







AUSTRALIAN

WA FOREST AGREEMENT MAKES HISTORY

The Potential for Forests and Forests Industries in the New Millenium

Presentation by

Dr Syd Shea
Executive Director
Department of CALM

to the Leschenaultia Hoo Hoo Club

23 March 1999

AUSTRALIAN

WA FOREST AGREEMENT MAKES HISTORY

The West Australian

PERTH PRIDAY PERRUARY 7 1992

All can gain in forests plan

THE reaction of the timber industry and conservations is the State Government's new strategy for WA forests shows how hard it has become so find consensus in the management of the state's natural resources.

Both sides criticised the plan — bur for opposite reasons. The Forest Industries Federation said the proposal missed the apportunity to expand the timber industry, while the WA Conservation Council bemoaned that there would be no reduction in the amount of timber cut from the forests.

Whether they realise it or not, such stereotyped responses from vested interest groups simply reinforce the perception that economic exploitation of the forests and conservation are mutually exclusive and that the timber industry and the environment movement cannot co-exist. It is disappointing that both sides, in their efforts to score public relations points at every turn, ignore their common ground — that wishout healthy forests neither can benefit in the long term.

The Conternation and Land Management Department's review of WA forests is a commendable altempt to balance industry demands with sensible conservation measures. The associated agreement between CALM and the Australian Heritage Commission also has potential to prevent conflict between agencies at federal and since level and to end the pieromeal approach to the listing of areas in the national estate.

The addition of 124,000 hectares of forest to reaservation reserves in the South West will protect further big areas of woodland and preserve the natural hebitat of many animal and plant species. It will also increase the area available for other uses, including education, recreation and those associated with tourism.

Changes proposed by the review to timber harvesting operations are also welcome. The retention of more old trees in areas earmarked for cutting and the reduced size of cutting zones should help retain more of the natural character of the forests.

But the review is not all bad news for the simber industry which, through annual sales turnover of \$650 million and the provision of up to 24,000 jobs, makes an important contribution to the state economy.

The identification of areas available for logaing should enable the industry to plan future operations with confidence. The review's confirmation that more timber is available than had previously been established should improve the prospect of continued investment in the industry.

"The Conservation and Land Management Department's review of WA forests is a commendable attempt to balance industry measures. The associated agreement between CALM and the Australian Heritage Commission also has potential to prevent conflict between agencies at federal and state level and to end the piecemeal approach to the listing of areas in the national estate."

The Current Reserve System

1,000,000 hectare reserves

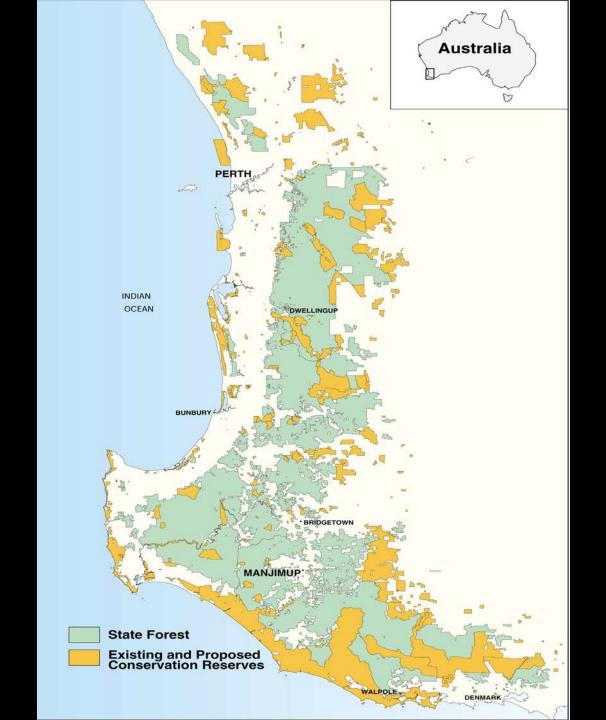
= 46% of Karri Forest

= 35% of Jarrah Forest

203,000 hectares of Old Growth Forest Reserves = 58.4%

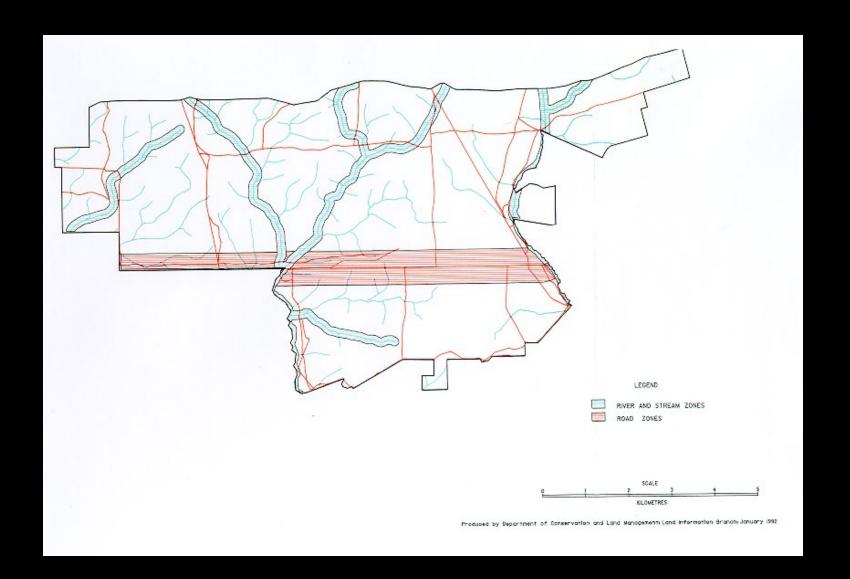
46,000 hectares of Old Growth Karri Forest Reserves = 72%

148,000 hectares of Old Growth Jarrah Forest Reserves = 54%

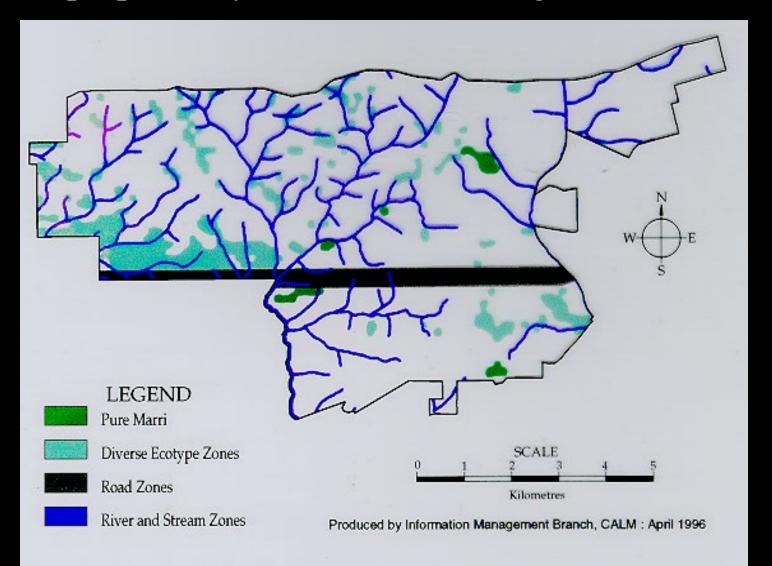




Distribution of Road, River and Stream Zones, Jane Forest Block, Pemberton District prior to 1994

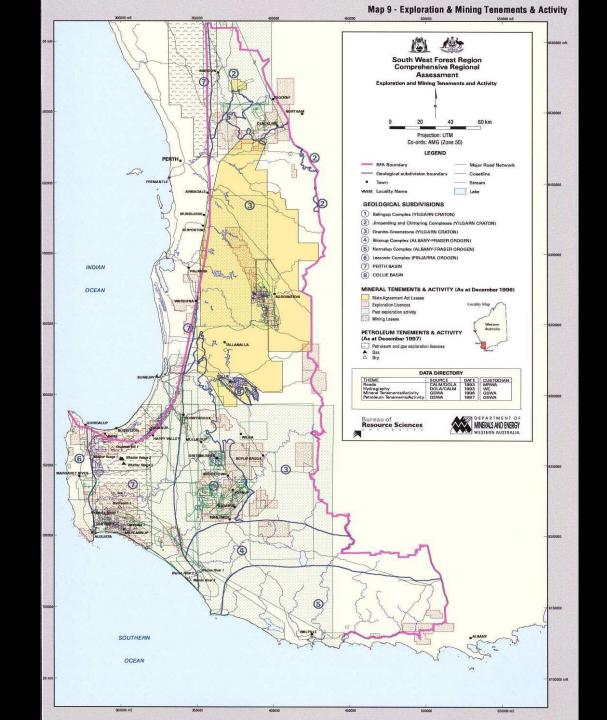


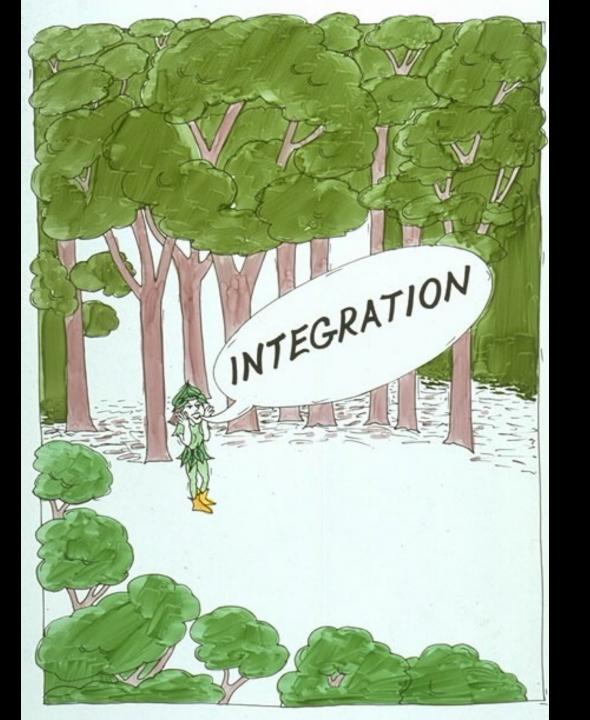
Distribution of Road, River and Stream Zones, Jane Forest Block, Pemberton District, (proposed by 1994 Forest Management Plan)



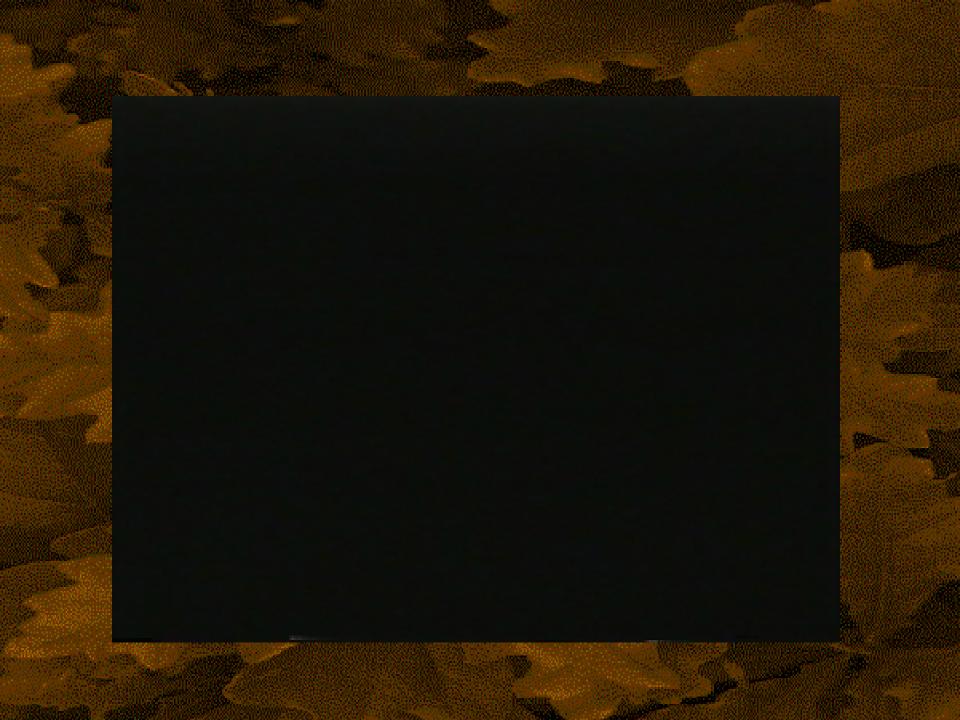
Conservation values of forest are important, but the forests of the south-west also make up a major economic contribution.

