Department of Conservation and Land Management, W.A.

End of Grant Report

On National Afforestation Program

Projects 15, 60 & 161

To

DEPARTMENT OF PRIMARY INDUSTRIES AND ENERGY, CANBERRA

JANUARY 1992

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END OF GRANT REPORT ON NATIONAL AFFORESTATION PROGRAM PROJECTS 15 60 & 161 TO THE DEPARTMENT OF PRIMARY INDUSTRY AND ENERGY

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1. INTRODUCTION

In the mid 1980s CALM commenced developing the 'Softwood Sharefarming' concept. The aim was to make pine plantation forestry attractive to farmers and thereby gain access to the large agricultural land base without the cost and conflict of land purchase. The concept created considerable interest amongst farmers and the potential to extend it to other species with larger volume markets (e.g. eucalypts, especially short rotation *Eucalyptus globulus* for pulpwood), and to apply it to extensive treatment of land and water degradation problems, was quickly recognized (Shea and Bartle 1988; Bartle and Shea 1989).

Despite the initial high interest, the early versions of Softwood Sharefarming, and its adaptation to short rotation eucalypts, 'Hardwood Sharefarming', attracted mainly only retiring and corporate farmers. It was apparent that the plantation form of forestry used in these early versions of sharefarming was a significant disincentive to mainstream farmers. However, it was also clear that mainstream farmers could be attracted if tree planting options which would complement their conventional farming activities could be developed. This gave rise to the concept of 'integrated' agriculture/commercial tree cropping systems (Bartle 1989).

The commencement of the National Afforestation Program sponsored by the Commonwealth Department of Primary Industry and Energy provided the opportunity to seek funds to develop the concept of integration. CALM was senior or sole applicant for grants for 3 projects extending over the years 88/89 and 89/90. These projects had interrelated objectives and were closely co-ordinated in their execution.

This report is a full terminating statement to the Department of Primary Industry and Energy prepared according to their 'end of grant' guidelines. It deals with the 3 projects jointly except for individual project financial statements.

2. THE PROJECTS

2.1 NAP project 15: integration of short-rotation eucalypts into agricultural systems in the southwest of W.A.

This was a joint project involving CALM, WA Department of Agriculture and the Water Authority of WA. It extended over two financial years encompassing the winter planting seasons of 1989 and 90. Total funds allocated were $1 118 400 and six staff were employed. The aims were:

- to establish demonstration farms/catchments designed to quantify integrated agricultural tree crop production and environmental benefits.
- to undertake detailed farm planning, management and economic analyses to assess the viability of integrated agriculture/tree cropping.
- to undertake field experiments to develop and demonstrate establishment technique and alternative species.
- to establish a total of 900 ha of plantings, most of it under fully commercial arrangements, and extending across the full geographic and site type range for pulpwood species.

2.2 NAP Project 60: afforestation of farmland in the southwest using karri.

This project was allocated $216 000 to re-establish some 2000 ha karri on farmland in the karri forest zone of lower southwest of W.A. During the first year of the project (winter 1989) it became clear that the objective of 2000 ha would be unattainable. This was due to lack of demand in the small farms/limited area karri zone. Only 56 ha were planted. Approval was granted to extend the geographic and species range of the project for 1990 and it was effectively incorporated into Project 15. The area target for 1990 was reduced to 545 ha.

2.3 NAP Project 161: to develop and demonstrate the commercial potential of eucalypts on salt affected soils.

This project was also conducted jointly with the WA Department of Agriculture and the Water Authority of WA. It extended over the winter 1990 planting season only and was allocated $115 000. The objectives were:

- to undertake some evaluation of the pulp yield of *E. camaldulensis* on salt affected soils.

• to plant 150 ha of *E. camaldulensis* on salt affected soils to complement adjacant up slope commercial pulpwood plantings for salinity treatment.

The latter objective required that this project be closely co-ordinated with project 15.

3. WORK SUMMARY

The aims of the three projects are interrelated and the projects were therefore conducted jointly. The aims were consolidated into three main work areas:

• achieving a planted area of 1650 ha while also developing and applying the concept of pulpwood crops as an integral part of farming practice.

• experimenting and demonstrating planting/management techniques and integration techniques for pulpwood crops.

• establishing two sets of demonstration catchments on which comprehensive evaluation of integrated systems could be undertaken.

3.1 Area planted

A total of 505 ha was planted in winter 1989 within which many options for integration were explored. A further 1145 ha were planted in winter 1990 mostly using 'Timberbelt Sharefarming', which was specifically developed from the 1989 experience. A full listing of all sites including brief site description is given in appendix 1.

Planting sites were gained mostly by direct interaction with farmer groups and by enquiry emanating from word-of-mouth communication between farmers. Contact with farmers was made by a locally resident Project 'advisor' who assumed complete responsibility for the whole working relationship with the farmer. The advisor planned a Timberbelt Sharefarming deal jointly with the farmer and then supervised its execution. All operations were conducted within the CALM administration system usually under contract to independent operators.

3.2 Technique development

As well as contribute to the area target each planting was planned to gain maximum value from experiment and demonstration. The general short term objective of the experimental work was to gain rapid improvement in establishment technique. The long term aim was to establish the base from which parameter inputs for growth modelling could be obtained. Models have been developed by CALM to enable prediction of growth pattern and pulpwood yield over time for the full array of climatic, edaphic and management options available. Amelioration of or adaptation to difficult sites (e.g. waterlogging, salinity, effluent disposal, hardpans) was also explored.

The particular factors subject to experiment include:

- nursery practice
- site preparation
- weed control
- nutrition
- planting density
- species selection

Five experiments were established in 1988, fifty nine in 1989 and forty in 1990. All experiments were designed for statistical analysis and conform to the standard CALM 'Research Project Plan'. Each has a central file into which a full record the experiment, on-going observations and results are entered. Many of the 1990 experiments were a logical progression from preliminary results obtained from the earlier experiments. A full list of experiments is given in appendix 2.

The experimental work, much of it involving detailed small plot designs, occupied some 200 ha of planting in total. Sites were selected to cover the full climatic and edaphic range, to provide good security over the plots and to gain maximum demonstration value. Standardized inputs such as seed source, nursery stock, planting and management technique were used to minimize these as a source of variation in the results.

For project 161 pulp yield analysis of *E. camaldulensis* was carried out by Australian Pulp and Paper Manufacturers.

