-order>

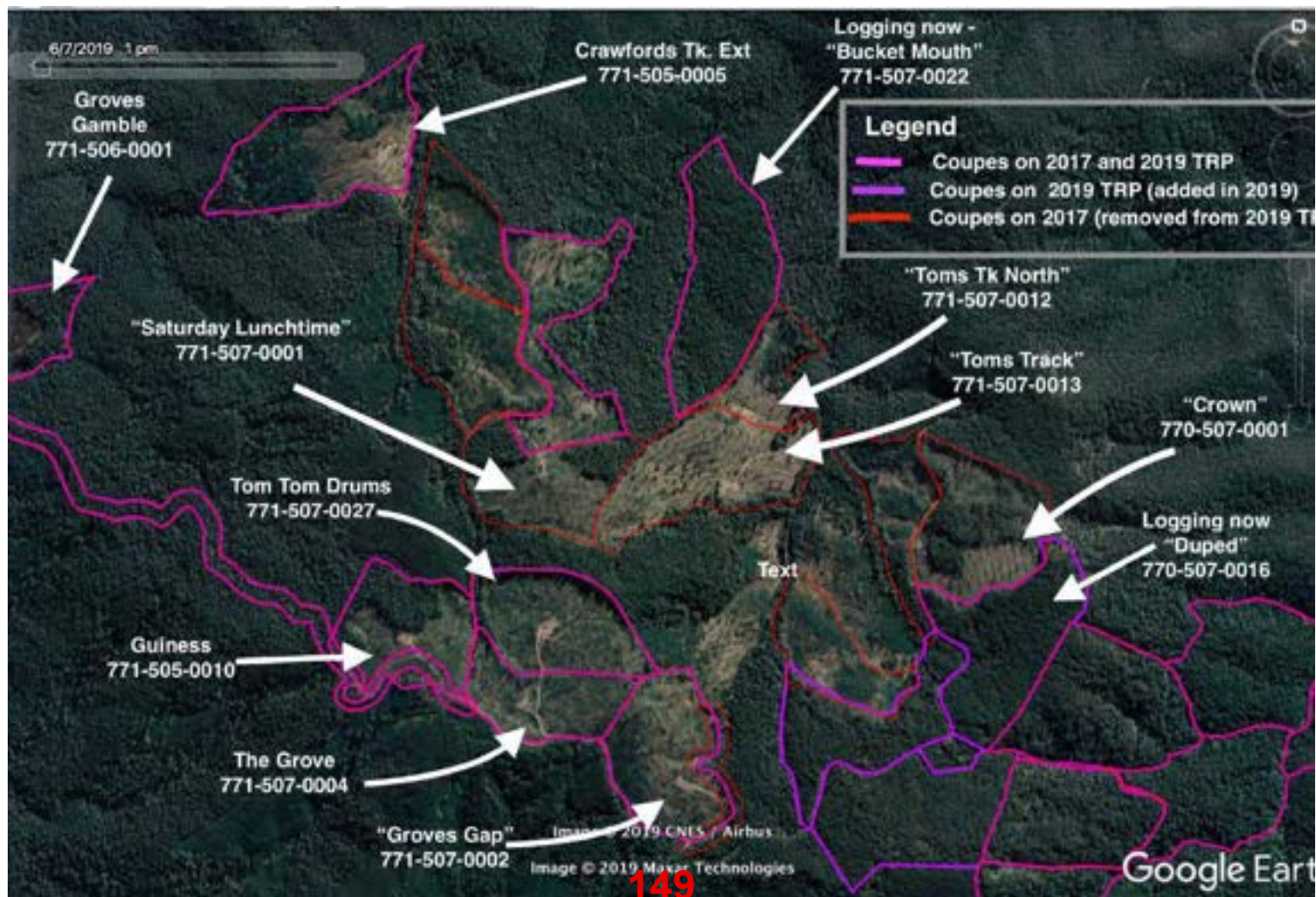
The evidence presented below shows that at least three coupes have been removed from the TRP that have not met the minimum regenerations standards outlined in the Management Standards and Procedures.

## FAILED REGENERATION COUPES REMOVED FROM TRP

In April 2019 VicForests removed at least seven coupes in the Mt Delusion from the TRP that have clearly failed to regenerate. This appears to be a breach of the conditions of the Allocation Order and therefore a breach of Sustainable Forests (Timber Act).

These coupes are Saturday Lunchtime 771-507-0001, Toms Tk North 771-507-0012, Toms Track 771-507-0013 and Crown 770-507-0001, Paspalum 773-501-0022, Buffalo Grass 773-501-0008 and The Farm 722-504-0005. Additionally, New Rush Clearfell 771-507- 0014 (logged in 2011) has also failed to regenerate and was removed from the TRP some years ago.

**FIGURE 1:** Overview of Mt Delusion coupes with failed regeneration coupes (See ages on page 9 for coupes Paspalum 773-501-0022, Buffalo Grass 773-501-0008 and The Farm 722-504-0005.





### SATURDAY LUNCHTIME 771-507-0001:

This coupe was Alpine Ash forest. It was logged January 2016 and removed from the TRP in April 2019. Satellite imagery indicates this coupe has failed to regenerate and on ground site inspections confirmed this.

This coupe is contiguous with “Toms Track” and “Toms Track North” coupes that have also been removed from the TRP, see overview image above. Together these coupes form an area of approximately 63 hectares that was Alpine Ash forest and is now dominated by grasses and introduced blackberry.

**PHOTO 1:** ‘Saturday Lunch’ time coupe in October 2019 after removal from TRP, grasses and blackberry are the dominant vegetation





**PHOTO 2 AND 3:** Old growth Alpine Ash stumps, logged in Saturday Lunchtime coupe in 2016





## “TOM’S TRACK NORTH” 771-507-0012

This coupe was Alpine Ash forest, it was logged in 2010 / 2011 and removed from the TRP in 2019. Site inspection clearly showed it has failed to regenerate.

**PHOTO 4 AND 5:** Toms Track North coupe in October 2019





### “TOM’S TRACK” 771-507-0013

This coupe was Alpine Ash forest, it was logged in 2010 / 2011 and removed from the TRP in 2019. Site inspection clearly showed it has failed to regenerate. Grasses and introduced Blackberry is the dominant vegetation.

**PHOTO 6 AND 7:** Toms Track coupe in October 2019



## “CROWN” 770-507-0001 - FAILED REGENERATION

## “DUPED” 770-507-0016 - ACTIVE LOGGING (NOVEMBER 2019)

The Crown coupe was logged in 2016, it was mature Alpine Ash mapped as old growth forest by the Modelled Old Growth 2009 data set. It was removed from the TRP in 2019. Satellite imagery shows this coupe has failed to regenerate. The Crown coupe is directly adjacent to the ‘Duped’ coupe where logging is occurring at the time of writing (November 2019). According to VicForests coupe plan for ‘Duped’ the coupe is being logged with the clearfell silviculture method which is the standard method for harvesting Alpine Ash forests. It is the same method employed in other coupes in the area that have failed to regenerate.

The Duped coupe was added to the TRP in April 2019 when the ‘Crown’ coupe was removed from the TRP. The Duped harvest plan map displayed at Fig 2 shows the harvest boundary on the north west end of the coupe will directly align with the area of failed regeneration in the Crown coupe.

It is the view of our organisation that no further coupes should have been added to TRP in the Mt. Delusion area (Mc Guinness Creek, Strobridge, East Wentworth, Mt Delusion forest blocks) until VicForests can ensure their harvesting will not result in failed regeneration and until they have successfully regenerated all coupes in the area. Additionally, no further logging should occur in coupes already existing on previous iterations of TRPs in this area until these issues are resolved.

A number of high conservation values have been detected within the ‘Duped’ coupe including Powerful Owl, Sooty Owl and Greater Glider and hollow bearing trees that these species rely upon for habitat. The significant extent of failed regeneration in this area has greatly reduced habitat availability for these species yet VicForests continues to log in areas where these species have been found using harvest and regeneration systems that are failing to ensure appropriate regeneration and are demonstrably leading to a significant reduction in habitat for threatened species. VicForests continues to log Alpine Ash forests in this area despite clear evidence that its regeneration systems are failing.

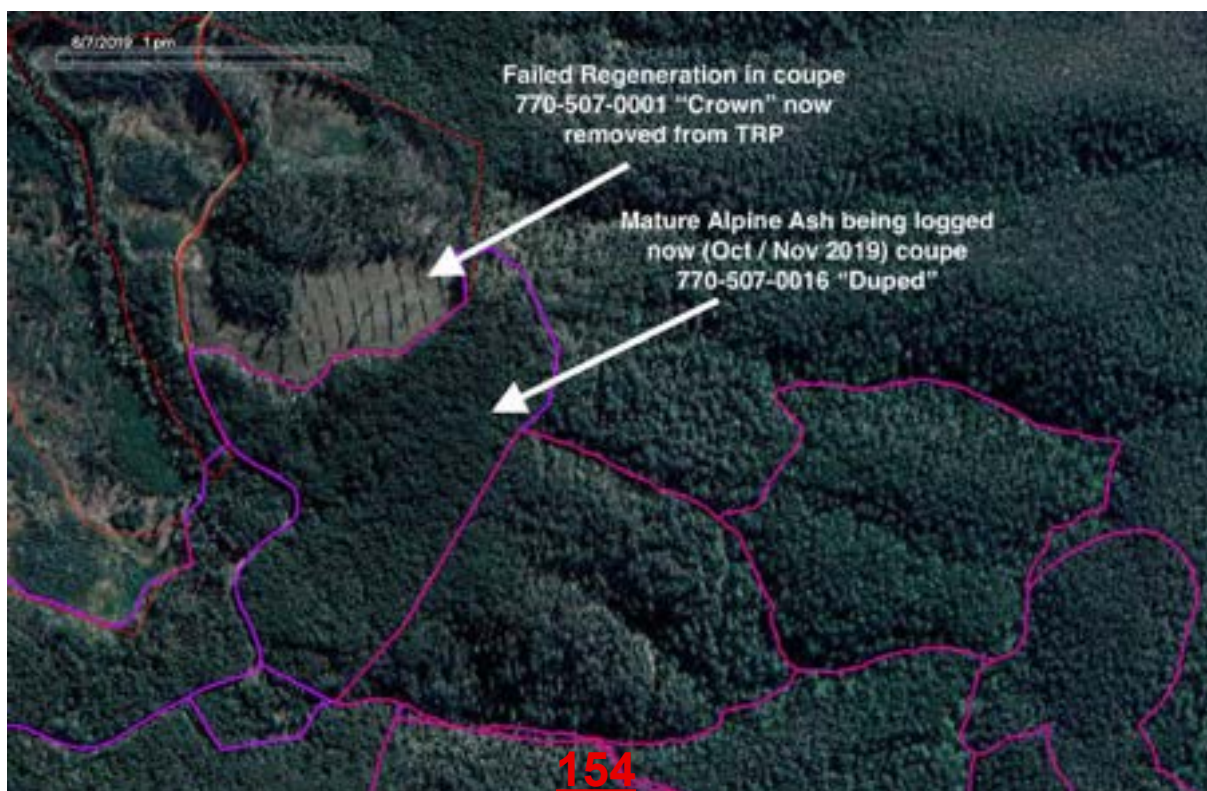
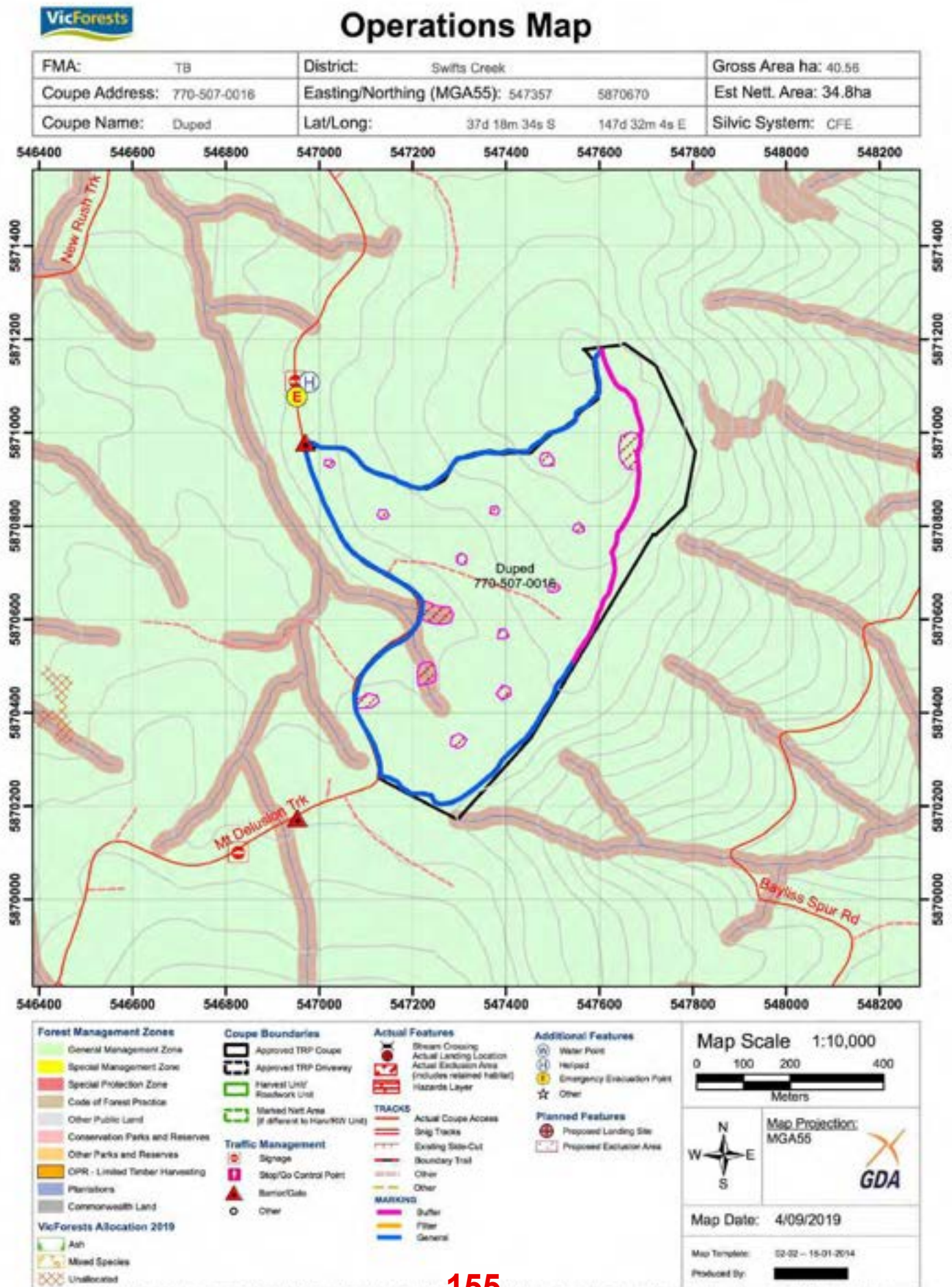




FIGURE 2: VICFORESTS OPERATIONS MAP FOR 'DUPED' COUPE





## PASPALUM 773-501-0022 AND BUFFALO GRASS 773-501-0008

Paspalum coupe was logged in 2015 and Buffalo Grass in mid 2016. Both coupes are failing to regenerate and have now been removed from the TRP



## THE FARM - 722-504-0005

This coupe was logged in 2011 and removed from the TRP in April 2019, it has failed to regenerate, see image below, The Farm coupe is outlined with red.





## COUPES REMAINING ON THE TRP THAT ARE FAILING TO REGENERATE

Several other coupes in the Mt Delusion area are failing to regenerate that remain on VicForests TRP. These are: 771-507-0002 Groves Gap, 771-507-0002 Groves Gamble, The Grove 771-507-0004, Tom Tom Drums's 771-507-0027, Guinness 771-505-0010, Crawfords Tk. Ext. 771-505-0005 and

There does not appear to be any regeneration efforts occurring in these coupes. Based on the recent removal from the TRP of the un regenerated coupes detailed above these coupes may also be removed in breach of the Allocation Order conditions and Sustainable Forests (Timber) Act 2014.

### 771-507-0002 GROVES GAP

This Alpine Ash coupe was logged in 2016 and 2017. The post logging burn has killed almost every retained tree. The area has failed to regenerate and is now dominated by grasses and scattered wattle shrubs.



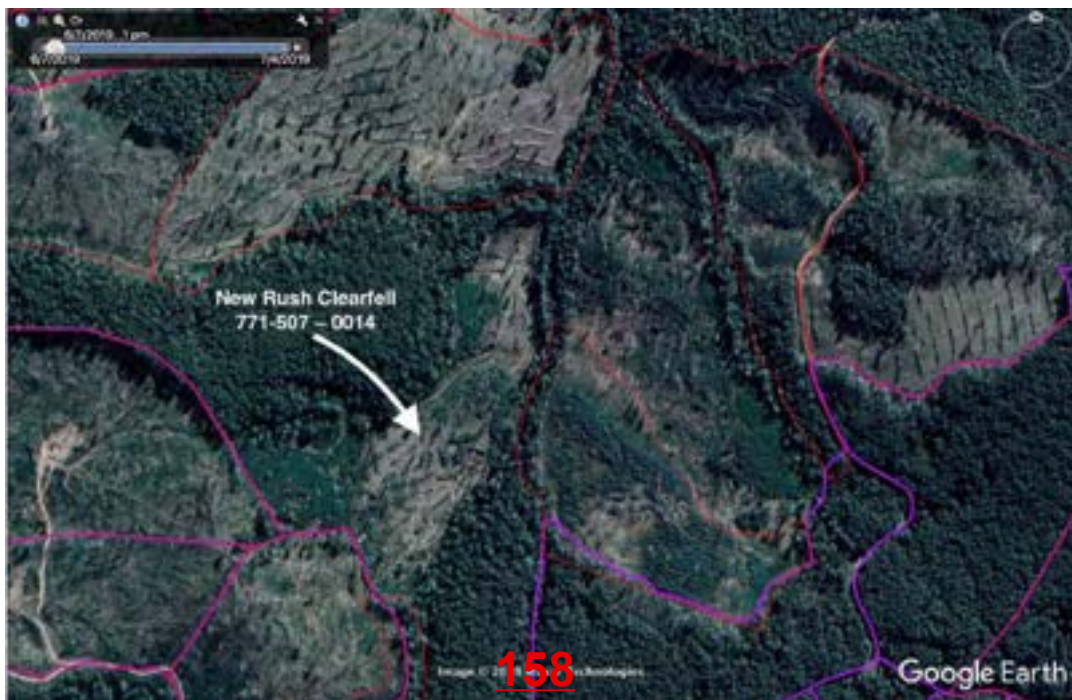
## 771-507-0002 GROVES GAMBLE

This Alpine Ash coupe was logged in mid 2017. The area has failed to regenerate and is now dominated by grasses and bracken.



## NEW RUSH CLEARFELL 771-507- 0014

This Alpine Ash coupe was logged in 2011. The area has failed to regenerate and is now dominated by grasses. This coupe has been removed from the TRP but it is unclear when it was removed.





This report has not detailed the full extent of failed regeneration in the Mt Delusion area, it is critically important that DELWP and DJPR investigate to determine the full extent of failed regeneration. This report focusses on seven coupes that were removed from the TRP in 2019, however it appears the practice of removing coupes that have not regenerated has been occurring for some time.

## **RECOMMENDATIONS:**

Based on the evidence provided in this report that VicForests has removed coupes from its TRP that have failed to regenerate and therefore breached the conditions of the Allocation order and the Sustainable Forests (Timber) Act (2014) we make the following recommendations to DELWP and the Department of Job Precincts and Regions (DJPR).

- Prosecute VicForests for breaching conditions of the Allocation order and STF Act.
- Curtail logging in Mc Guinness Creek forest block, Strobridge forest block, East Wentworth forest block, Mt Delusion forest block and all areas of forest above 1000m altitude where failed regeneration appears to be most common.
- Issue a directive to VicForests pursuant to S70 of the Sustainable Forests (Timber) Act to immediately cease logging in the 'Duped' coupe and 'Bucket Mouth' coupe on the basis that any further impacts to the forests caused by operations in those coupes may be permanent due to the legacy of failed regeneration in the Mt. Delusion / Mc Guinness Creek areas.
- Conduct a state-wide audit of failed regeneration within the VicForests 'working forest areas' allocated to VicForests through the Allocation Order and take appropriate regulatory action against VicForests for any breaches relating to failed regeneration and removal of coupes from TRPs.
- Provide a statement of reasons as to why Saturday Lunchtime 771-507-0001, Toms Tk North 771-507-0012, Toms Track 771-507-0013 and Crown 770-507-0001, Paspalum 773-501-0022, Buffalo Grass 773-501-0008 and The Farm 722-504-0005 coupes were removed from the TRP and details of what oversight DJPR / DELWP had over the removals process.

We also make the following recommendations and requests to VicForests:

- Cease logging in the 'Duped' coupe and 'Bucket Mouth' coupe on the basis that any further impacts to those forests caused by operations in those coupes may be permanent due to the legacy of failed regeneration in the Mt. Delusion / Mc Guinness Creek areas.
- Provide a statement of reasons for why the Saturday Lunchtime 771-507-0001, Toms Tk North 771-507-0012, Toms Track 771-507-0013 and Crown 770-507-0001, Paspalum 773-501-0022, Buffalo Grass 773-501-0008 and The Farm 722-504-0005 were removed from the TRP in April 2019.
- Provide a written explanation as to how High Conservation Values such as Greater Gliders, Yellow Bellied Glider, Masked Owl, Powerful Owl and Sooty Owl will be maintained and not threatened in the Bucket mouth and Duped coupes.
- Place a moratorium on all logging in the Mc Guinness Creek forest block, Strobridge forest block, East Wentworth forest block, Mt Delusion forest block until all areas of failed regeneration are successfully regenerated and silviculture and regeneration systems are reformed so they can demonstrably avoid failed regeneration.

**TIMBER HARVESTING COMPLIANCE  
FOREST REPORT INFORMATION ASSESSMENT FORM**

Forest Report ID	2019-0073
Case Ref (CMS)	24679
Coupe name and address	Saturday Lunchtime (771-507-0001), Toms Tk North (771-507-0012), Toms Track (771-507-0013) and Crown (770-507-0001), Paspalum (773-501-0022), Buffalo Grass (773-501-0008) and The Farm (722-504-0005). Mt Delusion, East Gippsland
Case assessment prepared by	
Date form completed for IAP review	08/11/2019

**AUTHORISED OFFICER TO COMPLETE STEPS 1 – 11**

<b>1. Who is the complainant? (individual(s) name and organisation if applicable)</b>
on behalf of Goongerah Environment Centre (GECO)

<b>2. What is alleged?</b>
<ol style="list-style-type: none"> <li>1. VicForests has removed multiple coupes (listed above) at Mt Delusion, East Gippsland from the TRP despite unsuccessful regeneration.</li> <li>2. The report requests the immediately cease of timber harvesting in 'Duped' and 'Bucket Mouth' coupes based on the above allegation.</li> </ol>

3. Information reliability assessment of complainant			
Source Reliability Scale		Information Accuracy Scale	
A. Completely reliable	<input type="checkbox"/>	1. Report confirmed	<input type="checkbox"/>
B. Usually reliable	<input type="checkbox"/>	2. Probable true report	<input type="checkbox"/>
C. Fairly reliable	<input checked="" type="checkbox"/>	3. Possibly true report	<input checked="" type="checkbox"/>
D. Not usually reliable	<input type="checkbox"/>	4. Doubtful true report	<input type="checkbox"/>
E. Unreliable	<input type="checkbox"/>	5. Improbable report	<input type="checkbox"/>
D. Reliability unknown	<input type="checkbox"/>	6. Truth cannot be judged	<input type="checkbox"/>
Outcome: C3			

4. Has the complainant provided enough information for the Case Officer to determine if the basic elements of a breach / offence can be 'made out'?	
Who	<i>Suspect:</i> VicForests
What	<i>What is the value impacted?</i> e.g. 'Irreversible damage' to Greater Glider habitat triggering PP provision. <ul style="list-style-type: none"><li>State Forest previously listed on the TRP</li></ul>
How	<i>What works created the impact and how were they undertaken</i> e.g. Road construction using bulldozer? <ul style="list-style-type: none"><li>Timber Harvesting Operations and unsuccessful regeneration activities</li></ul>
Why	<i>Why were the works undertaken that has impacted a value?</i> e.g. VF planned THOs to access forest produce. <ul style="list-style-type: none"><li>NA</li></ul>
When & Where	<i>When did the works described in the 'how' occur? Where did the 'what' occur?</i> Saturday Lunchtime (771-507-0001): 2017 TRP, removed from 2019 TRP Toms Tk North (771-507-0012): 2017 TRP, removed from 2019 TRP Toms Track (771-507-0013): 2017 TRP, removed from 2019 TRP Crown (770-507-0001): 2017 TRP, removed from 2019 TRP Paspalum (773-501-0022): 2017 TRP, removed from 2019 TRP Buffalo Grass (773-501-0008): 2017 TRP, removed from 2019 TRP The Farm (722-504-0005): 2017 TRP, removed from 2019 TRP



5. Which allegations are not relevant to timber harvesting or are 'prima facie' compliant and will not be investigated? e.g. Social issues or use of access tracks by other forest users prior to THOs.

Allegation 2: Regeneration practices are a standard process in VicForests timber harvesting operations. THCU has no evidence or reason to believe VicForests will fail to successfully regenerate coupes Duped and Bucket Mouth and will not be requesting the cease of operations.

6. Does the complaint suggest a breach of:	Yes	No
• A Code mandatory action or MSP prescription	<input checked="" type="checkbox"/>	<input type="checkbox"/>
• A relevant law, including SFT Act.	<input checked="" type="checkbox"/>	<input type="checkbox"/>

If one or both of the 'Yes' boxes are marked, complete box below and continue to 7. Desktop assessment.

If both 'No' boxes are marked, complete box below and continue to 7. Desktop assessment.

Code / MSP prescriptions / relevant law (copy and paste prescription / law)

Under Part 5 of the *Sustainable Forests (Timber) Act 2004* (the Act), VicForests must prepare a TRP in relation to the Allocation Order for undertaking management activities associated with timber harvesting including forest regeneration. TRPs must also be consistent with the Allocation Order and any relevant Code of Practice related to timber harvesting.

The *Code of Practice for Timber Production 2014* specifies that harvested areas of native forest must be successfully regenerated. The minimum regeneration standards are outlined the *Management Standards and Procedures for timber harvesting operations in Victoria's State Forest 2014*. When VicForests has measured that a coupe has successfully regenerated, that coupe can be removed from the TRP.

Clause 18 of the Allocation Order states that VicForests must submit an annual report to the Secretary to DJPR by 30 September each year describing the area of timber harvested and regeneration results for the preceding financial year for ash and mixed species forest stand types. DJPR will continue to monitor VicForests' regeneration results.

#### The Code

2.1.1.1 Long-term forest management planning must:

vii. facilitate effective regeneration of harvested forest.

2.3.2.1 The following information must be recorded for all timber harvesting operations in a format that allows for future reference:

ii. regeneration location, method, timing, seed source and final stocking rate

2.5.2.3 Coupe infrastructure must be rehabilitated on completion of timber harvesting operations, where not required for future timber harvesting operations or an approved purpose for which native vegetation is not compatible. Rehabilitation techniques must ensure that suitable soil conditions are provided for the regeneration and growth of vegetation existing on the site prior to harvesting (refer to section 2.6). Progressive rehabilitation of coupe infrastructure during timber harvesting operations must be undertaken where operationally possible.

2.6.1.1 Planning and management of timber harvesting operations must comply with relevant regeneration measures specified within the Management Standards and Procedures.

2.6.1.3 Action must be taken by the managing authority to ensure the successful regeneration of a harvested coupe, except where:

i. the land is to be used for an approved purpose for which native vegetation is not compatible (for example services, public infrastructure and structures); or

ii. timber has been harvested by thinning; or

iii. the naturally occurring regrowth is assessed as sufficient.

2.6.1.5 Regeneration must aim to achieve the approximate canopy floristics that were common to the coupe prior to harvesting, if known.

2.6.1.6 Silvicultural methods for regeneration must suit the ecological requirements of the forest



type, taking into consideration the requirements of sensitive understorey species and local conditions.

2.6.1.7 Harvested coupes must be regenerated as soon as practical, including follow up or remedial action in the event of regeneration failure.

3.1.1.4 The Timber Harvesting Plan must include:

viii. a regeneration program to follow harvesting, where required.

3.4.2.2 Coupe infrastructure must be rehabilitated on completion of timber production, where not required for future timber production, using rehabilitation techniques that provide suitable soil conditions for the regeneration and growth

#### MSPs

2.3.1.1 Forest Coupe Plans prepared for timber harvesting operations must:

(f) describe regeneration procedures to be applied;

9.1.1 Stocking surveys

9.1.1.1 For even-aged stands, conduct stocking surveys 15-30 months after sowing/seed fall or planting.

9.1.1.2 Successfully stocked even-aged regenerating forests must have:

(a) at least 1 acceptable seedling in 65 % of 2.27 m radius (16 m<sup>2</sup>) plots placed on a 20 m by 80 m systematic grid or at least 1 acceptable seedling in at least 55 % of 2.27 m radius (16 m<sup>2</sup>) plots placed on a 20 m by 40 m systematic grid; and

(b) no discrete area greater than 1 ha with less than 400 stems per hectare.

9.1.1.3 For uneven-aged stands conduct stocking surveys 15-36 months after completion of harvesting.

9.1.1.4 Successfully stocked uneven-aged regenerating forests must have in at least 70% of plots placed on a 20 m by 80 m systematic grid or 60 % of plots placed on a 20 m by 40 m systematic grid:

(a) a total basal area of at least 30% of the basal area that the site is capable of supporting, or

(b) at least 1 acceptable sapling (or coppice) in a 3.57 m radius (40 m<sup>2</sup>) plot or at least 1 acceptable sapling (or coppice) in a 3.57 m radius (40 m<sup>2</sup>) plot, or

(c) at least 1 acceptable seedling in a 2.27 m radius (16 m<sup>2</sup>) plot or at least 1 acceptable seedling in a 2.27 m radius (16 m<sup>2</sup>) plot; and

(d) no discrete area greater than 2 ha with less than 400 stems per hectare (caused by recent harvesting).

9.1.1.5 An acceptable seedling is defined as a species indigenous to the area in either a seedling, lignotuber, or coppice form. Seedlings, lignotubers and coppice must be over 40 cm in height for Ash species and over 25 cm in height for non Ash species. For coppice, the stem must be likely to remain attached to the stump and the base of the stem must be within 20 cm of ground level.

9.1.1.6 An acceptable sapling (can be in the coppice form) is defined as a species indigenous to the area that is an acceptable size (3–15 m), is not suppressed and has a vigorous, healthy crown.

9.1.1.7 For both even-aged and uneven-aged silviculture, acceptable species composition for regeneration includes at least 10 acceptable seedling of each eucalypt species present on the site before harvesting.

9.1.1.8 Where stocking, health or early growth is inadequate, remedial work must be conducted as soon as practicable and within 5 years of the previous regeneration attempt to obtain adequate regeneration. Further assessment must be undertaken following remedial treatment to ensure that it has been successfully regenerated.

\*relevant law means an Act (and associated regulations) specified in Schedule 1 to the *Conservation, Forest and Lands Act 1987*.

Is there evidence that information received has been obtained from within a Timber Harvesting Safety Zone?

☐ Yes

☒ No

- Provide basic details and submit an IR to the Intelligence Unit for information only (not for distribution).

