

**NATIONAL
RAINFOREST
CONSERVATION
PROGRAM**

**Individual Project Reports
Volume 2- Projects N41-N85**



Dorrigo Rainforest Centre

Dorrigo National Park



N S W
NATIONAL
PARKS AND
WILDLIFE
SERVICE

NATIONAL RAINFOREST CONSERVATION PROGRAM

PROJECT TITLE: Rainforest Interpretative Centre, Dorrigo National Park

COMMONWEALTH I.D.: N41

STATE PROJECT CODE: 0629

PROJECT CATEGORY: Interpretative and Visitor Facilities

LOCATION: Dorrigo National Park via Coffs Harbour

DISTRICT: Dorrigo

LAND TENURE: National Park

PROJECT OBJECTIVES:

To increase public appreciation of rainforest observation by capitalising on the high level of visitation to Dorrigo National Park, in particular, tourist visitation.

COMMUNITY BENEFIT:

New educational and tourist facilities.

PROJECT DESCRIPTION:

Dorrigo National Park is a long established rainforest park which is readily accessible and receives a comparatively high visitation. A small park display (rainforest emphasis) is presently located at the park entrance.

A new rainforest centre will be constructed at the junction of the Dome Road and Lyrebird Lane approximately 1km north of the Glade.

This site is on the edge of the Park and was cleared prior to being added to the park.

The Centre will provide display areas, lecture/theatre facilities, public contact areas, and will be designed for bus groups both school and tourist groups.

The associated picnic and parking areas will help reduce visitation pressure on the remnant basalt rainforest areas surrounding the Glade. This is an upgraded project that will be heavily supported by Service staff and direct funding.

STATUS OF PROJECT: Complete

PROGRESS OF PROJECT:

Anticipated starting date: late 1987

Actual starting date: early 1988

Expected completion date: June 1989

Actual completion date: December 1990

ACHIEVEMENT OF OBJECTIVES: Objectives were achieved.

OUTLINE ANY CHANGES IN PROJECT CONTENT:

No changes to original project content.

AUTHORITY FOR CHANGES: Not Applicable.

OTHER COMMENTS:

Now that the centre is completed there exists a chain of exciting rainforest centres leading from the city's edge to the world heritage rainforest parks.

The feature attraction - Sky Walk - an elevated boardwalk over the top of the rainforest canopy is living up to its spectacular concept.

A booklet showing further details of this exciting new facility is attached.

**NATIONAL RAINFOREST CONSERVATION PROGRAM
FINANCIAL REPORT**

Project: N41 0629 INTERPRETATION CENTRE DORRIGO

AGREED ALLOCATION:

YEAR	C'WEALTH	STATE	TOTAL
1986/87			0
1987/88	150,000		150,000
1988/89	200,000	100,000	300,000
1989/90			0
1990/91			0
Total	350,000	100,000	450,000

FUND TRANSFERS:

The original allocation of \$50,000 to this project was transferred to N70 as an official variation to the 1986/87 program due to delays in finalising the details of this project.

ACTUAL LEDGER BALANCE:

YEAR	CONTRIBUTION ADDED	ACTUAL EXPENDITURE	BALANCE
1986/87	25,000	906.25	24,093.75
1987/88	125,000	23,355.77	125,737.98
1988/89	20,000	140,658.34	5,079.64
1989/90	280,000	160,653.70	124,425.94
1990/91	0	137,454.56	(13,028.62)
1991/92			(13,028.62)
Total	450,000	463,028.62	(13,028.62)

COMMENTS ON BALANCE:

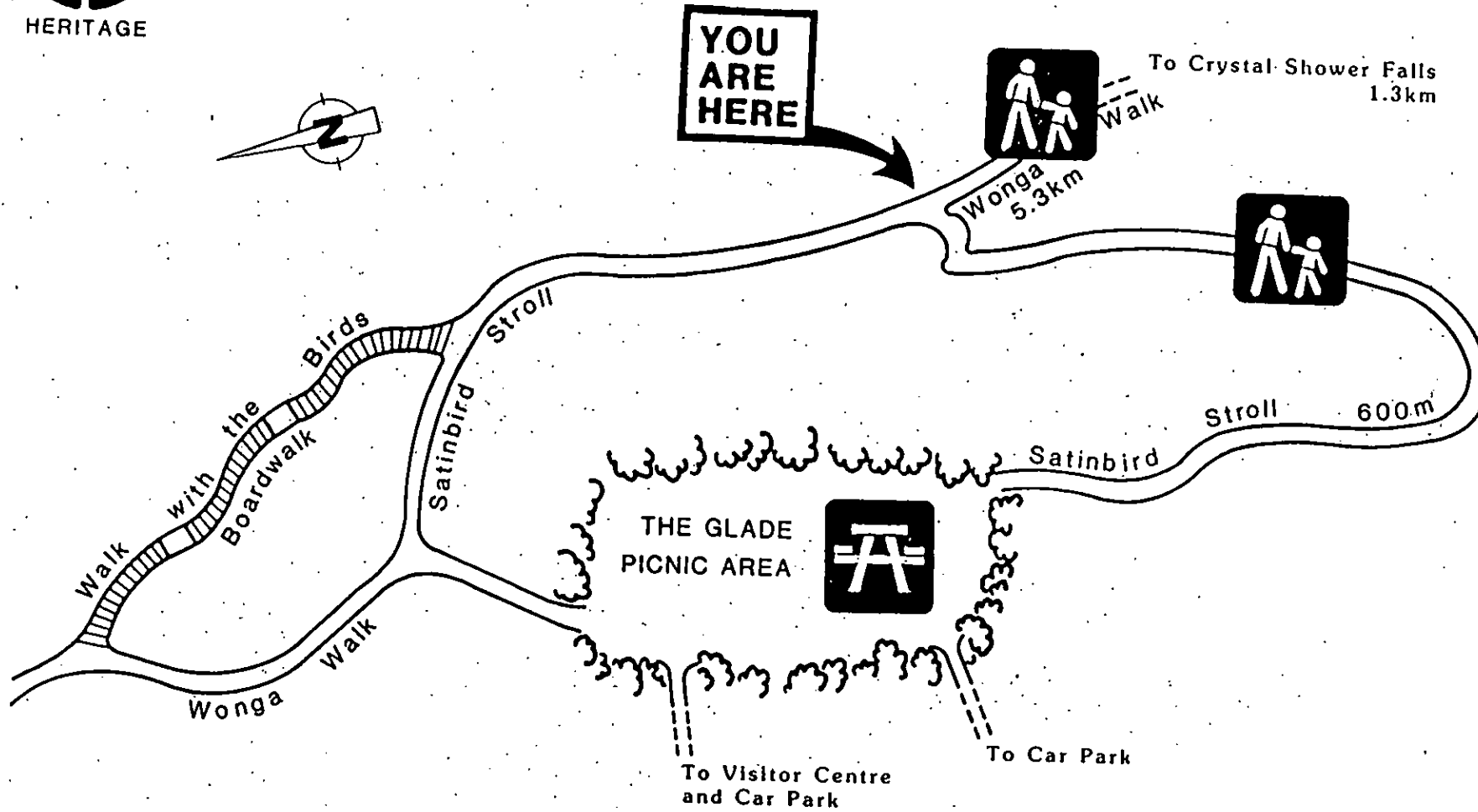
Amount overexpended to be covered by underexpenditure in N70 Dorriggo Walks. These projects should be considered together. Amounts spent in 1987/88 generally relate to project N70 which was a late inclusion on the NRCP because of problems planning for the Rainforest Centre.

"IN KIND" FUNDING:

Project supervision and administration provided by NPWS, along with extensive "in-kind" and additional funding. Details are shown on the attached sheet.

OTHER FUNDING SOURCES:

see attached plus 1991/92 Capital Works funding of \$26,300.
National Parks and Wildlife Foundation provided \$84,000 towards the kiosk.



THE GLADE RAINFOREST WALKS JORRIGO NATIONAL PARK

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NATIONAL RAINFOREST CONSERVATION PROGRAM

PROJECT TITLE: Construction and installation of Visitor Information Panels (VIP's) for purpose of interpretation of rainforests at high visitor usage locations in rainforest parks and reserves.

COMMONWEALTH I.D.: N42

STATE PROJECT CODE: 0622

PROJECT CATEGORY: Interpretative and Visitor Facilities

LOCATION: Various locations throughout NSW

DISTRICT: Northern Region and Lismore District

LAND TENURE: National park, nature reserves

PROJECT OBJECTIVES:

To interpret various rainforest locations frequented by park visitors as a means of promoting greater awareness of rainforest and rainforest conservation.

COMMUNITY BENEFIT:

Ready availability of information at visitor destinations.

PROJECT DESCRIPTION:

The Service has acquired considerable experience in the design and installation of information panels in parks and reserves. The project comprises,

- (i) Study and documentation of type and objective of information panels at each nominated location
- (ii) Construction and installation of panels.

STATUS OF PROJECT: Complete

PROGRESS OF PROJECT:

Anticipated starting date: early 1987

Actual starting date: early 1987

Expected completion date: June 1989

Actual completion date: December 1989

ACHIEVEMENT OF OBJECTIVES: Objectives were achieved.

OUTLINE ANY CHANGES IN PROJECT CONTENT:

The original project description was an indicative list only, and totalled considerably more than the funding provided. The list was therefore revised to fit the available funding.

AUTHORITY FOR CHANGES:

Regional Manager after verbal consultation with Commonwealth liaison officers.

OTHER COMMENTS:

Many projects were undertaken which are detailed in a comprehensive photo record, a copy of which was forwarded to the Commonwealth.

**NATIONAL RAINFOREST CONSERVATION PROGRAM
FINANCIAL REPORT**

Project: N42 0622 INTERPRETATION PANELS

AGREED ALLOCATION:

YEAR	C'WEALTH	STATE	TOTAL
1986/87	30,000		30,000
1987/88	30,000		30,000
1988/89	30,000	15,000	45,000
1989/90			0
1990/91			0
Total	90,000	15,000	105,000

FUND TRANSFERS:

No fund transfers to or from this project, however during 1989/90 an amount of \$13,000 was added to the project to compensate for a payment of the same amount given to the Forestry Commission as part of their overall funding from the NRCP.

ACTUAL LEDGER BALANCE:

YEAR	CONTRIBUTION ADDED	ACTUAL EXPENDITURE	BALANCE
1986/87	15,000	3,489.20	11,510.80
1987/88	45,000	35,260.60	21,250.20
1988/89	45,000	65,521.56	728.64
1989/90	13,000	13,269.65	458.99
1990/91			458.99
1991/92			458.99
Total	118,000	117,541.01	458.99

COMMENTS ON BALANCE:

No outstanding commitments. Balance available to cover any overexpenditure on other projects.
Total expenditure includes \$13,000 paid to the Forestry Commission.
This payment is discussed with the overall finances of the NRCP.

"IN KIND" FUNDING:

Extensive project supervision and administration provided by NPWS.
Significant support from Regional photographer including development and printing of colour photographs.

OTHER FUNDING SOURCES:

Capital Works funding of \$20,000 was provided in 1986/87 for Rainforest Interpretation. In addition the Northern Region was allocated \$58,500 from Capital Works for Interpretive Displays during the years 1987/88 to 1990/91. A significant portion of this would have been spent on rainforest areas.



Rainforest

Interpretive Displays and Signs



A joint Commonwealth and State Government
project funded under the
National Rainforest Conservation Program

April 1990

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NATIONAL RAINFOREST CONSERVATION PROGRAM

PROJECT TITLE: Conservation planning for rare plants of
Tweed volcano

COMMONWEALTH I.D.: N43

STATE PROJECT CODE: 0627

PROJECT CATEGORY: Research

LOCATION: Tweed Volcano, N.E. of NSW

DISTRICT: Lismore

LAND TENURE: Various

PROJECT OBJECTIVES:

To undertake necessary research to facilitate
conservation of known rare plants of Tweed volcano
region.

COMMUNITY BENEFIT:

Conservation of endangered species. Possible
horticultural benefits.

PROJECT DESCRIPTION:

Part I Habitat analysis and modelling of
population of endangered plants associated with
Tweed volcano as a means of nominating/predicting
other suitable habitat into which propagules can
be introduced.

Part II Propagation trials of nominated endangered
species and build up of nursery stock with strict
genotype records.

STATUS OF PROJECT: Complete

PROGRESS OF PROJECT:

Anticipated starting date: late 1987

Actual starting date: late 1987

Expected completion date: June 1988

Actual completion date: February 1990

ACHIEVEMENT OF OBJECTIVES: Objectives were achieved.

OUTLINE ANY CHANGES IN PROJECT CONTENT:

The preparation of management plans for some species was a logical extension of this project.

AUTHORITY FOR CHANGES:

Verbal agreement with Commonwealth liaison officers.

OTHER COMMENTS:

After extensive consultation with several expert rainforest botanists 36 rare species were selected for further study. Information on the precise locations of each of the 36 species was sought from other botanists.

The predictive modelling capacity of the Service's Environmental - Resource Management System was used with qualified success to further refine the location of the rare species. Surveys concentrated on rare species located outside conservation reserves.

Nineteen species were selected for propagation. Priority was given to species with little or no representation in conservation reserves and to populations under threat. Thirteen of the nineteen species have been successfully propagated from seed or cuttings. With a few exceptions all the species propagated have been planted in a rainforest arboretum established in the Korrumbyn Creek extension at Mount Warning National Park. See project N.83 as there was some integration and overlap of these projects. Management plans have been prepared for three species - *Fontainea oraria*, *Elaeocarpus williamsianus* and *Angiopteris evecta*. Detailed site and survey work was also undertaken on *Baloghia marmorata* and *Diploglottis campbellii*. Management works on site has been carried out for *Elaeocarpus* and *Angiopteris*.

This has been a very successful project. The Service's understanding of the locations and requirements of a large number of rare rainforest plants has been greatly extended. A summary report was prepared by the Project Officer (Rainforests) and is available at the Lismore District Office.

NATIONAL RAINFOREST CONSERVATION PROGRAM
FINANCIAL REPORT

Project: N43 0627 RARE PLANTS - TWEED VOLCANO

AGREED ALLOCATION:

YEAR	C'WEALTH	STATE	TOTAL
1986/87	10,000		10,000
1987/88	15,000	15,000	30,000
1988/89			0
1989/90			0
1990/91			0
Total	25,000	15,000	40,000

FUND TRANSFERS:

No fund transfers to or from this project.

ACTUAL LEDGER BALANCE:

YEAR	CONTRIBUTION ADDED	ACTUAL EXPENDITURE	BALANCE
1986/87	5,000	2,422.78	2,577.22
1987/88	35,000	15,625.54	21,951.68
1988/89	0	22,123.36	(171.68)
1989/90	0	1,434.09	(1,605.77)
1990/91			(1,605.77)
1991/92			(1,605.77)
Total	40,000	41,605.77	(1,605.77)

COMMENTS ON BALANCE:

Amount overexpended to be covered by underexpenditures in other projects.

"IN KIND" FUNDING:

Project supervision and administration provided by NPWS.
This project formed a major component of the work of the Project Officer (Rainforest). There was also some input from the Project Officer (Computers).

OTHER FUNDING SOURCES:

Ongoing maintenance of the Mt Warning Arboretum is funded by the District.

RARE AND ENDANGERED RAINFOREST PLANTS OF THE TWEED
SHIELD

SUMMARY REPORT

NATIONAL RAINFOREST CONSERVATION PROGRAM

John Hunter
Project Officer
(Rainforest
Management)

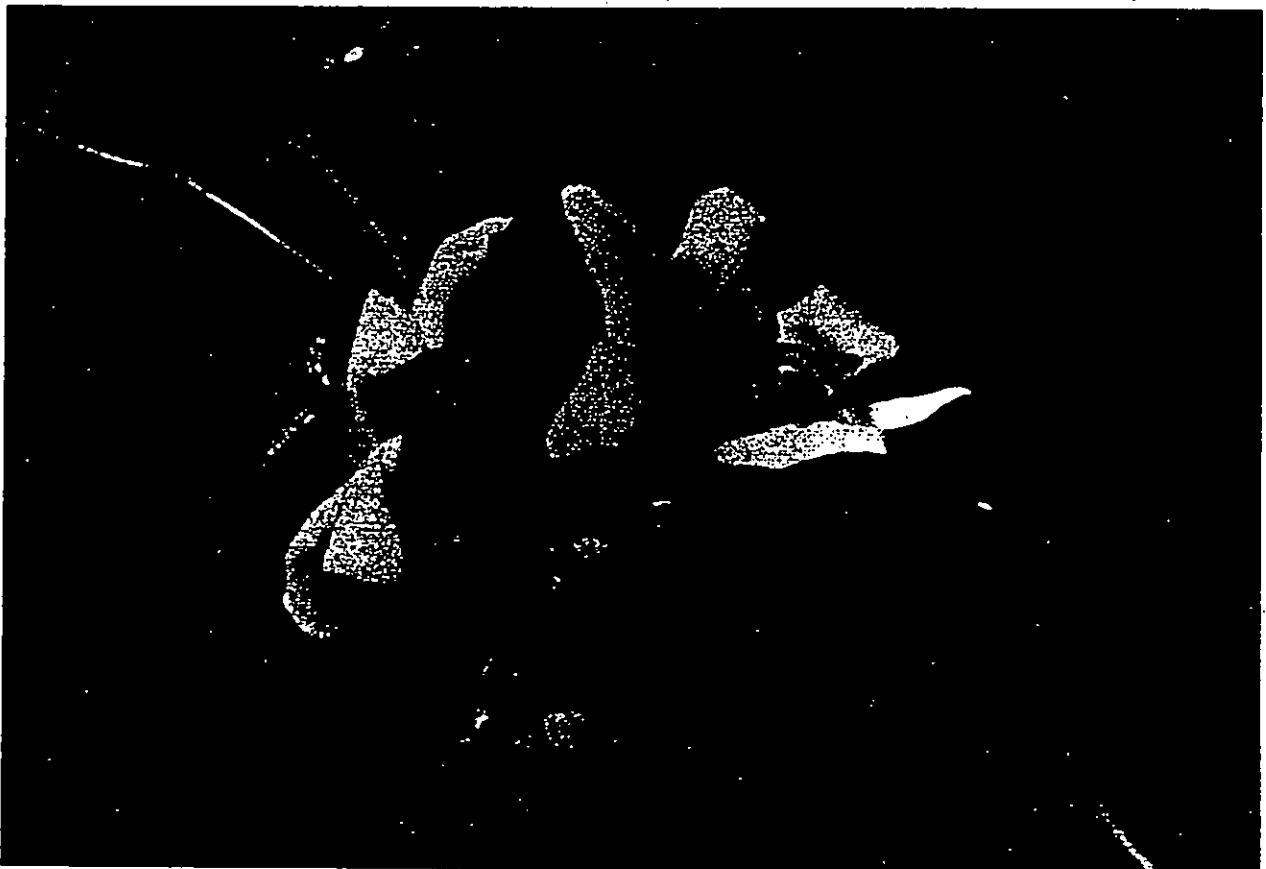
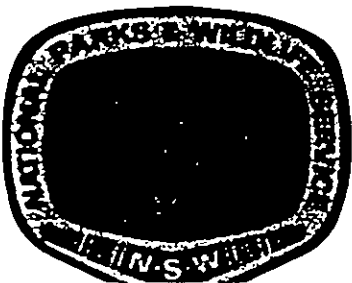


Photo by L. Jessop, Queensland Herbarium.

Fontainea oraria - one of the rarest and most
endangered rainforest plants in New South Wales.



NATIONAL RAINFOREST CONSERVATION PROGRAM

PROJECT TITLE: Handbook - ecology rehabilitation and management of littoral rainforest

COMMONWEALTH I.D.: N44

STATE PROJECT CODE: 0635

PROJECT CATEGORY: Research

LOCATION: NSW and Queensland coastline

DISTRICT: Northern Region and Lismore District.

LAND TENURE: Various

PROJECT OBJECTIVES:

To provide the owners and managers of the many small pockets of littoral rainforest with an understanding of the dynamics and ecology of littoral rainforest and to provide a guide to their management.

COMMUNITY BENEFIT:

Opportunity for local community participation in managing littoral rainforest.

PROJECT DESCRIPTION:

The production of a handbook on littoral rainforest has been foreshadowed by the NSW Government as part of a Government initiative to protect littoral rainforest.

The project would comprise an assembly of ecological information liberally illustrated with photographs and diagrams, together with outlines of rehabilitation methods including weeding, planting, constructions of windscreens, walking track construction etc. The main users would be local Government and local community trusts.

STATUS OF PROJECT: Incomplete. Draft text completed.

PROGRESS OF PROJECT:

Anticipated starting date: early 1987

Actual starting date: early 1988

Expected completion date: June 1989

Actual completion date:

ACHIEVEMENT OF OBJECTIVES:

Handbook has not been published. Draft text was completed in August 1988.

OUTLINE ANY CHANGES IN PROJECT CONTENT:

In December 1988 the proposal from Peter Hitchcock was to publish the handbook as part of three matched volumes. This proposal was not followed through because of the cost of producing three volumes.

During 1989 it was realised that the available funds would severely limit the print quality and run size of the publication, and consequently it was proposed to seek commercial publication.

AUTHORITY FOR CHANGES:

Verbal agreement from NRCP Coordinator.

OTHER COMMENTS:

Although expressing initial interest Reed books have indicated that they would like some changes made (mainly additions) prior to publishing to make the handbook more appealing to a wider audience. Additional funding was sought in the 1990/91 program to print a less expensive version. The additional funding was not provided.

NATIONAL RAINFOREST CONSERVATION PROGRAM
FINANCIAL REPORT

Project: N44 0635 LITTORAL RAINFOREST HANDBOOK

AGREED ALLOCATION:

YEAR	C'WEALTH	STATE	TOTAL
1986/87	10,000	10,000	20,000
1987/88			0
1988/89	2,500	2,500	5,000
1989/90			0
1990/91			0
Total	12,500	12,500	25,000

FUND TRANSFERS:

No fund transfers to or from this project.

ACTUAL LEDGER BALANCE:

YEAR	CONTRIBUTION ADDED	ACTUAL EXPENDITURE	BALANCE
1986/87	5,000	0.00	5,000.00
1987/88	15,000	14,093.18	5,906.82
1988/89	0	532.94	5,373.88
1989/90	5,000	120.00	10,253.88
1990/91		18,700.00	(8,446.12)
1991/92			(8,446.12)
Total	25,000	33,446.12	(8,446.12)

COMMENTS ON BALANCE:

This project has not been finalised yet shows an overexpenditure.
It is believed that the payment of \$18,700 showing in 1990/91 has
been incorrectly coded and should be a charge against N1.

"IN KIND" FUNDING:

Project supervision and administration provided by NPWS.

OTHER FUNDING SOURCES:

NATIONAL RAINFOREST CONSERVATION PROGRAM

PROJECT TITLE: Investigate apparent decline in
rainforest pigeons in N.E. of NSW and
S.E. of Queensland.

COMMONWEALTH I.D.: N45

STATE PROJECT CODE: 0911

PROJECT CATEGORY: Research

LOCATION: N.E. of NSW and S.E. of Queensland

DISTRICT: Lismore

LAND TENURE: Various

PROJECT OBJECTIVES:

To establish a monitoring program to determine the
status of selected species of rainforest pigeon.

COMMUNITY BENEFIT:

Public awareness of habitat requirements of
pigeons.

PROJECT DESCRIPTION:

The project would initially employ one research
officer and one technical assistant.

The researcher would be required to design a
census/monitoring program for all pigeons but with
emphasis on the rarer woompoo. Monitoring in the
first year would be limited to nominated seasons
to improve cost efficiency of on-going monitoring.

An essential aspect would be identification of
main seasonal food sources.