	Value (\$million)	Employment
Mining	2 680	39 500
Timber	850	20 000
Tourism	56	7000 - 9500
Beekeeping	7	250
Basic Raw Materials	768	4 127





- Integrating the needs of all of the community now and in the future
- ☐ Integrating different sustainable land uses with sustainable conservation
- Integrating conservation with wealth generation and employment creation
- ☐ Integrating management and scientific skills to achieve these objectives



Stages of Development of the Karri Forest

Stage 1 Establishment

Stage 2 Juvenile

Stage 3 Immature

Stage 4 Mature

Stage 5 Senescent

0-8 years

9-25 years

26-120 years

121-250 years

251-350+ years

Ages are approximate and considerable variation is known to occur.



15 year old karri



50 year old karri

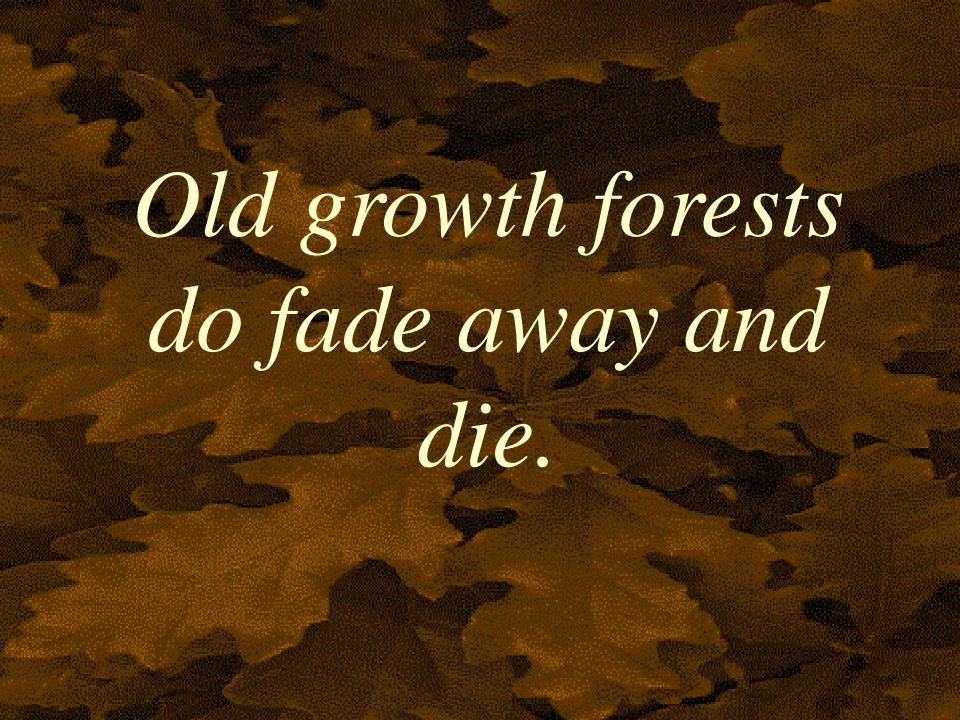


120 year old karri



Old growth karri





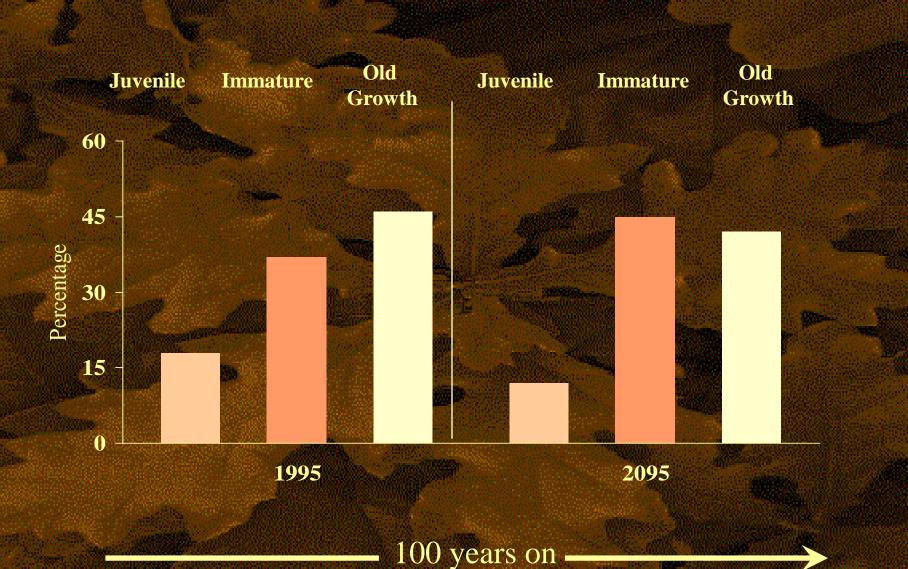








Karri Forest Structure



Regional Forest Agreements

*

COMPREHENSIVE, ADEQUATE & REPRESENTATIVE RESERVE SYSTEM

INDUSTRY & COMMUNITY CERTAINTY

ECOLOGICALLY SUSTAINABLE FOREST MANAGEMENT

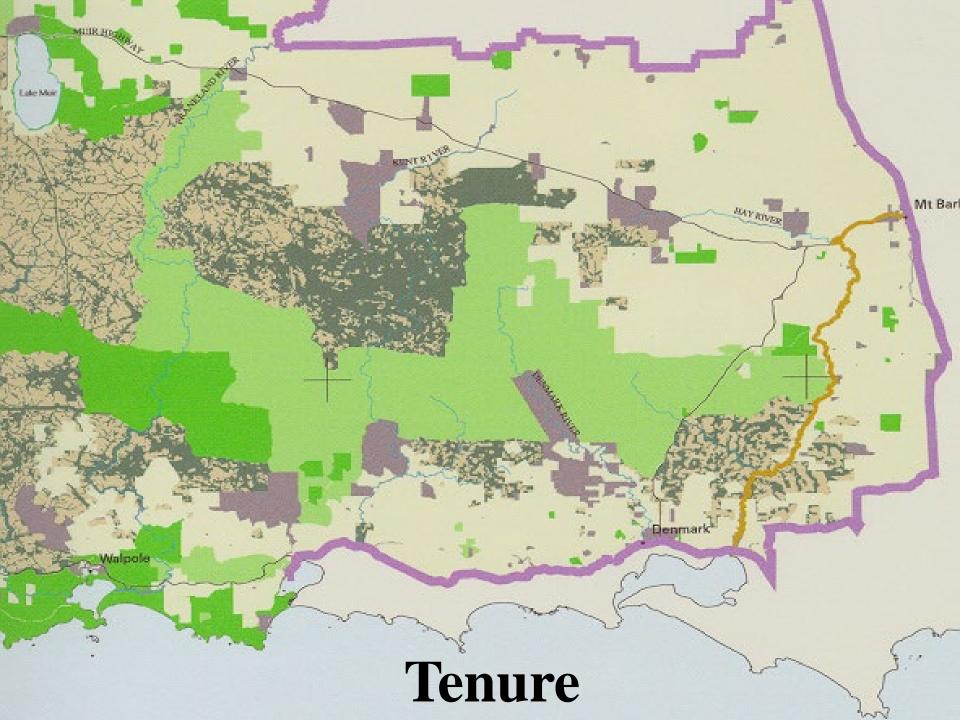
Nationally Agreed Forest Reserves Criteria