**TIMBER HARVESTING COMPLIANCE  
FOREST REPORT INFORMATION ASSESSMENT FORM**

**7. Complete desktop assessment (refer to template ArcMap MXD Project saved on ECM [here](#) or at V:\CSG-Operations\Timber Harvesting\Investigations\AA\_FOLDER\_INVESTIGATIONS\GIS → THCU Template**

Information check	Result			Comment
Does a Timber Harvesting Safety Zone apply to the coupe? <a href="http://www.vicforests.com.au/planning-1/timber-harvesting-safety-zones">http://www.vicforests.com.au/planning-1/timber-harvesting-safety-zones</a>	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>		Commencement date:
Nearest major town	Brookville			
DELWP Region	Gippsland			
DELWP Fire and Land District	Tambo District			
Forest Districts (FORESTS.FORMB100_DISTRICT)	Swifts Creek			
Public Land Status If unclear, seek preliminary advice from Land and Built Environment Officer	Status: State Forest Forest / reserve name: Mt Delusion State Forest			
Regional Forest Agreement (RFA) Area	CH / <b>Gipps</b> / East Gipps / North-east / West Vic			
Forest Management Area	Tambo			
Coupe within the Allocation Order area?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Coupe on current Timber Release Plan?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>		
Forest Management Zones	GMZ <input type="checkbox"/> SMZ <input type="checkbox"/> SPZ <input type="checkbox"/> Other zone:			If SMZ, does an SMZ plan exist? Query respective DELWP Regional Values and Assets Team Leader, and list any relevant prescriptions outlined with respect to forest values
Last logged (for statute)	Date range:			
Forest Protection Survey Program maps and data (link)	Anything known			NA
VBA records (incl. VBA restricted data) – Flora	Record/prescription listed in Code	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Species: NA
	Record listed under FFG	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Species/Listing status:
	Record listed under EPBC	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Action Statement details (if appropriate):
	Record listed on Victorian Threatened Species Advisory List	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Species/Listing status:



VBA records (incl. VBA restricted data) – Fauna	Record/prescription listed in Code		Yes <input type="checkbox"/>		No <input type="checkbox"/>		Species: NA	
	Record listed under FFG		Yes <input type="checkbox"/>		No <input type="checkbox"/>		Species/Listing status:	
							Action Statement details (if appropriate):	
	Record listed under EPBC		Yes <input type="checkbox"/>		No <input type="checkbox"/>		Species/Listing status:	
	Record listed on Victorian Threatened Species Advisory List		Yes <input type="checkbox"/>		No <input type="checkbox"/>		Species/Listing status:	
	Threatened ecological vegetation class (EVC)		EVC listed in Code		Yes <input type="checkbox"/>		No <input type="checkbox"/>	EVC(s): NA
			EVC listed under FFG		Yes <input type="checkbox"/>		No <input type="checkbox"/>	EVC(s):
			EVC listed under EPBC		Yes <input type="checkbox"/>		No <input type="checkbox"/>	EVC(s):
Bioregional Conservation Status of EVC	Endangered <input type="checkbox"/>	Vulnerable <input type="checkbox"/>	Rare <input type="checkbox"/>	Depleted <input type="checkbox"/>	Least Concern <input type="checkbox"/>		EVC(s): NA	
Aboriginal Cultural Heritage	Site within coupe		Yes <input type="checkbox"/>		No <input type="checkbox"/>		Status: NA	
Other Cultural Heritage	Registered site		Yes <input type="checkbox"/>		No <input type="checkbox"/>		Status: NA	
	Inventory site		Yes <input type="checkbox"/>		No <input type="checkbox"/>		Status: NA	
Rainforest – Sites of Significance	National State Regional		1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/>			Details: NA		
Rainforest - FORESTS.RAINFOR25_MURRUNGOWAR	Yes <input type="checkbox"/>		No <input type="checkbox"/>			Details: NA		
Rainforest - FLORAFUNA1.RAINFOR100	Yes <input type="checkbox"/>		No <input type="checkbox"/>			Details: NA		
Rainforest Mapping for the Central Highlands (RAINFOR100_CH)	Yes <input type="checkbox"/>		No <input type="checkbox"/>			Details: NA		
Named waterway in / adjoining coupe	Yes <input type="checkbox"/>		No <input type="checkbox"/>			Name: NA		
Other (i.e. Leadbeater's Possum Habitat, Giant Trees, etc):	Yes <input type="checkbox"/>		No <input type="checkbox"/>			Details: NA		
Steep slopes >20 degrees (assessed via eMap)	Yes <input type="checkbox"/>		No <input type="checkbox"/>			Details: NA		

**TIMBER HARVESTING COMPLIANCE  
FOREST REPORT INFORMATION ASSESSMENT FORM**

<b>8. Have any other potential breaches been identified by the desktop assessment?</b>	
<input type="checkbox"/> <b>Yes – Continue assessment</b>  <ul style="list-style-type: none"> <li>Provide an outline of the potential breach below and add the breach to Section 6. Continue the assessment.</li> </ul>	<input checked="" type="checkbox"/> <b>No</b>  <ul style="list-style-type: none"> <li>If answer at Section 6 was Yes, continue on to Section 9.</li> <li>If answer at Section 6 was No, complete Section 10.</li> </ul>

<b>9. Is sufficient information available to warrant further investigation which may lead to one of the following enforcement outcomes?</b>	
Prosecution - for serious breaches, reckless or negligent actions, requires significant rehabilitation and deterrence.	<input type="checkbox"/>
Enforceable undertaking - requiring rehabilitation and net gain for harm caused.	<input type="checkbox"/>
Infringement notice (where available)	<input type="checkbox"/>
s. 70 directions notice – to prevent environmental harm.	<input checked="" type="checkbox"/>
Warning letter – low level of environmental harm. To give notice behaviour will not be tolerated.	<input checked="" type="checkbox"/>
S. 46 letter – failure to comply with Code but not an offence e.g. failure of planning.	<input type="checkbox"/>
<input checked="" type="checkbox"/> <b>Yes – continue assessment</b>	<input type="checkbox"/> <b>No – go to Section 10</b>

<b>10. Has enough information been provided, and the veracity of complaint considered sufficient to justify seeking further information from the complainant or making other inquiries?</b>	
<input checked="" type="checkbox"/> <b>Yes</b>  <b>Action</b> <ul style="list-style-type: none"> <li>Request information or make inquiries <a href="#">Letter template (reporter)</a> / <a href="#">Letter template (VicForests)</a></li> <li>Advise THIAP that a request has been made and record in CMS.</li> <li>Save this document as a PDF to ECM to preserve this record of action.</li> <li>When additional information has been received, update the Word version of this document as required and forward to IAP for consideration.</li> </ul>	<input type="checkbox"/> <b>No – go to Section 11</b>
<b>Action:</b> <i>e.g. Information requested xx/xx/2019... received xx/xx/2019.</i> <ul style="list-style-type: none"> <li>Request information and documents regarding the assessment of regeneration at coupes listed.</li> <li>Table below provided by VicForests on 15/11/19</li> </ul>	

s35: Confidential

<b>11. Reasons for not initiating an investigation</b>
•
Other possible avenue to address issue raised (if necessary and appropriate)
•
<b>Action</b>
<ul style="list-style-type: none"> <li>Complete letter to notify Forest Reporter case will not be investigated, but OCR continues to monitor VF management actions at the coupe. <a href="#">Link to letter template.</a></li> <li>Forward this form and attachments to IAP for review and Manager THCU approval.</li> </ul>

**SECTIONS 12 & 13 TO BE COMPLETED ONLY WHERE COMPLAINT IS TO BE RECOMMENDED FOR INVESTIGATION**

<b>12. Complete the Priority / Complexity assessment</b> <a href="#">Link to Priority/Complexity matrix</a>
Grading: 2B

<b>13. High level risk assessment (only complete if case to continue)</b> <a href="#">Link to risk consequence table</a>		
Is the case subject to any of the following risks? To be continually assessed during the life of an investigation.		
1. Priority 1 (high) or 2 (moderate) case that unlikely to achieve the investigations identified preferred outcome e.g. prosecution, enforceable undertaking (includes where case has integrity issues).	<input type="checkbox"/>	
2. Case includes issues that are subject to a moderate or higher harm rating as defined by Political/Reputation row (4) in the Priority Matrix (Attachment 1) or refer to full version at Table 3: DELWP Risk – Harm Consequence Table (Attachment 2)	<input type="checkbox"/>	
3. Case is likely to recommend filing of charges (prosecution)	<input type="checkbox"/>	
4. Case is likely to recommend pursuing an enforceable undertaking	<input type="checkbox"/>	
5. Priority 1 (high) or 2 (moderate) case that is within 6 months of statute expiry	<input type="checkbox"/>	
6. Priority 1 (high) or 2 (moderate) case that cannot be adequately resourced by THCU	<input type="checkbox"/>	
7. VicForests self-report.	<input type="checkbox"/>	
Any high-level risks identified?	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Cause of risk:		
<b>Action</b>		
<ul style="list-style-type: none"> <li>Forward this form and attachments to IAP for review and Manager THCU approval.</li> </ul>		



TIMBER HARVESTING INFORMATION ASSESSMENT PANEL TO COMPLETE SECTIONS BELOW

**14. Panel discussion and questions**

Record key discussion points and any questions raised by the panel regarding the assessment of subject information.

- Need to clarify role of DJPR in monitoring regeneration activities. What does DJPR sign off on, what information are they provided and what processes are in place.
- Could potentially explore previous auditing of regeneration activities and any regulatory actions. If failed regeneration is determined to be a recurring risk this could be incorporated into future Forest Audit Programs.
- Lack of expertise on regeneration, THCU to act as facilitator and potentially contract out to Jacobs or others to do assessment based on documents and information THCU have collected.

**15. Decision**

Event not to be investigated	<input type="checkbox"/>
Event to be investigated (continue to investigate as a preliminary investigation in CMS)	<input checked="" type="checkbox"/>
Escalate event for investigation with case management structure (complete preliminary investigation 'event closure', go to 'next steps' and either add new investigation or link to existing investigation).	<input type="checkbox"/>

**16. Response**

Tactical response

THCU to investigate report and other material.

Investigative effort (key steps, resources required and complexity)

- 1) Site visit to all coupes listed at Mt Delusion
- 2) Acquire annual report submitted from VicForests to DJPR
- 3) Acquire SOPs/guidelines for assessment of regeneration
- 4) Clarify the role of DJPR in monitoring regeneration activities

**17. Case to allocated to:**

\_\_\_\_ (Lead)  
\_\_\_\_ (Second)

**Assessment approved by:**

\_\_\_\_  
Manager Timber Harvesting Compliance Unit

Signature:

\_\_\_\_

Date: 25/11/2019

(DELWP)

**From:** [REDACTED] (DEDJTR) [REDACTED] @ecodev.vic.gov.au>  
**Sent:** Tuesday, 17 December 2019 11:11 AM  
**To:** [REDACTED] (DELWP)  
**Cc:** [REDACTED] (DEDJTR)  
**Subject:** FW: Failed Timber Harvesting Coupe Regeneration  
**Attachments:** Attachment 2 - VicForests' 2018-19 Coupe Finalisation List.xlsx

**Categories:** [SharePoint] This message was saved in 'RS Statewide Compliance Support Group > Timber Harvesting Compliance - Investigations (S)'

Hi [REDACTED],

As discussed, please find attached the list of coupes nominated for coupe finalisation in 2018/2019. The full report for the 2018/2019 (to which this list is attached) will be made available once some factual amendments have been made – we are anticipating to get this updated version in January. Our usual process is to brief our Secretary, before then making the report publicly available, however if THCU requires a copy of the corrected report prior to its public release, please get in touch.

Kind regards,

[REDACTED] | Forestry Industry Policy  
Department of Jobs, Precincts and Regions  
Level 15, 1 Spring Street, Melbourne, Victoria Australia 3000  
T: [REDACTED]  
[\[REDACTED\]@ecodev.vic.gov.au](mailto:[REDACTED]@ecodev.vic.gov.au)  
[dipr.vic.gov.au](http://dipr.vic.gov.au)



[Linkedin](#) | [Youtube](#) | [Twitter](#)

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**From:** [REDACTED] (DEDJTR) [REDACTED] @ecodev.vic.gov.au>  
**Sent:** Friday, 6 December 2019 12:19 PM  
**To:** [REDACTED] (DEDJTR) [REDACTED] @ecodev.vic.gov.au>  
**Subject:** FYI | Failed Timber Harvesting Coupe Regeneration

[REDACTED] | Forestry and Game | Rural and Regional Victoria  
Department of Jobs, Precincts and Regions  
Level 15, 1 Spring Street, Melbourne, Victoria 3001  
T: [REDACTED]  
[\[REDACTED\]@ecodev.vic.gov.au](mailto:[REDACTED]@ecodev.vic.gov.au)  
[dipr.vic.gov.au](http://dipr.vic.gov.au)





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From: [REDACTED] (DELWP) <[REDACTED]@delwp.vic.gov.au>  
Sent: Friday, 6 December 2019 12:04 PM  
To: [REDACTED] (DEDJTR) [REDACTED]@ecodev.vic.gov.au>  
Subject: RE: Failed Timber Harvesting Coupe Regeneration

Hi [REDACTED]

Thank you for providing those documents. I have accidentally given you the wrong year. Could you please provide the same documents that were provided in September 2019.

Thanks again for the information and I will contact [REDACTED] shortly.

[REDACTED]

Timber Harvesting Compliance Unit | Office of the Conservation Regulator  
Forest, Fire and Regions | Department of Environment, Land, Water and Planning  
71 Hotham Street, Traralgon, Victoria, 3844  
M: [REDACTED]@delwp.vic.gov.au

delwp.vic.gov.au



Department of  
Environment, Land, Water  
and Planning



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From: [REDACTED] (DEDJTR) [REDACTED]@ecodev.vic.gov.au>  
Sent: Tuesday, 3 December 2019 10:59 AM  
To: [REDACTED] (DELWP) [REDACTED]@delwp.vic.gov.au>  
Cc: [REDACTED] (DEDJTR) [REDACTED]@ecodev.vic.gov.au>  
Subject: RE: Failed Timber Harvesting Coupe Regeneration

Hi [REDACTED]

Thank you for your email of the 27 November 2019 regarding Failed Timber Harvesting Coupe Regeneration.

As requested please find attached the information supplied to the Secretary of the former Department of Economic Development, Transport and Resources (DEDJTR) on the 27 September 2018. This includes the VicForests Annual Harvesting and Regeneration Report 2017-18 and the VicForests' 2017-18 Coupe Finalisation List.

Since 2013 the Department of Jobs, Precincts and Regions (DJPR) has not have a role in the assessment of VicForests' regeneration.

[REDACTED], is the Manager Forest Industry Policy here are her details. For any further information please contact [REDACTED]

[REDACTED] | Forestry Industry Policy  
Department of Jobs, Precincts and Regions  
Level 15, 1 Spring Street, Melbourne, Victoria Australia 3000  
T: [REDACTED]  
[REDACTED]@ecodev.vic.gov.au  
[djpr.vic.gov.au](mailto:djpr.vic.gov.au)



Thank you.

[REDACTED] | Rural and Regional Victoria  
Department of Jobs, Precincts and Regions  
Level 15, 1 Spring Street, Melbourne, Victoria 3001  
T: [REDACTED]  
[REDACTED] [@ecodev.vic.gov.au](mailto:[REDACTED]@ecodev.vic.gov.au)

[djpr.vic.gov.au](http://djpr.vic.gov.au)



[LinkedIn](#) | [YouTube](#) | [Twitter](#)



We acknowledge the traditional Aboriginal owners of country throughout Victoria, their ongoing connection to this land and we pay our respects to their culture and their Elders past, present and future.

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From: [REDACTED] (DELWP) [@delwp.vic.gov.au](mailto:[REDACTED]@delwp.vic.gov.au)>  
Sent: Wednesday, 27 November 2019 2:31 PM  
To: [REDACTED] (DEDJTR) [@ecodev.vic.gov.au](mailto:[REDACTED]@ecodev.vic.gov.au)>  
Subject: Failed Timber Harvesting Coupe Regeneration

Hi [REDACTED]

I'm a Forest and Wildlife Officer in the Timber Harvesting Compliance Unit, I'm doing an investigation into several coupes that have allegedly been unsuccessfully regenerated by VicForests. I have been provided your contact details and I'm hoping you will be able to help me or pass me onto the correct person.

The coupes in question were finalised on the 30/09/2018 and removed from the TRP on the 24/04/2019. I refer to the information below outlined on DJPR's website and I'm hoping you can clarify what the role of DJPR is in monitoring regeneration results? Specifically I would like to know what is provided to DJPR by VicForests, what processes are in place and what does DJPR sign off on? If possible could you also supply a copy of the annual report submitted in 2018.

*The Code of Practice for Timber Production 2014 specifies that harvested areas of native forest must be successfully regenerated. The minimum regeneration standards are outlined in the Management Standards and Procedures for timber harvesting operations in Victoria's State Forest 2014. When VicForests has measured that a coupe has successfully regenerated, that coupe can be removed from the TRP.*

*Clause 18 of the Allocation Order states that VicForests must submit an annual report to the Secretary to DJPR by 30 September each year describing the area of timber harvested and regeneration results for the preceding financial year for ash and mixed species forest stand types. DJPR will continue to monitor VicForests' regeneration results.*

Please let me know if you have any questions.

Kind regards,  
[REDACTED]

Timber Harvesting Compliance Unit | Office of the Conservation Regulator  
Forest, Fire and Regions | Department of Environment, Land, Water and Planning  
71 Hotham Street, Traralgon, Victoria, 3844  
M: [REDACTED] [@delwp.vic.gov.au](mailto:[REDACTED]@delwp.vic.gov.au)

\*\*\*\*\*

Government of Victoria, Victoria, Australia.

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Stand type	FMA	District	Coupe address	Roadline	Forest type	Silvi type	TRP Area	Harvested area	Admin Org
Even-aged	Dandenong	Powelltown	344-509-0009	No	MAS	RRH	11.83	4.28	VicForests
Even-aged	Dandenong	Powelltown	348-515-0004	No	MAS	CFE	26.98	18.35	VicForests
Even-aged	Dandenong	Powelltown	348-518-0003	No	MAS	CFE	23.67	13.85	VicForests
Even-aged	Dandenong	Powelltown	349-502-0013	No	MMS	STR	32.47	17.77	VicForests
Even-aged	Dandenong	Powelltown	349-507-0002	No	MAS	CFE	11.06	8.67	VicForests
Even-aged	Dandenong	Powelltown	349-509-0007	No	MAS	CFE	13.12	8.73	VicForests
Even-aged	Dandenong	Powelltown	349-514-0006	No	MMS	CFE	37.85	25.05	VicForests
Even-aged	Central Gippsland	Noojee	457-501-0001	No	AAS	CFE	50.01	29.41	VicForests
Even-aged	Central Gippsland	Noojee	457-501-0020	No	AAS	CFE	55.21	31.08	VicForests
Even-aged	Central Gippsland	Noojee	457-501-0022	No	AAS	CFE	46.82	24.39	VicForests
Even-aged	Central Gippsland	Noojee	458-508-0010	No	AAS	CFE	45.21	21.05	VicForests
Even-aged	Central Gippsland	Noojee	461-510-0011	No	MAS	CFE	55.89	24.18	VicForests
Even-aged	Central Gippsland	Noojee	461-510-0012	No	SHG	CFE	38.2	19.33	VicForests
Even-aged	Central Gippsland	Noojee	461-510-0014	No	SHG	CFE	35.65	16.68	VicForests
Even-aged	Central Gippsland	Noojee	462-502-0002	No	MMS	STR	25.82	17.43	VicForests
Even-aged	Central Gippsland	Noojee	462-502-0005	No	FMS	STR	48.26	35.45	VicForests
Even-aged	Central Gippsland	Noojee	462-506-0005	No	MAS	CFE	40.37	36.1	VicForests
Even-aged	Central Gippsland	Noojee	462-507-0007	No	FMS	STR	31.01	21.33	VicForests
Even-aged	Central Gippsland	Noojee	462-510-0003	No	FMS	STR	34.64	15.86	VicForests
Even-aged	Central Gippsland	Noojee	462-510-0006	No	MAS	CFE	21.03	12.66	VicForests
Even-aged	Central Gippsland	Noojee	462-512-0015	No	FMS	CFE	23.94	22.98	VicForests
Even-aged	Central Gippsland	Noojee	463-504-0009	No	MAS	CFE	33.75	17.98	VicForests
Even-aged	Central Gippsland	Noojee	463-505-0001	No	MAS	CFE	25.91	14.09	VicForests
Even-aged	Central Gippsland	Noojee	464-504-0003	No	FMS	STR	38.07	25.8	VicForests
Even-aged	Central Gippsland	Noojee	469-501-0006	No	FMS	STR	27.6	19.89	VicForests
Even-aged	Central Gippsland	Noojee	469-502-0003	No	FMS	STR	40.35	36.86	VicForests
Even-aged	Central Gippsland	Erica	483-502-0021	No	FMS	STR	16.77	10.67	VicForests
Even-aged	Central Gippsland	Erica	485-508-0012	No	FMS	STR	46.26	19.71	VicForests
Even-aged	Central Gippsland	Erica	486-501-0002	No	FMS	STR	57.21	18.91	VicForests
Even-aged	Central Gippsland	Erica	492-501-0002	No	SHG	RRH	28.12	9.77	VicForests
Even-aged	Central Gippsland	Erica	492-501-0003	No	AAS	RRH	45.34	12.33	VicForests
Even-aged	Central Gippsland	Erica	492-501-0004	No	AAS	RRH	49.72	8.83	VicForests

Even-aged	Central Gippsland	Heyfield	502-502-0001	No	AAS	RRH	54.85	23.93	VicForests
Even-aged	Central Gippsland	Heyfield	503-501-0001	No	MMS	RRH	18.25	5.29	VicForests
Even-aged	Central Gippsland	Heyfield	503-501-0002	No	AAS	RRH	14.93	8.19	VicForests
Even-aged	Central Gippsland	Heyfield	520-501-0002	No	AAS	RRH	55.89	9.54	VicForests
Even-aged	Central Gippsland	Heyfield	520-501-0003	No	AAS	CFE	57.44	23.16	VicForests
Even-aged	Central Gippsland	Heyfield	520-501-0006	No	AAS	CFE	55.52	1.74	VicForests
Even-aged	Central Gippsland	Heyfield	520-501-0007	No	AAS	CFE	40.2	6.04	VicForests
Even-aged	Central Gippsland	Heyfield	520-501-0008	No	AAS	RRH	35.61	5.47	VicForests
Even-aged	Central Gippsland	Heyfield	520-501-0011	No	AAS	RRH	27.43	3.23	VicForests
Even-aged	Central Gippsland	Heyfield	522-502-0014	No	AAS	RRH	46.84	14.43	VicForests
Even-aged	Dandenong	Powelltown	344-505-0004	No	MMS	CFE	29.15	20.63	VicForests
Even-aged	Dandenong	Powelltown	345-503-0005	No	MAS	RRH	30.45	8.92	VicForests
Even-aged	Dandenong	Powelltown	345-507-0003	No	MAS	CFE		17.07	Shared
Even-aged	Dandenong	Powelltown	347-501-0005	No	MAS	CFE	17.67	11.51	VicForests
Even-aged	Dandenong	Powelltown	347-515-0005	No	MAS	CFE	28.08	21.42	VicForests
Even-aged	Dandenong	Powelltown	348-510-0008	No	MAS	CFE	24.87	14.66	VicForests
Even-aged	Dandenong	Powelltown	348-517-0006	No	MAS	CFE	38.3	28	VicForests
Even-aged	Dandenong	Powelltown	348-517-0007	No	MAS	CFS	30.72	17.91	VicForests
Even-aged	Dandenong	Powelltown	348-537-0005	No	MAS	CFE	9.33	6.25	VicForests
Even-aged	Central Gippsland	Noojee	457-501-0010	No	AAS	CFE	24.21	21.13	VicForests
Even-aged	Central Gippsland	Noojee	458-501-0003	No	AAS	CFE	36.3	20.13	VicForests
Even-aged	Central Gippsland	Noojee	458-508-0008	No	AAS	CFE	30.22	27.21	VicForests
Even-aged	Central Gippsland	Noojee	459-502-0010	No	MAS	CFE	31.08	21.46	VicForests
Even-aged	Central Gippsland	Noojee	460-504-0005	No	FMS	STR	32.47	16.32	VicForests
Even-aged	Central Gippsland	Noojee	461-503-0003	No	FMS	STR	36.45	28.26	VicForests
Even-aged	Central Gippsland	Noojee	461-503-0004	No	FMS	STR	39.04	28.56	VicForests
Even-aged	Central Gippsland	Noojee	461-513-0007	No	SHG	CFE	32.19	13.48	VicForests
Even-aged	Central Gippsland	Noojee	461-513-0017	No	MAS	CFE	47.88	17.17	VicForests
Even-aged	Central Gippsland	Noojee	461-513-0018	No	FMS	CFE	48.59	12.38	VicForests
Even-aged	Central Gippsland	Noojee	462-503-0028	No	MAS	CFE	52.64	36.55	VicForests
Even-aged	Central Gippsland	Noojee	463-502-0007	No	FMS	STR	28.8	20.39	VicForests
Even-aged	Central Gippsland	Noojee	463-502-0008	No	FMS	CFE	29.18	22.84	VicForests
Even-aged	Central Gippsland	Noojee	463-504-0006	No	MAS	CFE	37.16	27.13	VicForests

Even-aged	Central Gippsland	Noojee	463-505-0010	No	MAS	CFE	42.52	25.61	VicForests
Even-aged	Central Gippsland	Erica	480-503-0016	No	MAS	CFE	17.47	8.95	VicForests
Even-aged	Central Gippsland	Erica	480-503-0017	No	MAS	CFE	32.13	7.21	Shared
Even-aged	Central Gippsland	Erica	480-504-0023	No	AAS	CFE	32.78	13.63	VicForests
Even-aged	Central Gippsland	Erica	494-502-0001	No	AAS	CFE	55.11	9.05	VicForests
Even-aged	Central Gippsland	Erica	494-502-0018	No	AAS	CFE	33.95	21.69	VicForests
Even-aged	Central Gippsland	Erica	494-502-0021	No	AAS	CFE	32.91	22.65	VicForests
Even-aged	Central	Alexandra	281-514-0006	No	MMS	STR	17.77	16.71	VicForests
Even-aged	Central	Alexandra	283-503-0018	No	MMS	STR	28.48	17.93	VicForests
Even-aged	Central	Alexandra	283-505-0022	No	FMS	STR	20.98	14.11	VicForests
Even-aged	Central	Alexandra	283-506-0001	No	MMS	STR	41.6	25.73	VicForests
Even-aged	Central	Alexandra	283-506-0002	No	MMS	STR	34.85	30.46	VicForests
Even-aged	Central	Alexandra	283-506-0003	No	MMS	STR	42.58	37.28	VicForests
Even-aged	Central	Alexandra	286-505-0019	No	AAS	CFE	23.49	13.42	VicForests
Even-aged	Central	Alexandra	286-511-0001	No	MAS	RRH	45.49	16.1	VicForests
Even-aged	Central	Alexandra	287-511-0003	No	AAS	RRH	38.3	25.52	VicForests
Even-aged	Central	Alexandra	287-511-0009	No	AAS	CFE	54.14	37.17	VicForests
Even-aged	Central	Alexandra	287-513-0004	No	SHG	RRH	20.4	9.65	VicForests
Even-aged	Central	Alexandra	287-514-0005	No	AAS	CFE	40.85	23.9	VicForests
Even-aged	Central	Alexandra	288-510-0009	No	AAS	CFE	41.29	21.09	VicForests
Even-aged	Central	Alexandra	288-516-0006	No	AAS	RRH	52.24	16.62	VicForests
Even-aged	Central	Toolangi	297-538-0001	No	MAS	CFE	38.33	32.44	VicForests
Even-aged	Central	Toolangi	297-547-0001	No	MAS	CFE	41.78	32.36	VicForests
Even-aged	Central	Toolangi	297-823-0003	No	MAS	CFE	40.09	31.87	VicForests
Even-aged	Central	Toolangi	299-511-0007	No	MAS	CFE	40.67	7.74	VicForests
Even-aged	Central	Toolangi	300-537-0003	No	MAS	CFE	45.12	20.88	VicForests
Even-aged	Central	Toolangi	300-537-0004	No	MAS	CFE	43.65	20.09	VicForests
Even-aged	Central	Toolangi	300-537-0005	No	MAS	CFE	27.71	20.44	VicForests
Even-aged	Central	Toolangi	301-535-0004	No	FMS	STR	29.62	27.74	VicForests
Even-aged	Central	Toolangi	301-552-0001	No	FMS	STR	55.04	20.15	VicForests
Even-aged	Central	Toolangi	306-503-0004	No	MAS	CFS	110.95	7.23	VicForests
Even-aged	Central	Marysville	309-507-0002	No	MAS	CFE	42.47	27.33	VicForests
Even-aged	Central	Marysville	317-506-0003	No	AAS	CFE	49.2	16.09	VicForests

Even-aged	Central	Marysville	317-507-0002	No	MAS	RRH	25.46	9.15	VicForests
Even-aged	Central	Marysville	318-512-0005	No	AAS	CFE	24.11	14.33	VicForests
Even-aged	Central	Marysville	318-512-0007	No	AAS	RRH	38.96	22.53	VicForests
Even-aged	Central	Marysville	320-501-0017	No	AAS	CFE	27.68	22.8	VicForests
Even-aged	Central	Marysville	320-503-0001	No	AAS	CFE	32.07	24.29	VicForests
Even-aged	Central	Marysville	320-503-0010	No	AAS	CFE	44.07	28.57	VicForests
Uneven-aged	Benalla-Mansfield	Benalla/Mansfield	394-501-0002	No	MMS	STS	40.91	7.61	VicForests
Uneven-aged	Benalla-Mansfield	Benalla/Mansfield	394-501-0004	No	MMS	STS	36.86	25.06	VicForests
Even-aged	Benalla-Mansfield	Benalla/Mansfield	394-501-0005	No	MMS	STR	22.76	15.52	VicForests
Uneven-aged	Benalla-Mansfield	Benalla/Mansfield	395-502-0003	No	MMS	STS	48.23	42.07	VicForests
Uneven-aged	Benalla-Mansfield	Benalla/Mansfield	412-504-0001	No	MMS	STS	32.75	23.79	VicForests
Even-aged	North East	Upper Murray	676-528-0005	No	AAS	CFE	27.83	16.92	VicForests
Even-aged	North East	Upper Murray	676-529-0003	No	MMS	CFE	26.76	9.59	VicForests
Even-aged	North East	Upper Murray	676-530-0013	No	AAS	CFE	16.22	11.27	VicForests
Even-aged	North East	Upper Murray	683-508-0005	No	AAS	CFE	39.17	33	VicForests
Even-aged	North East	Upper Murray	683-516-0003	No	AAS	CFE	50.71	34.35	VicForests
Even-aged	North East	Upper Murray	683-517-0005	No	AAS	CFE	12.39	8.29	VicForests
Even-aged	North East	Upper Murray	686-506-0006	No	AAS	CFE	44.07	23.09	VicForests
Even-aged	North East	Upper Murray	687-512-0006	No	AAS	CFE	18.19	15.06	VicForests
Even-aged	North East	Upper Murray	687-512-0008	No	AAS	CFE	40.9	25.77	VicForests
Even-aged	Tambo	Bairnsdale	727-507-0002	No	MMS	STR	32.2	29.19	VicForests
[No survey]	Tambo	Bairnsdale	729-501-0002	No	MAS	UNL	21.35		VicForests
Even-aged	Tambo	Bairnsdale	731-505-0002	No	FMS	STR	52.93	21.79	VicForests
Even-aged	Tambo	Bairnsdale	735-510-0019	No	FMS	STR	16.6	15.23	VicForests
Even-aged	Tambo	Bairnsdale	741-509-0002	No	FMS	STR	42.18	32.12	VicForests
Even-aged	Tambo	Bairnsdale	742-507-0004	No	FMS	STR	35.84	20.87	VicForests
Even-aged	Tambo	Bairnsdale	742-507-0005	No	FMS	STR	42.57	17.16	VicForests
Even-aged	Tambo	Bairnsdale	743-502-0003	No	CMS	FWF	26.37	23.06	VicForests
Even-aged	Tambo	Bairnsdale	743-504-0003	No	CMS	STR	20.99	11.61	VicForests
Even-aged	Tambo	Bairnsdale	743-504-0004	No	CMS	STR	23	19.8	VicForests
Even-aged	Tambo	Swifts Creek	760-504-0001	No	AAS	CFE	37.41	14.72	VicForests
Even-aged	Tambo	Swifts Creek	760-506-0002	No	AAS	CFE	36.33	22.96	VicForests
Even-aged	Tambo	Swifts Creek	760-506-0012	No	AAS	CFE	19.37	12.21	VicForests

Even-aged	Tambo	Swifts Creek	765-523-0003	No	AAS	CFE	29.09	10.75	VicForests
Even-aged	Tambo	Swifts Creek	771-505-0010	No	AAS	CFE	33.87	20.77	VicForests
Even-aged	Tambo	Swifts Creek	771-507-0002	No	AAS	CFE	34.75	33.66	VicForests
Even-aged	Tambo	Swifts Creek	771-507-0019	No	AAS	CFE	35.94	31.11	VicForests
Even-aged	Tambo	Swifts Creek	771-507-0027	No	AAS	CFE	34.13	30.23	VicForests
[No survey]	East Gippsland	Nowa Nowa	801-507-0018	Yes	CMS	RDC	11.97	1.55	VicForests
Even-aged	East Gippsland	Nowa Nowa	804-502-0022	No	CMS	STR	41.71	35.53	VicForests
Even-aged	East Gippsland	Nowa Nowa	804-502-0023	No	CMS	STR	42.36	37.56	VicForests
Even-aged	East Gippsland	Nowa Nowa	814-501-0003	No	MMS	STR	34.92	21.53	VicForests
Even-aged	East Gippsland	Nowa Nowa	814-502-0009	No	MMS	STR	14.29	9.95	VicForests
Even-aged	East Gippsland	Orbost	823-509-0011	No	CMS	STR	32.13	18.12	VicForests
Even-aged	East Gippsland	Orbost	827-501-0022	No	FMS	STR	42.8	28.31	VicForests
Even-aged	East Gippsland	Orbost	827-501-0024	No	FMS	STR	40.89	29.55	VicForests
Even-aged	East Gippsland	Orbost	827-501-0025	No	FMS	STR	43.75	31.45	VicForests
Even-aged	East Gippsland	Orbost	827-501-0026	No	FMS	STR	45.71	26.66	VicForests
Even-aged	East Gippsland	Orbost	827-501-0027	No	FMS	STR	35.66	21.99	VicForests
Even-aged	East Gippsland	Orbost	827-503-0005	No	FMS	STR	41.05	18.4	VicForests
Even-aged	East Gippsland	Orbost	827-505-0005	No	FMS	STR	29.43	20.31	VicForests
Even-aged	East Gippsland	Orbost	827-512-0010	No	CMS	STR	40.13	35.85	VicForests
Even-aged	East Gippsland	Orbost	827-512-0012	No	CMS	STR	34.42	29.77	VicForests
Even-aged	East Gippsland	Orbost	830-502-0010	No	FMS	STR	15.74	6.54	VicForests
[No survey]	East Gippsland	Orbost	830-507-0019	Yes	FMS	RDI	6.54		VicForests
Even-aged	East Gippsland	Orbost	830-507-0020	No	FMS	STR	44.6	3.56	VicForests
Even-aged	East Gippsland	Orbost	830-507-0023	No	FMS	STR	27.99	9.94	VicForests
[No survey]	East Gippsland	Orbost	830-510-0010	Yes	FMS	RDC	5.72		VicForests
[No survey]	East Gippsland	Orbost	830-510-0011	Yes	FMS	RDC	13.69		VicForests
Thinning	East Gippsland	Orbost	831-506-0010	No	FMS	THB	60.18		Shared
Even-aged	East Gippsland	Orbost	832-502-0017	No	FMS	STR	46.43	5.01	VicForests
Even-aged	East Gippsland	Orbost	835-512-0003	No	CMS	STR	44.69	27.4	VicForests
Even-aged	East Gippsland	Orbost	835-512-0008	No	CMS	STR	34.81	19.48	VicForests
Even-aged	East Gippsland	Orbost	836-507-0007	No	FMS	CFS	36.58	1.06	VicForests
Even-aged	East Gippsland	Orbost	836-524-0021	No	FMS	STR	35.88	11.81	VicForests
Even-aged	East Gippsland	Orbost	836-524-0024	No	FMS	STR	26.02	16.51	VicForests



Thinning	East Gippsland	Orbost	837-512-0008	No	AAS	THB	47.03	32.24	VicForests
Even-aged	East Gippsland	Orbost	842-510-0013	No	FMS	STR	24.82	17.64	VicForests
Even-aged	East Gippsland	Orbost	842-513-0052	No	FMS	STR	44.19	23.83	VicForests
Even-aged	East Gippsland	Orbost	842-518-0035	No	FMS	STR	47.17	3.57	VicForests
Even-aged	East Gippsland	Cann River	853-506-0019	No	CMS	STR	24.6	5.06	VicForests
Even-aged	East Gippsland	Cann River	863-507-0004	No	CMS	STR	14.63	5.12	VicForests
Even-aged	East Gippsland	Cann River	863-507-0008	No	CMS	STR	33.77	16.51	VicForests
Even-aged	East Gippsland	Cann River	863-507-0009	No	CMS	STR	40.41	24.85	VicForests
Even-aged	East Gippsland	Cann River	866-511-0010	No	CMS	STR	28.81	22.16	VicForests
Even-aged	East Gippsland	Cann River	867-502-0007	No	FMS	STR	44.82	9.13	VicForests
Even-aged	East Gippsland	Cann River	867-507-0011	No	CMS	STR	36.94	21.02	VicForests
Even-aged	East Gippsland	Cann River	868-507-0015	No	FMS	STR	17.88	11.81	VicForests
Thinning	East Gippsland	Cann River	874-511-0002	No	FMS	THA	134.65	90.82	Shared
[No survey]	East Gippsland	Cann River	875-508-0004	Yes	FMS	RDC	43.22		VicForests
Even-aged	East Gippsland	Cann River	876-516-0008	No	CMS	FWF	52.08	36.76	VicForests
Even-aged	East Gippsland	Cann River	878-514-0004	No	FMS	FWF	20.95	18.83	VicForests
Even-aged	East Gippsland	Cann River	886-505-0010	No	FMS	STR	44.33	27.35	VicForests
Even-aged	East Gippsland	Cann River	888-510-0010	No	FMS	STR	47.95	22.61	VicForests
Even-aged	East Gippsland	Bendoc	891-513-0010	No	MMS	STR	18.22	0.88	VicForests
Even-aged	East Gippsland	Bendoc	895-505-0008	No	MMS	STR	13.71	11.88	VicForests
Even-aged	East Gippsland	Bendoc	895-505-0014	No	MMS	STR	24.41	19.28	VicForests
Even-aged	East Gippsland	Bendoc	895-509-0004	No	MMS	STR	18.94	18.74	VicForests
Even-aged	East Gippsland	Bendoc	895-511-0007	No	MMS	STR	28.57	27.35	VicForests

# Case Decision Record: Case 2019-0073

Timber Harvesting Compliance Unit  
Office of the Conservation Regulator

## Meeting date/time

25/10/2020 @11:15AM

## Present

- [REDACTED]
- [REDACTED]
- [REDACTED]

## Matter under investigation

On 3 November 2019 the Timber Harvesting Compliance Unit (THCU) received a report from Goongerah Environment Centre (GECO) alleging VicForests had removed multiple coupes at Mt Delusion, East Gippsland from the TRP despite unsuccessful regeneration. The coupes included: Saturday Lunchtime (771-507-0001), Toms Tk North (771-507-0012), Toms Track (771-507-0013) and Crown (770-507-0001), Paspalum (773-501-0022), Buffalo Grass (773-501-0008) and The Farm (722-504-0005). The coupes listed above were removed from the TRP in April 2019.