3.3 Demonstration Catchments

The aim was to establish sites where quantitative evaluation of all the benefits of integration could be undertaken. Five suitable small catchments were selected. Two of the catchments are on typical deep grey sands under annual pasture in the Peel Estuary area where phosphorus leaching is a problem. Three are on typical lateritic soils under annual pasture in the upper Denmark area where waterlogging and salinity are problems. Table I gives catchment details. The NAP project team took the lead role in the Peel catchments and the Water Authority/Department of Agriculture led the work at Denmark.

TABLE I
DEMONSTRATION CATCHMENTS

Name	Area(ha)	Location	Problem	AMG Ref
Caratti	35	Peel/Harvey	Eutrophication	386500E 6360000N
Caratti	35	Peel/Harvey	Eutrophication	387500E 6360000N
Clodes/ Barrama	100	Upper Denmark	Salinity	533500E 6159500N
Drage/ Wilmay	110	Upper Denmark	Salinity	537500E 6166000N
Pardelup	120	Upper Denmark	Salinity	534500E 6166500N

Note: Aust Map Grid references to nearest 500m.

Each of the catchments was instrumented to monitor hydrological characteristics. Standard Water Authority stream gauging stations have been installed to measure stream flow volume and to provide a fixed point for collection of water samples for measurement of salt or phosphorus content. A pluviometer to record rainfall amount and intensity was also placed at each site. A grid of bores was established to monitor groundwater depth. The catchments have been incorporated into the Water Authority's stream gauging network and data collection system.

Surface topography, soils and the geophysical/seismic attributes of the catchments have been mapped. The latter attributes include profile conductivity, basement rock magnetics and occurrence of denser horizons within the profile, all factors which may control subsurface water movement. The agricultural productivity of the land will also be studied. These data will be used to specify an optimum distribution of tree crops, as part of an integrated 'farm plan', for each of the catchments to be subjected to treatment. Their long term performance will be contrasted with the untreated control catchments.

It is now considered necessary to have at least three full years of detailed monitoring to establish baseline performance prior to treatment. This means that tree planting will not take place until the winter of 1993. The 3 participating State Departments will continue the long term program for these catchments.

4. CONCLUSIONS AND APPLICATIONS

4.1 Area target and purpose

The projects slightly exceeded their allocated area targets by planting a total of 1690 ha. All planting was designed to achieve the multiple objectives inherent in the project objectives and in the National Afforestation Program as a whole. These include:

- wide dispersal of plantings for maximum demonstration value, but with a bias to the 600-900 mm rainfall zone where the greatest land base and landcare benefit are available. Some 80% of plantings were in this zone extending over 250km from Albany to Darkan.
- all conceivable aspects of integration with conventional agriculture were pursued and plots demonstrating these various aspects were systematically replicated across the geographic and site-type range.
- all demonstration plantings were conducted within a realistic economic framework from the perspective of both farmers and investors.
- a network of contact with farmer and community groups was established. A suite of demonstrations and commercial plantings was linked to each group to help sustain interest.

4.2 Timberbelt sharefarming

The projects created the product called 'Timberbelt Sharefarming'. The concept of Timberbelt Sharefarming developed through the first year of the projects (Mattinson et al 1989). The name was selected to convey the two main design features i.e. timberbelts being a flexible, often linear, tree planting distribution integrated with other farming activities; and sharefarming being a mechanism to facilitate investor participation in farm tree planting. Timberbelt Sharefarming was designed to be a fully commercial transaction attractive to both farmers and investors. Its other attributes, as finally developed for CALM plantings in 1991 (Bartle 1991), include:

- secured by a legal contract (CALM 1991). This was not developed in time to apply to NAP planting in 1990 but has been used by CALM in 1991 plantings.
- a flexible sharing of costs and responsibilities in establishment and management. Most commonly the investor meets the major establishment costs and the farmer carries the on-going management.
- a flexible distribution of trees in plantings of any size or shape laid out as an integral part of a whole farm plan. Plantings seek to optimize the total benefits of tree planting i.e. the commercial, landcare and conservation benefits of trees. A small proportion of non-commercial planting for land rehabilitation can be incorporated into the contract.
- all costs are given standard values to minimize negotiation in preparation of a timberbelt contract.
- land rent is included as an explicit farmer cost input.
- harvest revenue is shared in the same proportion as the total costs of each party, all costs being compounded forward to harvest at a real interest rate of 7%.
- the investor return is all taken from the first harvest. The coppice crop belongs to the farmer.

Even when including only the direct puplwood production benefits Timberbelt Sharefarming looks quite competitive in relation to other crop options (Mattinson et al 1989). Timberbelt Sharefarming, or some further development of it, is likely to be a major vehicle by which extensive tree cropping is undertaken in the lower south west of Western Australia.

4.3 Knowledge of Techniques and Yield

A substantial base of experimental plots was established from which rapid improvement in technique and long term evaluation of yield could be undertaken. Some early results were presented at a recent conference (Ellis 1990a). Long term results will become available during the next decade.

The intensive groundwork involved in selecting treatments for testing by experiment and early experimental results were important inputs to the preparation of new guidelines for all CALM eucalypt planting operations (CALM 1990a). The flow of results from this research over the next several years will be the major source of information by which planting guidelines will be refined.

A full review of the Project's technique development research is provided in the accompanying documentation (Ellis 1990b).

4.4 Quantification of the benefits of integration

The demonstration catchments are fully equipped for a scientifically sound evaluation of the performance of integrated systems. It was decided to add 2-3 years to the original schedule for pre-treatment monitoring. This will provide a much better quality result and greater return for the considerable investment that has now gone into these catchments. Detailed documentation of the Peel catchment attributes and monitoring program (Silberstein and Bennett, 1990) and a brief review of data for the Denmark catchments (Bari 1991) are provided in the accompanying papers.

4.5 Potential for *E. camaldulensis*

Three southern Australian provenances of *E. camaldulensis* were found to have relatively low pulp yields (i.e. 45% or 6-8% less than *E. globulus*). However, there appears to be considerable genetic variation within the species and, especially given its ease of propagation by tissue culture, rapid improvement of pulp yields could be attained. Wood volume yields were also modest in relation to *E. globulus* but quite acceptable for salt affected soils. It was concluded that *E. camaldulensis* does have some potential as a salt tolerant minor component for integrated tree crop systems. For this reason long term evaluation of wood yield and pulp quality of the large range of selected salinity tolerant *E. camaldulensis* clones was commenced.