STATUS OF PROJECT: Incomplete.

PROGRESS OF PROJECT:

Anticipated starting date: late 1987

Actual starting date: early 1988

Expected completion date: June 1992

Actual completion date:

ACHIEVEMENT OF OBJECTIVES:

Monitoring program completed and original project objectives have been met.

OUTLINE ANY CHANGES IN PROJECT CONTENT:

Scope of project was increased to a management plan for all NSW pigeons however the Service subsequently decided on a standard format for all management plans. We are awaiting the final copy in the new standard format.

AUTHORITY FOR CHANGES:

Verbal agreement with Commonwealth liaison officers.

OTHER COMMENTS:

A contract was let to the University of New England to study rainforest pigeons. The contract was to examine the distribution, abundance, foraging and breeding of Wompoo, Rose-crowned and Superb Fruit Doves, Brown Cuckoo Doves, Emerald Doves and Topknot, White-headed and Wonga Pigeons. Three reports on the work have been received to date. The contract requires the preparation of a plan of management aimed at ensuring the long term survival of free-living populations of rainforest pigeons in N.S.W. The plan of management in the standard Service format is expected by June 1992. The following papers were written as a result of this project:

Date, E.M., Ford, H.A., & Recher, H.F. 1989. Frugivorous pigeons, stepping stones and weeds in northern New South Wales. In Nature Conservation: The Role of Corridors. ed. by D.A. Saunders et al. Surrey/Beatty, in press.

Date, E.M. & Recher, H.F. 1989. Ecology and management of rainforest pigeons in New South Wales: interim report and recommendations. For New South Wales National Parks and Wildlife Service.

Date, E.M. & Recher, H.F. 1990. Interim Management Plan for Rainforest Pigeons in northern New South Wales. For New South Wales National Parks and Wildlife Service June 1990.

INTERIM MANAGEMENT PLAN FOR RAINFOREST PIGEONS IN
NORTHERN NEW SOUTH WALES

by E.M. DATE and H.F. RECHER,
DEPARTMENT OF ECOSYSTEM MANAGEMENT,
UNIVERSITY OF NEW ENGLAND,
ARMIDALE. NSW. 2351.

for NATIONAL PARKS AND WILDLIFE SERVICE (NSW).
submitted JUNE 1990.



FRUGIVOROUS PIGEONS, STEPPING STONES, AND WEEDS IN
NORTHERN NEW SOUTH WALES

E.M. Date 1, H.A. Ford 2, and H.F. Recher 1

ABSTRACT

Lack of continuous vegetation (i.e., corridors) does not appear to prevent rainforest frugivores, such as pigeons, from using remnants or moving long distances from high to low elevations or along the coast. Historically, rainforests in New South Wales were fragmented by eucalypt forests. As a patchwork of geographically close 'habitat islands', the smaller fragments formed stepping stones between rainforest at high and low elevations. Although clearing for agriculture has reduced lowland subtropical rainforest in New South Wales to isolated remnants, the spatial distribution of remnants is not dissimilar to that of rainforest patches at higher elevations. Frugivorous pigeons cross open country and use a variety of vegetation, including exotic weeds, as stepping stones to move between remnants. While it may not be necessary to ensure habitat continuity for these species, a patchwork of vegetation may be required to facilitate movements and provide alternative feeding areas. This does not need to be native or undisturbed habitat. In the short term, introduced species that provide winter food for frugivores and stepping stones between remnant rainforests, such as camphor laurel, *Cinnamomum camphora*, should be retained to conserve rainforest frugivores in northeastern New South Wales. In the long term, they should be replaced by a network of native species.

NATIONAL RAINFOREST CONSERVATION PROGRAM
FINANCIAL REPORT

Project: N45 0911 DECLINE OF RAINFOREST PIGEONS

AGREED ALLOCATION:

YEAR	C'WEALTH	STATE	TOTAL
1986/87			0
1987/88	12,500	12,500	25,000
1988/89	12,500	12,500	25,000
1989/90			0
1990/91			0
Total	25,000	25,000	50,000

FUND TRANSFERS:

No fund transfers to or from this project.

ACTUAL LEDGER BALANCE:

YEAR	CONTRIBUTION ADDED	ACTUAL EXPENDITURE	BALANCE
1986/87			0.00
1987/88	12,500	9,155.00	3,345.00
1988/89	21,216.28	25,000.00	(438.72)
1989/90	13,722.94	7,000.00	6,284.22
1990/91			6,284.22
1991/92		(278.84)	6,563.06
Total	47,439.22	40,876.16	6,563.06

COMMENTS ON BALANCE:

This project has been used to balance the contributions bought down by Treasury in the years that amounts bought down equalled expenditure. An additional \$2,560.78 in contributions has yet to be added to the account. Final contract payment of \$8,845 has still to be paid. This was the amount left available in the account before the credit (incorrectly?) appeared in 1991/92.

"IN KIND" FUNDING:

Project supervision and administration provided by NPWS.
District staff were involved in contract writing and monitoring and some field activities.

OTHER FUNDING SOURCES:



12th June 1991

NSW
NATIONAL
PARKS AND
WILDLIFE
SERVICE

Ms E Date
Dept. of Ecosystem Management
The University of New England
ARMIDALE NSW 2351

Our reference: P/0384
Your reference:

Dear Elizabeth

Reference is made to your letter of the 26/6/90 enclosing "Interim Management Plan for Rainforest Pigeons in New South Wales" and indicating that final management recommendations will be submitted by December 1990.

After a review of the interim plan a number of points are raised for inclusion in a final draft.

1. Format - the Service has standardised its format for species management plans. A copy of the "Little Tern Management Plan" is included as a guide.
2. State-wide Plan - the plan concentrates on the north-east corner of New South Wales. The plan should include statewide management initiatives. It is realised that the data will be scant for other parts of the state, however these areas should be considered in the plan even to the extent of indicating that no data is available.

Further to your recent telephone call it is confirmed that the 25th June is a suitable date for me to discuss the plan with you and Dr Recher. It is also confirmed that the final contract payment of \$8,845 has yet to be paid.

Looking forward to discussing the plan shortly.

Yours faithfully

Guy Holloway
for DIRECTOR

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Alstonville 2477
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Tel: (066) 28 117

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Hurstville NSW
Australia
PO Box 1967
Hurstville 2220
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Tel: (02) 585 6444

Library

23rd March, 1989.

Ecology and Management of Rainforest Pigeons in New South Wales:
Interim Report and Recommendations

Elizabeth M. Date and Harry F. Recher,
Department of Ecosystem Management,
University of New England,
Armidale. N.S.W. 2351.

Abstract

Monthly censuses of 10 rainforest sites revealed large seasonal changes in the distribution and abundance of Wompoo, Superb and Rose-crowned Fruit-Doves and Topknot and White-headed Pigeons in highland and lowland rainforest. This indicates that rainforests on north-south and altitudinal migration routes of these species in New South Wales are more important than previously recognized. Retention of corridors of rainforest and camphor laurel, Cinnamomum camphora, which link high and low elevation forests, and of coastal corridors of heath and sclerophyll forest, which link littoral rainforests, is necessary to protect the altitudinal and north-south migration routes of Wompoo, Rose-crowned and Superb Fruit-Doves and Topknot and White-headed Pigeons. Apart from the need to conserve critical habitats, none of the rainforest pigeons occurring in New South Wales is 'endangered' although several are rare or only locally abundant. People living in rainforest areas of northeastern N.S.W. rated Superb Fruit-Doves as rare, Wompoo and Rose-crowned Fruit-Doves as uncommon to rare, Emerald Doves and Wonga Pigeons as uncommon and Topknot and White-headed Pigeons and Brown Cuckoo-Doves as common to uncommon with Brown Cuckoo-Doves as the most common. Except for Wompoo and Rose-crowned Fruit-Doves and Wonga Pigeons which are only locally abundant and readily detected in rainforest, the ratings of relative abundance concurred with census results.

NATIONAL RAINFOREST CONSERVATION PROGRAM

PROJECT TITLE: Survey of Dry Rainforest
Fauna with special emphasis
on micro-chiropterans.

COMMONWEALTH I.D.: N46

STATE PROJECT CODE: 0912

PROJECT CATEGORY: Research

LOCATION: Various dry rainforest stands in
North-eastern N.S.W.

DISTRICT: Head Office, E.S. & R. Branch.

LAND TENURE: Various

PROJECT OBJECTIVES: Survey various dry rainforest
stands to determine conservation
status of dry rainforest fauna
especially microchiropterans.

COMMUNITY BENEFIT: Better understanding of the
conservation status of dry
rainforest species.

PROJECT DESCRIPTION: (i) Survey by using various
techniques of dry rainforest
stands for dry rainforest species.

(ii) Establishment of computer
database.

STATUS OF PROJECT: Complete

PROGRESS OF PROJECT:
Anticipated starting date: early 1988
Actual starting date: early 1988

Expected completion date: June 1989
Actual completion date: late 1989

ACHIEVEMENT OF OBJECTIVES: Objectives were achieved.

OUTLINE ANY CHANGES IN PROJECT CONTENT:

No changes to original project content.

AUTHORITY FOR CHANGES: Not Applicable.

OTHER COMMENTS:

This project is working towards providing a mammalian basis for evaluation of rainforest areas, in addition to botanical criteria.

Analysis of prey remains in canid droppings is providing the majority of the survey data. The study team is focusing on insectivorous bats, a group of mammals neglected in past rainforest studies.

Field work was undertaken on the Carrai Plateau, the Richmond Range, and in Iluka Nature Reserve. Preliminary results indicating that a dependence exists, among some rainforest mammals, on the unique structural characteristics of rainforest.

**NATIONAL RAINFOREST CONSERVATION PROGRAM
FINANCIAL REPORT**

Project: N46 0912 SURVEY OF DRY RAINFOREST FAUNA
(this appears incorrectly named on Head Office records
as Amphibians Reptiles Mammals Survey)

AGREED ALLOCATION:

YEAR	C'WEALTH	STATE	TOTAL
1986/87			0
1987/88	10,000		10,000
1988/89	15,000	15,000	30,000
1989/90			0
1990/91			0
Total	25,000	15,000	40,000

FUND TRANSFERS:

No fund transfers to or from this project.

ACTUAL LEDGER BALANCE:

YEAR	CONTRIBUTION ADDED	ACTUAL EXPENDITURE	BALANCE
1986/87			0.00
1987/88	0	5,121.10	(5,121.10)
1988/89	40,000	36,345.01	(1,466.11)
1989/90		9,105.69	(10,571.80)
1990/91			(10,571.80)
1991/92			(10,571.80)
Total	40,000	50,571.80	(10,571.80)

COMMENTS ON BALANCE:

Amount overexpended to be covered by underexpenditures in
other projects.

"IN KIND" FUNDING:

Project supervision and administration provided by NPWS.
Work undertaken by Service staff.
NPWS also provided motor vehicles, tools, and plant and equipment.

OTHER FUNDING SOURCES:

NATIONAL RAINFOREST CONSERVATION PROGRAM

PROJECT TITLE: Survey Rare and Endangered
Flora and Fauna - Focal Peak Region.

COMMONWEALTH I.D.: N47

STATE PROJECT CODE: 0913

PROJECT CATEGORY: Research

LOCATION: Focal Peak Volcano, N.E. of N.S.W.,
South Queensland.

DISTRICT: Lismore

LAND TENURE: Various.

PROJECT OBJECTIVES: (i) To undertake a review of
information available on rare and
endangered flora and fauna in the
region.

(ii) To follow-up with surveys for
specific endangered flora and fauna.

(iii) Preparation of computer
database.

COMMUNITY BENEFIT: Conservation of endangered species.

PROJECT DESCRIPTION: 1. By the use of contractors review
the information available from
published literature, museums, and
naturalists of the endangered flora
and fauna of the region.

2. To produce site specific
information to enable a modelling
programme to be established.

STATUS OF PROJECT: Complete

PROGRESS OF PROJECT:

Anticipated starting date: late 1987

Actual starting date: July 1987

Expected completion date: June 1989

Actual completion date: February 1990

ACHIEVEMENT OF OBJECTIVES: Objectives were achieved.

OUTLINE ANY CHANGES IN PROJECT CONTENT:
No changes to original project content.

AUTHORITY FOR CHANGES: Not Applicable.

OTHER COMMENTS:

This survey was undertaken by the Department of Natural Resources of the University of New England to determine the distribution, abundance and habitat requirements of rainforest mammals, reptiles and amphibians in the Focal Peak region of the Border Ranges. Existing distribution records of rare rainforest vertebrate in the Focal Peak area were initially compiled. These records were enhanced with further systematic field surveys in six major rainforest patches in the region. As with project N2 these surveys have provided important information on the rarity and conservation status of rainforest species in the Focal Peak area.

A paper was written as a result of this project:

Smith, A.P., Hines, H.B., Pugh, D. and Webber, P. 1989.

Mammals, Reptiles and Amphibians of the Rainforests of the Focal Peak Region.

A report to the New South Wales National Parks and Wildlife Service.

NATIONAL RAINFOREST CONSERVATION PROGRAM
FINANCIAL REPORT

Project: N47 0913 SURVEY FOCAL PEAK

AGREED ALLOCATION:

YEAR	C'WEALTH	STATE	TOTAL
1986/87			0
1987/88	7,500	7,500	15,000
1988/89	7,500	7,500	15,000
1989/90			0
1990/91			0
Total	15,000	15,000	30,000

FUND TRANSFERS:

No fund transfers to or from this project.

ACTUAL LEDGER BALANCE:

YEAR	CONTRIBUTION ADDED	ACTUAL EXPENDITURE	BALANCE
1986/87			0.00
1987/88	7,500	5,000.00	2,500.00
1988/89	17,500	20,000.00	0.00
1989/90	5,000	10,000.00	(5,000.00)
1990/91			(5,000.00)
1991/92			(5,000.00)
Total	30,000	35,000.00	(5,000.00)

COMMENTS ON BALANCE:

This project should not have been overspent. It is probable that a contract payment from another project was charged to this account. Amount overexpended to be covered by underexpenditures in other projects.

"IN KIND" FUNDING:

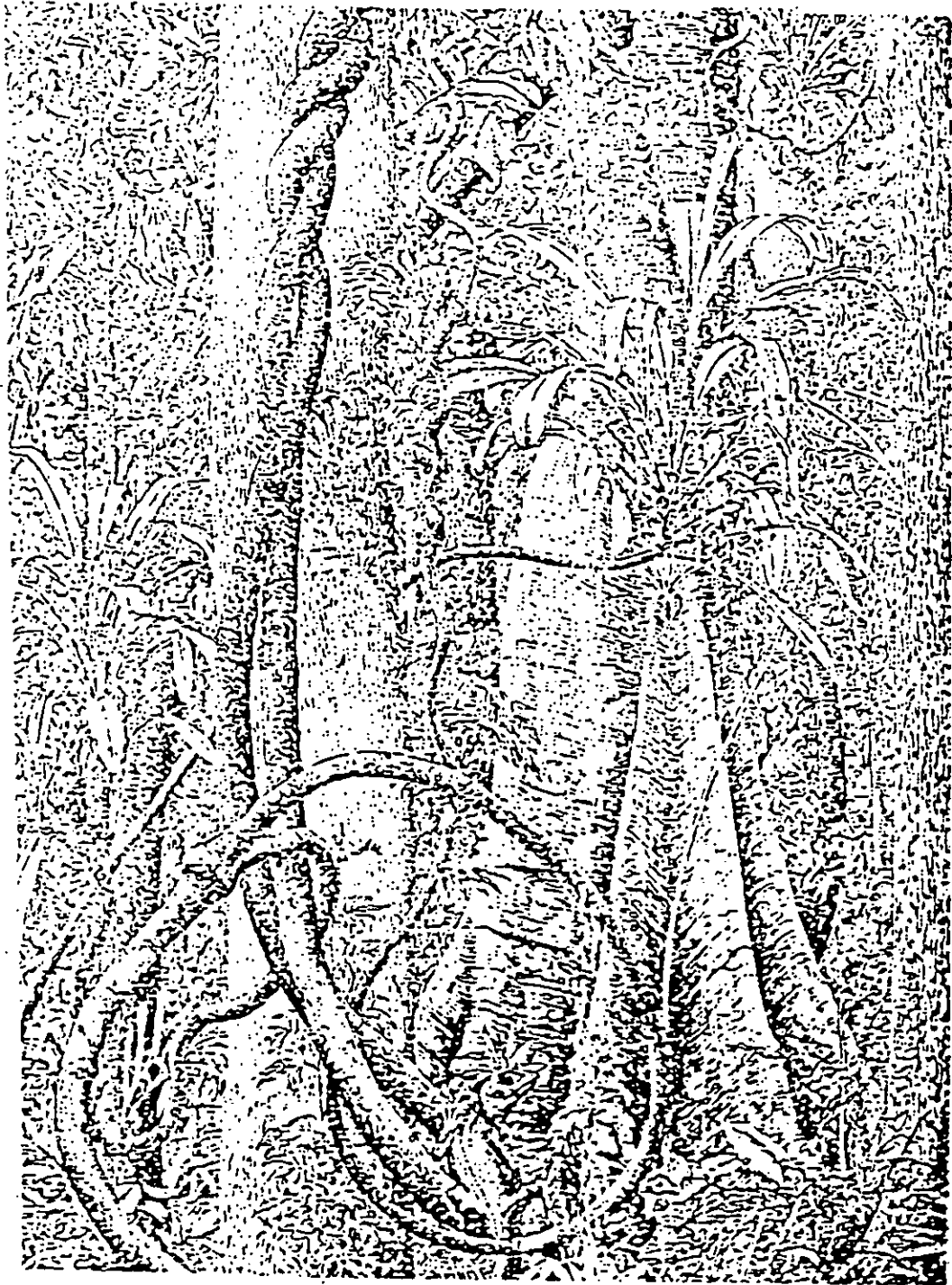
Project supervision and administration provided by NPWS.
Northern Region's Project Officer (Computers) was involved in original survey design and computing time.

OTHER FUNDING SOURCES:

MAMMALS, REPTILES AND AMPHIBIANS OF THE RAINFORESTS OF THE FOCAL PEAK REGION.

by

A. P. SMITH, H. B. HINES, D. PUGH AND P. WEBBER



DEPARTMENT OF ECOSYSTEM MANAGEMENT
UNIVERSITY OF NEW ENGLAND, ARMIDALE AUGUST 1989

NATIONAL RAINFOREST CONSERVATION PROGRAM

PROJECT TITLE: Rehabilitation of Hacking River rainforests (Royal National Park and Garrawarra State Recreation Area).

COMMONWEALTH I.D.: N50

STATE PROJECT CODE: 0945

PROJECT CATEGORY: Planning and Management

LOCATION: Royal National Park and Garrawarra State Recreation Area (between Sydney and Wollongong).

DISTRICT: South Metropolitan

LAND TENURE: National Park and State Recreation Area.

PROJECT OBJECTIVES: To eradicate major weed infestation from rainforests in the Hacking River Valley near Helensburgh. To rehabilitate these areas with indigenous species so as to restore the natural rainforest associations.

COMMUNITY BENEFIT: Restored rainforest resource in an area readily accessible to a large part of the community.

PROJECT DESCRIPTION: The project will comprise:

- (i) Inventory of botanical resources.
- (ii) Propagation of local tree species for replanting.
- (iii) Weed removal and replacement (essentially Bradley method of natural bush regeneration).
- (iv) Associated fencing and protection works.
- (v) Local signposting and explanation of the project.

STATUS OF PROJECT: Complete

PROGRESS OF PROJECT:

Anticipated starting date: late 1987

Actual starting date: late 1987

Expected completion date: June 1989

Actual completion date: late 1989

ACHIEVEMENT OF OBJECTIVES: Objectives were achieved.

OUTLINE ANY CHANGES IN PROJECT CONTENT:

No changes to original project content.

AUTHORITY FOR CHANGES: Not Applicable.

OTHER COMMENTS:

Project included the construction of a new loop track and linking to other track systems in the area. This has proved to be a very popular rainforest walk. Standard track construction methods employed, extensive tree planting and signposting, construction of two bridges.

**NATIONAL RAINFOREST CONSERVATION PROGRAM
FINANCIAL REPORT**

Project: N50 0945 HACKING RIVER REHAB

AGREED ALLOCATION:

YEAR	C'WEALTH	STATE	TOTAL
1986/87			0
1987/88	25,000	75,000	100,000
1988/89	10,000		10,000
1989/90			0
1990/91			0
Total	35,000	75,000	110,000

FUND TRANSFERS:

No fund transfers to or from this project.

ACTUAL LEDGER BALANCE:

YEAR	CONTRIBUTION ADDED	ACTUAL EXPENDITURE	BALANCE
1986/87			0.00
1987/88	75,000	78,467.77	(3,467.77)
1988/89	35,000	35,661.47	(4,129.24)
1989/90	0	534.49	(4,663.73)
1990/91			(4,663.73)
1991/92			(4,663.73)
Total	110,000	114,663.73	(4,663.73)

COMMENTS ON BALANCE:

Amount overexpended to be covered by underexpenditures in other projects.

"IN KIND" FUNDING:

Project supervision and administration provided by NPWS.

OTHER FUNDING SOURCES:

NATIONAL RAINFOREST CONSERVATION PROGRAM

PROJECT TITLE: New England National Park
Walking Track Rehabilitation.

COMMONWEALTH I.D.: N51

STATE PROJECT CODE: 0933

PROJECT CATEGORY: Planning and Management.

LOCATION: New England National Park.

DISTRICT: Dorriggo

LAND TENURE: National Park.

PROJECT OBJECTIVES: Rehabilitation and relocation of
walking tracks in the cool
temperate rainforest areas of New
England National Park.

COMMUNITY BENEFIT: Enhancement of visitor enjoyment
and experience.

PROJECT DESCRIPTION: Improvement, relocation, and
construction of walking tracks.

STATUS OF PROJECT: Complete

PROGRESS OF PROJECT:
Anticipated starting date: late 1987
Actual starting date: late 1987

Expected completion date: June 1989
Actual completion date: June 1989

ACHIEVEMENT OF OBJECTIVES: Objectives were achieved.

OUTLINE ANY CHANGES IN PROJECT CONTENT:
No changes to original project content.

AUTHORITY FOR CHANGES: Not Applicable.

OTHER COMMENTS:

Tracks through the Antarctic Beech forests have been upgraded to the extent funds permitted.

NATIONAL RAINFOREST CONSERVATION PROGRAM
FINANCIAL REPORT

Project: N51 0933 WALKING TRACK NEW ENGLAND N.P.

AGREED ALLOCATION:

YEAR	C'WEALTH	STATE	TOTAL
1986/87			0
1987/88	10,000	25,000	35,000
1988/89	15,000		15,000
1989/90			0
1990/91			0
Total	25,000	25,000	50,000

FUND TRANSFERS:

No fund transfers to or from this project.

ACTUAL LEDGER BALANCE:

YEAR	CONTRIBUTION ADDED	ACTUAL EXPENDITURE	BALANCE
1986/87			0.00
1987/88	25,000	36,260.02	(11,260.02)
1988/89	25,000	14,155.34	(415.36)
1989/90			(415.36)
1990/91		1.08	(416.44)
1991/92			(416.44)
Total	50,000	50,416.44	(416.44)

COMMENTS ON BALANCE:

Amount overexpended to be covered by underexpenditures in other projects.

"IN KIND" FUNDING:

Project supervision and administration provided by NPWS.
Direct supervision by District Rangers and workstaff. NPWS also provided motor vehicles, tools, and plant and equipment.
Accommodation for workcrews provided in Service cabins that are usually rented out at \$45 per night.

