



# Forest practices compliance and assessment report

## 2009–10



Compliance Program

Forest Practices Authority

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*Cover photograph: The FPA carries out an annual independent assessment of forest practices plans. The assessment is carried out by consultant independent assessors, after they have attended a calibration day which is designed to ensure consistency in the interpretation of the assessment criteria. Here, two of the assessors (left and centre) discuss standards with the FPA's Compliance Manager (right).*

This report addresses the Forest Practices Authority's statutory obligations with respect to s. 4(E)(1)(b) of the *Forest Practices Act 1985*. A summary of this report is included in the *Forest Practices Authority's Annual Report 2009–10*, which is also available on the website <[www.fpa.tas.gov.au](http://www.fpa.tas.gov.au)>.

The forest industry has a responsibility to adequately supervise and monitor its forestry operations to ensure compliance with the *Forest Practices Act* and the *Forest Practices Code*. Many forest managers undertake formal in-house monitoring, often as part of environmental management systems consistent with standards such as ISO 14001. Formal reporting on compliance is required upon the completion of all FPPs under s. 25A of the *Forest Practices Act*. Independent monitoring is carried out by:

- an independent assessment of a representative sample of all FPPs by the FPA
- the Chief Forest Practices Officer and other staff of the FPA in the course of routine inspections, monitoring of the performance of FPOs, and investigations arising from complaints and alleged breaches of the *Forest Practices Code*
- monitoring of natural and cultural values by the FPA's specialist staff.

# 1 Certification of compliance

The *Forest Practices Act 1985* requires a certificate of compliance to be lodged with the Forest Practices Authority (FPA) within 30 days of the completion of operations prescribed within a forest practices plan (FPP). These certificates must be completed by a Forest Practices Officer (FPO) and lodged by the person who applied for the plan. The FPA requires these reports to provide statements within one of the following categories:

- FPP fully complied with – this means that all provisions of the plan were fully complied with.
- FPP not fully complied with:
  - No further action required – this generally involves a change in the operation which does not result in any adverse long term environmental harm, such as a failure to undertake scheduled burning or reduction in the actual harvest area. Where appropriate, changes are noted and amendments are registered within the FPA’s FPP database.
  - Matter resolved through corrective action – this generally means that the FPO undertaking the final compliance check has detected non-compliance and has issued a notice under the Forest Practices Act to require corrective action to ensure compliance with the plan. Such actions may include improved regeneration treatments or stabilising disused access tracks. Follow up monitoring is undertaken by the FPO and a final report provided to the FPA.
  - Further action required – this generally involves a non-compliance issue that requires further investigation and action by the FPA and usually involves situations where adverse long term environmental harm has occurred or a corrective action is not being undertaken.

Since 1 July 2005, there has been a requirement for lodgement of compliance reports within 30 days of the completion of each discrete operational phase identified within a FPP. Discrete operational phases include activities such as road construction, harvesting and reforestation.

On 1 July 2008, the FPA established an electronic lodgement database which enabled discrete operational compliance reports to be lodged. This database allows users to identify reports that are outstanding, due, or due at a specified date, and should provide the necessary support to manage and report on lodgements.

Table 1.1.1 Certificates of compliance due for lodgement with the FPA as at 30 June 2010

Applicant	Certificates due	Certificates lodged		Compliance (for certificates lodged)							
				Fully complied		Not fully complied					
						No further action		Corrective action		Further investigation	
Forestry Tasmania	272	272	100%	245	90%	27	10%	0	0%	0	0%
Gunns	305	305	100%	281	92%	20	7%	0	0.0%	5	1.3%
Forest Enterprises	31	31	100%	26	84%	12	10%	2	6%	0	0%
Norske Skog	26	26	100%	24	92%	2	8%	0	0%	0	0%
Timberlands	36	36	100%	33	92%	2	6%	0	0%	1	2.7%
Great Southern	8	2	25%	2	25%	0	0%	0	0%	0	0%
Environmental Consultants International	7	7	100%	0	0%	7	100%	0	0%	0	0%
SFM	2	2	100%	0	0%	2	100%	0	0%	0	0%
Tasmanian Farm Timber	2	2	100%	1	50%	1	50%	0	0%	0	0%
Tasmanian Plantation P/L	1	0	0%	0	0%	0	0%	0	0%	0	0%
Other govt. org	2	2	100%	2	100%	0	0%	0	0%	0	0%
Small independent/private property	129	109	84%	59	54%	31	28%	3	3%	16	15%
<b>Total</b>	<b>821</b>	<b>794</b>	<b>96.7%</b>	<b>673</b>	<b>85%</b>	<b>95</b>	<b>12%</b>	<b>5</b>	<b>0.6%</b>	<b>21</b>	<b>2.6%</b>

The FPA is pleased to report that the substantially improved rate of lodgement of Certificates of Compliance achieved in 2008–09 has been sustained in 2009–10. This result has been achieved through increased enforcement by the FPA together with a commendable effort by FPOs and the support of forest managers. The FPA also reports that a very high rate of compliance was reported, with only 2.6 per cent of operations requiring further investigation by the FPA. As in previous years, the standard of compliance by small independent operators was lower than the standards achieved by the larger forest managers.

Where compliance reports are not lodged the FPA issues the applicant of the plan with a section 41(1) requiring that a compliance report is completed. Further notices and/or follow up

by an FPO on behalf of the FPA are initiated if a report is not lodged. All outstanding compliance reports are lodged.

## 2 Independent assessment of forest practices plans

The annual assessment program provides the instrument by which the FPA meets its statutory obligations under s. 4(E)(1)(b) of the Forest Practices Act which states that the FPA must, at least once each financial year, ‘*assess the implementation and effectiveness of a sample of forest practices plans.*’

To this end, the FPA conducts systematic assessments of FPPs to objectively obtain and assess evidence to evaluate performance against the requirements of the Forest Practices Act and the *Forest Practices Code*.

The annual assessment program has been developed in line with the Australian Standard AS/NZS ISO 19011:2003: *Guidelines for quality and/or environmental management systems auditing*. In line with ISO 19011, the annual assessment program is periodically reviewed to identify areas of improvement, which are then implemented. The FPA’s *Monitoring and Assessment Protocols* can be viewed at <[www.fpa.tas.gov.au/Monitoring](http://www.fpa.tas.gov.au/Monitoring)>.

