Integration - the key to addressing Western Australia's nature conservation problems

Address by

Dr Syd Shea

Executive Director

Department of Conservation and Land Management

to

Royal Society of Western Australia Perth, 17 November 1997







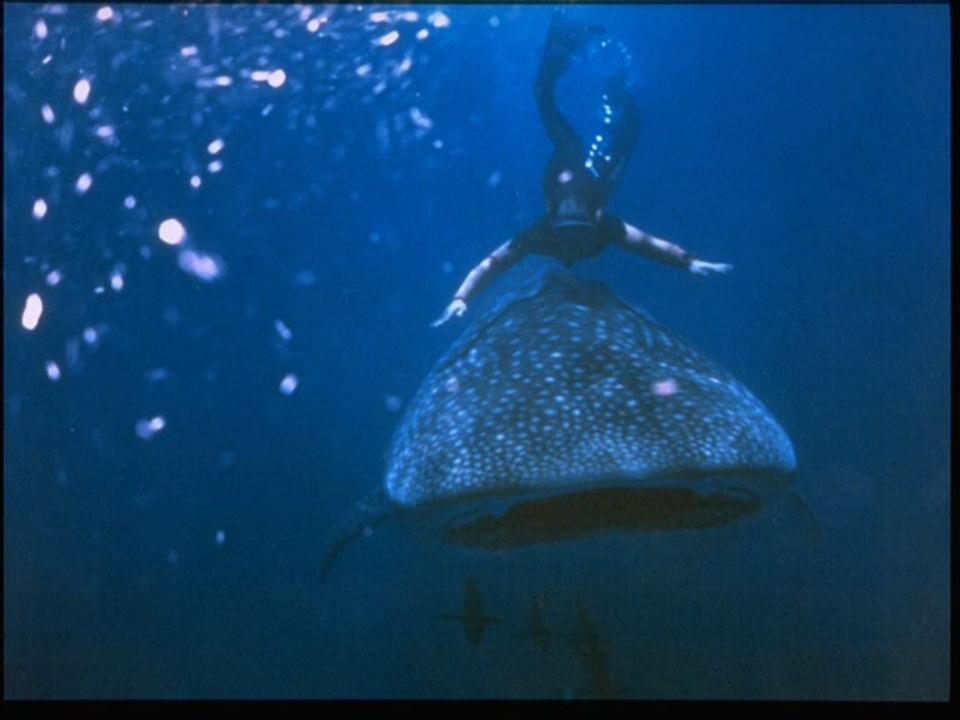












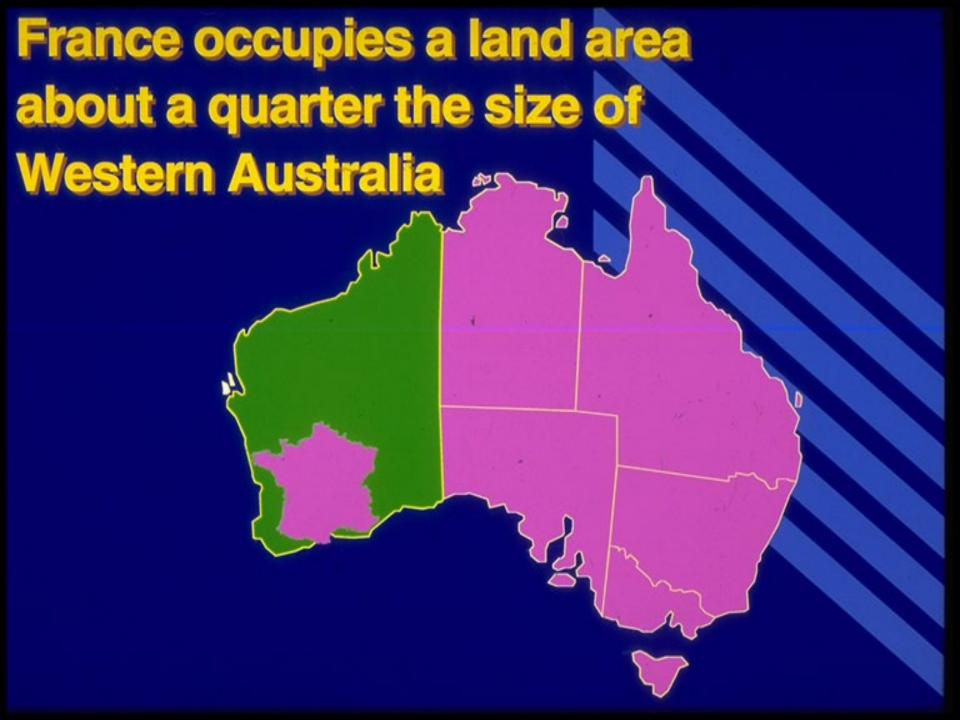










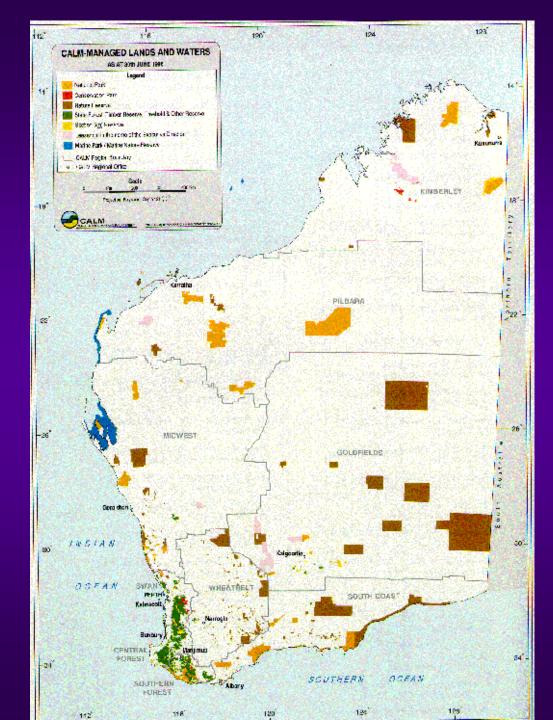


CALM manages a land area 51% the size of Japan

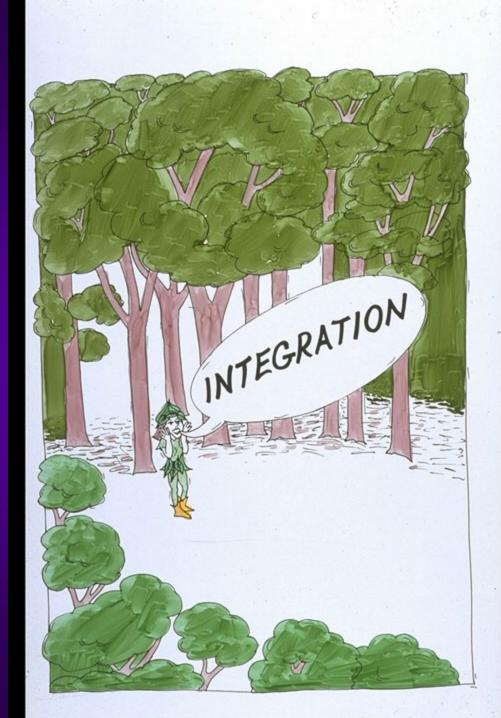




CALM managed lands and waters







Integration



The community owns the land but there are many constituencies

Expenditure and revenue on conservation and land management

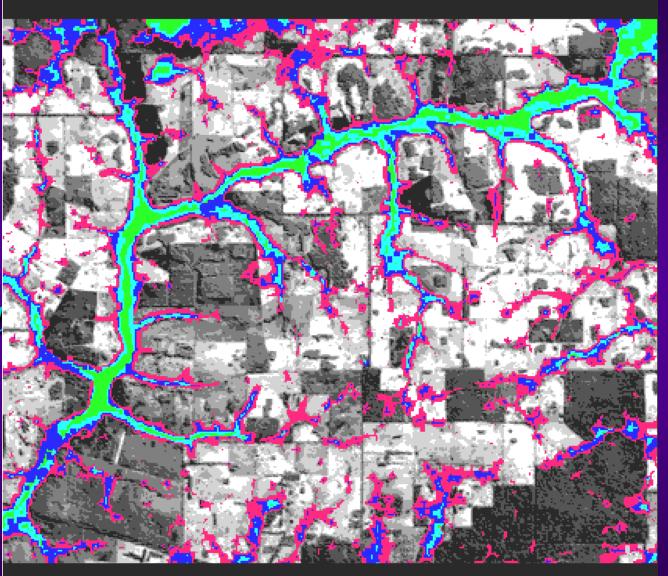


Figure 5





Satellite imagery a salinity







DISTRIBUTION OF THE EUROPEAN FOX