OTHER FUNDING SOURCES:

NATIONAL RAINFOREST CONSERVATION PROGRAM

PROJECT TITLE: Mount Hyland Nature Reserve
Management Programme.

COMMONWEALTH I.D.: N52

STATE PROJECT CODE: 0925

PROJECT CATEGORY: Planning and management.

LOCATION: Northern Region N.E. of N.S.W.

DISTRICT: Dorriggo

LAND TENURE: Nature Reserve.

PROJECT OBJECTIVES: Provide high quality visitor
facilities, walking track, and
rehabilitate disturbed areas in
Mount Hyland Nature Reserve.

COMMUNITY BENEFIT: (1) Enhancement of visitor
enjoyment and experience.

(2) Conservation and management
of high quality rainforest
stand.

PROJECT DESCRIPTION: (1) Construction of high quality
walking track from visitor
facilities through rainforest
to summit of Mount Hyland.

(2) Provision of visitor facilities
including interpretation.

(3) Rehabilitation of disturbed
rainforest areas.

STATUS OF PROJECT: Complete

PROGRESS OF PROJECT:
Anticipated starting date: late 1987
Actual starting date: early 1988

Expected completion date: June 1988
Actual completion date: December 1989

ACHIEVEMENT OF OBJECTIVES: Objectives were achieved.

OUTLINE ANY CHANGES IN PROJECT CONTENT:
No changes to original project content.

AUTHORITY FOR CHANGES: Not Applicable.

OTHER COMMENTS:

Track and facilities have been completed. Metal photo interpretive plates have been produced and installed. A map sign of the facilities is attached.

NATIONAL RAINFOREST CONSERVATION PROGRAM
FINANCIAL REPORT

Project: N52 0925 WALKING TRACK FACIL.MT.HYLAND

AGREED ALLOCATION:

YEAR	C'WEALTH	STATE	TOTAL
1986/87			0
1987/88	7,500	7,500	15,000
1988/89			0
1989/90			0
1990/91			0
Total	7,500	7,500	15,000

FUND TRANSFERS:

No fund transfers to or from this project.

ACTUAL LEDGER BALANCE:

YEAR	CONTRIBUTION ADDED	ACTUAL EXPENDITURE	BALANCE
1986/87			0.00
1987/88	7,500	8,443.96	(943.96)
1988/89	7,500	7,032.88	(476.84)
1989/90			(476.84)
1990/91			(476.84)
1991/92			(476.84)
Total	15,000	15,476.84	(476.84)

COMMENTS ON BALANCE:

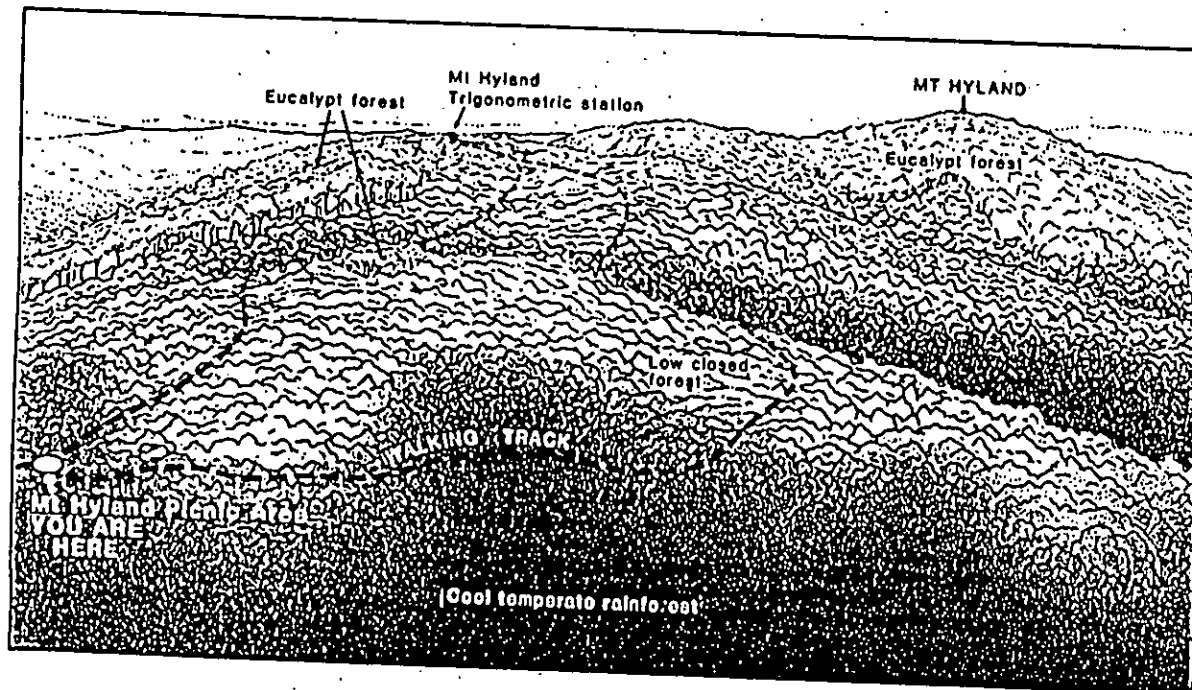
Amount overexpended to be covered by underexpenditures in other projects.

"IN KIND" FUNDING:

Project supervision and administration provided by NPWS.
NPWS also provided motor vehicles, tools, and plant and equipment.
A District Ranger and a Park Worker were involved extensively in this project.

OTHER FUNDING SOURCES:

WELCOME TO MOUNT HYLAND NATURE RESERVE



EXPLORING MOUNT HYLAND

The Mount Hyland Walking Track leads to the trig station on the lowest of Mount Hyland's triple peaks. It passes through cool temperate rainforest with its majestic Mountain Walnuts and ancient Wonga Vines, as well as through low closed forest of gnarled Mountain Treeheath and Coastal Banksias. The mimicry of lyrebirds and the loud screeching calls of Yellow-tailed Black Cockatoos are often heard on the mountain.

SPECTACULAR VIEWS

The southern outlook from the trig station provides a splendid view of the Great Escarpment and the Dorriggo Plateau. To the west Chandlers Peak near Guyra dominates the horizon, with the Guy Fawkes River Valley in the foreground.

Allow approximately two hours for this three kilometre loop walk.



NATIONAL RAINFOREST CONSERVATION PROGRAM

PROJECT TITLE: Burgh Track.
COMMONWEALTH I.D.: N53
STATE PROJECT CODE: 0946
PROJECT CATEGORY: Planning and Management
LOCATION: Royal N.P./Garrawarra S.R.A.
DISTRICT: South Metropolitan
LAND TENURE: National Park/State Recreation Area

PROJECT OBJECTIVES:

Restore and rehabilitate the historic Burgh Track which traverses significant rainforest communities in the Hacking River Valley. To create a first class walking trail through some of the most accessible rainforest in the Sydney metropolitan area.

COMMUNITY BENEFIT:

Improved public access and greater public awareness of rainforest.

PROJECT DESCRIPTION:

Rehabilitation of existing Burgh Track.
Rerouting of track away from particularly sensitive rainforest areas.
Interpretation and signposting.

STATUS OF PROJECT: Complete

PROGRESS OF PROJECT:

Anticipated starting date: late 1987

Actual starting date: late 1987

Expected completion date: late 1988

Actual completion date: late 1988

ACHIEVEMENT OF OBJECTIVES:

Objectives were achieved although a short section of the track through private property was not upgraded.

OUTLINE ANY CHANGES IN PROJECT CONTENT:

No changes were made from the original project content.

REASONS FOR THESE CHANGES: Not Applicable.

AUTHORITY FOR CHANGES: Not Applicable.

OTHER COMMENTS:

Works undertaken involved reconstruction of former disused track system linking the township of Helensburgh to the coastal walking track system.

**NATIONAL RAINFOREST CONSERVATION PROGRAM
FINANCIAL REPORT**

Project: N53 0946 BURGH TRACK

AGREED ALLOCATION:

YEAR	C'WEALTH	STATE	TOTAL
1986/87			0
1987/88	25,000	25,000	50,000
1988/89			0
1989/90			0
1990/91			0
Total	25,000	25,000	50,000

FUND TRANSFERS:

No fund transfers to or from this project.

ACTUAL LEDGER BALANCE:

YEAR	CONTRIBUTION ADDED	ACTUAL EXPENDITURE	BALANCE
1986/87			0.00
1987/88	25,000	49,733.33	(24,733.33)
1988/89	25,000	6,784.19	(6,517.52)
1989/90			(6,517.52)
1990/91			(6,517.52)
1991/92			(6,517.52)
Total	50,000	56,517.52	(6,517.52)

COMMENTS ON BALANCE:

Amount overexpended to be covered by underexpenditures in other projects.

"IN KIND" FUNDING:

Project supervision and administration provided by NPWS.

OTHER FUNDING SOURCES:

NATIONAL RAINFOREST CONSERVATION PROGRAM

PROJECT TITLE: Robertson Nature Reserve - Rehabilitation.

COMMONWEALTH I.D.: N54

STATE PROJECT CODE: 0947

PROJECT CATEGORY: Planning and Management.

LOCATION: Robertson Nature Reserve.

DISTRICT: Nowra.

LAND TENURE: Nature Reserve.

PROJECT OBJECTIVES: To restore the natural integrity of the only surviving example dominated by sassafras and possumwood and which is a remnant of the once extensive "Yarrawa Scrub".

COMMUNITY BENEFIT: The rehabilitation of a remnant rainforest type and to provide for appropriate public use of the area and the provision of basic information and interpretation.

PROJECT DESCRIPTION: The project will include:-
1. Weed control on south and western boundaries.
2. Revegetation works.
3. Consolidation of access tracks to a single loop.
4. Provision of basic information at entrance.

STATUS OF PROJECT: Complete

PROGRESS OF PROJECT:

Anticipated starting date: April 1988

Actual starting date: April 1988

Expected completion date: June 1989

Actual completion date: September 1990

**NATIONAL RAINFOREST CONSERVATION PROGRAM
FINANCIAL REPORT**

Project: N54 0947 ROBERTSON N.R. REHAB

AGREED ALLOCATION:

YEAR	C'WEALTH	STATE	TOTAL
1986/87			0
1987/88	2,500	2,500	5,000
1988/89	15,000	15,000	30,000
1989/90			0
1990/91			0
Total	17,500	17,500	35,000

FUND TRANSFERS:

No fund transfers to or from this project.

ACTUAL LEDGER BALANCE:

YEAR	CONTRIBUTION ADDED	ACTUAL EXPENDITURE	BALANCE
1986/87			0.00
1987/88	2,500	4,727.51	(2,227.51)
1988/89	32,500	26,974.33	3,298.16
1989/90	0	4,917.16	(1,619.00)
1990/91			(1,619.00)
1991/92			(1,619.00)
Total	35,000	36,619.00	(1,619.00)

COMMENTS ON BALANCE:

Amount overexpended to be covered by underexpenditures in other projects.

"IN KIND" FUNDING:

Project supervision and administration provided by NPWS.

OTHER FUNDING SOURCES:

Planting Native Species

Tree planting is a successful method for regenerating badly degraded areas or for extending the perimeters of rainforest remnants.

Selection of Plants

Only native species already present in the rainforest remnant should be planted. These local natives are well suited to the climate and soil type of the Robertson area. Also, they will ensure that the true character of the Yarrawa Brush is maintained. Exotic plants should be avoided as they can become major weed problems.

Planting

Initially you will need to plant dense clusters of quick growing colonising plants. This will produce a closed canopy to protect and shelter the more sensitive rainforest species. Hardier species such as Blackwood Wattle (*Acacia melanoxylon*) are well suited for this task.

Mulching the soil around your planted trees and the use of native ground cover species will help provide protection against soil erosion and the invasion of weeds.

When your colonising plants are well established, slow growing trees may be added such as Lilly Pilly (*Acmena smithii*), Coachwood (*Ceratopetalum apetalum*), Pittosporum (*Pittosporum undulatum*) and Sassafras (*Doryphora sassafras*).

Propagation of Native Species

Have you considered propagating your own seedlings from the rainforest on your property? The Blackwood Wattle is a quick and easy plant to propagate. Seeds can be collected when pods are dry and the seeds hard and black.

Before sowing, Acacia seeds require treatment to soften their hard coating and assist germination. This simple procedure involves placing the seeds in a container, pouring boiling water onto them and leaving them to soak for 2 hours or overnight. Plant in a tray of well drained potting mix, covering them to twice their thickness.

Maintenance

The success of your tree planting project will depend on ensuring regular maintenance is undertaken such as weeding, watering and tree protection.

The amount of maintenance will be reduced once a closed canopy is formed, creating a suitable environment for native plants to further establish themselves.

Accordingly, it is suggested that the size of your planting area be governed by your availability of time to engage in follow-up maintenance.

Further Advice

This leaflet only provides a brief outline to protecting rainforest remnants of the Robertson district.

For further advice on the management and rehabilitation of rainforest remnants please contact:

National Parks and Wildlife Service
24 Berry Street
PO Box 707
NOWRA NSW 2541
Phone: (044) 219969
(048) 877270

A visit to Robertson Nature Reserve will give you an appreciation of the diversity and beauty of rainforest which is protected from livestock and encroaching weeds.



Published by NSW National Parks and Wildlife Service
PO Box 1967 Humeville NSW 2220. May 1989

NOWRA DISTRICT



Protecting Robertson's Rainforest Remnants



Through a community effort -

the last remnants of the Yarrawa

Brush can be preserved.

NSW
NATIONAL
PARKS AND
WILDLIFE
SERVICE

Protecting Robertson's Rainforest Remnants

Robertson Nature Reserve

The National Parks and Wildlife Service (NPWS) is undertaking a long-term rehabilitation programme to protect this valuable rainforest remnant south of Robertson. This and several rainforest patches on private property are all that remain of the once 2 500 hectare Yarrowa Brush.

The margins of the Reserve in particular have been degraded by introduced plants. These 'weeds' (or unwanted plants) have spread into the forest by people dumping garden clippings and from seeds transported by birds from local gardens. Common weeds in the Reserve include the Small Leaf Privet (*Ligustrum sinense*), English Ivy (*Hedera helix*), Japanese Honeysuckle (*Lonicera japonica*) and Radiata Pine (*Pinus radiata*).

The rehabilitation programme involves careful weeding and management to promote native regeneration and prevent the further spread of exotic plants.

How you can help

Prevent the spread of weeds into nearby bushland by following these few simple guidelines:

- Carefully select the garden plants you grow. There are many advantages in growing native plants as not only do they help prevent the spread of weeds but they are also attractive and encourage native wildlife.
- Avoid dumping lawn and garden clippings as they often spread quickly into the bush. It is better to compost clippings and fertilise your garden instead.
- Check to see if your garden is a major source of weeds, or maybe there is a valuable area of forest on your property that needs protection. This pamphlet provides some guidelines for land owners to protect and enhance the conservation values of rainforests on their properties.

Community Effort

Through a community effort, the last remnants of the Yarrowa Brush can be preserved.

Although Robertson Nature Reserve is being rehabilitated by the NPWS, there are several other rainforest remnants on private land which also need protection (see map). The long-term survival of these remnants will require careful management, particularly to avoid a takeover by aggressive seeds.

Preserving these remnants on private land not only assists wildlife conservation but also provides benefits to the landowner. Some of these benefits include erosion control, the maintenance of water catchments and provision of natural windbreaks.

Preparation Guidelines

Before commencing a regeneration project, the following preparation is necessary.

- Fence areas adjacent to grazing livestock to allow for natural regeneration. This will prevent trampling of vegetation, soil compaction and erosion.
- Get to know the plants on your property. Some weeds and native plants look very similar, therefore avoid removing any plants you cannot identify.
- Prepare a plan for the careful regeneration of your rainforest remnant. Consider the amount of time and resources you have available. Keep in mind that increased damage can result from having to abandon your project due to lack of time for followup maintenance.
- Keep a diary and photographic record of your regeneration work as this will help to assess the rate of progress.

Removal of Exotic Weeds

Exotic weeds can infest the forest in the form of trees, vines and groundcovers. The establishment of these weeds in rainforest areas can be directly associated with the disturbance of the forest canopy and understorey. This favours weed growth through increased sunlight and soil exposure. Therefore, the first priority in rehabilitating rainforest is to eliminate any gaps in the canopy. This is essential as rainforests require a closed canopy to produce the necessary shade, humidity and soil moisture for their existence.

Weed removal can be undertaken by a combination of hand weeding and the careful use of low-toxicity biodegradable herbicides. Mature exotic trees such as Privet (*Ligustrum sinense*, *L. lucidum*) should not be felled within the rainforest as they can cause unacceptable damage to the surrounding native vegetation. The usual method is frilling the trunk with deep downward axe cuts and injecting immediately with a herbicide such as Roundup. For smaller trees, the stem may be cut and the stump painted with herbicide. Seedlings under one metre tall can usually be pulled out by hand, providing all non-fibrous roots are removed.

Your approach to weed removal will determine whether you are successful in regenerating the bush. Keep an emphasis on quality rather than quantity. Some helpful guidelines are:

- Take care not to disturb the canopy, soil or existing native vegetation.
- Work in stages, always allowing yourself sufficient time to undertake followup weeding.
- Scattered weeds can be removed easily requiring little followup maintenance. In these areas abundant native plants and seeds favour native regeneration.
- Dense weed-infested areas require a high degree of maintenance. The increased sunlight and abundant weed seeds favour weed growth. These sites mostly require tree planting to establish a quick canopy and reduce weed competition. Work from weed free areas into weed infested areas.

NATIONAL RAINFOREST CONSERVATION PROGRAM

PROJECT TITLE: Comerong Island Restoration
and Access Control.

COMMONWEALTH I.D.: N55

STATE PROJECT CODE: 0948

PROJECT CATEGORY: Planning and Management.

LOCATION: Shoalhaven Heads.

DISTRICT: Nowra

LAND TENURE: Nature Reserve.

PROJECT OBJECTIVES: To progressively eradicate lantana from a significant stand of littoral rainforest in Comerong Island Nature Reserve and to avoid peripheral disturbance by closing off vehicular access. Some pilfering of palms has occurred and this will be prevented by fencing, and planting of local species.

COMMUNITY BENEFIT: Valuable Educational Resource Protected.

PROJECT DESCRIPTION: There is a very great need to facilitate natural regeneration processes by hand removal of the lantana and closure of a vehicle access track. This will have to take place over a number of years to continue removal of regenerating lantana and will involve the employment of people with an interest and some skills in hand removal techniques.

STATUS OF PROJECT: Complete

PROGRESS OF PROJECT:

Anticipated starting date: January 1988

Actual starting date: January 1988

Expected completion date: April 1988

Actual completion date: April 1988

ACHIEVEMENT OF OBJECTIVES: Objectives were achieved.

OUTLINE ANY CHANGES IN PROJECT CONTENT:

No changes to original project content.

AUTHORITY FOR CHANGES: Not Applicable.

OTHER COMMENTS:

Weed control and rainforest rehabilitation completed to the extent of available funds. Community support and volunteer maintenance group is being promoted to assist with the ongoing need for rehabilitation works.

NATIONAL RAINFOREST CONSERVATION PROGRAM
FINANCIAL REPORT

Project: N55 0948 COOMERANG IS. WEED ERADICATION

AGREED ALLOCATION:

YEAR	C'WEALTH	STATE	TOTAL
1986/87			0
1987/88	6,000	6,000	12,000
1988/89	6,000	6,000	12,000
1989/90			0
1990/91			0
Total	12,000	12,000	24,000

FUND TRANSFERS:

No fund transfers to or from this project.

ACTUAL LEDGER BALANCE:

YEAR	CONTRIBUTION ADDED	ACTUAL EXPENDITURE	BALANCE
1986/87			0.00
1987/88	6,000	13,505.89	(7,505.89)
1988/89	18,000	10,024.27	469.84
1989/90	0	6,089.17	(5,619.33)
1990/91			(5,619.33)
1991/92			(5,619.33)
Total	24,000	29,619.33	(5,619.33)

COMMENTS ON BALANCE:

Amount overexpended to be covered by underexpenditures in other projects.

"IN KIND" FUNDING:

Project supervision and administration provided by NPWS.

OTHER FUNDING SOURCES:

NATIONAL RAINFOREST CONSERVATION PROGRAM

PROJECT TITLE: Moore Park - Restoration and Visitor Facilities.

COMMONWEALTH I.D.: N56

STATE PROJECT CODE: 0958

PROJECT CATEGORY: Planning and Management.

LOCATION: Moore Park - Kyogle.

DISTRICT: Lismore.

LAND TENURE: Proposed Nature Reserve Present Trustees (Kyogle Shire Council) have agreed to Nature Reserve proposal.

PROJECT OBJECTIVES: 1. eradicate smothering noxious vines
2. rainforest replanting
3. provision of appropriate visitor facilities.
4. high quality interpretive display

COMMUNITY BENEFIT: 1. enhancement of potential tourist attraction.
2. improved management of important rainforest remnant.

PROJECT DESCRIPTION: The project will comprise:-
1. weed/exotic plant eradication especially smothering vine infestation.
2. construction of visitor facilities, including vehicle control barriers.
3. provision of a high quality interpretive display.
4. fencing of parts of reserve to prevent cattle intrusion.

STATUS OF PROJECT: Complete

PROGRESS OF PROJECT:

Anticipated starting date: late 1988

Actual starting date: late 1988

Expected completion date: June 1989

Actual completion date: February 1990

ACHIEVEMENT OF OBJECTIVES: Objectives were achieved.

OUTLINE ANY CHANGES IN PROJECT CONTENT:

Originally it was envisaged that fencing would be required to keep out straying cattle however cattle have not been found to be a major problem and fencing was considered unnecessary.

AUTHORITY FOR CHANGES:

Verbal agreement with Commonwealth liaison officers.

OTHER COMMENTS:

Moore Park has now been dedicated as a Nature Reserve

Significant rainforest rehabilitation and picnic area maintenance was carried out in the Reserve. A list of 8 exotic plant species were identified and including Balloon Vine, Cat Claw Vine and Madeira Vine.

Spectacular success was achieved with the removal of Balloon Vine from the rainforest edge and the main rainforest canopy. Cats Claw Vine and Madeira Vine were also successfully treated. The removal of the exotic species from this reserve has been very successful and the reserve is now virtually in a maintenance mode. More work will be required to maintain this status. A small rainforest nursery is established and one hectare of cleared land on the margin of the reserve was planted with plant material from the reserve.

The picnic area facilities were also rehabilitated with new toilets, galley, tables and fireplaces constructed and the area grassed and levelled. Comments from the local shire residents and users of the park have been very complementary.

NATIONAL RAINFOREST CONSERVATION PROGRAM
FINANCIAL REPORT

Project: N56 0958 MOORE PARK - VINE ERADICATION

AGREED ALLOCATION:

YEAR	C'WEALTH	STATE	TOTAL
1986/87			0
1987/88			0
1988/89	15,000	15,000	30,000
1989/90			0
1990/91			0
Total	15,000	15,000	30,000

FUND TRANSFERS:

No fund transfers to or from this project.

ACTUAL LEDGER BALANCE:

YEAR	CONTRIBUTION ADDED	ACTUAL EXPENDITURE	BALANCE
1986/87			0.00
1987/88			0.00
1988/89	20,000	27,171.05	(7,171.05)
1989/90	10,000	2,668.46	160.49
1990/91			160.49
1991/92			160.49
Total	30,000	29,839.51	160.49

COMMENTS ON BALANCE:

No outstanding commitments. Balance available to cover any overexpenditure on other projects.

"IN KIND" FUNDING:

Project supervision and administration provided by NPWS.
NPWS also provided motor vehicles, tools, and plant and equipment.
District staff provided most of the labour.