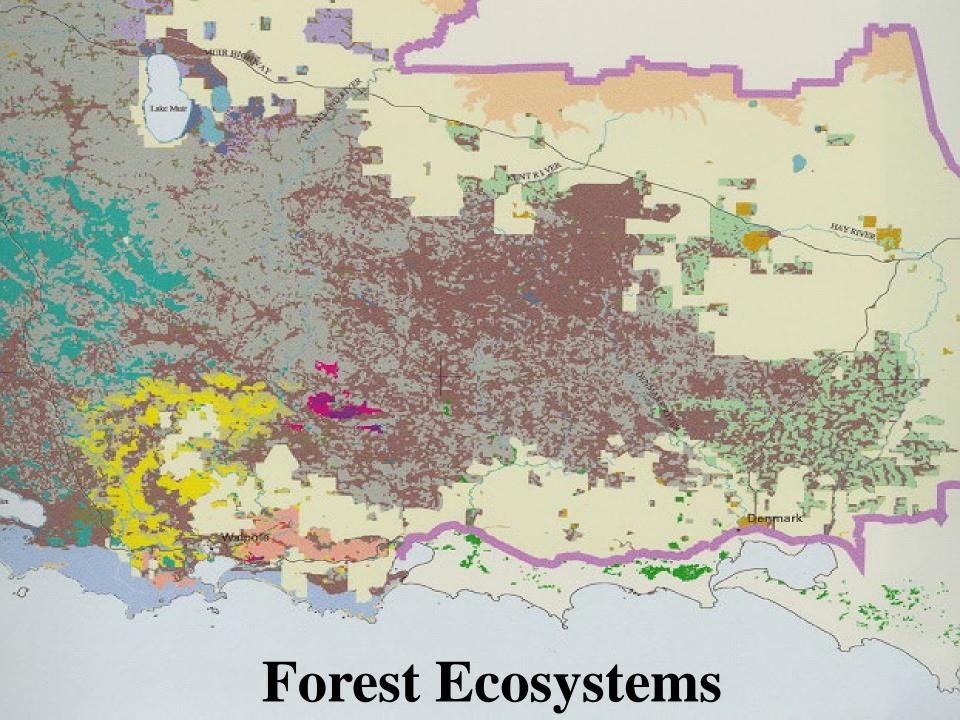
Biodiversity Criteria

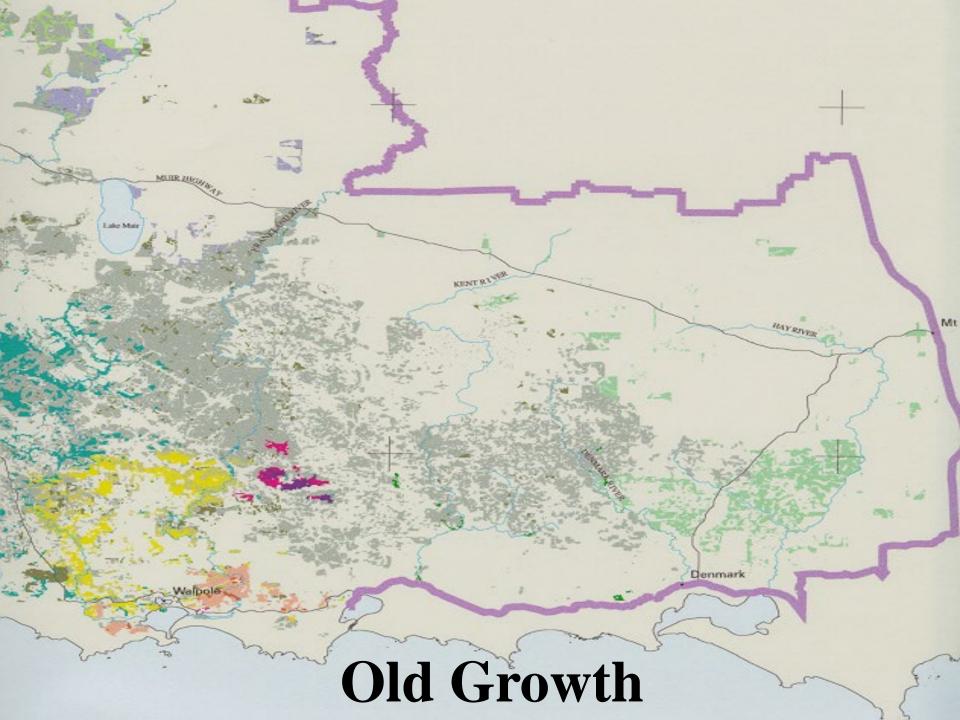
- 1. 15% of pre-1750 distribution of each forest ecosystem in reserves
- 2. 60% of vulnerable forest ecosystems in reserves (vulnerable = 70% depleted and threatening processes continuing)
- 3. 100% of rare and endangered forest ecosystems in reserves (rare = total area less than 1000 hectares)

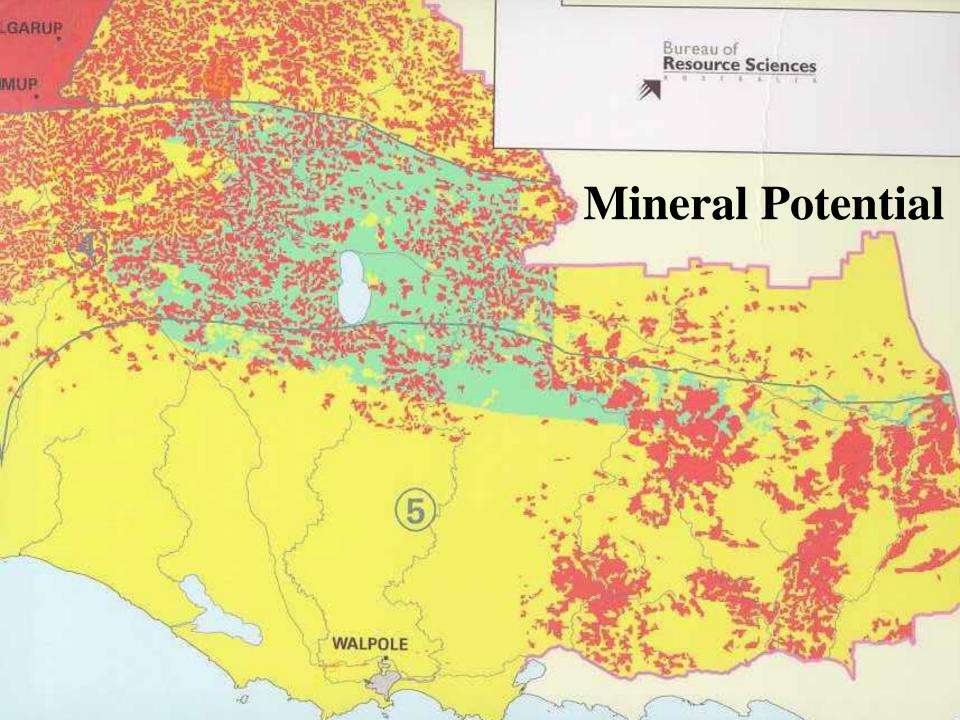
Science of the RFA

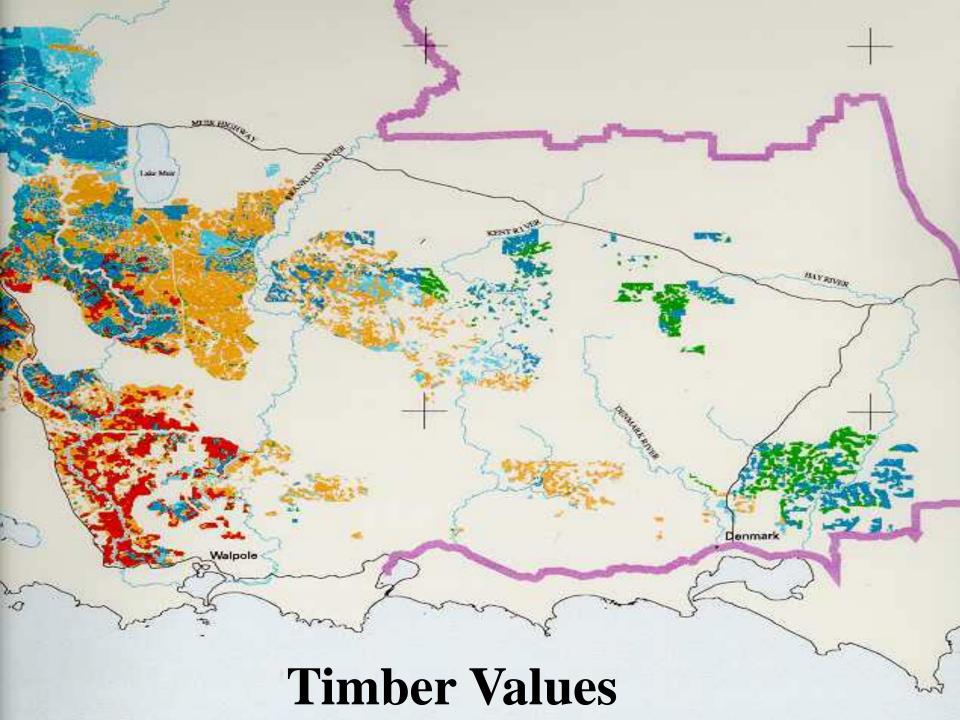
- ☐ Over 46 RFA reports covering Environment, Heritage, Economic and Social assessments
- ☐ More than 500 scientists participated in the assessments
- ☐ 312 vegetation complexes were mapped
- ☐ 27 forest ecosystems were mapped
- ☐ There were 153 000 records of 3244 plant species documented
- A new database for fauna involving 76 000 records of 796 species was completed











Public Consultation

Prior to the RFA process

- ☐ 1982 EPA review of karri forest 500 public submissions
- ☐ 1987 Regional Forest Management Plans and Timber Strategy public consultation phase involving 1891 public submissions
- 1990 Resources Assessment Inquiry each involving public
- ☐ 1991 Review of Ecologically Sustainable Development) hearings, community workshops
- □ 1991 National Forest Policy Statement) and public submissions
- ☐ 1992 Draft Forest Management Plan
 - public submissions under the CALM Act
 - public submissions under EPA Assessment Process
- ☐ 1993 Appeals Committee Review of Forest Management Plans extensive community workshops and public submissions
- ☐ 1995 Deferred Forest Assessment Process 500 public submissions

Consultation During RFA

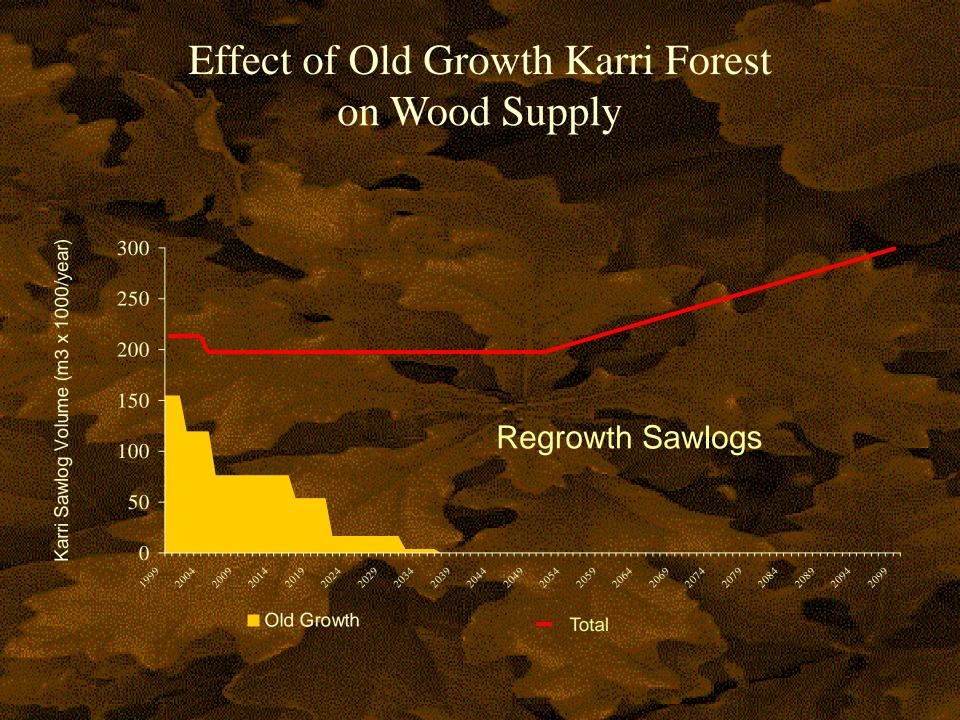
	The second secon	THE PROPERTY OF THE PROPERTY O
	1997	8 public meetings in Perth and throughout the South-West
	1997-98	122 meetings with organisations
. I	1996-98	9 meetings of Stakeholder Reference Group
	1996-97	5 meetings on Noongar Action Group
	1997	9 public open days in Perth and throughout the South-West
	1997	10 public open days in Perth and throughout the South-West
	1997	10 community heritage workshops in Perth and throughout the South-West
<u>.</u>	1997-98	7 indigenous workshops throughout the south-west
	1997-98	195 meetings with organisations and individuals by the Social Assessment Unit
	1998	30 000 public submissions

