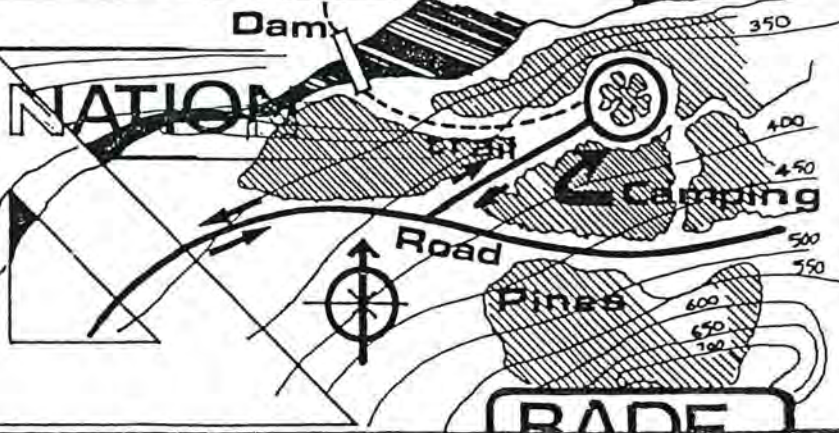


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DEPARTMENT OF CONSERVATION  
& LAND MANAGEMENT  
WESTERN AUSTRALIA



# SERPENTINE



RECREATION AND LANDSCAPE BRANCH  
**STRATEGIC PLAN**



DEPARTMENT OF CONSERVATION AND LAND MANAGEMENT WEST AUSTRALIA

RECREATION AND LANDSCAPE BRANCH  
STRATEGIC PLAN  
1988 - 1992

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## APPENDIX

## 1.0 INTRODUCTION

The Department's Strategic Plan has identified a number of key organisational goals including the preparation and implementation of strategic plans for regions and specialist branches. These plans are intended to provide an operational framework for achieving Departmental objectives as well as guiding the future development of CALM. The plan which follows provides such a framework for the Recreation and Landscape Branch, one of seven technical service units within CALM.

### 1.1 Aim and Scope of the Plan

The aim of the Recreation and Landscape Branch Strategic Plan, which covers the five year period from 1988 through 1992, is as follows:

- 1) To establish a programme of Branch operations and technical support which is consistent with the broad management strategies and priorities identified in the Corporate Strategic Plan.
- 2) To identify the staff and financial resources required to implement this programme

In addition, the plan also includes a brief summary of existing programmes and commitments. Thus it is both a record of Branch activities and achievements in the three years since the formation of CALM as well as a blueprint for future operations.

The plan is divided into four main sections. In the introductory section, the planning objectives and outcomes from the Corporate Strategic Plan which are of greatest relevance to the Branch are identified and listed. Section 2 provides a descriptive overview of the Branch as it is currently constituted. A brief synopsis of Branch functions, personnel and operations is included in this section. In Section 3, an operational programme for the next five years is presented while the concluding section provides a summary of the resources required to implement this programme.

## 1.2 Strategic Objectives and Outcomes

CALM's Strategic Plan identifies several broad strategies which are of primary importance to the functioning of the Recreation and Landscape Branch. These are:

- . Establish and maintain a system of secure reserves which protect viable representative samples of all the State's natural ecosystems and species, both terrestrial and aquatic, as well as areas suitable for recreation and the production of renewable natural resources.
- . Ensure that conservation and land management is carried out according to sound, well-researched scientific principles.
- . Develop opportunities for the recreational use of lands and waters entrusted to the Department.

In addition, a further three corporate strategies have a direct bearing on the Branch's current and proposed involvement with Information and Planning Branches, Regional and District staff and with the general public. These are:

- . Provide public education and information programmes designed to increase community understanding of and support for nature conservation and natural land management.
- . Encourage and assist the public to participate in the development of conservation and land management policies and the implementation of management and research programmes.
- . Prepare and implement management plans for lands and waters entrusted to the Department.

The Departmental plan also identifies sixteen major outcomes to be achieved during the period 1987 - 1991. These are intended to expand, renew or create the systems and procedures required by CALM for efficient management. While most if not all of these outcomes are of some relevance to the future functioning of the Branch, two are of particular importance. They are:

- . A programme to ensure that all Departmental recreation areas and facilities are functional, attractive, safe and efficient to manage and maintain will be developed and implementation commenced.
- . A landscape management strategy will be written and implementation commenced.

In summary, it is these eight broad strategies and "outcomes" which provide the overall direction for future Branch operations and which have guided the formulation of this plan. The Department's strategies for Conservation and Recreation and Timber Production will likewise serve to guide future Branch works programmes and priorities.

## 2.0 BRANCH FUNCTIONS AND OPERATIONS

The Recreation and Landscape Branch was primarily established to provide specialist technical assistance to operations staff in the following areas:

- . Broadscale recreation and landscape planning
- . Detailed site planning and design of recreation areas and facilities
- . Development of sign and recreation facility standards
- . Collection and analysis of visitor use data on CALM lands
- . Assessment and classification of landscape (visual) resources
- . preparation of landscape management plans and operational guidelines for a wide range of Departmental activities

In addition, the Branch also has an important role to play in the areas of policy formulation and review, staff training and in the broader sphere of community education and liaison. These functions are described in greater detail in Section 3.

### 2.1 Branch Structure and Personnel

The Recreation and Landscape Branch is one of seven specialist groups comprising the Technical Services Division of CALM. The Branch reports directly to the Technical Services Divisional Manager, who is responsible for the administration and overall co-ordination of specialist assistance to the operations sector of the Department. The Branch's position in the Departmental hierarchy is shown in the attached organisational structure diagrams.