Coupes Groves Gap (771-507-0002), Groves Gamble (771-506-0001), The Grove (771-507-0004), Tom Tom Drum's (771-507-0027), Guinness (771-505-0010) and Crawfords Tk. Ext (771-505-0005) are cited in Forest Report 2019-0073. The coupes remain on the current TRP and as such have not been a focus of this investigation, however will be referenced in any case recommendations if a finding of non-compliance is confirmed. This also applies to coupe New Rush Clearfell (771-507-0014) which was removed from the TRP prior to 2019.

Third party allegations that were not substantiated are addressed below, whilst matters that were further investigated by THCU are further discussed in the next sections below

- The report requests the immediately cease of timber harvesting in 'Duped' and 'Bucket Mouth' coupes based on the above allegation.

**Case Officer Assessment:** Regeneration practices are a standard process in VicForests timber harvesting operations. THCU has no evidence or reason to believe VicForests will fail to successfully regenerate coupes Duped and Bucket Mouth and will not be requesting the cease of operations.

## THCU Alleged breaches / offences

### Activities investigated in relation to THCU allegations

Under Part 5 of the Sustainable Forests (Timber) Act 2004 (the Act), VicForests must prepare a TRP in relation to the Allocation Order for undertaking management activities associated with timber harvesting including forest regeneration. TRPs must also be consistent with the Allocation Order and any relevant Code of Practice related to timber harvesting.

The Code of Practice for Timber Production 2014 specifies that harvested areas of native forest must be successfully regenerated. The minimum regeneration standards are outlined the Management Standards and Procedures for timber harvesting operations in Victoria's State Forest 2014. When VicForests has measured that a coupe has successfully regenerated, that coupe can be removed from the TRP.



Clause 18 of the Allocation Order states that VicForests must submit an annual report to the Secretary to DJPR by 30 September each year describing the area of timber harvested and regeneration results for the preceding financial year for ash and mixed species forest stand types.

### Code

- 2.1.1.1 Long-term forest management planning must: vii. facilitate effective regeneration of harvested forest.
- 2.6.1.1 Planning and management of timber harvesting operations must comply with relevant regeneration measures specified within the Management Standards and Procedures.
- 2.6.1.5 Regeneration must aim to achieve the approximate canopy floristics that were common to the coupe prior to harvesting, if known.
- 2.6.1.6 Silvicultural methods for regeneration must suit the ecological requirements of the forest type, taking into consideration the requirements of sensitive understorey species and local conditions.
- 2.6.1.7 Harvested coupes must be regenerated as soon as practical, including follow up or remedial action in the event of regeneration failure.

### MSPs

- 9.1.1.1 For evenaged stands, conduct stocking surveys 15-30 months after sowing/seed fall or planting.
- 9.1.1.2 Successfully stocked even-aged regenerating forests must have:
  - (a) at least 1 acceptable seedling in 65 % of 2.27 m radius (16 m<sup>2</sup>) plots placed on a 20 m by 80 m systematic grid or at least 1 acceptable seedling in at least 55 % of 2.27 m radius (16 m<sup>2</sup>) plots placed on a 20 m by 40 m systematic grid; and
  - (b) no discrete area greater than 1 ha with less than 400 stems per hectare.
- 9.1.1.8 Where stocking, health or early growth is inadequate, remedial work must be conducted as soon as practicable and within 5 years of the previous regeneration attempt to obtain adequate regeneration. Further assessment must be undertaken following remedial treatment to ensure that it has been successfully regenerated.

### Key investigative activities completed to date

03/11/2019 - Original report received in Forest Reports Inbox from [REDACTED], GECO

11/11/2019 – [REDACTED] (VicForests) provided the stocking survey results.

18/11/2019 - AO [REDACTED] presented for THIAP assessment. Accepted for investigation.

17/12/2019 AO [REDACTED] spoke to [REDACTED], Manager Forestry Industry Policy DJPR @10:37

[REDACTED] stated DJPR's role in monitoring VF regeneration involves assessing documents provided by VicForests for accuracy and using 5-year harvesting plan. VF provides Annual Harvesting Report, coupe finalisation list and associated spatial data. Once verified DJPR brief the secretary before making the report public.

21/10/2020 - Site visit conducted ([REDACTED] and [REDACTED])

## Investigative evaluation

The successful regeneration of coupes post-harvest is the responsibility of VicForests. Stocking surveys are completed by VicForests to ensure stocking levels meet the required prescriptions in the Code and MSPs. VicForests has provided the table below for the relevant coupes listed in the report.

s35: Confidential

## Field Inspection

On 21 October 2020 THCU officers inspected all coupes listed above to ground truth the original report allegations. Officers did not conduct stocking surveys but instead made observations of regeneration coverage, species and surrounding floristics. Officers also inspected for the presence of weeds and the regeneration of coupe infrastructure. The below table summarises the findings of the inspection and images are attached below.

Coupe Address	Coupe Name	Estimated Stocking Level	Prevailing Species	Visible Regeneration in Burn YIN	Seed/Habitat Tree survival	Weeds Present	Notes
771-507-0001	Saturday Luncheon	Moderate	Eucalyptus, Grasses	Yes	Moderate		Minimal regeneration in southern section of coupe
771-507-0012	Terra Tk North	Low	Heath, Grasses	No	Low		Regeneration of Eucalyptus in south-west of coupe
771-507-0013	Terra Track	Low	Heath, Grasses	No	Low	Blackberry	Large parallel heaps dominated by blackberry. Minimal regeneration or natural seeding of eucalyptus
770-507-0001	Crown	Moderate	Eucalyptus, Acacia, Grasses	Yes	Low		Minimal regeneration in northern section of coupe. Large section of mature vegetation setback in eastern corner of coupe
773-501-0022	Paspalum	Moderate	Eucalyptus, Acacia, Grasses	Yes	Moderate		
773-501-0008	Buffalo Grass	Moderate	Eucalyptus, Grasses	Yes	Moderate		Some large areas without regeneration but overall high coverage of even-aged eucalyptus
722-504-0005	The Farm	Low	Grasses	Yes	Low	Blackberry	Northern corner of coupe has high level of eucalyptus and southern corner dominated by acacia. Overall coupe is dominated by grasses and heaps with blackberry



## Evidential evaluation

### The overall strength of the case

Of the seven coupes assessed and inspected as a part of case 2019-0073 three coupes have an estimated stocking level of low and four coupes have an estimated stocking level of moderate. From these estimates as well as in-field observations THCU has identified coupes and regeneration outcomes that do not meet the prescriptions in the Code and MSPs that outline regeneration standards. THCU note that the worst regeneration practices were observed in older coupes. THCU note that the concentration of harvesting activity at Mount Delusion and regeneration outcomes have resulted in large areas of fragmented habitat and canopy floristics vastly different to that prior to harvesting.

Regeneration activities for the coupes listed occurred between 2011 and 2018.

## Recommendation(s) for case direction

Case 2019-0073 has identified regeneration outcomes that are non-compliant with the Code and MSPs and has resulted in poor land management outcomes. A letter to Vicforests outlining field inspection findings and requesting information on the state of regenerating coupes and any planned remedial action.

## Agreed tasks

- 1) Case officer to ...
  - a) Prepare request for information letter to VicForests outlining investigation findings and requesting the following information:
    - VicForests assessment and explanation for field inspection observations made and planned remedial action.
  - b) If VicForests response is incomplete or inadequate THCU will consider the issuing of Direction under Section 70(1) of the Act to ensure appropriate remedial work is conducted to improve regeneration outcomes. Instructing VicForests to:
    - Conduct additional stocking surveys of all coupes listed and provide results to THCU
    - Advise which coupes require remedial work and thus add coupes to Timber Release Plan to conduct proposed works
  - c) Consider a data sharing agreement with VicForests in order for the Conservation Regulator to ensure appropriate regeneration has been undertaken and improve land management outcomes. THCU recommend VicForests provide DJPR and the Conservation Regulator with the Annual Harvesting and Regeneration Report every September. This must include the Coupe Finalisation List with most recent stocking survey results.

## Reasons

- The coupes recommended have inadequate regeneration results and should be added to the TRP to conduct regeneration works.
- Since 2013 the Department of Jobs, Precincts and Regions (DJPR) has not had a role in the assessment of VicForests' regeneration.
- THCU has historically had minimal involvement in regeneration results and coupe finalisation. A data sharing agreement will allow THCU to inspect a sample of coupes scheduled to be removed from the TRP.



## Case Decision Record: Case 2019-0073

### Approval:

Case Officer	Case Manager (Officer approving)
Name: <input type="text"/>	Name: <input type="text"/>
Signature: <input type="text"/>	Signature: <input type="text"/>
Time/Date: @11:23 27/10/2020	Time/Date: 29/10/2020 @ 18:26
<b><i>Countersign required below for enforcement action and case closure recommendations</i></b>	
Name: <input type="text"/>	
Title:	Manager Timber Harvesting Compliance Unit
Signature: <input type="text"/>	
Time/Date: <input type="text"/>	

771-507-0012 Toms Tk North



771-507-0013 Toms Track



771-507-0001 Saturday Lunchtime



770-507-0001 Crown





773-501-0008 Buffalo Grass



773-501-0022 Paspalum



722-504-0005 The Farm







Ref: 2019-0073

VicForests

By email only: [REDACTED]@vicforests.com.au

Dear [REDACTED]

#### TIMBER HARVESTING AT MT DELUSION, TAMBO FOREST MANAGEMENT AREA

The Timber Harvesting Compliance Unit (the THCU) of the Office of the Conservation Regulator (the Conservation Regulator) is investigating VicForests' timber harvesting operations at Coupes 771-507-0001 (Coupe Saturday Lunchtime), 771-507-0012 (Coupe Toms Tk North), 771-507-0013 (Coupe Toms Track), 770-507-0001 (Coupe Crown), 773-501-0022 (Coupe Paspalum), 773-501-0008 (Coupe Buffalo Grass) and 722-504-0005 (Coupe The Farm). The reference for this matter is 2019-0073.

The following matters are subject to investigation:

1. Multiple coupes (listed above) at Mt Delusion, Tambo Forest Management Area (FMA) have failed to successfully regenerate.

The information gathered to date indicates that the matters described above may have failed to comply with the following requirements of the *Code of Practice for Timber Production 2014* (the Code) and the *Management standards and procedures for timber harvesting operations in Victoria's State forests 2014* (the MSPs):

#### Code

- Clause 2.1.1.1 Long-term forest management planning must:
  - vii. facilitate effective regeneration of harvested forest.
- Clause 2.6.1.5 Regeneration must aim to achieve the approximate canopy floristics that were common to the coupe prior to harvesting, if known.
- Clause 2.6.1.7 Harvested coupes must be regenerated as soon as practical, including follow up or remedial action in the event of regeneration failure.

#### MSP

- Clause 9.1.1.1 For even-aged stands, conduct stocking surveys 15-30 months after sowing/seed fall or planting.
- Clause 9.1.1.2 Successfully stocked even-aged regenerating forests must have:
  - (a) at least 1 acceptable seedling in 65 % of 2.27 m radius (16 m<sup>2</sup>) plots placed on a 20 m by 80 m systematic grid or at least 1 acceptable seedling in at least 55 % of 2.27 m radius (16 m<sup>2</sup>) plots placed on a 20 m by 40 m systematic grid; and
  - (b) no discrete area greater than 1 ha with less than 400 stems per hectare.
- Clause 9.1.1.8 Where stocking, health or early growth is inadequate, remedial work must be conducted as soon as practicable and within 5 years of the previous regeneration attempt to obtain adequate



regeneration. Further assessment must be undertaken following remedial treatment to ensure that it has been successfully regenerated.

A failure to undertake timber harvesting operations in accordance with the Code and the associated MSP is an offence under section 45 of the *Sustainable Forests (Timber) Act 2004* (the Act).

On 21 October 2020 THCU officers conducted a field inspection of coupes: Saturday Lunchtime, Toms Tk North, Toms Track, Crown, Paspalum, Buffalo Grass and The Farm. During the inspection officers observed:

- Large areas of coupes with minimal to no stocking of eucalyptus, which do not achieve approximate canopy floristics prior to harvesting (See images below)
- The presence of weeds particularly Blackberry (*Rubus fruticosus*) widespread in windrows
- Low survival rate of seed/habitat trees within coupes

The evidence gathered indicates regeneration outcomes at these coupes have failed to meet the minimum regeneration standards outlined in the Code and MSPs. The concentration of harvesting activity at Mt Delusion and the state of regenerating coupes has resulted in large areas of fragmented habitat persisting overtime.

To assist my investigation, I request that VicForests provide me the following information:

- a. an explanation as to the current state of regenerating coupes listed and any relevant documents to support this assessment
- b. any planned remedial actions that VicForests propose to undertake to bring regeneration status at the coupes into compliance with the MSPs.

Please note that you are not under any legal obligation to provide me this information and I am not exercising any power to gain access to the documents. Please also be aware that any documents that are provided to me will be used to further my investigation and may be used as evidence against VicForests.

I request this information by 5pm on 20 November 2020. If you have any questions or would like to discuss this request further, please contact me via email at [REDACTED]@delwp.vic.gov.au or by telephone on [REDACTED]

Yours sincerely,

[REDACTED]

– Planning, Timber Harvesting Compliance Unit  
Office of the Conservation Regulator

Date: 30/10/2020

771-507-0012 Toms Tk North



771-507-0013 Toms Track





771-507-0001 Saturday Lunchtime



770-507-0001 Crown



773-501-0008 Buffalo Grass



773-501-0022 Paspalum







# Case Decision Record: Case 2019-0073

Timber Harvesting Compliance Unit  
Office of the Conservation Regulator

## Meeting date/time

By submission of record for approval following conversations on 8 February 2021 between appointed Case Officer [REDACTED] and [REDACTED]

## Present

- [REDACTED]
- [REDACTED]

## Matter under investigation

On 3 November 2019 the Timber Harvesting Compliance Unit (the THCU) received a report from Goongerah Environment Centre (GECO) alleging VicForests had removed multiple coupes at Mt Delusion, East Gippsland from the Timber Release Plan (TRP) despite unsuccessful regeneration.

The coupes included:

Saturday Lunchtime (771-507-0004)	Paspalum (773-501-0022)
Toms Tk North (771-507-0012)	Buffalo Grass (773-501-0008)
Toms Track (771-507-0013)	The Farm (722-504-0005)

The coupes listed above were removed from the TRP in April 2019.

The following coupes were also cited in Forest Report 2019-0073 however are still listed on the current TRP and as such have not been a focus of this investigation. They will, however, be referenced in any case recommendations if a finding of non-compliance is confirmed. This also applies to coupe New Rush Clearfell (771-507-0014) which was removed from the TRP prior to 2019.

Grove Gap (771-507-0002)	Tom Tom Drum's (771-507-0027)
Groves Gamble (771-506-0001)	Guinness (771-505-0010)
The Grove (771-507-0004)	Crawfords Tk. Ext (771-505-0005)

Third party allegations that were not substantiated are addressed below, whilst matters that were further investigated by THCU are further discussed in the next sections below.

- The report requests the immediate cease of timber harvesting in coupes 'Duped' and 'Bucket Mouth' based on the above allegation

**Preliminary Case Officer Assessment:** Regeneration practices are a standard process in VicForests' timber harvesting operations. The THCU has no evidence or reason to believe VicForests will fail to successfully regenerate coupes Duped and Bucket Mouth and therefore will not be requesting operations cease.



## THCU Alleged breaches / offences

As per Part 5 of the *Sustainable Forests (Timber) Act 2004* (the Act), VicForests must prepare a TRP in relation to the Allocation Order for undertaking management activities associated with timber harvesting, including forest regeneration. The TRP must also be consistent with the Allocation Order and any relevant Code of Practice relating to timber harvesting.

The *Code of Practice for Timber Production 2014* specifies that harvested areas of native forest must be successfully regenerated. The minimum regeneration standards are outlined in the *Management Standards and Procedures for timber harvesting operations in Victoria's State forest 2014* (The MSPs). When VicForests has assessed that a coupe has successfully regenerated, the coupe may be removed from the TRP.

Clause 18 of the Allocation Order states that VicForests must submit an annual report to the Secretary, Department of Jobs, Precincts and Regions (DJPR) by 30 September each year describing the area of timber harvested and regeneration results for the preceding financial year for ash and mixed species forest stand types.

### Code

- 2.1.1.1 Long-term forest management planning must:
  - vii. facilitate effective regeneration of harvested forest.
- 2.6.1.1 Planning and management of timber harvesting operations must comply with relevant regeneration measures specified within the Management Standards and Procedures.
- 2.6.1.5 Regeneration must aim to achieve the approximate canopy floristics that were common to the coupe prior to harvesting, if known.
- 2.6.1.6 Silvicultural methods for regeneration must suit the ecological requirements of the forest type, taking into consideration the requirements of sensitive understorey species and local conditions.
- 2.6.1.7 Harvested coupes must be regenerated as soon as practical, including follow up or remedial action in the event of regeneration failure.

### MSPs

- 9.1.1.1 For even-aged stands, conduct stocking surveys 15-30 months after sowing/seed fall or planting.
- 9.1.1.2 Successfully stocked even-aged regenerating forests must have:
  - (a) at least 1 acceptable seedling in 65 % of 2.27 m radius (16 m<sup>2</sup>) plots placed on a 20 m by 80 m systematic grid or at least 1 acceptable seedling in at least 55 % of 2.27 m radius (16 m<sup>2</sup>) plots placed on a 20 m by 40 m systematic grid; and
  - (b) no discrete area greater than 1 ha with less than 400 stems per hectare.
- 9.1.1.8 Where stocking, health or early growth is inadequate, remedial work must be conducted as soon as practicable and within 5 years of the previous regeneration attempt to obtain adequate regeneration. Further assessment must be undertaken following remedial treatment to ensure that it has been successfully regenerated.



## Key investigative activities completed to date

3 NOV 2019	Original report received in Forest Reports Inbox from [REDACTED] GECO
11 NOV 2019	[REDACTED] (VicForests) provided stocking survey results for relevant coupes
18 NOV 2019	AO [REDACTED] presented matter to IAP – accepted for investigation
17 DEC 2019	AO [REDACTED] spoke to [REDACTED] Forest Industry Policy DJPR
21 OCT 2020	AO [REDACTED] conducted coupe inspection
24 DEC 2020	[REDACTED] (VicForests) response letter to report allegations

## Investigative evaluation

VicForests Annual Harvesting and Regeneration Report states successful regeneration of a coupe is termed 'coupe finalisation' and can only be demonstrated when the entire net harvested area of a coupe has been adequately restocked with seedlings, usually established by sowing seed after the completion of a regeneration burn. Additional area is successfully regenerated each year, but coupes are only reported when the entire net harvested area has been regenerated.

The annual regeneration program consists of preparing sites where timber harvesting has occurred (site preparation), the establishment of eucalypt seedlings across the net harvested areas (site establishment) and a series of seedling stocking surveys to measure regeneration success. Coupes that have been surveyed and demonstrated to have adequate stocking of the eucalypt species that were present prior to timber harvesting are then nominated for coupe finalisation.

The THCU has been informed by DJPR Forest Industry Policy that DJPR's role in monitoring VicForests' regeneration involves assessing documentation provided by VicForests for accuracy and in accordance with the 5-year harvest area limit. VicForests provides an Annual Harvesting Report, coupe finalisation list and associated spatial data. Once verified, DJPR brief the Secretary before making the report public.

It is to be noted that DJPR has not had a role in the field verification of VicForests' regeneration activities. Information supplied to DJPR does not include regeneration survey results.

VicForests provided the table below for the relevant coupes listed in Forest Report 2019-0073. The data demonstrated that regeneration stocking survey scores were compliant with the MSPs.

s35: Confidential

VicForests' response letter to the allegations, dated 24 December 2020 stated that all coupes had passed regeneration surveys and were subsequently finalised due to there being no other identified issues.

s35: Confidential

Coupes Toms Track North 771-507-0012 and Toms Track 771-507-0013 were targeted during the Forest Audit Program in 2016-17, as their regeneration status was the subject of particular concern by DELWP.

Results of the stocking surveys for each of the coupes are given in Table 4.1 of the *Report on the 2016-17 Forest Audit Program* conducted by Jacobs Group (Australia) Pty Ltd.

Table 4.1 Results of the audit of regeneration success.

Coupe	VicForests regeneration survey stocking rate <sup>1</sup>	Audit stocking rate <sup>1,2</sup>	# productive plots
#31 Toms Track North - 771-507-0013	78%	58%	29 of 30 sampling points
#32 Toms Track - 771-507-0013	71%	51%	45 of 50 sampling points
#33 Saturday Night - 771-507-0017	83%	94%	50 of 50 sampling points
#34 Saturday Morning - 771-507-0018	82%	88%	50 of 50 sampling points

1. Stocking rate: number of stocked sampling points as percentage of productive sampling points.
2. Yellow shading reflects that the stocking rate is less than the 65% required by the MSPs (for a standard 80x20 m regeneration survey).

They show that the two coupes were not adequately stocked (Figure 4.15).



#31 Toms Track North coupe, view across coupe towards #32 Toms Track coupe. Both coupes are dominated by alpine grasses and non-eucalypt regeneration



Eucalypt seedling, #32 Toms Track coupe. This seedling is <20 cm tall and is not "acceptable" for the purposes of a regeneration survey (MSP 9.1.1.5). Similar seedlings were distributed at relatively low density across coupes #31 and 32.

Figure 4.15 Views of #31 Toms Track North and #32 Toms Track regeneration audit coupes, Tambo FMA.

The audit stocking assessment was not consistent with VicForests' regeneration surveys, which found that coupes Toms Track North and Toms Track had been successfully regenerated and were suitable for finalisation.



VicForests' regeneration surveys were undertaken in November 2014 and presumably reflected the stocking of the coupes at the time. Grazing by cattle, deer, insects, and other herbivores, as well as competition from the dense grass cover has presumably reduced stocking since those surveys. The two understocked coupes had been rough-heaped and hand seeded, indicating that the initial regeneration attempts were also unsuccessful.

The auditor's findings in relation to forest regeneration activities was that the two coupes considered were not adequately stocked and were not suitable for finalisation. These two coupes had previously been found to have been adequately stocked and were finalised and handed back to DELWP for on-going management.

THCU officers conducted visual observations of regeneration coverage, species presence and surrounding floristics. No formal regeneration survey methodology was conducted. Officers also inspected for the presence of weeds. The below table summarises the findings of the inspection.

Coupe Address	Coupe Name	Estimated Stocking Level	Prevailing Species	Visible Regeneration Burn Y/N	Seed/Habitat tree survival	Weeds Present	Notes
771-507-0001	Saturday Lunchtime	Moderate	Eucalypts, Grasses	Yes	Moderate		Minimal regeneration in southern section
771-507-0012	Toms Tk North	Low	Heath, Grasses	No	Low		Regeneration of Eucalypts south-west section
771-507-0013	Toms Track	Low	Heath, Grasses	No	Low	Blackberry	Large parallel heaps dominated by blackberry. Minimal regeneration or natural seeding of eucalypts.
770-507-0001	Crown	Moderate	Eucalypts, Acacia, Grasses	Yes	Low		Minimal regeneration northern section. Large section of mature vegetation dieback eastern corner
773-501-0022	Paspalum	Moderate	Eucalypts, Acacia, Grasses	Yes	Moderate		
773-501-0008	Buffalo Grass	Moderate	Eucalypts, Grasses	Yes	Moderate		Some large areas without regeneration, overall high coverage even-aged eucalypts
722-504-0005	The Farm	Low	Grasses	Yes	Low	Blackberry	Northern corner high coverage eucalypts, southern corner dominated acacia. Overall coupe dominated grasses/blackberry.

### Evidential evaluation

The primary issue regarding whether sufficient evidence exists against VicForests' regeneration efforts is the inability to prove causation of impact. Due to the lack of field verification of VicForests' stocking surveys and regeneration outcomes, it is difficult to determine a definitive cause as to the regeneration failure, and whether liability for the cause rests with VicForests.

The investigation must therefore rely on the data of VicForests' stocking surveys and find that at the finalisation of timber harvesting operations at these coupes, regeneration rates were successful, as defined by the MSPs.

Previous investigations (2016-0068, 2020-0001) identified VicForests' weed data provided the minimum level of detail on the type and extent of weeds pre/post-harvest at a coupe level. Further investigation into invasive weed management in the Rubicon State Forest was undertaken by requesting strategic level data from DELWP's Victorian Forest Monitoring Program. This data is not considered to be localised or intensive enough to assist with determining management effectiveness at a coupe level. Both datasets failed to provide an adequate measure of the prevalence of invasive weeds (e.g. blackberry) to determine the effectiveness of VicForests' weed management strategies.

The consideration of additional regulatory guidance to VicForests for enhanced data collection concerning invasive weed prevalence or other impacts (e.g. browsing damage) is imperative to support a more comprehensive assessment of compliance with forest regeneration.

The agreed task as listed in 2019-0073 Case Decision Record, signed 29 October 2020 by the Case Manager, stated if VicForests' response to the allegations and field observations of THCU officers was incomplete or inadequate, that the THCU would consider the issuing of a Direction under Section 70(1) of the *Sustainable Forests (Timber) Act 2014* to ensure appropriate remedial work is conducted to improve regeneration outcomes at the applicable coupes.

However, Section 70(1) of the Act states:

#### **70 Direction in relation to conduct of timber harvesting operations**

- (1) An authorised officer may give directions as to the conduct of timber harvesting operations in a State forest to any person who is undertaking timber harvesting operations in a State forest.

The coupes listed in Forest Report 2019-0073 are no longer listed on the TRP. No operations are being undertaken at these coupes and therefore an authorised officer may not direct VicForests as to the conduct of works to commence outside of the TRP.

### Recommendation(s) for case direction

Due to the lack of compliance and enforcement options, it is the recommendation that the matter is closed from a compliance perspective. The responsibility further remediation of the coupes should be referred to DELWP Forest and Fire Operations Division as the land manager.


VicForests have expressed that they would consider involvement in further attempts to regenerate identified failed areas under DELWP's direction or authority.



## Case Decision Record: Case 2019-0073

### Approval:

Case Officer	Case Manager (Officer approving)
Name: [REDACTED]	Name: [REDACTED]
Signature: [REDACTED]	Signature: [REDACTED]
Time/Date: 10 February 2021	Time/Date: 25/02/2021, 1551hrs
<b><i>Countersign required below for enforcement action and case closure recommendations</i></b>	
Name: [REDACTED]	
Title: [REDACTED] Timber Harvesting Compliance Unit	
Signature: [REDACTED]	
Time/Date: 25/02/2021, 1551hrs	



On 6 April 2021 at 15:00hrs I met via Microsoft Teams with [REDACTED] to discuss the evidence gathered in relation to Forest Report 2019-0073 and to ascertain what role would DELWP (the land manager for state forests) or VicForests play in relation to the regeneration works for coupes that have unsuccessfully regenerated after successful VicForests stocking surveys.

At the resolution of the meeting, [REDACTED] informed me that he would discuss the matter further with [REDACTED] Strategic Policy and Coordination, for further consideration.

On 8 April 2021 at 15:07hrs I received a message from [REDACTED] via Microsoft Teams, in relation to his discussion with [REDACTED] regarding coupe regeneration and liability. [REDACTED] wrote:

*"The general message was that, if there is evidence that the coupe was successfully regenerated, irrespective of whether or not its still on the TRP, there's not really an avenue through the Code regarding compliance or a requirement to rectify that - largely comes back to DELWP being the land manager. I suppose in a way its similar to if a 12 year old ash coupe was regenerating post harvest was then burned in a wildfire - the failure of regeneration and rectification of that does come back to DELWP. VF may give us seeds to help with that work (as was the case this year) but it wouldnt be an obligation on them."*



[REDACTED]

Timber Harvesting Compliance Unit

Date: 9 April 2021





Goongerah Environment Centre (GECO)  
By email only: [geco@geco.org.au](mailto:geco@geco.org.au)

Ref: 2019-0073

Dear [REDACTED]

## INVESTIGATION OUTCOME VICFORESTS TIMBER HARVESTING OPERATIONS AT MT. DELUSION, EAST GIPPSLAND

On 3 November 2019, the Timber Harvesting Compliance Unit (the THCU) of the Conservation Regulator received information alleging non-compliance with the *Code of Practice for Timber Production 2014* (the Code) and the incorporated *Management Standards and Procedures for timber harvesting operations in Victoria's State forests 2014* (the MSPs) at multiple coupes near Mt Delusion, East Gippsland. Please find below the matters investigated and the THCU's findings.

***Allegation 1: That VicForests had removed multiple coupes at Mt Delusion, East Gippsland from the Timber Release Plan (TRP), despite unsuccessful regeneration.***

The relevant prescriptions are:

### Code

- 2.1.1.1 Long-term forest management planning must:
  - vii. facilitate effective regeneration of harvested forest.
- 2.6.1.1 Planning and management of timber harvesting operations must comply with relevant regeneration measures specified within the Management Standards and Procedures.
- 2.6.1.5 Regeneration must aim to achieve the approximate canopy floristics that were common to the coupe prior to harvesting, if known.
- 2.6.1.6 Silvicultural methods for regeneration must suit the ecological requirements of the forest type, taking into consideration the requirements of sensitive understorey species and local conditions.
- 2.6.1.7 Harvested coupes must be regenerated as soon as practical, including follow up or remedial action in the event of regeneration failure.

### MSPs

- 9.1.1.1 For even-aged stands, conduct stocking surveys 15-30 months after sowing/seed fall or planting.
- 9.1.1.2 Successfully stocked even-aged regenerating forests must have:
  - (a) at least 1 acceptable seedling in 65 % of 2.27 m radius (16 m<sup>2</sup>) plots placed on a 20 m by 80 m systematic grid or at least 1 acceptable seedling in at least 55 % of 2.27 m radius (16 m<sup>2</sup>) plots placed on a 20 m by 40 m systematic grid; and
  - (b) no discrete area greater than 1 ha with less than 400 stems per hectare.
- 9.1.1.8 Where stocking, health or early growth is inadequate, remedial work must be conducted as soon as practicable and within 5 years of the previous regeneration attempt to obtain adequate regeneration. Further assessment must be undertaken following remedial treatment to ensure that it has been successfully regenerated.

Finding: No breach detected.

VicForests' regeneration program consists of preparing sites where timber harvesting has occurred, the establishment of eucalypt seedlings across the net harvested areas and a series of seedling stocking surveys to measure regeneration success. Coupes that have been surveyed and demonstrated to have adequate stocking of the eucalypt species that were present prior to timber harvesting are then nominated for coupe finalisation.

DJPR Forest Industry Policy are responsible for monitoring VicForests' regeneration program in accordance with the 5-year harvest area limit. VicForests provides DJPR an Annual Harvesting Report, coupe finalisation list and associated spatial data.

There is no direct evidence that VicForests' regeneration stocking surveys are not an accurate reflection of the regeneration status of the coupes when the surveys were undertaken, or that regeneration did not comply with the Code and MSP requirements.

Factors including grazing by cattle/deer, as well as competition from dense grass cover and blackberry may have contributed post-surveying to areas becoming unstocked, however there is insufficient evidence to determine a definitive cause.

The coupes referenced in the source report that are alleged to have unsuccessfully regenerated and are currently listed on the TRP have been referred to the Coupe Inspection Program (CIP). The CIP provides valuable intelligence of emerging patterns of non-compliance, which is integral in determining future audit, inspection, and compliance focus.

Regarding the coupes which are no longer on the TRP, the Conservation Regulator is exploring alternative options within DELWP to address the regeneration of native forests. VicForests may be consulted to consider involvement in further attempts to regenerate identified areas.

If you have any questions or would like to discuss this matter further, please contact the THCU at [forest.reports@delwp.vic.gov.au](mailto:forest.reports@delwp.vic.gov.au).

Yours sincerely,

[Redacted Signature]

[Redacted Name]  
Timber Harvesting Compliance Unit  
Office of the Conservation Regulator

Date: 12 / 04 / 2021





# Conservation Regulator

Department of Environment Land, Water and Planning

Forest Compliance, VicForests  
By email only: [@vicforests.com.au](mailto: @vicforests.com.au)

Ref: 2019-0073

Dear

## INVESTIGATION OUTCOME

### VICFORESTS TIMBER HARVESTING OPERATION AT MT. DELUSION, EAST GIPPSLAND

On 3 November 2019, the Timber Harvesting Compliance Unit (the THCU) of the Conservation Regulator received information alleging non-compliance with the *Code of Practice for Timber Production 2014* (the Code) and the incorporated *Management Standards and Procedures for timber harvesting operations in Victoria's State forests 2014* (the MSPs) at multiple coupes near Mt Delusion, East Gippsland. Please find below the matters investigated and the THCU's findings.

***Allegation 1: That VicForests had removed multiple coupes at Mt Delusion, East Gippsland from the Timber Release Plan (TRP), despite unsuccessful regeneration.***

The relevant prescriptions are:

#### Code

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  - vii. facilitate effective regeneration of harvested forest.
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- 2.6.1.5 Regeneration must aim to achieve the approximate canopy floristics that were common to the coupe prior to harvesting, if known.
- 2.6.1.6 Silvicultural methods for regeneration must suit the ecological requirements of the forest type, taking into consideration the requirements of sensitive understorey species and local conditions.
- 2.6.1.7 Harvested coupes must be regenerated as soon as practical, including follow up or remedial action in the event of regeneration failure.

#### MSPs

- 9.1.1.1 For even-aged stands, conduct stocking surveys 15-30 months after sowing/seed fall or planting.
- 9.1.1.2 Successfully stocked even-aged regenerating forests must have:
  - (a) at least 1 acceptable seedling in 65 % of 2.27 m radius (16 m<sup>2</sup>) plots placed on a 20 m by 80 m systematic grid or at least 1 acceptable seedling in at least 55 % of 2.27 m radius (16 m<sup>2</sup>) plots placed on a 20 m by 40 m systematic grid; and
  - (b) no discrete area greater than 1 ha with less than 400 stems per hectare.
- 9.1.1.8 Where stocking, health or early growth is inadequate, remedial work must be conducted as soon as practicable and within 5 years of the previous regeneration attempt to obtain adequate regeneration. Further assessment must be undertaken following remedial treatment to ensure that it has been successfully regenerated.

Finding: No breach detected.

There is no direct evidence that VicForests' regeneration stocking surveys are not an accurate reflection of the regeneration status of the coupes when the surveys were undertaken, or that regeneration did not comply with the Code and MSP requirements.

Factors including grazing by cattle/deer, as well as competition from dense grass cover and blackberry may have contributed to areas becoming unstocked, however there is insufficient evidence to determine a definitive cause.

The coupes referenced in the source report that are alleged to have unsuccessfully regenerated and are currently listed on the TRP have been referred to the Coupe Inspection Program for monitoring.