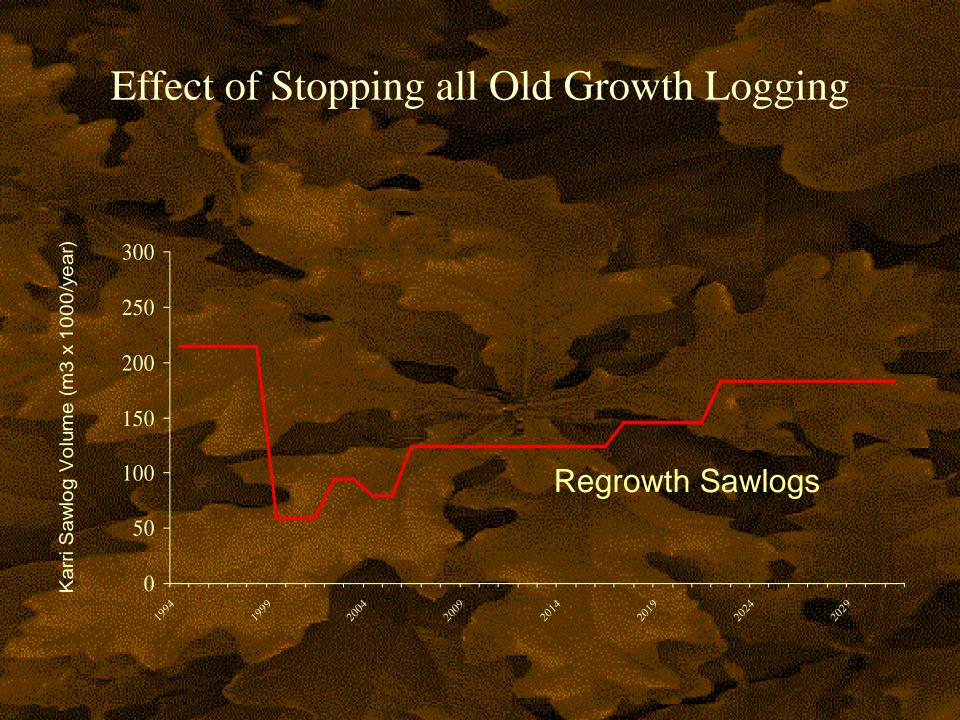
The WA Forest Alliance Proposal

- ☐ An additional 657 000 hectares of new reserves.
- These reserves include 95 000 hectares of old growth. 59 000 hectares of old growth remain as State forest.

Impact

- ☐ Karri sawlog yield down 65%
- ☐ Jarrah sawlog yield down 46%
- 6686 jobs in the timber industry
- □ 16 700 people in rural communities affected
- ☐ The impact of reserving **all** old growth would be even greater.





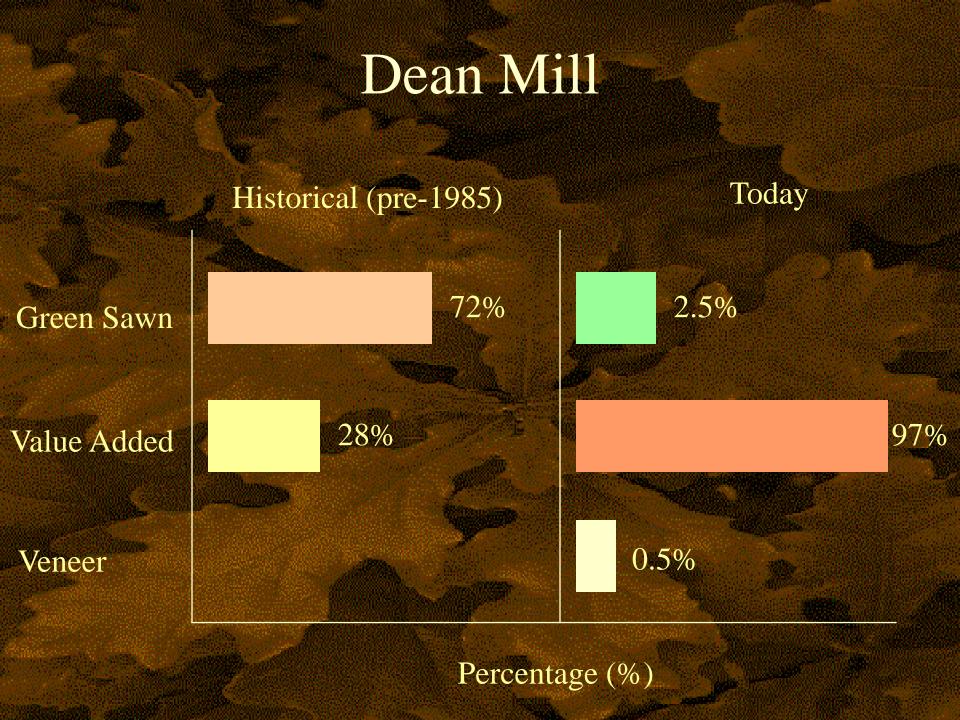
The Native Forest Timber Industry

The major objectives of the Government and the Timber Industry over the last 15 years have been to:

- ☐ convert the industry from one which essentially produced green sawn structural timber to one that produced high value ornamental products that capitalised on the ornamental values of our native timbers; and
- □ encourage the development of new technologies that would permit the industry to transition from resource that was primarily old growth to a resource based on regrowth forest.





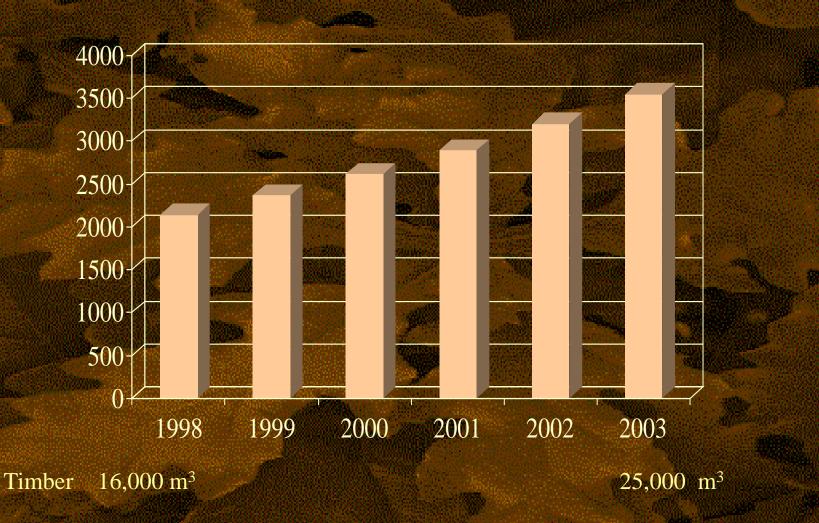






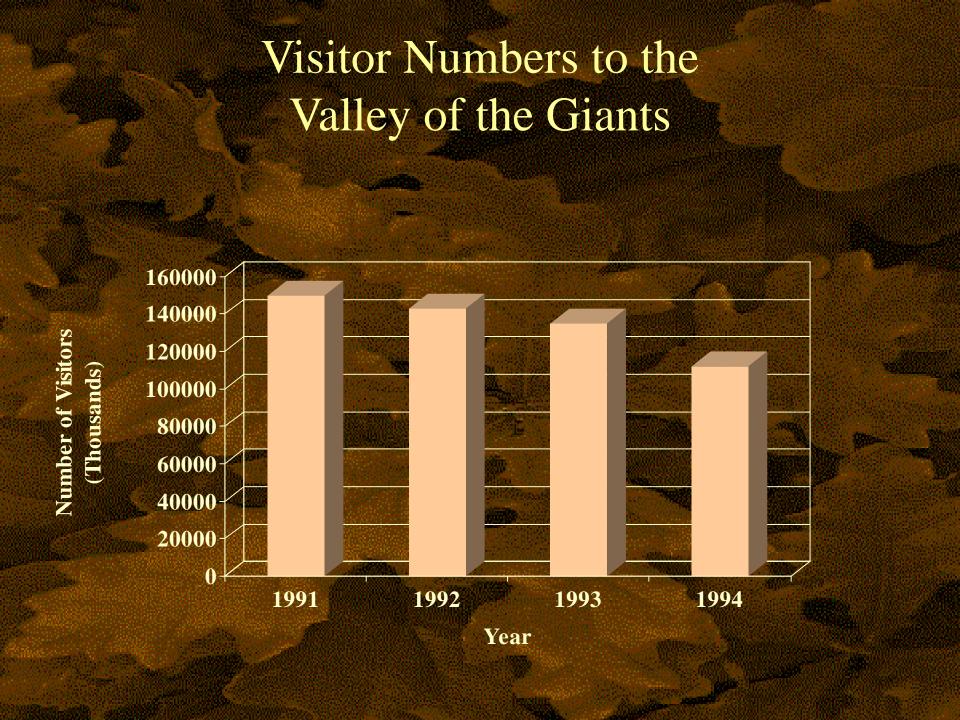






Source: BIS Schrapnel, 1998











24 months after opening the Tree Top Walk

- Tourist visitors to Walpole have doubled
- Six new accommodation outlets have opened
- A 35-room motel has been constructed
- 500,000 people have visited the Walk
- \$2.5 million revenue generated

Old Growth Forest Reserves

13 hectares of Old Growth Forest supports 200,000 visitor per annum

There are 347,000 hectares of Old Growth Forest Reserves

Therefore there is sufficient Old Growth Forest to provide for 5.3 billion visits per annum

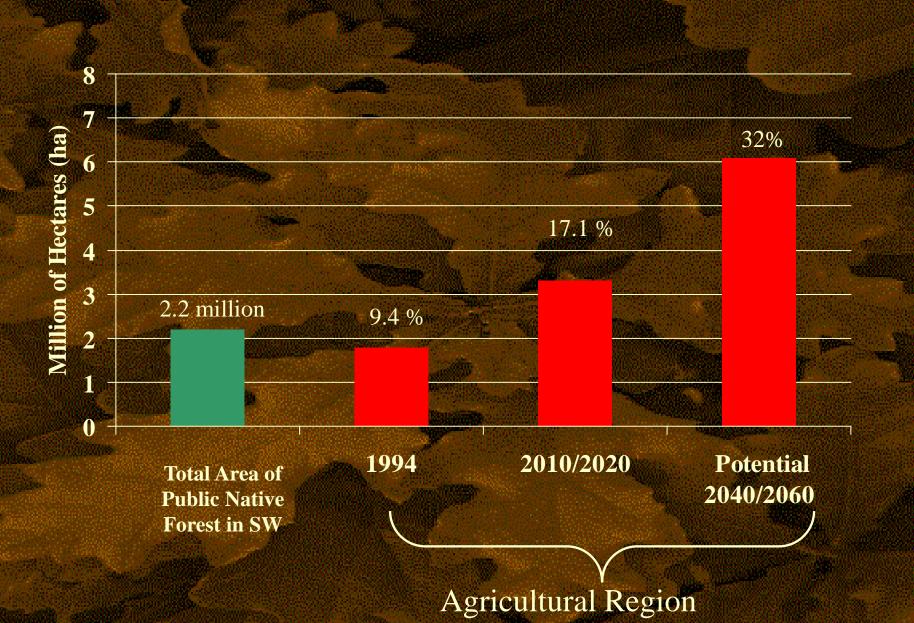
A major objective of Western Australia's forest management is to protect the quality of water that is produced from the forest.