Absent from Tasmania

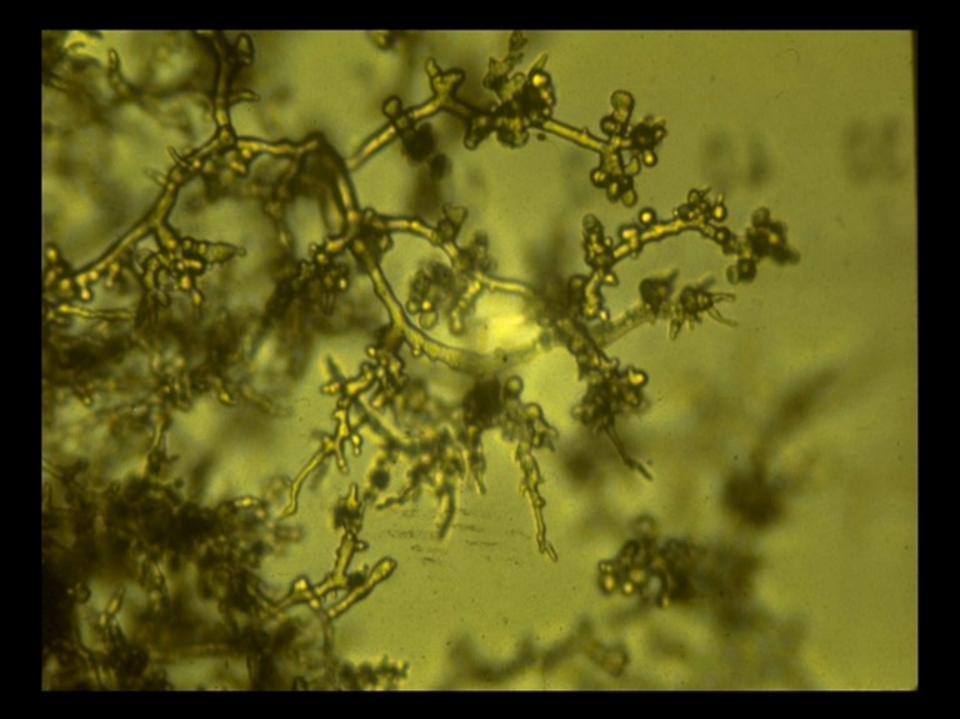
















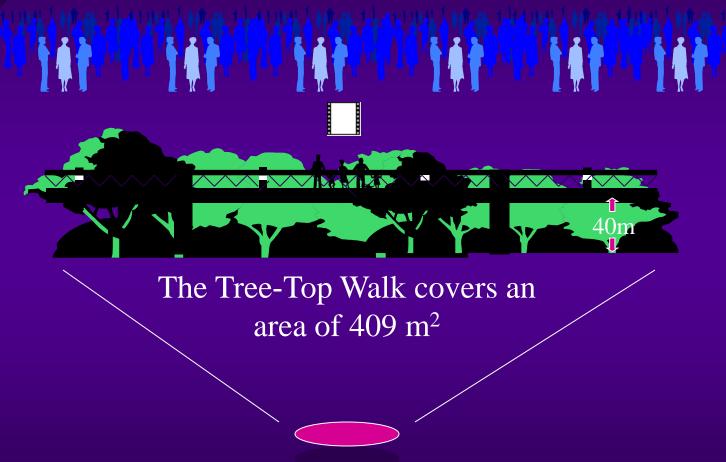






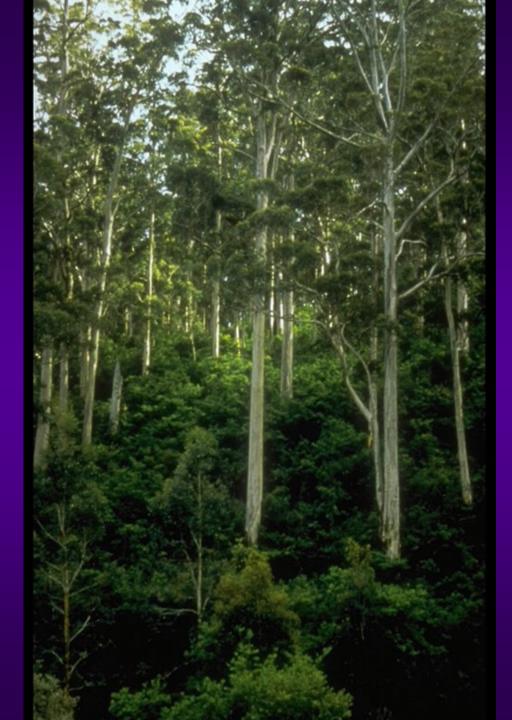


200,000 people have visited the Tree Top Walk since it opened in September 1996



7 square metres of land were used to support the Tree Top Walk







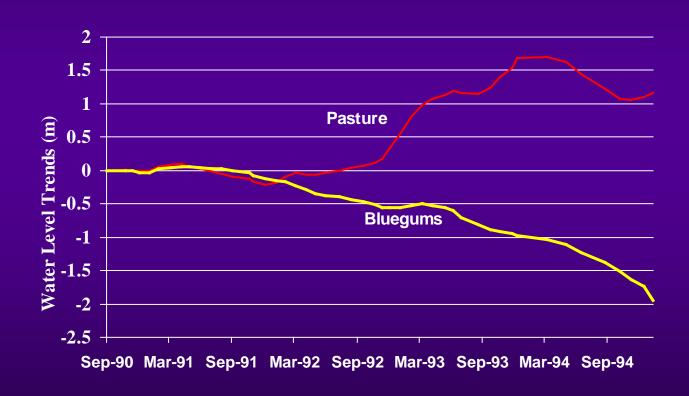
Native forests in the South West

- 80 per cent of the original karri forest and 71 per cent of the original jarrah forest remain today
- 512,000 hectares of jarrah and 81,000 hectares of karri are in reserves protected from logging
- 46 per cent of the karri forest and 33 per cent of the jarrah forest are set aside in conservation reserves
- A minimum of 40% of the karri forest will retained in the old growth stage