If you have any questions or would like to discuss this matter further, please contact the Case Officer [REDACTED] via email on [REDACTED] [@delwp.vic.gov.au](mailto:[REDACTED]@delwp.vic.gov.au).

Yours sincerely,

[REDACTED]

[REDACTED] Timber Harvesting Compliance Unit  
Office of the Conservation Regulator

Date: 14 / 04 / 2021



## FAILED REGENERATION AT MT. DELUSION AREA, EAST GIPPSLAND

### REPORT BY GOONGERAH ENVIRONMENT CENTRE, NOVEMBER 2019

Logging coupes in the Mt Delusion area were inspected in the month of October 2019. Several coupes that were logged by VicForests between the years of 2010 and 2017 were observed to be failing to regenerate. Seven of these coupes had been removed from VicForests Timber Release Plan in April 2019 despite failed regeneration works.

This report provides evidence that VicForests has removed at least seven coupes from the TRP in April 2019 that have failed to regenerate, in non compliance with the conditions of the Allocation Order and in breach of the Sustainable Timber (Forests) Act 2014. Evidence of a number of other coupes that remain on VicForests TRP where regeneration works have failed is provided below and questions are raised over whether VicForests' forest management activities can ensure successful regeneration of mature forest currently being logged in the 'Duped' 770-507-0016 coupe and the 'Bucket Mouth' 771-507-0022 coupe, where significant numbers of threatened Greater Gliders were recently report to VicForests and DELWP.<sup>1</sup>

#### REGENERATION REQUIREMENTS:

The following is an excerpt from the Agriculture Victoria website (DJPR)<sup>2</sup>

##### Post harvest regeneration

*Under Part 5 of the Sustainable Forests (Timber) Act 2004 (the Act), VicForests must prepare a TRP in relation to the Allocation Order for undertaking management activities associated with timber harvesting including forest regeneration. TRPs must also be consistent with the Allocation Order and any relevant Code of Practice related to timber harvesting.*

*The Code of Practice for Timber Production 2014 specifies that harvested areas of native forest must be successfully regenerated. The minimum regeneration standards are outlined the Management Standards and Procedures for timber harvesting operations in Victoria's State Forest 2014. **When VicForests has measured that a coupe has successfully regenerated, that coupe can be removed from the TRP.***

*Clause 18 of the Allocation Order states that VicForests must submit an annual report to the Secretary to DJPR by 30 September each year describing the area of timber harvested and regeneration results for the preceding financial year for ash and mixed species forest stand types. DJPR will continue to monitor VicForests' regeneration results.*

---

<sup>1</sup> [https://faunaandfloraresearchcollective.files.wordpress.com/2019/10/191018-new-rush-creek\\_mount-delusion-771-507-0022-greater-glider-detections-etc-ffrc.pdf](https://faunaandfloraresearchcollective.files.wordpress.com/2019/10/191018-new-rush-creek_mount-delusion-771-507-0022-greater-glider-detections-etc-ffrc.pdf)

<sup>2</sup> <http://agriculture.vic.gov.au/agriculture/forestry/timber-allocation-order>

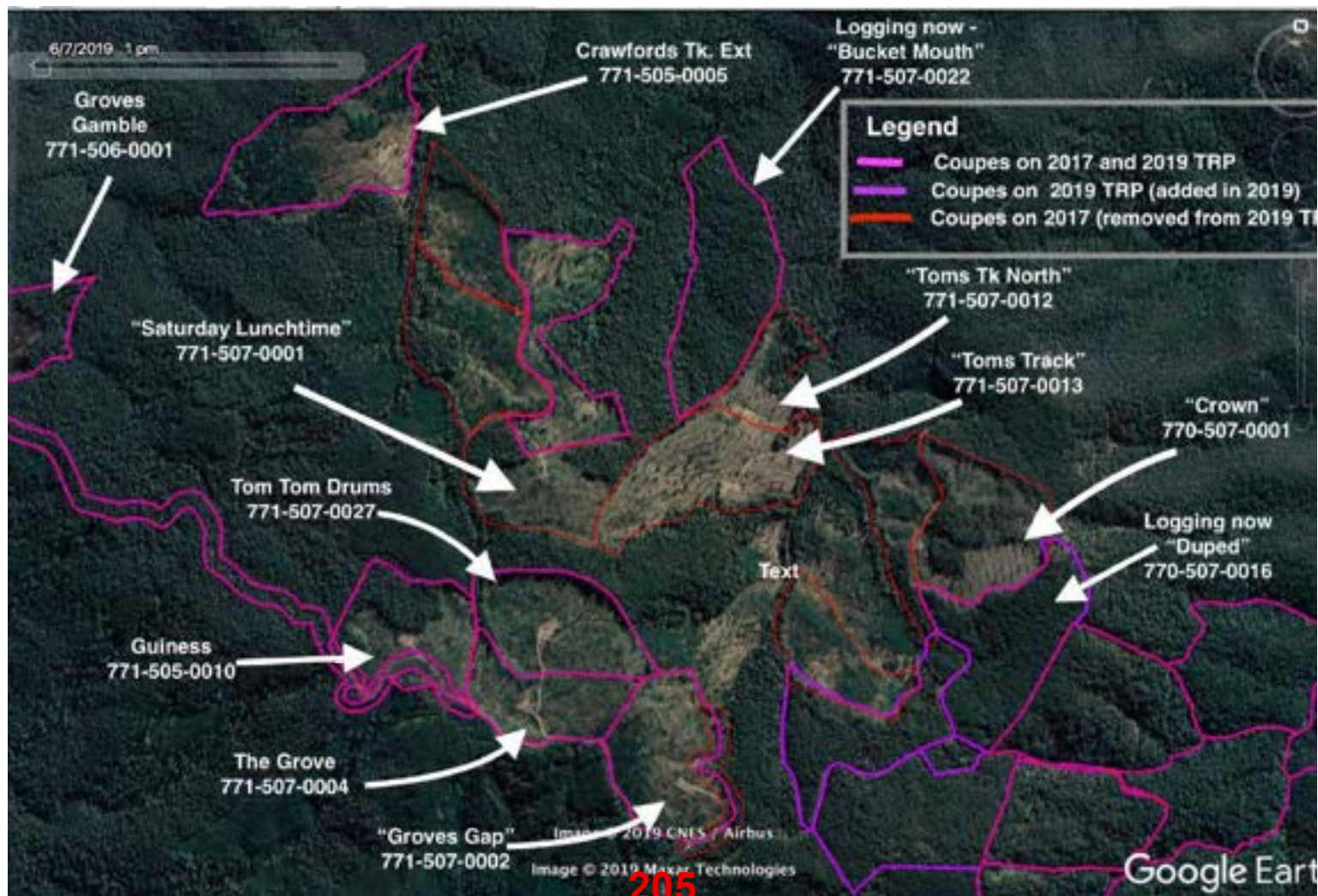
The evidence presented below shows that at least three coupes have been removed from the TRP that have not met the minimum regenerations standards outlined in the Management Standards and Procedures.

## FAILED REGENERATION COUPES REMOVED FROM TRP

In April 2019 VicForests removed at least seven coupes in the Mt Delusion from the TRP that have clearly failed to regenerate. This appears to be a breach of the conditions of the Allocation Order and therefore a breach of Sustainable Forests (Timber Act).

These coupes are Saturday Lunchtime 771-507-0001, Toms Tk North 771-507-0012, Toms Track 771-507-0013 and Crown 770-507-0001, Paspalum 773-501-0022, Buffalo Grass 773-501-0008 and The Farm 722-504-0005. Additionally, New Rush Clearfell 771-507- 0014 (logged in 2011) has also failed to regenerate and was removed from the TRP some years ago.

**FIGURE 1:** Overview of Mt Delusion coupes with failed regeneration coupes (See ages on page 9 for coupes Paspalum 773-501-0022, Buffalo Grass 773-501-0008 and The Farm 722-504-0005.





### SATURDAY LUNCHTIME 771-507-0001:

This coupe was Alpine Ash forest. It was logged January 2016 and removed from the TRP in April 2019. Satellite imagery indicates this coupe has failed to regenerate and on ground site inspections confirmed this.

This coupe is contiguous with “Toms Track” and “Toms Track North” coupes that have also been removed from the TRP, see overview image above. Together these coupes form an area of approximately 63 hectares that was Alpine Ash forest and is now dominated by grasses and introduced blackberry.

**PHOTO 1:** ‘Saturday Lunch’ time coupe in October 2019 after removal from TRP, grasses and blackberry are the dominant vegetation



**PHOTO 2 AND 3:** Old growth Alpine Ash stumps, logged in Saturday Lunchtime coupe in 2016





## “TOM’S TRACK NORTH” 771-507-0012

This coupe was Alpine Ash forest, it was logged in 2010 / 2011 and removed from the TRP in 2019. Site inspection clearly showed it has failed to regenerate.

**PHOTO 4 AND 5:** Toms Track North coupe in October 2019





### “TOM’S TRACK” 771-507-0013

This coupe was Alpine Ash forest, it was logged in 2010 / 2011 and removed from the TRP in 2019. Site inspection clearly showed it has failed to regenerate. Grasses and introduced Blackberry is the dominant vegetation.

**PHOTO 6 AND 7:** Toms Track coupe in October 2019



## “CROWN” 770-507-0001 - FAILED REGENERATION

## “DUPED” 770-507-0016 - ACTIVE LOGGING (NOVEMBER 2019)

The Crown coupe was logged in 2016, it was mature Alpine Ash mapped as old growth forest by the Modelled Old Growth 2009 data set. It was removed from the TRP in 2019. Satellite imagery shows this coupe has failed to regenerate. The Crown coupe is directly adjacent to the ‘Duped’ coupe where logging is occurring at the time of writing (November 2019). According to VicForests coupe plan for ‘Duped’ the coupe is being logged with the clearfell silviculture method which is the standard method for harvesting Alpine Ash forests. It is the same method employed in other coupes in the area that have failed to regenerate.

The Duped coupe was added to the TRP in April 2019 when the ‘Crown’ coupe was removed from the TRP. The Duped harvest plan map displayed at Fig 2 shows the harvest boundary on the north west end of the coupe will directly align with the area of failed regeneration in the Crown coupe.

It is the view of our organisation that no further coupes should have been added to TRP in the Mt. Delusion area (Mc Guinness Creek, Strobridge, East Wentworth, Mt Delusion forest blocks) until VicForests can ensure their harvesting will not result in failed regeneration and until they have successfully regenerated all coupes in the area. Additionally, no further logging should occur in coupes already existing on previous iterations of TRPs in this area until these issues are resolved.

A number of high conservation values have been detected within the ‘Duped’ coupe including Powerful Owl, Sooty Owl and Greater Glider and hollow bearing trees that these species rely upon for habitat. The significant extent of failed regeneration in this area has greatly reduced habitat availability for these species yet VicForests continues to log in areas where these species have been found using harvest and regeneration systems that are failing to ensure appropriate regeneration and are demonstrably leading to a significant reduction in habitat for threatened species. VicForests continues to log Alpine Ash forests in this area despite clear evidence that its regeneration systems are failing.

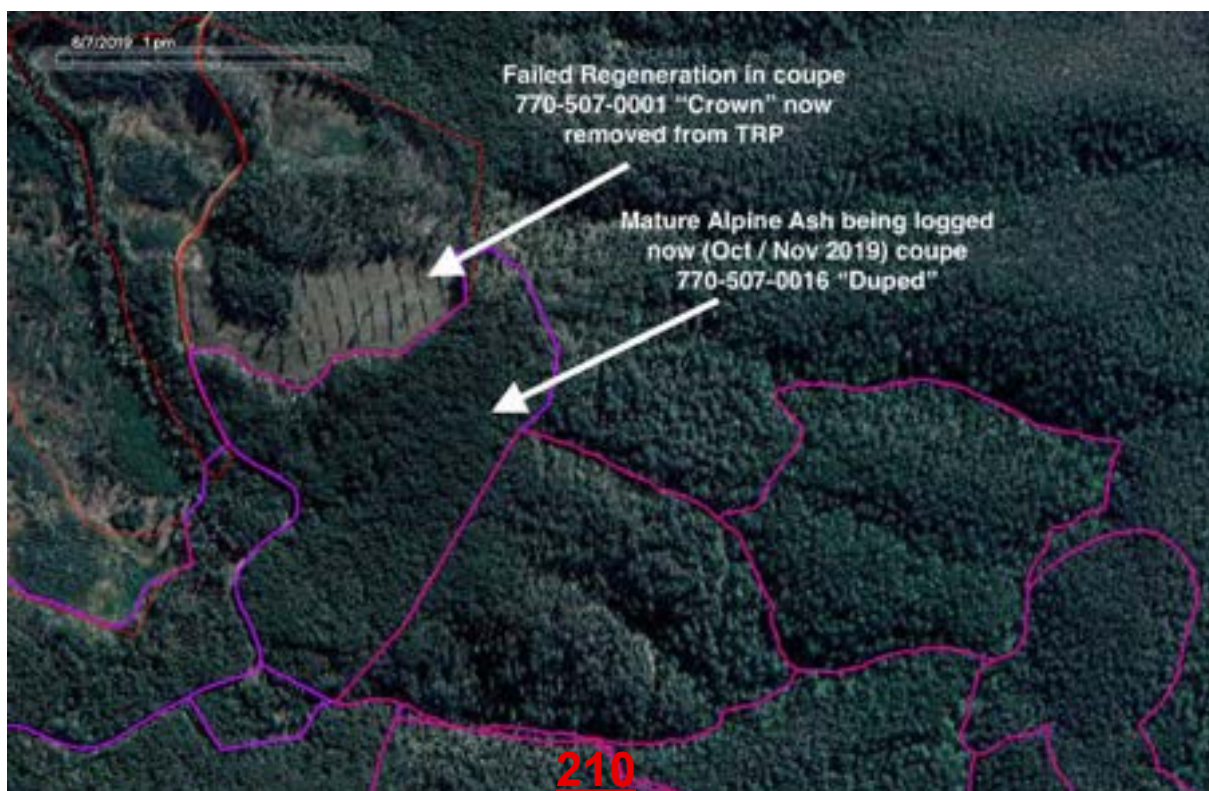
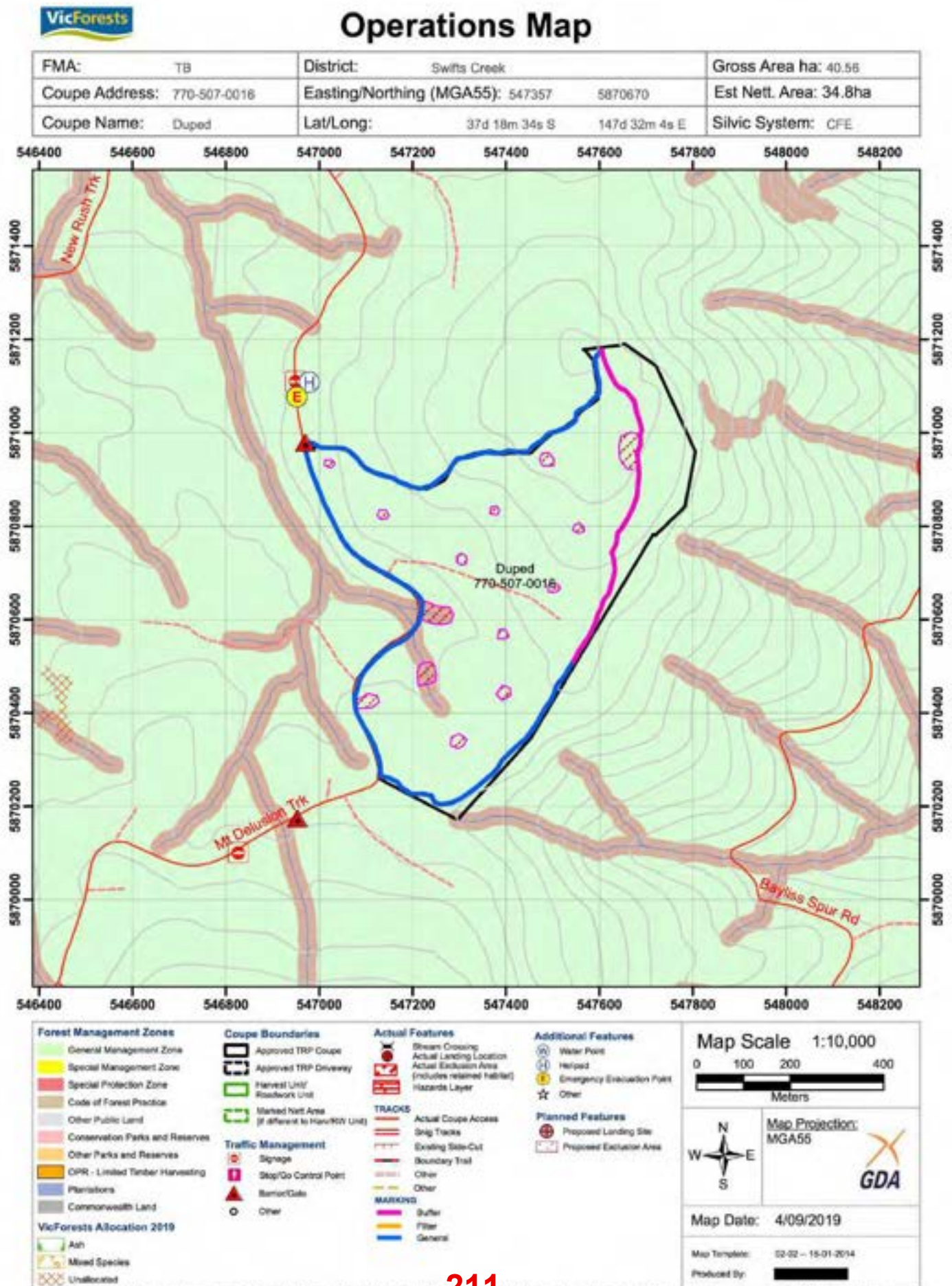




FIGURE 2: VICFORESTS OPERATIONS MAP FOR 'DUPED' COUPE





## PASPALUM 773-501-0022 AND BUFFALO GRASS 773-501-0008

Paspalum coupe was logged in 2015 and Buffalo Grass in mid 2016. Both coupes are failing to regenerate and have now been removed from the TRP



## THE FARM - 722-504-0005

This coupe was logged in 2011 and removed from the TRP in April 2019, it has failed to regenerate, see image below, The Farm coupe is outlined with red.



## COUPES REMAINING ON THE TRP THAT ARE FAILING TO REGENERATE

Several other coupes in the Mt Delusion area are failing to regenerate that remain on VicForests TRP. These are: 771-507-0002 Groves Gap, 771-507-0002 Groves Gamble, The Grove 771-507-0004, Tom Tom Drums's 771-507-0027, Guinness 771-505-0010, Crawfords Tk. Ext. 771-505-0005 and

There does not appear to be any regeneration efforts occurring in these coupes. Based on the recent removal from the TRP of the un regenerated coupes detailed above these coupes may also be removed in breach of the Allocation Order conditions and Sustainable Forests (Timber) Act 2014.

### 771-507-0002 GROVES GAP

This Alpine Ash coupe was logged in 2016 and 2017. The post logging burn has killed almost every retained tree. The area has failed to regenerate and is now dominated by grasses and scattered wattle shrubs.





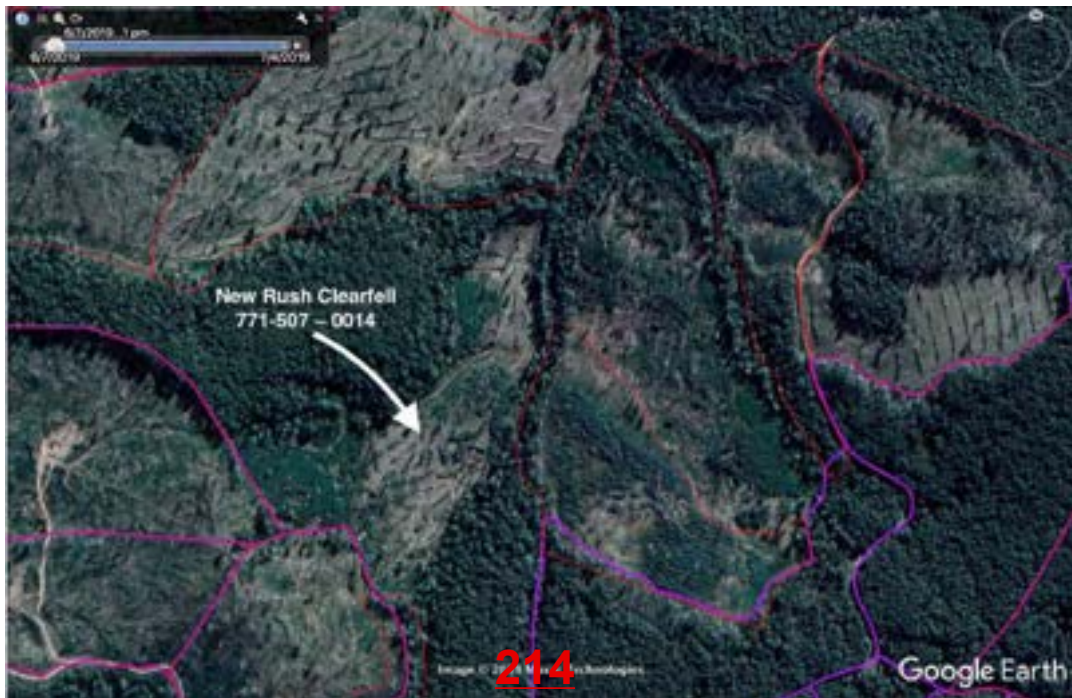
## 771-507-0002 GROVES GAMBLE

This Alpine Ash coupe was logged in mid 2017. The area has failed to regenerate and is now dominated by grasses and bracken.



## NEW RUSH CLEARFELL 771-507- 0014

This Alpine Ash coupe was logged in 2011. The area has failed to regenerate and is now dominated by grasses. This coupe has been removed from the TRP but it is unclear when it was removed.



This report has not detailed the full extent of failed regeneration in the Mt Delusion area, it is critically important that DELWP and DJPR investigate to determine the full extent of failed regeneration. This report focusses on seven coupes that were removed from the TRP in 2019, however it appears the practice of removing coupes that have not regenerated has been occurring for some time.

## **RECOMMENDATIONS:**

Based on the evidence provided in this report that VicForests has removed coupes from its TRP that have failed to regenerate and therefore breached the conditions of the Allocation order and the Sustainable Forests (Timber) Act (2014) we make the following recommendations to DELWP and the Department of Job Precincts and Regions (DJPR).

- Prosecute VicForests for breaching conditions of the Allocation order and STF Act.
- Curtail logging in Mc Guinness Creek forest block, Strobridge forest block, East Wentworth forest block, Mt Delusion forest block and all areas of forest above 1000m altitude where failed regeneration appears to be most common.
- Issue a directive to VicForests pursuant to S70 of the Sustainable Forests (Timber) Act to immediately cease logging in the 'Duped' coupe and 'Bucket Mouth' coupe on the basis that any further impacts to the forests caused by operations in those coupes may be permanent due to the legacy of failed regeneration in the Mt. Delusion / Mc Guinness Creek areas.
- Conduct a state-wide audit of failed regeneration within the VicForests 'working forest areas' allocated to VicForests through the Allocation Order and take appropriate regulatory action against VicForests for any breaches relating to failed regeneration and removal of coupes from TRPs.
- Provide a statement of reasons as to why Saturday Lunchtime 771-507-0001, Toms Tk North 771-507-0012, Toms Track 771-507-0013 and Crown 770-507-0001, Paspalum 773-501-0022, Buffalo Grass 773-501-0008 and The Farm 722-504-0005 coupes were removed from the TRP and details of what oversight DJPR / DELWP had over the removals process.

We also make the following recommendations and requests to VicForests:

- Cease logging in the 'Duped' coupe and 'Bucket Mouth' coupe on the basis that any further impacts to those forests caused by operations in those coupes may be permanent due to the legacy of failed regeneration in the Mt. Delusion / Mc Guinness Creek areas.
- Provide a statement of reasons for why the Saturday Lunchtime 771-507-0001, Toms Tk North 771-507-0012, Toms Track 771-507-0013 and Crown 770-507-0001, Paspalum 773-501-0022, Buffalo Grass 773-501-0008 and The Farm 722-504-0005 were removed from the TRP in April 2019.
- Provide a written explanation as to how High Conservation Values such as Greater Gliders, Yellow Bellied Glider, Masked Owl, Powerful Owl and Sooty Owl will be maintained and not threatened in the Bucket mouth and Duped coupes.
- Place a moratorium on all logging in the Mc Guinness Creek forest block, Strobridge forest block, East Wentworth forest block, Mt Delusion forest block until all areas of failed regeneration are successfully regenerated and silviculture and regeneration systems are reformed so they can demonstrably avoid failed regeneration.





# Conservation Regulator

Department of Environment Land, Water and Planning

Ed Hill  
Goongerah Environment Centre (GECO)  
By email only: [geco@geco.org.au](mailto:geco@geco.org.au)

Ref: 2019-0073

Dear Mr. Hill,

## INVESTIGATION OUTCOME

### VICFORESTS TIMBER HARVESTING OPERATIONS AT MT. DELUSION, EAST GIPPSLAND

On 3 November 2019, the Timber Harvesting Compliance Unit (**the THCU**) of the Conservation Regulator received information alleging non-compliance with the *Code of Practice for Timber Production 2014 (the Code)* and the incorporated *Management Standards and Procedures for timber harvesting operations in Victoria's State forests 2014 (the MSPs)* at multiple coupes near Mt Delusion, East Gippsland. Please find below the matters investigated and the THCU's findings.

***Allegation 1: That VicForests had removed multiple coupes at Mt Delusion, East Gippsland from the Timber Release Plan (TRP), despite unsuccessful regeneration.***

The relevant prescriptions are:

#### Code

- 2.1.1.1** Long-term forest management planning must:
  - vii.** facilitate effective regeneration of harvested forest.
- 2.6.1.1** Planning and management of timber harvesting operations must comply with relevant regeneration measures specified within the Management Standards and Procedures.
- 2.6.1.5** Regeneration must aim to achieve the approximate canopy floristics that were common to the coupe prior to harvesting, if known.
- 2.6.1.6** Silvicultural methods for regeneration must suit the ecological requirements of the forest type, taking into consideration the requirements of sensitive understorey species and local conditions.
- 2.6.1.7** Harvested coupes must be regenerated as soon as practical, including follow up or remedial action in the event of regeneration failure.

#### MSPs

- 9.1.1.1** For even-aged stands, conduct stocking surveys 15-30 months after sowing/seed fall or planting.
- 9.1.1.2** Successfully stocked even-aged regenerating forests must have:
  - (a)** at least 1 acceptable seedling in 65 % of 2.27 m radius (16 m<sup>2</sup>) plots placed on a 20 m by 80 m systematic grid or at least 1 acceptable seedling in at least 55 % of 2.27 m radius (16 m<sup>2</sup>) plots placed on a 20 m by 40 m systematic grid; and
  - (b)** no discrete area greater than 1 ha with less than 400 stems per hectare.
- 9.1.1.8** Where stocking, health or early growth is inadequate, remedial work must be conducted as soon as practicable and within 5 years of the previous regeneration attempt to obtain adequate regeneration. Further assessment must be undertaken following remedial treatment to ensure that it has been successfully regenerated.

Any personal information about you or a third party in your correspondence will be protected under the provisions of the *Privacy and Data Protection Act 2014*. It will only be used or disclosed to appropriate Ministerial, Statutory Authority, or departmental staff in regard to the purpose for which it was provided, unless required or authorized by law. Enquiries about access to information about you held by the Department should be directed to [foi.unit@delwp.vic.gov.au](mailto:foi.unit@delwp.vic.gov.au) or FOI Unit, Department of Environment, Land, Water and Planning, PO Box 500, East Melbourne, Victoria 8002.



Finding: No breach detected.

VicForests' regeneration program consists of preparing sites where timber harvesting has occurred, the establishment of eucalypt seedlings across the net harvested areas and a series of seedling stocking surveys to measure regeneration success. Coupes that have been surveyed and demonstrated to have adequate stocking of the eucalypt species that were present prior to timber harvesting are then nominated for coupe finalisation.

DJPR Forest Industry Policy are responsible for monitoring VicForests' regeneration program in accordance with the 5-year harvest area limit. VicForests provides DJPR an Annual Harvesting Report, coupe finalisation list and associated spatial data.

There is no direct evidence that VicForests' regeneration stocking surveys are not an accurate reflection of the regeneration status of the coupes when the surveys were undertaken, or that regeneration did not comply with the Code and MSP requirements.

Factors including grazing by cattle/deer, as well as competition from dense grass cover and blackberry may have contributed post-surveying to areas becoming unstocked, however there is insufficient evidence to determine a definitive cause.

The coupes referenced in the source report that are alleged to have unsuccessfully regenerated and are currently listed on the TRP have been referred to the Coupe Inspection Program (CIP). The CIP provides valuable intelligence of emerging patterns of non-compliance, which is integral in determining future audit, inspection, and compliance focus.

Regarding the coupes which are no longer on the TRP, the Conservation Regulator is exploring alternative options within DELWP to address the regeneration of native forests. VicForests may be consulted to consider involvement in further attempts to regenerate identified areas.

If you have any questions or would like to discuss this matter further, please contact the THCU at [forest.reports@delwp.vic.gov.au](mailto:forest.reports@delwp.vic.gov.au).

Yours sincerely,



**Matthew ZANINI**  
Manager, Timber Harvesting Compliance Unit  
**Office of the Conservation Regulator**

Date: 12 / 04 / 2021

## Appendix 4

### After the Logging

Failing to regrow Victoria's native forests.





## Department of Jobs, Precincts and Regions

GPO Box 4509  
Melbourne,  
Victoria 3001 Australia  
Telephone: +61 3 9651 9999  
DX 210074

Our ref: 4842

Ms Margaret Blakers,  
GPO Box 2234  
Canberra ACT 2601

By email: [margaret.blakers@bigpond.com](mailto:margaret.blakers@bigpond.com)

Dear Ms Blakers,

### **FREEDOM OF INFORMATION - NOTICE OF DECISION – REF: 4842**

I refer to your request under the *Freedom of Information Act 1982* (FOI Act) transferred and received by the Department of Jobs, Precincts and Regions on 4 May 2021 seeking access to:

*'How many coupes proposed for finalisation by VicForests were not accepted by DELWP in each of the following years: 201314, 201415, 201516, 201617, 201718, 201819, 201920? Please list the coupes (coupes number and name)'*

#### **Right of access**

The FOI Act provides the public with the right of access to documents held by state government agencies and official documents of ministers. However, in order to protect essential public interests, for example, the privacy of individuals and certain business affairs, this right of access does not apply to documents that are identified as exempt under the FOI Act.

The FOI Act also allows agencies and ministers to partially release documents if practicable to do so and if the applicant would wish to access such documents.

#### **Document search**

The Forestry and Climate Change branch of DJPR is responsible for forestry services. The Forestry and Game Unit undertook a search for the requested information. I am advised that there were no coupes proposed for finalisation by VicForests not accepted by DELWP, DJPR or their predecessors in the years listed in your request.

Prior to October 2013, coupes nominated by VicForests as successfully regenerated were audited by the then Department of Sustainability and Environment prior to being transferred back to the Crown. However, amendments to the *Sustainable Forests (Timber) Act 2004* changed that process.



In light of this process, VicForests were unable to locate any documents relating to the terms of your request as coupes are no longer proposed for finalisation and then accepted or rejected.

### **Complaint to the Victorian Information Commissioner**

If you wish to complain about an aspect of how this request was processed, you may make a submission in writing to the Office of the Victorian Information Commissioner within 60 days of the date of the action you are complaining about. For further information about the process, please visit the Commissioner's website at <http://ovic.vic.gov.au> or telephone 1300 006 842.

### **Contact**

Please feel free to contact me by email at [foi@ecodev.vic.gov.au](mailto:foi@ecodev.vic.gov.au) if you have any questions about this decision.

Yours sincerely

A handwritten signature in blue ink, appearing to be 'K. Kulman', with a long horizontal stroke extending to the right.

Kate Kulman  
Manager - Freedom of Information Unit  
Legal and Legislation

03/06/2021

## Appendix 5

### After the Logging

Failing to regrow Victoria's native forests.



# **Nippon Paper Industries and the Wood Pulp Agreement**



**Working Report No.1**

**Author: Dr. Chris Taylor  
April 2018**

**Working Paper commissioned by Margaret Blakers and Sarah Rees**

We welcome constructive comments on this working report.  
This report was supported by Margaret Blakers, Sarah Rees and Brunswick Friends  
of the Forest

20 April 2018 (v7.2)



## Executive Summary

This report reviews the origin and history of successive legislative agreements under which pulp logs are supplied to Nippon Paper Industries Co. Ltd's Maryvale pulp and paper processing mills in Gippsland. It provides an analysis and review of the forests impacted by the current Legislative Supply Agreement (LSA), otherwise referred to as the Forests (Wood Pulp Agreement) Act 1996. This report focuses on the Mountain Forests covering large areas of Gippsland and its state forests. A spatial analysis of disturbance in the Mountain Forests has been carried out and the report also reviews academic and government literature concerning the forests' capacity to supply wood to Maryvale.

The report covers the following points:

- The Maryvale Mills were originally established in 1938 on the premise that they had a 50-year legislated supply of pulp logs from Victorian state forests, where most of the supply comes from the 'Mountain Forests', consisting of Mountain Ash and Alpine Ash;
- The present LSA was passed in 1996 on the premise that the Maryvale Mills, then owned by AMCOR Ltd, reduce their dependence on sourcing pulplogs from native forests and substitute these with pulplogs from plantations;
- In 2008, then owner PaperlinX Ltd announced its intention to exit native forests completely by 2017, having completed an upgrade of the Maryvale facilities and secured an additional supply of native forest pulp logs under a Timber Sales Agreement with VicForests;
- In 2009, Nippon Paper Industries Co. Ltd acquired PaperlinX Ltd together with the LSA. It has made no move to reduce dependence on native forest wood. However, declining supply from within the LSA area is being compensated by additional supplies from elsewhere in Victoria at an unknown cost to the taxpayer;
- No other company in the logging industry has been afforded the privilege of a legislative supply agreement, which will have endured for 94 years, if it survives as legislated, until 2030;
- More than half of the forest allocated to logging within the LSA area has been burnt since the passing of the LSA in 1996;
- The Mountain Ash Ecosystem within the LSA is now red listed by the IUCN as Critically Endangered, with logging as the primary driver compounded by bushfire (Burns, et al., 2014);

- The LSA provides for the company and the government to share information and plan jointly for the supply of pulp logs. The Act has flexibility for the government to respond to major disturbance events, such as fire.

The report concludes that this is crunch time – the Mountain Forest ecosystem faces collapse and the LSA is unsustainable. It proposes urgent consideration of the following:

1. that all reviews carried out under Clause 12 of the Forests (Wood Pulp Agreement) Act 1996 be published;
2. that the annual Plan of Utilization agreed between Paper Australia Pty Ltd and the government be published for each year from 2013 when VicForests announced reductions in Ash sawlog supply;
3. that the proposed Plan of Utilization for 2018, due to be prepared by 30 April, be published; and
4. that the Victorian Government invoke the provisions of Clause 32 of the Act and potentially suspend the legislated supply of pulp logs, given that more than half of the state forest allocated to logging under the LSA has been impacted by recent fires.

