



NSW DEPARTMENT OF
PRIMARY INDUSTRIES



Partners in the profitable and sustainable development of
agriculture, fisheries, forests and minerals in New South Wales



Forests NSW

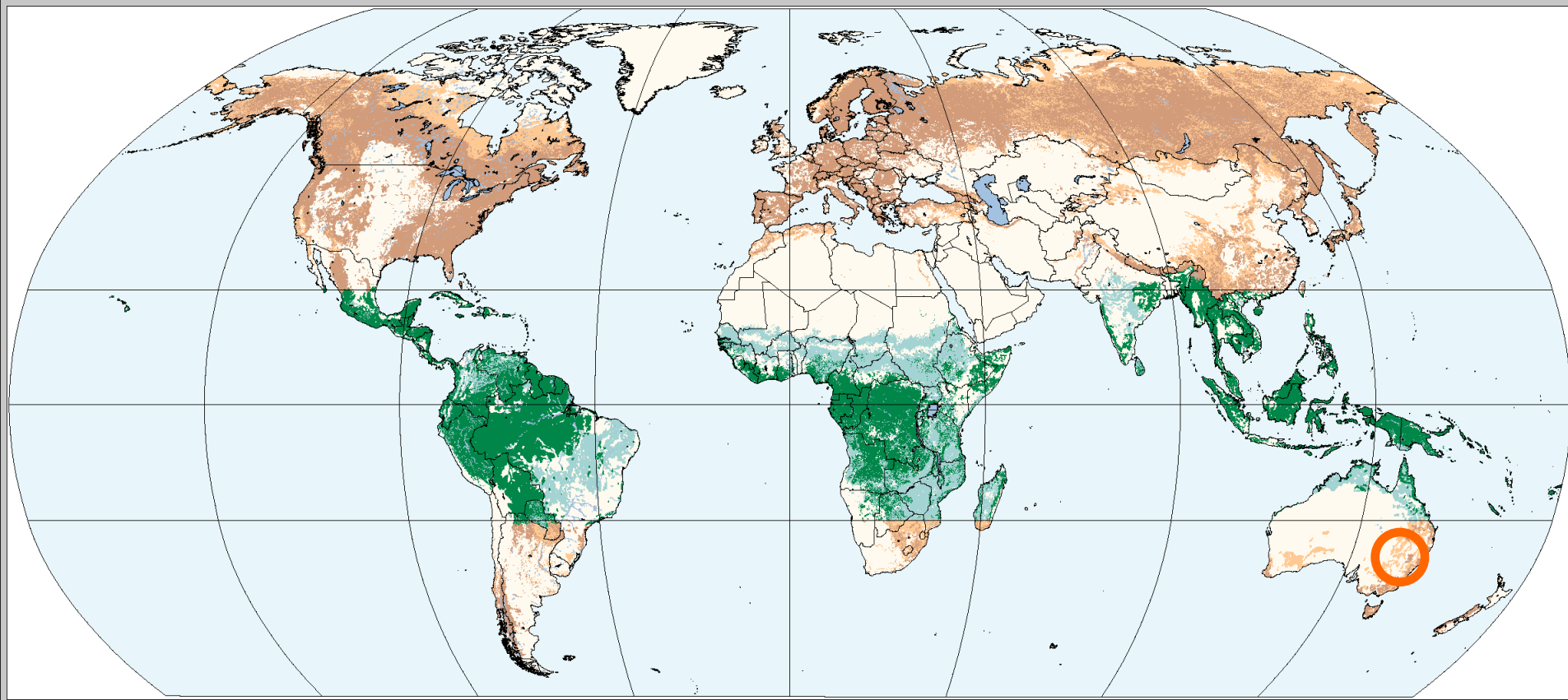
**Nobody likes Log Trucks no matter where
you come from**

Current Global Distribution of Forests

■ Closed Non-Tropical Forest ■ Closed Tropical Forest ■ Non-Forest
■ Open Non-Tropical Forest ■ Open Tropical Forest ■ Water Bodies

Compiled by: World Conservation Monitoring Centre for the World Commission on Forests and Sustainable Development