OTHER FUNDING SOURCES:

Moore Park
File
F0180

~~F/0180~~
DC/SP

**RAINFOREST REGENERATION
MOORE PARK NATURE RESERVE
LISMORE DISTRICT**

1. Introduction

As part of the National Rainforest Conservation Programme Lismore District received \$30,000 to carry out rainforest regeneration at Moore Park Nature Reserve.

This report provides a summary of the works carried out between February and May 1989 inclusive and makes recommendations for future funding and ongoing commitments.

Moore Park Nature Reserve is located 30 km north-west of Kyogle, N.S.W. The Reserve was dedicated on the 5th April, 1989 and covers nine hectares. It was acquired by the Service to protect a small gallery rainforest remnant.

MOORE PARK NATURE RESERVE
RAINFOREST REGENERATION

1990-1991 PROJECT REPORT

MARK DUNPHY
PROJECT

SUPERVISOR

1.0 INTRODUCTION

This report is to be used as a follow-on from the first report (F/0180 DC/SP) for work carried out between February and May, 1989.

The 1990-91 program ran from September, 1990 to June, 1991 and was funded through the National Rainforest Conservation Program to the tune of \$20,000.

The report outlines the work carried out in 1990-91, assesses the results and makes recommendations for future management.

All background information such as vegetation, geology and history is described in the 1989 report.

A set of slides showing aspects of the program accompanies this report.

2.0 THE PROGRAM

2.1 The 1990-91 program ran for nine months on a one day a week basis. Three team members were employed Andrew Moy, Stephanie Newman and Mark Dunphy. Len Hampton worked on a voluntary and paid capacity for three months.

2.2 A priority list was prepared based on a number of factors:

a) Current and potential rate of effect a weed species is having on an area.

b) The significance of that area to the conservation value of the Reserve.

c) The achieveability of stopping this degradation and encouraging regeneration.

d) The achieveability of maintaining work carried out after the program has finished.

2.3 Using this priority system the following priorities for work were developed (see Map 1 for location of sites and blocks).

NATIONAL RAINFOREST CONSERVATION PROGRAM

PROJECT TITLE: Stotts Island - Weed Eradication

COMMONWEALTH I.D.: N57

STATE PROJECT CODE: 0926

PROJECT CATEGORY: Planning and Management.

LOCATION: 10km east of Murwillumbah Tweed
River N.E. of N.S.W.

DISTRICT: Lismore

LAND TENURE: Nature Reserve.

PROJECT OBJECTIVES: To eradicate major infestation of
weeds to preserve a scientifically
important stand of rainforest.

COMMUNITY BENEFIT: Conservation and management of
important lowland subtropical
rainforest nature reserve.

PROJECT DESCRIPTION: (i) Preparation of work plan.
(ii) Weed eradication by various
appropriate methods (mainly
groundsel, rubber trees).
(iii) Gap filling, planting if
necessary.

STATUS OF PROJECT: Complete

PROGRESS OF PROJECT:

Anticipated starting date: late 1987

Actual starting date: early 1988

Expected completion date: June 1988

Actual completion date: February 1990

ACHIEVEMENT OF OBJECTIVES: Objectives were achieved.

OUTLINE ANY CHANGES IN PROJECT CONTENT:

No changes to original project content.

AUTHORITY FOR CHANGES: Not Applicable.

OTHER COMMENTS:

Infestations of Madeira Vine, Cats Claw Vine, Climbing Asparagus Fern and Morning Glory have been treated on Stotts Island Nature Reserve. Major inroads have been made into the control of these vines. The Reserve is now into a maintenance mode and it is expected that further infestations can be controlled by small follow-up maintenance work.

NATIONAL RAINFOREST CONSERVATION PROGRAM
FINANCIAL REPORT

Project: N57 0926 WEED ERADICATION STOTTS IS.

AGREED ALLOCATION:

YEAR	C'WEALTH	STATE	TOTAL
1986/87			0
1987/88	10,000	10,000	20,000
1988/89			0
1989/90			0
1990/91			0
Total	10,000	10,000	20,000

FUND TRANSFERS:

No fund transfers to or from this project.

ACTUAL LEDGER BALANCE:

YEAR	CONTRIBUTION ADDED	ACTUAL EXPENDITURE	BALANCE
1986/87			0.00
1987/88	10,000	10,501.44	(501.44)
1988/89	10,000	10,564.64	(1,066.08)
1989/90			(1,066.08)
1990/91			(1,066.08)
1991/92			(1,066.08)
Total	20,000	21,066.08	(1,066.08)

COMMENTS ON BALANCE:

Amount overexpended to be covered by underexpenditures in other projects.

"IN KIND" FUNDING:

Project supervision and administration provided by NPWS.
NPWS also provided motor vehicles, tools, and plant and equipment, including the District's boat for access to the island.

OTHER FUNDING SOURCES:

RAINFOREST WEED SURVEY OF STOTTS ISLAND

CONDUCTED ON 1.11.90 AND 8.11.90

CONDUCTED BY - MARK DUNPHY
JIMMY PERMANIS
MARK TYRELL

- AIM:
1. To survey weeds over the island's rainforest to understand more fully the location, the extent and the density of weeds on Stotts Island.
 2. To record information which will be useful to locate and monitor changes of problem weed species.

- METHODS:
1. Locate sites by a description and map of access points, site description and sketch of site. All sites are marked with orange tape at access points and around the boundaries of the infestation. Boundaries are not marked where a distinct vegetation change marks the boundary of the infestation. Areas (in square metres) of infestations were approximated.
 2. Photographic points were taken at different sites (not every site). Star pickets mark the points and photos were taken at various compass bearings indicated on site survey sheets.
 3. Densities of madeira and cat's claw vine were estimated at certain sites as seedlings or leaflets per square metre. More accurate densities and density changes are recorded in a separate survey.
 4. As previous records were destroyed of work done in 1988 estimates were noted and described.
 5. Works done to February 1991 were noted.

NATIONAL RAINFOREST CONSERVATION PROGRAM

PROJECT TITLE: Border Ranges track closure
and rehabilitation.

COMMONWEALTH I.D.: N58

STATE PROJECT CODE: 0927

PROJECT CATEGORY: Planning and Management.

LOCATION: Border Ranges N.P. N.E. N.S.W

DISTRICT: Lismore.

LAND TENURE: National Park.

PROJECT OBJECTIVES: To close and rehabilitate a number
of old logging roads and tracks in
the Border Ranges National Park.

COMMUNITY BENEFIT: Restored recreational and educational
resource landscape in high visitor
use area.

PROJECT DESCRIPTION:

- (i) Physical closure by earthworks
and other appropriate means of
Bar Mountain Road, Red Scrub
Road, and Aerial Hill Trail.
- (ii) Establishment of drainage works
- (iii) Rehabilitation of roads by
planting with appropriate local
species.
- (iv) Collection and growing of
appropriate local species to be
used in rehabilitation.
- (v) Signposting and explanation of
project.

STATUS OF PROJECT: Complete

PROGRESS OF PROJECT:

Anticipated starting date: late 1987

Actual starting date: late 1987

Expected completion date: June 1988

Actual completion date: June 1988

ACHIEVEMENT OF OBJECTIVES: Objectives were achieved.

OUTLINE ANY CHANGES IN PROJECT CONTENT:
No changes to original project content.

AUTHORITY FOR CHANGES: Not Applicable.

OTHER COMMENTS:
Work on this project has been completed satisfactorily. Work included, earthen barriers, cross draining and planting with windlings from the immediate vicinity. Natural regeneration of these tracks is proceeding.

**NATIONAL RAINFOREST CONSERVATION PROGRAM
FINANCIAL REPORT**

Project: N58 0927 BAR MOUNTAIN RD REHABILITATION

AGREED ALLOCATION:

YEAR	C'WEALTH	STATE	TOTAL
1986/87			0
1987/88	10,000	10,000	20,000
1988/89			0
1989/90			0
1990/91			0
Total	10,000	10,000	20,000

FUND TRANSFERS:

No fund transfers to or from this project.

ACTUAL LEDGER BALANCE:

YEAR	CONTRIBUTION ADDED	ACTUAL EXPENDITURE	BALANCE
1986/87			0.00
1987/88	10,000	17,219.07	(7,219.07)
1988/89	10,000	48,580.44	(45,799.51)
1989/90	0	37.01	(45,836.52)
1990/91			(45,836.52)
1991/92			(45,836.52)
Total	20,000	65,836.52	(45,836.52)

COMMENTS ON BALANCE:

The same workcrew was employed on this project as on N24.
Payments for these employees continued to be charged to this
project even though they were being employed on project N24.
The balances on these two projects almost cancel out.

"IN KIND" FUNDING:

Project supervision and administration provided by NPWS.
NPWS Heavy Plant and equipment was used.

OTHER FUNDING SOURCES:

NATIONAL RAINFOREST CONSERVATION PROGRAM

PROJECT TITLE: Nightcap National Park road closures and rehabilitation.

COMMONWEALTH I.D.: N59

STATE PROJECT CODE: 0928

PROJECT CATEGORY: Planning and Management.

LOCATION: Nightcap National Park. N.E. of N.S.W.

DISTRICT: Lismore.

LAND TENURE: National Park.

PROJECT OBJECTIVES: To close and rehabilitate a number of old logging tracks and roads in the Nightcap National Park.

COMMUNITY BENEFIT: Restored recreational and educational resource landscape in high visitor use area.

PROJECT DESCRIPTION: (i) Physical closure by earthworks and other appropriate means of Goorgana Road, Mackeys Road, Wallace Road, and tracks at Terania Creek.
(ii) Establishment of drainage works.
(iii) Rehabilitation of roads and tracks by planting with appropriate local species.
(iv) Collection and growing of local species to be used in rehabilitation.
(v) Signposting and explanation of project.

STATUS OF PROJECT: Complete.

PROGRESS OF PROJECT:

Anticipated starting date: late 1987

Actual starting date: early 1988

Expected completion date: June 1988

Actual completion date: June 1988

ACHIEVEMENT OF OBJECTIVES: Objectives were achieved.

OUTLINE ANY CHANGES IN PROJECT CONTENT:

No changes to original project content.

AUTHORITY FOR CHANGES: Not Applicable.

OTHER COMMENTS:

Work commenced in early February 1988 and involved ripping and drainage. Strategic rehabilitation planting was undertaken where necessary. Restoration of old eroded roads that form part of the historic Nightcap walking track has been undertaken. Work has been completed satisfactorily and natural regeneration is proceeding.

**NATIONAL RAINFOREST CONSERVATION PROGRAM
FINANCIAL REPORT**

Project: N59 0928 GOOGARNA RD REHABILITATION

AGREED ALLOCATION:

YEAR	C'WEALTH	STATE	TOTAL
1986/87			0
1987/88	10,000	10,000	20,000
1988/89			0
1989/90			0
1990/91			0
Total	10,000	10,000	20,000

FUND TRANSFERS:

No fund transfers to or from this project.

ACTUAL LEDGER BALANCE:

YEAR	CONTRIBUTION ADDED	ACTUAL EXPENDITURE	BALANCE
1986/87			0.00
1987/88	10,000	20,000.01	(10,000.01)
1988/89	10,000	(91.04)	91.03
1989/90			91.03
1990/91			91.03
1991/92			91.03
Total	20,000	19,908.97	91.03

COMMENTS ON BALANCE:

No outstanding commitments. Balance available to cover any overexpenditure on other projects.

"IN KIND" FUNDING:

Project supervision and administration provided by NPWS.
NPWS also provided motor vehicles, tools, and the use of Heavy Plant and equipment.

OTHER FUNDING SOURCES:

NATIONAL RAINFOREST CONSERVATION PROGRAM

PROJECT TITLE: Oxley Wild Rivers National Park
- Budds Mare Creek facilities and
walking tracks.

COMMONWEALTH I.D.: N63

STATE PROJECT CODE: 0964

PROJECT CATEGORY: Planning and Management.

LOCATION: Oxley Wild Rivers National Park.

DISTRICT: Armidale

LAND TENURE: National Park.

PROJECT OBJECTIVES: Provide public access and
interpretive facilities to increase
public appreciation of dry rainforest

COMMUNITY BENEFIT: Improve public understanding on a
little known rainforest type.

PROJECT DESCRIPTION: 1. Provide public access by vehicle
to within 250 metres of an out-
standing area of dry rainforest.

2. Provide picnic/rest area
facilities at a site adjacent to
a rainforest area.

3. Provide effective interpretation
of the rainforest by
constructing 1200 metres of
walking track and provide inter-
pretive information.

STATUS OF PROJECT: Complete

PROGRESS OF PROJECT:

Anticipated starting date: late 1988

Actual starting date: late 1988

Expected completion date: June 1989

Actual completion date: December 1989

ACHIEVEMENT OF OBJECTIVES: Objectives were achieved.

OUTLINE ANY CHANGES IN PROJECT CONTENT:

No changes to original project content.

AUTHORITY FOR CHANGES: Not Applicable.

OTHER COMMENTS:

Funds allocated to the project have been expended. The access road and picnic area are completed. The lookout platform and rainforest walk were completed by works staff before the summer holidays in 1989. Plans of the facility are attached.

NATIONAL RAINFOREST CONSERVATION PROGRAM
FINANCIAL REPORT

Project: N63 0964 O.W.R.N.P. - BUD'S MARE WALK

AGREED ALLOCATION:

YEAR	C'WEALTH	STATE	TOTAL
1986/87			0
1987/88			0
1988/89	10,000	10,000	20,000
1989/90			0
1990/91			0
Total	10,000	10,000	20,000

FUND TRANSFERS:

No fund transfers to or from this project.

ACTUAL LEDGER BALANCE:

YEAR	CONTRIBUTION ADDED	ACTUAL EXPENDITURE	BALANCE
1986/87			0.00
1987/88			0.00
1988/89	20,000	19,229.60	770.40
1989/90			770.40
1990/91			770.40
1991/92		(0.80)	771.20
Total	20,000	19,228.80	771.20

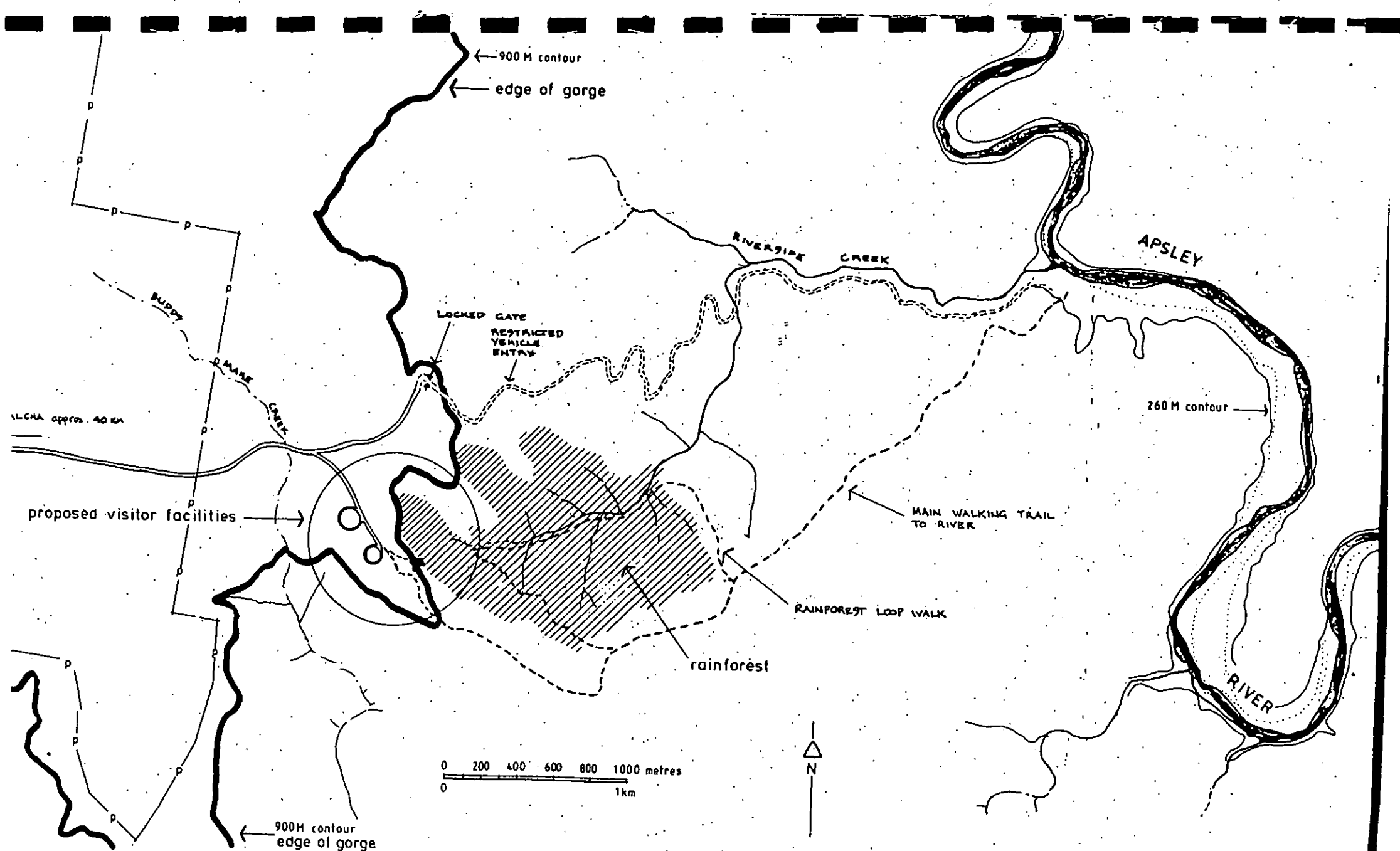
COMMENTS ON BALANCE:

No outstanding commitments. Balance available to cover any overexpenditure on other projects. The credit in 1990/91 highlights the problems of leaving these accounts open.

"IN KIND" FUNDING:

Project supervision and administration provided by NPWS.
NPWS also provided motor vehicles, tools, and plant and equipment.

OTHER FUNDING SOURCES:



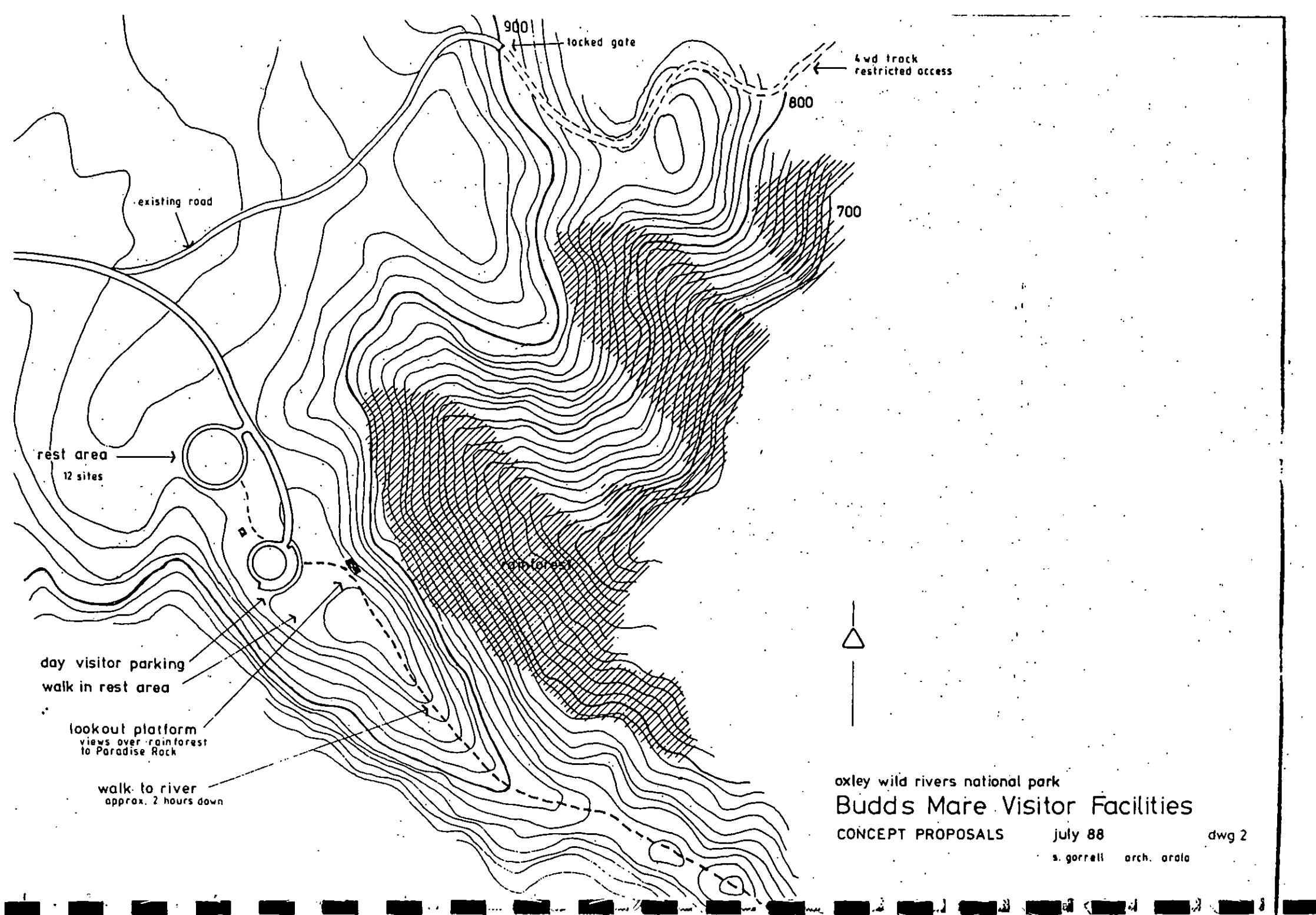
oxley wild rivers national park
Budds Mare Visitor Facilities

CONCEPT PROPOSALS
 for NSW NP&WS

july 1988

dwg 1

S. Gorrall



NATIONAL RAINFOREST CONSERVATION PROGRAM

PROJECT TITLE: Limeburners Creek Nature Reserve
- Big Hill Littoral Rainforest
Rehabilitation.

COMMONWEALTH I.D.: N64

STATE PROJECT CODE: 0917

PROJECT CATEGORY: Planning and Management.

LOCATION: Limeburners Creek Nature Reserve
north of Port Macquarie.

DISTRICT: Port Macquarie.

LAND TENURE: Nature Reserve

PROJECT OBJECTIVES: Weed control and rehabilitation
of an important stand of littoral
rainforest on Big Hill.

COMMUNITY BENEFIT: (i) Enhancement of wind break
fencing on seaward side of
rainforest.

(ii) Conservation and management
of littoral rainforest stand.

PROJECT DESCRIPTION: 1. Erection of wind break fencing
on seaward side of rainforest.
2. Planting of appropriate
rainforest colonising species.
3. Removal of smothering bitou
bush.

STATUS OF PROJECT: Complete

PROGRESS OF PROJECT:
Anticipated starting date: late 1987
Actual starting date: late 1987

Expected completion date: June 1988
Actual completion date: October 1988

ACHIEVEMENT OF OBJECTIVES: Objectives were achieved.

OUTLINE ANY CHANGES IN PROJECT CONTENT:

No changes to original project content.

AUTHORITY FOR CHANGES: Not Applicable.

OTHER COMMENTS:

Bitou bush control has been undertaken and plantings carried out to protect the edge to this important littoral rainforest.

NATIONAL RAINFOREST CONSERVATION PROGRAM
FINANCIAL REPORT

Project: N64 0917 BIG HILL WEED CONTROL

AGREED ALLOCATION:

YEAR	C'WEALTH	STATE	TOTAL
1986/87			0
1987/88	5,000	5,000	10,000
1988/89			0
1989/90			0
1990/91			0
Total	5,000	5,000	10,000

FUND TRANSFERS:

No fund transfers to or from this project.