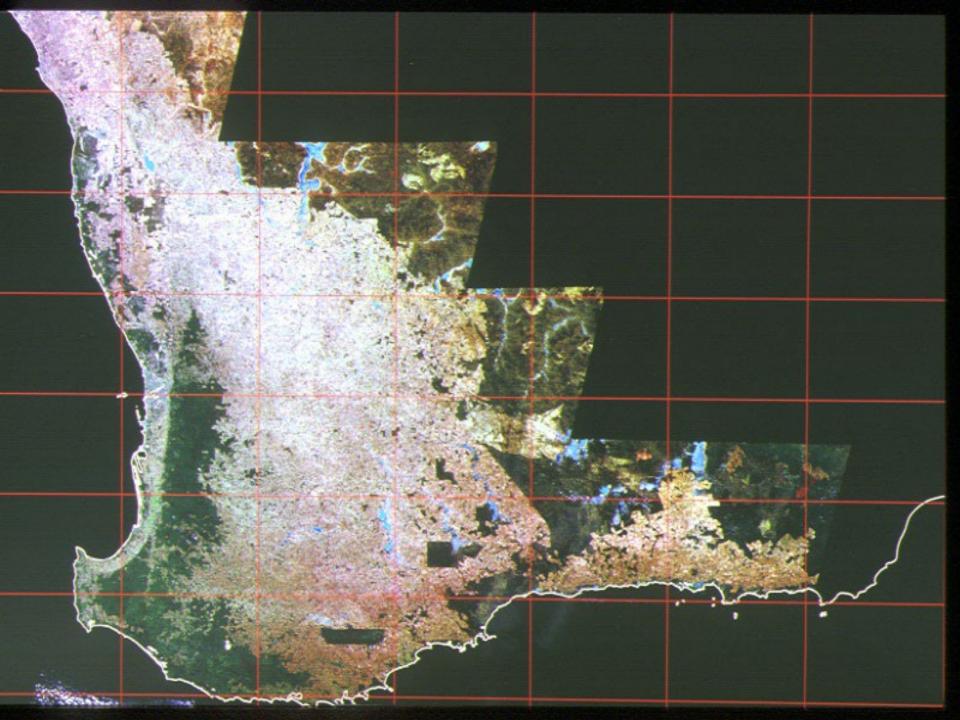
Western Australia's native forests have been logged for over 150 years but there is not one fully forested catchment which has water quality which is below fresh drinking water standards.



Areas of Land Effected by Secondary Salinity

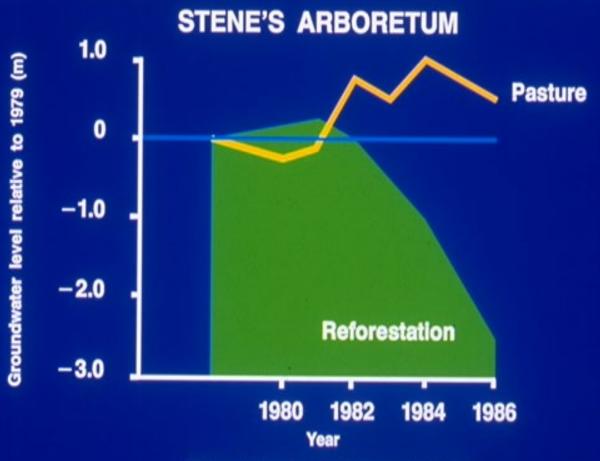








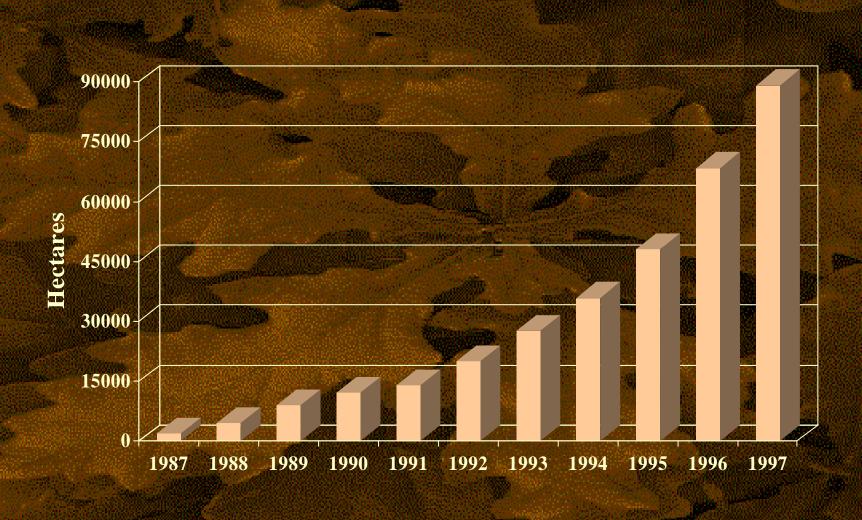
THE EFFECT OF TREE CROPS ON WATER TABLE LEVELS



Water Authority of Western Australia
July 1989
Report No. WS 33













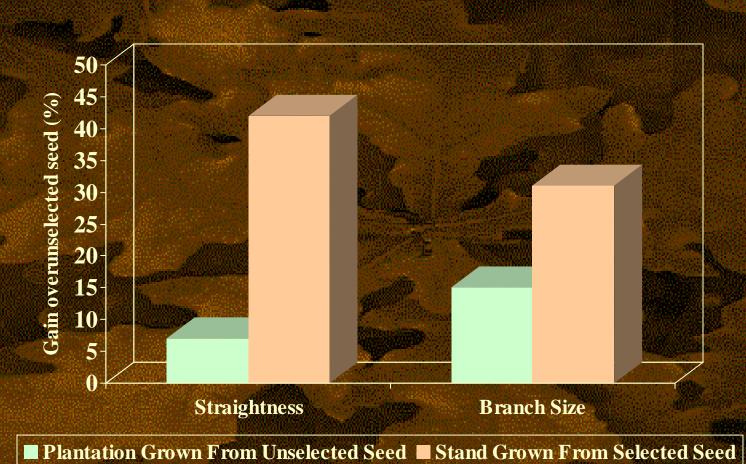


CALM's Genetic Resource: Pinus pinaster

Program commenced in 1957

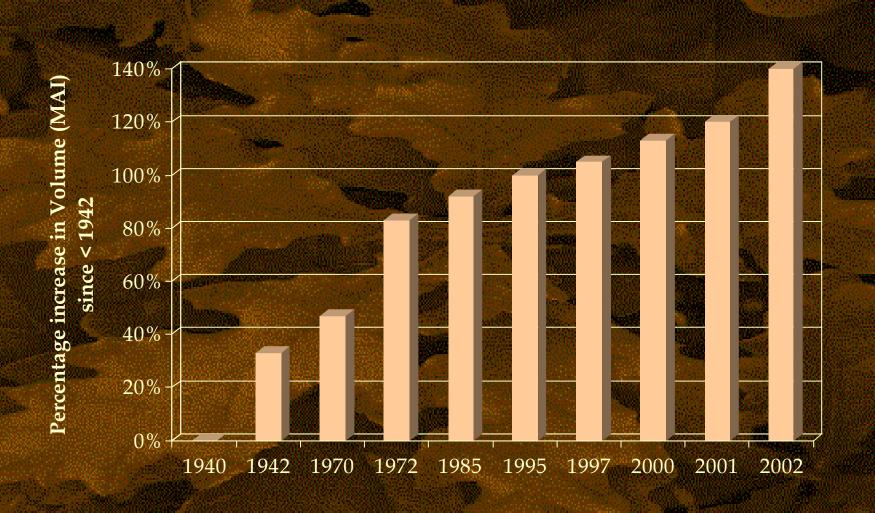
	Parents	Number	Area (ha)	Trees
Breeding Population Trials	313	93	171	202 000
Breeding Research Trials		11	43	45 000
Clonal Seed Orchards		4	48	(24 ha active)
Clonal Archives		3	6	Taking and the same of the sam