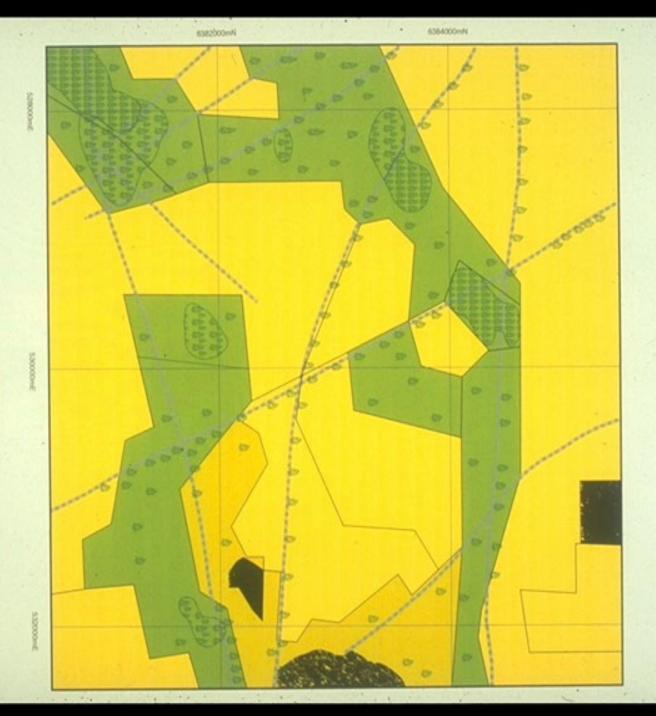


Management is the answer

Water Drawdown under Bluegum Plantations compared to Pasture







WORLD GEOSCIENCE CORPORATION LIMITED

FARM MANAGEMENT PLAN
BASED ON GEOPHYSICAL DATA

VERY DENSE EUCALYPTUS 25-50m ROWS

LESS DENSE EUCALYPTUS 16/ha

WERE SPREAD ENCALYPTUS 8/ha AND

PASTURE AND CROPPING

EUCALYPTUS AND PERENNIAL PASTURE

NATURAL VEGATATION

AXES OF DOLERITE DYKE







TUTANNING NATURE RESERVE Bettongia Percentage Capture Rate Pre Fox Control

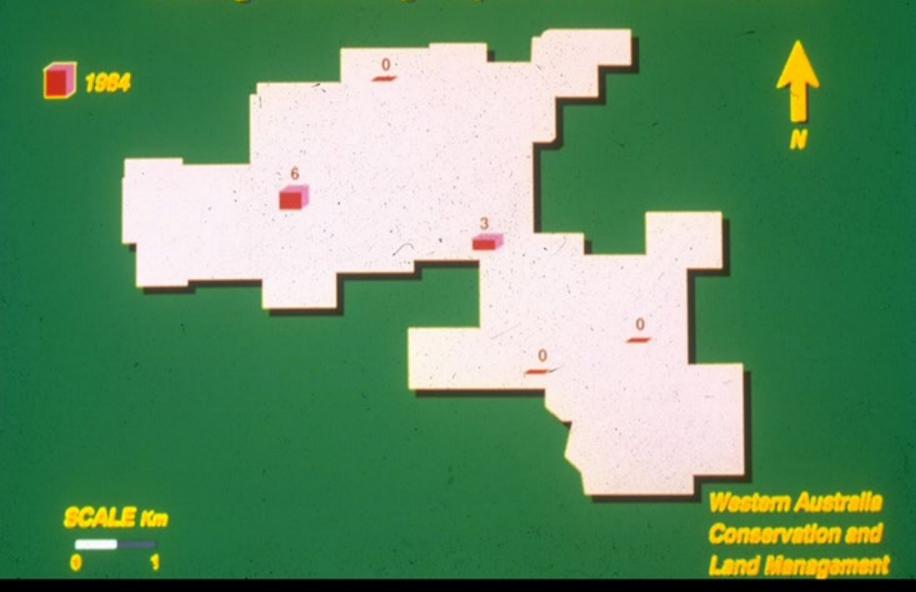
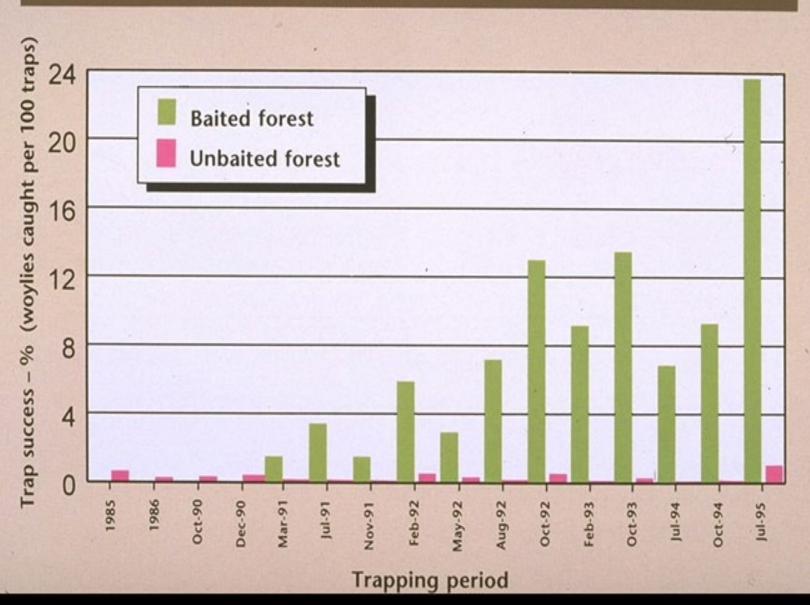


Figure 2

WOYLIE CAPTURE RATE (5 Years of Fox Control)

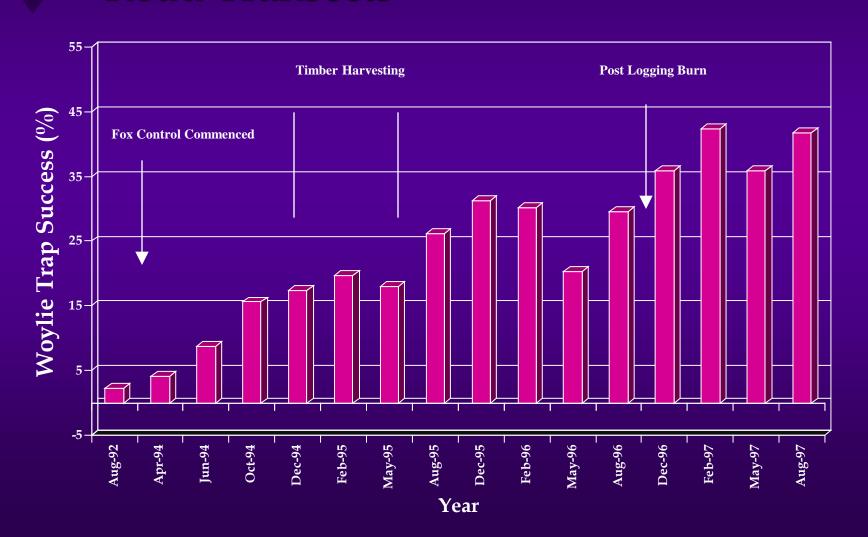


MEAN DAILY TRAP SUCCESS RATES(%) OF WOYLIES IN BAITED AND UNBAITED JARRAH FOREST





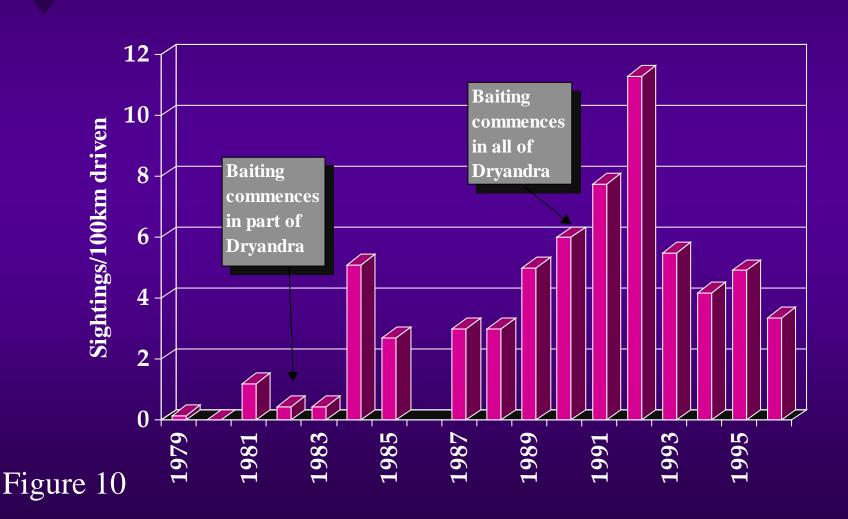
Kingston Timber Harvesting Study Trap Success Rates For Woylies Along Road Transects







Numbat Sightings in Dryandra Forest

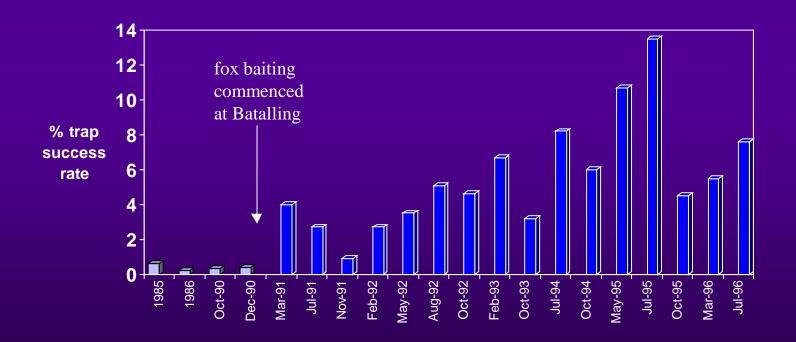






The impact of fox control on Chuditch at Batalling forest

- Batalling unbaited
- Batalling baited



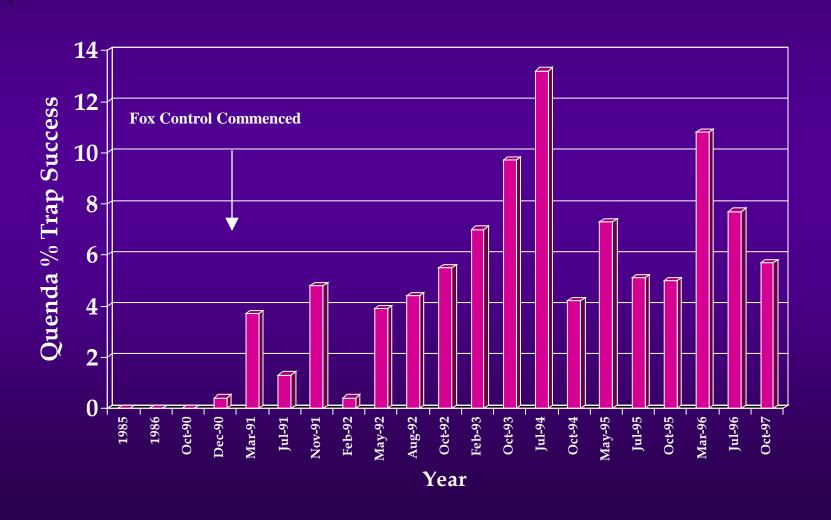
Chuditch Recovery - Translocation To Julimar Conservation Park