4.6 General contribution to afforestation

These projects have been singularly responsible for bringing the integrated tree crop concept into prominence in W.A. The multiple benefits of tree crops and the technical, legal and financial techniques by which they can be achieved have been developed, demonstrated and are now well recognized amongst land management professionals and farmers. The notion that some 10-20% of the farm could be planted to tree crops with an enhancement of both profitability and sustainability has gained wide acceptance. The pulpwood eucalypts, especially *E. globulus*, are recognized to have excellent market prospects, and to be readily integrated into conventional farming practice. The potential for joint venture or sharefarming arrangements to stimulate rapid adoption of planting and creation of a large scale pulpwood industry has been demonstrated by the strong farmer interest stimulated by these projects.

In order to continue the promising commercial and landcare developments involved in Timberbelt Sharefarming CALM set up a new section, the Vegetation and Tree Planting Advisory Service, late in 1990. This section absorbed the NAP project team and undertook the planting of 850 ha of timberbelts using State funds in 1991 (Bartle 1991). Also during 1991 the Water Authority of W.A. commissioned the Vegetation and Tree Planting Advisory Service to undertake plantings in the Denmark Catchment on a fully commercial basis, with the Authority as the investor and the Timberbelt plantings designed to simultaneously meet commercial, landcare and water resources objectives. Only some 50 ha were planted under these arrangements in 1991 but rapid scaling-up is planned.

Large pulp and paper interests have recognized the potential for major investment in farm based pulpwood production in W.A. While the dispersal of trees inherent in integrated planting is seen as a radical step the uncertainty that this engenders is seen by some interests to be more than offset by the community acceptance, diminished cost and easy access to land. Some major industry interests are conducting detailed assessment of involvement in a W.A. industry based on integrated planting.

5. PROMOTION AND PUBLICATION

Field promotion concentrated on grass roots contact with farmers, farmer groups and rural community groups. The network of Land Conservation District Committees (LCDCs) recently established under the Soil and Land Conservation Act proved to be the most useful avenue of contact. Each locality has an LCDC and these provided ready access to motivated farmers.

In 1989 some local newspaper advertising was done but the following generated in that year meant that no further advertising was required. All planting in 1990 (1145 ha) and CALM Timberbelt planting in 1991 (850 ha) could be selected from an open-ended supply from farmers. Publicity was deliberately curtailed to avoid excessive enquiry.

NAP project staff were active in promoting the concept of integrated pulpwood crop planting organizing some 12 farmer field days and participating in more than 50 other field days, seminars and conferences. One general promotional brochure was produced at the conclusion of the planting phase (CALM 1990b).

A video feature presenting the concept of integrated eucalypt pulpwood cropping for a general audience was commissioned in 1989. Other than this no lasting promotional literature was prepared due to the rapid evolution of methods and uncertain future course of industry development.

Contact with other relevant Government agencies and with Local Government was carefully cultivated to ensure full understanding of the integrated tree crop concept. The NAP project team was also called upon to conduct some 20 visiting technical and investor party's on field tours.

Publications and reports prepared during the project are listed in section 8. Major publications are included in the accompanying literature.

6. COMMONWEALTH RECOGNITION

The obligation to erect signs at each planting site was a vexed question. Although there are more than 120 entries on the list of sites (appendix 1) this does not include multiple plots on the same property which nearly doubles the total plot number. With the cost of a basic sign at about $200, the provision of signs was to be a substantial budget item. For this reason the rationale of signposting every plot was examined.

Most plots were quite successful but some 10% performed poorly or failed. These were excluded from consideration for signs. Many plots were located for technical or experimental reasons at sites which did not lend themselves to effective demonstration. For example many plots are distant from view or easy access. In such cases it may even be counterproductive to instal a sign since it may provoke surprise or critical comment from the farmer at the priority given to such an action. Some 50% of plots were excluded for this reason. As an alternative some 10 mobile signs were constructed for use on field days or demonstrations which might include a visit to an unsignposted plot.

Some 50 sites have been signposted. Details of the text and dimensions of the standard sign is provided in appendix 3.

7. End of Grant Financial Report

The total NAP allocation to these projects was $1 449 400. Detailed financial statements for the expenditure of these funds are provided in appendix 4.

The concurrent State contributions which included staff, administration, operational costs and capital was not accounted for in isolation from other State programs and is not given detailed breakdown. Bulk costs for each project are included in appendix 4.

Gross funds expended in the 3 projects under the NAP category are given in Table 2.

TABLE 2

Total NAP expendtiture breakdown

Project	Expenditure $	Allocation $	Balance $
15	1 316 748	1 118 400	-198 348
60	240 029	216 000	- 24 029
161	102 767	115 000	+12 233
Total	1 659 543	1 449 400	-210 143

The surplus in NAP project 161 was used to offset the substantial deficit in the other two projects to give a total deficit of $210 143. CALM continued Timberbelt Sharefarming in 1991 to plant a further 850 ha using State funds in excess of $1 million.

Assets purchased during the project and with a value exceeding $5 000 per item are listed in Table 3.

Table 3

Assets Purchased with NAP Funds

Item	Description	Current valuation
Vehicle	Pajero 4x4	$12 000
Vehicle	Commodore stn sdn	$12 000
Vehicle	Toyota hilux 4x4	$10 000
Bike	John Deere 5 wheel bike + trailer	$ 3 000
Planter	Chatfield tree planter	$ 3 000

note: items exceeding a value of $2 000 only.

The current valuation of these items is small in relation to the over expenditure. The over expenditure, which was fully covered by CALM, can be considered to incorporate the purchase of the assets.

No income was generated during the term of the projects.

8. REFERENCES

Bari MA 1991. Denmark integrayed catchment management experimental study upper Hay River: review of research data. Internal Water Authority report.

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CALM 1990b. Tree crops for profit: the Timberbelt Sharefarming project 1990.

CALM 1991. Deed of Grant of Profit a Prendre.

Ellis G 1990a. Research into the establishment of eucalypt plantation on farmland in the south west of W.A. Proceedings: AFDI Biennial Conference, Bunbury W.A.

Ellis G 1990b. Development of silvicultural techniques under NAP Project 15. Internal CALM report.

Mattinson B, Bartle JR and Hyde C 1989. Timberbelts: the concept and a proposal. Internal CALM report.

Mattinson B, Morrison D and Eckersley 1989. Economics of tree farming in south-west of Western Ausralia. In *Trees - Everybody Profits.* PT Arkell (ed). Australian Institute of Agricultural Science, Occasional Publication 45.

Shea SR and Bartle JR 1988. Restoring natures balance: the potential for major reforestation of south western Australia. Reprinted from Landscope 3.

Silberstein RP and Bennet DL 1990. Peel-Harvey catchment demonstration farm hydrological study. Internal CALM report.