ACTUAL LEDGER BALANCE:

YEAR	CONTRIBUTION ADDED	ACTUAL EXPENDITURE	BALANCE
1986/87			0.00
1987/88	5,000	10,032.14	(5,032.14)
1988/89	5,000	33.98	(66.12)
1989/90			(66.12)
1990/91			(66.12)
1991/92			(66.12)
Total	10,000	10,066.12	(66.12)

COMMENTS ON BALANCE:

Amount overexpended to be covered by underexpenditures in other projects.

"IN KIND" FUNDING:

Project supervision and administration provided by NPWS.
NPWS also provided motor vehicles, tools, and plant and equipment.

OTHER FUNDING SOURCES:

NATIONAL RAINFOREST CONSERVATION PROGRAM

PROJECT TITLE: Boorganna Nature Reserve.
COMMONWEALTH I.D.: N65
STATE PROJECT CODE: 0918
PROJECT CATEGORY: Planning and Management.
LOCATION: 50km S.W. of Port Macquarie District
DISTRICT: Port Macquarie.
LAND TENURE: Nature Reserve.

PROJECT OBJECTIVES: To provide basic facilities at this accessible rainforest area. This area is safely accessible by bus and could become an important educational study area. Provide roadside facilities and walking track loop.

COMMUNITY BENEFIT: (i) Improved tourism and educational benefits.
(ii) Improved recreational opportunities.

PROJECT DESCRIPTION: 1. Careful locational planning of an extension loop walking track to take advantage of waterfall.
2. Provision of basic visitor use facilities - toilet, tables, fire places.
3. Signposting/interpretation.

STATUS OF PROJECT: Complete

PROGRESS OF PROJECT:
Anticipated starting date: late 1987
Actual starting date: late 1987

Expected completion date: June 1988
Actual completion date: December 1988

ACHIEVEMENT OF OBJECTIVES: Objectives were achieved.

OUTLINE ANY CHANGES IN PROJECT CONTENT:
No changes to original project content.

AUTHORITY FOR CHANGES: Not Applicable.

OTHER COMMENTS:

The walking track was extended to the base of Rawsons Falls to increase the appeal and interpretation opportunities in this important rainforest remnant. The viewing platform has been constructed. Interpretive planning has been completed and signs have been erected. Fencing has been constructed to protect the rainforest and to improve access to the park. The improvements were officially opened on the 12th March 1990.

**NATIONAL RAINFOREST CONSERVATION PROGRAM
FINANCIAL REPORT**

Project: N65 0918 VISITOR FACILITIES - BOORGANNA

AGREED ALLOCATION:

YEAR	C'WEALTH	STATE	TOTAL
1986/87			0
1987/88	22,500	22,500	45,000
1988/89			0
1989/90			0
1990/91			0
Total	22,500	22,500	45,000

FUND TRANSFERS:

An official project variation was made to the 1987/88 program to transfer \$10,000 from project N22 to this project.

ACTUAL LEDGER BALANCE:

YEAR	CONTRIBUTION ADDED	ACTUAL EXPENDITURE	BALANCE
1986/87			0.00
1987/88	17,500	34,673.47	(17,173.47)
1988/89	27,500	10,188.24	138.29
1989/90			138.29
1990/91			138.29
1991/92			138.29
Total	45,000	44,861.71	138.29

COMMENTS ON BALANCE:

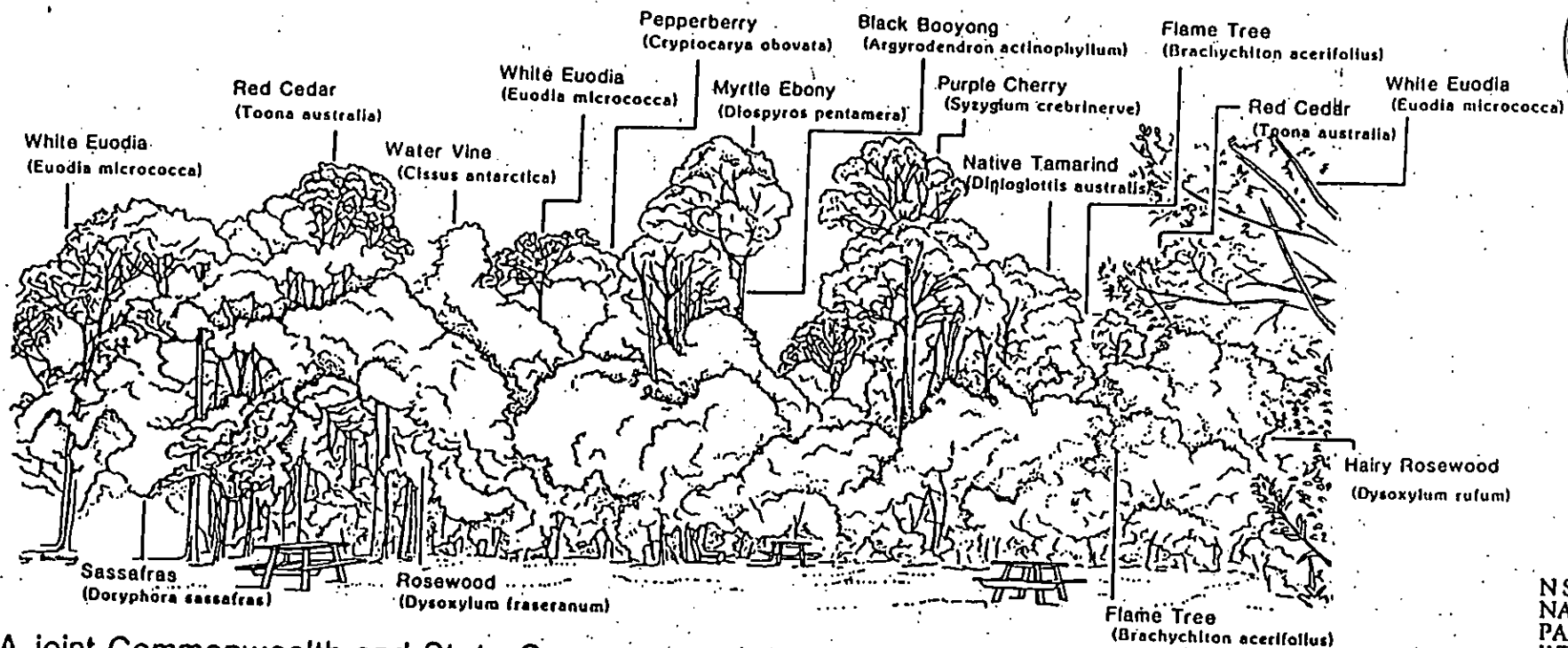
No outstanding commitments. Balance available to cover any overexpenditure on other projects.

"IN KIND" FUNDING:

Project supervision and administration provided by NPWS.
NPWS also provided motor vehicles, tools, and plant and equipment.

OTHER FUNDING SOURCES:

BOORGANNA NATURE RESERVE

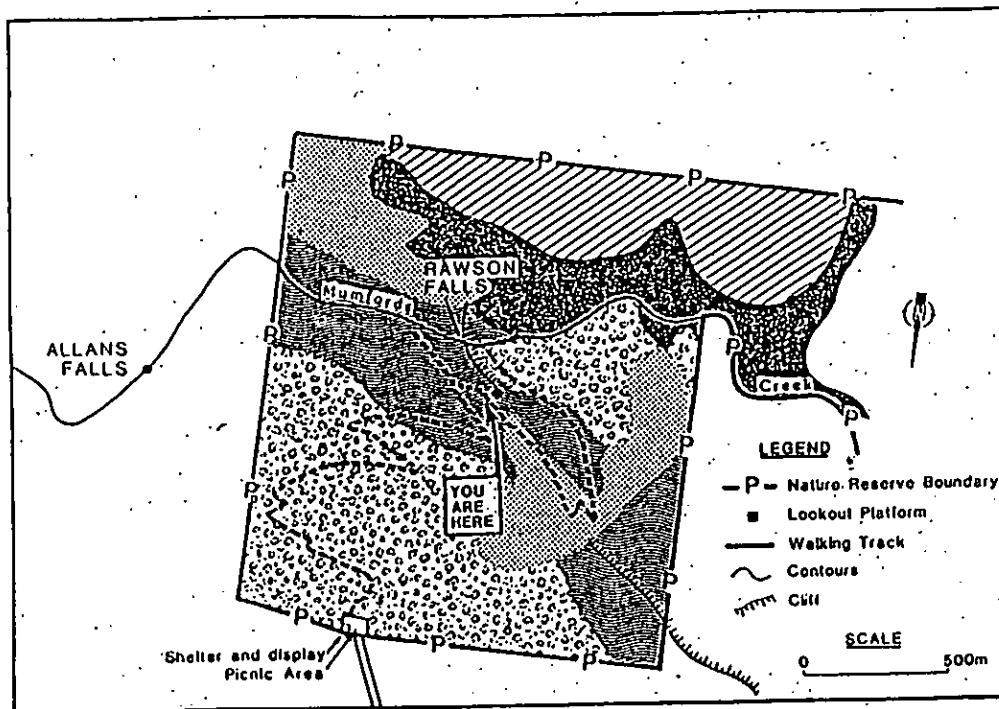


A joint Commonwealth and State Government project
of the National Rainforest Conservation Program.

NSW
NATIONAL
PARKS AND
WILDLIFE
SERVICE

DESIGN BY NORTHERN REGION

THE MAGIC OF BOORGANNA



BOORGANNA NATURE RESERVE

DESIGN BY NORTHERN REGION

The walk through Boorganna Nature Reserve provides a rare opportunity to experience the kaleidoscope of moist forests in N.S.W. You are now in warm temperate rainforest, characterised by regular patterns of Coachwood and Sassafras trees. This contrasts with the subtropical rainforest you have just walked through.

Let Boorganna's magic work on you. Visit the nearby Falls Lookout, then why not venture down to the base of the falls 1 km away? The track passes through giant eucalypt forest and a valley of Birds Nest Ferns to reach the creek below.

FOREST PATTERNS shown on the map are

- SUB TROPICAL RAINFOREST
- WARM TEMPERATE RAINFOREST
- DRY & GULLY RAINFOREST
- WET EUCALYPT FOREST
- DRY EUCALYPT FOREST

NSW
NATIONAL
PARKS AND
WILDLIFE
SERVICE

NATIONAL RAINFOREST CONSERVATION PROGRAM

PROJECT TITLE: Iluka Nature Reserve - Littoral Rainforest Walk.

COMMONWEALTH I.D.: N67

STATE PROJECT CODE: 0915

PROJECT CATEGORY: Planning and Management.

LOCATION: Iluka Nature Reserve and Bundjalung National Park.

DISTRICT: Grafton.

LAND TENURE: Nature Reserve and National Park.

PROJECT OBJECTIVES: (i) Improvement of existing rainforest walk in Iluka Nature Reserve.
(ii) Extension of this walk on Iluka peninsula through other littoral rainforest remnants.

COMMUNITY BENEFIT: 1. Enhancement of a potential tourist attraction.
2. Assist public understanding through interpretation of littoral rainforest.

PROJECT DESCRIPTION: 1. Extension and improvement of existing littoral rainforest walking track.
2. Construction of walking track to link littoral rainforest stands.
3. Signposting and interpretation in which the impact of salt exposure and fire effects would be a feature.

STATUS OF PROJECT: Complete

PROGRESS OF PROJECT:

Anticipated starting date: late 1987

Actual starting date: early 1988

Expected completion date: late 1988

Actual completion date: June 1989

ACHIEVEMENT OF OBJECTIVES: Objectives were achieved.

OUTLINE ANY CHANGES IN PROJECT CONTENT:

No changes to original project content.

AUTHORITY FOR CHANGES: Not Applicable.

OTHER COMMENTS:

The original walking track was upgraded and a new link walking track through the Iluka Rainforest has been completed. A display shelter at Iluka Bluff was also constructed.

The interpretation for the rainforest walk and display shelter has been completed.

The floods experienced throughout the region in April 1989 caused considerable delay in the progress of the project.

NATIONAL RAINFOREST CONSERVATION PROGRAM
FINANCIAL REPORT

Project: N67 0915 WALKING TRACK - ILUKA N.R.

AGREED ALLOCATION:

YEAR	C'WEALTH	STATE	TOTAL
1986/87			0
1987/88	20,000	20,000	40,000
1988/89			0
1989/90			0
1990/91			0
Total	20,000	20,000	40,000

FUND TRANSFERS:

No fund transfers to or from this project.

ACTUAL LEDGER BALANCE:

YEAR	CONTRIBUTION ADDED	ACTUAL EXPENDITURE	BALANCE
1986/87			0.00
1987/88	20,000	29,427.62	(9,427.62)
1988/89	20,000	13,665.33	(3,092.95)
1989/90			(3,092.95)
1990/91			(3,092.95)
1991/92			(3,092.95)
Total	40,000	43,092.95	(3,092.95)

COMMENTS ON BALANCE:

Amount overexpended to be covered by underexpenditures in other projects.

"IN KIND" FUNDING:

Project supervision and administration provided by NPWS.
NPWS also provided motor vehicles, tools, and plant and equipment.

OTHER FUNDING SOURCES:

Walking track distances from Iluka Bluff Picnic Area to:-

Long Street, Iluka - 2.5 Km
Owen Street, Iluka - 3 Km
Caravan Park, Iluka - 2.7 Km

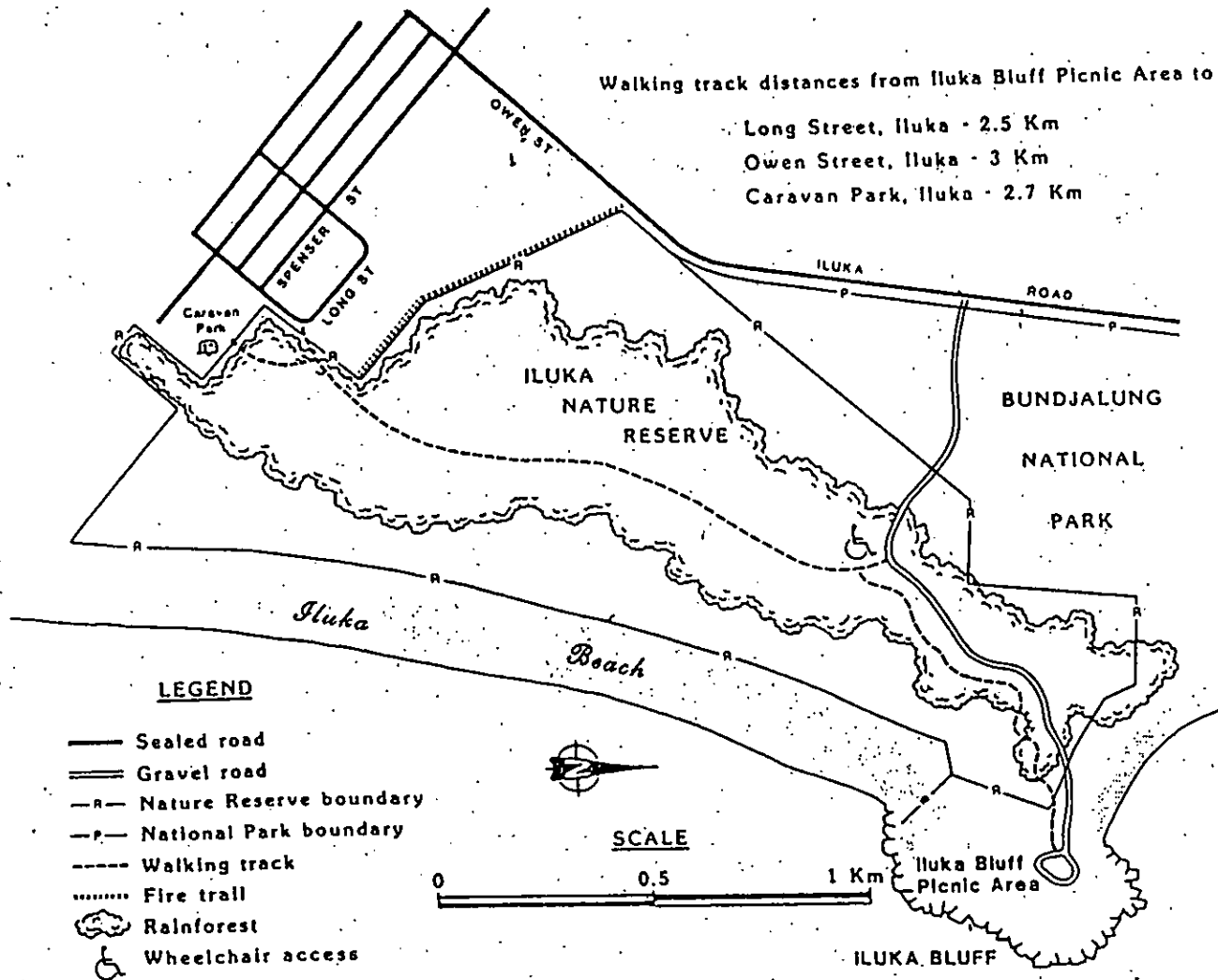


ILUKA NATURE RESERVE A World Heritage Rainforest



"Saving forever our natural and cultural heritage for you and your children to use treasure and enjoy."

This project was carried out with Commonwealth Government assistance through the National Rainforest Conservation Program.



NATIONAL RAINFOREST CONSERVATION PROGRAM

PROJECT TITLE: Rainforest Display
(i) Lismore Heritage Centre
(ii) Mobile Display...

COMMONWEALTH I.D.: N68

STATE PROJECT CODE: 0929

PROJECT CATEGORY: Interpretive and Visitor Facilities.

LOCATION: Static display: Heritage Centre,
Lismore.
Mobile display: To be available
throughout N.S.W.

DISTRICT: Lismore.

LAND TENURE: Heritage Centre: Public land
vested in Lismore
City Council.
Building funded by N.S.W. Government

PROJECT OBJECTIVES: Heritage Centre Display:
To provide a high quality
promotional display in a tourist
oriented enterprise for the purpose
of:-
(i) Providing a visitors guide to
the rainforests of New South Wales,
in particular the Lismore region;
(ii) Promoting interest in
rainforest generally and rainforest
conservation in particular;
(iii) Promotion of the National
Rainforest Conservation Program.

Mobile Display:
As for Heritage Centre (proposed as
a separate clone of the static
display).

COMMUNITY BENEFIT: (i) A tourist attraction in its own right;
(ii) Promotion of tourism in rainforest parks;
(iii) Greater community awareness of rainforest and the need for its conservation.

PROJECT DESCRIPTION: The Heritage Centre at Lismore is a major Bi-centennial project being substantially funded by the N.S.W. Government. The Centre is centrally located in the City of Lismore and will serve as a directory for tourists. Permanent exhibition space has been offered gratis to the National Parks and Wildlife Service. A high quality display with a rainforest theme is to be prepared for installation in the Heritage Centre.

A need has been identified for a mobile rainforest display to cater for rural communities. A substantial contribution will be made to the assembly of a mobile display by duplication or "cloning" components of the static display for the Heritage Centre.

By integrating the development of the static and mobile display projects, there will be substantial savings compared to independent funding and construction of the two separate projects.

STATUS OF PROJECT: Complete

PROGRESS OF PROJECT:

Anticipated starting date: late 1987

Actual starting date: late 1987

Expected completion date: June 1988

Actual completion date: February 1988 and substantially upgraded in December 1989.

ACHIEVEMENT OF OBJECTIVES: Objectives were achieved.

OUTLINE ANY CHANGES IN PROJECT CONTENT:
No changes to original project content.

AUTHORITY FOR CHANGES: Not Applicable.

OTHER COMMENTS:

A display on rainforests in the Wilson River Heritage Centre has been completed and is in place. The centre was opened in February 1988 and the display has received good reviews. The centre piece of the display is a large fibreglass model of Caldera rainforest parks.

The display themes and artwork on the World Heritage Listing and the international importance of the Eastern Australian rainforest parks have been developed.

A smaller topographic model of Tweed Caldera Rainforests has been produced and will be the drawcard in the transportable display on world heritage rainforest.

The display was revamped in December, 1989. The revisions included a repainted model with electronic lighting and locality information panels, and a large backlit photographic display of rainforest fauna and flora.

MOBILE RAINFOREST DISPLAY

MOBILE RAINFOREST DISPLAY

This project has two main components, a topographic model and a 5 panel display. Only the model has been completed at this stage, the backing display is currently being finalised.

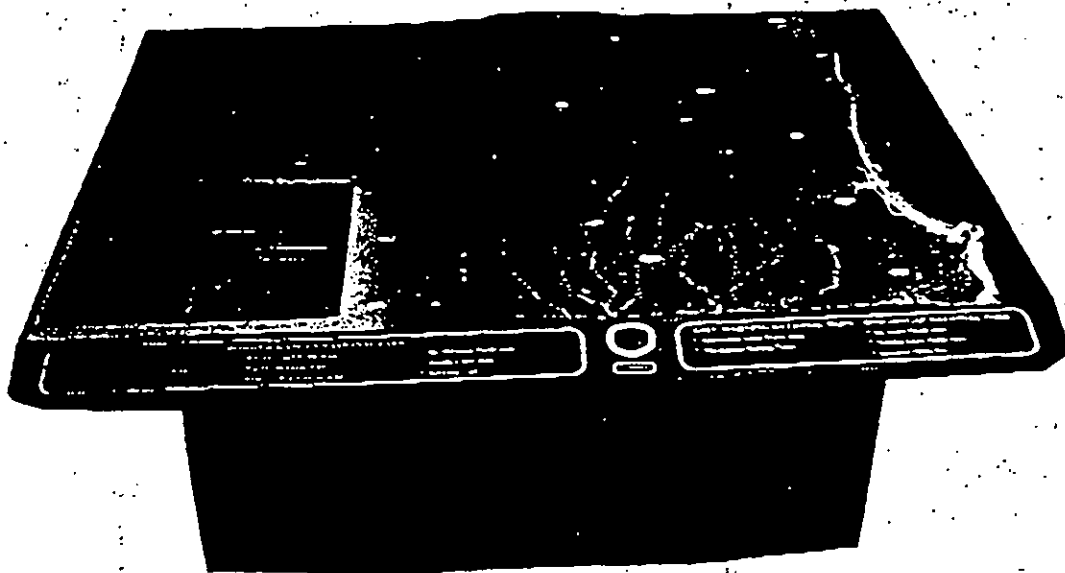
The model is at a scale of 1:50,000 and focuses on the National Parks and Nature Reserves of the extinct Mt. Warning Shield Volcano in the north-eastern corner of New South Wales. The legend which accompanies the model both illustrates and describes the natural processes which have contributed to the formation of this spectacular landform.

The arterial road network, major river systems and important urban centres are also detailed.

The model incorporates 14 LEDs on a simple electrical circuit which allows it to operate on either 240 volts or a single transistor battery. The LEDs are activated by button pressing to increase interactive behaviour by those who see the model.

The 5 panel display will incorporate a central video unit (to be activated from the model) and photographic images from the areas highlighted by the LEDs.

The entire display is demountable and easily transported.



NATIONAL RAINFOREST CONSERVATION PROGRAM
FINANCIAL REPORT

Project: N68 0929 MOBILE RAINFOREST DISPLAY

AGREED ALLOCATION:

YEAR	C'WEALTH	STATE	TOTAL
1986/87			0
1987/88	35,000	10,000	45,000
1988/89			0
1989/90			0
1990/91			0
Total	35,000	10,000	45,000

FUND TRANSFERS:

No fund transfers to or from this project.