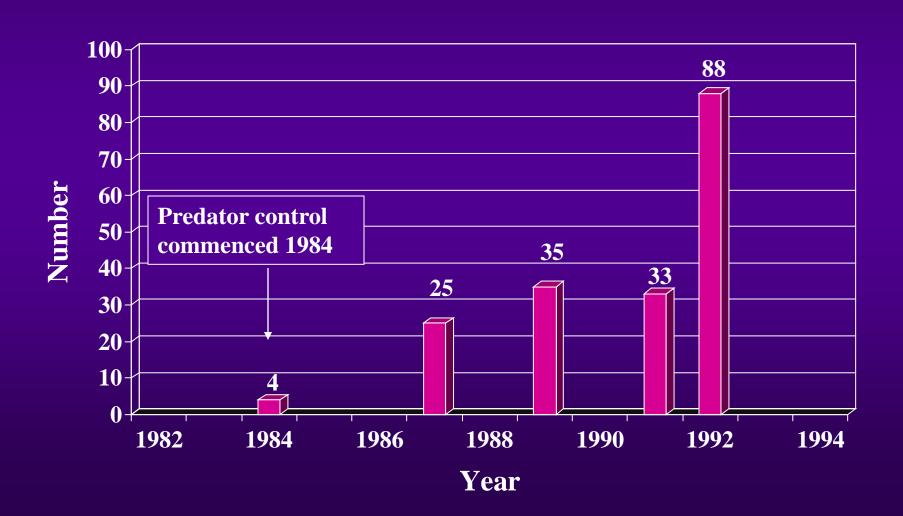
Brushtail Possum Response To Fox Control- Batalling Forest Block





Tutanning Nature Reserve

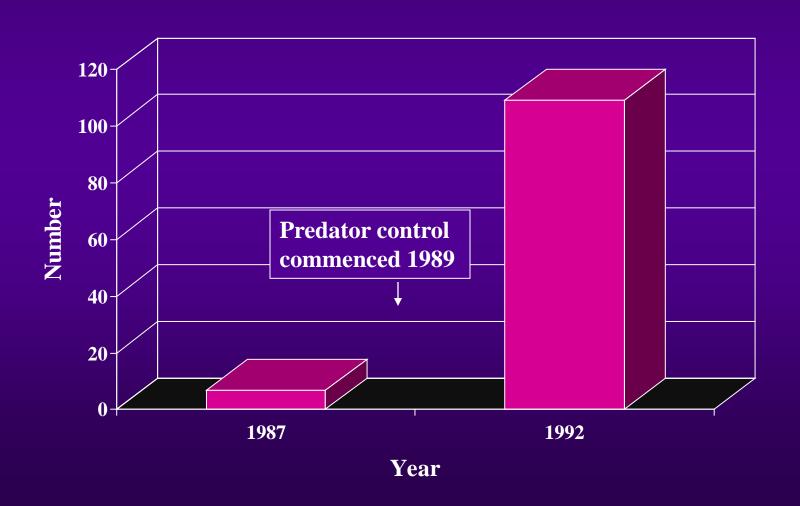
Tammar Wallaby Sightings (Standardised Spotlight Traverses)



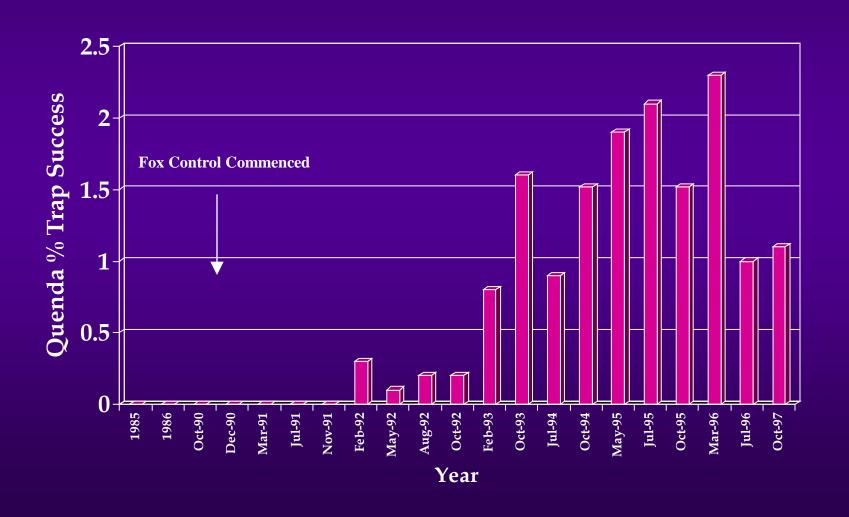


Tutanning Nature Reserve Annex

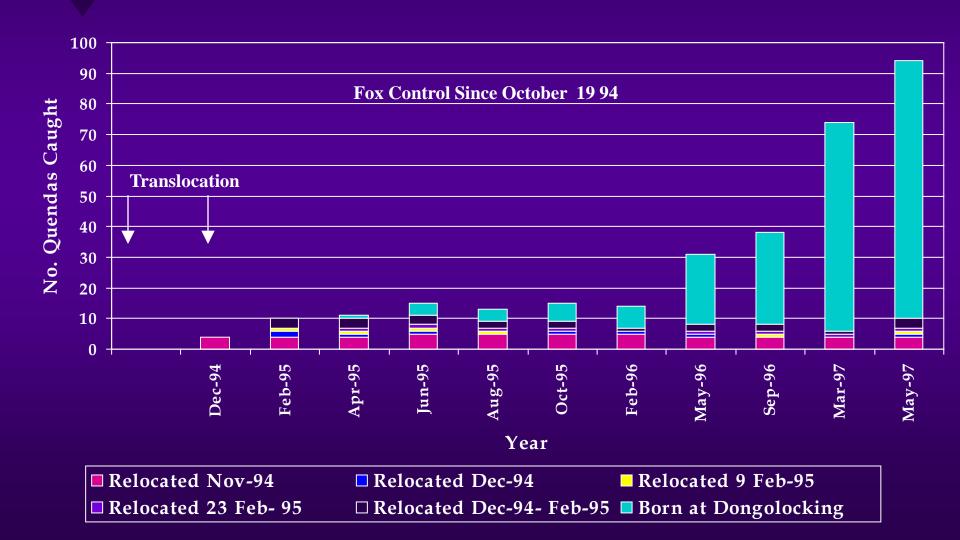
Tammar Wallaby Sightings (Standardised Spotlight Traverses)