APPENDIX 1: LIST OF PLANTINGS

Name	Address	Shire	Location	Catchment	Area	Year	Northings	Eastings	Longitude	Latitude	Elevation
Andrews		Albany			5	88					
Ball		Albany	PL 6498	Coastal	2	89					
Bell, Don		Albany	PL 5747	King	2	89	139-000	584-800			80
Bell, Terry & Dianne	Albany Hwy, Narrikup	Albany	PL 5746	King	8	89					
Gwyn, Roy		Albany	PL 1931	Napier	1	89					
Howard, John & Joan	RMB 56, Manypeaks	Albany	PL 6688	Kalgan	20	89	162-000	609-500			130
Kiddie, A		Albany	PL 4378	Kalgan	4	89	133-750	586-450	117:56:47	34:56:5	40
Mattinson, David & Sue	RMB 9626, Albany	Albany	PL 5846	Napier	9	89					
O'Dea		Albany	PL 6478	Kalgan	10	89					
Partridge, Kevin	RMB 9591, Chester Pass Rd, Albany	Albany	PL 5840	Napier	10	89			117:55:40	34:53:15	
Beeck G	35 Adelaide Cres, Albany	Albany	PL 5633	Sleeman	5	90	132-900	572-000	117:47:18	34:56:37	70
Bell, Terry & Dianne	Albany Highway, Narrikup	Albany	PL 5740	Sleeman	7	90	142-000	567-550	117:44:20	34:51:43	10
Belfield, John & Maria	C/O Box 1700, Albany	Albany	PL 6199	Kalgan	3	90	151-550	598-200	118:04:23	34:46:24	140
Black, Lindsay	RMB 9669, Albany Hwy, Albany	Albany	PL 6047	Sleeman	7	90	132-400	569-700	117:45:47	34:56:54	65
Cooper, Richard	PO Box 314, Albany	Albany	PL 5756	King	11	90	137-600	578-350	117:51:27	34:54:3	60
Coxall, Doug & Ruth	PO Box 865, Albany	Albany	PL 4740+	Sleeman	10	90	147-400	562-000			110
CSBP Att: Ian Hansen	PO Box 378, Albany	Albany	PL 2	PR Harbour	25	90	125-000	577-000			10
Cusak, Tony	RMB 213, Manypeaks	Albany	PL 6505	Coastal	15	90	158-000	626-800	118:23:4	34:42:43	110
Glenn, Andrew	12 Troy St, Applecross	Albany	PL 6749	Sleeman	3	90	146-800	562-100	117:40:44	34:49:8	115
Griffiths, Phil	RMB 52 Pfeiffer Rd, Manypeaks	Albany	PL 6476	Waychinicup	55	90	160-600	612-200	118:13:29	34:41:25	120
Harvey, Ron	C/O PO Box 1366, Albany	Albany	PL 192	Hay	9	90	122-000	551-000			40
Horne, Michael	RMB 210 Manypeaks	Albany	PL 6479	Waychinicup	8	90	150-000	615-000	118:15:24	34:47:8	100
Lucas, Jennifer	Windrush Farms, Nth Manypeaks	Albany	PL 5963	Kalgan	9	90	151-900	603-500	118:07:51	34:46:10	125
Madden, Dennis	RMB 8012, Deep Creek Rd Albany	Albany	PL 4991	Kalgan	40	90	143-800	591-900	118:00:18	34:50:37	30
Mattinson, David & Sue	RMB 9626, Albany	Albany	PL 5846	King	9	90	139-700	583-000	117:54:29	34:52:53	80
Metcalfe, Patrick	Palmdale Rd, Manypeaks	Albany	PL 7176	Kalgan	25	90	153-800	600-700	118:06:0	34:45:10	120
Miles, Glen & Anne	RMB 185, Manypeaks	Albany	PL 6494	Swan Lake	17	90	154-850	624-000	118:21:16	34:44:26	85
O'Dea, John	RMB 207, Manypeaks	Albany	PL 6478	Waychinicup	6	90	151-500	617-000	118:16:42	34:46:18	90
Ridgeway, Ian	RMB 202, Manypeaks	Albany	PL 6496	Waychinicup	25	90	150-200	623-500	118:20:59	34:46:58	80
Spencer, John & Ann	RMB 171, Manypeaks	Albany	PL 6465	Cordinup	3	90	166-000	627-000	118:23:8	34:38:23	160
Tomlinson, John	Palmdale Rd, Manypeaks	Albany	PL 6255+	Kalgan	4	90	150-750	600-900	118:06:9	34:46:49	115
Walker, Geoff & Ruth	RMB 173, Hassell Hwy, Manypeaks	Albany	PL 6527	Cordinup	3	90	168-000	625-500	118:22:8	34:37:19	160
Beard R		Aug/Marg R			10	89					
Brindley		Aug/Marg R		Blackwood	2	89					
Doig J		Aug/Marg R			6	89					
Dwyer L		Aug/Marg R			2	89					
Green		Aug/Marg R	S2891	Marg River	1	89					
Hartridge		Aug/Marg R	S4274	Scott	5	89					
Klural A		Aug/Marg R			3	89					
Lindberg		Aug/Marg R	S PT I	Blackwood	7	89					
Nazaroff		Aug/Marg R	S4269	Scott	1	89					