Maritime Pine Breeding Improvement



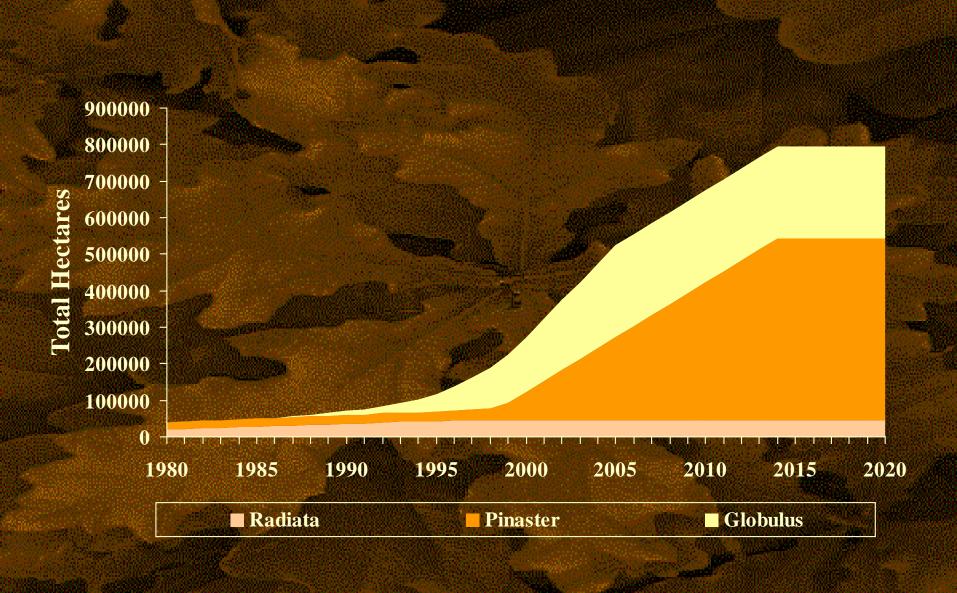


Volume gains from the tree improvement program for Maritime Pine

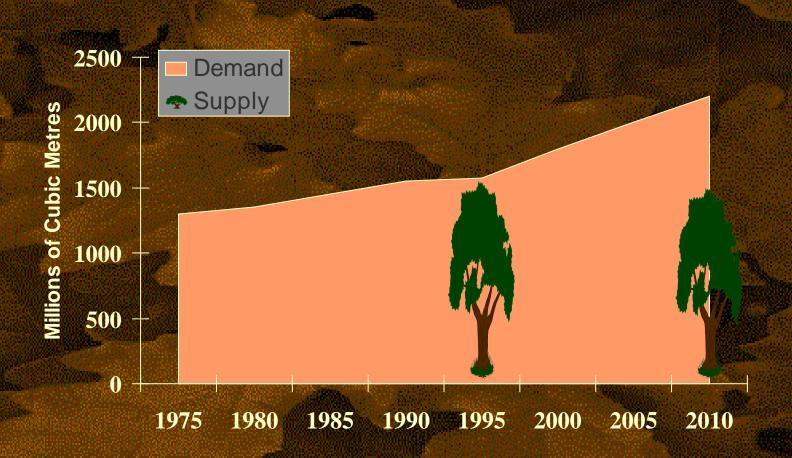




Predicted growth of tree crop plantings in Western Australia



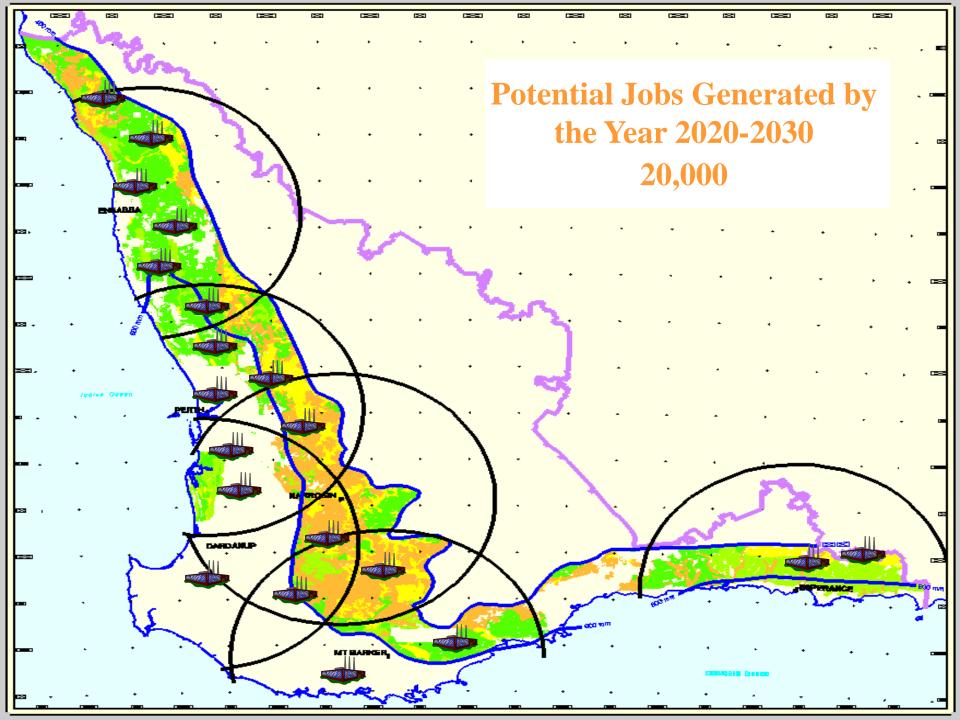
Global wood demand rises as supply falls



Sources: D A Neilson, UN FAO, Apsey & Reed, Jaakko Poyry, Widmans World Wood Reveiw, Xylem Investments Inc