Quenda Response To Fox Control-Batalling Forest Block



Quendas caught at Dongolocking Translocated Population





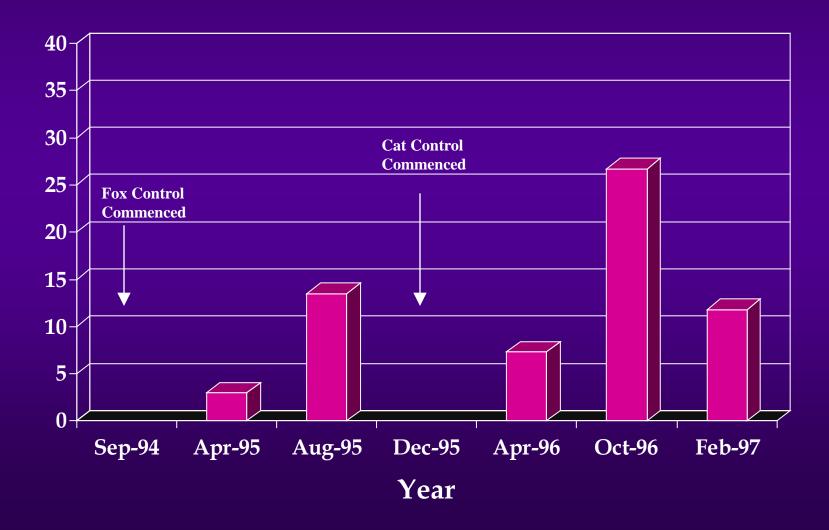






Project Eden- Small Mammal Trap Success On Peron Peninsula







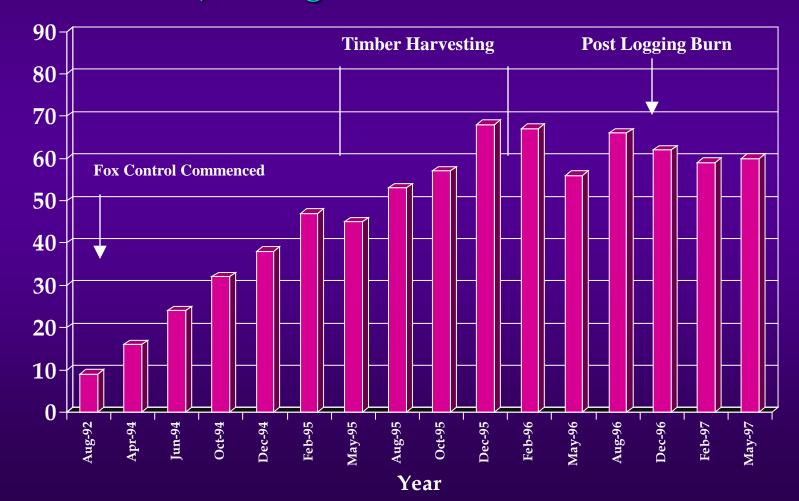






% Trap Success

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



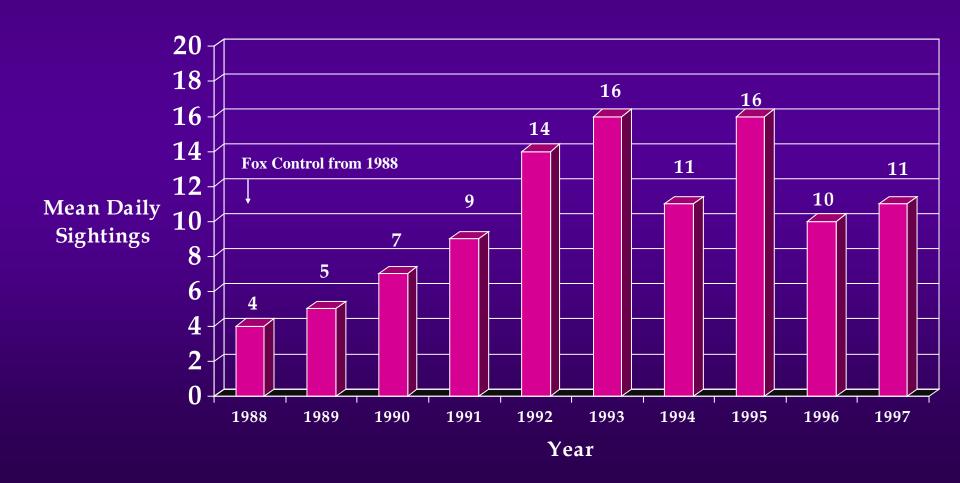






Rock-Wallaby Sightings Yardie Creek 1998-97

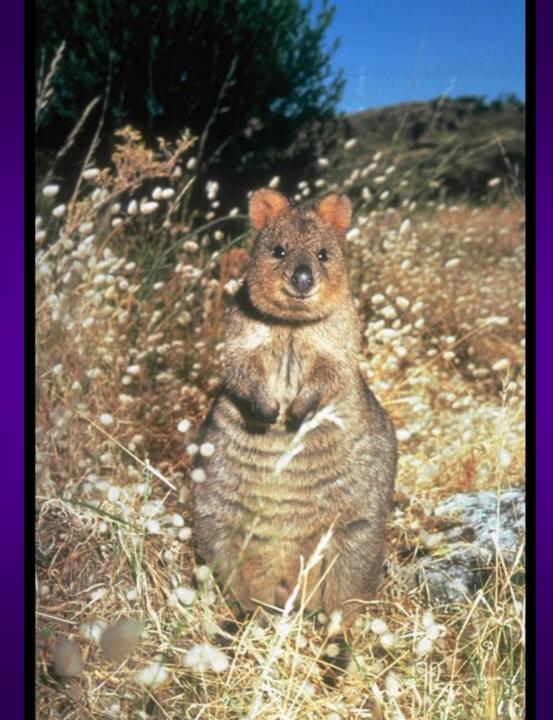
Average Number of Wallaby Sightings by Ecotourism Operators