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# 1. Introduction

The native forest logging industry in Victoria has experienced a dramatic decline in resource availability over recent years (DEPI, 2013). This came to a crunch in 2017 when the previous owners of Australia's largest native forest sawmill, Australian Sustainable Hardwoods (ASH) in Heyfield, claimed that their business would not be commercially viable if sawlog supply was reduced to 80,000 m<sup>3</sup> per annum, as planned by VicForests. In an unprecedented move, the Victorian Government purchased the ASH sawmill and presently owns the business (Willingham, 2017). While much media attention was focused on the ASH sawmill, very little was given to the largest consumer of native forest hardwood logs in Victoria, the Maryvale Mills, owned by Nippon Paper Industries and operated by its subsidiary, Paper Australia Pty Ltd.

The Maryvale Mills, near Morwell, consume on average around 500,000 m<sup>3</sup> per annum of pulp logs from native forests across Victoria. The State of Victoria is legally bound to supply at least 350,000 m<sup>3</sup> under a long term Legislated Supply Agreement (LSA), the *Forest (Wood Pulp Agreement) Act 1996*. The company also has a Timber Sales Agreement with the Victorian Government's logging business, VicForests (VicForests, 2008). The intention of the original long term LSA, legislated in 1936, was to provide investment certainty for the initial developers of the Maryvale Mills, Australian Paper Manufacturers Ltd, to construct a major domestic pulp and paper processing facility at the Maryvale site in the Gippsland region of Victoria (Sinclair, 1991). No other business purchasing logs from the Victorian Government and/or VicForests has been granted the privilege of such a guaranteed long-term supply.

Under normal circumstances, the obligated volumes under the LSA can only be altered with the consent of the company. This has restricted flexibility with regards to allocating pulp logs to any other potential market (URS, 2010) and prevented forest management adequately adapting to changing conditions across the forest ecosystem (e.g. (Lindenmayer & Franklin, 2002)). The Victorian Government can alter or terminate the LSA if damage beyond its control makes it impractical to supply the legislated pulp log volumes (State of Victoria, 1996). The LSA requires the state to carry out a review of pulp wood in the area covered by the Agreement at least once every five years and to advise the company of the results of the review. Major fires have burnt across the LSA since the passing of the *Forests (Wood Pulp Agreement) Act 1996*, impacting large areas of state forest providing pulp logs to the Maryvale Mills. It is not clear whether the five-year reviews have taken place on time or at all and whether the recent fires have been taken into account in forecasting the supply of pulp logs under the LSA.

The Maryvale Mills have been under continuing pressure to cease consuming pulp logs from native forests and source fibre solely from plantations and

recycling. Previous owners of the Maryvale Mills committed to downsizing their intake from native forests and, in 2005, proposed to obtain all of their pulp log supply from plantations by 2017 (PaperlinX Ltd, 2006). However, these commitments were never implemented. The Maryvale Mills continue to source part of their supply from Victoria's native forests, despite the increased capacity of the state's plantation estate (ABARES, 2017) and the perilous state of the native forests from which the pulp logs are drawn.

Paper Australia Pty Ltd is considering major changes in its Maryvale operations. In 2017, it began a \$7.5 million feasibility study for a Waste to Energy project using waste from Melbourne. The Commonwealth and Victorian governments have each contributed \$2.5 million to the study (Nash, et al., 2017). The company has floated the possibility of diverting lignin, a by-product of pulp-making currently burnt for energy, into a feedstock for manufacturing 'bio products' such as bioplastics. Paper Australia Pty Ltd states that "a long term non-contentious supply of economic wood is essential" for its plans (Paper Australia Pty Ltd, 2018).

The purpose of this report is to describe the current operation of the Maryvale Mills and to review the LSA that has bound the Victorian Government to supply pulp logs to them. It spatially analyses the condition of the forests within the LSA and reviews their capacity to supply pulp logs. The report provides suggestions for pathways forward, including the enacting the specific clauses of the *Forests (Wood Pulp Agreement) Act 1996* that allow for legislated pulp log volumes to be amended or even suspended in response to major disturbance events.

## **2. The Nippon Paper Group and Paper Australia Pty Ltd**

Paper Australia Pty Ltd (trading as Australian Paper) is a subsidiary of Nippon Paper Industries based in Japan. It is the product of a long line of mergers and acquisitions, dating back to 1868, when Ramsden's Melbourne Mill was built on the banks of the Yarra River opposite the site now occupied by Flinders Street Station (Sinclair, 1991). The business merged with other mills in Victoria at Broadford and Geelong, as well as mills in New South Wales. In 1920, it became the Australasian Paper and Pulp Co. and then Australian Paper Manufacturers Ltd in 1926. In 1937, following passage of the first legislated wood supply agreement by the Victorian government, it began constructing the first of a series of pulp mills at Maryvale (Sinclair, 1991).

Australian Paper Manufacturers Ltd diversified its operations to cover not only pulp and paper production, but also sawmilling, manufacturing of particle board, packaging and even minerals extraction and transport (Sinclair, 1991). It formed partnerships with several major companies, including Colonial Sugar Refining Co Ltd (CSR) under the subsidiary Pyneboard Pty Ltd. With the acquisition of Containers Ltd between 1980 and 1983, Australian Paper

Manufacturers Ltd greatly expanded its capacity to become one of Australia's largest packaging companies with factories in all the mainland states (Sinclair, 1991).

Over much of this time, Australian Paper Manufacturers Ltd undertook logging and forest management and, in 1951, formed APM Forests Pty Ltd. This subsidiary acquired a total of 34,065 hectares of freehold land to plant pines, of which 18,772 hectares were converted from eucalypt forest (Sinclair, 1991). It began establishing pine and eucalypt ash plantations in the Strzelecki Ranges, south of Maryvale, in 1960 (Noble, 1986). The Victorian Government also leased a part of the Strzelecki Ranges to APM Forests Ltd under a special Act of Parliament to support further establishment of plantations (Carron, 1985).

In the mid-1980s, Australian Paper Manufacturers Ltd sought to identify itself under a 'common' name to reflect the diversity of its investments and interests. The name 'AMCOR Ltd' was selected in 1986 with the approval of the company's shareholders. The acronym APM was maintained for AMCOR Ltd's pulp and paper division and related corrugated fibre box making operations (Sinclair, 1991). AMCOR Ltd created a wholly owned subsidiary, PaperlinX Ltd, to manufacture and distribute its fine papers and virgin-fibre based packaging papers across Australian and New Zealand markets. The manufacturing arm of PaperlinX Ltd was Paper Australia Pty Ltd, which was known in the market as *Australian Paper*. Paper Australia Pty Ltd manufactured pulp, communication papers and packaging papers from 11 paper machines, one coating machine, six pulp mills and two recycling plants across four locations in Australia (AMCOR Ltd, 2000). Paper Australia Pty Ltd's pulp mills and paper machines were integrated, with all of PaperlinX's pulp production used by its subsidiary's paper machines. The Maryvale Mills were the largest.

In 1993, the Australian Competition and Consumer Commission (ACCC) permitted AMCOR Ltd to acquire Associated Pulp and Paper Mills (APPM) from North Broken Hill Peko Ltd, including paper mills at Burnie and Wesley Vale in Tasmania and at Shoalhaven in NSW (Fels, 1996). PaperlinX Ltd became the sole Australian producer of fine communication papers (AMCOR Ltd, 2000). Through its REFLEX™ brand, PaperlinX also became the largest supplier of office papers in Australia and New Zealand, with market shares of approximately 60% and 45%, respectively (AMCOR Ltd, 2000).

In the late 1980s and 1990s, AMCOR Ltd expanded its packaging operations across Australia and internationally, following considerable growth in the sector. Packaging became the largest contributor to its sales which, in 1999, accounted for 76% of AMCOR Ltd's group earnings before interest, abnormal items and income tax (EBIT) (AMCOR Ltd, 2000). AMCOR Ltd's packaging businesses included specialty printed cartons, high value-added flexible plastic packaging, polyethylene terephthalate (PET) containers for the food and beverage industry, specialty plastic packaging, corrugated and other packaging products. AMCOR Ltd had established itself as Australia's leading



paper and packaging company. It became one of the country's top 35 companies, as ranked by market capitalisation (AMCOR Ltd, 2000).

In February 2000, the AMCOR Ltd Board of Directors announced a proposal to demerge its Paper Operations under a separate company, PaperlinX Ltd, and AMCOR Ltd would focus on its Packaging Operations:

*The Demerger Proposal recognises the gradual divergence which has taken place over time of the respective objectives and strategies of Amcor and PaperlinX. While the production ties between the businesses once formed an integral part of Amcor, the development of highly successful businesses in offshore packaging and domestic fine paper manufacturing has lessened the strategic value of retaining the businesses under common ownership (AMCOR Ltd, 2000, p. 12).*

*It is the Board's considered opinion that the Demerger Proposal will provide the focus and structure to enable both the Packaging Operations and the Paper Operations to pursue independently the opportunities and strategic direction that will best equip them to thrive in a dynamic competitive environment. Furthermore, the Demerger Proposal is viewed as the most advantageous of a number of considered alternatives to achieve both these strategic objectives and the key corporate objective of maximising shareholder value (AMCOR Ltd, 2000, p. 12).*

In the demerger, PaperlinX Ltd was listed as a separate company on the ASX. Paper production and direct sales were conducted through its subsidiary, Paper Australia Pty Ltd, trading as 'Australian Paper'. Ownership of the Maryvale Mills was transferred to PaperlinX Ltd (AMCOR Ltd, 2000).

PaperlinX Ltd also continued to manage the APM Forests Ltd estate under the name Australian Paper Plantations (APP); the total area comprising 52,200 planted hectares of pine and eucalypt (AMCOR Ltd, 2000). However, in the following year, PaperlinX Ltd sold Australian Paper Plantations for \$152 million to Hancock Victorian Plantations. The company saw no need to retain the plantations because it had already secured fibre supplies for the Maryvale Mills through long term supply agreements for plantation hardwood and softwood, as well as from a longer term legislative supply agreement for pulp logs sourced from state forests. The divestment saw PaperlinX Ltd focusing solely on paper manufacturing and merchanting (PaperlinX Ltd, 2001).

In 2005, PaperlinX Ltd approved the installation of a new elemental chlorine free (ECF) bleaching plant and upgrade of its existing kraft pulp mill at the Maryvale Mills with the aim of becoming self-sufficient in pulp at a substantially lower cost (Australian Paper, 2005). The installation and upgrade were completed in 2008. However, PaperlinX Ltd (2009) encountered adverse conditions in the paper market around this time, which had a substantial negative impact on the company's operating earnings:

*The 2009 year saw an unprecedented fall in demand for paper in all key markets as a result of the global economic slowdown. Paper volumes fell sharply from October 2008 off an already depressed base, and remained weak through the balance of financial year 2009 (PaperlinX Ltd, 2009, p. 2).*

To address increasing debts, PaperlinX Ltd (2009) sold its subsidiary, Paper Australia Pty Ltd, along with its assets in the Maryvale and Shoalhaven Mills, to Nippon Paper Industries Co. Ltd for \$600 million, plus net asset adjustments and a potential earn-out over three years. This was the first time that sole ownership of the Maryvale Mills moved offshore. The acquisition expanded Nippon Paper Industries Co. Ltd's presence in the Australian market (Nippon Paper Group Inc, 2009).

Nippon Paper Industries Co. Ltd describes itself as a comprehensive biomass company that covers businesses manufacturing paper cartons, healthcare products and a variety of new materials, including cellulose nanofiber (Nippon Paper Industries Co Ltd, 2017). It comprises an extensive network of 175 Group companies in Japan and in 15 other countries (Nippon Paper Industries Co Ltd, 2014). It was ranked 10<sup>th</sup> in the top 100 global forest, paper and packaging companies in 2015, with sales of US \$8.3 billion (Price Waterhouse Coopers, 2016).

In 2016, Nippon Paper Industries Co. Ltd (2017) consumed nearly 4.5 million bone dry tonnes (BDt) of woodchips, its main raw material for paper manufacturing. It produced 4.12 million tonnes of paper and 1.67 million tonnes of paperboard. In 2013, Nippon Paper Industries Co. Ltd imported 2.6 million BDt of wood chips and other wood products, comprising 63% of its total procurement of wood (Nippon Paper Industries Co. Ltd, 2013). The company has positioned Australia, South Africa and Chile as procurement bases, which were established under long-term purchasing contracts with major local suppliers. The company also engaged in afforestation projects across Victoria, including the Green Triangle, Portland Treefarm and Victoria Treefarm Projects (Nippon Paper Group Inc, 2005). Victorian plantation management enterprise and woodchip exporter, Midway Limited, has a long established standing commercial relationship with Nippon Paper Industries Co. Ltd, being its first customer in 1986 (Midway Limited, 2016).

### **3. The Maryvale Mills**

The Maryvale Mills (Figure 1) are the largest pulp and paper manufacturing facilities in Australia. In total, the facilities consist of three pulp mills, five papermaking machines, an ECF Lite bleach plant, a pulp lapping machine, a finishing facility, a waste paper processing plant, waste water treatment ponds and chemical recycling facilities. The primary paper outputs at Maryvale are office and packaging papers (Australian Paper, 2010). The first mill was operational in 1938, with major expansions occurring in subsequent decades (AMCOR Ltd, 2000).

The primary wood fibre inputs for the Maryvale Mills are pulp logs from native forests, hardwood and softwood plantations, offcuts from sawmills processing sawlogs from native forests and waste paper sourced from industrial recyclers and kerbside collections (Figure 2) (Australian Paper, 2005). The native forest component is divided into two categories: Mountain Forests and Mixed Species Forest (Poyry, 2011), all sourced from VicForests, the state owned enterprise responsible for the logging and sale of logs from state forests under the *Sustainable Forests (Timber) Act 2004*. The sawmill offcuts are sourced from sawmills processing sawlogs procured from VicForests. For example, nearly 30% of the annual 155,000 m<sup>3</sup> of Ash sawlogs that Heyfield Sawmill previously processed was delivered to Paper Australia in the form of woodchips (Hurley, 2017). The majority of the plantation pulp log supply is sourced from hardwood and softwood plantations managed by Hancock Victorian Plantations (HVP) (Australian Paper, 2005).



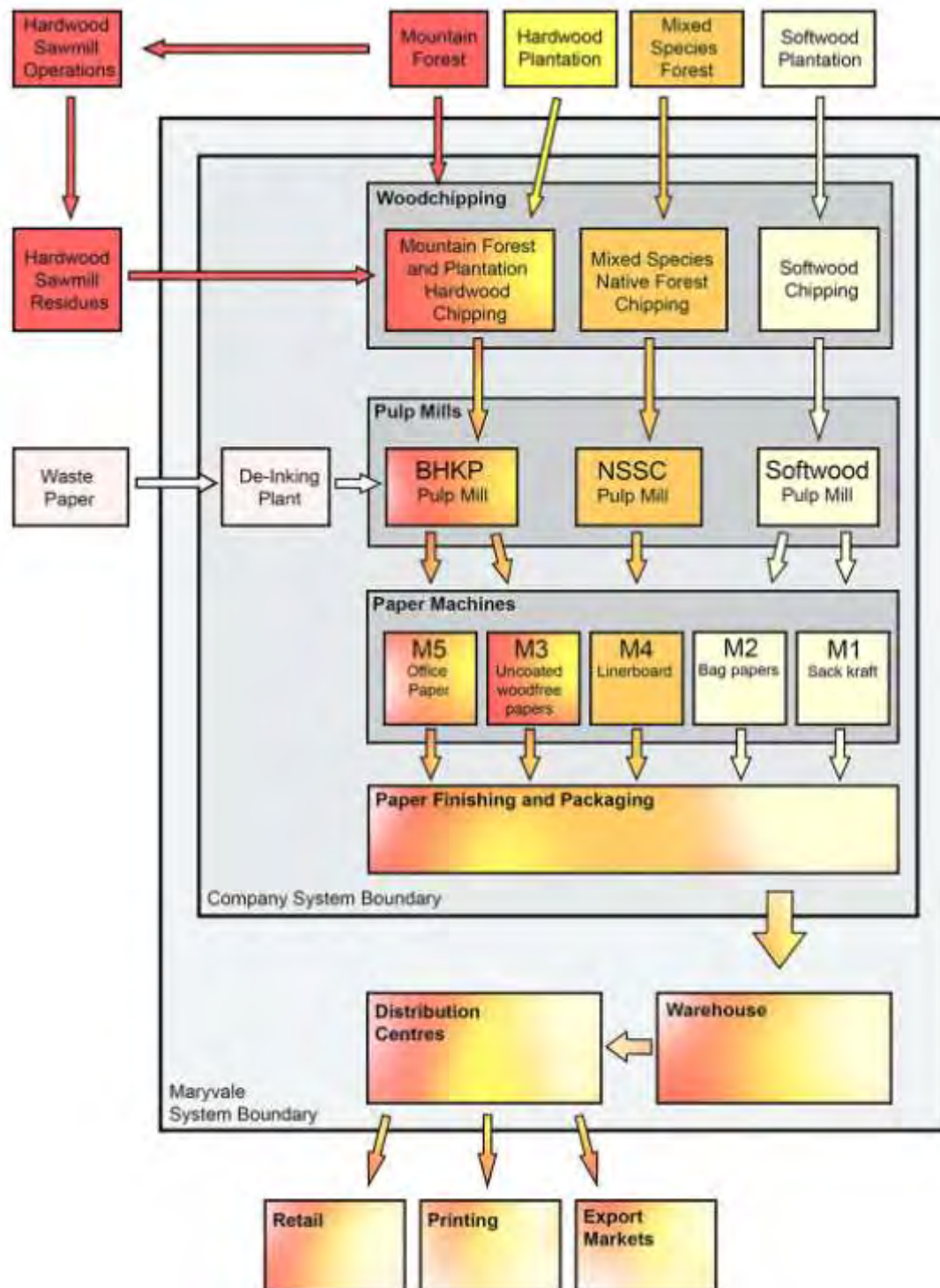
**Figure 1.** Maryvale Mills, Gippsland

The three pulp mills operating at Maryvale are:

- A Pine Kraft Mill producing pulp for liner board and sack kraft;
- A Bleached Hardwood Kraft Pulp (BHKP) mill producing bleached pulp for printing and writing paper grades; and
- A Neutral Sulphite Chemical (NSSC) mill producing a lower cost unbleached pulp, to provide stiffness for packaging boards.

The BHKP and NSSC pulp mills use hardwood woodchips sourced from VicForests and offcuts from sawmills processing native forest hardwood. These consume a total of 630,000 m<sup>3</sup> per annum (Poyry, 2011). Of this, around 500,000 m<sup>3</sup> is directly sourced from VicForests logging operations in native forest (Williams & Green, 2014).

The pine kraft pulp mill sources solely from pine plantations. The NSSC pulp mill sources solely from mixed species native forests. The BHKP pulp mill sources from both native forests and plantations, with a greater reliance on native forests, specifically, Mountain Forests (Table 1).



**Figure 2.** Wood fibre flow through the Maryvale Mills



**Table 1.** Maryvale Mills hardwood intake in 2011 (Source: (Poyry, 2011))

	BHKP Mill	Waste Paper	NSSC Mill	Pine Mill	
Mountain Forests (m <sup>3</sup> /annum)	456,000*	-	-	-	
Mixed Species Forest (m <sup>3</sup> /annum)	-	-	174,000	-	
Hardwood Plantation (m <sup>3</sup> /annum)	300,000	-	-	-	
Softwood Plantations (m <sup>3</sup> /annum)	-	-	-	N/A	
Waste Paper (t/annum)	-	10,000	-	-	
Key Products	Bleached Eucalypt Pulp	De-inked Pulp	Semi-chemical eucalypt pulp	Unbleached pine kraft pulp	
<b>Paper Machine</b>	<b>M5</b>	<b>M3</b>	<b>M4</b>	<b>M2</b>	<b>M1</b>
Key Products	Office Papers	Uncoated woodfree papers	Linerboard	Bag Papers	Sack Kraft
Capacity (t/vr)	180,000	80,000	240,000	30,000	70,000

\*Note – Mountain Forest intake includes 80,000m<sup>3</sup> of sawmill waste

Woodchips are processed into pulp through a chemical pulping process, involving a cooking process where lignin is removed from chips of wood. It is dissolved in white liquor, which is a mixture of caustic soda and sodium sulphate. Some of the woodchips are also processed into bleached pulp, producing a white pulp suitable for printing and writing papers. Oxygen is then used to dissolve and remove lignin. Chlorine dioxide, ozone and oxygen are used to break down and remove the colour from nearly all of the remaining lignin (Australian Paper, 2010).

Pulp from pine woodchips is predominantly used in the manufacture of packaging papers and mechanical communications papers. Bleached eucalypt pulp from Mountain Forests and hardwood plantations is predominantly used in the manufacture of fine communications papers. Unbleached eucalypt pulp from mixed native forests is predominantly used in the manufacture of packaging grades (AMCOR Ltd, 2000).

The processed pulp is moved to a series of paper machines (numbered M1 to M5) that further process the pulp into the specific paper products. In the machines, pulp and additives are mixed to form paper. This is a three stage process that encompasses forming, pressing and drying. A continuous paper sheet is produced, which moves onto a series of drying rollers. For fine paper, a film of starch is then applied to increase the surface strength (Australian Paper, 2010). The combined capacity of the paper machines is 620,000 t/yr.

The Maryvale Mills were expanded several times over the past several decades. In 1984, the pine kraft pulp mill was constructed along with M4, which facilitated a large increase in production of kraft linerboard for high performance corrugated containers (AMCOR Ltd, 2000). In the 1990s, the construction of the M5 Paper Machine was possibly the most significant investment, which formed the focus of a \$400 million expansion program to manufacture office paper:

*Historically, PaperlinX's sales of communication papers have been hampered by a lack of capacity, which allowed overseas producers to increase their share of the Australian market. However, the start-up of the M5 office papers machine has added 180,000 tonnes per annum of new capacity, allowing the demand for products such as office papers to be filled and new products to be developed and marketed from PaperlinX's other paper machines, including coated papers at Wesley Vale (AMCOR Ltd, 2000, p. 47).*

*PaperlinX's new M5 office papers machine at Maryvale mill was completed ahead of schedule and within budget in July 1998. The machine produces high quality office papers, including the REFLEX<sup>TM</sup> brand. Overall M5's performance has exceeded expectations, including its capability to perform in excess of the design output of 160,000 tonnes a year. During the year ended 30 June 1999, production of 220,000 tonnes of paper was repositioned between Australian Paper's machines to achieve optimal use of capacity. The new machine is now producing almost all of PaperlinX's office papers and has the potential for further increases in capacity as the office papers segment grows (AMCOR Ltd, 2000, p. 47).*

The M5 Paper Machine began production in July 1998 with a capacity of 180,000 tonnes of office papers per annum. The increased production from M5 assisted Amcor's subsidiary PaperlinX Ltd to meet demand for office papers and maintain its market share (AMCOR Ltd, 2000). This expansion coincided with the passing of the *Forests (Wood Pulp Agreement) Act 1996*, a Legislative Supply Agreement that bound the State of Victoria to provide specified volumes of pulp logs to the Maryvale Mills from state forests over a 34 year period. This agreement is part of a legacy of legislative supply agreements that began with the construction of the first Maryvale pulp mill.

## **4. The Legislative Supply Agreement (LSA)**

### **4.1 History**

The construction of the mills at Maryvale, commencing in 1936, was contingent on guaranteed access to large areas of state forest, as well as water from the Latrobe River and electricity by direct transmission from the State Electricity Commission (SEC) (Sinclair, 1991). Access to state forest was initially granted in 1936 through the Wood Pulp Agreement Bill. This agreement was part of an exclusive concession regime afforded to a number of pulp and paper production facilities, starting with Tasmania in the 1920s (Dargavel, 1995). Although Australian Paper Manufacturers Ltd itself was established in the 1920s, it was not until the mid 1930s that it looked towards Gippsland to establish a major processing facility. Introducing the Bill, Minister for Forests, Albert Lind, stated that the Wood Pulp Agreement would:

*..... enable the initiation and development of the wood-pulp and papermaking industry in Victoria from Victorian timbers, side by side with the development of our native forest areas (Lind, 1936, p. 3672).*

This LSA gave Australian Paper Manufacturers Ltd exclusive rights to draw from designated public land a minimum quantity of pulpwood and bound the State of Victoria to make available the required quantity (Lind, 1936). This was stated in Clause 14 of the Act:

*.....the Company without obtaining any lease licence permit or authority under the Forests Act 1928 shall have the exclusive right to obtain pulpwood timber— (i) from the Forest Area until the expiration of twenty years from the commencement of commercial production; and (ii) from the Mill Area during the remainder of the term of this Agreement (Victorian Parliament, 1936, p. 434).*

The area of forest for which pulp wood cutting rights were granted was divided into two categories:

- the 'Mill area' comprising 245,600 acres of reserved forest and 172,000 acres of unoccupied Crown lands to which the company had rights immediately when it commenced operations; and
- the 'Forest area', which included the Mill area and an area of 135,000 acres held in reserve, to which the company could gain access only after extension of its mills and satisfactory operation on the Mill Area.

This provided Australian Paper Manufacturers Ltd access to 550,600 acres or 222,820 hectares of state forest for a period of 50 years (Lind, 1936). This agreement was introduced because the then Forest Commission had no power to grant a supply of logs exceeding 20 years and the company was not prepared to commit to developing its mills at Maryvale unless the agreement was for 50 years (Sinclair, 1991).

*In view of the large expenditure involved in establishing the industry, and the necessity for assured supplies of raw material, it is necessary that the company be granted a long period of agreement and a period of 50 years has been decided upon (Lind, 1936, p. 3674).*

The then Forest Commission insisted that pulp wood be obtained from forest and sawmill waste, where the supply of pulp wood would follow logging operations carried out by sawmills and other timber getters (Lind, 1936). The establishment of a pulp mill provided a means for the Forests Commission to utilise the biomass left behind following sawmill logging operations. There were to be five sources of supply:

- 1) Current cutting areas being operated by sawmilling licensees;
- 2) Unlogged forests containing trees unsuitable for sawmilling and requiring regeneration;
- 3) Areas previously logged for sawmilling timber;

- 4) Thinnings from regrowth forests; and
- 5) Mill waste offcuts from sawmill logs.

In 1961, the Agreement was amended, enlarging the area to approximately 2,350,000 acres or over 950,000 hectares (Thompson, 1961). This was on the grounds that the original Mill and Forest areas were insufficient to guarantee the required supply, because they supplied only 16 per cent of the total quantity. Under this new agreement, the then Minister for Forests, L.H.S Thompson, stated:

*A larger supply of pulpwood is to be guaranteed. The new agreement provides for the supply of 75,000 cunits [212,376 m<sup>3</sup>] per annum for nine years, to be raised to 110,000 cunits [311,485 m<sup>3</sup>] per annum thereafter. The company will take not less than 50 per cent of the minimum supply of pulpwood. Originally this was 90 per cent of the annual quantity of 40,000 cunits [113,267 m<sup>3</sup>], but that was found too harsh a total provision (Thompson, 1961, p. 1120).*

The Wood Pulp Agreement was further amended in 1966, 1974 and 1984. It also included access to pulp logs sourced from state-owned softwood plantations. The amended Wood Pulp Agreement Bill was scheduled to expire in 2004, 68 years after its original introduction (Land Conservation Council, 1994). However, a new agreement was reached between the State of Victoria and the successor of Australian Paper Manufacturers Ltd, AMCOR Ltd, who, at the time, announced the construction of its M5 Paper Machine (AMCOR Ltd, 2000). The Victorian Government provided resource security for this investment in passing the current *Forests (Wood Pulp Agreement) Act 1996*:

*The agreement before the house is part of the larger package of measures agreed between Amcor and the government. The agreement provides resource security for Amcor to support its major capital investment. The agreement therefore extends the term of the existing agreement from 2004 to 2030 (Birrell, 1996, pp. 537-538).*

#### **4.2 Forests (Wood Pulp Agreement) Act 1996**

This current LSA replaced and consolidated the 1961 agreement. It bound the state to provide fixed volumes of pulp logs to AMCOR Ltd over specified time periods, as outlined in Clause 14(2):

*The Secretary shall be bound in each year to make available to the Company or to have the Department deliver to the Company as the Plan of Utilization may require from areas of forest as provided in this clause and in accordance with a Plan of Utilization a minimum annual supply of pulpwood which shall be -*

- (a) *in each of the years 1996 - 1997 to 2003 – 2004 inclusive - 500,000 cubic metres;*



(b) *in each of the years 2004 - 2005 to 2006 – 2007 inclusive - 450,000 cubic metres;*

(c) *in each of the years 2007 - 2008 to 2009 – 2010 inclusive - 400,000 cubic metres;*

(d) *in each of the years 2010 - 2011 to 2029 – 2030 inclusive - 350,000 cubic metres,*

*of which at least 300,000 cubic metres shall be made available to the Company or delivered by the Department to the Company as the Plan of Utilization may require from mountain forests inside the Forest Area (State of Victoria, 1996, pp. 12-13).*

This agreement allocated to AMCOR Ltd the rights to pulp logs sourced from over 300,000 hectares of state forest (Figure 3) (Table 2). The area covered a total of 558,654 hectares of public land, with around 309,000 hectares available for logging. Inversely, Clause 16(1) bound the company each year to accept delivery of not less than 85% of the quantity of pulp logs specified under Clause 14(2). If the company did procure less than this percentage, it would be required to pay the equivalent royalty to the Victorian government at the average royalty rate that the company would otherwise pay for pulp logs in that year.

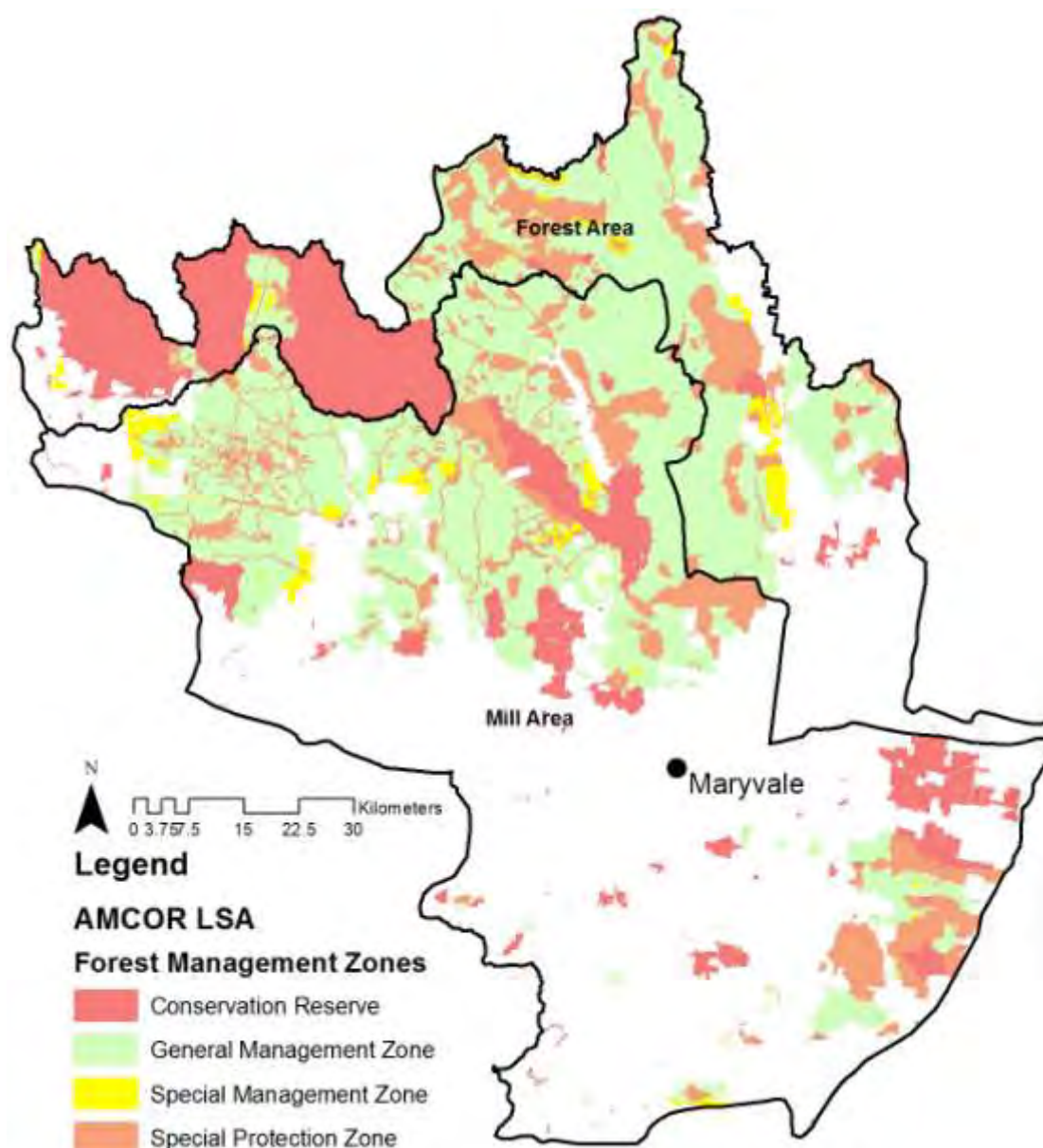
**Table 2.** Land tenure allocation of forest on public land in the Legislated Supply Agreement (LSA) Area

Land Tenure	Area (ha)	% of Total
Conservation Reserves	132,245	24%
Special Protection Zones	117,286	21%
Special Management Zones	16,361	3%
General Management Zones	292,762	52%
<b>Total</b>	<b>558,654</b>	<b>100%</b>

Clause 5(1) of the LSA provided liberty to AMCOR Ltd, with written consent of the relevant minister, to transfer the rights of the LSA to a subsidiary company or any other company of its choosing. The LSA gave AMCOR Ltd the right to:

- a) procure the incorporation of a subsidiary company to exercise as the nominee of the Company all or any of its rights under this Agreement and the Act; and
- b) assign all or any of its rights under this Agreement and the Act to such subsidiary company or to any other company.

In 1998, the LSA was re-assigned to AMCOR Ltd's subsidiary, Paper Australia Pty Ltd (AMCOR Ltd, 2000). Subsequently, when ownership of Paper Australia Pty Ltd was transferred from AMCOR Ltd to PaperlinX Ltd, then to Nippon Paper Industries Co. Ltd, the LSA remained between the Victorian Government and Paper Australia Pty Ltd.