*cf 1987.*

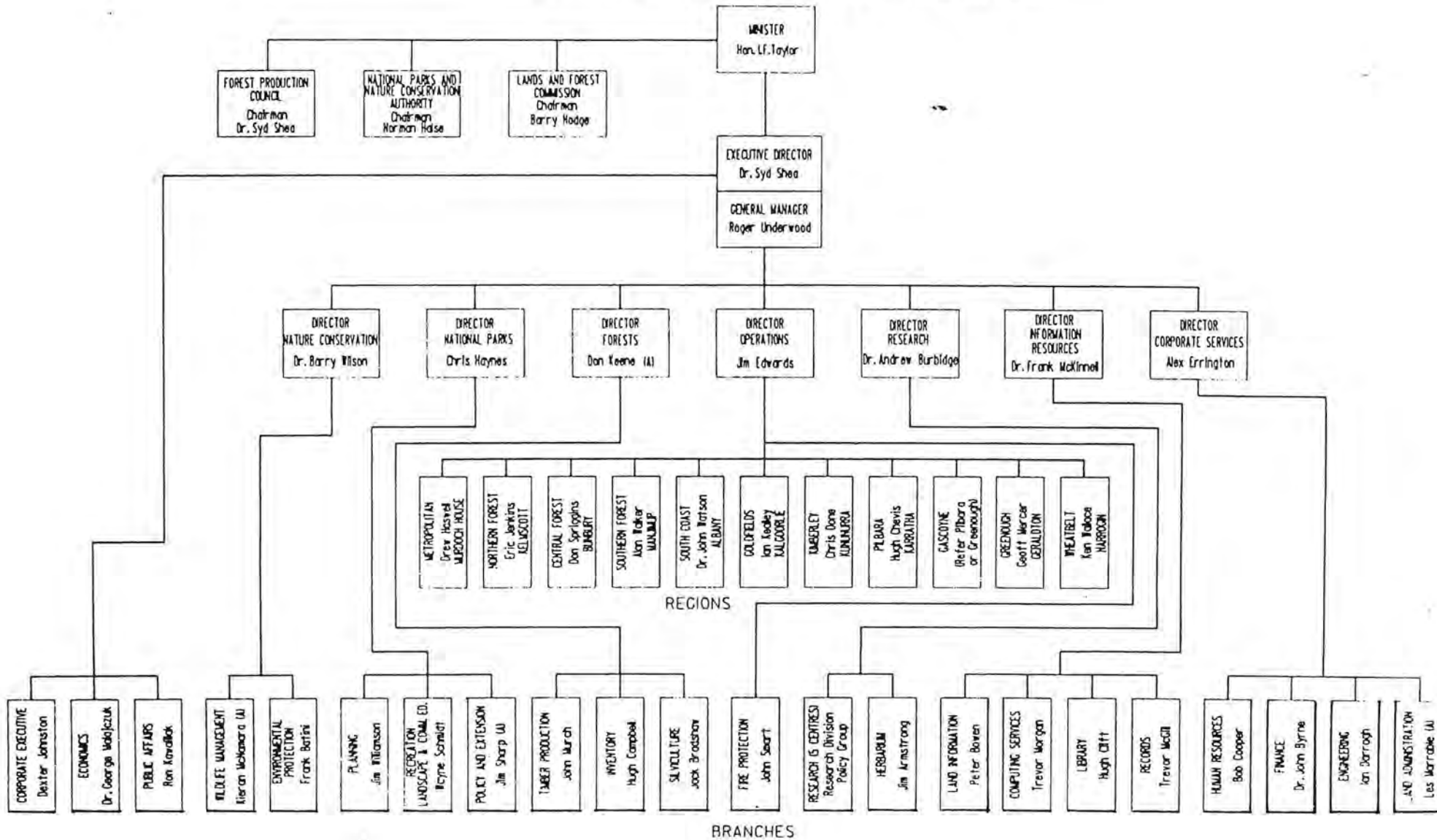
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*1989*