ACTUAL LEDGER BALANCE:

YEAR	CONTRIBUTION ADDED	ACTUAL EXPENDITURE	BALANCE
1986/87			0.00
1987/88	10,000	31,639.31	(21,639.31)
1988/89	35,000	11,376.60	1,984.09
1989/90	0	3,248.35	(1,264.26)
1990/91			(1,264.26)
1991/92			(1,264.26)
Total	45,000	46,264.26	(1,264.26)

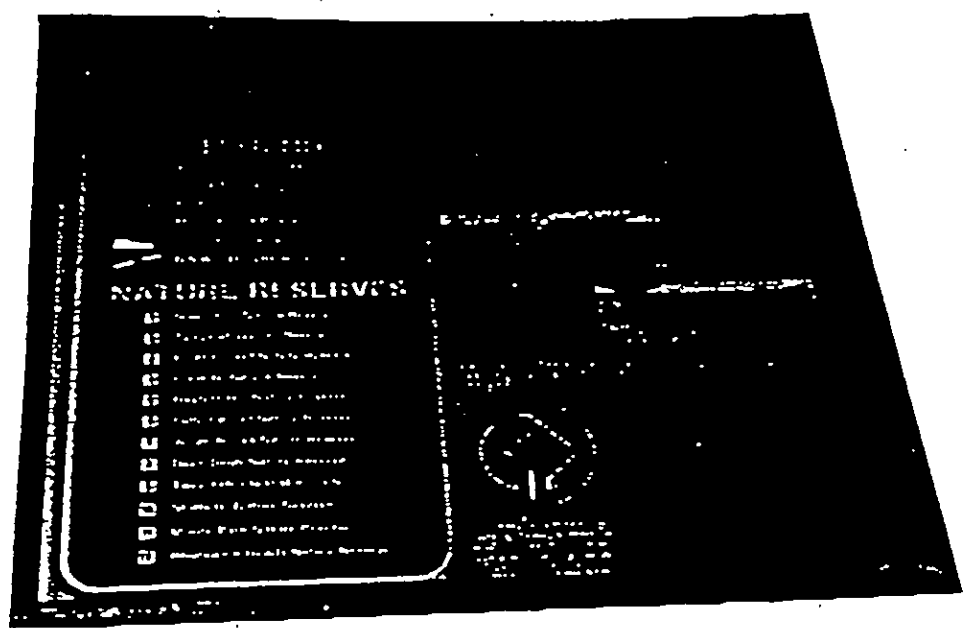
COMMENTS ON BALANCE:

Amount overexpended to be covered by underexpenditures in other projects.

"IN KIND" FUNDING:

Project supervision and administration provided by NPWS.
Regional interpretative staff were used extensively particularly for photography and developing of prints.

OTHER FUNDING SOURCES:



Spaceage View



A Blast from the Past

The Last of the Big Bang





NATIONAL RAINFOREST CONSERVATION PROGRAM

PROJECT TITLE: Educational Rainforest Video.
COMMONWEALTH I.D.: N69
STATE PROJECT CODE: 0955
PROJECT CATEGORY: Interpretive and Visitor Facilities.
LOCATION: Mobile - All parts of the State.
DISTRICT: Northern Region
LAND TENURE: Not Applicable.

PROJECT OBJECTIVES: To provide a stimulating video on rainforests, particularly World Heritage areas, for use in school and rainforest ecology areas to encourage a deeper interest in the diversity of life in rainforest.

COMMUNITY BENEFIT: Increased interest and awareness of rainforests. A readily available tool to support rainforest conservation and its promotion.

PROJECT DESCRIPTION: A high quality video on rainforest suitable for educational and promotion use. Video to cover World Heritage Listing, particularly attributes of the listed areas, management obligations, international tourist interest. The diversity of rainforest life forms and their interdependency would also be a major theme.

STATUS OF PROJECT: Complete

PROGRESS OF PROJECT:
Anticipated starting date: late 1987
Actual starting date: late 1987
Expected completion date: June 1988
Actual completion date: February 1990

ACHIEVEMENT OF OBJECTIVES: Objectives were achieved.

OUTLINE ANY CHANGES IN PROJECT CONTENT:

No changes to original project content.

AUTHORITY FOR CHANGES: Not Applicable.

OTHER COMMENTS:

Production of this rainforest film was supervised by the NSW Film Board. The contract was given to Sky Visuals (Gary Steer - Producer).

The finished product was achieved at a very low cost for a production of this quality

The film is regularly shown at the Sea Acres and Dorriggo Rainforest Centres, and is available for sale at NPWS sales outlets.

**NATIONAL RAINFOREST CONSERVATION PROGRAM
FINANCIAL REPORT**

Project: N69 0955 RAINFOREST VIDEO

AGREED ALLOCATION:

YEAR	C'WEALTH	STATE	TOTAL
1986/87			0
1987/88	20,000	20,000	40,000
1988/89			0
1989/90			0
1990/91			0
Total	20,000	20,000	40,000

FUND TRANSFERS:

No fund transfers to or from this project.

ACTUAL LEDGER BALANCE:

YEAR	CONTRIBUTION ADDED	ACTUAL EXPENDITURE	BALANCE
1986/87			0.00
1987/88	20,000	0.00	20,000.00
1988/89	20,000	44,596.17	(4,596.17)
1989/90			(4,596.17)
1990/91			(4,596.17)
1991/92			(4,596.17)
Total	40,000	44,596.17	(4,596.17)

COMMENTS ON BALANCE:

Bad weather necessitated additional field trips for filming that led to cost overrun. Amount overexpended to be covered by underexpenditures in other projects.

"IN KIND" FUNDING:

Project supervision and administration provided by NPWS.
Assistant Regional Manager and Senior Ranger Lismore provided extensive advice and input to the script and concept.

OTHER FUNDING SOURCES:

NATIONAL RAINFOREST CONSERVATION PROGRAM

PROJECT TITLE: Dorrigo National Park. Walking track and interpretive facilities (substitute project for 1987-88).

COMMONWEALTH I.D.: N70

STATE PROJECT CODE: 0638

PROJECT CATEGORY: Interpretive and visitor facilities.

LOCATION: Dorrigo National Park, Dorrigo via Coffs Harbour.

DISTRICT: Dorrigo.

LAND TENURE: National Park.

PROJECT OBJECTIVES: To increase public appreciation of rainforest by capitalising on the already high level of visitation to Dorrigo National Park. (Will complement project N41 nearby).

COMMUNITY BENEFIT: (i) Enhanced visitor experience;
 (ii) Increased tourist visitation with flow-on economic benefits to local community.

PROJECT DESCRIPTION: This project is designed to fully complement the proposed major rainforest interpretive facility, the subject of Project 41. Project 70 comprises mainly upgrading and amplification of existing popular facilities. The main elements of the project are:-
 (i) Upgrade short section of walking track to wheeled access;
 (ii) Short section of elevated boardwalk;
 (iii) Major new rainforest lookout.

STATUS OF PROJECT: Complete

PROGRESS OF PROJECT:

Anticipated starting date: early 1988

Actual starting date: late 1988

Expected completion date: late 1989

Actual completion date: early 1990

ACHIEVEMENT OF OBJECTIVES: Objectives were achieved.

OUTLINE ANY CHANGES IN PROJECT CONTENT:

No changes to original project content.

AUTHORITY FOR CHANGES: Not Applicable.

OTHER COMMENTS:

The bitumen seal on the Satin Bird Loop has been completed. Construction of the boardwalk and barrier free rainforest walk at the Glade was completed despite continued delays imposed by wet weather.

**NATIONAL RAINFOREST CONSERVATION PROGRAM
FINANCIAL REPORT**

Project: N70 0638 DORRIGO WALKS

AGREED ALLOCATION:

YEAR	C'WEALTH	STATE	TOTAL
1986/87	50,000		50,000
1987/88			0
1988/89	10,000	10,000	20,000
1989/90			0
1990/91			0
Total	60,000	10,000	70,000

FUND TRANSFERS:

This project was a late addition to the 1986/87 program and received \$50,000 from project N41 as an official program variation.

ACTUAL LEDGER BALANCE:

YEAR	CONTRIBUTION ADDED	ACTUAL EXPENDITURE	BALANCE
1986/87	0	0.00	0.00
1987/88	50,000	0.00	50,000.00
1988/89	20,000	40,151.86	29,848.14
1989/90	0	13,468.87	16,379.27
1990/91			16,379.27
1991/92			16,379.27
Total	70,000	53,620.73	16,379.27

COMMENTS ON BALANCE:

No outstanding commitments. Balance available to cover overexpenditure on N41.

This project should be looked at in conjunction with N41 the Dorrigo Rainforest Centre. This project was a late inclusion on the program due to problems with the planning of the Rainforest Centre. Some payments for this project during 1987/88 were charged to project N41.

"IN KIND" FUNDING:

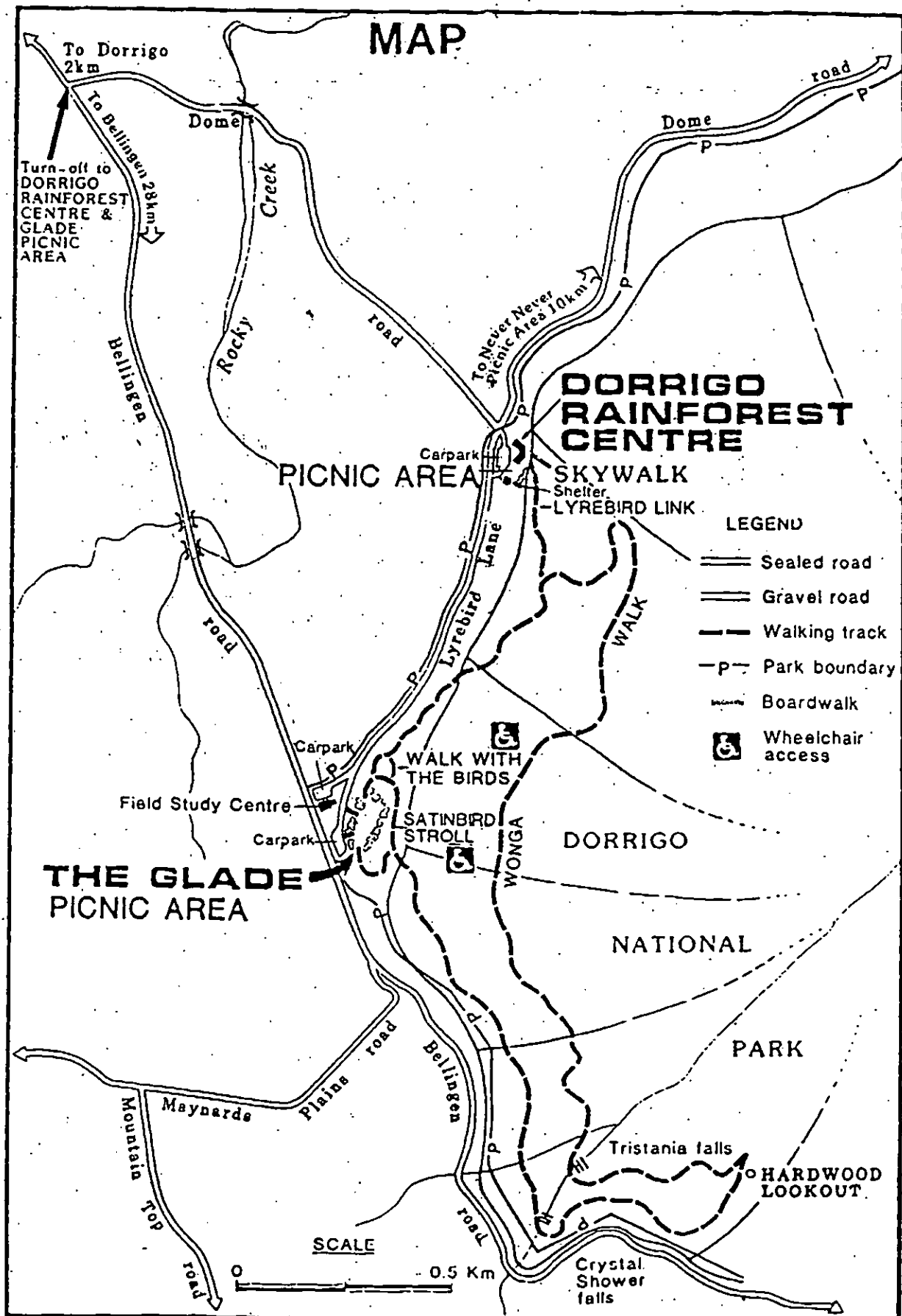
Project supervision and administration provided by NPWS. District staff were involved in construction as well as temporary staff. See N41 for more details.

OTHER FUNDING SOURCES:

See N41 for details.

DORRIGO NATIONAL PARK

WALKING TRACKS FROM DORRIGO RAINFOREST CENTRE



NATIONAL RAINFOREST CONSERVATION PROGRAM

PROJECT TITLE: Murramarang National Park -
Walking Track and Interpretive
Facilities.

COMMONWEALTH I.D.: N71

STATE PROJECT CODE: 0949

PROJECT CATEGORY: Interpretive and Visitor Facilities.

LOCATION: Murramarang National Park.

DISTRICT: Nowra

LAND TENURE: National Park.

PROJECT OBJECTIVES: - Restoration of littoral rainforest
stands.
- To facilitate public access to the
littoral and warm temperate
rainforest stands which are an
important natural and educational
resource of the park.

COMMUNITY BENEFIT: - Improved visitor access to
rainforest areas.

PROJECT DESCRIPTION: The project will include:
- Upgrading existing car parking
facilities.
- Restore damaged section of
rainforest by replanting and
fencing.
- Facilitate public access by
constructing short walks mainly
on the margins of the rainforest
and connecting these walks to
existing tracks which provide
foot access to more remote
rainforest resources.
- provide appropriate outdoor track
head interpretive displays and
brochures.

STATUS OF PROJECT: Incomplete

PROGRESS OF PROJECT:

Anticipated starting date: February 1988

Actual starting date: December 1987

Expected completion date: March 1988

Actual completion date: November 1988

ACHIEVEMENT OF OBJECTIVES:

Insufficient funding was provided to complete/achieve all objectives.

OUTLINE ANY CHANGES IN PROJECT CONTENT:

No changes were made from the original project content although all objectives not yet completed.

REASONS FOR THESE CHANGES: Insufficient funds.

AUTHORITY FOR CHANGES: Not Applicable.

OTHER COMMENTS:

This project has experienced problems due to the sensitive environment. Mechanised equipment had to be withdrawn and, as a result, the labour component of the project has been underestimated. The circular nature trail (600 metres) has about 200 metres of construction yet to be addressed. A further 100 metres is yet to be widened.

Interpretive material (information display shelter bays and signs) have been produced but are yet to be installed.

Outstanding works will cost an estimated \$10,000.

**NATIONAL RAINFOREST CONSERVATION PROGRAM
FINANCIAL REPORT**

Project: N71 0949 MURRAMARANG WALK TRACK

AGREED ALLOCATION:

YEAR	C'WEALTH	STATE	TOTAL
1986/87			0
1987/88	5,000	5,000	10,000
1988/89			0
1989/90			0
1990/91			0
Total	5,000	5,000	10,000

FUND TRANSFERS:

No fund transfers to or from this project.

ACTUAL LEDGER BALANCE:

YEAR	CONTRIBUTION ADDED	ACTUAL EXPENDITURE	BALANCE
1986/87			0.00
1987/88	5,000	9,997.52	(4,997.52)
1988/89	5,000	0.00	2.48
1989/90			2.48
1990/91			2.48
1991/92			2.48
Total	10,000	9,997.52	2.48

COMMENTS ON BALANCE:

No outstanding commitments. Balance available to cover any overexpenditure on other projects.

"IN KIND" FUNDING:

Project supervision and administration provided by NPWS.

OTHER FUNDING SOURCES:

NATIONAL RAINFOREST CONSERVATION PROGRAM

PROJECT TITLE: Investigate Fire Management of
dry rainforest margins in Oxley
Wild Rivers National Park

COMMONWEALTH I.D.: N72

STATE PROJECT CODE: 0935

PROJECT CATEGORY: Research.

LOCATION: Oxley Wild River National Park,
N.E. N.S.W.

DISTRICT: Armidale

LAND TENURE: National Park.

PROJECT OBJECTIVES: (1) To investigate the effect of
fire on the dry rainforest margins
in Oxley Wild Rivers National Park.
(2) Set up long term monitoring
procedures.
(3) Examine and advise on
appropriate fire management options.

COMMUNITY BENEFIT: Improved fire management of Oxley
Wild Rivers National Park.

PROJECT DESCRIPTION: (1) Survey of selected dry
rainforest margins representing a
range of fire regimes.
(2) Using various techniques to
examine floristic composition of
rainforests and adjacent
communities.
(3) From existing records, land
holders, and air photos establish
fire history for Oxley Wild Rivers.
(4) Design and establish field
monitoring sites.

STATUS OF PROJECT: Complete

PROGRESS OF PROJECT:

Anticipated starting date: late 1987

Actual starting date: early 1988

Expected completion date: June 1988

Actual completion date: June 1989

ACHIEVEMENT OF OBJECTIVES: Objectives were achieved.

OUTLINE ANY CHANGES IN PROJECT CONTENT:

No changes to original project content.

AUTHORITY FOR CHANGES: Not Applicable.

OTHER COMMENTS:

This project has been completed. A two day workshop was held in February 1988 and was most successful. In addition, information was sought from landowners on the history of fire in the area and changes in the fire regime and resultant impacts. Proceedings of the two day workshop and the report on the landholder fire history survey are available. Classification of rainforest patches into susceptibility classes is complete. Remote weather stations have been installed. Sampling of rainforest margins has occurred. Aerial photographic methods of monitoring were also trialled.

The project commenced behind schedule due to equipment problems.

The following reports were produced as a result of this project:

Bennett, R.J. & Cassells, D.S. 1988.
Dry-rainforests Fire Interactions:
Considerations for Research and Management.
Oxley Wild Rivers Research Consultancy
Report. February 1988.

Bennett, R.J. & Cassells, D.S. 1988.
Apsley-Macleay Gorges Fire History Survey.
Oxley Wild Rivers Research Consultancy
report. August 1988.

Bennett, R.J. & Cassells, D.S. 1989.
Characteristics and fire vulnerability
assessment of the dry rainforest in
the Apsley-Macleay Gorges. Report by
Oxley Wild Rivers Research Consultancy.
January 1989.

NATIONAL RAINFOREST CONSERVATION PROGRAM
FINANCIAL REPORT

Project: N72 0935 FIRE MANAGEMENT OXLEY WILD R.

AGREED ALLOCATION:

YEAR	C'WEALTH	STATE	TOTAL
1986/87			0
1987/88	15,000	15,000	30,000
1988/89			0
1989/90			0
1990/91			0
Total	15,000	15,000	30,000

FUND TRANSFERS:

No fund transfers to or from this project.

ACTUAL LEDGER BALANCE:

YEAR	CONTRIBUTION ADDED	ACTUAL EXPENDITURE	BALANCE
1986/87			0.00
1987/88	15,000	22,386.63	(7,386.63)
1988/89	15,000	7,925.56	(312.19)
1989/90	0	(74.54)	(237.65)
1990/91			(237.65)
1991/92			(237.65)
Total	30,000	30,237.65	(237.65)

COMMENTS ON BALANCE:

Amount overexpended to be covered by underexpenditures in other projects:

"IN KIND" FUNDING:

Project supervision and administration provided by NPWS.

OTHER FUNDING SOURCES:

RAINFORESTS



Palm Forest

N.S.W. N.P.W.S.

WORTH SAVING!

National Rainforest Conservation Program

New South Wales

WHAT WE ARE LEARNING

We are learning a lot about our rainforests. Rare rainforest plants have been located and studied. Nursery propagation of rainforest plants has been successful. These are being used for rainforest rehabilitation. An arboretum of rare rainforest plants is being created. The needs and locations of rare or uncommon rainforest frogs, lizards, birds and mammals have been identified. With the help of computer modelling, conservation strategies to protect the futures of these plants and animals are being devised, and priorities for acquisition defined. Why rainforest pigeons are decreasing in numbers is being researched, as is the interaction between rainforest remnants and fruit bats.

2, 3, 4, 5, 7, 8, 9, 14

Sea Acres Rainforest Ecology Centre



N Fenton

MORE INFORMATION FOR EVERYONE

A lot of what we've learned is being made available to the public. Two books, Rainforest Ecology and Rainforest by the Sea (Management Guidelines for Littoral Rainforest) will soon be published. A Mobile Rainforest Heritage Display is travelling to shopping centres and schools.

A workshop, presenting what we've learned about rainforests and their special needs was conducted. The proceedings of this workshop will soon be published as a manual for rainforest rehabilitation.

Three Rainforest Ecology Centres are being built near important rainforests. These centres will present to the public much of what we've learnt, and aim to be major learning facilities for rainforests, prior to visiting the real thing. They will also display the soon to be completed Rainforest Video.

17, 19, 21, 28, 38



Washpool Walk

G Biddle



Sea Acres Boardwalk

S Phillips



Rainforest Regeneration

N S W N P W S

PEOPLE IN RAINFORESTS

People like walking in rainforests. Often though, ad hoc walking trails in rainforests can cause damage. By careful and sensitive placing of walks, the wonder of rainforests can be explored while at the same time protecting them. Some of these are boardwalks, rising to the canopy on stilts, others link creekside rainforest with resting and picnic sites or access lush mountains of rainforest. Many of the walks have illustrated information panels about rainforests.

2, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 17, 19, 21, 22
23, 29, 32, 33, 34, 37, 38, 39



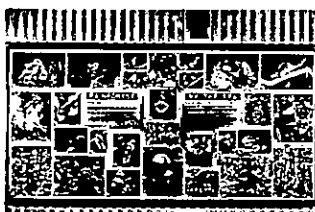
Rainforest Platform

G Biddle

REPAIRING THE PAST

Many small and fragile areas of rainforest have weeds and other problems. These areas are being rehabilitated by removing weeds and where necessary, planting local seedlings, erecting fences and interpretive signs. Damage to patches of vulnerable littoral rainforest (rainforest by the sea) is being repaired.

2, 6, 7, 8, 9, 14, 18, 20, 26, 27, 31, 32, 37



Rainforest Display

G Biddle

DIRECTING THE FUTURE

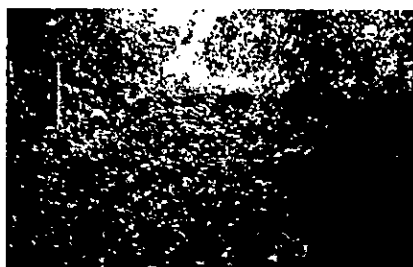
In three important areas, plant and animal resource information is being translated into management plans. These plans provide a focus for protection, and encourage individuals to participate in planning.

1, 2, 3, 4, 5, 7, 9, 13, 14, 16, 23, 30



Topknot Pigeon

G Thrello



Rainforest Rescue

D Charley



Rare Rainforest Seedlings

S Horton

NEW SOUTH WALES RAINFORESTS

HOW MUCH IS THERE?

In New South Wales, only 1/4 (or 250,000 hectares) of the rainforests that were here when European settlement began, remain.

WHAT TYPES?

On the east coast you will find sub-tropical rainforests, warm temperate rainforest, cool temperate rainforest, dry rainforest, isolated patches of littoral rainforest (rainforest by the sea), and interesting combinations.

HOW IMPORTANT ARE THEY?

Very. Sixteen of N.S.W.'s Rainforest Parks became a World Heritage area in 1986.

The sub-tropical rainforests in this State were once the most extensive in the world.

The maze of rainforest types is unique.

N.S.W.'s rainforests are important to science, to conservation and to today's society.

SAVING THE RAINFORESTS!