**Figure 3.** Legislated Supply Agreement Area under the Forests (Wood Pulp Agreement) Act 1996 and forest management zones

### 4.3 An Exclusive Agreement

The exclusive context of the Wood Pulp Agreements did raise concern in parliament at the time that they were initiated. The original 1936 Wood Pulp Agreement drew the concern of former Premier John Cain Snr, where he argued that exclusive concession awarded to Australian Paper Manufacturers Ltd would give the company a complete monopoly in the logging industry (Sinclair 1990). Later, former Minister for Forests, L.H.S Thompson, stated in his second reading of the Wood Pulp Agreement 1961 Bill that:

*It may seem strange that an agreement should be made with a particular branch of private enterprise for exclusive rights over Victorian grown pulpwood, but in 1937 there was no company in the world manufacturing paper from hardwood and there was no company in*

*Australia manufacturing paper at all. Certain concessions were granted to Australian Paper Manufacturers Limited, mainly that exclusive rights would be granted in an area of 650,000 acres in central Gippsland for the supply of quantities of pulp (Thompson, 1961, p. 1120).*

In the 1990s, the Victorian Government prioritised the LSA over the Regional Forest Agreements (RFA), which were then being negotiated between the Victorian and Federal Governments. In a letter addressed to the General Manager of AMCOR Ltd, the then Premier of Victoria, Jeff Kennett, stated:

*In relation to the proposals of the Commonwealth for the Victorian Government to sign the Deferred Forest Agreement, the Scoping agreement for a Regional Forest Agreement (and the subsequent Regional Forest Agreements), let me also assure you that the State of Victoria does not intend to enter into any of these agreements if they are inconsistent with or in any way affect the rights of the Amcor group of companies or any other companies under legislated wood supply agreements enacted under Victorian Law. As I have already assured you, the Victorian Government has no intention of signing any Agreement with the Commonwealth which I consider disadvantages the industry or compromises new developments (Kennett, 1995).*

At the time of writing (2018), the exclusive concession regime afforded to Paper Australia Pty Ltd, under the LSA, has been in place for 82 years. The first Wood Pulp Agreement was viewed as a means of initiating a new industry. However, whilst the first wood pulp agreement was to expire after 50 years (1986), renewals of the agreement have made legislative supply agreements the norm for the mills at Maryvale. This exclusive concession regime has not been adaptive to changing conditions and lacks flexibility:

*The longest timber contract is the government's 34-year legislated agreement with Australian Paper. This agreement was established as the Forests (Wood Pulp Agreement) Act 1996. Since then there have been significant changes to timber resource availability—more conservation reserves, several fires—and to the industry—changes in plantation pulpwood predictions, forest certification issues. As these have resulted in additional costs to government, DEPI will need to consider costs against the socio-economic benefits that Australian Paper brings to Gippsland communities (VAGO, 2013).*

*These commitments, especially the Australian Paper commitment, are very long term and reduce VicForests flexibility with regard to the allocation of low grade logs to potential new markets, and in addition locking VicForests into particular contract terms and conditions (URS, 2010, p. 36).*

If the LSA were to last until 2030, the successive owners of the Maryvale Mills will have enjoyed 94 years of guaranteed wood supply from Victoria's public native forests. The legislative allocation of a public asset to a private enterprise has had serious consequences for the forest ecosystems

concerned (see section 5) and continues to block opportunities for new regional jobs and businesses that depend on forests, as opposed to pulp logs.

## 5 The *Mountain Forests*

### 5.1 *Why the Preference?*

Clause 14(2) of the *Forests (Wood Pulp Agreement) Act 1996* obligates the Victorian Government to provide at least 300,000 m<sup>3</sup> per annum of pulp logs sourced from 'Mountain Forests' within the LSA area or 'Forest Area'. 'Mountain forest' is defined as:

*.....any eucalypt forest in which the predominating species is Eucalyptus regnans or Eucalyptus delegatensis or both of them (State of Victoria, 1996, p. 7).*

The 'Mountain Forests' are referred to in scientific literature as 'montane ash' forests (Lindenmayer, et al., 2015). These cover only 92,551 hectares or 22% of the state forest allocated to Paper Australia Pty Ltd (Figure 4) (Table 3). Yet this small area provides over 70% of Paper Australia Pty Ltd's pulp log intake from state forests (Poyry, 2011). Pulp logs sourced from 'Mountain Forests' are preferred because Mountain Ash and Alpine Ash trees exhibit qualities of formation, brightness, strength, opacity and resilience for paper manufacture. Furthermore, Mountain Ash and Alpine Ash pulp logs require less bleaching to remove lignin and colour (Land Conservation Council, 1994).

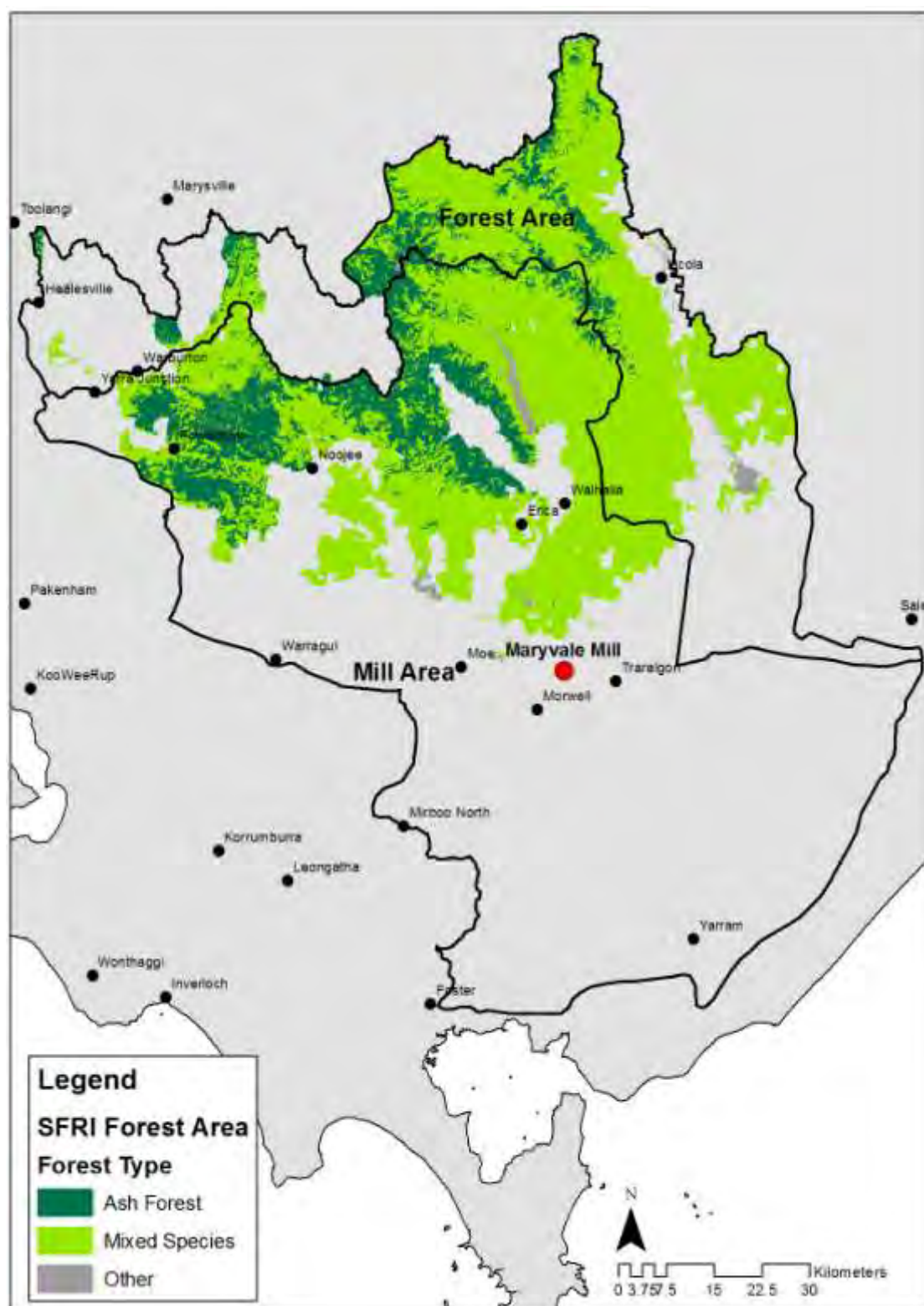
**Table 3.** Forest type within state forest across the Legislative Supply Agreement area

Forest Type	Forest allocated to logging (ha)	Total State Forest Area (ha)
Mountain Forest	69,217	92,551
Mixed Species Forest	219,722	325,730
<b>Total</b>	<b>288,939</b>	<b>418,281</b>

The preference for 'Mountain Forests' dates from the first Wood Pulp Agreement in 1936, where the state was bound to provide:

*(i) not less than three-fourths shall be from Eucalyptus regnans or (where economically necessary) from Eucalyptus gigantea; and (ii) pulpwood equal in quantity to one-third (or such other proportion as the Commission and the Company agree upon) of the pulpwood from those species shall be from timber of Eucalyptus regnans obtained under paragraph (d) of this clause from mountain forest of regrowth (Victorian Parliament, 1936, p. 435).*





**Figure 4.** Ash Forest and Mixed Species Forest across the LSA area providing the majority of pulp logs (Source: State Forest Resource Inventory (SFRI), DSE 2003)

## 5.2 Mountain Forests

The 'Mountain Forests' are defined by their iconic and visually spectacular stands of tall trees, particularly Mountain Ash (*E.regnans*) (Figure 5) and Alpine Ash (*E.delegatensis*) (Figure 6). These forests are restricted to the mountainous and highest rainfall areas of the state, occupying only 547,000 hectares or less than 7% of Victoria's total forest cover of 8.2 million hectares (DEPI, 2013). Mountain Ash forests are located only in Victoria and Tasmania. They are the tallest of the Mountain Forests, exceeding more than 100 metres in height (Ashton, 1976). The structure of Mountain Ash forests can be either even-aged or multi-aged, depending on the disturbance history (Mackey, et al., 2002). Previous fires of extreme severity can result in even-aged stands. However, fires can be highly variable in their severity and fires of lower severity result in Mountain Ash forests consisting of multiple age cohorts (Lindenmayer & McCarthy, 1998). These forests contain old growth trees interspersed with younger trees (Figure 5). Mountain Ash forests are typically monotypic (Lindenmayer, et al., 2015) but feature a diverse understorey (Mueck, 1990).

Alpine Ash forests are also monotypic, but occur at higher elevations than Mountain Ash forests (Figure 6). They are also more geographically widespread, dominating the slopes of the Australian Alps throughout Victoria, New South Wales and the Australian Capital Territory, along with higher elevations in East Gippsland and Tasmania. Alpine Ash trees often form pure stands under optimum conditions, but can be mixed with other species at sub-optimal sites (Turnbull & Pryor, 1984).

The Mountain and Alpine Ash forests provide habitat for numerous rare and threatened fauna, including the endemic and critically endangered Leadbeater's Possum (*Gymnobelideus leadbeateri* McCoy) (Lindenmayer, et al., 2013) and the Baw Baw Frog (*Philoria frosti* Spencer) (Hollis, 2004), as well as the vulnerable Greater Glider (*Petauroides volans*) (Lindenmayer, et al., 2015). The Mountain Forests across the LSA area contain nationally significant landscapes, including a site of global zoological significance located around Mount Baw Baw (Mansergh & Norris, 1982). These forests include water catchments critical for supplying water to the city of Melbourne and surrounding rural communities (Viggers, et al., 2013). They also support the largest known stores of terrestrial ecosystem carbon, with some sites containing over 1,800 t/C/ha (Keith, et al., 2009).





**Figure 5.** Mountain Ash forest on the south face of the Baw Baw Plateau (Photo: Chris Taylor)





**Figure 6.** *Alpine Ash forests along the northern escarpment of the Baw Baw Plateau (Photo: Chris Taylor)*

The Mountain Ash forest ecosystem itself has been red listed as ‘critically endangered’ by the International Union for the Conservation of Nature (IUCN) (IUCN, 2015). The primary driver behind this threat listing is extensive clearfell logging, compounded by the effects of bushfire (Burns, et al., 2014). The Alpine Ash forests are closely associated with the Mountain Ash forest ecosystem and they have also experienced similar and rapid decline (Lindenmayer, et al., 2015).

The Mountain and Alpine Ash forests are some of the least protected forest types in Victoria. Around 286,000 hectares or 52% are located within state forest. Of this, 241,000 hectares have been allocated to VicForests for the purposes of logging and other activities (DEDJTR, 2014). Mountain Forests cover 92,551 hectares in state forests in the LSA Area. This is approximately 32% of the 286,000 hectares of Mountain Forests (otherwise called ‘Ash’ Forests) in all Victorian state forests.

### **5.3 Clearfell Logging**

Clearfell logging is the main form of logging in the Mountain Forests (Lutze, et al., 1999) and remains one of the country’s most contentious and long-standing environmental issues (Lindenmayer & Franklin, 2003). It is the most intensive of all silvicultural practices, where all the merchantable logs are removed from a defined area of forest or coupe and the remaining debris or slash is consumed in an applied high intensity fire (Flint & Fagg, 2007). This creates an ash bed, upon which the commercially valued eucalyptus species are replanted. Replanting is either through direct reseeding or through a



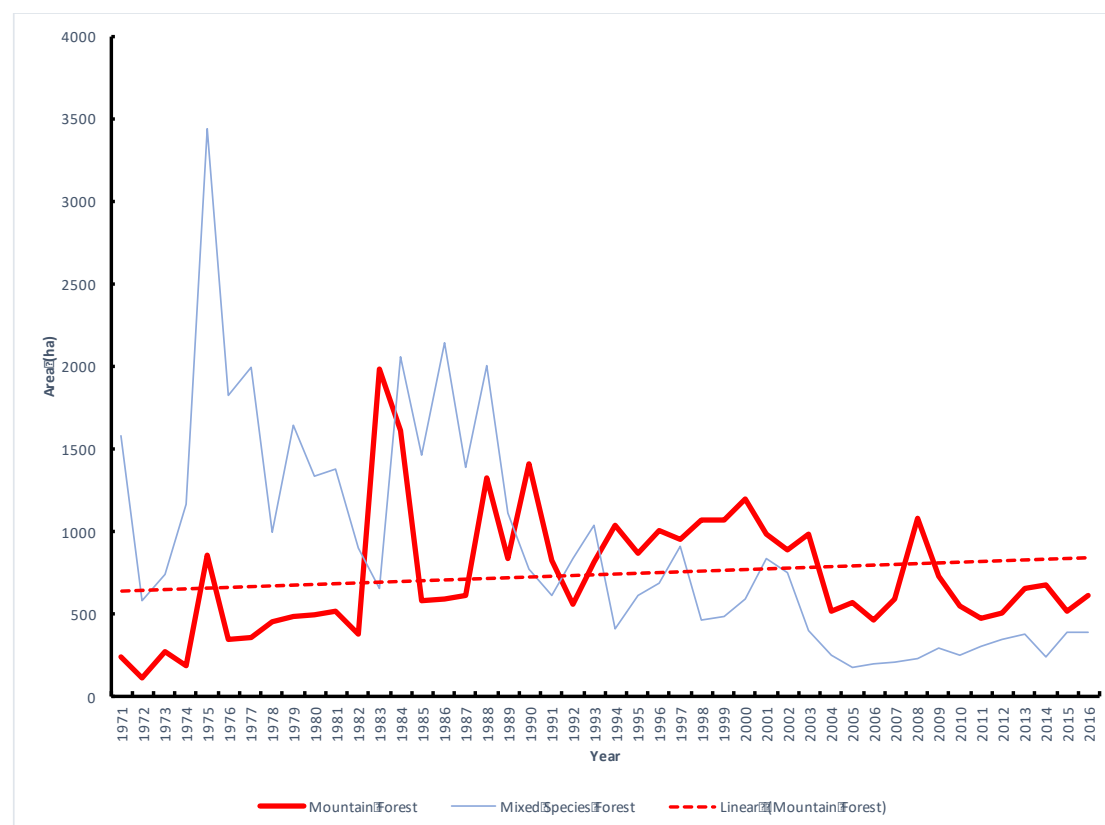
'seed tree' method, which involves scorching the crowns of remaining seed trees dispersed throughout the coupe (Figure 7) (Florence, 1996).



**Figure 7.** Clearfell logging in Ash forest near Mt Matlock (Photo: Chris Taylor)

A strong scientific criticism of clearfell logging is that it ignores the natural disturbance history of a specific forest and type (Mackey et al. 2002). Clearfell logging removes biological legacies, such as hollow bearing old trees (Lindenmayer & Franklin, 2002) and long-lived understorey species (Mueck, et al., 1996). The stand of trees replacing the previously unlogged forest is often even aged and homogenous. Previous biological legacies are lost and may take up to 2,000 years to recover following logging (Norton, 1996).

Clearfell logging was first implemented because of the need to develop 'regeneration' techniques in Mountain Forests. During the late 1950s, research work into the 'seed tree' system saw the development of clearfelling in Mountain Ash forests and clearfell, burn and sow in Alpine Ash forests around Mt Stirling (Grose, 1960). This led to the widespread implementation of the clearfelling system involving intensive slash fires across all wet forest types (Squire, et al., 1991) (Figure 8).

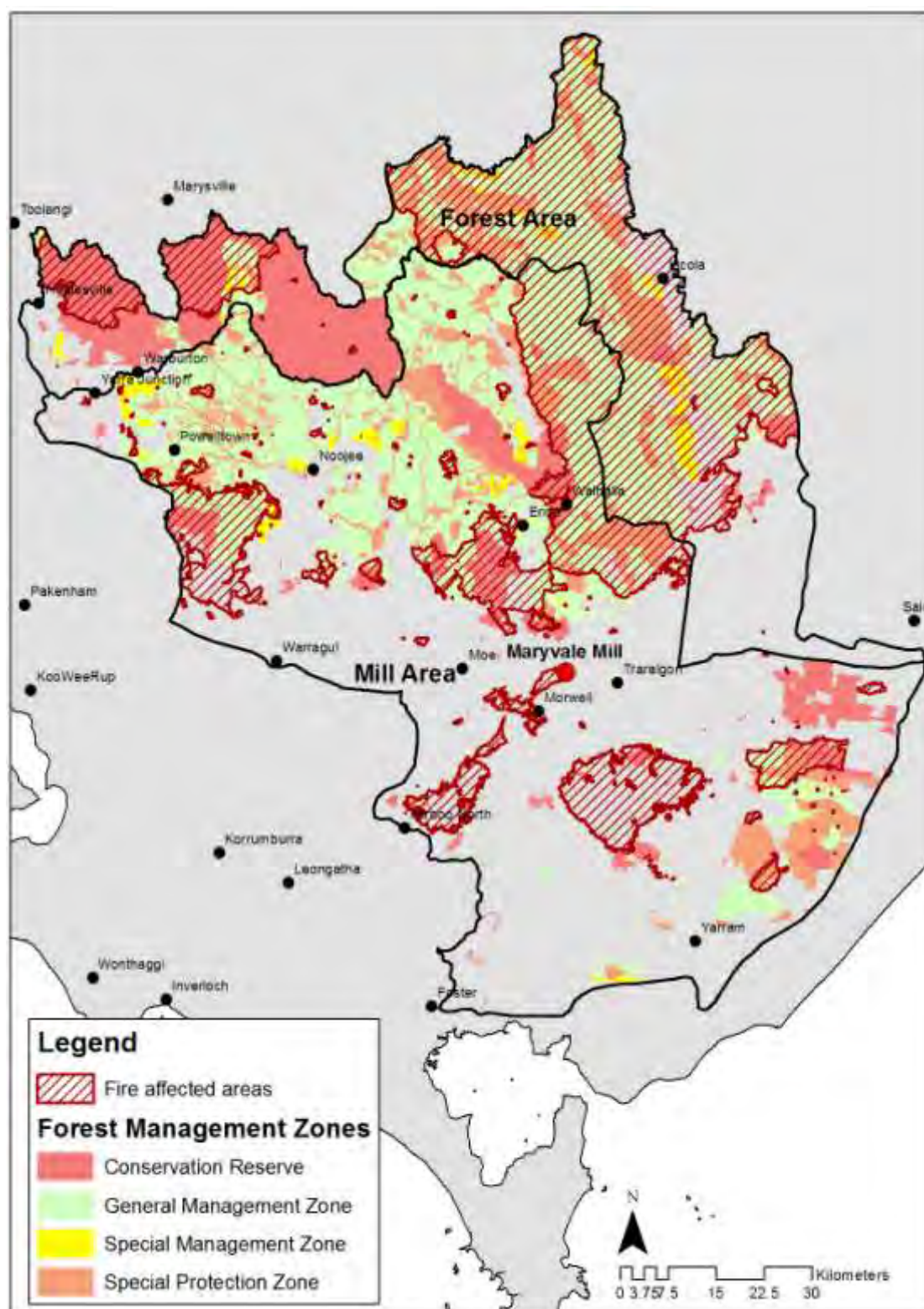


**Figure 8.** Trends in the logging of forest types in the Legislative Supply Agreement area, showing the long-term trend (dashed line) (Derived from DELWP 2017).

Across the LSA area, most logging takes place in Mountain Forests. On average, the Mountain Forests account for 66% of the total area logged annually in the LSA area since the passing of the *Forests (Wood Pulp Agreement) Act* in 1996. Since 1970, approximately 93% of logging in Mountain forests across the LSA area has been clearfelling (DELWP, 2017). The largest area of Mountain Forest logged in a single year was 1,983 hectares in 1983. The next highest peak was in 1990, with around 1,400 hectares of Mountain Forest logged. The highest average area logged occurred between the years 1994 to 2003, with an average of around 1,000 hectares logged per annum. While there has been a decrease in the area of mixed species being logged, the area of Ash forest logged has increased over the long term.

#### **5.4 Spatial Analysis of Disturbance Across Mountain Forests**

Major fires have impacted the LSA area since the passing of the *Forests (Wood Pulp Agreement) Act* 1996 (Figure 9). More than half of the forest area allocated for logging in the General Management Zone (GMZ) has been impacted by fire since 1996; similarly nearly half of the smaller Special Management Zone category has burnt (Table 4). The largest fires burnt through Victoria's Alpine Bioregion in 2007, followed by the February 2009 fires.



**Figure 9.** Extent of fires across the LSA since the passing of the Forests (Wood Pulp Agreement) Act 1996 (Derived from DELWP 2017).

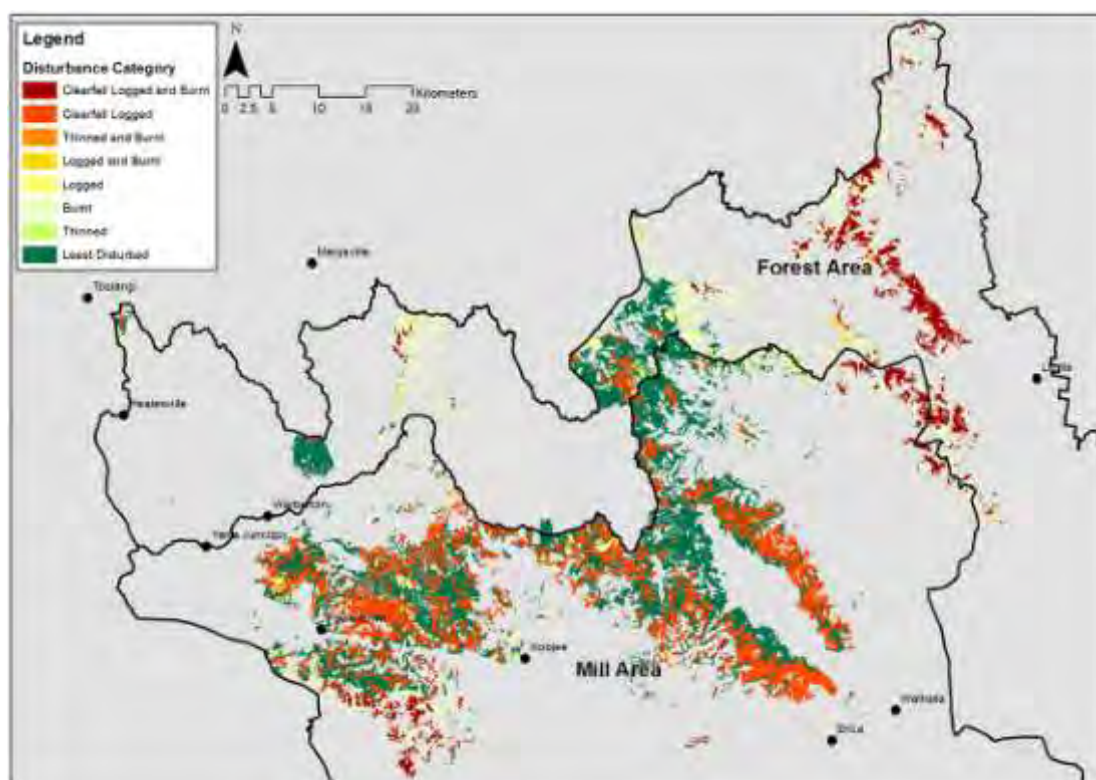


**Table 4.** Forest type within state forest across the Legislative Supply Agreement area

Forest Management Zone	Burnt	Unburnt	Total	% Burnt of Total
General Management Zone	150,551	142,210	292,762	51%
Special Management Zone	7,200	9,161	16,361	44%
Special Protection Zone	59,702	57,584	117,286	51%
Conservation Reserve	50,446	81,799	132,245	38%
<b>Total Public Forests</b>	<b>267,899</b>	<b>290,755</b>	<b>558,654</b>	<b>48%</b>

These fires impacted the Mountain Forests throughout the LSA area (Figure 10). An analysis was conducted for this review, calculating the areas that were disturbed by these fires in conjunction with clearfell logging. This analysis was based on the State Forest Resource Inventory (SFRI) (DNRE, 1997), which only covers state forests, along with fire severity data (DELWP, 2018) and logging history (DELWP, 2017).

Mountain Forests in state forest across the LSA area have suffered widespread disturbance: inclusive of recent wildfires, 54,170 hectares or 59% has been disturbed. Around 36,737 hectares (40%) of Mountain Forest has been clearfell logged. Of this area, 9,304 hectares have been burnt in the 2007 and 2009 fires (Table 5). The remaining least disturbed forests cover 38,381 hectares, with only two core areas remaining.

**Figure 10.** Degree of disturbance across Mountain Forests in state forests



**Table 5.** Disturbance in Ash forests in State Forests across the LSA area

<b>Disturbance</b>	<b>Area (ha)</b>	<b>% of Total</b>
Clearfell Logged and Burnt	9,304	10%
Clearfell Logged	27,433	30%
Thinned and Burnt	0	0%
Logged and Burnt	700	1%
Logged	3,030	3%
Burnt	13,352	14%
Thinned	351	0%
Least Disturbed	38,381	41%
<b>Total</b>	<b>92,551</b>	<b>100%</b>

The spatial analysis for this report updated the age classes in the SFRI dataset (DNRE, 1997) to reflect the current conditions of the Mountain Forest following the February 2009 and 2007 bushfires and more recent logging. Age classes were defined using those presented in Ashton (1975), describing growth stage in Mountain Ash forest from seedling to over-mature (Table 6). These stages are also applied to Alpine Ash and Shining Gum forests.

**Table 6.** Growth stages of Ash forest (based on Ashton 1975)

<b>Growth Stage</b>	<b>Age (years)</b>
Seedling	0-4
Sapling	5-6
Thicket	7-10
Pole	13-34
Spar	35-89
Mature	90-300
Over-mature	300-400

The spatial analysis shows that Mountain Forest in its seedling stage (0-4 years) is predominantly surrounded by forest in its late spar growth stage (79-89 years old), much of which emanated from the 1939 wildfires and is now 79 years old (Figure 11). This indicates that recent clearfell logging is specifically targeting the remaining intact areas of least disturbed Ash forest. The areas disturbed by the February 2009 and the 2007 fires are now in their sapling growth stages aged 9 years and 11 years, respectively. Over 43,000 hectares or 47% of state Mountain Forest consists of young stands less than 75 years old (Table 7).

Mountain Forest under General Management (GMZ) and Special Management Zones (SMZ), where logging is permitted, covers 69,219 hectares or 77% of the Mountain Forest area in state forest. The majority of this area has sustained a severe disturbance (Figure 11), with 45,104 hectares or 65% of total Mountain Forest allocated to logging being clearfell logged and/or sustaining recent fires (Table 8). The least disturbed Mountain Forests cover only 24,114 hectares or 35% of the area.

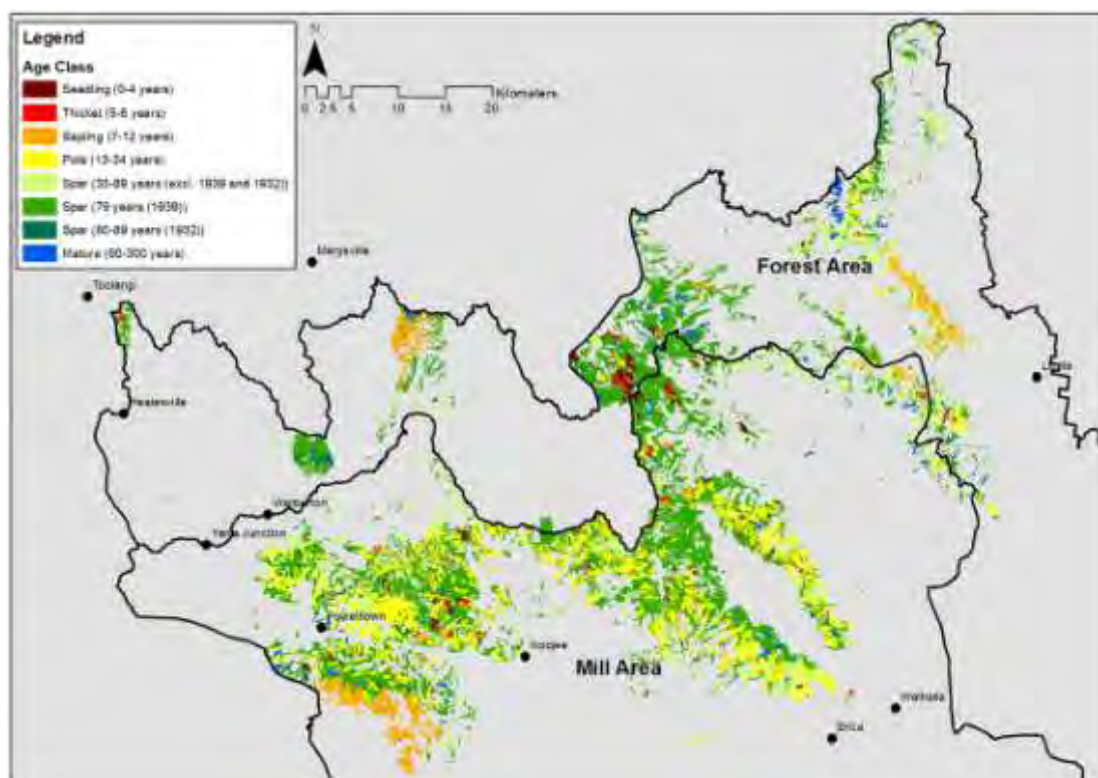
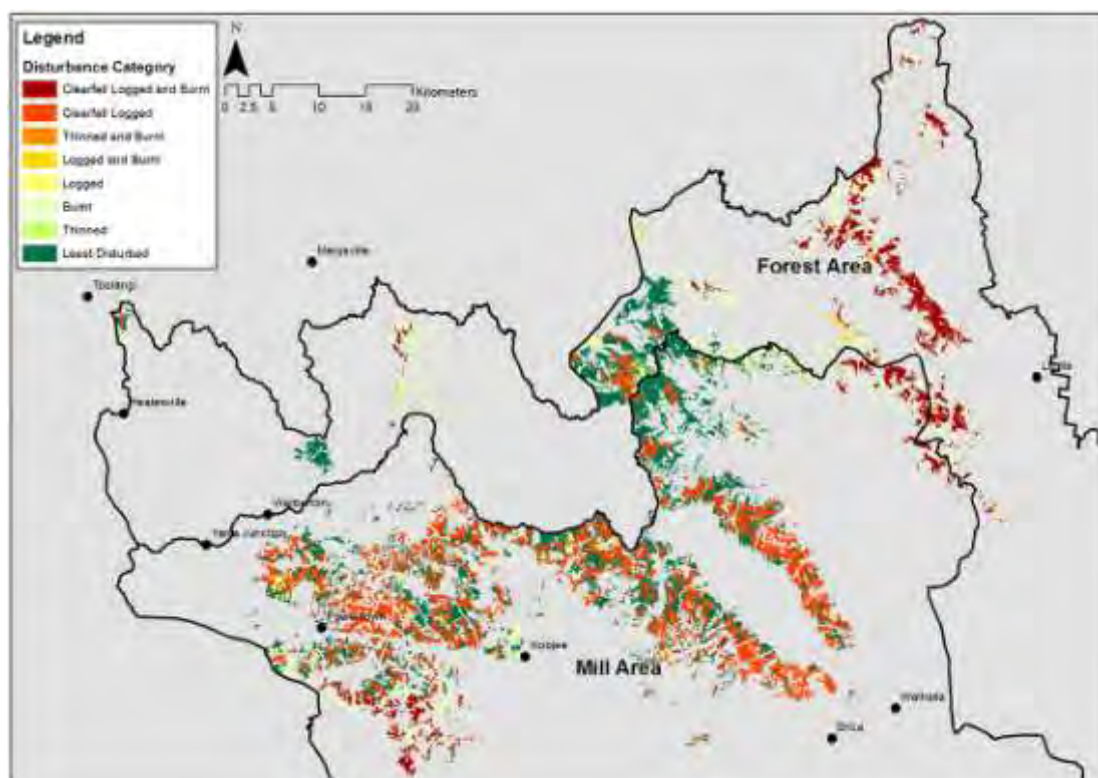


Figure 11. Age class distribution of Ash forests across state forests (age classes based on Ashton 1975)

Table 7. Areas of age classes in Ash forests across state forests

Age class	Area (ha)	% of Total
Seedling (0-4 years)	1,616	2%
Thicket (5-6 years)	1,047	1%
Sapling (7-12 years)	7,585	8%
Pole (13-24 years)	18,631	20%
Spar (35-89 years (excl. 1939 and 1932))	14,539	16%
Spar (1939) (79 years)	45,215	49%
Spar (1932) (86 years)	1,155	1%
Mature (90-300 years)	2,763	3%
<b>Total</b>	<b>92,551</b>	<b>100%</b>

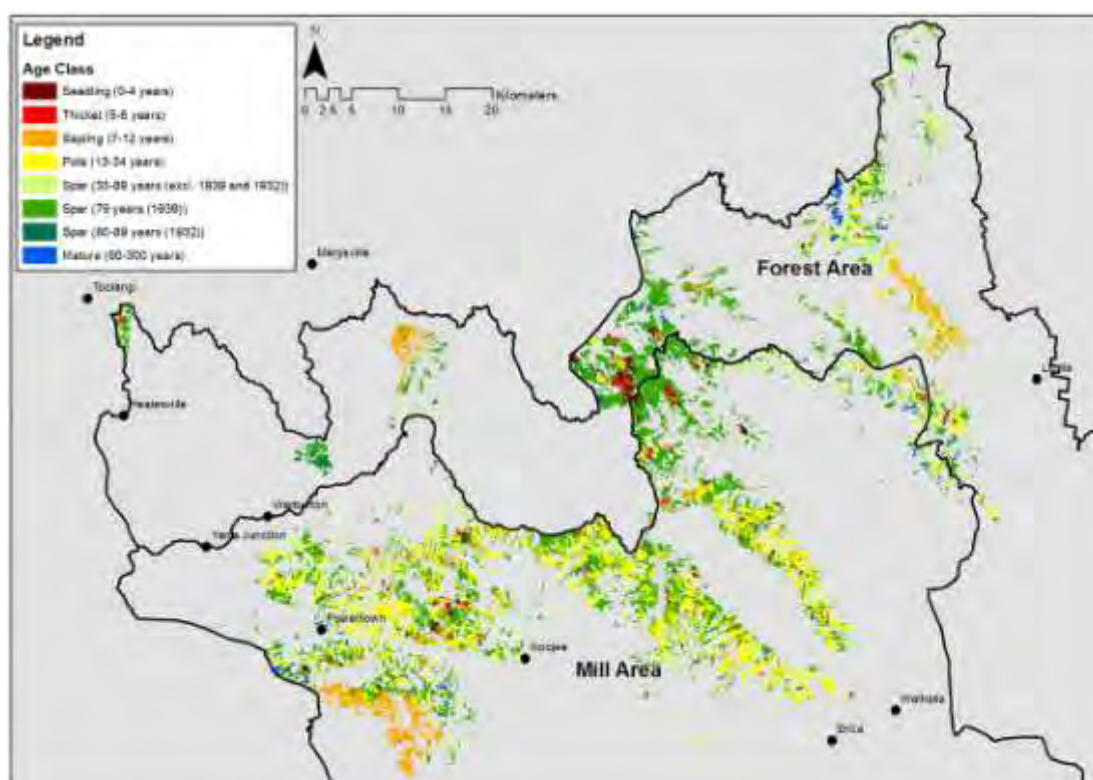


**Figure 12.** Degree of disturbance across the Ash forests in General Management Zones and Special Management Zones (where logging is permitted)

**Table 8.** Disturbance areas across the Ash forests in General Management Zones and Special Management Zones (where logging is permitted)

Disturbance	Area (ha)	% of Total
Clearfell Logged and Burnt	8,987	13%
Clearfell Logged	23,031	33%
Logged and Burnt	601	1%
Logged	2,349	3%
Burnt	9,794	14%
Thinned	342	0%
Least Disturbed	24,114	35%
<b>Total</b>	<b>69,218</b>	<b>100%</b>

Mountain Forest in the younger age classes between pole and seedling (less than 35 years old) cover 37,455 hectares or 54% of Mountain Forests allocated to logging (Table 9) (Figure 13). Remaining stands of late spar growth stages originating from the 1939 wildfires have suffered extensive recent clearfell logging, as indicated by forest in the seedling growth stage. Only 31,762 hectares or 46% of the 1939 regrowth forest area remains unlogged. However, much of this resides in fragments in between previous clearfell logging coupes and previous fires.