*cf 1988*

# DEPARTMENT OF CONSERVATION AND LAND MANAGEMENT

ORGANISATIONAL STRUCTURE AS AT DECEMBER 1989



CALM - PARKS, RECREATION & PLANNING DIVISION

Director

Secretary

Manager, Planning  
Branch

Manager, Recreation,  
Landscape & Community  
Education Branch

Manager, Policy &  
Extension Branch

Visual  
Resources  
Management

Recreation  
Planning &  
Development

Community Education  
& Interpretation  
Section

Aboriginal  
& Special  
Interests

Volunteer  
Coordination  
Section

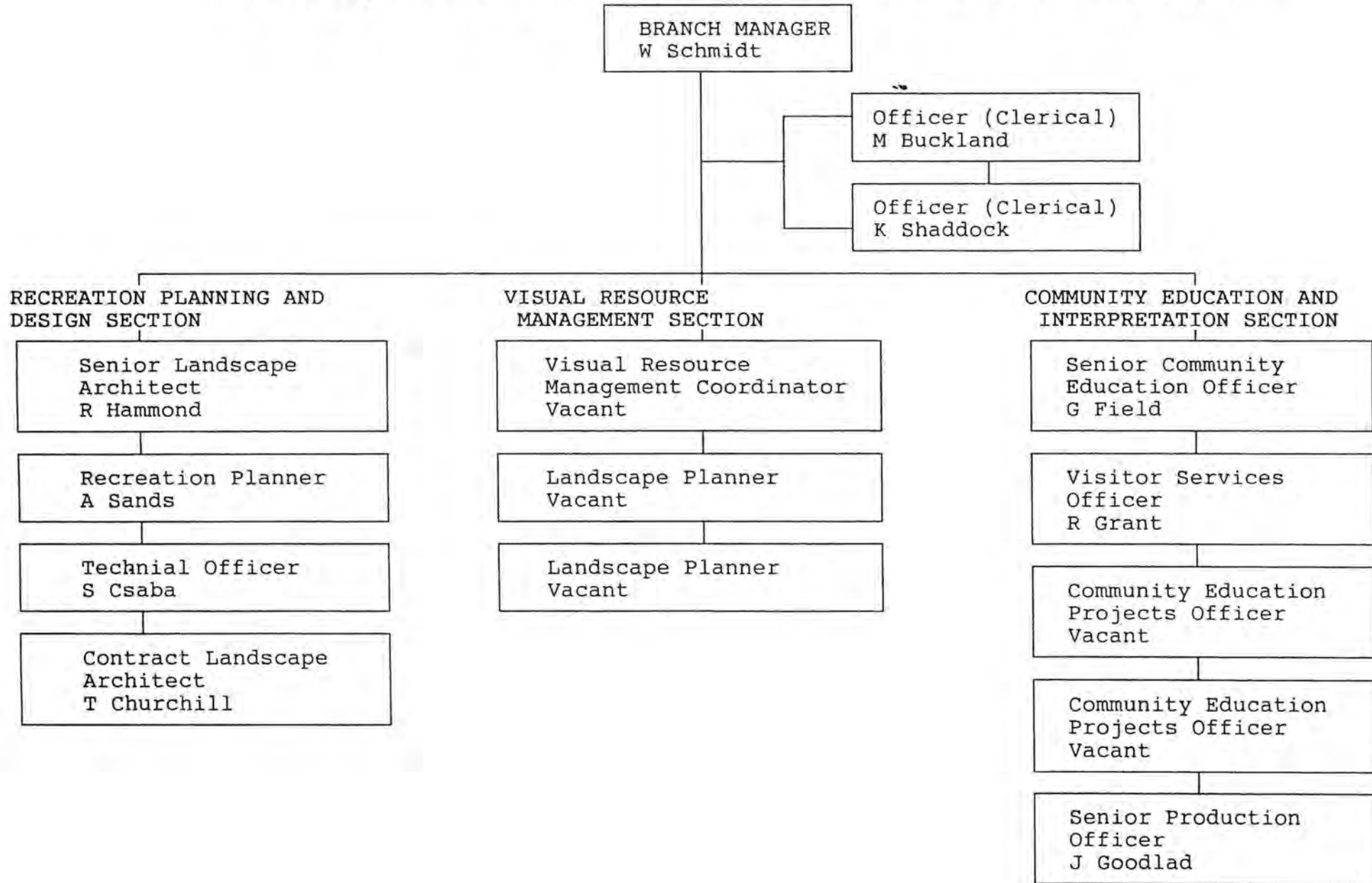
Visitor Services  
& Market Research  
Section

Staff as of November 1989

- \* Senior Interpretation Officer      Level 5
- \* Community Education &  
Interpretation Officer      Level 4
- \* Community Education &  
Interpretation Officer  
(Special Projects)      Level 4
- \* Production Officer      Level 4
- \* Clerical support



RECREATION, LANDSCAPE AND COMMUNITY EDUCATION BRANCH - ORGANISATIONAL CHART



The Branch has been operational since August of 1985, when it was established with three officers. Since then, staff numbers have increased to six permanent officers and one temporary position. The title, level and responsibilities of each of these positions is briefly outlined in Table 1.

The Branch has, subject to the availability of finances and staff ceiling levels, also employed landscape architect students or graduates on short term contracts of two to three months duration. These appointments, of which there have been two in the past fifteen months, have enabled the Branch to increase its assistance to operations staff while at the same time providing on-the-job training for prospective future employees.

Tertiary students in other disciplines including outdoor recreation and industrial design have also been "commissioned" by the Branch on a non-paying basis to undertake research or design projects relating to their field of study. As many as six students have been supervised by Branch staff at any one time.

## 2.2 Branch Works Programmes

The Branch has completed or is currently servicing a large number of planning and design related projects throughout the State. These range from involvement in the formulation of draft area management plans to the preparation of detailed recreation site development plans and specifications. Other important initiatives and work commitments include:

- . the development of a Visual Resource Management system in the Southern Forest Region
- . the design and implementation of a system for collecting and analysing information on the public's use of CALM areas for recreation
- . the redevelopment of the Bibbulmun Track and the release of a new Guidebook
- . the revision of the existing Sign and Recreation Operations Manuals
- . the training of operations staff in recreation management

TABLE 1 : RECREATION AND LANDSCAPE BRANCH  
CURRENT POSITIONS AND KEY RESPONSIBILITIES

POSITION	LEVEL	RESPONSIBILITIES
BRANCH MANAGER	A1/6-8	Responsible for the general administration and operation of the Branch; assists the Senior landscape architect with project work as time permits
SENIOR LANDSCAPE ARCHITECT	6	Carries out landscape assessments, prepares management guidelines, site plans and specifications, evaluates recreation resources and trains staff in landscape management and site planning
SOCIAL RESEARCH SCIENTIST	5	Develops systems for the efficient collection, analysis and dissemination of information on visitor uses, preferences and perceptions which satisfies the Department's planning and management requirements for such information
PROJECTS OFFICER	4	Assists with the planning of various recreational projects and educational programmes and liaises with operational and technical staff in their implementation
TECHNICAL OFFICER	2	Prepares technical drawings, plans and specifications associated with recreational landscape management projects; liaises with other Departmental staff in the maintenance of recreation facility and sign standards; maintains a record of Branch expenditure, and prepares accounts for payment
RECREATION OFFICER	2	Assists Senior Landscape Architect in landscape assessment and recreation site planning projects; organises vehicle maintenance and submits running sheets
LANDSCAPE PLANNER	CONTRACT	Formulates and co-ordinates the implementation of a Visual resource Management System for Department lands, initial emphasis on hardwood logging operations in the Southern Forest Region

- . the establishment of a community-based volunteer programme for conducting recreational and educational activities on Departmental lands in association with Information Branch
- . representing CALM on three interdepartmental committees or working groups and two internal committees.