The formal assessment process is based on a stratified random sample of certified FPPs selected from the FPA’s FPP database. The 2009–10 assessment program focused on certified FPPs at various stages of completion in the three years prior to 1 July 2009. Unlike previous years, the 2009–10 sample set predetermined targets for the number of FPPs assessed across the three land tenure categories. This was done to ensure a higher number of FPPs were sampled from independent private property tenure where performance has historically been lower than that achieved on State forest and company private property.

The assessment program assessed 142 FPPs, covering:

- all aspects of forest planning and operational practices, as defined under the Forest Practices Act
- a representative sample undertaken by companies and agencies, and individual forest owners or managers
- the standard of planning undertaken by FPOs who have certified plans during the nominated period. A total of 51 certifying FPOs were assessed during the program.

### 2.1 Method

Assessments determine the quality of planning and on-ground operational outcomes against specified prescriptions within each FPP, and the principles of the Forest Practices Act and the *Forest Practices Code*.

The 2009–10 assessments were based on 11 categories, incorporating 139 standards, which were rated using a question-based approach.

Assessment is based on a three-tiered, five-level scoring system (Appendix 1) which provides a performance rating score. The statewide performance rating is determined as the weighted

mean of the total sample. This score provides a measure of performance against the standards set by the Board of the FPA.

The board of the FPA has set a performance rating score of three as the minimum target that best represents sound practice and acceptable minimal operational standards required to meet the objectives of the Forest Practices Act and the *Forest Practices Code*. The highest achievable score is four, while a score below three indicate areas requiring improvement.

Inconsistencies with the Forest Practices Act and/or the *Forest Practices Code* identified through the assessment program may be independently investigated and subject to enforcement actions as detailed in section 3.

Four assessors were used during the 2009–10 program.

- Mr Mick Schofield, the FPA's Compliance Manager, has over 10 years' experience in forestry and is a registered Lead Auditor Environmental Management Systems with RABQSA<sup>1</sup> International. Mr Schofield had primary responsibility for ensuring the efficient and effective conduct and conclusion of the annual program, in accordance with the assessment scope and plan as defined under protocols and instructions.
- Mr Steve Manson is an independent forestry consultant employed by GHD Pty Ltd with over 40 years' experience in forestry and forest assessment in Tasmania and internationally and has been trained as an Environmental Auditor under the RABQSA training program.
- Mr Tony O'Malley is an independent forestry consultant with over 30 years' experience in forestry and forest assessment in Tasmania.
- Mr David Tucker is an independent forestry consultant with over 40 years' experience in forestry and forest assessment in Tasmania.

The Chief Forest Practices Officer, Graham Wilkinson, has overall responsibility for the assessment program. Mr Wilkinson is an Accredited Environmental Auditor under the RABQSA scheme.

## 2.2 Summary of the results and discussion on the annual assessment program

The 2009–10 program found that continued improvement in planning and operational performance is being achieved in many areas. On average the outcomes indicated that forest planning and operational practices for all categories across all tenures met or exceeded the minimum performance rating of three (sound).

A summary of the various facets of forest operations assessed is provided in Table 2.2.1. Full results, by questions, are detailed in Appendix 1.

Summaries of the program outcomes are calculated as the weighted mean of the question's performance rating within each category and are provided in Figure 2.2.1 (mean performance rating for all assessments by category) and Figure 2.2.2 (mean performance rating for all assessments by category and tenure). A total of 51 certifying FPOs were assessed during the program.

<sup>1</sup> RABQSA provides internationally recognised certification for management system auditors.