**Figure 13.** Age class distribution of Mountain Forests in General Management Zones and Special Management Zones (where logging is permitted) (age classes based on Ashton 1976)

**Table 9.** Areas of age classes in Mountain Forests in General Management Zones and Special Management Zones (where logging is permitted) (age classes based on Ashton 1976)

Age Class	Area (ha)	% of Total
Seedling (0-4 years)	1,539	2%
Thicket (5-6 years)	957	1%
Sapling (7-12 years)	6,759	10%
Pole (13-24 years)	14,665	21%
Spar (35-89 years (excl. 1939 and 1932))	11,742	17%
Spar (1939) (79 years)	30,457	44%
Spar (1932) (86 years)	763	1%
Mature (90-300 years)	2,335	3%
<b>Total</b>	<b>69,218</b>	<b>100%</b>

The compounded impacts of clearfell logging and fire are pushing the Mountain Forests into an altered compromised state. The close succession of recent fires and widespread clearfell logging present a serious problem, because large areas of Mountain Ash and Alpine Ash trees in juvenile stages of growth are not yet producing seed. Mountain Ash trees begin producing seed at around 20-25 years of age (Florence, 1996). If a high severity fire burns through a young stand of Ash trees previously clearfell logged or burnt, the capacity of the ecosystem to recover following the disturbance is compromised. This has been documented on the Toorongo Plateau, where fires in close succession have eliminated the Ash forest over large areas and required artificial replanting (McKimm & Flinn, 1979). The process by which



the Ash forest moves into this compromised state has been described as a 'Landscape Trap', where

*.....the entire landscape is shifted into, and then maintained (trapped) in, a highly compromised structural and functional state as the result of multiple temporal and spatial feedbacks between human and natural disturbance regimes (Lindenmayer, et al., 2011, p. 15887).*

This process creates an irreversible change in disturbance dynamics, forest cover, landscape patterns and vegetation structure. It leads to collapse or a major regime shift to an alternative state (Burns, et al., 2014). This process has resulted in the Mountain Ash forest ecosystem being formally listed as 'critically endangered' under the International Union for the Conservation of Nature (IUCN) (IUCN, 2015). According the IUCN (2016), an ecosystem is threatened when the best available evidence indicates that it meets any of the following criteria for Critically Endangered:

- a) Reduction in distribution;
- b) Restricted distribution;
- c) Environmental degradation;
- d) Disruption of biotic processes; and/or
- e) Quantitative analysis.

If a threatened category is triggered for one of more of the criteria, the ecosystem will qualify to be listed as threatened in one of three categories: 'vulnerable', 'endangered' or 'critically endangered'. In their study, Burns *et al.* (2014) assessed the Ash forest ecosystem against these criteria and quantified key aspects of the forest's historical, current and future decline in spatial distribution, extent of occurrence, area of occupancy for the ash forest ecosystem and the decline in key abiotic and biotic processes, along with features for historical, current and future time periods. Declines in biotic and abiotic processes were noted, along with the quantitative assessment of the probability of ecosystem collapsing, therefore triggering the critically endangered status of the ecosystem (Table 10). The IUCN defines a 'critically endangered' ecosystem to be at an extremely high risk of collapse (IUCN, 2016).

There has been a significant reduction in the amount of old-growth. Burns *et al.* (2014) estimated that the area of Mountain Ash forest unlogged and unburnt by wildfire in 1964 was 6,300 hectares (4% of the estate). By 2011, this area was reduced to 1,700 ha or only 1% of the total Mountain Ash area). Accordingly, modelling has shown that there will be a severe decline in the average number of large old hollow-bearing trees across the Mountain Ash forest from approximately 3.77 per hectare in 2011 to approximately 0.29–0.82 per hectare by 2067. Burns *et al.* (2014) defined ecosystem collapse as occurring when the average abundance of hollow-bearing trees declined to <1 hollow-bearing tree per hectare. The quantitative assessment modelling by Burns *et al.* (2014) indicates a ≥92% chance of the Mountain Ash ecosystem reaching a collapsed state by 2067; hence its critically endangered listing.

**Table 10.** Criteria for the critically endangered listing of Ash forest (derived from Burns et al. 2014)

Category	Sub-category	Classification
A. Decline in Distribution	A1. Current Decline	Least Concern
	A2. Future Decline	Least Concern
	A3. Historical Decline	Least Concern
B. Distribution Size	B1. Extent of Occurrence	Endangered
	B2. Area of Occupancy	Least Concern
	B3. Number of Locations	<b>Critically Endangered</b>
C. Decline in abiotic processes	C1. Current decline	Data Deficient
	C2. Future decline	Least Concern - <b>Critically Endangered</b>
	C3. Historical decline	Data Deficient
D. Decline in biotic processes and interactions	D1. Current decline	<b>Critically Endangered</b>
	D2. Future decline	<b>Critically Endangered</b>
	D3. Historical decline	<b>Critically Endangered</b>
E. Quantitative assessment of the probability of ecosystem collapse		<b>Critically Endangered</b>

## 6. Wood Supply

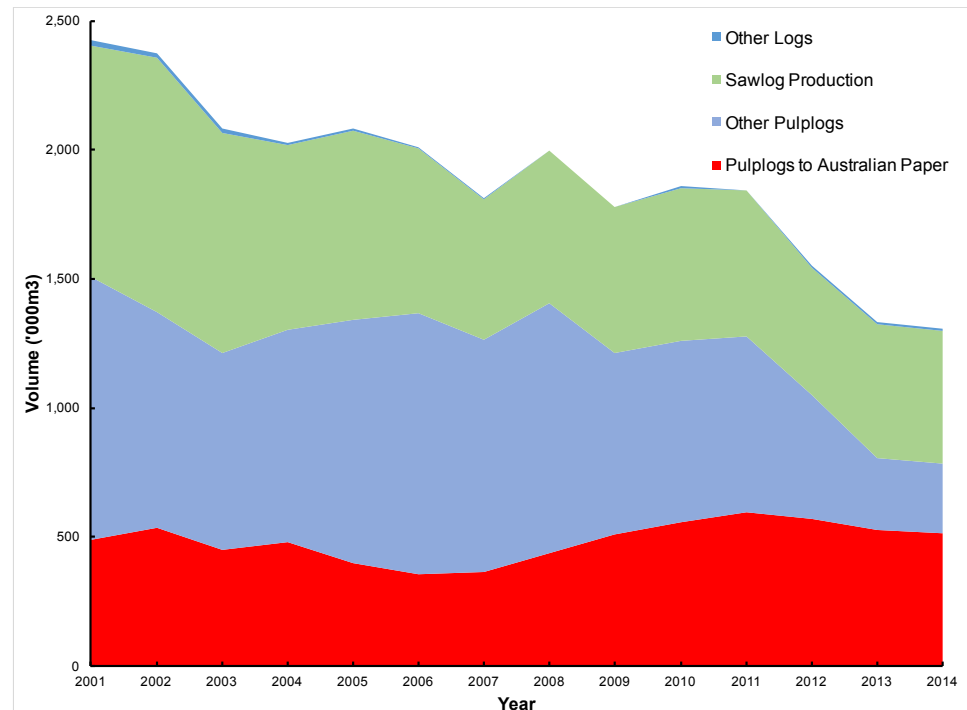
### 6.1 State Forests

The original intent of the *Forests (Wood Supply Agreement) Act 1996* was to commence the transition of the Maryvale Mills from native forests to plantations. Introducing the *Forests (Wood Pulp Agreement) Bill*, the then Minister for Conservation and Land Management Marie Tehan, announced that the new LSA would begin the transition towards the Maryvale Mills sourcing the majority of pulp logs from plantations over time:

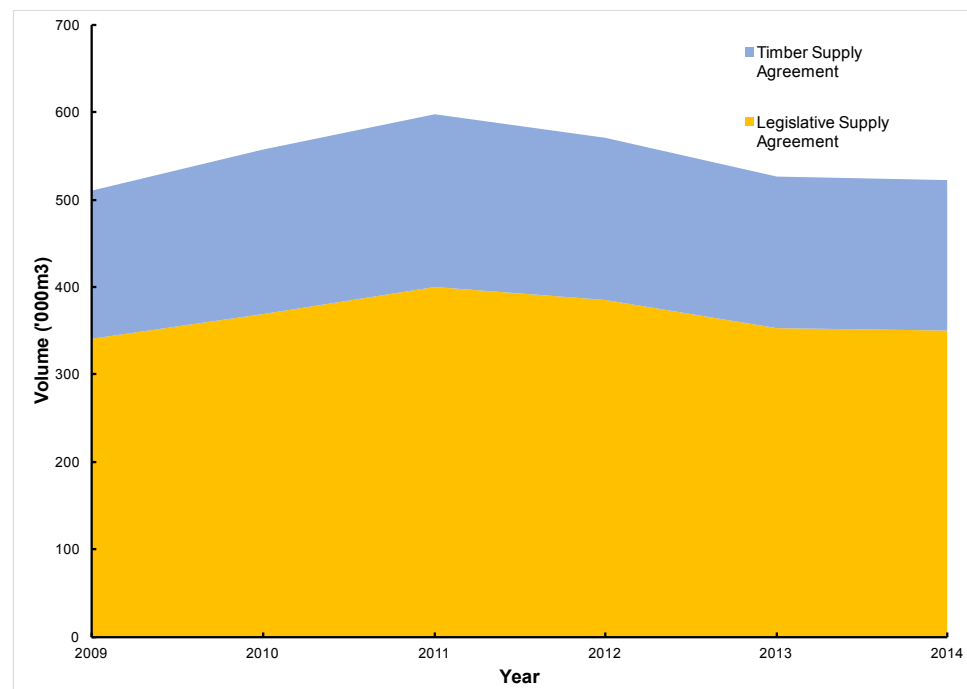
*While the government is mindful of the economic benefits of the agreement, it is firmly committed to the principle that sustainable economic growth must go hand in hand with sound environmental practices. The expanded mill will increasingly rely on plantation wood rather than native forest and by 2010 Amcor plans to reduce its reliance on native forest from 90 per cent of its intake to 35 per cent. It will also make increased use of recycled paper* (Tehan, 1996, p. 450).

When the Agreement was legislated in 1996, the Maryvale Mills were sourcing around 500,000m<sup>3</sup> per annum of pulp logs from native forests (Brumby, 1996). By 2010, this was to be reduced to 350,000m<sup>3</sup> per annum. However, the opposite happened (Figure 14). Pulp log intake from native forests did decline

from 533,528 m<sup>3</sup> in 2002 to 353,806 m<sup>3</sup> in 2006, but increased to 597,463 m<sup>3</sup> in 2011 (Williams & Green, 2014). The pulp logs are coming not only from the LSA area, but from other state forests as well. Around one-third of the supply is obtained through a separate Timber Supply Agreement with VicForests made in 2008 (VicForests, 2008) (Figure 15).



**Figure 14.** Victorian pulp log deliveries to Maryvale in context with other markets (Sources: Williams and Green 2014, VicForests 2015)



**Figure 15.** Breakdown of the Legislative Supply Agreement and Timber Sales Agreement (VicForests, 2014)

The overall supply of native forest hardwood logs in Victoria has been in decline since the creation of VicForests as a State-Owned Enterprise in 2004. From a peak of nearly 2 million m<sup>3</sup> in 2007-08, log production declined to around 1.3 million m<sup>3</sup> in 2015-16 (Figure 14). Much of this decline has been a result of past overcutting (Vanclay & Turner, 2001), shifts away from traditional hardwood timber products in the market (BIS Shrapnel, 2015) and the impacts of the 2003, 2007 and 2009 bushfires. The 2009 bushfires alone burnt around 10 million m<sup>3</sup> of standing Mountain Forest logs, with a mill door value of approximately \$600 million (VAFI, 2009). This has had a profound impact on the availability of D+ Grade sawlogs from the LSA and surrounding Central Highlands Regional Forest Agreement (RFA) area.

In its 2013 and 2014 Resource Outlooks, VicForests announced that it would implement reductions in Ash saw log supply:

*The 2013 Resource Outlook was made available to the industry and the public more generally on 16 May. The outlook shows that ash D+ sawlog harvest levels will significantly decline in 2017-18, from about 300,000 m<sup>3</sup> p.a. to about 215,000 m<sup>3</sup> p.a. (VicForests, 2013, p. 26).*

In its 2015 *Sustainability Report*, VicForests explained that the impacts of the 2009 February fires were responsible for these reductions:

*In response to the impact of these fires on the ash timber resource available for harvesting, VicForests has decreased harvest levels, from about 320,000 m<sup>3</sup> of D grade or better ash saw log per annum in 2002 to about 215,000 m<sup>3</sup> of D grade or better ash saw log per annum in 2013. Ash harvest levels will decrease further in 2017 following the expiry of a number of timber sale agreements (VicForests, 2015, p. 19).*

In 2014, VicForests planned further reductions in Ash saw logs, based on the policy of implementing 'Timber Harvesting Exclusion Zones' (THEZ) around known and newly detected sites containing the critically endangered Leadbeater's Possum (Leadbeater's Possum Advisory Group, 2014). This involved the creation of 200 metre buffers around each detection site from which logging is excluded. VicForests (2014) initially reported a volume reduction of about 10,000 m<sup>3</sup> per annum. However, in February 2017, VicForests (2017) revised its reduction to 43,000 m<sup>3</sup> in D+ Grade sawlogs, with the new D+ sawlog yield being 132,000 m<sup>3</sup> (VicForests, 2017). Areas excluded from logging, as a result of Leadbeater's Possum detections in state forest, only equate to 3,134 hectares of state forest previously available to logging (DELWP, 2017). The Ash forest component of these exclusion zones equates to only 2,848 hectares or 1.8% of the 158,000 hectares of Ash forest available for logging across the state.

Owners of the ASH Heyfield Sawmill, the largest consumer of these saw logs, alleged that the reduced D+ supply would render the mill unviable (The Hermal Group, 2017). Initially, the Heyfield Mill was consuming around 155,000 m<sup>3</sup> of D+ Grade Ash sawlog per annum. The reduction imposed has seen this intake

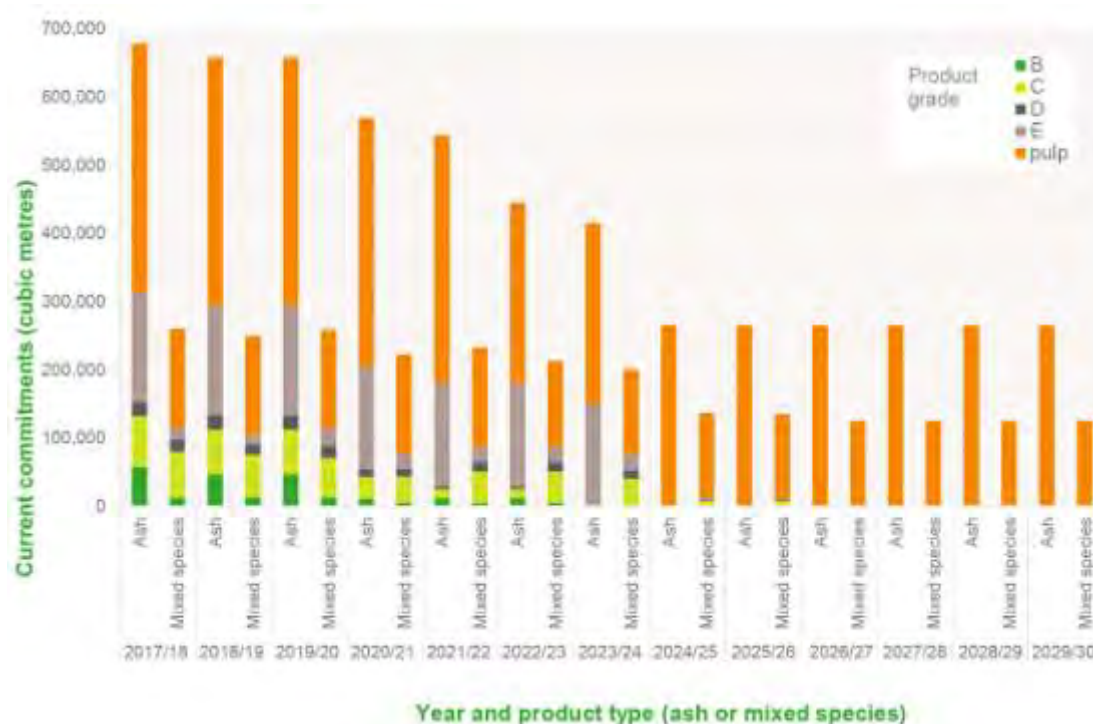


reduced to 80,000 m<sup>3</sup> per annum over a revised three-year contract under state government ownership. This had been rejected by the previous mill owners, who demanded that the original intake be maintained (Driscoll, 2017). However, the Premier of Victoria, Daniel Andrews, alleged that maintaining 155,000 m<sup>3</sup> to the Heyfield sawmill would put at risk the supply of pulp logs to Maryvale. In an interview with Neil Mitchell on 3AW, the Premier stated:

*I met with the head of Nippon Paper, yesterday. He travelled out from Tokyo. We have reached a long-term agreement with them, but I can't announce the details of that today, I will soon. That's the third meeting I have had with him, he is the CEO and there are a thousand jobs at Australian Paper that are at risk. And if you provide unsustainably high levels of resource – timber – to one mill, this mill [Heyfield], then we will not be able to meet our legislated obligations and we will directly put at risk a thousand jobs at Australian Paper in 5, 10, 15 years. I'm just not prepared to do that (Andrews, 2017).*

The Premier was referring to Victoria's legislated obligation to supply an annual volume of pulp logs to Maryvale under the *Forests (Wood Pulp Agreement) Act 1996*. The Heyfield Sawmill, along with other native hardwood sawmills, purchases sawlogs from VicForests through a range of sales processes, including auctions, expressions of interest (EOI) and requests for proposals (RFP) (VicForests, n.d.). Contracts have been awarded to sawmills with periods between three and four years (VicForests, 2015). As per the change in supply offered to the Heyfield Mill, these contracts are renewed and supply commitments can be reviewed. This is not the case with the Maryvale Mills whose successive legislative supply agreements extend over decades. Where D+ Ash sawlog contracts expire by 2022, Ash pulp log contracts extend out to 2030, the timeframe of the LSA (Figure 16). This has been identified by the Victorian Environment Assessment Council (VEAC) as a problem in its *Fibre and Wood Supply Assessment*, where, if Ash sawlog commitment falls below 130,000m<sup>3</sup>, then corresponding volumes of Ash pulplogs may fall short of meeting the legislative commitments for Paper Australia Pty Ltd:

*The longer term component of the pulplog commitment is contingent on there being sufficient sawlog supply for new TSAs [Timber Sales Agreements] to be issued as current contracts expire and maintain supply of D+ ash logs around the 130,000 cubic metres of 2017/18. VicForests advises that any overall sawlog commitment significantly lower than this will not provide enough 'residual' pulplogs to meet the commitments to Australian Paper. This problem is most acute for the ash sawlogs from which Australian Paper produces high quality paper. (VEAC, 2017, p. 39).*



**Figure 16.** Current sawlog and pullog commitments by product type and grade (VEAC, 2017)

The *Fibre and Wood Supply Assessment* noted that forecast decline in ash sawlog supply would result in additional alternative sources of pullogs being required to meet the current legislative commitments of ash pullogs from state forests until 2030 (VEAC, 2017). This would include areas of forest outside the LSA area. This has already occurred, as indicated by statements presented to the *Parliamentary Inquiry into VicForests Operations*. The Secretary of the Department of Economic Development, Jobs, Transport and Resources, Richard Bolt, advised the *Inquiry* of the need for additional alternative pulp log sources outside of the LSA area, because the current LSA area could not supply the legislated volume of pulp logs to the Maryvale Mills. Mr Bolt said that the company was receiving payment to cover the additional costs of sourcing from beyond the LSA area:

*The reason there is provision for some payment to Australian Paper arising from its entitlements to timber under the legislated agreement, the forests wood pulp agreement, which is enshrined, as you know, in legislation, is that there is a requirement that they be supplied with timber from a designated forest area. As you know, the forest area has become increasingly incapable of supplying the full quantum to which they are entitled, and if there is any timber supplied from outside that area that raises costs due to transport, there is an obligation, in a sense, to make Australian Paper good in relation to those increased costs (Bolt, 2017, pp. 44-45).*

Under Clause 13(5) of the *Forests (Wood Pulp Agreement) Act 1996*, the Victorian government is bound to substitute pulp logs from another area at an economic cost if pulp logs cannot be obtained from within the LSA area. This includes taking into account any increased cost of delivery, particularly where

these substituted areas are more distant from the Maryvale Mills. Alternatively, the LSA can be suspended if forests within the LSA area are damaged by fire, disease or other any other cause that prevents the state from providing the pulp logs to the Maryvale Mills.

## **6.2 Obligations to Review and Provisions to Suspend the LSA**

The LSA has been viewed by both the Victorian Government and Paper Australia Pty Ltd as binding, where the obligation to provide legislated pulp log volumes as well as procuring them must be met. However, there are provisions in the *Forests (Wood Pulp Agreement) Act 1996* that may allow flexibility to amend or even suspend the obligation to supply the quantity of pulp logs specified in the LSA. Importantly, the LSA requires the company and the government to plan wood supply jointly.

First, the Act requires that the Victorian Government and the Company jointly prepare a Plan of Utilization for the supply of pulpwood based on the Company's estimates of its pulpwood requirements. The Plan of Utilization is to prescribe the areas to be made available under the Act for the obtaining of pulpwood, estimate the yield for each class of pulp log and provide organisation of and obligations with respect to the felling and extraction of pulpwood. These plans are to be prepared no later than the 30<sup>th</sup> of April in each year. The Victorian Government and Paper Australia Pty Ltd can agree to a modification of the Plan of Utilization (State of Victoria, 1996).

Second, the Act requires that the Victorian Government carry out five-yearly reviews of the LSA area and its supply of pulp logs. In Clause 12, the Act states:

*In order to ensure the effective management and utilization of the forests within the Forest Area the Secretary shall carry out a review of pulpwood within the Forest Area at least once in each period of five years while this Agreement remains in force and shall make the results available to the Company (State of Victoria, 1996, p. 10).*

It is not clear whether the five-yearly reviews have been conducted, but if so, they have not been published. Since Nippon Paper Industries acquired Paper Australia Pty Ltd in 2009, at least two five-yearly reviews should have been completed in 2011 and 2016. At any event, both the company and the government must be fully aware of the state of the LSA forests, projected supply of pulp logs out to 2030 and the impacts of successive fires over that period, both to the forests themselves and to pulp log supply.

Lastly, the *Forests (Wood Pulp Agreement) Act 1996* features provisions for the Victorian Government to suspend its legal obligations to provide Paper Australia Pty Ltd with the specified quantities of pulp logs from state forests should they sustain damage beyond the control of the Victorian Government. Clause 32 of the Act states:

*If any of the forests in the Forest Area or any of the forests identified in any Plan of Utilization which are outside the Forest Area are damaged or destroyed by fire disease or other cause to such an extent that it is impracticable for the Secretary to comply with the provisions of clause 14 [to provide the specified volumes of pulplogs] hereof or that having regard to the situation of those forests and of the Company's mills and other circumstances relevant to such damage or destruction it is impracticable for the Company to obtain under this Agreement supplies of pulpwood of sufficient quantity at reasonable cost whether by extraction by the Company or delivery from the Department to enable production of wood pulp to be carried on in an economic manner then so long as that state of affairs continues –*

- a) the Company shall have no claim against the Secretary for the non-fulfilment of its obligations under clause 14 hereof so far as non-fulfilment is due to any such cause;*
- b) the Company's obligations under this Agreement shall be suspended provided that such suspension shall not affect any liability of the Company to make payments due before such suspension occurs;*
- c) any questions or disputes arising in relation to the operation of this clause 32 and the suspension of the Company's obligations shall be referred for determination in accordance with clause 37. (State of Victoria, 1996, pp. 29-30).*

Clause 37 states that, if these matters were to arise, they should be referred to two arbitrators: one appointed by the Company and the other by the Victorian Government. The provisions of the Commercial Arbitration Act are to be applied and the arbitrators are to decide what is fair and reasonable, having regard to the terms of this Agreement and the circumstances existing at the time of the reference.

Since the passing of the Act in 1996, more than half of the state forests allocated for logging within the LSA have been burnt. If the five-yearly reviews were conducted, it can be assumed that the impacts of these fires on pulp log capacity would be quantified. However, the provisions of Clause 32 under the Act appear not to have been activated by the Victorian Government.

### **6.3 Maryvale Expansion 2008**

In 2005, PaperlinX Ltd announced the installation of a new Elemental Chlorine Free (ECF) bleaching plant and an upgrade of its kraft pulpmill at Maryvale (PaperlinX Ltd, 2005). The intent was to improve long term returns, increase the profitability of Paper Australia Pty Ltd and underpin the strategic value of the Maryvale Mills. The company sought to improve the quality of all paper and packaging products produced at Maryvale, while moving the mills into a position of pulp self sufficiency and enhancing environmental performance. They proposed to increase the bleached pulp manufacturing capacity at the Maryvale Mills to around 210,000 tonnes per annum at start-up



and required a further 200,000 m<sup>3</sup> of eucalypt pulp logs per annum (Australian Paper, 2005). PaperlinX Ltd planned that:

*All of the additional wood required would be supplied from sustainably-managed plantations as soon as practicable and from existing harvesting activities managed by Vic Forests in the transition phase (Australian Paper, 2005, p. 4).*

For existing bleached pulp production to move to 100% plantation supply, PaperlinX Ltd claimed that a further 150,000 m<sup>3</sup> per annum of eucalypt plantation pulp wood would be required (Australian Paper, 2005). At the time, the company considered that it was not economically feasible to procure these volumes from plantations and that the additional pulp log supply would be procured from native forests via VicForests until such time as plantation pulp logs were considered feasible.

PaperlinX Ltd referred to a 'transition' period, during which it would move from sourcing its pulp logs from native forests to newly established plantations:

*A transitional wood supply would be required between the proposed development start date and availability of new plantation wood. Any transitional pulp wood sourced for this purpose from State Forests would be residual wood resulting from Vic Forests' sustainable saw log harvesting regime. This would be harvested in accordance with the agreed Regional Forest Agreements (RFAs). Hence any transitional wood supply volumes made available by Vic Forests would be met by diversion of woodchips that would otherwise have been exported (Australian Paper, 2005, p. 5).*

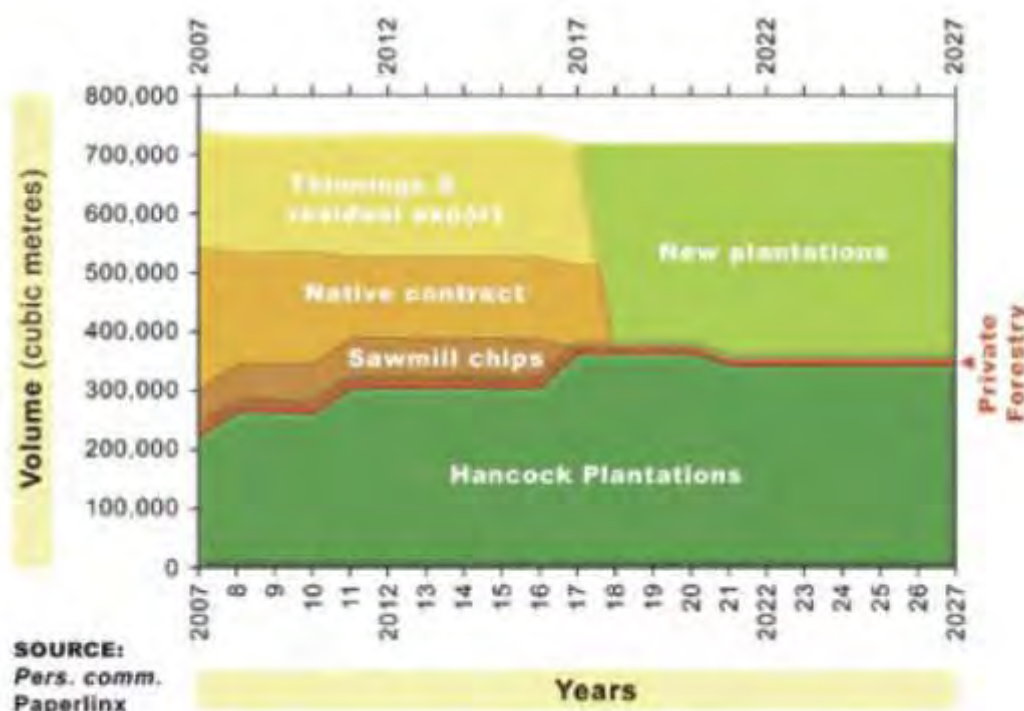
In 2008, PaperlinX Ltd publicly announced that it would phase out its procurement of native forest pulp logs by 2017. Then CEO and managing director of PaperlinX Ltd, David Park, stated:

*Through this investment we are reducing our use of pulp logs and other residue from Victorian State managed forests and moving to use 100 per cent plantation sourced fibre for printing and communication papers produced at Maryvale by 2017 (PaperlinX Ltd, 2006, p. 31).*

This commitment was reaffirmed in the PaperlinX Ltd 2008 annual report:

*This upgrade means that we will move to phase out the use of fibre from state-managed forests for communication papers by 2017 (PaperlinX Ltd, 2008, p. 16).*

This strategy was proactively communicated to a number of environment groups at the time, including WWF, The Wilderness Society and the Australian Conservation Foundation (Victorian Forest Alliance, 2006). A collective of environment groups under the Victorian Forest Alliance published a report 'Choosing a Future for Victoria's Forests', in which the strategy of the native forest pulp log phase out was detailed (Figure 17).



Wood Supply to Maryvale (PaperlinX 2006)\*

**Figure 17.** Timeframe for native forest pulp log phase out by 2017 (Source: Victorian Forest Alliance 2006)

The transition detailed the volume of wood being procured by the Maryvale Mills in 2006 from Victoria's native forests. It was proposed that this volume would have decreased from 450,000 m<sup>3</sup> to 350,000 m<sup>3</sup> by 2009. The mill also sourced volumes of native forest sawmill offcuts estimated to be around 100,000 m<sup>3</sup>. As the amount of wood available from public native forests decreased, it was estimated that there would be a corresponding increase in the amount of wood supplied by Hancock plantations (Victorian Forest Alliance, 2006). PaperlinX Ltd reached an agreement with VicForests for a 'transitional wood supply' from native forests, between the proposed pulp mill upgrade start date and the availability of new plantation wood. The company argued that additional volumes, made available by VicForests, would be met by diversion of woodchips that would otherwise have been exported (Australian Paper, 2005).

In 2008, Paper Australia Pty Ltd and VicForests commenced their new Timber Sales Agreement to support the Maryvale Mills' expansion:

*During May, VicForests commenced delivery of timber under Paper Australia's new Timber Sales Agreement. This forms the first tranche of pulplogs to be supplied by VicForests to support the expansion of paper making at Maryvale. Next financial year an additional supply of at least 80,000m<sup>3</sup> of pulplog will be delivered to the Maryvale site. This will redirect log supply from export woodchip markets to domestic processing by Paper Australia, increasing the domestic employment generated through this sale (VicForests, 2008, p. 28).*

As the kraft mill and bleaching processing expansion was completed in 2008, the transition plan to sourcing all of its pulp logs from plantations was abandoned and volumes of pulp logs from native forests increased.

## 7. The Future of the Legislative Supply Agreement

The *Forests (Wood Pulp Agreement) Act 1996* was passed on the premise that the Maryvale Mills would decrease their dependence on pulp logs sourced from native forests in Victoria (Tehan, 1996). In 2006, PaperlinX Ltd committed to a complete transition from native forest to plantation pulp logs by 2017, including additional pulp logs required for the upgrade and expansion of the Maryvale Mills in 2008 (Australian Paper, 2005). The transition did not eventuate. By 2014, under Nippon Paper Industries Co. Ltd's ownership, the Maryvale Mills were sourcing even more pulp logs from native forests than in 2009.

The LSA afforded to the Maryvale Mills has established an exclusive concession regime that the mills' successive owners and managers have enjoyed for over 80 years. By the time of the expiration of the current LSA, this exclusive concession regime would be 94 years in duration. It has bound the State of Victoria to provide fixed volumes of pulp logs spanning over multiple decades, irrespective of major changes in the social and environmental context around the forest ecosystems from which the mills source their pulp logs. The LSA area is no longer able to provide the legislated volumes of pulp logs and VicForests have been required to create an additional Timber Supply Agreement that provides more pulp logs to the Maryvale Mills outside of the LSA area, at an unknown additional cost to the Victorian tax payer (Bolt, 2017).

Since the *Forests (Wood Pulp Agreement) Act in 1996* passed, successive fires have impacted more than half of the area within the LSA allocated to logging. There are provisions in the Act, requiring that the Victorian Government carry out five-yearly reviews of the LSA area and its supply of pulp logs. It is not clear whether these five-yearly reviews have been conducted nor whether they have assessed the impact of the fires. Furthermore, the impact of these fires alone may enable the Victorian Government to enact the provisions under Clause 32 of the Act, whereby it suspends supply of the legislated volumes to the Maryvale Mills. The impact of these fires in the LSA area, as well as the greater Central Highlands RFA area, has been noted by the Victorian Government in its latest review on the Leadbeater's Possum:

*The impacts of subsequent fires, in particular the 2009 Black Saturday fires, have further skewed the age class distribution of ash species. A primary challenge facing VicForests and the native forest industry is the exhaustion of the 1939 ash regrowth after 2030, but before*

*sufficient new forest resources from subsequent regeneration events are suitable to harvest* (DELWP, 2017, p. 60).