A detailed list of current and recently completed Branch projects is presented in Appendix A.

### 3.0 PROPOSED FIVE YEAR OPERATIONS PLAN

The following section provides an outline of proposed Branch operations and initiatives for the five year period from 1988 through 1992. This operational programme covers seven specific Branch functions or services: broadscale planning, recreation area and facility design, development of sign and facility standards, collection and analysis of visitor use data, landscape planning and management, special projects and staff training. A brief description of the objectives, proposed programme and projected staff requirements for each of these seven functions/services is presented.

#### 3.1 Broadscale Planning

Operational objectives: Assist Regional, District and Planning Branch staff in the preparation of regional and area management plans. The Branch's role in broadscale planning will vary but may include:

- . development and application of planning methodologies
- . recreation and visual resource assessment
- . consultation in the preparation of recreation zoning and management strategies
- . preparation of conceptual development plans in accordance with management strategies
- . formulation of landscape management guidelines and prescriptions for resource protection and rehabilitation
- . liaison with other government officers and interested individuals or organisations

Current Involvement: Branch staff have assisted Planning Branch with the preparation of four management plans (Leeuwin-Naturaliste, Shannon-d'Entrecasteaux, Cape Range and Forrestdale Lake) and are currently involved in several others

(Fitzgerald River, Bungle Bungle and Yanchep). This assistance has varied from reviewing and commenting on planning options and strategies to serving as members of project planning teams.

The Branch's commitment to broadscale planning averaged four months of officer time per annum over the last three years (eg. equivalent to one third of a full time officer for one year). The majority of this time commitment has come from the Senior Landscape Architect and Branch Manager.

Proposed Programme: Broadscale planning is one of the Department's key functions and the continued involvement of Branch staff in planning is regarded as essential. It is expected that future Branch involvement in the preparation of those area management plans nominated in Planning Branch's five year programme will continue to average four months of officer time per annum. It is proposed that this level of support be maintained.

### 3.2 Recreation Area and Facility Design

Operational Objectives: ~~In consultation with district and regional personnel, and regional Parks and Reserves officers,~~ prepare plans and specifications for the development of new recreation areas and facilities or the redevelopment of existing areas.

Current Involvement: Recreation site planning has and continues to be one of the most important Branch functions, both in terms of priority and officer time commitment. At any one time, Branch staff may be collectively involved in over 20 separate design projects and it is estimated that this function alone occupies the equivalent of two officers full-time per annum. The type of assistance rendered ranges from purely advisory to the preparation of detailed plans and specifications and the provision of assistance in project implementation.

Given the general increase in outdoor recreation activity throughout the State and the large number of recreation areas on Departmental lands in need of redevelopment, the demand for site planning assistance is not expected to diminish over the next four to five years. The Branch as currently staffed is incapable of adequately servicing all site planning needs, with the consequence that private consultants have been increasingly employed for specific projects.

Proposed Programme: Branch assistance to operations staff in recreation site planning will prove most effective if it is coupled with a comprehensive assessment of all Department recreation facilities to ascertain:

1. The general use and condition of existing areas and facilities
2. The need for redevelopment, rehabilitation or closure of these areas and facilities

Such an inventory will ensure the Departmental site planning expertise and redevelopment resources are directed at those areas and facilities which are in greatest need of upgrading. It is therefore proposed that this assessment be commenced by regional and district personnel in mid 1988 and completed by early 1989 in time for the results to be incorporated in the 1989/90 estimates. Branch involvement in this inventory and evaluation programme will include the preparation of a standardised assessment form, guidelines and project co-ordination.

In addition, the level of recreation site planning assistance to districts and regions needs to be expanded if CALM is to achieve its strategic objective of ..... "ensuring that all Departmental recreation areas and facilities are functional, attractive, safe and efficient to manage and maintain". Over the past 18 months, private consultants have been increasingly employed to assist Regional and District staff on recreation site planning projects. While such assistance has generally been of a high professional standard, the employment of consultant site planners is not particularly cost effective and often generates extra work for the Branch during project implementation. Consequently, one or more additional staff trained in landscape architecture or recreation planning will need to be employed within the Recreation and Landscape Branch to adequately service the projected demands over the next five years. Alternatively, the creation of additional Parks and Reserves officer positions in one or more of the non-forest regions and the appointment of staff skilled in site planning to these positions would considerably augment the Branch capabilities in this area. At the very least, the existing level of Branch assistance in recreation site planning will need to be continued if standards are to be maintained.

### 3.3 Development of Sign and Facility Standards

Operational Objective: Prepare and disseminate design guidelines and specifications covering such aspects as recreation site planning and development, signs, site furniture and walk trail construction. In addition, the Branch serves as a 'clearing house' for assessing and circulating new ideas and innovations amongst operations staff.

3.4 provide

Current Involvement: Considerable effort has been directed towards improving the standard of recreation facilities and signposting since the establishment of CALM in 1985. This work has been assisted by the existence of the Recreation Operations and Sign Manuals, both of which are presently being revised prior to reprinting.

As well as setting and disseminating standards, the Branch also is heavily involved in the design and ordering of signs (both routed timber and processed graphic signs) for district and park staff, particularly in the non-forest regions.

This work includes the design of new sign formats in conjunction with Information Branch personnel and the development of additional symbols on request. Collectively, the revision of the two manuals and the design and processing of sign orders has occupied the equivalent of one officer full time for six months of the year. Most of this work is performed by the Branch Technical Officer.

Proposed Programme: Three specific tasks are to be undertaken during the period of this plan. These are:

1. Complete the revision of the existing Sign Manual, reprint and disseminate to Parks, District and Regional staff. (Projected completion date - July, 1988).
2. Prepare new design specifications for display shelters, toilets and other site furniture/structures (projected completion date - December, 1988).
3. Revise and reprint the Recreation Operations Manual and issue as both an office reference and field guide (projected completion date - July, 1989).