NATIONAL RAINFOREST CONSERVATION PROGRAM

WHAT IS IT?

A 3 year program to conserve Australian Rainforests. The program is funded jointly by the Commonwealth and State Governments.

HOW DID IT BEGIN?

In 1985, a Commonwealth Government Working Group examined policy options for rainforest conservation. Based on their recommendations, the Program began in 1986 after the Commonwealth Government provided \$22.25 million for conservation of Australian rainforests.

WHY?

Rainforests are disappearing rapidly. In Australia, rainforests are a valuable but diminishing National asset.

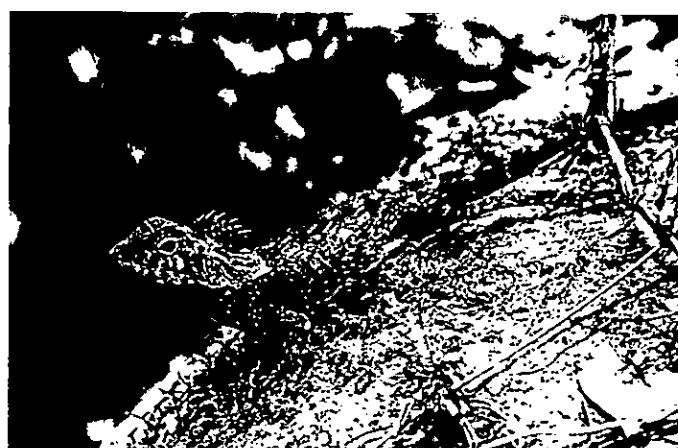
Australian rainforests are important. They are unique and irreplaceable.

They are worth saving.



Rose-crowned Fruit-dove

G Thrello



Rainforest Dragon

M Burnham

N.S.W. PROGRAM — WHAT WE'RE ACHIEVING

The National Rainforest Conservation Program in this State has met the urgent need to rehabilitate disturbed rainforests and conserve additional important areas.

Many projects are being carried out under the Program. These projects are very varied. Most facets of rainforest ecology are being explored. All project results contribute to a pool of information which is used to improve conservation management of Rainforest Parks and increase community knowledge on rainforests.

The N.S.W. Program is funded jointly by the Commonwealth and N.S.W. State Governments. Projects are undertaken by the N.S.W. National Parks and Wildlife Service and the Forestry Commission of New South Wales.



Durroby

H Nicholson

CONSERVING MORE

Important areas of rainforest have been added to the World Heritage Parks and two new Nature Reserves have been created, protecting very rare plant species not previously conserved in existing reserves.

2, 5, 7, 9



Rainforest Falls

G Biddle



Fruit Bat

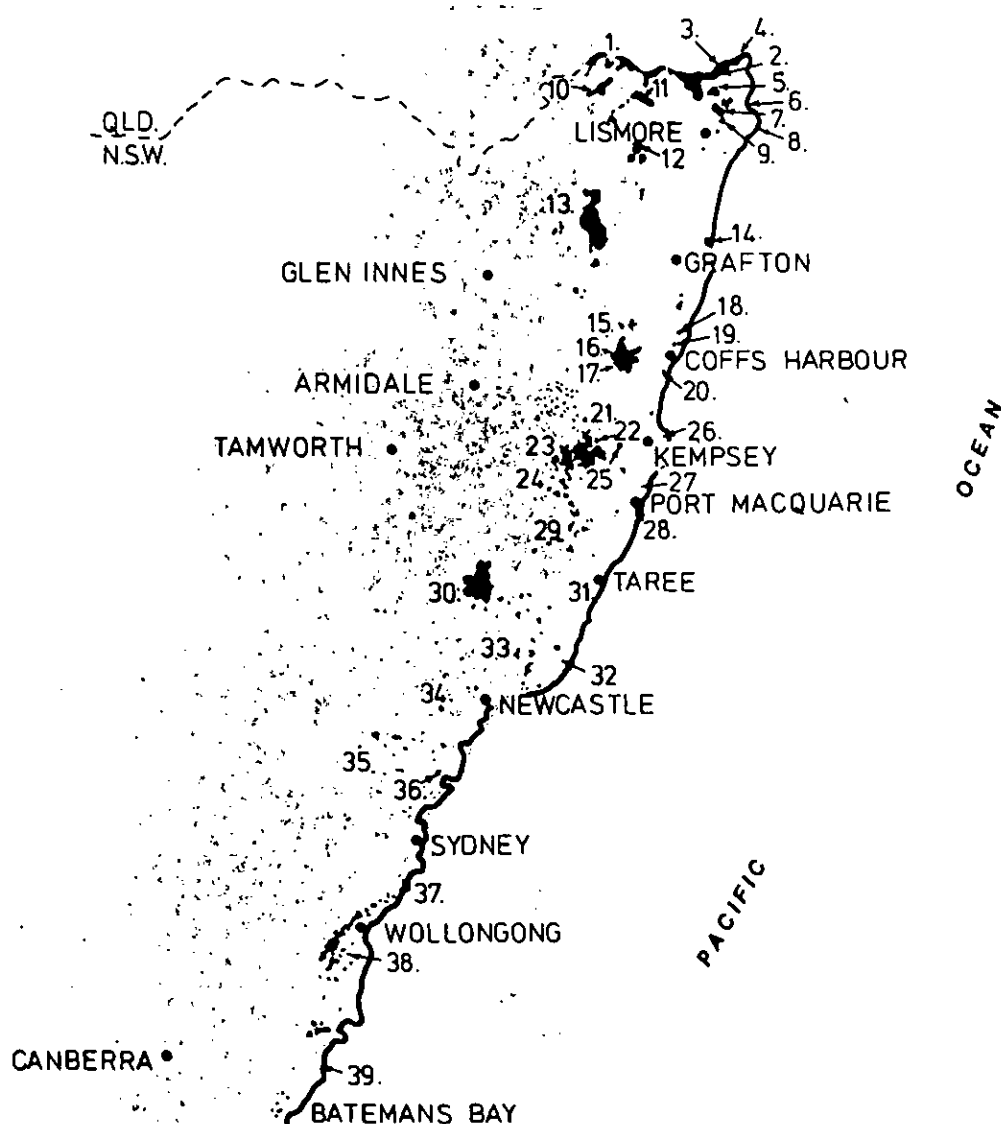
K. Parry-Jones

FINDING OUT WHAT THE PUBLIC WANT


Visitors in many areas have been surveyed to find out how they want the parks managed. The results are being combined with other information to develop a conservation based rainforest tourism strategy.

16, 17

Where the Work is happening



- | | |
|--|--|
| 1. Mt Nothofagus Flora Reserve | 21. Kookaburra (Carrai State Forest) |
| 2. Border Ranges National Park | 22. Wilson River Flora Reserve |
| 3. Limpinwood Nature Reserve | 23. Werrikimbe National Park |
| 4. Numinbah Nature Reserve | 24. Mt Seaview Nature Reserve |
| 5. Mt Warning National Park | 25. Banda Banda Flora Reserve |
| 6. Brunswick Heads Nature Reserve | 26. Arakoon State Recreation Area |
| 7. Nightcap National Park | 27. Limeburners Creek Nature Reserve |
| 8. Broken Head Nature Reserve | 28. Sea Acres Nature Reserve |
| 9. Big Scrub Fragments (Nature Reserves) | 29. Comboyne Fragments (Nature Reserves) |
| 10. Tooloom Scrub Flora Reserve | 30. Barrington Tops National Park |
| 11. Murray Scrub Flora Reserve | 31. Coocumbac Island Nature Reserve |
| 12. Murrumbidgee Flora Reserve | 32. Myall Lakes National Park |
| 13. Washpool National Park | 33. Bulahdelah Fragments (State Forests) |
| 14. Iluka Nature Reserve | 34. Gap Creek Flora Reserve |
| 15. Mt Hyland Nature Reserve | 35. Wollemi - Blue Mountains National Park |
| 16. New England National Park | 36. Strickland State Forest |
| 17. Dorrigo National Park | 37. Royal National Park |
| 18. Woolgoolga Flora Reserve | 38. Budderoo National Park |
| 19. Bruxner Park Flora Reserve | 39. Murrumbidgee National Park |
| 20. Bundagen Flora Reserve | ■ Rainforest patches in N.S.W. |

 World Heritage Park

NATIONAL RAINFOREST CONSERVATION PROGRAM

PROJECT TITLE: The use of remnant rainforest patches by flying foxes.

COMMONWEALTH I.D.: N76

STATE PROJECT CODE: 0914

PROJECT CATEGORY: Research.

LOCATION: North-east New South Wales.

DISTRICT: Head Office, E.S. & R. Branch

LAND TENURE: National Park, Nature Reserve, Vacant Crown Land, State Forests and council reserves.

PROJECT OBJECTIVES:

To determine the level of damage to remnant lowland rainforest patches, whether damage is affecting their long term viability, and assessment of the feasibility of deterrents.

COMMUNITY BENEFIT:

Continued appreciation of rainforest patches. Further knowledge of flying fox ecology has corollary benefits in management of these sometime pests such as in the Lismore District where flying foxes live in these remnants and where fruit growers report major fruit loss to flying foxes.

PROJECT DESCRIPTION:

During the summer of 1986/87, a valuable remnant rainforest at Maclean was used as a roost by many thousands of Little Red and Grey Headed Flying Foxes. The damage to the canopy appeared to be severe and residents expressed great concern regarding the future of this rainforest. The Service intends to assess the damage to this area, monitor regeneration, examine other similar areas in the region and formulate management strategies regarding flying foxes. There are approximately 50 main rainforest remnants and 100s of 1000s - if not millions - of bats. The relationship between bats and rainforest remnants needs to be established as an essential precursor to management of both.

STATUS OF PROJECT: Ongoing

PROGRESS OF PROJECT:

Anticipated starting date: late 1987

Actual starting date: late 1987

Expected completion date: June 1989

Actual completion date:

ACHIEVEMENT OF OBJECTIVES: Objectives were achieved.

OUTLINE ANY CHANGES IN PROJECT CONTENT:

No changes were made from the original project content although additional funding was sought to continue the project.

REASONS FOR THESE CHANGES: Not Applicable.

AUTHORITY FOR CHANGES: Not Applicable.

OTHER COMMENTS:

A copy of a preliminary report on this project is attached.

**NATIONAL RAINFOREST CONSERVATION PROGRAM
FINANCIAL REPORT**

Project: N76 0914 USE OF REM. RAINFOREST BY BATS

AGREED ALLOCATION:

YEAR	C'WEALTH	STATE	TOTAL
1986/87			0
1987/88	25,000	25,000	50,000
1988/89	25,000	25,000	50,000
1989/90	40,000		40,000
1990/91	40,000		40,000
Total	130,000	50,000	180,000

FUND TRANSFERS:

No fund transfers to or from this project.

ACTUAL LEDGER BALANCE:

YEAR	CONTRIBUTION ADDED	ACTUAL EXPENDITURE	BALANCE
1986/87			0.00
1987/88	25,000	48,744.88	(23,744.88)
1988/89	75,000	45,794.25	5,460.87
1989/90	0	18,981.65	(13,520.78)
1990/91	40,000	17,726.44	8,752.78
1991/92			8,752.78
Total	140,000	131,247.22	8,752.78

COMMENTS ON BALANCE:

Contribution of \$40,000 from the 1990/91 program has never been added to this project. There is still work that can be done to enhance the knowledge gained from this project.

"IN KIND" FUNDING:

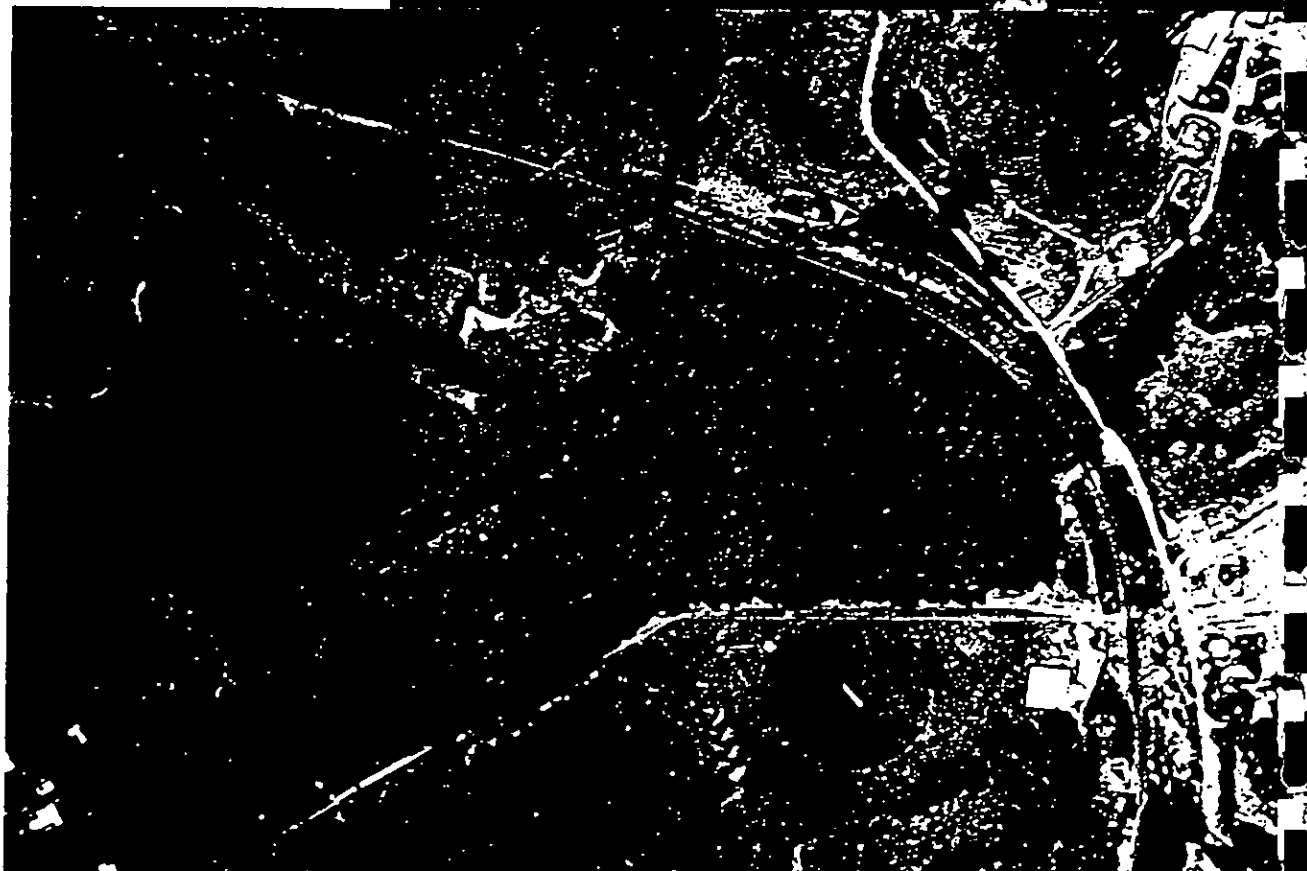
Project supervision and administration provided by NPWS.

OTHER FUNDING SOURCES:

PRELIMINARY REPORT
NRCP PROGRAM N76
FLYING-FOXES IN
RAINFOREST REMNANTS

July 1989

Peggy Eby
N.S.W. N.P.W.S.
P.O. Box 1967
Hurstville NSW 2220



OXLEY WILD RIVERS RESEARCH CONSULTANCY

REPORT II
APSLEY-MACLEAY GORGES FIRE
HISTORY SURVEY

R.J. Bennett and D.S. Cassells
August, 1988

Department of Ecosystem Management
University of New England

LIBRARY

OXLEY WILD RIVERS RESEARCH CONSULTANCY

Report III

CHARACTERISTICS AND FIRE
VULNERABILITY ASSESSMENT OF
THE DRY RAINFOREST IN THE
APSLEY - MACLEAY GORGES

R.J. Bennett and D.S. Cassells.
January, 1989

Department of Ecosystem Management
University of New England

NATIONAL RAINFOREST CONSERVATION PROGRAM

PROJECT TITLE: Macquarie Pass National park - Walking Track and Interpretive Facilities.

COMMONWEALTH I.D.: N77

STATE PROJECT CODE: 0959

PROJECT CATEGORY: Planning and Management.

LOCATION: Macquarie Pass National Park.

DISTRICT: Nowra

LAND TENURE: National Park.

PROJECT OBJECTIVES: To provide public access, facilities and interpretive facilities to and within stands of subtropical, warm temperate and cool temperate rainforest in the form of a combined restoration/development programme.

COMMUNITY BENEFIT: This project would help restore and make accessible the rainforest resources of the park and would help take some pressure off the nearby rainforest area of Minnamurra Falls.

PROJECT DESCRIPTION: - Reinstate two old walking tracks to facilitate public access to the subtropical, warm temperate and cool temperate rainforest areas.
- Restore and protect the rainforest margins by weed removal, planting of locally grown rainforest species and temporary fencing to protect regeneration works.
- Improve bus and car parking facilities adjacent to the rainforest.
- Provide a low key interpretation shelter and other interpretive facilities including a brochure and educational material.

STATUS OF PROJECT: Complete

PROGRESS OF PROJECT:

Anticipated starting date: April 1989

Actual starting date: April 1989

Expected completion date: June 1990

Actual completion date: June 1990

ACHIEVEMENT OF OBJECTIVES: Objectives were achieved.

OUTLINE ANY CHANGES IN PROJECT CONTENT: Not Applicable.

AUTHORITY FOR CHANGES: Not Applicable.

OTHER COMMENTS:

Project is complete and objectives were achieved.

**NATIONAL RAINFOREST CONSERVATION PROGRAM
FINANCIAL REPORT**

Project: N77 0959 MACQ. PASS N.P. - WALK TRACK INTERP FAC

AGREED ALLOCATION:

YEAR	C'WEALTH.	STATE	TOTAL
1986/87			0
1987/88			0
1988/89	30,000	30,000	60,000
1989/90			0
1990/91			0
Total	30,000	30,000	60,000

FUND TRANSFERS:

No fund transfers to or from this project.

ACTUAL LEDGER BALANCE:

YEAR	CONTRIBUTION ADDED	ACTUAL EXPENDITURE	BALANCE
1986/87			0.00
1987/88			0.00
1988/89	30,000	30,762.23	(762.23)
1989/90	30,000	29,284.56	(46.79)
1990/91			(46.79)
1991/92			(46.79)
Total	60,000	60,046.79	(46.79)

COMMENTS ON BALANCE:

Amount overexpended to be covered by underexpenditures in other projects.

"IN KIND" FUNDING:

Project supervision and administration provided by NPWS.

OTHER FUNDING SOURCES:

NATIONAL RAINFOREST CONSERVATION PROGRAM

PROJECT TITLE: Update NRCP Information Pamphlet.

COMMONWEALTH I.D.: N78

STATE PROJECT CODE: 0957

PROJECT CATEGORY: Interpretive and Visitor facilities.

LOCATION: Not Applicable.

DISTRICT: Northern Region

LAND TENURE: Not Applicable.

PROJECT OBJECTIVES:
Update original information pamphlet on the NRCP

COMMUNITY BENEFIT:
Greater public awareness of the program and of rainforest generally.

PROJECT DESCRIPTION:
Design and print new pamphlet providing updated information on the NRCP.

STATUS OF PROJECT: Complete

PROGRESS OF PROJECT:
Anticipated starting date: mid 1989
Actual starting date: late 1989

Expected completion date: December 1989
Actual completion date: December 1989

ACHIEVEMENT OF OBJECTIVES: Objectives were achieved.

OUTLINE ANY CHANGES IN PROJECT CONTENT:

No changes to original project content.

AUTHORITY FOR CHANGES: Not Applicable.

OTHER COMMENTS:

This pamphlet has been completed and is providing a ready reference to the good progress and the high achievement levels with the program. A copy of the pamphlet is attached.

**NATIONAL RAINFOREST CONSERVATION PROGRAM
FINANCIAL REPORT**

Project: N78 0957 UPDATE NRCP INFO PAMPHLET

AGREED ALLOCATION:

YEAR	C'WEALTH	STATE	TOTAL
1986/87			0
1987/88	1,000	1,000	2,000
1988/89			0
1989/90			0
1990/91			0
Total	1,000	1,000	2,000

FUND TRANSFERS:

No fund transfers to or from this project.

ACTUAL LEDGER BALANCE:

YEAR	CONTRIBUTION ADDED	ACTUAL EXPENDITURE	BALANCE
1986/87			0.00
1987/88	1,000	0.00	1,000.00
1988/89	1,000	2,690.00	(690.00)
1989/90			(690.00)
1990/91			(690.00)
1991/92			(690.00)
Total	2,000	2,690.00	(690.00)

COMMENTS ON BALANCE:

Amount overexpended to be covered by underexpenditures in other projects.

"IN KIND" FUNDING:

Project supervision and administration provided by NPWS.
Use of Service photographs.

OTHER FUNDING SOURCES:

NATIONAL RAINFOREST CONSERVATION PROGRAM

PROJECT TITLE: Boatharbour Nature Reserve
Visitor Facilities.

COMMONWEALTH I.D.: N79

STATE PROJECT CODE: 0961

PROJECT CATEGORY: Interpretive and Visitor Facilities

LOCATION: Boatharbour Nature Reserve - Lismore

DISTRICT: Lismore

LAND TENURE: Nature Reserve.

PROJECT OBJECTIVES:

1. To provide upgraded visitor facilities in newly dedicated Nature Reserve.
2. To provide high quality rainforest interpretive display.
3. To provide a short rainforest walk.

COMMUNITY BENEFIT:

1. Improved tourist facilities.
2. Improved community understanding of "Big Scrub" rainforests.

PROJECT DESCRIPTION: Boatharbour is a newly dedicated Nature Reserve. One of the Big Scrub remnants. Previous management was by Lismore City Council and the local Lions Club. The Service intends to provide new and more appropriate facilities which include, high quality interpretive display, disabled toilets, barrier free access, improved walking track, car park and rainforest rehabilitation.

STATUS OF PROJECT: Complete

PROGRESS OF PROJECT:

Anticipated starting date: late 1988

Actual starting date: mid 1989

Expected completion date: June 1989

Actual completion date: June 1991

ACHIEVEMENT OF OBJECTIVES: Objectives were achieved.

OUTLINE ANY CHANGES IN PROJECT CONTENT:

No changes to original project content.

AUTHORITY FOR CHANGES: Not Applicable.

OTHER COMMENTS:

Work on Boatharbour Nature Reserve visitor facilities has been completed. Work includes provision of a new access road and car park for 30 cars, the construction of a septic toilet block and the erection of an interpretive display structure. In addition a walking track on the banks of the Wilson River, an interpretive display and further rainforest rehabilitation work has been completed. As a result of the NRCP, a sponsor has provided a further \$80,000 for rainforest regeneration. This work is well under way, with exotics such as Balloon Vine and Madeira Vine being treated, and cleared areas being planted with rainforest species.

**NATIONAL RAINFOREST CONSERVATION PROGRAM
FINANCIAL REPORT**

Project: N79 0961 BOATHARBOUR N.R. - FACILITIES REHAB

AGREED ALLOCATION:

YEAR	C'WEALTH	STATE	TOTAL
1986/87			0
1987/88			0
1988/89	30,000	30,000	60,000
1989/90			0
1990/91			0
Total	30,000	30,000	60,000

FUND TRANSFERS:

No fund transfers to or from this project.

ACTUAL LEDGER BALANCE:

YEAR	CONTRIBUTION ADDED	ACTUAL EXPENDITURE	BALANCE
1986/87			0.00
1987/88			0.00
1988/89	5,000	3,163.15	1,836.85
1989/90	55,000	39,110.54	17,726.31
1990/91	0	18,630.63	(904.32)
1991/92			(904.32)
Total	60,000	60,904.32	(904.32)

COMMENTS ON BALANCE:

Amount overexpended to be covered by underexpenditures in other projects.

