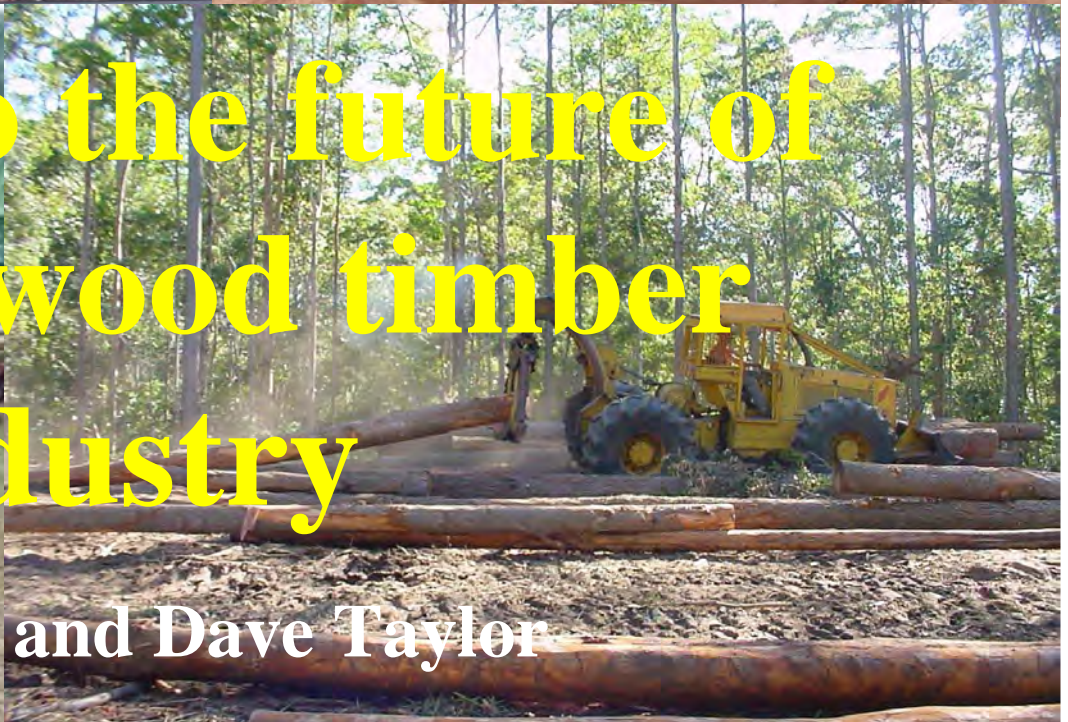




Private Native Forests



The key to the future of the hardwood timber industry

Sean Ryan and Dave Taylor

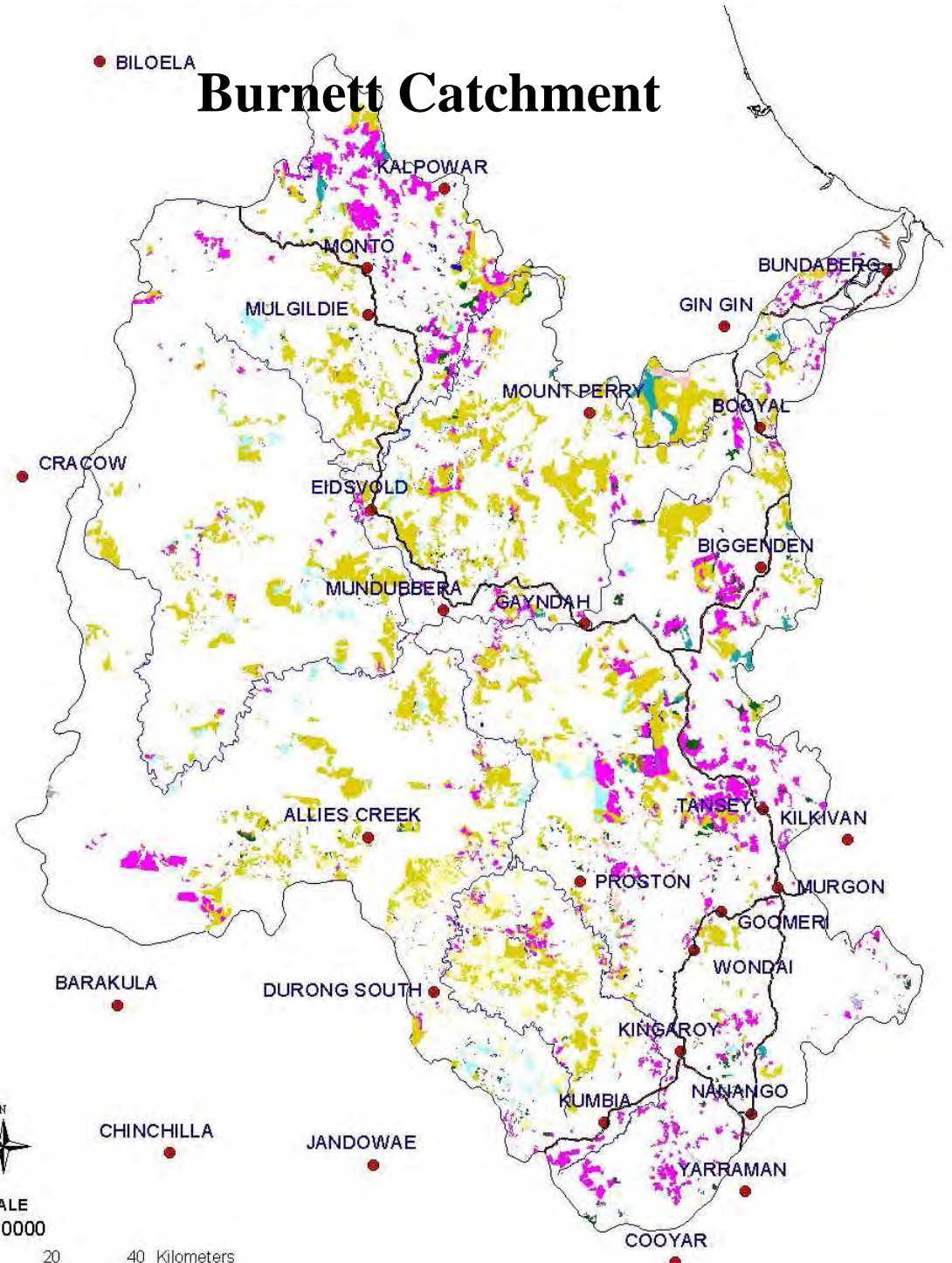


Forest Type



Forest Type	Area
Mixed Spotted Gum	271,742
Mixed Ironbark	119,235
Mixed Box	32,921
Mixed Yellow St	10,830
Total PNF	517,559

Burnett Catchment



History

1804 - First export to HM Dockyards

1828 - 36 7.5 m super feet, Red Cedar &
2 m super feet Blue Gum

Early 1900's - Qld State Forests established

1919 - treatment for overstocking commenced

1930's – treatment of up to 25,000 ha /yr

Late 40's surged again to 20,000ha/yr and again
in the **1960's** with the introduction of phenoxy
herbicides

1974 economic rationalists deemed it uneconomic



Treatment was based on

- **The removal of useless stems from the stand,**
- **Selection of the retained stand based on potential, and**
- **Thinning of the remainder of the stand where necessary.**



SEQ FA Area

95/96 ABARE survey

- **97 mills employing >1000 people**
- **8 mills >10,000m³/yr , 45 <1,000m³ sawlog inputs**
- **339,000m³ total sawlog input, 62% sourced from private resource**
- **2001 - 165,000m³ sawlog input, 67% from private resource**



Native Forest Production - SEQ FA Region

State Allocation

Pre 1999 – Approximately 100,000 m³/yr

2001 – 54,600 m³/yr

2010 – 49,120 m³/yr

**2024 –plantation grown Hwd available but
no guaranteed supply**

**Private Native Forests 7%/yr productivity drop
in last decade**

1994-95 – 180,000 m³/yr

2000-01 - 111,000 m³/yr (Forestry Year Book)



Issues Limiting the Adoption of NFM by Landholders.

- **Lack of PNFM ethos**
- **Lack of information and data regarding silviculture, economics and marketing**
- **Landholders unconvinced of the economic benefits of sustainable management after poor returns from previous harvesting**
- **Degraded resource from past management practices**
- **New owners buying up, stripping forests and then clearing for grazing**



The 4 Four categories of PNF Condition

- 1. Young regrowth derived from lignotubers or seedlings**
- 2. Unmanaged advanced regrowth**
- 3. Well managed forests often incorporating Grazing**
- 4. 'High-graded' forests dominated by damaged and suppressed trees often with degraded old snig tracks and log dumps**