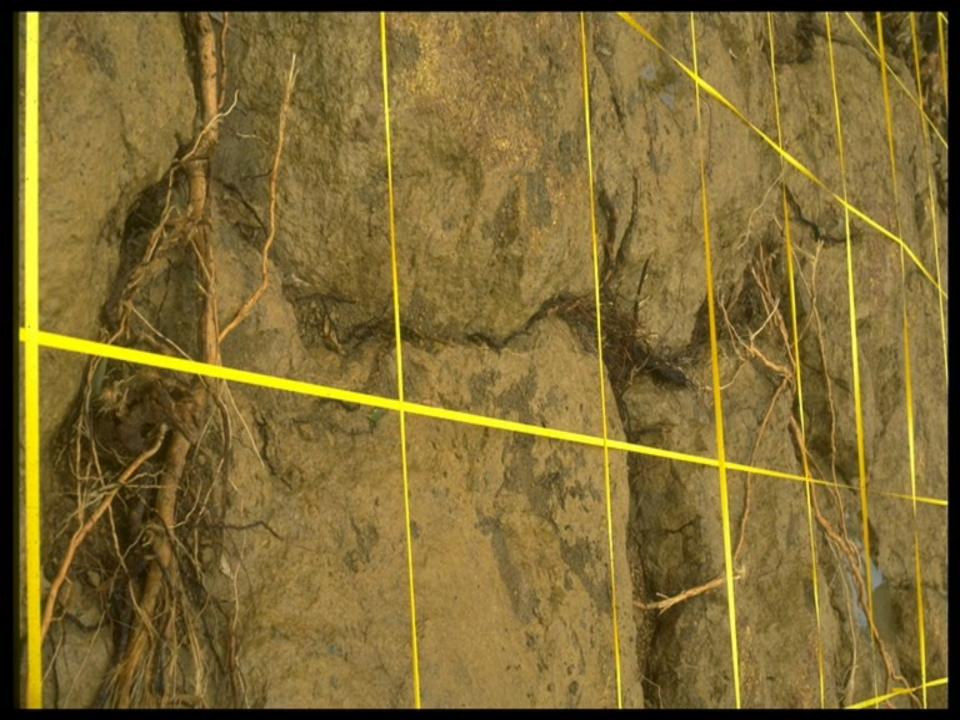


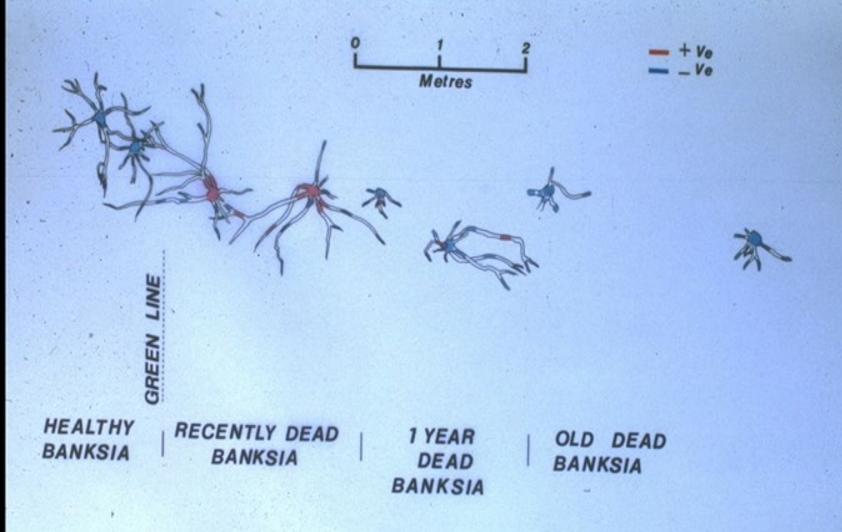




















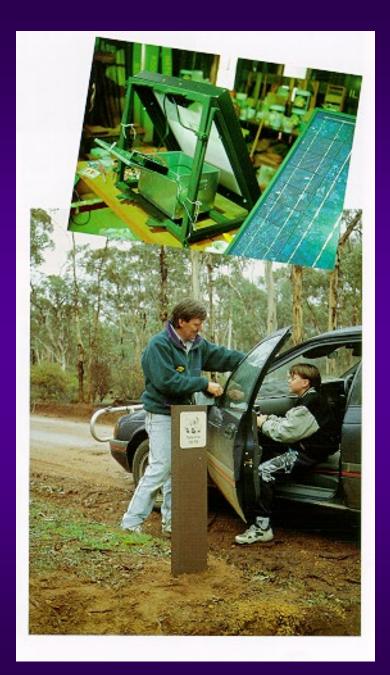


CALM's "Bush Book" series



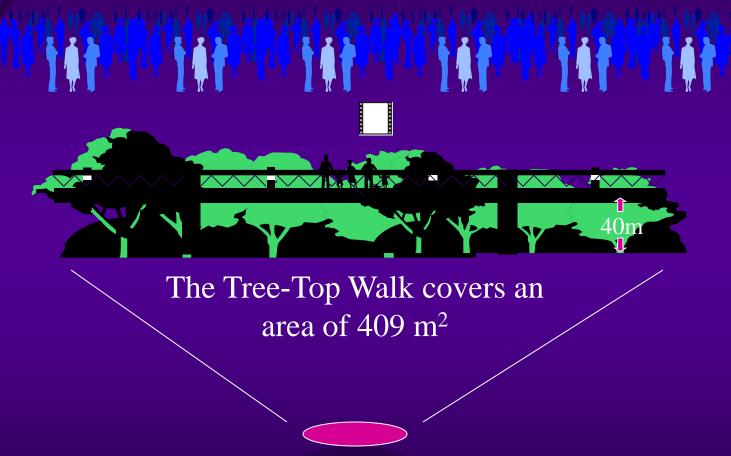


Dryandra takes to the airways





200,000 people have visited the Tree Top Walk since it opened in September 1996



7 square metres of land were used to support the Tree Top Walk

* 12 months after opening the Tree Top Walk

- Tourist visitors to Walpole have doubled
- Six new accommodation outlets have opened
- A 35-room motel is under construction
- □ 200,000 people have visited the Walk

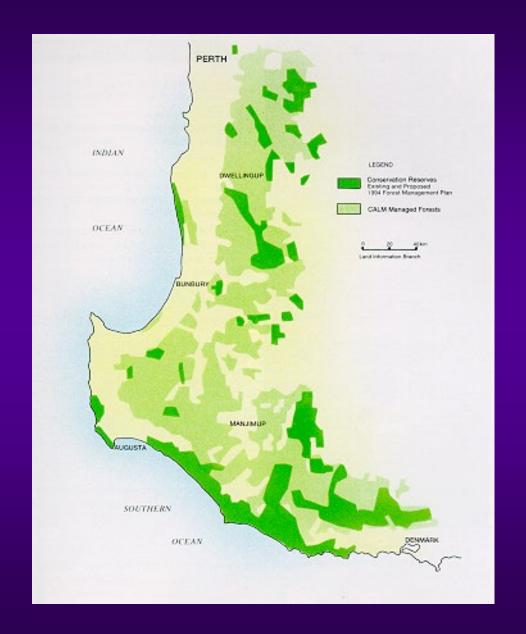


"...We did not during our voyage pass a more dull and interesting time...Everywhere we found the soil sandy, and very poor... The general bright green colour of the brushwood and other plants, viewed from a distance, seemed to promise fertility. A single walk, however, was enough to dispel such an illusion; and he who thinks with me will never wish to walk again in so uninviting a country".

> Charles Darwin 1836 [Albany]

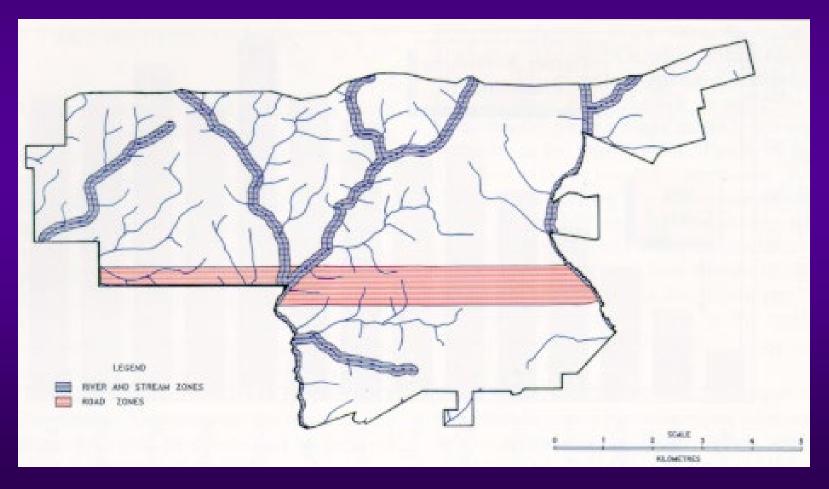


CALM
managed
lands and
waters in the
South West



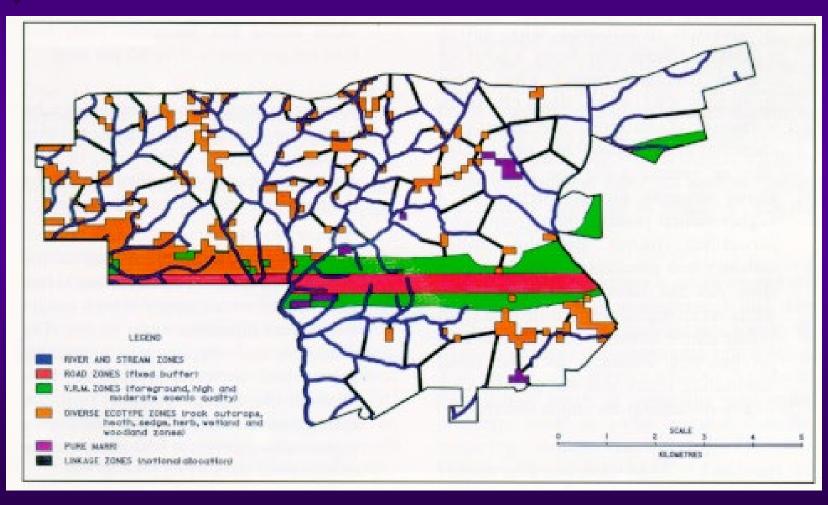


Distribution of road, river, stream and other zones, Jane Forest Block, Pemberton District, prior to 1994





Distribution of road, river, stream and other zones, Jane Forest Block, Pemberton District in the 1994 Management Plan



THE WHALE SHARK EXPERIENCE PASS

NINGALOO MARINE PARK

NOT TRANSFERABLE

WST-0001

Ticket Number

Adult/Child

Cross out whichever is not applicable

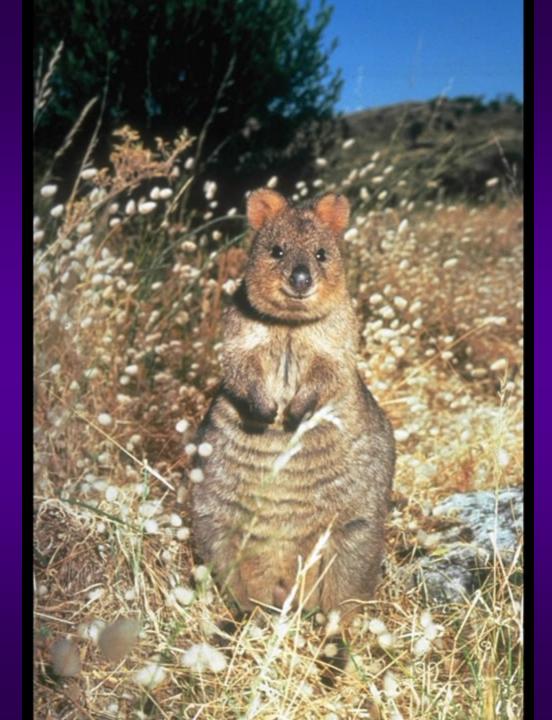
Valid only for date shown in box TO - PIP O'DELL



Department of Conservation and Land Management







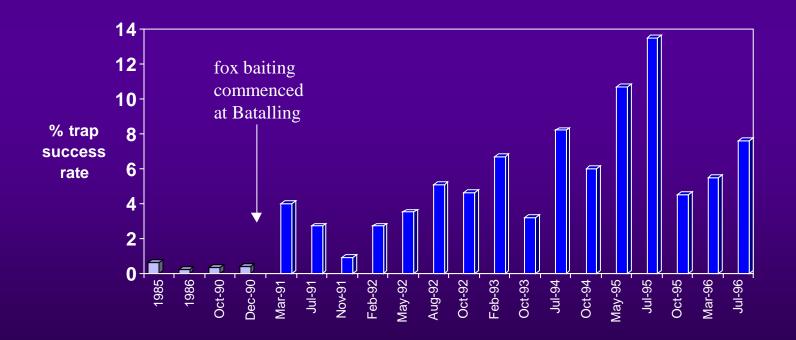






The impact of fox control on Chuditch at Batalling forest

- Batalling unbaited
- Batalling baited











CALM's "Bush Book" series







Forest walks project comes under attack



Tourism industry criticises Valley of the Giants project CALM Ventures

THE Department of Conservation and Land Management has been further criticised by the local tourism industry over THE cost of creat its Valley of the Giants forest new tourism facilitie project.

roject. The rain once rained during a forest has been reviseblees survey was about after repeated questically possible foray into busical wentures.