Date: February 20, 1998 Projection: Robinson

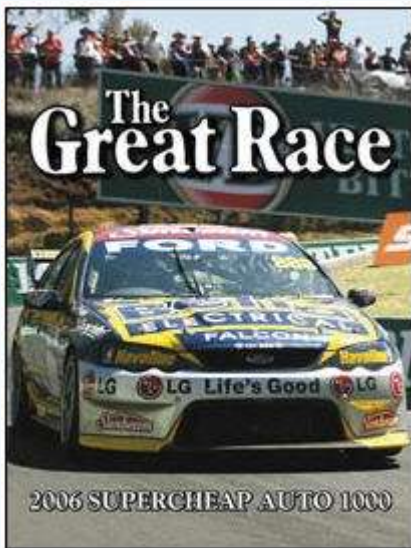


Australia

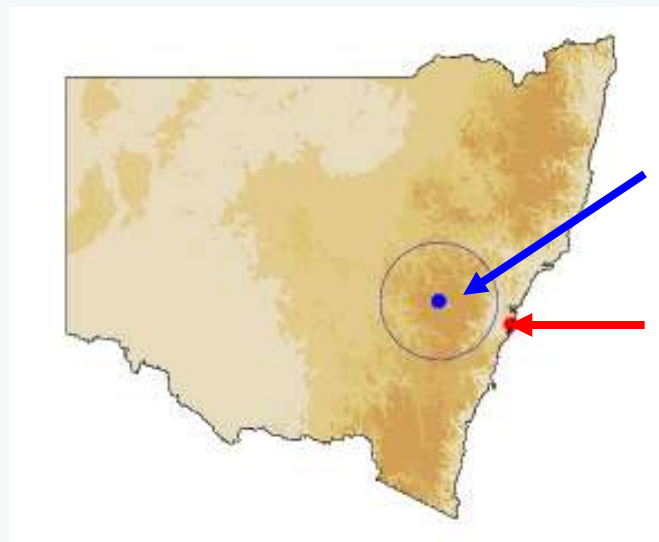
[/www.iisd.org/wcfsd/currentforests.htm](http://www.iisd.org/wcfsd/currentforests.htm)

- with 4% of the worlds forests is the 6th largest forested country in the world.
- 12th largest producer of logs: 26.7 million m³
- 2% of the worlds plantations: about 1.8 million ha
- 4th largest area of forest locked up for conservation: 21.5 million ha





www.darcysmodelcars.com



Bathurst

Sydney



www.smh.com.au





Area

Hectares

FNSW plantation

63,200

FNSW Joint Venture

600

Third Party leased stands

1,200

Net Planted Area (1/12/06)

65,000

Land bank

4,000

Plantable Area

69,000

Environmental Exclusion
(native forest)

76,300

Service Exclusion
(roads / powerlines)

6,000

Gross Area of State forest

154,000

Private Plantation

15,000

CENTRAL WEST FOREST MAP





Forests NSW is a public trading enterprise within the NSW Department of Primary Industries