In addition, all sign and recreation facility standards will be continuously assessed and periodically updated as required.

### 3.4 Collection and Analysis of Visitor Use Data

Operational Objectives: To design and implement a programme for the collection and analysis of information on the public's use of Departmental lands for outdoor recreation. This visitor data collection and monitoring programme is intended to assist in policy formulation, planning and design, management, marketing and economic analyses and budgeting. The emphasis is in designing a cost-effective database which will provide a mechanism for identifying, monitoring and assessing trends in recreational use over time. The information generated from this programme will form part of the Department's corporate database and will be integrated into the Geographic Information System (G.I.S.) as staff resources permit.

Current Involvement: The Branch has established a social research programme to gather information on the public's use of Departmental lands for recreation and their attitudes and perceptions on various management operations. The initial focus of this programme is on the systematic collection and assessment of visitor use information for an extensive network of parks, reserves and forest areas situated throughout the State.

To date, the following tasks have been achieved:

1. Assessment of the type and extent of visitor use information which is currently available within the Department
2. Identification of visitor data needs for planning, management marketing and economic forecasting purposes
3. Development of preliminary guidelines and procedures for the collection of data from nominated "baseline" parks, reserves and forest areas

Proposed Programme: Following the refinement of data collection guidelines and procedures, the next stage of the project will be to disseminate this material and to conduct follow up training sessions with Park, District and Regional staff. It is anticipated that the visitor data collection programme will be fully operational by the end of August, 1988. Thereafter, the Social Research Scientist will continue to be involved in such aspects as data analysis, survey design and advising on the application of the guidelines



to specific areas of the CALM estate. Information processing responsibilities will be shared between the Regions and/or Districts and the Branch, who will oversee the compilation and entry of data into the Department's corporate database. It is projected that this work will occupy the research scientist on a half-time basis with the remaining officer time being devoted to the following tasks:

1. Conduct landscape preference studies to verify the scenic quality classifications developed as part of the Visual Resource Management System for the Southern Forest Region (refer to Section 3.5)
2. Assess bauxite mining rehabilitation options in terms of their scenic appeal using appropriate landscape preference testing procedures.
3. Initiate case studies on the public's reaction to and attitude towards various management activities such as prescribed burning, timber harvesting and plantation establishment as directed.

### 3.5 Landscape Planning and Management

Operational Objectives: Assist operations staff in ensuring that management activities are planned and carried out so as to maintain the character and/or enhance the scenic appeal of the landscape in which they occur. This can be best achieved through the development and implementation of a Visual Resource Management System (VRM) which will ultimately provide a systematic basis for:

- . inventorying, assessing and classifying scenic resources on CALM lands
- . predicting and evaluating the visual impact of proposed land use activities such as road construction, timber harvesting, mining, development of utility corridors, etc.
- . recommending how impacts associated with such activities can be mitigated through the application of landscape planning and design principles and area and operation specific guidelines

Current Involvement: The Branch currently services a variety of landscape planning and design needs ranging from the preparation of landscape plans and specifications for building projects to the assessment of major operations such as open-cut mining. Over the past year, the two Branch officers trained in landscape planning have been increasingly called upon by operations staff to assist with visual impact assessment and the development of landscape management guidelines for specific programmes such as five year logging plans.

Such project level work is a key function of the Branch and it is anticipated that the demand for this type of assistance will expand rapidly as staff awareness of the need for sensitive landscape management increases. Currently, the Branch spends approximately four months of officer time per annum servicing requests for landscape planning and assessment advice. The effectiveness and efficiency of providing project level assistance is limited however where there is not broadscale landscape classification and management system to support and guide such assessments. For this reason, the Department embarked upon the formulation of the Visual Resource Management System in September, 1987. Work on the VRM, which is based on existing U.S. Forest Service and Victorian models, has been concentrated in the Southern Forest Region. A landscape planner has been employed on a one year contract and his programme is being directed by the Branch's Senior Landscape architect with assistance from regional and district staff. At the completion of this contract position in August of 1988, it is expected that the landscape inventory and classification work in the region will have been completed. In addition, work will be well advanced on the preparation of activity and area specific management guidelines.

Proposed Programme: The Department's strategic plan has indicated, as a matter of priority, that a landscape management strategy be prepared and implemented. This objective will be largely achieved through the following Branch initiatives:

1. The VRM System will be extended to the Northern and Central Forest Regions and, resources permitting, to other regions of the State. While varying VRM scenarios are dependent upon staffing levels and the

support and commitment forthcoming from Operations staff, the following programme and timetable is proposed:

Southern Forest Region

1987-88...establish and evaluate visual resource management trials under the direction of full-time landscape architect (existing contract position)

1988 and beyond...application assistance and monitoring by appointment of a second permanent landscape architect, Recreation and Landscape Branch

Central Forest Region

1988-89...establish VRM system and commence field application trials by contract landscape architect (2 year term)

1989 and beyond...application assistance and monitoring by permanent landscape architects, Recreation and Landscape Branch

Northern Forest Region

1989-90...establish VRM system and commence field application trails by contract landscape architect (as for Central Forest Region)

1990 and beyond...application assistance and monitoring by permanent landscape architects, Recreation and Landscape Branch.

2. A comprehensive in-service training course on visual resource management for all Department staff involved in planning and field operations will be commenced. The training programme will be regionally based and will be conducted by Branch staff in association with the contract landscape architect/planner (projected completion date - December 1989 with periodic refresher courses thereafter).

At the same time, project level assistance to operations staff will need to be expanded to effectively service regional and district needs. This can only be achieved through the appointment of a second permanent landscape architect to the Branch, as provided for in the original Branch structure.

### 3.6 Special Projects

Operational Objectives: Assist operations staff and other technical services personnel in the planning, co-ordination and implementation of various recreational and educational projects which have widespread application throughout the Department and the community.