Name	Address	Shire	Location	Catchment	Area	Year	Northings	Eastings	Longitude	Latitude	Elevation
Serventy P		Aug/Marg R			3	89					
Snook Dr		Aug/Marg R	S1600		8	89					
Taylor		Aug/Marg R	S 1500	Blackwood	2	89					
Ayres		Bridgetown	N 11951	Balingup	10	89					
Cullen A		Busselton	SUS 1052	Yallingup	1	89					
Geary J		Busselton	SUS 919	Yallingup	1	89					
Peggs K		Busselton	SUS 2365	Vasse	10	89					
Smith C		Busselton	Sus 2542	Carbunup	2	89					
Vasse Res Stn		Busselton		Vasse	25	89					
Hordacre T		Cranbrook	HAY 740	Kent	2	89					
Johnson S		Cranbrook	N 12673	Lake Muir	3	89					
Toovey K		Cranbrook	PL 192	Kent	8	89					
Hall M		Cranbrook	HAY 1998/647	Kent	11	90					
Gelmi		Dardanup	W 3	Ferguson	4	89					
Denmark E C	PO Box 142, Att: Basil Schur	Denmark		Denmark	9	89					
Pedro, Tony	RMB 577, Sunny Glen Rd, Denmark	Denmark	PL 6719	Denmark	6	89	130-600	540-100	117:26:21	34:57:58	35
Thorn		Denmark	PL 6711	Denmark	6	89	136-000	537-000			60
Chappelle, Craig	PO Box 58, Denmark	Denmark	PL 1854	Denmark	4	90	133-650	533-000	117:21:40	34:56:20	55
Denmark Ag School	Att: Fred Knight	Denmark	PL 2046	Denmark	3	90	133-000	533-500			10
Jenkins, Ian	9 Pearse St, Nth Fremantle	Denmark	PL 4202	Kent	23	90	129-300	510-000			70
Johnson, Kim	RMB 1027, Denmark	Denmark	PL 2627	Little River	7	90	127-200	523-500	117:15:27	34:59:20	110
Saggers, Cary & Sue	PO Box 96, Denmark	Denmark	DEN 2019	Denmark	4	90	129-000	528-300			30
Gardiner	Mumballup	Donnybrook	N983	Preston	20	89					
Fels, F.R.	PO Box 94, Esperance	Esperance	Ner 168		9	89			122:14	33:43	100
Middleton, A	RMB 4497, Esperance	Esperance	Esp 1404		4	89			122:05	33:46	70
Wyllie, G & J	PO Box 860, Esperance	Esperance	Myrup AA Lot 8		6	89			122:00	33:44	70
Dept. Agiculture	PMB 50, Esperance	Esperance	Esp 828		5	89			121:53	33:47	60
Cabassi, A	PO Box 387, Esperance	Esperance	Esp 1396		6	89			121:30	33:44	
Eckersley I		Harvey	W 36648	Brunswick	2	89					
Eckersley D		Harvey	W 1074	Harvey	1	89					
Stapleton, Royce		Kojonup	K 6536	Tone	10	90					
Fitzpatrick G		Kwinana		Serpentine	17	89					
Wellard Exporters		Kwinana		Serpentine	3	90					
Barness		Manjimup	N10079	Donnelly	5	89					
Decampo		Manjimup	W 9535	Warren	2	89					
Dinnis		Manjimup	N12913	Donnelly	5	89					
Dunnett		Manjimup	W 3719	Donnelly	1	89					
East, G		Manjimup	W 1024	Donnelly	5	89					
Flannigan		Manjimup	N12138	Gardner	1	89					
Graham		Manjimup	N8258	Warren	10	89					
Lovi F		Manjimup	N12155	Warren	11	89	207-350	420-000			280
Middlesex RS		Manjimup	W 3784	Warren	16	89	195-650	427-350			140
Peos		Manjimup	W 9039	Donnelly	1	89	211-800	412-100			300

Name	Address	Shire	Location	Catchment	Area	Year	Northings	Eastings	Longitude	Latitude	Elevation
Sepkus		Manjimup	N9867	Gardner	2	89					
Morgan		Manjimup	W 1515	Warren	5	90	212-500	425-650			260
Sharp		Manjimup	W 8182	Warren	6	90					
Alcoa		Murray	M1	Murray river	7	89					
Boobbyer G		Murray	M 26	Murray	8	90					
Nancarrow N		Murray	M 1429	Peel	5	90					
Nolan P		Pemberton		Warren	3	89					
Blair D		Pemberton	N8189	Warren	5	89					
Bennett, Geoff & Helen	PO Box 1380, Albany	Plantagenet	PL 5785	Napier	6	89					
Bird, Bill	RMB 1340, Mt Barker	Plantagenet	PL 1082	Napier	2	89	164-600	581-500	117:53:21	34:39:25	250
Carter, Ralph	RMB 590, Mt Barker	Plantagenet	PL 1540	Hay	2	89					
Clark G		Plantagenet	Lot 10	Napier	1	89					
Ferdowsian, Ruhi	Dept of Agriculture, Albany	Plantagenet	PL 2150	Kent	1	89					
Heytsbury		Plantagenet	H 321	Frankland	40	89					
Hunt, Ivan	25 McLeod St, Albany	Plantagenet	PL 5792	Napier	3	89	150-000	587-000			100
Jenkins, Mike	RMB 531, Denbarker	Plantagenet	PL 2161	Denmark	12	89					
Jones, Alan	RMB 515, Denbarker	Plantagenet	PL 2158	Denmark	6	89					
McKenzie		Plantagenet	PL 3305	Napier	6	89	160-850	577-350	117:50:40	34:41:28	240
Patterson, Ken		Plantagenet	PL 6889	Napier	2	89	168-250	580-600	117:52:45	34:37:27	180
Mulcahy		Plantagenet	H 2213	Kent	60	89					
Russell, Doug		Plantagenet	PL 5215	King	6	89					
Stirling K		Plantagenet	HAY 133	Kent	2	89	188-300	552-200			250
Treeby, David		Plantagenet	PL 5976	Napier	8	89					
Bennett, Geoff & Helen	PO Box 1380, Albany	Plantagenet	PL 5785	Kalgan	10	90	154-800	586-600	117:56:45	34:44:42	170
Bush, John & Ruth	PO Box 194, Mt Barker	Plantagenet	PL 5714	Sleeman	12	90	160-000	568-500	117:44:52	34:41:58	180
Campbell, Alex	Spencer Road, Narrikup	Plantagenet	PL 4591	Hay	47	90	153-700	554-400	117:35:39	34:45:26	135
Connell, Greg & Leanne	Armstrong Road, Narrikup	Plantagenet	PL 5977	Kalgan	7	90	157-100	591-850	118:00:11	34:43:26	135
Corke, George & Sue	RMB 1072 Porongorup Rd, Mt Barker	Plantagenet	PL 5403	Kalgan	3	90	165-450	570-250	117:45:59	34:39:1	250
Crouch, R&R	RMB 535 Denbarker	Plantagenet	PL 2185	Denmark	4	90					
Ford, Ross & Ruth	C/O PO, Narrikup	Plantagenet	PL 5410+	Hay	20	90	154-750	554-500	117:35:43	34:44:52	170
Jenkins, Mike	RMB 531 Denbarker	Plantagenet	PL 2161	Denmark	7	90	157-500	532-500	117:21:17	34:43:26	210
McBeath, Graham & Karryn	RMB 1069, Waterman Rd Mt Barker	Plantagenet	PL 5812	Kalgan	15	90	163-000	571-850	117:47:3	34:40:20	255
Morcombe, Michael	RMB 9661A, Albany	Plantagenet	PL 971	Sleeman	5	90	145-100	565-750	117:43:8	34:50:2	105
Plowright, Michael (Joe)	C/o PO, Narrikup	Plantagenet	PL 6594	Sleeman	11	90	147-750	558-150	117:38:8	34:48:38	110
Russell, Doug & Eva	Settlement Rd, Narrikup	Plantagenet	PL 5215+	King	12	90					
Treeby, David	Armstrong Rd, Narrikup	Plantagenet	PL 5976	Kalgan	5	90	158-900	591-750	118:00:6	34:42:27	140
Waterman SOLD	C/O PO Box 65, Mt Barker	Plantagenet	PL 5710	Kalgan	8	90			117:44:47	34:40:30	190
Kentish N		Serpent/Jdale		Serpentine	10	89					
Gerrard Max	1 Page St, Attadale	Serpen/Jdale		Serpentine	10	90					
Bombara		Waroona	W1077	Harvey	5	89					
Bombara		Waroona	W 3222	Harvey	7	89					
Eastcott		Waroona	W 4696	Harvey	7	89					
Muir		Waroona	W 4512	Harvey	10	89					
Treasure		Waroona	W 4699	Harvey	6	89					