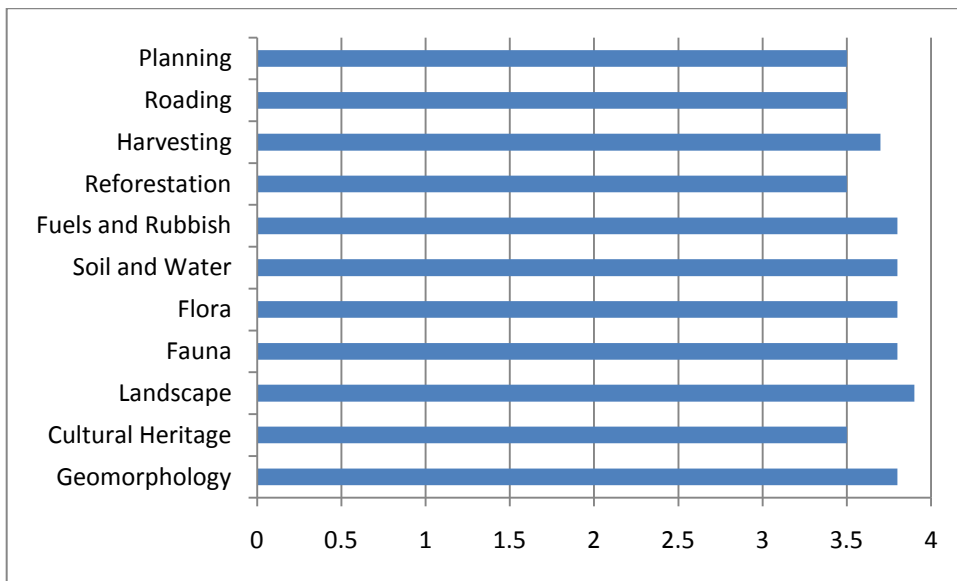


Figure 2.2.1 Mean performance rating for all assessments by category, 2009–10

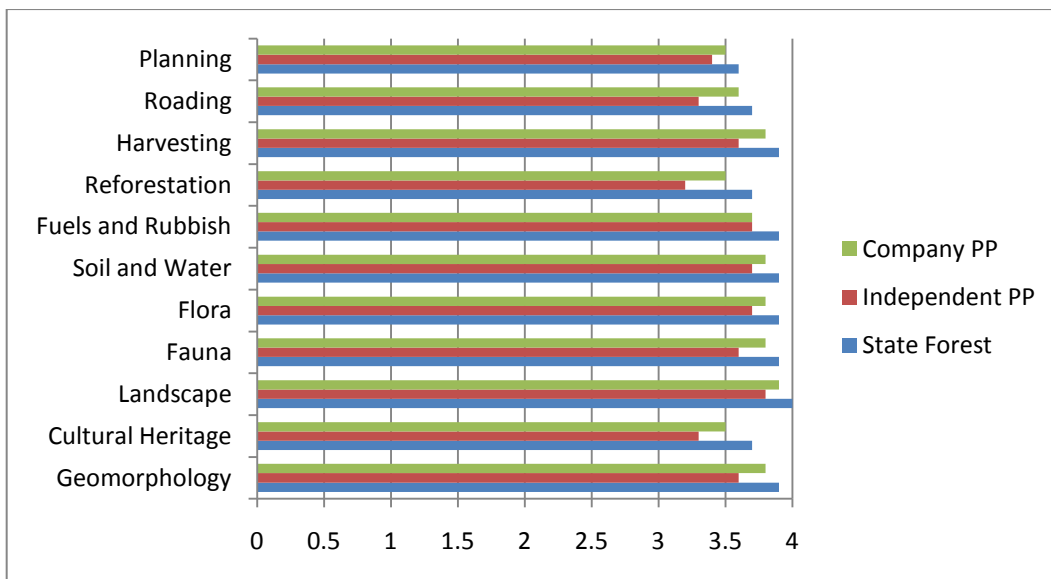


Figure 2.2.2 Mean performance rating for all assessments by category and tenure, 2009–10

Table 2.2.1 Coverage of the 2009–10 full assessments

	State forest	Industrial forest companies	Independent forest owners and other Crown land	Total
No. of assessments	37	53	52	142
No. of certifying FPOs assessed	16	26	18	51
<b>Operation</b>				
Roading	17	12	13	42
Harvesting	37	42	50	129
Reforestation	34	47	34	115
Quarry	0	1	0	1
<b>Forest type</b>				
Softwood plantation	0	15	6	22
Hardwood plantation	4	15	7	26
Native forest – clearfelled	5	2	13	20
Native forest – partial logging	5	1	11	17
<b>Harvesting</b>				
Conventional	32	38	48	118
Cable	4	3	0	7
<b>Reforestation</b>				
Softwood plantation	0	10	1	11
Hardwood plantation	7	33	19	59
Native forest	28	8	20	56
Conversion – non-forest	2	0	18	20

## 2.3 Comments on standards achieved

### *Individual performance ratings by tenure*

A total of 7687 individual forest planning and operational questions were assessed across 142 FPPs. An analysis of the performance rating for each question by tenure (Table 2.3.1) indicates that, on average, 90 per cent received a score of three or above:

- 93.4 per cent on State forests
- 91.7 per cent for industrial forest companies
- 83.7 per cent for independent forest owners.

For the remainder of this report, these categories are referred to as State forest, industrial and independent.



Table 2.3.1 Percentage of performance rating recorded for all individual questions scored for each operation by tenure

Tenure/rating	1 (Un-acceptable)	2 (Less than sound)	3 (Sound)	3.5 (Above sound)	4 (High)
State forest	0.5%	6.0%	5.8%	4.8%	82.8%
Industrial	0.7%	7.6%	12.3%	6.3%	73.1%
Independent	2.6%	13.9%	14.6%	8.3%	60.6%

Table 2.3.2 Percentage of performance rating recorded for all individual questions scored for each operation by applicant (plans in brackets)

Applicant/rating	1 (Un-acceptable)	2 (Less than sound)	3 (Sound)	3.5 (Above sound)	4 (High)
FEA (8)	0.3%	8.3%	18.0%	4.5%	68.9%
State forest (37)	0.5%	6.0%	5.8%	4.8%	82.8%
Great Southern (8)	0.7%	8.7%	20.1%	4.4%	66.0%
Gunns (21)	1.2%	6.9%	11.1%	7.8%	73.0%
Norske Skog (8)	0.6%	5.8%	6.2%	7.2%	80.2%
SFM (4)	1.1%	7.2%	12.3%	10.5%	69.0%
Timberlands (8)	0.2%	11.4%	9.1%	4.9%	74.4%
Independent (48)	2.6%	13.9%	14.6%	8.3%	60.6%

## 2.4 Summary of assessment

Under s. 4E(1)(b) of the Forest Practices Act, the FPA reports that the implementation and effectiveness of FPPs on State forest and on private land that is managed by large companies was generally above the nominated standards for the majority of factors being assessed. Aspects that were managed to a very high standard include:

- planning and conduct of harvesting operations
- assessment of natural and cultural heritage values.

Areas requiring improved performance include:

- FPPs descriptive rather than prescriptive
- Clarifying when a post operational cultural survey is required, particularly on independent private property.

## 3 Enforcement

### 3.1 Investigations

The FPA investigates all complaints relating to alleged breaches of the Forest Practices Act, the *Forest Practices Code* or poor practices. Investigations are undertaken directly by FPA compliance staff, or by FPOs who provide reports which are reviewed by the CFPO. Reports and recommendations are reviewed by the CFPO, and when appropriate by the board of the FPA, against protocols determined by the board ([www.fpa.tas.gov.au/monitoring](http://www.fpa.tas.gov.au/monitoring)). Investigations may also be undertaken in co-operation with other government agencies.

Formal legal actions arising as a consequence of serious breaches identified during investigations undertaken by the FPA are progressed in consultation with the Tasmania Police.

The FPA dealt with 183 investigations in 2009–10. This included 117 new investigations and 66 matters previously commenced. Of the new investigations, 29 were conducted in State forest, 16 on company freehold and 72 on independent private property.

Ninety eight investigations were finalised; the breaches related to operating without a plan (12); boundary incursions (two); streamside reserves (nine); natural and cultural values (six); and other matters, FPP prescriptions and the *Forest Practices Code* (26). The remaining 43 were not breaches of the Act. Outcomes of finalised investigations are detailed in Table 3.1.1.