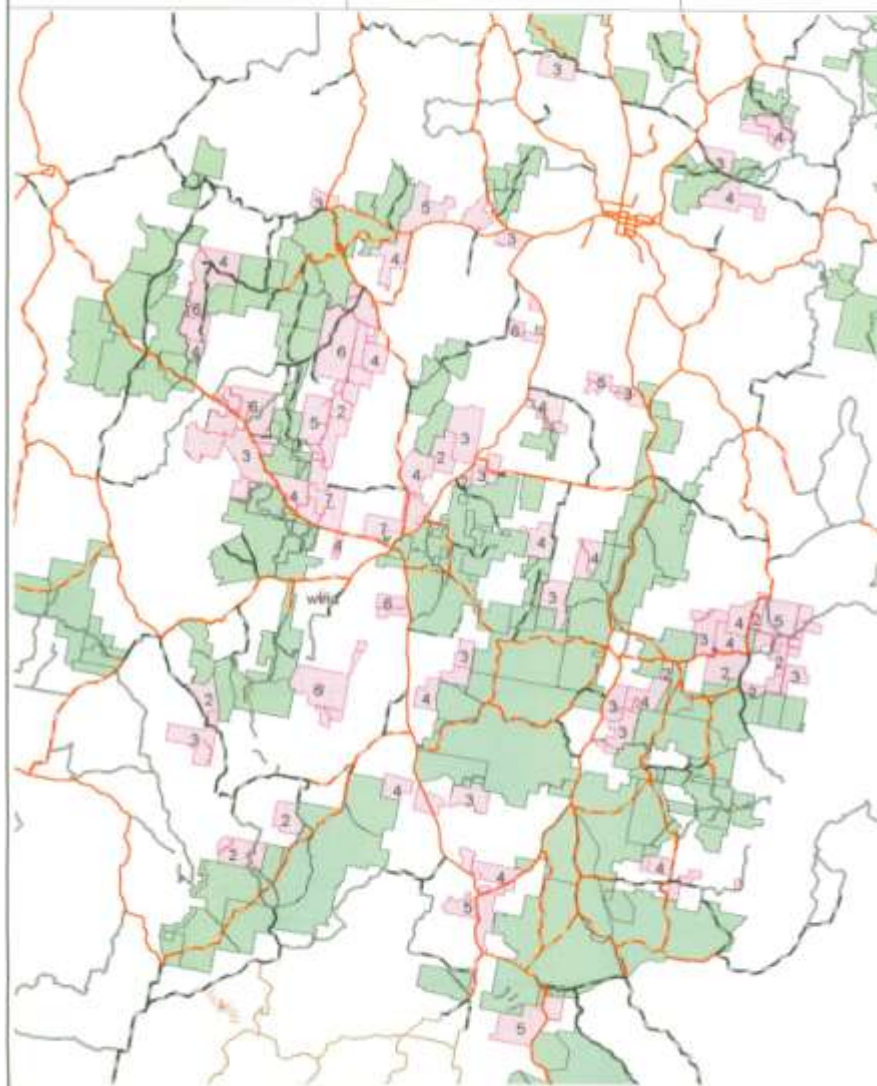


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Responsible for managing over 2.4 million hectares of public forests in NSW, Forests NSW primary objective is to maintain a sustainable supply of timber for the people of NSW



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Internal Roads

- standard formation width is 4.2 metres for plantation access
- usually with hard stand for prentice loader between road and stack
- 10 m³ of wood requires about 1 m³ of gravel

All roads are built to meet external regulation and internal codes (EPA Pollution Licence, P&R Act Authorisation, FNSW Forests Practices Code and certification codes)

PLANTATIONS AND REAFFORESTATION Act Drainage Requirements

If the slope of the road or track is:	Then the drainage structure must be placed at least every:	or track is:	Then the drainage structure must be placed at least every:
1°	250 metres	16°	38 metres
2°	200 metres	17°	36 metres
3°	150 metres	18°	34 metres
4°	125 metres	19°	32 metres
5°	100 metres	20°	30 metres
6°	90 metres	21°	28 metres
7°	80 metres	22°	26 metres
8°	70 metres	23°	24 metres
9°	65 metres	24°	22 metres
10°	60 metres	25°	20 metres
11°	55 metres	26°	19 metres
12°	50 metres	27°	18 metres
13°	45 metres	28°	17 metres
14°	40 metres	29°	16 metres
15°	40 metres	30°	15 metres

Cost of Upgrading and Maintaining Roads for the Life of a Harvesting Operation

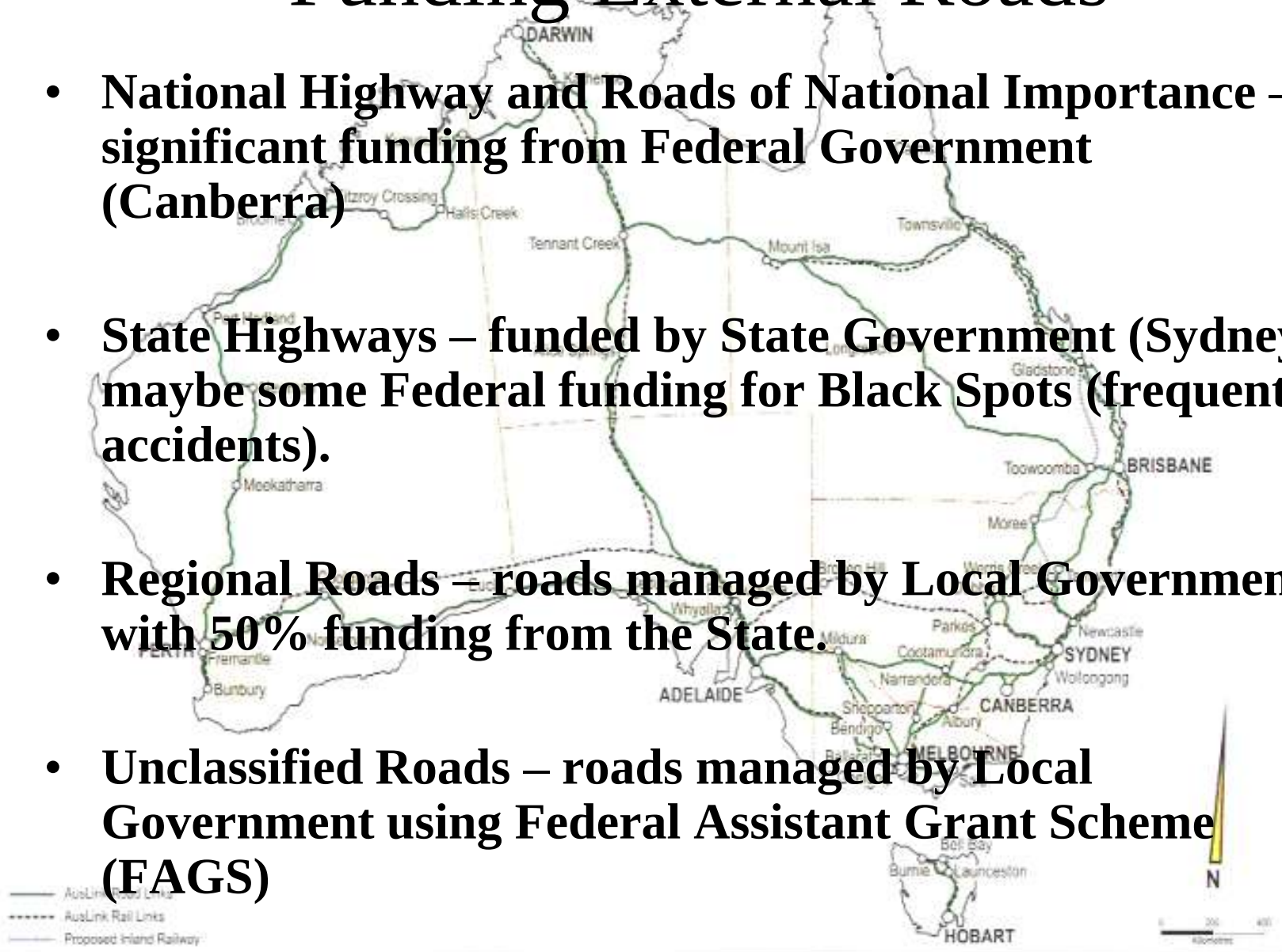
Operation Type	£/ha	Age (yrs)	Tonnes/ha
Cable	£520	30-40	550-600
Unthinned Clearfall	£215	28-35	500-550
Mature Clearfall	£180	32-35	380
Second Thinning	£150	22-27	110
First Thinning	£205	14-18	120