"IN KIND" FUNDING:

Project supervision and administration provided by NPWS.
NPWS also provided motor vehicles, tools, and plant and equipment.

OTHER FUNDING SOURCES:

Rainforest regeneration work at Boatharbour N.R. has been funded to a value of \$80,000 by Samuel Taylor Pty Ltd.

NATIONAL RAINFOREST CONSERVATION PROGRAM

PROJECT TITLE: Mount Warning - Educational Tour Facilities.

COMMONWEALTH I.D.: N80

STATE PROJECT CODE: 0962

PROJECT CATEGORY: Interpretive and Visitor Facilities

LOCATION: Mount Warning National Park - Murwillumbah.

DISTRICT: Lismore

LAND TENURE: National Park.

PROJECT OBJECTIVES: To increase availability at Mount Warning National Park to educational groups by providing public access, facilities and interpretation.

COMMUNITY BENEFIT: Improved educational and interpretive facilities and increased access for educational tours.

PROJECT DESCRIPTION:

1. Provide high quality educational and interpretive facility.
2. Restore, and protect rainforest margins from weed infestation, especially lantana.
3. Establish an important endangered plant arboretum in conjunction with rare plant program
4. Improve bus and car parking facilities adjacent to the rainforest.
5. Construct new picnic facilities on heavily disturbed land adjacent to rainforest. Mount Warning is in demand for educational tours. An access survey of NSW National Park identified Mount Warning as one of the few rainforest areas with safe road access.

STATUS OF PROJECT: Complete

PROGRESS OF PROJECT:

Anticipated starting date: late 1988

Actual starting date: late 1988

Expected completion date: June 1989

Actual completion date: December 1989

ACHIEVEMENT OF OBJECTIVES: Objectives were achieved.

OUTLINE ANY CHANGES IN PROJECT CONTENT:

The original concept was expanded with more detailed planning. Extreme weather conditions contributed to an escalation of costs.

AUTHORITY FOR CHANGES:

Verbal agreement with Commonwealth liaison officers.

OTHER COMMENTS:

This project complements N35. Work on the project included the provision of a new picnic area on the banks of Breakfast Creek. The facilities here included a dry composting toilet, a small walking track, barbeques and picnic tables. This new picnic area has eased the congestion on the Mount Warning road, especially at the terminus. Work on the road terminus includes widening of the roadway to provide increased car parking. The project also included the establishment of an arboretum housing specimens of rare or threatened rainforest plants. This involved the collection and propagation of plant material, clearing of the arboretum site, and planting of the rare or threatened species along with a protective cover crop. Significant achievement has been made with the conservation of many rainforest species previously at risk.

**NATIONAL RAINFOREST CONSERVATION PROGRAM
FINANCIAL REPORT**

Project: N80 0962 MT WARNING - ED. TOUR FACILITATION

AGREED ALLOCATION:

YEAR	C'WEALTH	STATE	TOTAL
1986/87			0
1987/88			0
1988/89	15,000	15,000	30,000
1989/90			0
1990/91			0
Total	15,000	15,000	30,000

FUND TRANSFERS:

No fund transfers to or from this project.
As costs escalated it was envisaged that a project variation from N83 would be sought although this variation was never officially requested.

ACTUAL LEDGER BALANCE:

YEAR	CONTRIBUTION ADDED	ACTUAL EXPENDITURE	BALANCE
1986/87			0.00
1987/88			0.00
1988/89	30,000	65,541.70	(35,541.70)
1989/90	0	858.55	(36,400.25)
1990/91			(36,400.25)
1991/92			(36,400.25)
Total	30,000	66,400.25	(36,400.25)

COMMENTS ON BALANCE:

Amount overexpended to be covered by underexpenditures in other projects particularly N83.

"IN KIND" FUNDING:

Project supervision and administration provided by NPWS.
NPWS also provided motor vehicles, tools, and plant and equipment.

OTHER FUNDING SOURCES:

NATIONAL RAINFOREST CONSERVATION PROGRAM

PROJECT TITLE: Susan Island Nature Reserve -
Lowland Rainforest Rehabilitation.

COMMONWEALTH I.D.: N81

STATE PROJECT CODE: 0963

PROJECT CATEGORY: Planning and Management.

LOCATION: Susan Island Nature Reserve.

DISTRICT: Grafton.

LAND TENURE: Nature Reserve.

PROJECT OBJECTIVES: Rehabilitation of most important
remnant of the Clarence Valley's
lowland floodplain subtropical
rainforest from infestation by
various exotic plants (Mадiera
vine, cocos palm, prickly pear,
lantana etc).

COMMUNITY BENEFIT: Restoration and rehabilitation of
this remnant rainforest, which
needs to be in good condition to
cope with the pressure of its host
colony of fruit bats (Mадiera vine,
cocos palm, prickly pear, lantana
etc.).

PROJECT DESCRIPTION: Implementation of a bush
regeneration program based on that
successfully used in the Wingham
Brush.

STATUS OF PROJECT: Complete

PROGRESS OF PROJECT:
Anticipated starting date: early 1989
Actual starting date: mid 1989

Expected completion date: June 1989
Actual completion date: late 1989

ACHIEVEMENT OF OBJECTIVES: Objectives were achieved.

**NATIONAL RAINFOREST CONSERVATION PROGRAM
FINANCIAL REPORT**

Project: N81 0963 SUSAN ISLAND REHABILITATION

AGREED ALLOCATION:

YEAR	C'WEALTH	STATE	TOTAL
1986/87			0
1987/88			0
1988/89	10,000	10,000	20,000
1989/90			0
1990/91			0
Total	10,000	10,000	20,000

FUND TRANSFERS:

No fund transfers to or from this project.

ACTUAL LEDGER BALANCE:

YEAR	CONTRIBUTION ADDED	ACTUAL EXPENDITURE	BALANCE
1986/87			0.00
1987/88			0.00
1988/89	10,000	8,830.92	1,169.08
1989/90	10,000	10,221.56	947.52
1990/91			947.52
1991/92			947.52
Total	20,000	19,052.48	947.52

COMMENTS ON BALANCE:

No outstanding commitments. Balance available to cover any overexpenditure on other projects.

"IN KIND" FUNDING:

Project supervision and administration provided by NPWS.
NPWS also provided tools and equipment and use of services boat.

OTHER FUNDING SOURCES:

NATIONAL RAINFOREST CONSERVATION PROGRAM

PROJECT TITLE: A survey of the rainforests of the Illawarra Escarpment.

COMMONWEALTH I.D.: N82

STATE PROJECT CODE: 0965

PROJECT CATEGORY: Survey/Inventory.

LOCATION: Illawarra Escarpment from Royal National Park to Foxground.

DISTRICT: Nowra

LAND TENURE: Freehold, Crown and National Parks and Wildlife Service.

PROJECT OBJECTIVES: To describe in detail and map the rainforests of the Illawarra Escarpment and identify their conservation significance within the spectrum of the rainforests of NSW.

COMMUNITY BENEFIT: To identify important rainforest areas of the Illawarra Escarpment in order that they can be assessed for possible reservation under the National Parks and Wildlife Act 1974

PROJECT DESCRIPTION: 1. To describe in detail the vegetation communities of the Illawarra Escarpment with particular emphasis on the rainforest communities.

2. To describe in detail the rainforest flora of the Illawarra Escarpment.

3. To identify area, sites, locations and features of rainforest flora of greatest significance.

4. To provide a detailed map of the rainforests of the Illawarra Escarpment.

**NATIONAL RAINFOREST CONSERVATION PROGRAM
FINANCIAL REPORT**

Project: N82 0965 ILLAWARRA ESCARP. R\F SURVEY

AGREED ALLOCATION:

YEAR	C'WEALTH	STATE	TOTAL
1986/87			0
1987/88			0
1988/89	8,000	8,000	16,000
1989/90			0
1990/91			0
Total	8,000	8,000	16,000

FUND TRANSFERS:

No fund transfers to or from this project.

ACTUAL LEDGER BALANCE:

YEAR	CONTRIBUTION ADDED	ACTUAL EXPENDITURE	BALANCE
1986/87			0.00
1987/88			0.00
1988/89	8,000	7,898.80	101.20
1989/90	8,000	7,944.00	157.20
1990/91			157.20
1991/92			157.20
Total	16,000	15,842.80	157.20

COMMENTS ON BALANCE:

This project consisted of a contract worth \$16,000 paid in four installments. Even with this low level of activity it appears as though incorrect transactions have impacted on this account.

"IN KIND" FUNDING:

Project supervision and administration provided by NPWS.

OTHER FUNDING SOURCES:

**NATIONAL RAINFOREST CONSERVATION PROGRAM
FINANCIAL REPORT**

Project: N83 0960 NIGHTCAP N.P. - MT MATHESON TRACK

AGREED ALLOCATION:

YEAR	C'WEALTH	STATE	TOTAL
1986/87			0
1987/88			0
1988/89	20,000	20,000	40,000
1989/90			0
1990/91			0
Total	20,000	20,000	40,000

FUND TRANSFERS:

No fund transfers to or from this project, although it was envisaged that a project variation would be sought to transfer funds from this project to N80 although no formal request was made.

ACTUAL LEDGER BALANCE:

YEAR	CONTRIBUTION ADDED	ACTUAL EXPENDITURE	BALANCE
1986/87			0.00
1987/88			0.00
1988/89	20,000	18,238.60	1,761.40
1989/90	20,000	0.00	21,761.40
1990/91			21,761.40
1991/92			21,761.40
Total	40,000	18,238.60	21,761.40

COMMENTS ON BALANCE:

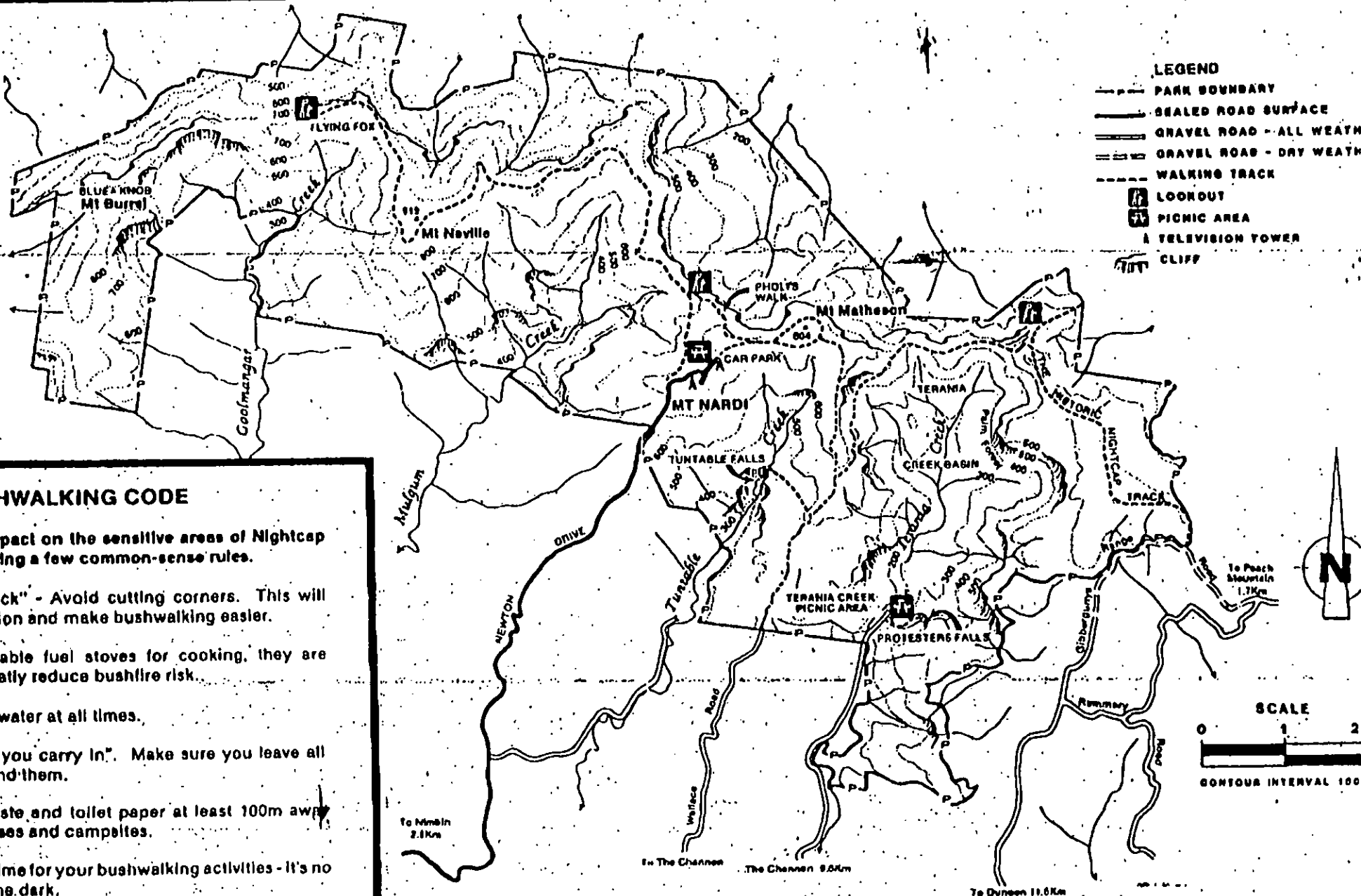
Balance used to help offset overexpenditure in project N80 Mt Warning.

"IN KIND" FUNDING:

Project supervision and administration provided by NPWS.
NPWS also provided motor vehicles, tools, and plant and equipment.
District staff were involved in track upgrading.

OTHER FUNDING SOURCES:

NIGHTCAP NATIONAL PARK



NATIONAL RAINFOREST CONSERVATION PROGRAM

PROJECT TITLE: Mount Matheson Walking Track.

COMMONWEALTH I.D.: N83

STATE PROJECT CODE: 0960

PROJECT CATEGORY: Planning and Management.

LOCATION: Nightcap National Park.

DISTRICT: Lismore.

LAND TENURE: National Park.

PROJECT OBJECTIVES: Construction and rehabilitation of Mount Matheson to Gibbergenyah Road Walking Track.

COMMUNITY BENEFIT: New and further opportunities for visitor use of the park.

PROJECT DESCRIPTION: Construction of high quality walking track from Mount Matheson to Historic Nightcap Track. Including rehabilitation of a number of landslips.

STATUS OF PROJECT: Complete

PROGRESS OF PROJECT:
Anticipated starting date: late 1988
Actual starting date: early 1989

Expected completion date: June 1989
Actual completion date: February 1990

ACHIEVEMENT OF OBJECTIVES: Objectives were achieved.

OUTLINE ANY CHANGES IN PROJECT CONTENT:
This project was achieved with considerably less relocation of the existing track than originally anticipated.
Costs were contained so that funds would be available to offset cost overruns at Mt Warning.
Nonetheless significant improvements were made to the track.

AUTHORITY FOR CHANGES:

Verbal agreement with Commonwealth liaison officers.

OTHER COMMENTS:

The work carried out on the Mount Matheson Track included drainage, relocation of the track in some areas, removal of fallen trees and repair of erosion gullies. This 15 kilometre walk is proving to be very successful and transverse some spectacular scenery in Nightcap National Park. A copy of a map sign of this walking track is attached.

NATIONAL RAINFOREST CONSERVATION PROGRAM

PROJECT TITLE: Rainforest Poster.

COMMONWEALTH I.D.: 8+

STATE PROJECT CODE: 0966

PROJECT CATEGORY: Interpretive and Visitor facilities.

LOCATION: Not Applicable.

DISTRICT: Northern Region

LAND TENURE: Not Applicable.

PROJECT OBJECTIVES:
Produce a poster advertising the NRCP

COMMUNITY BENEFIT:
Greater public awareness of NRCP and rainforests generally.

PROJECT DESCRIPTION:
Produce a poster advertising the NRCP

STATUS OF PROJECT: Complete

PROGRESS OF PROJECT:
Anticipated starting date: early 1990
Actual starting date: mid 1990

Expected completion date: June 1990
Actual completion date: July 1990

ACHIEVEMENT OF OBJECTIVES: Objectives were achieved.

OUTLINE ANY CHANGES IN PROJECT CONTENT
No changes to original project content.

AUTHORITY FOR CHANGES: Not Applicable.

OTHER COMMENTS:
Poster on sale at NPWS sales outlets for \$4.00 each.

**NATIONAL RAINFOREST CONSERVATION PROGRAM
FINANCIAL REPORT**

Project: 0966 RAINFOREST POSTER

AGREED ALLOCATION:

YEAR	C'WEALTH	STATE	TOTAL
1986/87			0
1987/88			0
1988/89			0
1989/90	3,000		3,000
1990/91	0	0	0
Total	3,000	0	3,000

FUND TRANSFERS:

No fund transfers to or from this project.

ACTUAL LEDGER BALANCE:

YEAR	CONTRIBUTION ADDED	ACTUAL EXPENDITURE	BALANCE
1986/87			0.00
1987/88			0.00
1988/89			0.00
1989/90			0.00
1990/91	0	2,782.00	(2,782.00)
1991/92			0.00
Total	0	2,782.00	(2,782.00)

COMMENTS ON BALANCE:

The \$3,000 contribution from the 1989/90 program has never been credited to this account.

No outstanding commitments. Balance available to cover any overexpenditure on other projects.

"IN KIND" FUNDING:

Project supervision and administration provided by NPWS.

Design and layout of poster done by Northern Region staff.

Photograph used on poster taken by Geoff Biddle of Northern Region.

OTHER FUNDING SOURCES:



Department of

THE ARTS, SPORT, THE ENVIRONMENT, TOURISM and TERRITORIES

Mr Geoff Martin
Northern Region Manager
National Parks and Wildlife Service
PO Box 97
GRAFTON NSW 2460



Dear Geoff

I was very impressed with the quality of the new Brochure. It covers all the necessary details, yet presents the information in a very lively and eye-catching way. Congratulations.

Following on from this, I would like your reaction to the suggestion by Stephanie Horton that that the cover photograph (and perhaps some of the smaller shots) be incorporated into a rainforest poster as an adjunct to the brochure. Personally I think this would be a good idea. It accords with our thoughts on a poster series on the Program for all States, which would largely be funded by the Commonwealth, the States contributing only in kind (in terms of design, provision of photographs, etc)

The advantage of posters is that they are a more visible means of advertisement and also tend to have a long life.

If you are agreeable, I can make the necessary arrangements to have the project approved as a "special", not requiring any variation to an existing State program, unless you think that the in-kind component of the State needs to be formally recognised. Your thoughts on the matter would be appreciated. I am enclosing a recently produced Wet Tropics poster that we think turned out very well, to show you what is possible with state-of-the-art design and printing.

Regards

Geoff Dyne
4 May 1989

c.c.: Stephanie Horton
Lismore District Office

→ JOHN HUNTER

9/5
→ RM [initials]

NATIONAL RAINFOREST CONSERVATION PROGRAM

PROJECT TITLE: World Heritage Renomination.

COMMONWEALTH I.D.:

STATE PROJECT CODE: 0940

PROJECT CATEGORY: Planning and Management.

LOCATION: Eastern New South Wales areas
supporting rainforest and associated
vegetation.

DISTRICT: Head Office

LAND TENURE: All tenures.

PROJECT OBJECTIVES: Assessment of adequacy of existing
boundaries to World Heritage area
and assessment of other areas with
regard to criteria for nomination to
World Heritage List.

COMMUNITY BENEFIT: Increased protection and
appreciation of the rainforest
resource.

PROJECT DESCRIPTION: The project will comprise:

1. Assess adequacy of existing boundaries with
respect to landforms, vegetation boundaries,
and external threatening processes.
2. Identification of other areas which may
satisfy criteria for World Heritage listing.
3. Compilation of data on existing and potential
areas.
4. Writing of renomination.

STATUS OF PROJECT: Ongoing

PROGRESS OF PROJECT:

Anticipated starting date: late 1991

Actual starting date: late 1991

Expected completion date: October 1992

Actual completion date:

OTHER COMMENTS:

Rainforest areas in Queensland will also be
assessed for nomination.

**NATIONAL RAINFOREST CONSERVATION PROGRAM
FINANCIAL REPORT**

Project: 0940 WORLD HERITAGE RENOMINATION

AGREED ALLOCATION:

YEAR	C'WEALTH	STATE	TOTAL
1986/87			0
1987/88			0
1988/89			0
1989/90			0
1990/91	15,000		15,000
Total	15,000	0	15,000

FUND TRANSFERS:

No fund transfers to or from this project.

ACTUAL LEDGER BALANCE:

YEAR	CONTRIBUTION ADDED	ACTUAL EXPENDITURE	BALANCE
1986/87			0.00
1987/88			0.00
1988/89			0.00
1989/90			0.00
1990/91	0	0.00	0.00
1991/92	25,000	8,438.71	16,561.29
Total	25,000	8,438.71	16,561.29

COMMENTS ON BALANCE:

Project has only just commenced. This balance includes project code 0940 and 0942.

"IN KIND" FUNDING:

Project supervision and administration provided by NPWS.

OTHER FUNDING SOURCES:

A contribution from Queensland National Parks of \$10,000 has been received. I understand that this amount is to be returned.

National Parks and Wildlife Service



LISMORE DISTRICT

State 9
Colonial Arcade,
Main Street
P.O. Box 91
Armidale, N.S.W. 2357

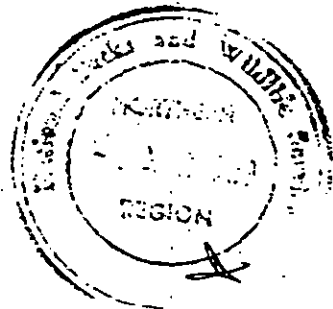
9-47

Our reference

Your reference

Telephone 281177
STD 066

Dr. G. Dyne
Coordinator
National Rainforest Conservation
Program
Natural Heritage Branch
Dept the Arts, Sport, the Environment,
Tourism and Territories,
G.P.O. Box 787,
Canberra ACT 2601



Dear Geoff

National Rainforest Conservation Program Brochure Littoral Rainforest Management Guidelines

Please find enclosed copies of the National Rainforest Conservation Program brochure. Travelling under separate cover are 850 copies of same. Please let me know if you require more.

Total cost for this project is \$2,690.00. As discussed with you this is \$690.00 above original allocation. I understand from our discussions during 1988, that extra costs for the project would be divided evenly between the State and the Commonwealth. Perhaps you could raise the further Commonwealth funding with our Regional Manager, Mr G. Martin.

As discussed by telephone on March 30, I believe the front cover of the brochure would make a successful poster. It would seem to be a fitting way of continuing the message of the National Rainforest Conservation Program into the future. I've included a 'doctored' brochure detailing my ideas for this. Preliminary cost estimates for the poster are \$2.00 each for the first thousand and \$1.00 each per extra thousand. It is estimated the posters could retail for \$5.00 each. Proceeds from sales could be split between Commonwealth and State or, perhaps, channelled to maintain rainforest rehabilitation projects undertaken under the National Rainforest Conservation Program.

Also enclosed is the final draft of the Littoral Rainforest Management Guidelines. It is envisaged this booklet will contain up to 50 full colour photographs. As this project is now running on a tight production schedule to enable its

C. Regional Manager
Grafton

Noted by SARM 6.4 1/2 7/4
Poster concepts discussed with Stephanie
3.4.89

publication this financial year, I would appreciate your
comments on it (and the poster) as early as possible.

Stephanie Horton

Stephanie Horton
for Director.

March 31, 1989.

Encl.