Table 3.1.1 Outcomes of completed investigations

Outcome	2008–09		2009–10	
	Count	Percentage	Count	Percentage
No breach	24	21%	43	24%
Minor breach, no serious environmental harm	4	4%	12	7%
Notice issued to require corrective action or formal warning given	23	21%	26	14%
Penalty imposed	5	4%	9	5%
Matters resolved by the courts	0	0	0	0
Apparent breach but insufficient evidence or out of time to proceed with legal action	4	4%	8	4%
<b>Total completed investigations</b>	<b>60</b>	<b>54%</b>	<b>98</b>	<b>54%</b>
Investigations in progress	52	46%	85	46%
<b>Total investigations (completed and in progress)</b>	<b>112</b>		<b>183</b>	

## 3.2 Notices and prosecutions

The forest practices system is designed to achieve high environmental standards, with an emphasis on planning, training and education. Where issues arise, the FPA prefers that they will be dealt with through early detection and corrective action. Corrective action may involve remedial action, as well as reviewing and improving systems to ensure that similar issues do not arise in the future.

Education is considered critical in ensuring individuals and companies or agencies understand their responsibilities under the Forest Practices Act, as well as having the capacity to meet their duty of care obligations. Consequently, where issues arise through ignorance, the FPA prefers to impose outcomes which address the issue and educate the responsible person to prevent similar issues arising in the future.

Where issues arise that generally reflect inadequate systems, or insufficient care or repeat offences, penalties are appropriate to reinforce the due diligence that all parties must apply when undertaking activities identified under the Forest Practices Act.

Legal enforcement may be taken in several ways:

- FPOs may give verbal or written notification (under s. 41(1)) in order to inform persons that they must comply with the Forest Practices Act or an FPP. Where this notice is not complied with, an FPO may issue a second notice (under s. 41(2)) to direct the person to cease operations and carry out any work required to ameliorate any damage incurred as a result of the breach. Failure to comply with a s. 41(2) notice is considered a breach under the Forest Practices Act and can lead to prosecution.
- The FPA may prosecute for failure to have operations covered by an FPP (s.17), for failing to comply with an FPP (s. 21) or for failing to lodge a certificate of compliance (s. 25A).
- The FPA may impose fines as an alternative to prosecution (s. 47B).

Table 3.2.1 Legal enforcement 2005–06 to 2009–10

	2005–06	2006–07	2007–08	2008–09	2009–10
Formal notices issued by FPOs*	20	21	19	23	21
Fines imposed	11	3	7	5	9
Complaints laid	1	2	1	0	2

\* refers to written notices and does not include verbal notices or directions given by a FPO under s. 41 of the Forest Practices Act.

The FPA imposed nine fines in 2009–10 which totalled \$34 500. Fines imposed under s. 47B of the Forest Practices Act in 2009–10 are detailed below:

- Snowy Mountain P/L paid a fine of \$3000 for clearing four hectares of vulnerable land without an FPP.

- Contractor P Rouse paid a fine of \$500 for harvesting 19 trees outside of the boundary of an FPP.
- Gunns (Tamar) paid a fine of \$500 for an incorrect buffer width on a stream.
- Norske Skog paid a fine of \$1500 for clearing roadside trees contrary to the provisions of an FPP.
- Tasmanian Mines Ltd paid a fine of \$3000 for clearing nine hectares of forest without an FPP.
- Forestry Tasmania paid a fine of \$1500 for excessive crossings of an old water race within an area being harvested under an FPP.
- Contractor D Templar was fined a total of \$12 000 for offences relating to the cultivation of land contrary to the provisions of two FPPs.
- Contractor A Barker was fined \$2500 for felling blue gum trees contrary to the provisions of an FPP.
- FEA was fined \$10 000 for clearing and planting part of an area set aside for a buffer around an eagle's nest in an FPP but FEA went into receivership before this fine was paid.
- In addition to fines, the FPA took action to require substantial rehabilitation measures in three cases:
  - A landowner was required to re-locate a road and restore a streamside reserve at a cost of over \$40 000.
  - A landowner was required to reforest four hectares of land that had been cleared without an FPP.
  - A company was required to enter into a vegetation management agreement to reserve approximately 100 hectares of forest as an offset for the clearing of 21 hectares of forest without an FPP.

Two matters were referred for prosecution:

- A complaint was laid against landowner Noel Jackman for clearing 43 hectares of vulnerable land near St Helens without an FPP.
- A complaint was laid against landowner John Davis for clearing 31 hectares of forest on King Island without an FPP.

## Appendix 1: Results of the 2009–10 assessment of forest practices plans

The scoring system used for all questions in the assessment of forest practices plans

Performance rating	Description	Score
High	Fully addressed all judgment criteria and achieved a very good result without causing a noticeable or likely adverse impact.	4
	Above sound – scored but not defined	3.5
Sound	Satisfactorily addressed the judgment criteria and achieved an acceptable result without causing an actual or likely significant adverse impact	3
	Less than sound – scored but not defined	2
Unacceptable	Not adequately addressed judgment criteria or achieved an unacceptable result and/or has or is likely to result in serious adverse impact.	1
Not auditable	The condition/situation does not occur e.g. high erodibility Operations have as yet not commenced Insufficient or no objective evidence to make a judgment	NA/0

## Planning

		Total for all tenure			Company PP			Independent PP			State forest		
		No.	Mean	CR	No.	Mean	CR	No.	Mean	CR	No.	Mean	CR
1	Was a complete copy of FPP available?	142	3.7	AS	53	3.8	AS	52	3.6	AS	37	3.7	AS
2	Was the FPP in a sound and secure filing system?	141	3.7	AS	52	3.7	AS	52	3.6	AS	37	3.7	AS
3	Was FPP, and variations fully signed and dated	139	3.6	AS	53	3.6	AS	49	3.4	S	37	3.7	AS
4	Is FPP/variations completely, clearly and legibly documented?	140	3.0	S	53	3.1	S	50	2.9	BS	37	3.1	S
5	Is the FPP and variations in accordance with the code?	135	3.4	S	48	3.6	AS	50	3.2	S	37	3.6	AS
6	Were all variations documented?	45	3.4	S	17	3.5	AS	14	3.2	S	14	3.6	AS
7	Was State and Local Gov't consulted, as required?	85	3.6	AS	29	3.7	AS	34	3.3	S	22	3.8	AS
8	Was Local Gov't notified of the operational start date?	129	3.5	AS	47	3.5	S	50	3.4	S	32	3.7	AS
9	Have all adjacent landholders been identified and notified?	111	3.3	S	41	3.3	S	49	3.2	S	21	3.6	AS
10	FPP indicate that a fire management plan was prepared?	106	3.3	S	45	3.4	S	26	3.3	S	35	3.4	S
11	Has planning identified intakes, aquaculture and threatened sps?	117	3.8	AS	42	3.8	AS	41	3.7	AS	34	3.9	AS
<b>Weighted Mean</b>			<b>3.5</b>	<b>AS</b>		<b>3.5</b>	<b>AS</b>		<b>3.4</b>	<b>S</b>		<b>3.6</b>	<b>AS</b>
<b>Weighted Std</b>			<b>0.2</b>			<b>0.2</b>			<b>0.2</b>			<b>0.2</b>	