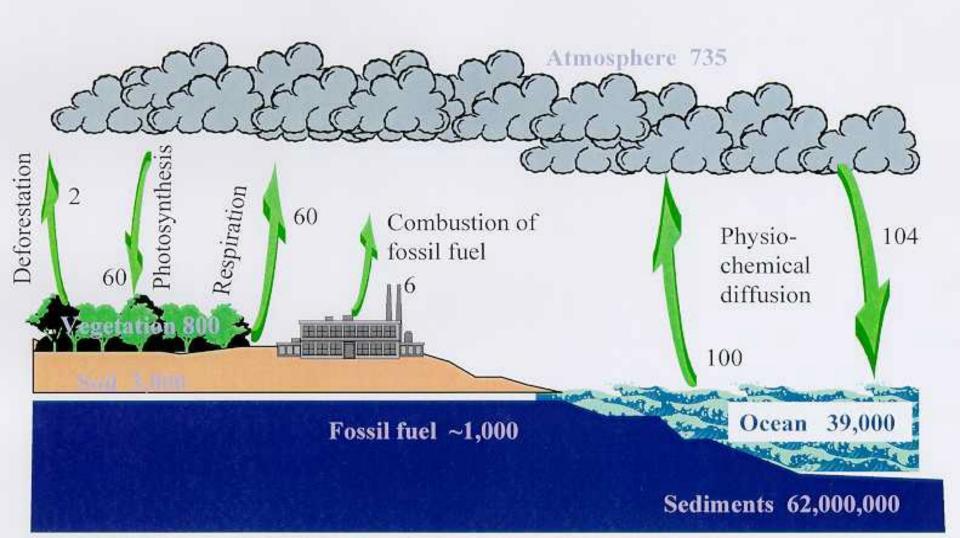






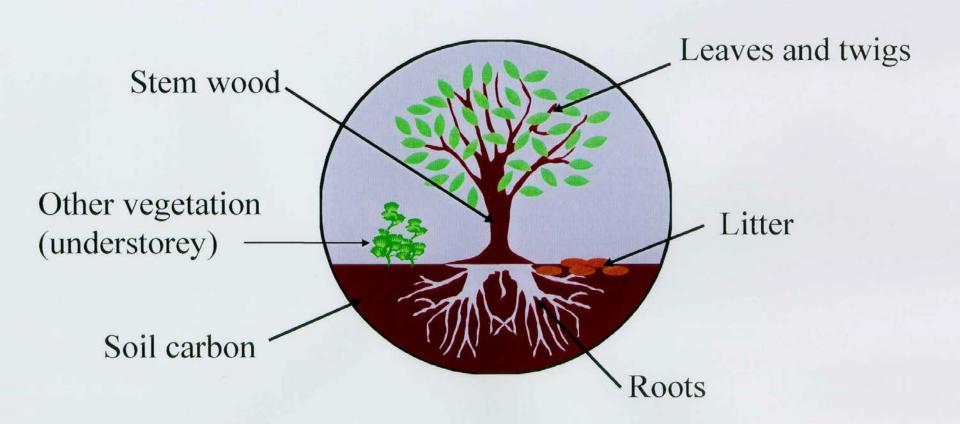


The carbon cycle





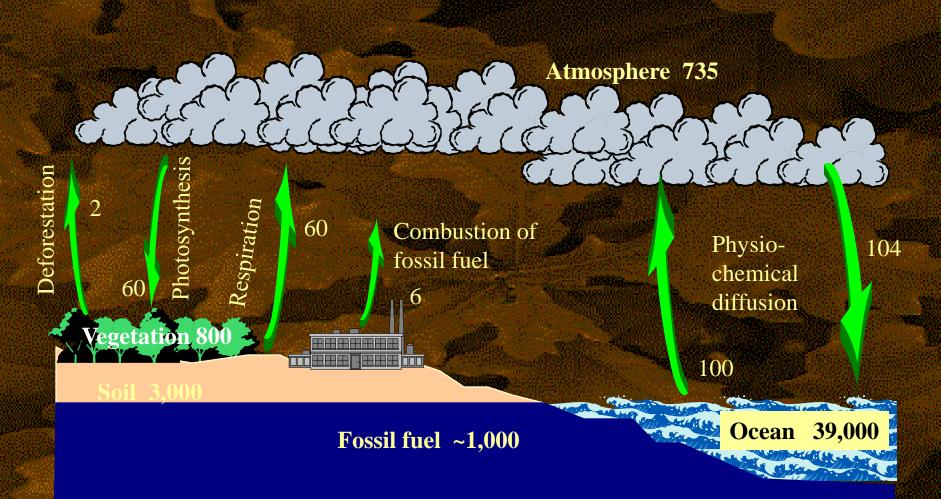
Major pools of forest carbon



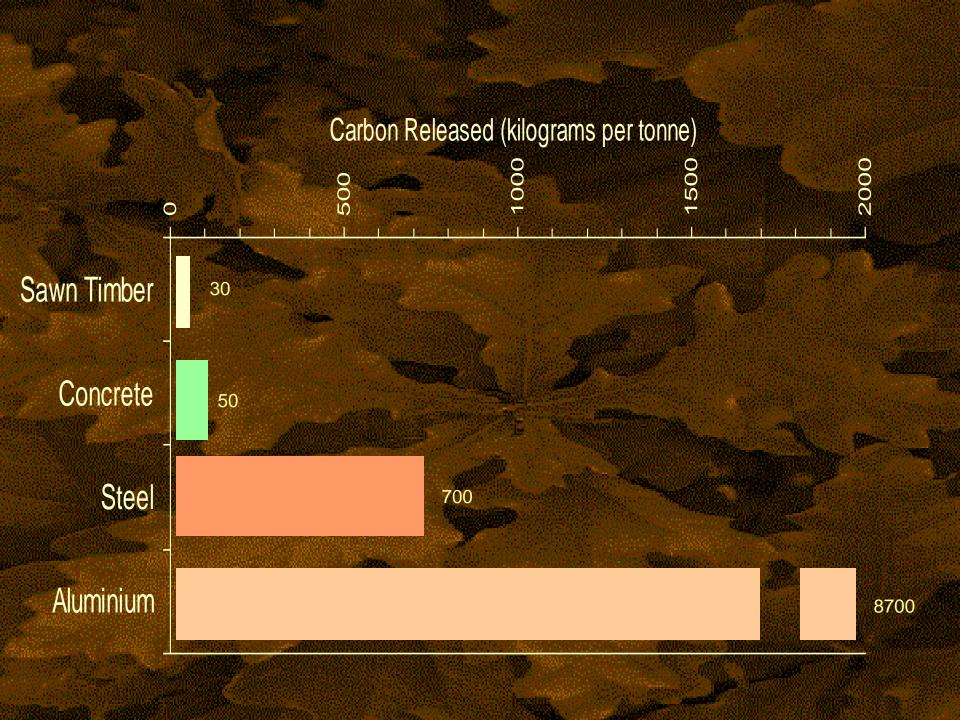




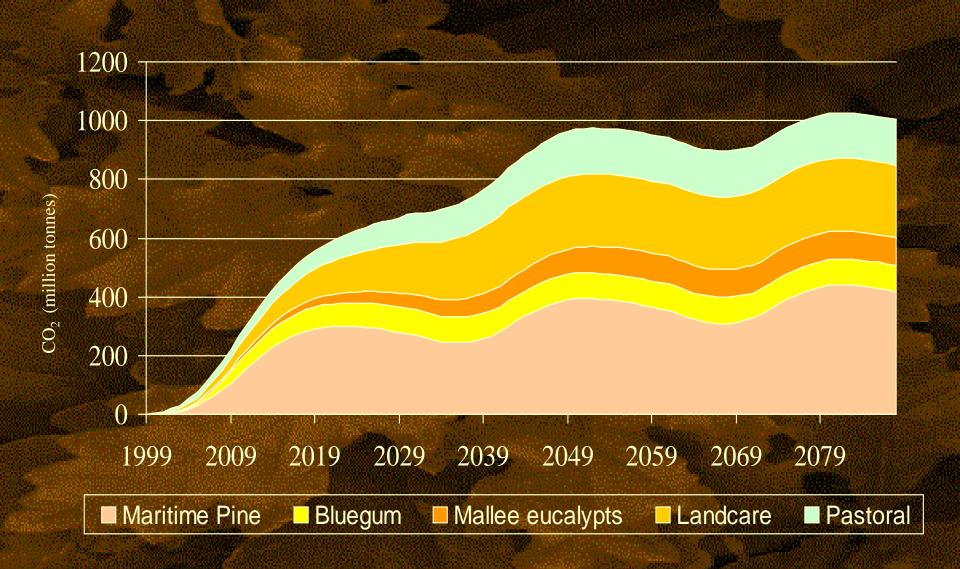
The Carbon Cycle

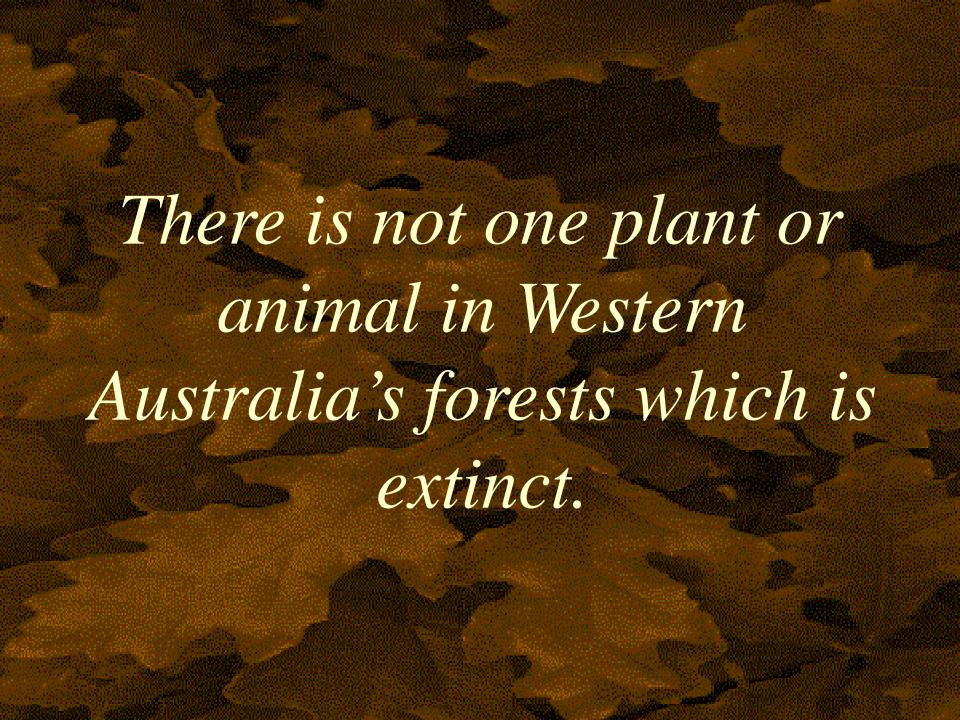


Sediments 62,000,000

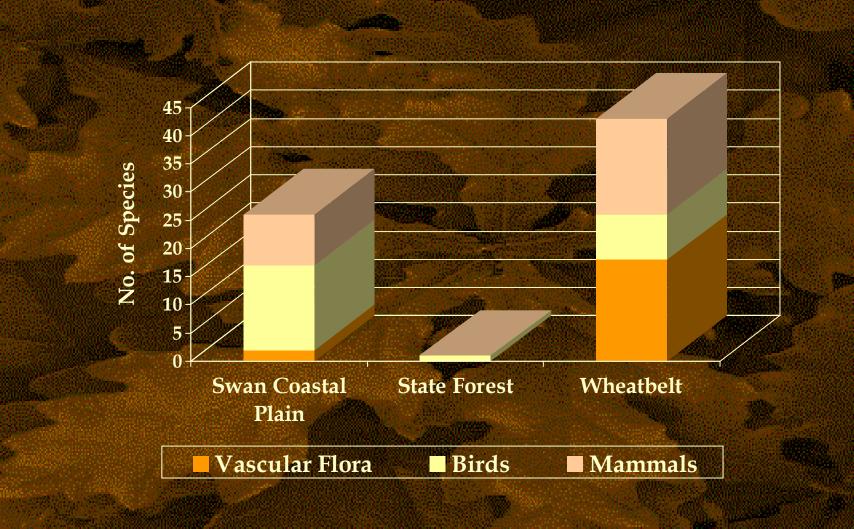


Cumulative CO₂ pool over 90 years



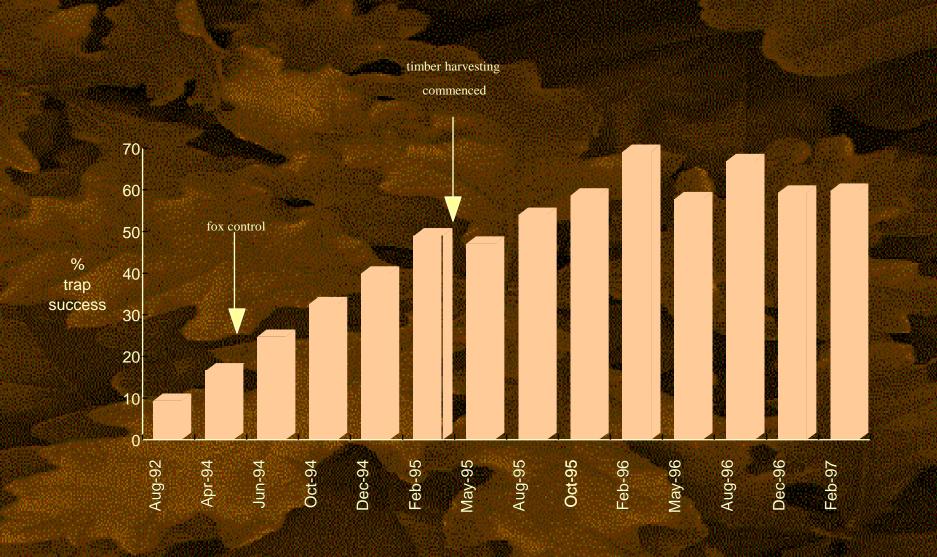


Species Extinctions Since European Settlement in 1829 (After Armstrong and Abbott, 1995)

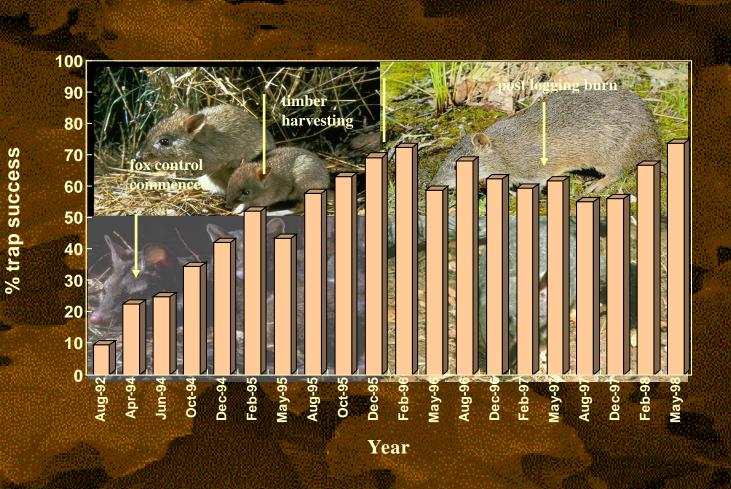




Kingston Timber Harvesting Study - Trap Success Rates for all Medium Sized Mammals along Road Transects



- Kingston Timber Harvesting Study -Trap Success Rates For All Medium Sized Mammals (Woylie, Quenda, Chuditch, Bt Possum) Along Road Transects

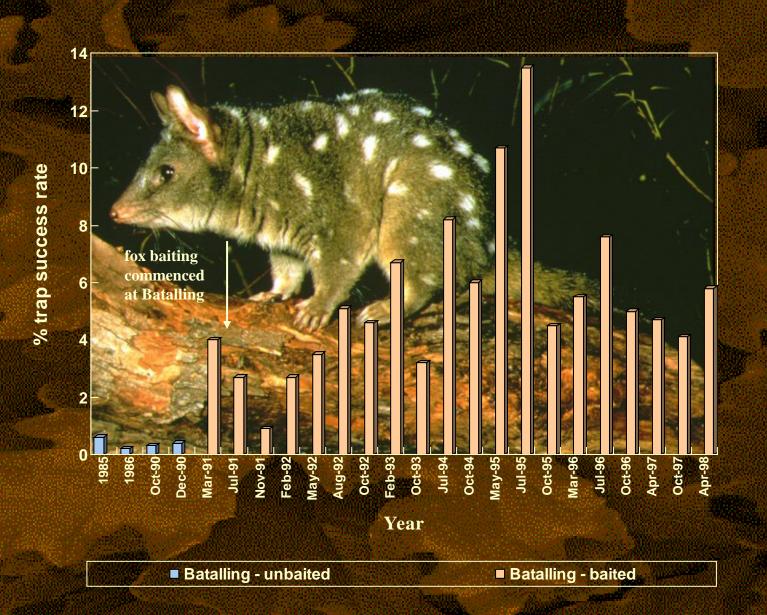


- Kingston Timber Harvesting Study - Trap Success Rates For Woylies Along Road Transects