Name	Address	Shire	Location	Catchment	Area	Year	Northings	Eastings	Longitude	Latitude	Elevation
Black A		Waroona	M 58	Peel	4	90					
Wunnenberg		West Arthur	W 1600	Collie	65	89					
Clarke		West Arthur	K 1738	Arthur	3	90					
Doudle P		West Arthur	K 8093	Hillman	12	90					
Edkins		West Arthur	K 14429	Blackwood	1	90					
English		West Arthur	K 1407	Arthur	40	90	302-500	477-350			280
Forbes		West Arthur	W 4095	Collie	10	90					
Hilder		West Arthur	N 11991	Blackwood	20	90					
Hulse		West Arthur	K 2593	Hillman	8	90					250
Jeffries		West Arthur	K 8841	Kojonup	22	90	493-600	278-150			260
D. Nile											
Johnson J		West Arthur	K 5181	Kojonup	3	90	497-100	284-500			240
Johnson R		West Arthur	K 4477	Beaufort R	30	90	485-500	289-000			260
D. Nile											
Kerr		West Arthur		Blackwood	6	90					
Lubcke M		West Arthur	W 2117	Collie	45	90					
O'Connell D		West Arthur	K 1525	Arthur	15	90	294-500	480-500			250
D. Nile											
Pritchard		West Authur	K 8839	Kojonup	10	90	487-600	281-350			240
Ricetti		West Arthur	W 3459	Collie	20	90					
Ryan		West Arthur	K 7471	Arthur R	22	90	483-500	282-500			240
South D		West Arthur	W 3750	Collie	25	90	459-500	285-000			290
South D		West Arthur	K 1544	Hillman	1	90					
South R		West Arthur	K 3972	Hillman	50	90	327-000	467-000			
Turnball G		West Arthur	W 3261	Blackwood	50	90					
Turnball G		West Arthur	W 4662	Blackwood	110	90	466-000	282-500			310
Wunnenberg		West Arthur	W 1600	Collie	3	90					

APPENDIX 2: LIST OF EXPERIMENTS

1.0 Multi Factor
Planted 1989
- 1.1 Lindberg (Augusta)
- 1.2 Eckersley (Brunswick)
- 1.3 Green (Margaret River)
- 1.4 Odea (Albany)

Planted 1990
- 1.5 Metcalf (Albany)
- 1.6 Bombara (Yarloop)
  - 1.6.1 Fert x Prep
  - 1.6.2 Pot x Fert x Timing
- 1.7 Johnson (Unicup)

2.0 Spacing/Density Trials
- 2.1 Plaid Density

  Planted 1989
  - 2.1.1 Bombara (Yarloop)
  - 2.1.2 Bamess (Pemberton)
  - 2.1.3 Hartridge (Scott River)
- 2.2 Block Density

  Planted 1989
  - 2.2.1 Wunnunberg (Darkan)
  - 2.2.2 Gardner (Mumballup)
  - 2.2.3 WAWA - Mulcahy (Rocky Gully)
  - 2.2.4 Howard (Albany)

  Planted 1990
  - 2.2.5 Metcalf (Albany)
  - 2.2.6 Johnson (Unicup)
  - 2.2.7 WAWA - Rajander Rd (Darkan)
  - 2.2.8 Black (Coolup)

3.0 Species Mixtures
- 3.1 Species/Provenance

  Planted 1989
  - 3.1.1 WAWA - Wunnunberg (Rocky Gully)
  - 3.1.2 Hartridge (Scott River)
  - 3.1.3 Jenkins (Denbarker)

  Planted 1990
  - 3.1.4 Russell (Albany)
  - 3.1.5 Campbell (Narrikup)
  - 3.1.6 Metcalf (Albany)
  - 3.1.7 Nancarron (Coolup)
  - 3.1.8 Boobyer (Coolup)
  - 3.1.9 Madden (Albany)
- 3.2 Acacia Trial

  Planted 1988
  - 3.2.1 Ayers (Greenbushes)
  - 3.2.2 Fitzpatrick (Mundijong)

  Planted 1990
  - 3.2.3 Turnball (Darkan)
  - 3.2.4 WAWA - Rajander Rd (Wellington)
- 3.3 Acacia/Globulus

  Planted 1990
  - 3.3.1 Boobyer (Peel)
  - 3.3.2 Turnball (Darkan)

3.4 Karri/Globulus
Planted 1989
3.4.1 Ex Ag. Dept (Middlesex)
3.5 Camaldulensis Clones
Planted 1990
3.5.1 Lubcke (Darkan)
3.5.2 Forbes (Bowelling)
3.5.3 Jefferies and Pritchard (Darkan)
3.5.4 Stapleton (Mobrup)
3.5.5 Morgan (Dingup)
3.6 Species/Water Use
Planted 1989
3.6.1 WAWA - Wunnerbergs (Wellington)
3.6.2 Treasure/Henning (Harvey)
3.6.3 Ex Ag. Dept. (Middlesex)

4.0 Pot and Paint Trials
4.1 Planted 1988
4.1.1 Eckersley (Harvey)
4.1.2 Ayers (Greenbushes)
4.2 Planted 1989
4.2.1 Bombara (Yarloop)
4.2.2 Bamess (Pemberton)
4.2.3 Johnson (Unicup)
4.2.4 Dinnis (Manjimup)
4.2.5 Howard (Albany)