### Notes

No. is the sample for the question i.e. the number of FPPs where the question was applicable. CR is the compliance rating, which can be H (high), AS (above sound), S (sound), BS (below sound) or U (unacceptable) as defined in the table at the beginning of this appendix.

## Roading

Roading		Total for all tenure			Company PP			Independent PP			State forest		
		No.	Mean	CR	No.	Mean	CR	No.	Mean	CR	No.	Mean	CR
12	Rd location minimised soil erosion & stream sedimentation?	80	3.7	AS	32	3.7	AS	22	3.5	AS	26	4.0	H
13	Has valley bottom roading minimised potential stream sediment?	6	3.7	AS	4	3.5	AS	2	4.0	H	0		
14	Has roading avoided high or very highly erodible soils ?	18	3.5	AS	6	3.8	AS	5	3.0	S	7	3.6	AS
15	Has the road standard proven adequate to the haulage task ?	77	3.7	AS	28	3.7	AS	26	3.5	AS	23	3.9	AS
16	Are table drains properly constructed to carry likely flows ?	65	3.5	AS	24	3.5	AS	18	3.1	S	23	3.7	AS
17	Is culvert spacing and location adequate?	60	3.4	S	23	3.6	AS	15	3.1	S	22	3.5	AS
18	Have culverts been effectively designed and constructed?	50	3.5	AS	18	3.8	AS	11	2.7	BS	21	3.7	AS
19	Has the road been adequately drained?	62	3.4	S	24	3.5	AS	16	3.0	S	22	3.6	AS
20	Have access tracks been drained and stabilised after use?	45	3.3	S	16	3.3	S	21	3.2	S	8	3.6	AS
21	Are cuts and fills balanced and/or spoil disposed of properly?	25	3.9	AS	6	4.0	H	4	3.5	AS	15	3.9	AS
22	Are batter slopes stable?	28	3.7	AS	6	3.9	AS	6	3.4	S	16	3.8	AS
23	Have potential instability been recognised and managed?	5	3.1	S	2	4.0	H	1	2.5	BS	2	2.5	BS
24	Have code steep country prescriptions been implemented?	5	3.4	S	1	4.0	H	1	2.0	BS	3	3.7	AS
25	Has clearing width and top soil stripping been minimized ?	27	3.9	AS	6	4.0	H	6	3.8	AS	15	3.9	AS
26	Have new or upgraded stream crossings been well located ?	14	3.8	AS	5	3.4	S	3	4.0	H	6	4.0	H
27	Have new or upgraded stream crossings been well designed?	18	3.7	AS	5	3.3	S	5	3.6	AS	8	4.0	H
28	Have new/upgraded stream crossings been well constructed?	14	3.6	AS	5	3.3	S	3	3.3	S	6	4.0	H
29	Has drainage been diverted within 50 m of streams?	25	3.0	S	11	2.7	BS	2	3.8	AS	12	3.2	S
30	Have temporary crossings Cl 2 & 3 been removed and drained?	4	3.5	AS	2	3.0	S	1	4.0	H	1	4.0	H

Roading		Total for all tenure			Company PP			Independent PP			State forest		
		No.	Mean	CR	No.	Mean	CR	No.	Mean	CR	No.	Mean	CR
31	Have permanent all weather roads been suitably surfaced?	60	3.8	AS	21	3.8	AS	14	3.5	AS	25	4.0	H
32	Have nonconforming or hazardous Rds been closed or rehab?	8	2.4	BS	3	2.3	BS	3	1.8	U	2	3.3	S
33	Does the condition of all retained roads minimise erosion?	50	3.6	AS	19	3.6	AS	12	3.3	S	19	3.7	AS
34	Does the condition of roads, of no further use, min. erosion?	7	3.5	AS	0			2	3.0	S	5	3.7	AS
35	Have quarries and pits been well located, mged and rehab'ed?	6	3.7	AS	2	4.0	H	2	3.0	S	2	4.0	H
36	Has an effective maintenance system been applied?	76	3.4	S	27	3.5	AS	21	3.2	S	28	3.5	AS
37	Has the FPP/variations/code been followed?	82	3.4	S	31	3.6	AS	28	3.2	S	23	3.5	AS
<b>Weighted Mean</b>			<b>3.5</b>	<b>AS</b>		<b>3.6</b>	<b>AS</b>		<b>3.3</b>	<b>S</b>		<b>3.7</b>	<b>AS</b>
<b>Weighted Std</b>			<b>0.2</b>			<b>0.3</b>			<b>0.3</b>			<b>0.2</b>	