Demonstration Sites

Miva - 225ha Property

‘High-Graded’ Mixed Spotted Gum Stand 10 years on



Original stand

Residual Stand

DBH Class (cm)				
10-20	20-30	30-40	40+	Total
91	93	69	-	253
18	42	30	-	90

Merchantable products/ha	\$1,400
Cost of operation/ha	\$700
Cost of treatment/ha	\$200
Stand marking and marketing/ha	\$200
Return/ha	\$310

Wamuran –

Unmanaged Moist Regrowth Forest

DBH	Av stocking pre treatment	Treated to 10x10	Control
40+	20	6	12
30-40	68	37	56
20-30	165	50	225
10-20	308	6	475
Total	561	100	769

Species mix

- **Grey Gum**
- **Grey Ironbark**
- **Yellow Stringybark**
- **Gum Topped Box**
- **Broad Leafed Red Ironbark**



Wamuran products, costs and return / 2 ha

Product	Number	Value (\$)
3m Rails	181	1,810
2.1 heavy Strainers	51	510
Light strainers	200	1,800
3m stays	100	500
2.7 Yard posts	49	735
2 nd Class Sawlog	1.76m ³	65
Total/2 ha		5420
Total Costs/2ha		2,878
Return/2ha		2,542



Gundiah

Thompsons – 2,100ha property

Well managed mixed Spotted Gum Forest

Dbh Class (cm)							
10-20	20-30	30-40	40-50	50-60	60-70	70+	Total/ha
70	23	18	8	7	5.3	1.5	133

Species mix

- Spotted Gum 53%
- Grey Ironbark 19%
- Forest Red Gum 9%
- Gum Topped Box 5%
- Other 14%

86% Commercial species

Standing Volume 28.6m³/ha

Harvested 10.6 m³/ha

Sawlog \$104 /m³, salvage \$50/ m³
at dump(includes cut and snig @ \$22



Kin Kin - Unmanaged Messmate Forest

DBH Class (cm)				
10-20	20-30	30-40	40+	Total/ha
158	107	68	57	Av 390

Stumpage value & Product Removals from 8ha

- Sawlog - 170m³ \$10,568
- Salvage sawlog - 79m³ \$ 1,035
- Piles – 418 lm \$ 1,226
- Poles – 64 lm \$ 1,821
- Split Posts - 2,450 \$ 5,145
- Strainers, rails and stays -724 \$ 5,422



Crow's Nest

DBH Class(cm)				
10-20	20-30	30-40	40-50	Total
95	47	13	8	163

Stand Characteristics

66%	NRI	8% - meet sawlog specifications
13.5%	CAR	25% - had potential to meet sawlog specs
9.5%	RBA	11% - intermediate but with potential to meet some product
6.6%	RBW	
4.4%	SLI	43% - useless other than firewood

Standing Volume of sawlog, potential sawlog and intermediate – 11.97m³/ha



Crow's Nest Products , Costs and Returns (4ha)

Product	Number	Value \$
Yard Posts	14	252
Strainers	26	390
Rails	35	350
Stays	35	245
Light Strainers	6	72
Split Posts	20	120
Sawlog	5.67m ³	312
Total		1741

Task	Costs \$
Paint Mark	120
Cut and Bark	320
Snig	800
Cut to waste	120
Inject	120
Total	1554

All work costed at contractors rates even when undertaken by landholder



Species Mix

- **Spotted Gum** 29%
- **Blackbutt** 20%
- **Grey Ironbark** 10%
- **Broadleaf Red** 5%
- **Narrow Leaf Red** 4%
- **Brush Box** 4%
- **Yellow Stringy** 5%
- **Tallowwood** 4%
- **Others** 19%



Plantation Production Risk Assessment

- **Majority of plantations are made up of 2 species**
- **High risk factors associated with drought, cyclones and insect attack**
- **A fixed 25 year rotation length could result in very poor returns to the grower**
- **Growers will not participate in second round if poor economic outcomes**
- **5,000ha of plantation realistically replaces 8 years of pre-RFA production**
- **The cost of 5,000 ha of plantation establishment is equivalent to 100,000ha of NF treatment**



Conclusion

- **Private native forests supports a very significant resource**
- **Most of it is in a degraded state but is often cost neutral to rehabilitate**
- **The SEQ FA stake holder agreement included incentives for ESFM on private land but this has not eventuated**
- **ESFM is low cost with a wide variety of environmental and productivity outcomes**



Conclusion cont

Plantation production is inherently high risk due to

- **Untested production**
- **Concentrations of the resource in a relatively confined area**
- **At risk from range of limiting factors such as drought, fire or cyclones**
- **25 year rotation may result in poor economic returns to the grower**

A variety of production scenarios need to be in place including private native forest as a major contributor