Current Involvement: The Branch Project Officer is presently involved in three specific projects as follows:

1. Bibbulmun Track Redevelopment - realignment and extension of the existing track along with the development of a series of campsites. In conjunction with this work, the current Guidebook is being revised and is scheduled for reprinting in mid 1988 as a prelude to incorporating the Track into the State's Heritage Trail network. Specific project responsibilities include:
  - . liaison with District and Regional staff in identifying realignment requirements and options and evaluating alternatives
  - . liaison with other authorities including the Water Authority, Alcoa and W.A. Heritage Trail Secretariat involved with the project
  - . supervision of contracts for the installation of toilet facilities and construction of campsites
  - . co-ordination of publication and mapping personnel involved in the revision of the existing Guidebook
  - . preparation of draft guidebook text
  - . design of track signposting standards
  - . co-ordination of District staff in carrying out the signposting program (and removing old markers)
  - . co-ordinating the official opening of the new track and its inclusion in the Heritage Trail network
  - . organising the Bibbulmun Walk '88.
  
2. Gosnells Junior Park Ranger Scheme - the Projects Officer currently serves as a member of the scheme Steering Committee and was responsible for co-ordinating the first environmental awareness course. The scheme is presently run by a permanent, part-time co-ordinator and is funded by an annual City of Gosnells grant.

3. Expedition Skills Courses - this training programme offers community leaders (e.g. teachers, scout leaders, etc.) the opportunity to obtain both practical and theoretical skills which will enable them to confidently plan and lead field trips and expeditions in semi-wilderness environments. There is currently a basic skills course and a more advanced leadership course. The Projects Officer represents the Department on the Expedition Skills Advisory Board which is responsible for co-ordinating training programmes and setting standards. In addition, the projects officer is actively involved in organising and conducting the various training courses.

In addition, the Projects Officer also handles requests (both internal and external) for information on outdoor recreation opportunities which cannot be serviced by Como staff due to the specialist nature of the inquiry. Included are requests for talks to various clubs or interest groups as well as written responses to specific inquiries.

Proposed Programme: With the winding down and completion of the Bibbulmun Track redevelopment project in September, approximately 50% of the Project Officer's works programme will be freed up. Consequently, the Project Officer position will be directed into assisting in the development and co-ordination of community run programmes on environmental awareness and nature-based recreation. This initiative will be undertaken in liaison with Information Branch personnel and regional and district staff.

Specific project objectives and strategies are as follows:

Objectives:

1. Develop community appreciation for nature conservation through direct involvement and participation in outdoor recreation activities
2. Increase public awareness of the opportunities for meeting community recreation needs compatible with nature conservation

3. Develop an appropriate mechanism for utilising community expertise to assist Department personnel in conducting appropriate educational and recreational programmes on CALM lands.

Strategies:

1. Initiate and co-ordinate a range of recreational activities such as bushwalking, nature study, canoeing, and craftwork which are appropriate to natural environments and which have broad public appeal.
2. Set up an appropriate infrastructure for recruiting and training community volunteers who can assist in conducting environmental education and recreational activities.
3. Develop the administrative guidelines and procedures required to ensure that all educational and outdoor recreation programmes meet the Department's standards in environmental protection and public safety.
4. Ensure the financial viability of all activity programmes be seeking outside sponsorship as appropriate.
5. Ensure all educational and recreational activities are available to the widest possible cross-section of the community, including low-income and single parent families, the handicapped, the elderly, etc.

3.7 Staff Training

Operational Objectives: Assist in developing and maintaining staff expertise in recreation and landscape management at the regional, district and park level. This will be primarily achieved by conducting periodic in-service training courses which meet the Department's personnel development and staff training needs in these two areas. In particular, these courses should ensure that staff share a common understanding of the Department's recreation and landscape management responsibilities and the principles and procedures to be applied in meeting these responsibilities.

Current Involvement: Over the past fifteen months, a four member training team have conducted eleven recreation management workshops throughout the State. Over 200 CALM officers including Regional and District Managers, National Park rangers, Forest Field staff and Overseers have participated in these workshops.

The Branch's role has been to organise and co-ordinate this training programme and to supply two members of the training team. This programme has occupied the equivalent of four months of officer time per annum.

In addition, the Branch also participates in the Field Cadet Training programme each year by conducting a two day programme on recreation planning and management principles followed by an extended field exercise. This latter training exercise is co-ordinated through one of the southern regions and involves a "design and construct" type project of two weeks duration.

Proposed Programme: The following training initiatives will be undertaken during the period of this plan:

1. An advanced recreation management workshop for District Recreation officers, National park Rangers and other staff will be conducted on an annual basis commencing in August, 1988. The course will build on the concepts and principles presented in the introductory series of regional workshops. In particular, the course will be structured to satisfy the following objectives:
  - . Establish a clear understanding of CALM's responsibilities, policies and approach to recreation management on Departmental lands
  - . Explain the essential principles and procedures to be used in planning and managing natural environments for public recreation
  - . Update participants on the latest standards, techniques, products and materials applicable to recreation management
  - . Provide a forum for the interchange of ideas and experience among operations and specialist staff involved in recreation planning and management
  - . Satisfy the practical skills training requirements in recreation management for those National Park Rangers who are undertaking the Certificate in National Park Management
2. Further introductory workshops on recreation management will be organised on a needs basis each year. The next workshop will be conducted at a central venue during the 1988.

3. A one-day workshop on recreation management is to be held for the Policy Directorate and other senior staff in June, 1988. This seminar will be largely based on the material presented in the series of regional workshops.
4. Branch staff will continue to assist in the training of Field Cadets on an annual basis. The course content will be periodically reviewed and updated to reflect recent advances in recreation planning and management procedures.
5. A comprehensive training programme in visual resource management will be initiated as outlined in section 3.5.