Notes

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## Harvesting

Harvesting		Total for all tenure			Company PP			Independent PP			State forest		
		No.	Mean	CR	No.	Mean	CR	No.	Mean	CR	No.	Mean	CR
38	Is the extraction design consistent with the Code?	119	3.9	AS	41	3.8	AS	43	3.8	AS	35	4.0	H
39	Has appropriate harvesting equipment been used?	91	3.8	AS	30	3.9	AS	33	3.7	AS	28	3.8	AS
40	Has the harvesting boundary been clearly marked?	118	3.5	AS	43	3.6	AS	41	3.2	S	34	3.8	AS
41	Has harvesting been confined within the boundary?	83	3.8	AS	27	3.9	AS	34	3.7	AS	22	3.9	AS
42	Has all debris been retained within the harvesting boundary?	73	3.9	AS	24	3.9	AS	27	3.8	AS	22	4.0	H
43	Has snigging complied with wet weather limitations ?	16	3.2	S	5	3.7	AS	6	2.8	BS	5	3.2	S
44	Has snigging avoided the creation of by pass tracks?	30	3.9	AS	5	4.0	H	14	3.9	AS	11	4.0	H
45	Has cartage complied with wet weather limitations?	2	2.0	BS	0			2	2.0	BS	0		
46	Does snig track location and construction facilitate drainage ?	47	3.8	AS	17	3.7	AS	16	3.8	AS	14	3.9	AS
47	Have STs avoided crossing Class 1 and 2 watercourses ?	43	4.0	H	19	3.9	AS	10	4.0	H	14	4.0	H
48	Have CI 3 & 4 ST crossings been minimised, & well located?	60	3.7	AS	31	3.7	AS	13	3.4	S	16	3.8	AS
49	Have wet major STs, taken steps to minimise avoidable impact?	21	3.6	AS	5	3.8	AS	7	3.4	S	9	3.6	AS
50	Has snigging avoided serious avoidable impact?	68	3.8	AS	21	3.9	AS	27	3.7	AS	20	3.9	AS
51	Has snigging along drainage lines been avoided ?	26	3.9	AS	5	3.9	AS	11	3.9	AS	10	4.0	H
52	In thinning ops, has ST location minimised damage to trees ?	11	3.7	AS	6	3.9	AS	3	3.3	S	2	3.8	AS
53	Have snig tracks been progressively drained ? .	20	3.3	S	6	3.9	AS	8	2.5	BS	6	3.8	AS
54	Does snig track drainage comply with code specifications?	47	3.6	AS	14	3.8	AS	17	3.2	S	16	3.9	AS
55	Has snig track drainage been effective?	47	3.8	AS	14	3.9	AS	17	3.7	AS	16	3.9	AS
56	Has snig track rutting been stabilized?	16	3.8	AS	5	3.8	AS	2	3.5	AS	9	3.8	AS

Harvesting		Total for all tenure			Company PP			Independent PP			State forest		
		No.	Mean	CR	No.	Mean	CR	No.	Mean	CR	No.	Mean	CR
57	Have snig tracks crossings been removed and stabilised?	20	3.6	AS	12	3.9	AS	4	2.6	BS	4	3.9	AS
58	Are landings appropriately located?	111	3.8	AS	40	3.8	AS	39	3.7	AS	32	3.9	AS
59	Are landings appropriately sized?	71	3.8	AS	23	3.8	AS	29	3.8	AS	19	3.8	AS
60	Have landings been properly constructed?	51	3.9	AS	15	3.9	AS	18	3.8	AS	18	3.9	AS
61	Have landings been properly managed and stabilised?	72	3.6	AS	24	3.9	AS	27	3.3	S	21	3.8	AS
62	Is the width of the stream side reserves or /MEZ correct?	65	3.7	AS	19	3.4	S	20	3.6	AS	26	3.9	AS
63	Have CI 1,2,&3 SRs & required, CI 4 MEZ, been clearly taped?	75	3.5	AS	20	3.5	AS	28	3.1	S	27	3.8	AS
64	Have required cl 4 streams been upgraded to new guidelines?	32	3.7	AS	7	3.7	AS	14	3.5	AS	11	4.0	H
65	Has felling avoided unreasonable damage to SSRs and MEZs?	54	3.8	AS	15	4.0	H	19	3.6	AS	20	4.0	H
66	Has machinery been excluded from SSRs and MEZs ?	52	3.7	AS	16	3.8	AS	17	3.3	S	19	3.9	AS
67	Has harvesting slash been kept out of SSRs or Class 4 MEZs ?	53	3.8	AS	15	3.9	AS	19	3.6	AS	19	4.0	H
68	Has felling in SSRs and MEZs complied with the Code ?	9	3.9	AS	4	3.8	AS	2	4.0	H	3	4.0	H
69	Has harvesting in plantation SSRs complied with Code?	25	4.0	H	16	3.9	AS	6	4.0	H	3	4.0	H
70	Have cables been pulled thru CI 1,2,3 SSR without damage?	0			0			0			0		
71	Have potential cable erosion channels been stabilized?	4	3.1	S	2	3.3	S	0			2	3.0	S
72	Has the FPP and variations been followed?	85	3.5	AS	27	3.5	AS	34	3.2	S	24	3.8	AS
	<b>Weighted mean</b>		<b>3.7</b>	<b>AS</b>		<b>3.8</b>	<b>AS</b>		<b>3.6</b>	<b>AS</b>		<b>3.9</b>	<b>AS</b>
	<b>Weighted std</b>		<b>0.2</b>			<b>0.1</b>			<b>0.3</b>			<b>0.1</b>	

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## Reforestation

		Total for all tenure			Company PP			Independent PP			State forest		
		No.	Mean	CR	No.	Mean	CR	No.	Mean	CR	No.	Mean	CR
73	Has the FPP and variations been followed?	48	3.3	S	13	3.5	AS	18	2.8	BS	17	3.7	AS
74	Has an appropriate reforestation technique been prescribed?	59	3.6	AS	14	3.8	AS	18	3.1	S	27	3.8	AS
75	Has fuel reduction burns, been effectively carried out?	17	3.6	AS	4	4.0	H	0			13	3.4	S
76	Have streamside reserves been protected from fire?	16	4.0	H	3	3.8	AS	2	4.0	H	11	4.0	H
77	Have class 4 stream MEZs been protected from fire?	12	3.8	AS	1	4.0	H	1	4.0	H	10	3.8	AS
78	Has appropriate seed been selected for native forest regen.?	36	3.5	AS	7	3.6	AS	7	3.4	S	22	3.4	S
79	Is an effective stocking likely to be achieved?	50	3.3	S	11	3.4	S	15	3.0	S	24	3.5	AS
80	Has native forest regeneration been protected from grazing & browsing damage?	39	3.4	S	10	3.3	S	12	2.8	BS	17	4.0	H
81	Has burning been effectively carried out and protected SRs?	33	3.6	AS	22	3.7	AS	6	3.2	S	5	4.0	H
82	Has cultivation minimized the risk of soil erosion?	27	3.8	AS	17	3.7	AS	4	3.8	AS	6	4.0	H
83	Cultivation excluded within 2m of drainage depressions?	41	3.7	AS	25	3.8	AS	11	3.6	AS	5	3.6	AS
84	Have class 1,2 and 3 streams and their SRs been protected?	40	3.5	AS	30	3.4	S	6	3.8	AS	4	3.6	AS
85	Have class 4 streams and their 10m MEZs been protected?	54	3.7	AS	36	3.7	AS	12	3.8	AS	6	3.8	AS
86	Have the specified stocking standard been achieved?	48	3.4	S	31	3.4	S	10	3.0	S	7	3.9	AS
87	Have plantation trees been protected from grazing/browsing damage?	43	3.5	AS	26	3.4	S	9	3.2	S	8	3.9	AS
88	Does tracks & firebreaks location protect water & visual values?	79	3.4	S	34	3.3	S	29	3.2	S	16	3.9	AS
	<b>Weighted mean</b>		<b>3.5</b>	<b>AS</b>		<b>3.5</b>	<b>AS</b>		<b>3.2</b>	<b>S</b>		<b>3.7</b>	<b>AS</b>
	<b>Weighted std</b>		<b>0.2</b>			<b>0.2</b>			<b>0.3</b>			<b>0.2</b>	