Internal haulage routes on State forest can cost between £4,000/km (for Gravel road) to about £170,000/km (for sealed roads)

Funding External Roads

- **National Highway and Roads of National Importance – significant funding from Federal Government (Canberra)**
- **State Highways – funded by State Government (Sydney), maybe some Federal funding for Black Spots (frequent accidents).**
- **Regional Roads – roads managed by Local Government with 50% funding from the State.**
- **Unclassified Roads – roads managed by Local Government using Federal Assistant Grant Scheme (FAGS)**



External Roads

- Forests NSW in the Central Tablelands contributes about £1million per annum to Local Government Roads



PLANTATIONS AND REAFFORESTATION ACT (NSW) 1999

The objects of this Act are:

- (a) to facilitate the reforestation of land, and
- (b) to promote and facilitate development for timber plantations on essentially cleared land, and
- (c) to codify environmental standards, and provide a streamlined and integrated scheme, for the establishment, management and harvesting of timber and other forest plantations, and
- (d) to make provision relating to regional transport infrastructure expenditure in connection with timber plantations,**

consistently with the principles of ecologically sustainable development.



PLANTATIONS AND REAFFORESTATION ACT (NSW) 1999

Regional contribution plans

- (1) A contribution plan prepared by a regional committee in respect of authorised timber plantations in its region is to be submitted to the Minister. The contribution plan does not have effect until it is approved by the Minister.
- (2) A contribution plan is to make provision with respect to transport infrastructure expenditure in the region, including:
 - (a) identifying the transport infrastructure expenditure likely to be required for authorised timber plantations in the region, and
 - (b) fixing a reasonable rate of financial contribution to be made by the owners of those plantations, and
 - (c) specifying the time at which the expenditure is likely to be incurred, and
 - (d) any other provision required by the guidelines issued by the Minister.
- (3) If there is no relevant contribution plan in force at the time a timber plantation is authorised under this Act, the Minister may determine the matters required to be dealt with in the contribution plan.

Truck Configurations:



Skel

Axles: 6

Gross: 42.5 T

Payload: 27 T

Length: 19 metres

Run on any road



Truck Configurations:



Prentice Loader



Truck Configurations:



B-double

Axles: 9

Gross: 62.5 T

Payload: 41.5 T

Length: 25 metres

Roads require Gazettal for B-double use



Truck Configurations:



Mini B-double
Axles: 7

Gross: 50 T (55 T)

Payload: 31 T (36 T)

Length: 19 metres

Run on any road; however,
an extra 5 T allowed on
roads Gazetted for
B-double use



Truck Configurations:



Chip Truck
Axles: 6

Gross: 42.5 T

Payload: 25 T

Length: 19 metres

Walking Floor



Central Tyre Inflation (CTI)



Unfortunately Experience Provides the Best Lessons: Whether through time or by Accident