5.0 Herbicide Trials (Weed Control)
5.1 Pre Plant Knockdown/Residual
5.1.1 Simazine and Atrazine Rates
Planted 1989
5.1.1.1 Hartridge (Scott River)
5.1.1.2 Ian Eckersley (Brunswick)
5.1.2 Cooch Control
Planted 1989
5.1.2.1 Kentish (Jarrahdale)
5.1.3 Dock Control
Planted 1989
5.1.3.1 Lindberg (Augusta)
5.1.3.2 Jenkins (Denbarker)
5.1.4 Roundup/Oust Trials
5.1.4.1 Planted 1989
5.1.4.1.1 Dinnis (Manjimup)
5.1.4.1.2 Bamess (Pemberton)
5.1.4.1.3 Bombara (Harvey)
5.1.4.2 Planted 1990
5.1.4.2.1 Madden (Albany)
5.1.4.2.2 Campbell (Narrikup)
5.1.4.2.3 Metcalf (Albany)
5.1.4.2.4 Johnson (Unicup)
5.1.4.2.4.1 Unicup 1 - riplines
5.1.4.2.4.2 Unicup 1 - mound
5.1.4.2.4.3 Unicup 2 - riplines
5.1.4.2.4.4 Unicup 2 - mound
5.1.4.2.5 Bombara (Harvey)
5.1.4.2.6 Bamess (Pemberton) - mounds
5.1.4.2.7 Lindberg (Augusta) - mounds

5.1.5 Spray vs No Spray
Planted 1989
5.1.5.1 Dinnis (Manjimup)

5.2 Post Plant Weed Control
5.2.1 Manual Control
Planted 1989
5.2.1.1 Peos (Manjimup)
5.2.1.2 Graham (Pemberton)
5.2.1.3 Johnson (Unicup)

5.2.2 Side Delivery - Bike
Planted 1989
5.2.2.1 Dinnis (Manjimup)
5.2.2.2 Lindberg (Augusta)
5.2.2.3 Bombara (Harvey)
5.2.2.4 Bamess (Pemberton)
5.2.2.5 Johnson (Unicup)

5.3 Lead Times and Rates
Planted 1989
5.3.1 Dinnis (Manjimup)

6.0 Site Preparation Trials
Planted 1989
6.1 Eckersley (Brunswick)
6.2 Johnson (Manjimup)
6.3 WAWA Wunnunbergs (Wellington Catchment)
6.4 Treasure/Henning (Harvey)
6.5 Kentish (Serpentine)

Planted 1990
6.5 Campbell (Narrikup)
6.6 Lubcke (Darkan)

7.0 Fertiliser Trials
7.1 N P Factorials + DAP, Agras & Tree Tablet
Planted 1989
7.1.1 Bombara (Harvey)
7.1.1.1 Gavin sand
7.1.1.2 Joel sand
7.1.2 Nazaroff (Augusta)
7.1.3 Sepkus (Northcliffe)

7.2 Straight N P Factorial
Planted 1989
7.2.1 Dinis (Manjimup)

7.3 Liming on Acid Sands
Planted 1989
7.3.1 Lindberg (Augusta)
7.3.2 Bombara (Harvey)

7.4 DAP, Agras, Tree Tablet, Timing Trial
Planted 1989
7.4.1 Flanagans (Northcliffe)
7.4.1.1 Karri Loam
7.4.1.2 Grey Sand.
7.4.2 Hartridge (Augusta)

7.5 DAP, Agras, NPK Rates
Planted 1989
7.5.1 Howard (Albany)
7.5.2 Ball (Albany)
7.5.2.1 Front Plot
7.5.2.2 Back Plot
7.5.3 Holmes a Court (Rocky Gully)
7.5.4 WAWA Mulcahy (Rocky Gully)
Planted 1990
7.5.5 Campbell (Narrikup)
7.5.5.1 Riplines
7.5.5.2 Mounds
7.5.6 Metcalf (Albany)
7.5.7 Johnson (Unicup)
7.5.8 Madden (Albany)
7.6 Special
Planted 1989
7.6.1 Placement - Bombara (Harvey)

8.0 Miscellaneous
Planted 1988
8.1 Reference Seedling Trial
8.2 Ayres - Grazing Trial (Greenbushes)
8.3 Peel Hardpan Investigation
8.3.1 Blasting
8.3.2 Trench Digging
Planted 1989
8.4 Davies - Black Beetle Control
8.5 Dinis - Double Density Pots
8.6 Peos - Simagranz for Weed Control
Planted 1990
8.7 Bombara Seedling Topping Trial
8.8 Johnson QFD Root Damage Trial

APPENDIX 3: DIMENSIONS AND TEXT OF SIGNS

Dimensions: main board: 800 mm x 600 mm

lettering: large ..... 6 cm
small ..... 3 cm

Text: Timberbelt sharefarming by CALM (large)

Developing bluegums as a viable crop for farmers (small)

National Afforestation Program Project 15 (large)

Supported by Commonwealth Department of Primary Industries and Energy (small)

With CALM logo

APPENDIX 4: FINANCIAL STATEMENTS

FORM A

DEPARTMENT OF PRIMARY INDUSTRY AND ENERGY

NATIONAL AFFORESTATION PROGRAM

FINANCIAL REPORT
DETAIL OF RECEIPTS AND EXPENDITURES

Project No: 15

Title: Integration of short rotation Eucalypts into agricultural systems in the south west of Western Australia

Grantee: Department of Conservation and Land Management (CALM) in association with the Department of Agriculture (WADA) and the Water Authority of Western Australia (WAWA).

ANNUAL AND TOTAL CONTRIBUTIONS

	88/89	89/90	90/91	TOTAL
NAP	385 924	603 921	326 903	1 316 748
CALM	47 000	84 000	89 500	220 500
WADA	57 000	62 000	42 000	161 000
WAWA	82 000	124 000	96 500	302 500
TOTAL	571 924	873 921	554 903	2 000 748

DEFICIT

Moneys overspent on the NAP allocation. Used to offset value of retained goods and equipment and under expenditure on Project 161 $ 198 348

INTEREST

No interest received on moneys standing in credit

EXPENDITURE OF CONTRIBUTIONS TO PROJECT 15

	88/89		89/90		90/91	
	NAP	STATE	NAP	STATE	NAP	STATE
SALARIES						
•staff	134350	96000	188672	190000	107249	186000
•super	16122		22640		9652	
•workers comp	260		1387			
SUBTOTAL	150732		212699		116901	
OPERATING COSTS						
•vehicle hire	65584		100279		40648	
•travel/accom	13371		31132		7651	
•site survey	25803		10038		2345	
•equip hire	3575		5867		508	
•field disposables	13479		10727		6906	
•fence/water	5530		2154		129	
•tools/equip	19860		17254		12729	
•planting	64338		209342		55820	
•publicity	23652		4438		5649	
SUBTOTAL	235192		391222		210002	
OTHER						
•State overheads		40000		40000		42000
CAPITAL						
•State cap		50000		40000		
•vehicles						
•equipment						
TOTALS						
•NAP	385924		603921		326903	
•State		186000		270000		228000

FORM A

DEPARTMENT OF PRIMARY INDUSTRY AND ENERGY

NATIONAL AFFORESTATION PROGRAM

FINANCIAL REPORT
DETAIL OF RECEIPTS AND EXPENDITURES

Project No: 60

Title: Afforestation of farmland in the lower south west using karri.