Implementation of this training programme is expected to require approximately four months of officer time per annum in the first two years of the planning period (e.g. 1988 - 1990), decreasing to three months thereafter.

#### 4.0 SUMMARY

The Branch Strategic Plan has been structured so as to provide a basis for comparing existing work programmes and commitments with those programmes and initiatives proposed over the next five years. It is expected that all programmes and new initiatives outlined in this plan will be completed and fully operational by December, 1992. As indicated in Table 2, implementation of this proposed Branch programme will require the appointment of three additional staff (two permanent and one contract).

In summary, the Branch plan has been designed to reflect the high priority placed on recreation and landscape management in the Department's Strategic Plan. Achievement of the relevant strategic objectives and outcomes as identified in Section 1.2 of this plan are dependent on the future availability of staff resources to initiate, plan, co-ordinate and help implement the various programmes as outlined.



TABLE 2.

Comparison of Current and Proposed  
Branch Works Programmes

FUNCTION/SERVICE	FULL TIME EMPLOYEE EQUIVALENTS (F.T.E.)		COMMENTS
	EXISTING	PROPOSED	
Broadscale planning	0.33	0.33	
Recreation area and facility design	2.00	3.00	Employment of an additional land- scape architect/ site planner
Development of sign and facility standards	0.50	0.50	
Social research programme	1.00	1.00	
Landscape planning and management . systems development . project work	1.00 0.33	1.00 1.33	Employment of an additional land- scape architect and a contract land- scape planner (2 year contract)
Special projects	1.00	1.00	
Staff training	0.33	0.33	
Other (Branch Administration)	0.50	0.50	
TOTALS	7.00	9.00*	8 Permanent 1 Contract

APPENDIX A: List of Current  
and Completed Recreation  
and Landscape Branch Projects  
(as of March 31, 1988)

RECREATION & LANDSCAPE BRANCH: CURRENT & COMPLETED  
PROJECTS (MARCH, 1988)

REGION	PROJECT	DESCRIPTION									STATUS			
		BROADSCALE RECREATION PLANNING	RECREATION SITE PLANNING/DESIGN	PREPARATION OF GUIDELINES/STANDARDS	VISITOR INFORMATION/ INTERPRETATION	LANDSCAPE ASSESSMENT	LANDSCAPE PLANNING/DESIGN	TRAINING - INTERNAL	TRAINING - EXTERNAL	ASSIST/REVIEW CONSULTANTS WORK	PLANS COMPLETED AND IMPLEMENTED	COMPLETED-AWAITING IMPLEMENTATION	CURRENTLY UNDERWAY	ONGOING - CONTINUED INVOLVEMENT
KIMBERLEY <i>Drysdale River N.P. entirely signed</i>	Geikie Gorge N.P. redevelopment programme		●		●						●			
	Mirima N.P. - Hidden Valley carpark, walk trail and information		●		●					●				
	Windjana - Tunnel Creek N.P. redevelopment programme		●		●					●				
	Wolfe Creek Crater N.P. - parking, signposting and visitor information		●		●					●				
	Bungle Bungle N.P. - draft management plan / road / park HQ. 2 campsites	●	●			●						●		
PILBARA	Millstream N.P. - headquarters and visitors centre redevelopment		●		●						●			
	Millstream N.P. - camping development		●											●
GASCOYNE	Shark Bay - Monkey Mia visitor centre redevelopment		●		●				●		●			
	Shark Bay - Hamelin Pool caravan park and interpretative trail		●		●				●			●		

RECREATION & LANDSCAPE BRANCH: CURRENT & COMPLETED  
PROJECTS (MARCH, 1988)

REGION	PROJECT	DESCRIPTION									STATUS			
		BROADSCALE RECREATION PLANNING	RECREATION SITE PLANNING/DESIGN	PREPARATION OF GUIDELINES/STANDARDS	VISITOR INFORMATION/INTERPRETATION	LANDSCAPE ASSESSMENT	LANDSCAPE PLANNING/DESIGN	TRAINING - INTERNAL	TRAINING - EXTERNAL	ASSIST/REVIEW CONSULTANTS WORK	PLANS COMPLETED AND IMPLEMENTED	COMPLETED-AWAITING IMPLEMENTATION	CURRENTLY UNDERWAY	ONGOING - CONTINUED INVOLVEMENT
GASCOYNE (Cont.)	Shark Bay - Steep Point house site evaluation					●					●			
Ningaloo  Sandy Bay Oyster Bay Yandee Creek  Pilgrimage Oyster Stacks  Hauling Head Ross Graham Z Bend The Loop Red Bluff  Fort Atterley	Cape Range N.P. - visitor centre/park headquarters project				●	●	●				●			
	Cape Range N.P. - Milyering visitor centre landscape plan						●					●		
	Cape Range N.P. - Mangrove Bay development		●		●					●				
	Cape Range N.P. - coastal camping and day use areas	●	●		●							●		
	Cape Range - Ningaloo Marine Park - recreation plan	●	●		●							●		
	Kalbarri N.P. - coastal gorges development programme (Natural Bridge, Shellhouse and Eagle Gorge) and coastal walk	●	●		●							●		
	Kalbarri N.P. - Murchison Gorge re-development programme (Z Bend, The Loop and Loop Lookout) and walk tracks		●		●							●		



RECREATION & LANDSCAPE BRANCH: CURRENT & COMPLETED  
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GOLDFIELDS (Cont.)	Burra Rock Flora and Fauna Reserve - recreation development and visitor information		●		●							●		
	Rowles Lagoon N.R. - recreation development and visitor information		●		●							●		
WHEATBELT  <i>Lake Pollilup N.R. Lake Dumbleyung</i>	Dunn's Rock N.R. - advice to Region on site redevelopment		●		●						●			
	Boyagin Rock N.R. - recreation development and visitor information		●		●									●
	Dryandra - interpretation centre development						●			●				
SOUTH COAST  <i>Manquep Springs</i>	Stirling Range N.P. - Bluff Knoll Junction Picnic Area (Cadet training project) / <i>walk track at summit</i>		●		●			●		●				
	Porongorups N.P. - Tree-in-the-Rock site redevelopment		●		●						●			