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## Fuels & Rubbish

		Total for all tenure			Company PP			Independent PP			State forest		
		No.	Mean	CR	No.	Mean	CR	No.	Mean	CR	No.	Mean	CR
89	Have fuels, oils, greases and chemicals been well managed?	36	4.0	H	9	4.0	H	14	4.0	H	13	4.0	H
90	Has all rubbish been removed?	103	3.7	AS	35	3.6	AS	42	3.7	AS	26	3.9	AS
<b>Weighted Mean</b>			3.8	AS		3.7	AS		3.7	AS		3.9	AS
<b>Weighted Std</b>			0.1			0.2			0.2			0.0	

## Soils & Water

		Total for all tenure			Company PP			Independent PP			State forest		
		No.	Mean	CR	No.	Mean	CR	No.	Mean	CR	No.	Mean	CR
91	Has the soil erodibility rating been correctly determined?	136	3.8	AS	49	3.8	AS	50	3.7	AS	37	4.0	H
92	Has landslip potential been correctly determined?	105	3.8	AS	36	3.7	AS	39	3.8	AS	30	3.8	AS
93	Has burning intensity been appropriate for the soil?	40	4.0	H	11	3.9	AS	10	4.0	H	19	4.0	H
94	High/v high erodibility soils or >landslide threshold referred?	26	3.5	AS	18	3.7	AS	4	3.0	S	4	3.5	AS
95	Evidence of post-operational accelerated soil erosion?	86	3.7	AS	31	3.6	AS	31	3.6	AS	24	3.8	AS
96	Have all cl 1,2 3and 4 streams been identified & classified?	125	3.7	AS	50	3.8	AS	41	3.6	AS	34	3.9	AS
97	Evidence of significant post-harvest stream erosion?	78	3.9	AS	34	3.9	AS	23	3.9	AS	21	4.0	H
<b>Weighted mean</b>			3.8	AS		3.8	AS		3.7	AS		3.9	AS
<b>Weighted std</b>			0.1			0.1			0.2			0.1	

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## Flora

		Total for all tenure			Company PP			Independent PP			State forest		
		No.	Mean	CR	No.	Mean	CR	No.	Mean	CR	No.	Mean	CR
98	FPP evaluation correctly completed for plant communities?	138	3.9	AS	53	4.0	H	50	3.7	AS	35	3.9	AS
99	Has the evaluation correctly completed for priority plant species?	109	3.8	AS	38	3.9	AS	39	3.7	AS	32	3.8	AS
100	Has the evaluation completed for sites of potential significance?	105	3.9	AS	43	3.9	AS	34	3.9	AS	28	4.0	H
101	FPP evaluation completed for effects on Reserves & SMZs?	70	3.8	AS	26	3.8	AS	24	3.7	AS	20	4.0	H
102	Have flora values been referred to FPA Botanist as required?	87	3.9	AS	27	3.9	AS	35	4.0	H	25	4.0	H
103	Have important flora values been taken into account in FPP?	93	3.7	AS	32	3.6	AS	33	3.7	AS	28	3.9	AS
104	Have the botanical requirements of the FPP been followed?	101	3.4	S	35	3.3	S	36	3.4	S	30	3.7	AS
	<b>Weighted mean</b>		<b>3.8</b>	<b>AS</b>		<b>3.8</b>	<b>AS</b>		<b>3.7</b>	<b>AS</b>		<b>3.9</b>	<b>AS</b>
	<b>Weighted std</b>		<b>0.2</b>			<b>0.2</b>			<b>0.2</b>			<b>0.1</b>	

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## Fauna

		Total for all tenure			Company PP			Independent PP			State forest		
		No.	Mean	CR	No.	Mean	CR	No.	Mean	CR	No.	Mean	CR
105	Was all the required information supplied in the evaluation?	139	3.8	AS	52	3.9	AS	51	3.7	AS	36	3.9	AS
106	Were known localities & habitat for threatened sp. identified?	121	3.8	AS	41	3.9	AS	45	3.7	AS	35	3.9	AS
107	Was FPA advice sort on threatened species, if required?	116	3.9	AS	42	3.9	AS	42	3.8	AS	32	3.9	AS
108	Were prescriptions for threatened species included in FPP ?	119	3.7	AS	45	3.8	AS	39	3.4	S	35	3.7	AS
109	If present, were WHS identified and WHS prescriptions incorporated?	25	3.7	AS	5	3.5	AS	1	3.0	S	19	3.7	AS
110	If present, were faunal SMZs identified & prescriptions included in FPP?	8	3.8	AS	3	4.0	H	3	3.3	S	2	4.0	H
111	Was the requirement for WHC's correctly assessed?	105	3.8	AS	34	3.9	AS	39	3.5	AS	32	3.9	AS
112	Have FPP threatened fauna prescriptions been implemented?	76	3.6	AS	27	3.6	AS	26	3.4	S	23	3.9	AS
113	Have WHS prescriptions in the FPP been implemented?	13	3.8	AS	1	4.0	H	0			12	3.8	AS
114	Were the SMZ prescriptions in the FPP implemented?	2	4.0	H	1	4.0	H	0			1	4.0	H
115	Were the WHC prescriptions in the FPP implemented?	42	3.6	AS	9	3.8	AS	18	3.3	S	15	3.8	AS
	<b>Weighted mean</b>		<b>3.8</b>	<b>AS</b>		<b>3.8</b>	<b>AS</b>		<b>3.6</b>	<b>AS</b>		<b>3.9</b>	<b>AS</b>
	<b>Weighted std</b>		<b>0.1</b>			<b>0.1</b>			<b>0.2</b>			<b>0.1</b>	