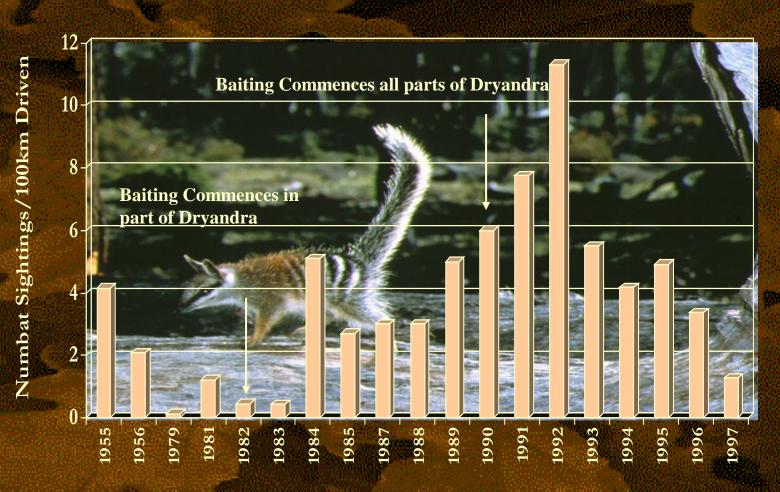


Year

The impact of fox control on Chuditch at Batalling forest

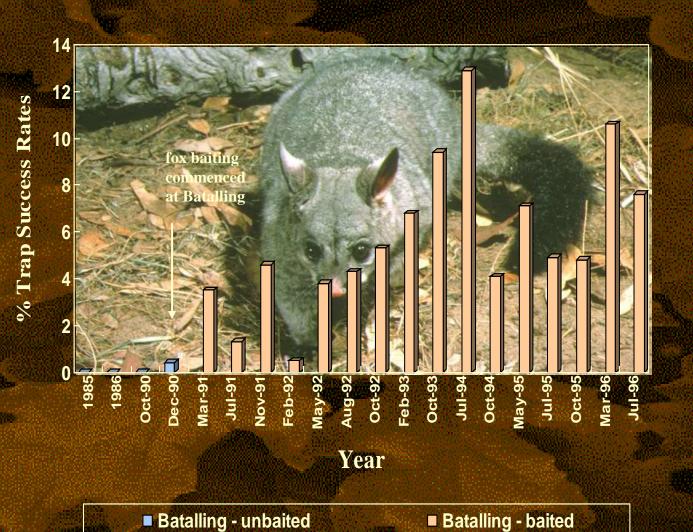


Numbat Sightings in Dryandra Forest



Year

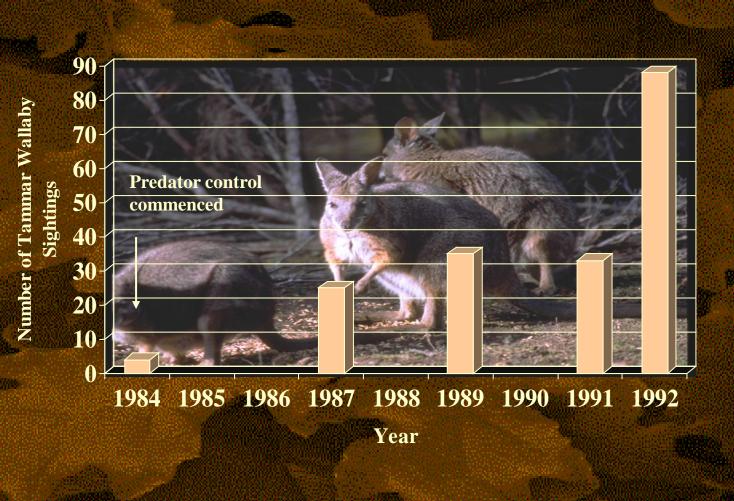
The impact of fox control on Brushtail Possum at Batalling forest



The impact of fox control on Quenda at Batalling forest



Tammar Wallaby Sightings (Tutanning Nature Reserve)



The entire publicly owned forests in Western Australia is being baited by CALM to control foxes.

Three forest dwelling animal species - the woylie, the tammar and the bandicoot - have been removed from the Endangered Species List in the last 18 months because of the success of the Western Shield feral animal control program.

Bibbulmun is on the wrong track

FEW peuple would disagree that a walk trail through the bush from Perth. to Albany is a great concept. Almost everyone likes the idea of entiring people muldoors to experience, at a walking pace, the special magic of WA's wonderful bush.

Cetting more people into the bush should also mean more people will want to protect it

And so the Bibbulmun Track was built and bas been in use for many years. Then came the idea of realigning the track.

This was seen as necessary because the original alignment followed too many reads and crossed or ran alongside areas that were devastated by road huilding, mining, logging or burning carried out with little regard for the track and its users.

The Department of Conservation and Land Management decided that the realigned track would be "purpose built" — it would not follow existing tracks but and it tracks but would be a new track specially constructed to give walkers a "wilderness experience".

This created a philosophical dilemma. In order to give people a wilderness experience in WA's natural environment, allouid the planners and

romean, silbuild the planners and makers of the realigned track degrade the enviroing tent?

Their aim for was yes.

In some places, previously intact bush has allew scar and new access for weeds, feld animals, plant diseases (expectally Phytophthora cinnamonu) and peoply—on foot, and, albeit diegally, margountain bikes, trait bikes, hurses are even pussibly 4WDs.

There is also a greater risk of wild-free.

There are inadequate resources to pay langers to monitor or pulses the track and yet the few unspoilt natural places in the South-West are even fewer and the pressures on them.

To altract people who want a ruol over their heads at night, it was deeded to construct shellers every 20km or

This sounds fine had again it has heen done at the expense of the enviconnects. Every one of these shelters becomes a focal point for environmen-(a) problems like soil compaction, erosion, human excreta and fires in the open, even if this is prohibited.

There are serious flaws in the

method of construction. The track runs through previously intact areas, some of which are tough going. No in comes the machinery, with all the attendant problems a light tractor and mower, a bohuar and even a small buildozer, which in places scraped bare a strip of earth three metres wide. All this to give people a wilderness

caperience! The response of those responsible is that in a year or two you will not see the damage. This is scarcely the attitude of informed conservationists

The track passes through several national parks but even a park like Walpnie-Nornalup, which supposedly has a legally bending management plan, is not safe. Although the management plan says that, where possible, walk trails will follow existing tracks, the realigned Ribbulmun Track delibcrately avoids them.

It cuts a swath through previously unroaded bush and even bush dexignateri as a special conservation zone.

There is a second philosophical dilemma. Should a purpose built track, created to give people a wilderness experience, avoid unsightly areas and thereby give a false impression of the Smith-West?

The planners and builders of the realigned track think so and walkers will not see minesites, clearfell coupes, gravel pits, cultapsed ecosystems or plots of eartics.

A 400m buffer strip will be retained along the track so that unpleasant sights will not spot! the experience.

The result is that the realigned Ribbulmun Track hadly misrepresents the reality of nor South-West bush and scems designed to create the illusion that all is well in the hush

The realigned Dibbulmun Track has been huilt and opened with great fan-

fare and maximum publicity On the surface, it looks great and anyone who dates question the dohions philosophy underlying it or the flaws at planning and construction can be portrayed as a wet blanket.

Unfortunately, once again percention has replaced reality, and it is our natural environment that has paul the

Beth Schultz

Dr Schultz is vice president of the Constitution Council

CALM sharefarming plan 'financial disaster': Shultz

THE Conservation and Land Management Department's new sharefaming scheme has been labelled a financial disaster for taxpayers.

Or Seth Shells, WA Conservation Council vicepresident, said the emergence of CALM as a commercial catrepreneur should set alarm bells making.

"CALM has shown it has listle business, sense, or commercial expession," Dr Shulta said

"For example, last year it sold most of the State's first grade karri sawtugs worth \$75 per cubic nettre for \$25 per cubic metre; and it was willing to sell first grade sawlogs to the big.

companies for loss than it gets from small sawmillers for second grade logs.

"Under the share-farming schome CALM offers farment annuities well above anything offered by commercial dempanies

. "How much is CALK; committing itself to pay out over the next 30 years and is this empent commercially justified? Has anyone cultified CALK tooked at the economics of the scheme?"

Or Shuitz sad the on the inforcation she had, the scheme would be a financial disaster for taxpayers.

The public has the right to

know about all this wheeling and cealing because in will have to foot the bill," the added.

"We were told WM inc was dead. It has been required on a green shrough."

In repty. CALM executive director, Dr SNG Sign said he wondered what his department had to so to existly Dr Shultz.

"Or Shultz's major purpose in life seems to be kneeking CALM," Or Sheb add.

the accused Dr Shutgrof ignoring the fact CALAI had planted 13 million bees on cleared agricultural hand.

"In addition to the proven huge exanomic impact the scheme will have a big impact on the environment." Dr Shipa said.

"The scheme has been subject to detailed analysis from sources outside the industry and so far \$2 million has been injected from the private sector."

Dr Shee said that on the one hand Dr Shukz wanted to reworse environmental degradaion yet on the other she was critical of CALM's conservation.

Yet, he said, CALM's scheme would reverse degradation of hard-woods.

"I and I am sure many Souds Western Times readers, are tired of Dr Stailtz's personal examples of denigration soft with the would move onto tempthing else."

Forest walks project comes under attack



Tourism industry criticises Valley of the Giants project

THE Department of Conservation-and Land Management has been further criticised by the local tourism industry over THE cost of creaits Valley of the Giants forest new tourism facilities

elephone survey was about after repeated quer CALM's possible foray into busi. ing of the Departme Conservation and

pier at the suggestion of Giantsprotest

plan scrapped

CALM ventures condemned the Valley of the Gi WALPOLE tourist operators have called on the Department of Conservation and to contamily develop it. But cleans might indicate a time for contamily develop it. But cleans might indicate a time for a resistance or care or might indicate a time for a resistance or care or might in the form. Senting CALM research research research care with the form of the form. Senting formity was built in the court of forest has been reve

e conninercial vantures

are conninercial vantures

for force of f

conjections with an every attention and the organiza-call would not should not be involved in content bute variouse which had little to do other bus- recovers which has time to our tradectors, with its observer of protecting the

ness. Mr Mer said.

When made of CALM was, names y hyparic, no associated with the consideration of the control is esteathed to re-cape considering apparature as a fraction of his with new treesing considering apparature as a fraction of his will new treesing considering apparature as a fraction of his will be approximated as the financial and the state of the s

walk in the

al businesses ties have been

ess forest " woman Marle sted the project

and for the area d not know abou

surrounding area.

Forest project attacked

It is not the critic who counts, nor the man who points out how the strong man stumbled, or where the doer of deeds could have done better. The credit belongs to the man who is actually in the arena; whose face is marred by dust and sweat and blood; who strives valiantly; who errs and comes short again and again; who knows great enthusiasms, great devotions, who spends himself in worthy cause; who, at the worst, if he fails at least fails while daring greatly, so that his place shall never be with those cold and timid souls who know neither victory nor defeat.

Ouoted from

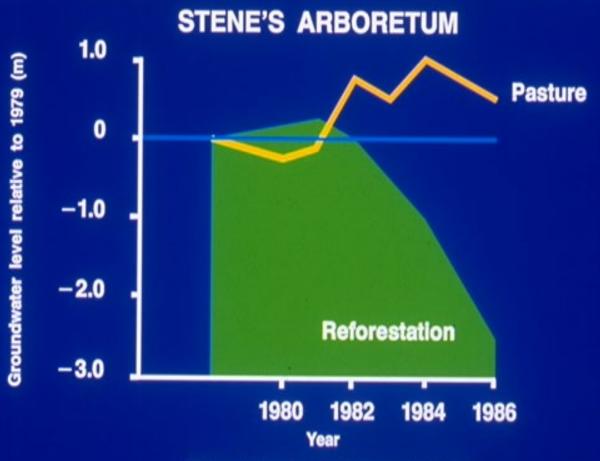
John S D Eisenhower, The Bitter Woods (1969)

and attributed to Theodore Roosevelt





THE EFFECT OF TREE CROPS ON WATER TABLE LEVELS



Water Authority of Western Australia
July 1989
Report No. WS 33