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SOUTH COAST (Cont.)  <i>Salmon Holes Cable Beach Natural Bridge</i>	Torndirrup N.P. - Sharp Point (Cadet Training project)		●		●			●			●				
	Two People's Bay N.R. - zoning and access proposals for draft management plan	●									●				
	Two People's Bay N.R. - main facilities area and Little Beach site redevelopment		●		●							●			
	Fitzgerald River N.P. - Point Ann and Mylies site redevelopment		●		●						●				
	Fitzgerald River N.P. - assist in preparation of draft management plan	●				●						●			
	Cape Arid N.P. - Poison Creek and Seal Creek rehabilitation programme		●		●							●			
	Cape Arid N.P. - Seal Creek campground development		●		●							●			
	Cape Arid N.P. - assessment of alternative house sites <i>William Bay N.P. - stairs/campsite</i>						●					●			

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SOUTH COAST (Cont.)	West Cape Howe N.P. - assessment of proposed limestone quarry					●					●			
METROPOLITAN  <i>Wartulda Bay N.P. Obsev. point Marmion M.P. Dune Trail</i>	Herdsman Lake - assisted Regional staff with the design of interpretive trail & boardwalk			●			●				●			
	Casaurina Prison - development of adjoining nature interpretation facilities		●		●						●			
	Penguin Island - preparation of signposting specifications <i>Toilets/rectev.</i>			●							●			
	Marmion Marine Park - assessment of alternative headquarter sites						●				●			
	Marmion Marine Park - preparation of signposting specifications and new marine symbol signs			●							●			
	Star Swamp - design of walk track system and visitor interpretation programme		●		●						●			
	Forrestdale Lake Nature Reserve - advise on visitor management, draft management plan	●									●			

*Atwood Cove N.P. - Bicycle trail / fencing*



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NORTHERN FOREST	Yanchep N.P. - review of draft management plan proposals								●		●			
	Yanchep N.P. - assessment of walking track options		●		●								●	
	Cowalla Bridge Reserve - assessment of System Six proposal		●		●						●			
	Neerabup N.P. - rehabilitation and visitor management programme	●	●		●	●							●	
	Gnangara Liquid Waste Disposal Area - rehabilitation programme						●				●			
	Pinjar Trail/Trail Bike area - design concept and signposting specifications		●	●	●					●				
	Walyunga N.P. - recreation redevelopment programme	●	●	●	●	●	●					●		
	John Forrest N.P. - review of draft master plan proposals								●		●			
	Fred Jacoby Park - recreation redevelopment programme		●	●	●		●					●		



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CENTRAL FOREST  <i>Predgate Contos Springs</i>  <i>Leeuwin Peninsula Camping &amp; day use areas</i>	Stockton Open Cut - camping area development		●		●							●		
	Golden Valley Tree Park - landscape and planting plans						●			●				
	Blackwood Valley - assessment of Pine planting proposals (Brockman's)					●	●				●			
	Leeuwin-Naturaliste N.P. - assist in preparation of draft management plan	●				●					●			
	Leeuwin-Naturaliste N.P. - Hamelin Bay campground redevelopment		●		●						●			
	Leeuwin-Naturaliste N.P. - Contos Field Camping Area		●		●						●			
	Leeuwin-Naturaliste N.P. - Waterwheel redevelopment		●		●						●			
	Leeuwin-Naturaliste N.P. - Ellensbrook Historic site		●		●		●							●
	Augusta Whale Rescue Memorial - site redevelopment & interpretation project					●	●				●			

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CENTRAL FOREST (Cont.)	Cape to Cape Walk Track - project review	●	●	●	●	●						●		
	Bibbulmun Track - realignment of existing track and construction of backpack campsites	●	●	●	●	●						●		
SOUTHERN FOREST  <i>Wentworth N.P.</i> <i>Salmon Beach</i> <i>Lake Jasper</i> <i>Black Point</i>  <i>Warren N.P.</i> <i>Buenavista Tree</i>  <i>Few Acres</i> <i>Gloucester tree</i>	Visual Resource Management System - formulation, testing and implementation of procedures for assessing and mapping visual resources; development of management guidelines			●		●	●	●				●		
	Computer-based mapping of visual resource values - pilot project					●			●		●			
	Big Brook Reservoir - review of design concepts and preparation of toilet block plans/specifications		●	●							●			
	One Tree Bridge - redevelopment programme		●		●				●	●				
	Perup Field Study centre - design of study centre layout						●				●			

*MT. Franklin N.P. - sign post*

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	<i>S.F. Guyana and Shannon N.P. - Fernhill Falls Walpole N.M. - Sevin bridge</i>													
SOUTHERN FOREST (Cont.)	Shannon-D'Entrecasteaux N.P. - assist in preparation of draft management plan	●	●		●							●		
	Bibbulmun Track - extension of existing track to Walpole and construction of backpack campsites	●	●	●	●	●							●	
STATE WIDE	Recreation planning and management workshops - introductory and advanced								●					●
	Visitor Data Collection - design and implementation of programme for collect- ing and processing information on the recreational use of Departmental lands			●					●					●
	Signs Manual - revision of existing sign standards and specifications			●					●		●			
	Recreation Operations Manual - revision of existing guidelines			●					●			●		
	Expedition Skills Course - training programme for expedition leaders								●	●			●	

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STATE WIDE (Cont.)	Go Bush Programme - development and implementation of park and forest based visitor activities/interpretation programmes (jointly run by CALM and volunteers)			●				●	●			●			