Gianus protest plan scrapped

condemned

WALPOLE fourige operators

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Land Management flow to pursue commercial venture and the commercial ventur the is scheduled to mopes. When asked if CALM was a series beared with powers if of layer with new money of the control of layer with the money of the control of layer when t

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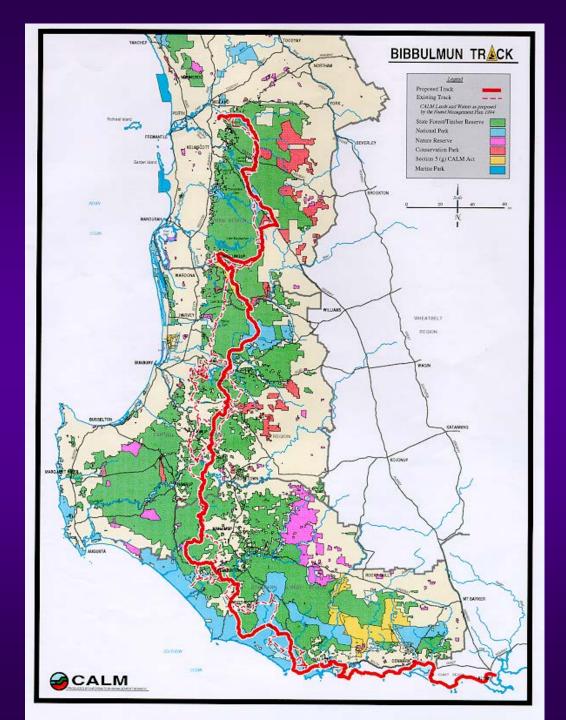
Forest project attacked

* 12 months after opening the Tree Top Walk

- Tourist visitors to Walpole have doubled
- Six new accommodation outlets have opened
- A 35-room motel is under construction
- □ 200,000 people have visited the Walk
- □ \$1 million revenue generated



The Bibbulmun Track



CALM's Mission

To conserve Western Australia's wildlife and manage lands and waters entrusted to the Department for the benefit of present and future generations





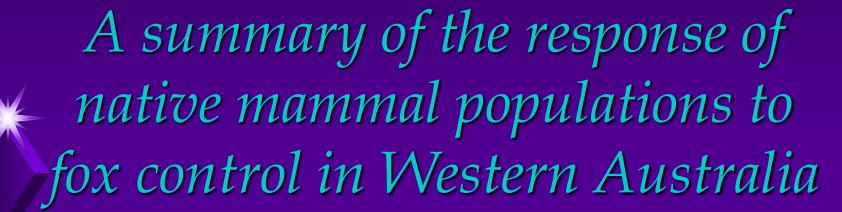


DNA
technology
and
conservation



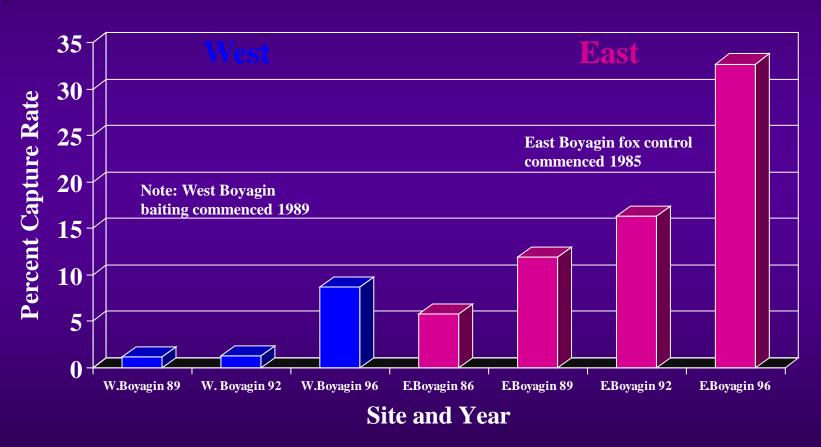
The effect of timber harvesting on mammal populations in the jarrah forest







Brush-Tailed Possum Success Rate East & West Boyagin Nature Reserves



Tutanning Nature Reserve

Brush-Tail Possum Sightings (Standardised Spotlight Traverses)



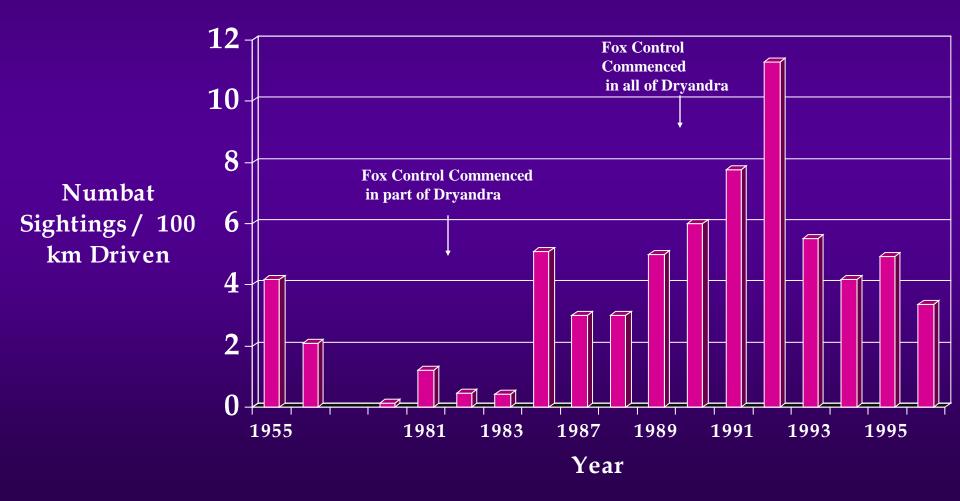


Dampier Archipelago Rock-Wallaby Sightings (Standardised Traverses)