This alarming admission forecasts the exhaustion of the Ash forests or 'Mountain Forest' estate assigned for logging, whether from an ecological or an industry perspective. This is the point of no return. The native forest logging industry, which relies on the Mountain Forests, effectively has no future beyond 2030.

Paper Australia Pty Ltd appears to have rejected the plans of its previous owner PaperlinX Ltd to exit native forests altogether by 2017 and there is no indication of the company moving to secure alternative 'conflict free' sources of pulp logs for its Maryvale Mills.

The Mountain Forest ecosystem now exists in a highly compromised and fragmented state. Another fire could see the collapse of large areas of these critically endangered forest ecosystems, which will be unable to recover. Therefore, this investigation proposes urgent consideration of the following:

1. that all reviews carried out under Clause 12 of the Forests (Wood Pulp Agreement) Act 1996 should be published immediately;
2. that the annual Plan of Utilization agreed between Paper Australia Pty Ltd and the government should be published for each year starting in 2013 when VicForests announced reductions in Ash sawlog supply;
3. that the proposed Plan of Utilization for 2018, due to be prepared by 30 April, should be published; and
4. that the Victorian Government should invoke the provisions of Clause 32 of the Act and suspend the supply of legislated pulp log volumes, given that more than half of the state forest allocated to logging under the LSA has been impacted by recent fires.



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## Appendix A

### Maryvale Mills chronology of events from 1993

Date	Industry	Forests and wood supply	Maryvale native forest intake (m <sup>3</sup> /an)*
1993	Amcor acquired APPM Tasmanian operations, becoming Australia's monopoly producer of printing and writing paper with Trade Practices Commission approval		
1996	Amcor committed to expand printing and writing paper production at Maryvale (construction of M5 paper machine). Cost \$400 million	<i>Forests (Wood Pulp Agreement) Act 1996</i> (LSA) passed extending the legislated native forest wood supply from 2004 to 2030 Amcor promised less reliance on native forest wood by 2010	500,000
1998		Central Highlands Regional Forest Agreement signed	490,529
1999	M5 Paper Machine officially opened		462,560
2000	Amcor demerger. Paper Operations (plantations, production, sales, Maryvale Mills) separated into a new ASX listed company PaperlinX	LSA assigned to PaperlinX subsidiary Paper Australia Pty Ltd	443,523
2001		PaperlinX sells Australian Paper plantations to Hancock Victorian Plantations. Price \$152 million	487,774
2002			533,528
2005	PaperlinX approved Maryvale upgrade - new ECF bleaching plant and kraft mill		399,130
2006			353,806
2007		Major bushfires – Great Dividing Range	365,176
2008	Maryvale upgrade completed	Timber Sales Agreement between Paper Australia Pty Ltd and VicForests for supply of native forest pulp logs from outside the LSA area	435,070
2008		PaperlinX announced plan to phase	509,804



out use of native forest wood by  
2017

<b>Date</b>	<b>Industry</b>	<b>Forests and wood supply</b>	<b>Maryvale native forest intake (m<sup>3</sup>/an)*</b>
2009	Nippon Paper Industries acquired Paper Australia Pty Ltd from PaperlinX (including Maryvale mills, LSA, Timber Sales Agreement). Cost \$600 million	Black Saturday bushfires	558,002
2013		VicForests announced reduced ash sawlog supply from 2017-18	526,860
2015	De-inking plant opened. Cost \$90 million with contributions from CEFC \$9.9 million, Commonwealth \$9.5 million, Vic government \$amount unknown	Mountain Ash ecosystem listed as critically endangered by IUCN Leadbeater's Possum listed as critically endangered under EPBC Act	
2016		Greater Glider listed as vulnerable under EPBC Act	
2017	Maryvale waste to energy feasibility study started		
2018		Central Highlands RFA due to expire; extended for two years	

## Appendix B

### Employment at Maryvale and the logging industry

The Maryvale Mills and the subsidiary managing it, Australian Paper, employ approximately 1,100 people in Victoria (Australian Paper 2013), which equates to around 5% of the 21,222 people employed in Victoria's forest industries in 2012 (Table A1). It is considered a mixed plantation and native forest primary processor of logs, in which, the sector employs a total 1,461 people (Schirmer *et al.* 2013).

**Table A1.** Total estimated employment by industry sector (FIS and ABS), 2012 (Source: Schirmer *et al.* 2013).

Activity	Hardwood Plantations	Softwood Plantations	Mixed Plantations	Native Forests	Mixed Native & Plantation	Unknown	Total
Growing	44	199	15	121	7	0	385
Forestry Support	110	555	761	270	176	100	1,973
Primary Processing	32	1,571	21	710	1,461 (1,156 at Maryvale)	683	4,478
Secondary Processing							14,384
<b>Total within Victoria</b>	<b>186</b>	<b>2,325</b>	<b>797</b>	<b>1,101</b>	<b>1,644</b>	<b>783</b>	<b>21,222</b>

The largest percentage of employment in the logging, pulp and timber sector is in secondary processing, which employs 14,384 or 68% of the logging industry dependent workforce. However, Schirmer *et al.* (2013) report that much of this workforce may not be dependent on Victorian grown timber:

A further 14,384 workers were employed in secondary processing industries [...] much of this secondary processing does not depend on Victorian grown timber. It is not possible to more specifically estimate the extent to which the secondary processing sector depends on Victorian grown timber versus wood and fibre sourced from other locations (Schirmer *et al.* 2013, p15).

Examples of secondary processing includes roof truss manufacturing and engineered wood production.

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## Appendix 6

### After the Logging

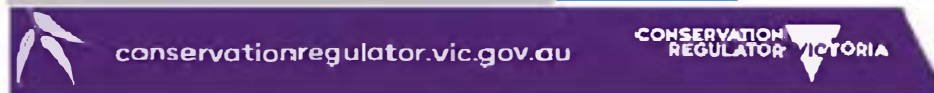
Failing to regrow Victoria's native forests.





(DELWP)

**From:** (DELWP)  
**Sent:** Friday, 16 April 2021 12:57 PM  
**To:** Forest Reports (DELWP)  
**Cc:** (DELWP); (DELWP)  
**Subject:** OFFICIAL: FW: Regeneration failures  
**Attachments:** Attachment to RFPG breach report.pdf  
**Categories:** [SharePoint] This message was saved in 'Regulatory Operations > Timber Harvesting Compliance - Investigations (S)'



We acknowledge Victorian Traditional Owners and their Elders past and present as the original custodians of Victoria's land and waters and commit to genuinely partnering with them and Victoria's Aboriginal community to progress their aspirations.



OFFICIAL

**From:** Rubicon Forest Protection Group  
**Sent:** Tuesday, 13 April 2021 12:52 PM  
**To:** (DELWP) elwp.vic.gov.au>  
**Cc:** (VF) @vicforests.com.au>  
**Subject:** Regeneration failures

forwarded to

**EXTERNAL SENDER: Links and attachments may be unsafe.**

Good afternoon

I wish to report 120 putative breaches within the Central FMA of the part of the Code applying to regenerating logged forests, specifically Code CI 2.6.1.7. This clause requires that

***Harvested coupes must be regenerated as soon as practical, including follow up or remedial action in the event of regeneration failure.***

Table 1 of the attachment identifies Central FMA coupes, the final logging of which (as measured by closeness of actual to estimated net area) ended at least 2½ years prior to the 2020 TRP, but which remained listed as 'current' in that TRP, and in the 2017 TRP. This suggests that either no attempt had been made to initiate regeneration within the required time frame, breaching the 'as soon as practical' requirement of CI 2.6.1.7, or that the distinction between 'current' and 'current regeneration' is not taken seriously by VicForests. If the former, then it is only a matter of the Code being contravened, but if the latter I suggest that this may be considered deceptive or misleading conduct, in that it presents a false picture to the public, to the industry and to politicians about the true availability of coupes for logging.

The total area of the 46 coupes listed in Table 1 is 930 ha and as at 30 December 2020 the average time they had remained apparently unregenerated was 3 years.

Table 2 of the attachment lists Central FMA coupes listed as 'current regen' in the 2017 and 2020 TRPs and last logged on the date shown, but have not yet been handed back, as revealed in the Annual Regeneration reports submitted by VicForests to the Secretary of DJPR by 30 September each year. The large number of coupes indicates a lack of proper effort to remediate failed regeneration within the required time frame, breaching the 'as soon as practical' requirement of CI 2.6.1.7.

The total area of the 74 coupes listed in Table 2 is 1,420 ha and as at 30 December 2020 the average time they had remained apparently unregenerated was 7½ years.

As well as the contravention of Code Clause 2.6.1.7, I refer you to [Biodiversity 2037 page 48](#) which says that *All government agencies will need to consider and act on their 'duty of care' to the land, waters and biodiversity that they manage, as part of their standard management practices. Such actions should include:*

- *Considering the Biodiversity Plan goals and principles, and relevant information products in decision making*
- *Considering how to contribute to the achievement of the targets, and reflecting this consideration in strategies and annual business plans*
- *Taking reasonable steps to avoid exacerbating threats to biodiversity, as part of both planning and implementation of programs*
- *Reporting on their biodiversity performance, including contributions to biodiversity targets as well as the consequential impacts from public land-use decisions.*

The third dot point is particularly relevant here, especially given that S.4B(2)(a) of the *Flora and Fauna Guarantee Act 1988* requires agencies to abide by the Biodiversity Strategy, *Biodiversity 2037*.

I consider that elements of Section 4B(3) of the *Flora and Fauna Guarantee Act 1988* are also contravened by these regeneration failures.

Given the seriousness of the allegations contained here, especially since they also occur in other FMAs, I ask that a high priority be given to their investigation and that you keep RFPG informed of the progress thereof.

Kind regards

  
Rubicon Forest Protection Group



Table 1: Current coupes

Coupe address	Coupe name	last logged	2017 TRP Net (ha)	2020 TRP Net (ha)	Actual logged total (ha)	Unregenerated period (days)
281-513-0012	Northeast Spur	30/03/2017	14	14	16.1	1,356
281-515-0001	Envelope	31/08/2017	8	8	8.0	1,202
281-516-0013	Cavity	24/11/2016	4	4	4.3	1,482
283-503-0004	Blue Box	30/06/2018	16	16	19.9	899
283-503-0014	Garlick	10/11/2016	38	38	37.4	1,496
283-503-0016	Lillee	10/11/2017	24	24	31.2	1,131
284-503-0009	New Whiteback	30/12/2017	20	20	25.2	1,081
286-505-0020	Flint	30/06/2018	25	25	23.6	899
287-503-0003	Blind Freddy	29/09/2017	21	21	18.9	1,173
287-508-0002	Bonds	30/06/2018	31	31	27.1	899
287-508-0003	Beebop	30/06/2018	23	23	18.5	899
287-508-0004	Rocksteady	30/06/2018	27	27	21.0	899
287-508-0008	Roger Ramjet	30/06/2018	25	25	16.6	899
287-508-0009	Rio	30/06/2017	18	18	19.5	1,264
287-508-0012	Calvin	30/06/2018	19	19	15.7	899
287-510-0007	Magilla Gorilla	15/01/2018	15	15	15.0	1,065
287-510-0008	Super Ted	12/01/2018	32	32	31.5	1,068
287-510-0009	Cool McCool	30/06/2018	23	23	19.3	899
288-518-0006	Impala	30/06/2018	22	8	5.5	899
290-527-0004	Camberwell Junction	27/04/2018	27	27	20.5	963
297-503-0003	Tasmanian	30/06/2018	7	7	8.6	899
298-505-0001	Tops	24/02/2017	26	26	33.7	1,390
298-510-0004	Troll	10/04/2018	13	13	15.8	980
298-513-0004	King Island	30/06/2017	23	23	23.0	1,264
298-513-0005	French Island	30/06/2017	19	19	16.0	1,264
298-516-0001	Glenview	6/11/2017	26	26	30.0	1,135
300-517-0003	Funnel Web	29/03/2018	15	15	23.7	992
300-517-0004	Black Widow	30/04/2018	20	20	18.5	960
301-548-0002	Rambler	31/08/2017	16	16	18.7	1,202
309-507-0001	Mont Blanc	30/06/2017	13	13	13.2	1,264
309-507-0004	The Eiger	30/06/2017	23	23	28.8	1,264
309-510-0003	Booster	18/11/2016	26	26	22.0	1,488
309-512-0001	Lil jon	30/06/2017	15	15	31.3	1,264
309-512-0002	Creepy	19/01/2018	4	4	17.3	1,061
309-512-0008	Eminem	18/01/2018	13	13	11.6	1,062
312-510-0007	Bromance	14/03/2018	18	18	18.6	1,007
317-508-0008	Professor Xavier	5/06/2017	20	20	15.3	1,289
318-512-0008	Montague	30/11/2017	18	18	20.2	1,111
318-512-0009	Eddie Would Go	30/06/2018	15	15	34.9	899
318-512-0010	The Wolfman	30/06/2018	20	20	29.6	899
318-512-0016	Mango Man	30/11/2017	16	16	13.6	1,111
320-501-0019	Riptide	16/02/2018	18	18	19.1	1,033
320-501-0026	Ghost	24/11/2017	12	12	9.8	1,117
320-502-0021	Devante	28/04/2017	11	11	18.1	1,327
320-502-0044	Fredrico	28/04/2017	10	10	12.3	1,327
320-503-0020	Fedora	18/01/2018	32	32	31.2	1,062



Table 2: Current regen coupes

Coupe address	Coupe name	Forest type	2017 TRP net area	2017 TRP gross area	Actual net area (ha)	last logged	Unregenerated period (days)
281-516-0005	Brown Dog	Foothill Mixed Species	19	27.2	20.8	31/10/2013	2,602
281-516-0010	Red Fox	Foothill Mixed Species	17	23.8	22.9	31/10/2013	2,602
281-516-0012	Grey Wolf	Mountain Mixed Species	16	16.4	16.0	29/11/2010	3,669
282-512-0004	Doghouse	Foothill Mixed Species	13	22.5	18.0	30/09/2013	2,633
284-501-0005	Black Mohawk	Mountain Mixed Species	21	27	11.8	10/12/2015	1,832
285-006-0001	Parks Thinnings	Alpine Ash	9	89.3	8.9	13/09/2012	3,015
286-005-0002	Winchline	Alpine Ash	7	61.2	34.0	26/11/2004	5,863
286-505-0017	Dragline	Alpine Ash	20	24.5	24.8	30/06/2012	3,090
286-509-0007	Trevor RDC	Alpine Ash	4	12.7	12.1	5/05/2015	2,051
286-512-0021	Pocket Rocket	Alpine Ash	11	27.2	15.9	28/11/2014	2,209
287-503-0005	Gabriel	Alpine Ash	2	39.5	13.9	30/06/2014	2,360
287-512-0030	Hogget	Alpine Ash	31	47.6	12.5	26/02/2016	1,754
288-518-0008	Giraffe	Alpine Ash	27	50.4	26.1	18/03/2016	1,733
288-518-0009	Gazelle	Alpine Ash	7	35.4	3.3	18/03/2016	1,733
297-511-0001	Blowhard Dam	Mountain Ash	23	35.6	28.7	19/05/2010	3,863
297-511-0003	Crawler	Mountain Ash	20	51.3	19.8	2/10/2013	2,631
297-538-0002	Skinny Jim	Mountain Ash	14	19.1	10.1	16/09/2015	1,917
297-819-0005	Delilah	Mountain Ash	19	15.5	11.8	10/08/2007	4,876
298-502-0001	Spinning	Mountain Ash	22	38.4	3.2	20/07/2015	1,975
298-505-0002	Ash Finger	Mountain Ash	4	18.1	6.0	31/03/2016	1,720
298-510-0001	Buggy	Mountain Mixed Species	17	21.6	18.9	30/10/2015	1,873
298-515-0004	Bass Strait	Mountain Ash	14	24.3	14.4	29/06/2015	1,996
298-855-0009	Big Axe	Mountain Ash	1	44.6	13.5	17/11/2010	3,681
298-866-0004	Raining Fire	Mountain Ash	31	40	26.0	27/04/2011	3,520
298-866-0006	Billygoat	Mountain Ash	7	27.5	9.4	10/04/2018	980
298-874-0003	Big Kahuna	Mountain Ash	31	33.1	26.3	19/03/2010	3,924
299-500-0001	Kalamata	Mountain Ash	14	56.5	25.8	1/12/2009	4,032
299-501-0002	Apartments	Mountain Ash	21	35.5	10.8	29/10/2015	1,874
299-501-0003	House	Mountain Ash	23	29.7	13.4	11/12/2015	1,831
299-501-0006	Cubby	Mountain Ash	20	42.1	11.9	6/03/2015	2,111
299-510-0002	Yellow Band	Mountain Ash	27	54.1	34.6	18/12/2012	2,919
299-510-0003	Sea Dragon	(blank)	5	17.6	10.3	30/06/2012	3,090
299-510-0004	Sea Shells	(blank)	16	47.9	34.5	27/03/2012	3,185
299-511-0005	Quercus	Mountain Ash	18	100	22.1	30/06/2011	3,456
300-501-0001	The Screw	Mountain Ash	23	26.6	18.2	19/02/2016	1,761
300-503-0001	House of Ash	Mountain Ash	23	40.4	17.8	7/01/2016	1,804
300-517-0001	Fenton	Mountain Ash	7	31.6	17.9	19/12/2013	2,553
300-527-0001	Sherpa	Mountain Ash	37	51	8.0	28/08/2015	1,936
300-527-0004	Summit Ridge	Mountain Ash	26	59	33.0	4/11/2013	2,598
300-533-0001	Third Quarter	Mountain Ash	8	19.2	9.9	17/11/2015	1,855
300-901-0009	Cog	Mountain Ash	22	27	19.5	19/02/2016	1,761
300-904-0010	Jukebox	Mountain Ash	19	25.3	17.1	22/12/2010	3,646
300-917-0005	Mosquito	Mountain Ash	28	41	23.2	8/01/2016	1,803
300-941-0008	Murrindindi Headwaters	Mountain Ash	16	17.4	16.8	26/07/2006	5,256
301-560-0003	Boo Radley	Mountain Ash	25	32.5	21.8	6/01/2012	3,266
301-565-0002	Toboggan	Mountain Mixed Species	13	28.9	18.2	29/11/2019	382
307-003-0024	Anderson Mill	Mountain Ash	30	50.1	31.5	17/02/2005	5,780
307-505-0002	Glant	Mountain Ash	17	19.4	16.5	17/06/2010	3,834
309-005-0005	Strickland Spur Ash	Mountain Ash	11	32.6	23.4	23/10/2006	5,167
309-012-0007	Sango	Mountain Ash	20	38.4	27.1	27/03/2012	3,185
309-012-0008	Blackeagle	(blank)	6	40.1	29.9	27/03/2012	3,185
309-501-0001	Quel	Mountain Ash	35	45.5	27.7	31/05/2010	3,851
309-508-0013	Hathor	Mountain Ash	8	14.1	9.7	5/01/2011	3,632
309-508-0015	Sudan	Mountain Ash	2	44.2	25.4	3/04/2013	2,813
309-509-0002	Zesa	Mountain Ash	17	35.2	12.9	9/05/2011	3,508
312-011-0006	Lower Snowy	Alpine Ash	9	32.4	17.3	30/10/2006	5,160
312-512-0002	Dragon	Mountain Ash	4	43.3	18.6	12/02/2013	2,863
312-512-0004	Liverpool	Mountain Ash	13	51.9	33.7	30/06/2017	1,264
317-505-0002	Homeboy	Alpine Ash	22	35.9	28.7	4/01/2016	1,807
320-501-0001	Dirty Dancing	Alpine Ash	19	27.5	30.4	29/11/2016	1,477
320-502-0015	Fat Albert	Alpine Ash	23	53.5	36.9	6/11/2013	2,596
320-502-0016	Donald Duck	Alpine Ash	16	45.3	30.4	31/01/2013	2,875
320-502-0017	Betty Boop	Alpine Ash	23	37.8	17.2	25/11/2015	1,847
320-502-0019	Winnie the Pooh	Alpine Ash	25	45.8	31.9	2/12/2013	2,570
320-502-0023	Olive Oil	Alpine Ash	17	32.2	11.7	17/12/2015	1,825
320-502-0024	Green Lantern	Alpine Ash	10	12.5	10.4	2/12/2013	2,570
320-502-0028	Versace	Alpine Ash	8	35.4	5.5	31/03/2016	1,720
320-502-0041	Yellands	Alpine Ash	35	50.3	24.9	31/10/2019	411
320-503-0001	Quick Stop	Alpine Ash	18	32.1	18.4	19/10/2015	1,884
320-503-0003	Gridiron	(blank)	25	32.8	8.4	2/05/2012	3,149
320-503-0005	Vimbai	Alpine Ash	18	42.1	15.9	7/03/2014	2,475
320-503-0010	Short Drop	Alpine Ash	25	44.1	16.1	22/10/2015	1,881
320-503-0011	Gaul	Alpine Ash	11	28.6	17.5	20/02/2013	2,855
320-503-0016	Cappa	(blank)	19	45.5	28.1	1/05/2012	3,150



## Case Details

Receiving Officer			
Date of Referral Received	16/04/2021		
CMS Number	628	Other Reference Number	2021-0046
ECM Case File Link	<a href="#">Link</a>		
Details of reporting entity/ informant	, Rubicon Forest Protection Group		
Description of allegation	<p>Allegation is split into two parts based on two tables submitted.</p> <p><u>Table 1 allegation</u></p> <p>That coupes in the Central FMA listed on the TRP that:</p> <ul style="list-style-type: none"> <li>• have harvest history area (ha) similar to the TRP estimated harvest area (ha); and</li> <li>• harvesting ended (according to the harvest history layer) at least 2.5 yrs prior to the 2020 TRP; and</li> <li>• are listed as 'current' and not 'current regen'</li> </ul> <p><i>"have either had no attempt made to initiate regeneration within the required time frame, breaching the 'as soon as practical' requirement of CI 2.6.1.7,</i></p> <p><i>or</i></p> <p><i>that the distinction between 'current' and 'current regeneration' is not taken seriously by VicForests. If the former, then it is only a matter of the Code being contravened, but if the latter I suggest that this may be considered deceptive or misleading conduct, in that it presents a false picture to the public, to the industry and to politicians about the true availability of coupes for logging".</i></p> <p><u>Table 2 Allegation</u></p> <p><i>Table 2 of the attachment lists Central FMA coupes listed as 'current regen' in the 2017 and 2020 TRPs and last logged on the date shown, but have not yet been handed back, as revealed in the Annual Regeneration reports submitted by VicForests to the Secretary of DJPR by 30 September each year. <u>The large number of coupes indicates a lack of proper effort to remediate failed regeneration within the required time frame, breaching the 'as soon as practical' requirement of CI 2.6.1.7.</u></i></p> <p><i>The total area of the 74 coupes listed in Table 2 is 1,420 ha and as at 30 December 2020 the average time they had remained apparently unregenerated was 7½ years.</i></p> <p>also alleges that the above failings represent a breach of the FFG Act s.4B(2)(a) requiring a public authority to have proper consideration to the Biodiversity Strategy, and also s.4B(3) which requires public authorities to give consideration to their impacts on biodiversity.</p>		
	Act/ Regulation: Sustainable Forests (Timber) Act 2004		

# Case Assessment Coversheet

Legislative reference (no requirement to be exhaustive)	Flora and Fauna Guarantee Act 1988 – as relating to having consideration of objectives of the Act.
	Section/ Reg: SF(T)A – 45 FFG – S.4B
	Code / other regulatory instrument: Code 2.6.1.3 Action must be taken by the managing authority to ensure the successful regeneration of a harvested coupe, Code 2.6.1.7 Harvested coupes must be regenerated as soon as practical, including follow up or remedial action in the event of regeneration failure. MSP 9.1.1.8 Where stocking, health or early growth is inadequate, remedial work must be conducted as soon as practicable and within 5 years of the previous regeneration attempt to obtain adequate regeneration. Further assessment must be undertaken following remedial treatment to ensure that it has been successfully regenerated.
Date of alleged offence	
Details of alleged offender (Name, DOB, address, contact details etc.)	VicForests
Location of alleged offence (Inc. land tenure if known)	Lat/Long: NA multiple coupes referenced Grid: Coupe address & name:
Statute of Limitations date	NA – multiple coupes over many years

## Urgency

Has this matter been identified for urgent action as per the Case Management SOP?

☐ Yes / ☒ No

Notes (if required):

## Case Priority and Complexity

P&C Assessment Officer:

Date of Triage Assessment:

CRITERIA	PRIORITY GRADING			Priority Score & Notes
	(3) LOW PRIORITY	(2) MEDIUM PRIORITY	(1) HIGH PRIORITY	e.g. 1, 2 or 3
Level of environmental harm caused by the alleged unlawful activity	One off, low impact or administrative offence	Intermittent, medium impact	Ongoing and continuous, high negative impact involving threatened species/threatened ecological vegetation classes or cultural heritage values	3
Conservation Regulator's or Region's regulatory priorities	Not aligned with either CR or Region's regulatory priorities	Aligned with 1 CR or Regional regulatory priority	Aligned with >1 CR or Regional regulatory priority	3
Stakeholder sensitivity: Industry/media/national interest	No identified industries, media or national interest	Possible industry, media or national interest	High level interest derived from industry, media or national approach	3
Level of deterrence/incapacitation derived from compliance action	Low level of specific deterrence & incapacitation anticipated	Moderate level of general & specific deterrence & incapacitation anticipated	High level of general & specific deterrence & incapacitation anticipated	3
Reputational risk to DELWP as environmental regulator	Minimal to zero risk of reputation diminishment	Medium risk to reputation of DELWP as environmental regulator	High risk of diminished reputation if no investigation or follow up work is conducted	3
Commercial element of alleged offending	No commercial element OR <\$10,000	\$10,000 - \$100,000	> \$100,000	3
Risk to public safety	No foreseeable harm to occur to community members	Possibility of injury or requirement for first aid treatment or short-term hospital stay	Death or permanent disability	3

# Case Assessment Coversheet

COMPLEXITY GRADING				Complexity Score & Notes
CRITERIA	Low Complexity (C)	Medium Complexity (B)	High Complexity (A)	e.g. A, B or C
Jurisdiction	Involves DELWP legislation only	Involves DELWP offences & potential additional offences outside DELWP's jurisdiction	Involves DELWP offences and clear additional offences outside DELWP's jurisdiction	<b>C</b>
Legislative complexity of case	Can be dealt with via IN or warning letter	Multiple offences committed, dealt with via prosecution	Multiple offences with complex or large amount of evidentiary requirements, involves formal prosecution or licence revocation or cancellation	<b>C</b>
Internal management requirements for the case	Requires routine levels of supervision and minimal interaction with technical experts/legal advice	May require close level of supervision and interaction with technical experts/legal advice	Will require close level of supervision and input from technical experts/legal advice	<b>B</b>
Identification of suspect	Identification known, possibly with history	Identification possible	Identification difficult	<b>C</b>
Modus operandi	Factors clearly evident	Some factors require determining	Factors not clearly evident	<b>C</b>
Budget estimate and estimated FTE contribution on initial assessment	> \$5,000 />1 months = 1 FTE	\$5,000 - \$20,000/1-2 months = 2-10 FTEs	> \$20,000/>3 months/>10 FTEs	<b>C</b>
Conservation Regulator resource implications	Case can be resolved with Regional CR and/or FFOD resources and limited assistance from external agencies	Will require extra resources from outside a Region for case resolution and possible limited assistance from external agencies	Will require extra resources from outside a Region & external agencies in an ongoing capacity for case resolution	<b>C</b>

**Final Recommended Triage Score: B3**

**Recommended Outcome: Low Priority - Close Case**



## Comments:

█ has not provided any physical evidence that regeneration at any of the coupes he has listed has either not been attempted, or if it has failed that it has not had follow up regeneration attempts and is not being managed.

There are multiple reasons why coupes may remain listed as 'current' rather than 'regenerating' after several years. These reasons include:

- Coupes that are partially harvested may have one section regenerated, while another section (or sections) will be planned for future harvest. These coupes remain at status 'current', as the coupe cannot be classified as regenerating until the whole coupe is actually regenerating.
- Regeneration activities may be delayed by external events, including compounding events, such as a big bushfire season diverting resources from both harvesting and regeneration burning to fire fighting, and dry seasons not providing an adequate window to undertake the regeneration burn in favourable conditions.
- Injunctions on coupes may also impact on ability to undertake regeneration activities.
- It should be noted that THCU officers have visited a number of the coupes in Table 1 and have observed that the coupes have had regeneration activity occur, are regenerating, and may also only be partly harvested.

There are also reasons for coupes remaining at 'regenerating' status for an extended period, this includes:

- Harvested and regenerating coupe being impacted by bushfire. E.g. Black Saturday bushfire impacted regenerating coupes, which were then subject to some salvage logging, but also subject to multiple regeneration attempts due to the impact on bushfire of a forest that was unable to produce enough seed to regenerate.
- Other coupes may have regeneration failures, and multiple subsequent regeneration attempts over years, resulting in a diminishing area requiring regeneration, however the coupe as a whole must be listed until sufficient regeneration has occurred and is documented and signed off through the regeneration assessment process.
  - Regeneration failures may be caused by a number of factors, including browsing pressure from herbivores (native and non-native), damage by cattle grazing too soon after regeneration, disease or pest attack.
- Some coupes may commence operations, such as being marked and a machine entering the site, but no actual harvesting occur (such as injunctioned coupes / bushfires diverting resources). Operations may then move away from that area for several years, but the coupe will stall at 'current' or 'regenerating' status as a regeneration report is not created, as no harvesting actually occurred.

It should also be noted that the MSP provides an extended period for follow up regeneration works to occur.

9.1.1.8 Where **stocking**, health or early growth is inadequate, remedial work must be conducted as soon as practicable and within 5 years of the previous regeneration attempt to obtain adequate regeneration. Further assessment must be undertaken following remedial treatment to ensure that it has been successfully regenerated.

For these reasons, in the absence of any physical evidence of regeneration failure or non-attempt, it is not reasonable to assume that, even where there are issues with achieving successful regeneration, that the Code or MSPs have been breached.

Notwithstanding the above reasons that may explain regeneration documentation/categorisation 'delay', or indeed the reasons for regeneration taking a longer time than a member of the public may expect, the THCU has in 2021 turned its collective mind to how to incorporate the assessment of regeneration into the Coupe Inspection Program. Therefore, whilst it is recommended that this Forest Report is NOT accepted, it is suggested that that the

# Case Assessment Coversheet

information provided be consolidated into THCU's CIP to assist in planning for, targeting, and undertaking inspections to assess compliance with regeneration prescriptions.

## Manager Approval

Name: <input type="text"/>	Signature: <input type="text"/>
Role: Manager, THCU	Date: 07/06/2021

CIP Case Officer Assigned:

CIP Case Manager Assigned:

## Initial Desktop Assessment

Notes from initial desktop assessment (i.e. WLS, Land status, VicRoads etc.)

## Declaration of Conflict of Interest


Conflict of Interest in respect to cases may include a number of instances that may influence or be perceived the influence the conduct of the case and investigating officers. This can include (but is not limited to):

- private interests that could improperly influence decisions or actions when performing public duties
- financial gain or loss (money does not need to change hands for an interest to be financial)
- preferential treatment or prejudice resulting from a relationship or other personal involvement with a person or group

If no conflict of interest exists for this case, sign below.

If a conflict of interest is identified, refer to the departmental policy for addressing conflicts of interest [here](#).

### Declarations

<b>Case Officer declaration</b>	
To the best of my knowledge and belief, I hold no actual, perceived or potential conflicts between my public duties and my private and/or business interests in accordance with the Conflict of Interest Policy. I acknowledge and agree to comply with the Conflict of Interest Policy for managing an actual, perceived or potential conflict of interest.	
Signature: 	Date: 04/06/2021
<b>Case Manager declaration</b>	
To the best of my knowledge and belief, I hold no actual, perceived or potential conflicts between my public duties and my private and/or business interests in accordance with the Conflict of Interest Policy. I acknowledge and agree to comply with the Conflict of Interest Policy for managing an actual, perceived or potential conflict of interest.	
Signature:	Date: 07/06/2021



# Conservation Regulator

Department of Environment Land, Water and Planning

[conservationregulator.vic.gov.au](http://conservationregulator.vic.gov.au)

Rubicon Forest Protection Group

By email only: [REDACTED]

Ref: 2021-0046

Dear [REDACTED]

## ASSESSMENT OF INFORMATION

### VICFORESTS REGENERATION OF TIMBER HARVESTING OPERATIONS AT MULTIPLE COUPES IN THE CENTRAL FOREST MANAGEMENT AREA

On the 16 April 2021 the Timber Harvesting Compliance Unit (**the THCU**) of the Conservation Regulator received information alleging non-compliance with the *Code of Practice for Timber Production 2014* (**the Code**) and the incorporated *Management Standards and Procedures for timber harvesting operations in Victoria's State forests 2014* (**the MSPs**) at multiple coupes in the Central Forest Management Area (**FMA**). The reference for this matter is **2021-0046**.

Specifically, the allegations included:

- Multiple coupes in the Central FMA have either had no attempt made to initiate regeneration within the required time frame, breaching the 'as soon as practical' requirement of Code clause 2.6.1.7, or that the distinction between 'current' and 'current regeneration' is not taken seriously by VicForests.
  - In relation to the matter of record keeping not being taken seriously by VicForests, you suggest that this may be considered deceptive or misleading conduct.
- 74 coupes in Central FMA are listed as 'current regen' and have not been handed back. You advise these coupes have remained unregenerated for an average of seven and a half years.

The THCU has assessed this matter and it has not been accepted for investigation for the following reasons:

- No physical evidence has been supplied to substantiate the allegation that regeneration has not been attempted, or that coupes have remained unregenerated for seven and a half years.
- There are multiple reasons why coupes may remain on a Timber Release Plan (**TRP**), listed as either 'current' or 'current regen' including:
  - A coupe is being harvested in more than one operation over multiple seasons; therefore the coupe will remain at a status of 'current' even though one harvesting operation in the coupe may be currently regenerating.
  - Regeneration of a coupe may be delayed, or the success impacted, by external factors, such as:



- a significant bushfire season or event diverting resources from the completion of harvesting or the undertaking of regeneration activities, including regeneration burning and sowing.
  - Unfavourable conditions resulting in an insufficient window to undertake regeneration activities in a given season.
- I also draw your attention to MSP 9.1.1.8, which states:

*Where stocking, health or early growth is inadequate, remedial work must be conducted as soon as practicable and within 5 years of the previous regeneration attempt to obtain adequate regeneration. Further assessment must be undertaken following remedial treatment to ensure that it has been successfully regenerated.*
  - Coupes may remain listed as 'current regen' for multiple years as one or more regeneration operations occur following the failure of the initial regeneration attempt. A coupe remaining listed as 'current regen' cannot be taken to indicate that either no regeneration has occurred, or that there has been a complete failure of the coupe to regenerate.

Notwithstanding the above decision to not investigate this matter, I can advise that the Conservation Regulator is currently considering how forest regeneration and the removal of regenerated coupes from the TRP is monitored, to ensure the ongoing viability of regenerating forests when management returns to the Department of Environment, Land, Water and Planning (**DELWP**). This work will inform the Conservation Regulator's proactive Coupe Inspection Program.

If you have any questions or would like to discuss this matter further, please contact the THCU at [forest.reports@delwp.vic.gov.au](mailto:forest.reports@delwp.vic.gov.au).

Yours sincerely,



 Timber Harvesting Compliance Unit

Date: 07 / 06 / 2021