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## Landscape

		Total for all tenure			Company PP			Independent PP			State forest		
		No.	Mean	CR	No.	Mean	CR	No.	Mean	CR	No.	Mean	CR
116	Was the LMO assessed correctly?	138	3.9	AS	52	3.9	AS	50	3.7	AS	36	4.0	H
117	Have all viewing issues been identified.?	129	3.9	AS	50	3.9	AS	47	3.9	AS	32	4.0	H
118	Was a notification sent to the FPA where required?	20	3.3	S	9	3.5	S	6	3.0	S	5	3.6	AS
119	Clearfall Harvesting	27	3.9	AS	9	3.9	AS	8	3.8	AS	10	4.0	H
120	Plantation development	19	4.0	H	11	4.0	H	5	4.0	H	3	4.0	H
121	Partial harvesting	17	4.0	H	6	4.0	H	7	3.9	AS	4	4.0	H
122	Roads, Snig Tracks, Landings, firebreaks and Quarries	17	3.9	AS	7	4.0	H	2	3.0	S	8	4.0	H
123	Skylines	5	4.0	H	3	4.0	H	0			2	4.0	H
124	Steep areas	5	4.0	H	1	4.0	H	0			4	4.0	H
125	Were the FPP prescriptions applied correctly?	36	3.8	AS	13	3.8	AS	12	3.5	AS	11	4.0	H
126	Was the Recommended LMO achieved?	90	3.9	AS	36	4.0	H	32	3.9	AS	22	4.0	H
	<b>Weighted mean</b>		<b>3.9</b>	<b>AS</b>		<b>3.9</b>	<b>AS</b>		<b>3.8</b>	<b>AS</b>		<b>4.0</b>	<b>H</b>
	<b>Weighted std</b>		<b>0.1</b>			<b>0.1</b>			<b>0.2</b>			<b>0.1</b>	

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## Cultural Heritage

		Total for all tenure			Company PP			Independent PP			State forest		
		No.	Mean	CR	No.	Mean	CR	No.	Mean	CR	No.	Mean	CR
127	Has MDC zoning been complied with on State Forest?	48	3.8	AS	11	3.5	AS	2	4.0	H	35	3.8	AS
128	Has Conserve been consulted and site info. identified?	136	3.3	S	52	3.5	AS	48	3.1	S	36	3.3	S
129	Has Aboriginal cultural heritage sensitivity been identified?	125	3.7	AS	49	3.7	AS	40	3.6	AS	36	3.7	AS
130	Was archaeologist's advice sought where necessary?	47	3.6	AS	22	3.7	AS	10	3.3	S	15	3.9	AS
131	Have cultural heritage prescriptions been followed?	54	3.5	AS	24	3.6	AS	10	2.9	BS	20	3.7	AS
132	If a post op survey recommended, was it completed?	59	3.3	S	31	3.3	S	11	3.0	S	17	3.7	AS
133	Have site recording & mgt been in accordance with Act?	4	4.0	H	2	4.0	H	1	4.0	H	1	4.0	H
	<b>Weighted mean</b>		<b>3.5</b>	<b>AS</b>		<b>3.6</b>	<b>AS</b>		<b>3.3</b>	<b>S</b>		<b>3.7</b>	<b>AS</b>
	<b>Weighted std</b>		<b>0.2</b>			<b>0.1</b>			<b>0.3</b>			<b>0.2</b>	



## Geomorphology

		Total for all tenure			Company PP			Independent PP			State forest		
		No.	Mean	CR	No.	Mean	CR	No.	Mean	CR	No.	Mean	CR
134	Has Geoscience evaluation been correctly completed?	135	3.8	AS	51	3.8	AS	48	3.8	AS	36	3.9	AS
135	Have Vulnerable Karst Soils been correctly identified ?	27	3.6	AS	12	3.8	AS	9	2.9	BS	6	4.0	H
136	Has the FPA geoscientist been consulted as required?	31	3.7	AS	8	3.9	AS	8	3.4	S	15	3.9	AS
137	Have appropriate prescriptions been included in the FPP?	40	3.9	AS	14	3.9	AS	9	3.9	AS	17	3.8	AS
138	Have geomorphology prescriptions been implemented?	28	3.8	AS	11	3.9	AS	4	3.5	AS	13	3.7	AS
139	In a karst area, have the FPC provisions been followed?	8	3.9	AS	4	3.8	AS	1	4.0	H	3	4.0	H
	<b>Weighted mean</b>		<b>3.8</b>	<b>AS</b>		<b>3.8</b>	<b>AS</b>		<b>3.6</b>	<b>AS</b>		<b>3.9</b>	<b>AS</b>
	<b>Weighted std</b>		<b>0.1</b>			<b>0.1</b>			<b>0.3</b>			<b>0.1</b>	

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## Document Control Log Table

### Document Summary Information

<b>Document name</b>	Forest practices compliance and assessment report 2009–10
<b>Version</b>	1.1
<b>Trim record</b>	2010/114099
<b>Owner</b>	Mick Schofield
<b>Author(s)</b>	Mick Schofield
<b>Release date</b>	October 2010
<b>Release approved by</b>	CFPO
<b>Release status</b>	Public document

### Version Control

Version	Date	Author(s)	Summary of changes
1.0	October 2010	Mick Schofield	
1.1	January 2011	Chris Grove	Added version number, Trim record, and doc control tables.

### Stages required for release outside FPA

Category of advice		C
Stages	Required/not required	Completed (date)
Specialist	Not required	
Line Manager	Not required	
Peer/FPO/stakeholder review	Not required	
CFPO	Required	October 2010
FPAC	Not required	
Board	Not required	October 2010