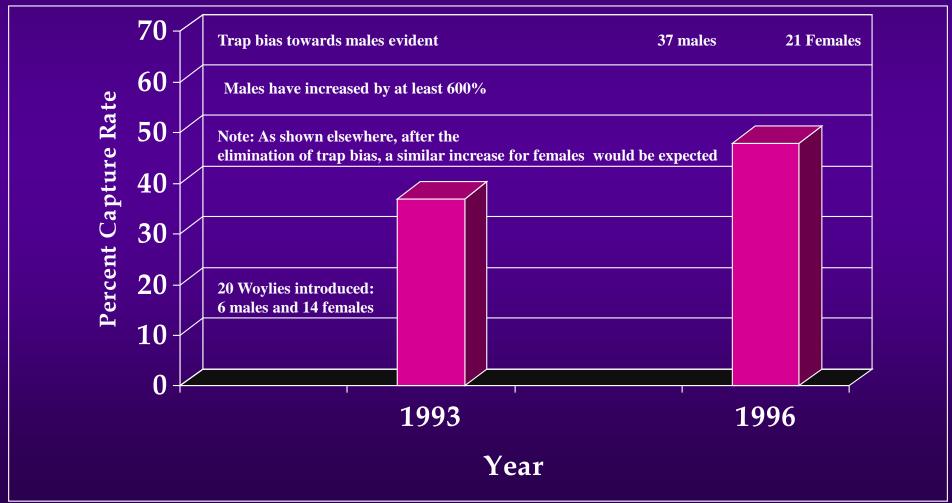


Numbat Response to Fox Control-Dryandra Woodland



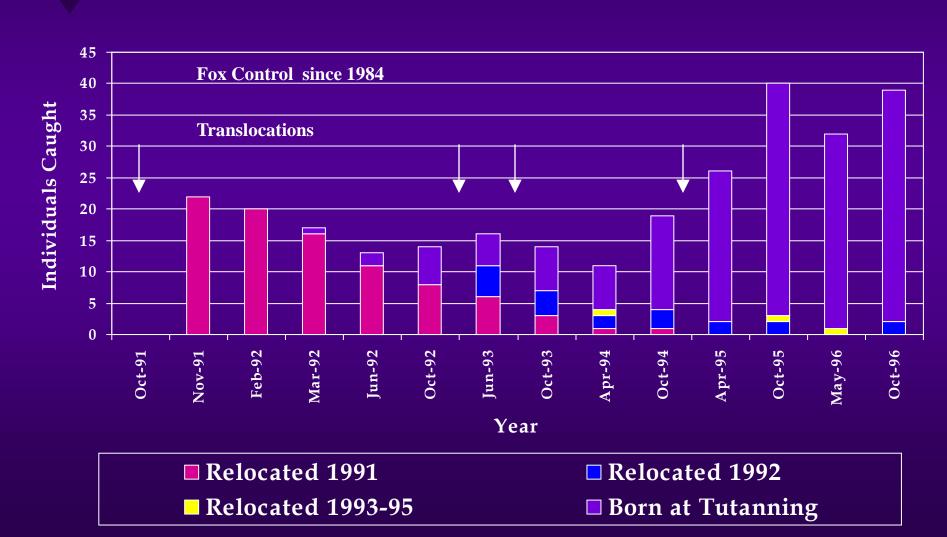


West Boyagin Trap Success Rate Woylies Introduced in 1993



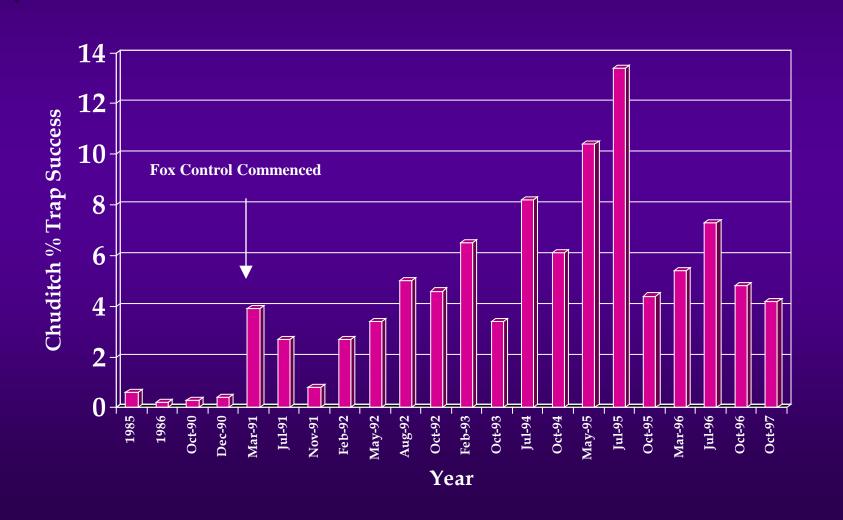


Quendas caught at Tutanning at October 1991 release sites

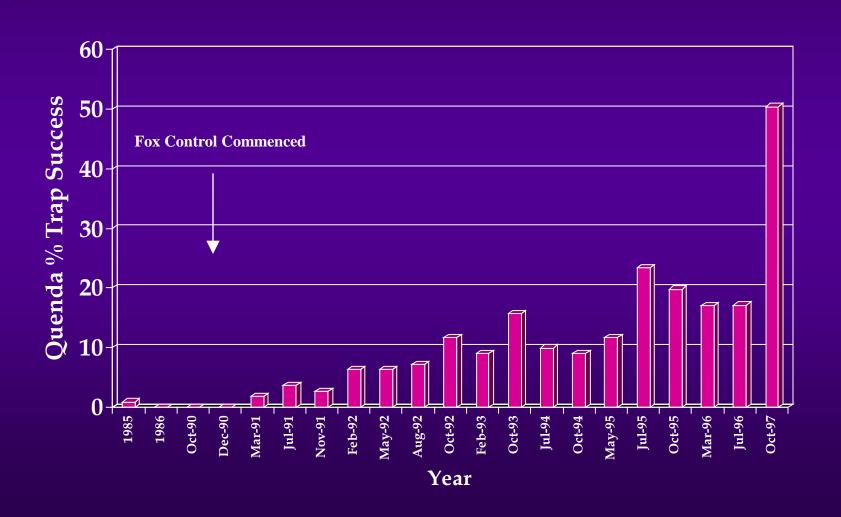




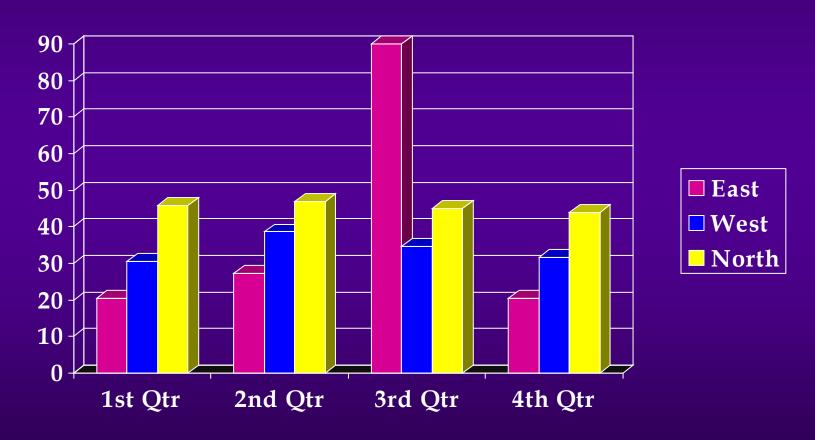
Chuditch Recovery - Response To Fox Control In Batalling Forest Block



Woylie Response To Fox Control-Batalling Forest Block







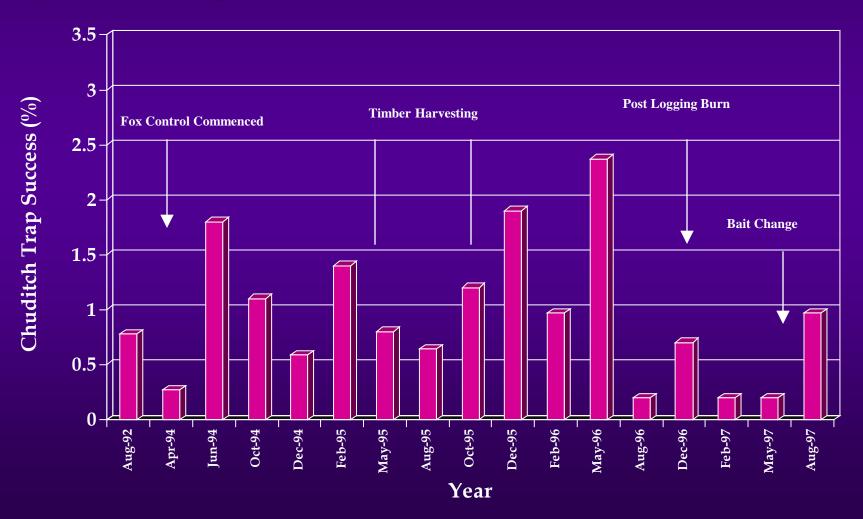


Project Eden - Track Counts of Euro and Echidna On Peron Peninsula



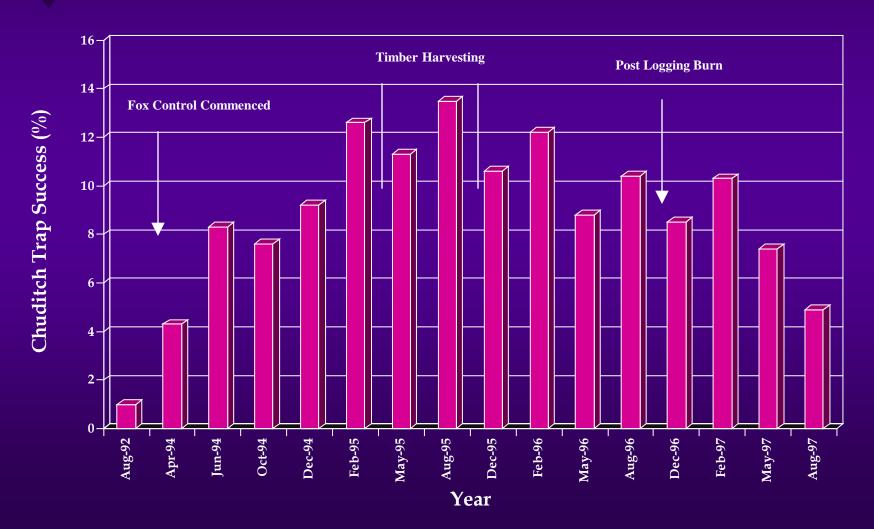
Project Eden - Cat Track Counts On Peron Peninsula

Kingston Timber Harvesting Study Trap Success Rates For Chuditch Along Road Transects





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



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