Grantee: Department of Conservation and Land Management (CALM), W.A.

ANNUAL AND TOTAL CONTRIBUTIONS

	88/89	89/90	90/91	TOTAL
NAP	10 890	218 743	10 396	240 029
CALM		138 000	80 000	218 000
TOTAL	10 890	356 743	90 296	458 029

DEFICIT

Moneys overspent on the NAP allocation: $24 029

INTEREST

No interest received on moneys standing in credit

EXPENDITURE OF CONTRIBUTIONS TO PROJECT 60

	88/89		89/90		90/91	
	NAP	STATE	NAP	STATE	NAP	STATE
SALARIES						
•staff	9772	10000	16504	20000	7664	20000
•super			1980		690	
•workers comp			121			
SUBTOTAL	9772	10000	18605	20000	8354	20000
OPERATING COSTS						
•vehicle hire	232		20775			
•travel/accom			1043		750	
•planting			166152	100000	1292	60000
•misc	886					
•wages			12168			
SUBTOTAL	1118		200138	100000	2042	60000
OTHER						
•State overheads				8000		
TOTALS	10890	10000	218743	128000	10396	80000

FORM A

DEPARTMENT OF PRIMARY INDUSTRY AND ENERGY

NATIONAL AFFORESTATION PROGRAM

FINANCIAL REPORT
DETAIL OF RECEIPTS AND EXPENDITURES

Project No: 161

Title: Develop and demonstrate the commercial potential of eucalypts on salt affected soils.

Grantee: Department of Conservation and Land Management (CALM) in association with the Department of Agriculture (WADA) and the Water Authority of Western Australia (WAWA).

ANNUAL AND TOTAL CONTRIBUTIONS

	89/90	90/91	TOTAL
NAP	38 793	63 974	102 767
CALM	56 000	37 000	93 000
TOTAL	94 793	100 974	195 767

Credit

Used to offset overexpenditure in NAP project 15: $ 12 233

INTEREST

No interest received on moneys standing in credit.

EXPENDITURE OF CONTRIBUTIONS TO PROJECT 161

	89/90		90/91	
	NAP	STATE	NAP	STATE
SALARIES				
•staff	7869	17500	20931	17500
•super	944		2826	
•workers comp	60			
SUBTOTAL	8873	17500	23757	17500
OPERATING COSTS				
•vehicle hire	11700		15823	
•travel/accom	300			
•site survey				
•planting	17000	10500	17916	27500
•pulp test		20000		
SUBTOTAL	29000	30500	33739	27500
CAPITAL				
•misc	920		6478	
TOTALS				
•NAP	38793		63974	
•State		48000		45000

DEPARTMENT OF PRIMARY INDUSTRY AND ENERGY
NATIONAL AFFORESTATION PROGRAM

FINANCIAL REPORT
END OF GRANT

Part A GRANT INFORMATION (Completed by Department of Primary Industries and Energy)

Project No: 15 File No: .....

Approval Date: ..... Completion Date: .....

State: .....

Title: .....

NAP Component: .....

Grantee: .....

Other Organisations Involved: .....

.....

PART B: GRANTEE'S CERTIFICATE (Completed by the responsible officer of the grantee organisation)

I certify that

(i) All grant moneys have been expended solely on the project and for the purpose stated in the grant agreement.

(ii) Moneys provided for the project have been expended as detailed at Form A and as summarised in the Statement of Expenditure:

Statement of Expenditure From Grant

Salaries	$ 480 332
Capital	$ nil
Operating Costs	$ 836 416
Other (Specify)	$ nil
TOTAL EXPENDITURE FROM GRANT	$1 316 748

(III) The Standard Conditions of Grant and any special conditions and restrictions stated in the grant agreement have been compiled with.

Full Name: Sydney Ronald Shea Signature: .....

Title or Designations: Executive Director Date: .....

DEPARTMENT OF PRIMARY INDUSTRY AND ENERGY
NATIONAL AFFORESTATION PROGRAM

FINANCIAL REPORT
END OF GRANT

Part A GRANT INFORMATION (Completed by Department of Primary Industries and Energy)

Project No: 60 File No: .....

Approval Date: ..... Completion Date: .....

State: .....

Title: .....

NAP Component: .....

Grantee: .....

Other Organisations Involved: .....

.....

PART B: GRANTEE'S CERTIFICATE (Completed by the responsible officer of the grantee organisation)

I certify that

(i) All grant moneys have been expended solely on the project and for the purpose stated in the grant agreement.

(ii) Moneys provided for the project have been expended as detailed at Form A and as summarised in the Statement of Expenditure:

Statement of Expenditure From Grant

Salaries	$ 36 731
Capital	$ nil
Operating Costs	$ 203 298
Other (Specify)	$ nil
TOTAL EXPENDITURE FROM GRANT	$ 240 029

(III) The Standard Conditions of Grant and any special conditions and restrictions stated in the grant agreement have been compiled with.

Full Name: Sydney Ronald Shea Signature: .....

Title or Designations: Executive Director Date: .....

DEPARTMENT OF PRIMARY INDUSTRY AND ENERGY
NATIONAL AFFORESTATION PROGRAM

FINANCIAL REPORT
END OF GRANT

Part A GRANT INFORMATION (Completed by Department of Primary Industries and Energy)

Project No: 161 File No: .....

Approval Date: ..... Completion Date: .....

State: .....

Title: .....

NAP Component: .....

Grantee: .....

Other Organisations Involved: .....

.....

PART B: GRANTEE'S CERTIFICATE (Completed by the responsible officer of the grantee organisation)

I certify that

(i) All grant moneys have been expended solely on the project and for the purpose stated in the grant agreement.

(ii) Moneys provided for the project have been expended as detailed at Form A and as summarised in the Statement of Expenditure:

Statement of Expenditure From Grant

Salaries	$ 32 630
Capital	$ 7 398
Operating Costs	$ 62 739
Other (Specify)	$ nil
TOTAL EXPENDITURE FROM GRANT	$ 102 767

(III) The Standard Conditions of Grant and any special conditions and restrictions stated in the grant agreement have been compiled with.

Full Name: Sydney Ronald Shea Signature: .....

Title or Designations: Executive Director Date: .....