LIBRARY

Department of Biodiversity,
Conservation and Attractions

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GETTING BushED WITH CALM

A Directory of Educational Resources of the Department of Conservation and Land Management

PRINTED ON RECYCLED PAPER



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SOUTHERN FOREST

Regional and District Office

Brain Street MANJIMUP 6258 Phone (097) 71 1988 Fax 71 2855

District Offices

Kennedy Street PEMBERTON 6260 Phone (097) 76 1107 Fax 76 1410

South Western Highway WALPOLE 6398 Phone (098) 40 1027 Fax 40 1251

WHEATBELT

Regional and District Office

Hough Street PO Box 100 NARROGIN 6312 Phone (098) 81 1113 Fax 81 1645

District Offices

56 Clive Street PO Box 811 KATANNING 6317 Phone (098) 21 1296 Fax 21 2633

104C Barrack Street PO Box 332 MERREDIN 6415 Phone (090) 42 1488 Fax 41 2454



Department of Conservation and Land Management WA

SCHOOL AND GROUP REQUESTS

Thank you for your enquiry about

an excursion to this area a talk to your group

We want to help your group gain the maximum benefit from the experience. To do this, we need to know your plans and objectives well in advance.

So, could you please complete this form and return it to us soon?

	we need at least 4 weeks notice.	
NAME OF GROUP/SCHOOL		
CONTACT PERSON		
ADDRESS		
POST CODE	POST CODE	
TELEPHONE NO		
DATE(S) OF PROPOSED VISIT(S)		
TIMES		
AGE/LEVEL		
NO. OF PARTICIPANTS		
SUBJECT AREA(S)		

Where applicable please answer the following:
Learning objective(s) (i.e. what do you want your students to be able to do at the end of the session?)
What pre-visit activities have you planned?
What follow-up activities have you planned?
How would you like us to help?
After this form has been returned we will confirm further details
by phone or letter. Thanks for your help - we hope your excursion will be enjoyable and educational.

PLEASE RETURN THIS FORM TO:

Community Education Officer

Department of Conservation and Land Management
P O Box 104
COMO W A 6152

CALM encourages groups to seek field experiences to enrich the learning program.

Our message is: Get BushED for your best educational experiences.



CALM AND COMMUNITY EDUCATION

THE Department of Conservation and Land Management (CALM) through its Community Education and Interpretation programs fosters awareness, appreciation and understanding of the natural environment. CALM encourages attitudes and behaviour compatible with conservation of wildlife and the management of forests, parks and reserves.

CALM applies a number of strategies towards achieving these objectives of community education. These include provision of training programs for teachers, group leaders and CALM staff; activities programs (summer holiday park activities; and others on request); facilities (such as field study centres, visitor centres, display shelters, and interpretive trails); talks, workshops and seminars; liaison with Government and non-government organisations; and a wide range of publications.



CALM TRAINING PROGRAMS FOR TEACHERS GROUP LEADERS AND CALM STAFF

Earth Education Workshops

Earth Education Workshops introduce natural awareness exercises, concept-building activities, interpretive techniques, and value-building experiences. They are designed to help educators and group leaders use Earth Education in their own programs.

CONTACT:

Community Education Officer:

(09) 367 0333

Outback Safety And Bushcraft Courses

Practical preparation for safe and enjoyable minimal impact trips to the bush.

CONTACT:

CALM

(09) 367 0333

Environmental Education Workshops

As requested.

CONTACT:

Community Education Officer

(09) 367 0333

Details on training courses are included in the Education Circular issued monthly by the Ministry of Education.

Expedition Skills and Leadership Courses

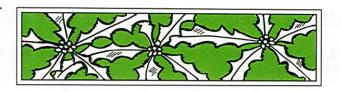
CALM staff assist in the preparation and conducting of these courses for group leaders in outdoor skills.

CONTACT:

Ministry of Sport and Recreation

Outdoor Recreation Branch

(09) 387 9700



ACTIVITIES PROGRAMS

A range of activities planned to coincide with seasonal programs and special events are provided by CALM and in collaboration with others.

Holiday programs

•	Yanchep National Park [school holidays]	Ph 561 1004
•	Leeuwin-Naturaliste National Park [summer]	Ph (097) 52 1255
•	Walpole-Nornalup National Park [summer]	Ph (098) 40 1027
	Shannon-D'Entrecasteaux National Park	

[easter and summer] Ph (097) 71 1367

The Hills Forest Go-Bush Activities MundaringPh 295 1955

Special Events

Contact CALM offices for information (see directory)

Seniors Week [spring]

Sea Week [autumn each year]

• World Environment Day [June 5]

• Arbor Day [on Friday of the first week in June each year]

University Extension Programs

Ph 380 2433

- Perup forest ecology course
- others as advertised

Other Programs

Bold Park (City of Perth)
 Ph 265 3341

Whiteman Park (Dept of Planning & Urban Development)

Ph 249 2446

Royal Australian Ornithologist Union Programs (Broome, Eyre)
 Ph 364 6202



FIELD STUDY CENTRES AND CALM

CALM provides a number of centres from which environmental studies can be conducted. Each centre offers ready access to an environment that encourages students to consider management issues such as:

- conservation
- recreation
- · resource management and use e.g. timber,
- fire protection
- · pest, weed and disease control e.g. dieback
- catchment water quality
- extractive industries e.g. bauxite mining and mine rehabilitation

Details concerning facilities and equipment provided, booking procedure and suitable programs are available from the CONTACT PERSON indicated.

♦ JARRAHDALE FIELD STUDY CENTRE

50 kms SE of Perth

Situated in a timber-mill township, the centre offers dormitory accommodation and access to good study sites in the jarrah forest and mining areas.

CONTACT:

Ministry of Education, Armadale District

Office (09) 399 0666

♦ MUNDARING FIELD STUDY CENTRE

40 kms E of Perth

This original forester's cottage is available as a day use centre with the option of overnight camping. Walking access to study sites in jarrah forest and the Mundaring Dam Catchment.

Administered by Belmont Senior High School YEO and AUS coordinators

CONTACT:

(For Bookings) CALM Mundaring

(09) 295 1955

◆ICY CREEK BUSH CAMP

115 kms S of Perth, 12 kms S of Dwellingup

A secluded site on Icy Creek, a tributary of Nanga Brook. Camping facilities and study sites along the Murray River and in jarrah forest within the Lane Poole Reserve. A resource centre is available.

CONTACT:

Youth Education Officer Morley

Senior High School

(09) 276 5766

◆ DRYANDRA FIELD STUDY CENTRE

140 kms SE of Perth, 26 kms NW of Narrogin

Ample dormitory and cottage accommodation in a wandoo woodland setting.

CONTACT:

Lions Dryandra Forest Village

(098) 83 6020 or (098) 84 5231

DONNELLY RIVER FIELD STUDY CENTRE

294 kms S of Perth, 15 kms from Bridgetown

Former timber mill workers cottages in a karri forest setting. Walks and safe swimming opportunities. Classroom available.

CONTACT:

Donnelly Forest Centre Village

(09) 383 2094 or (097) 72 1292

◆ PERUP FIELD STUDY CENTRE

300 kms S of Perth, 50 kms E of Manjimup

Suitable for small groups wishing to study forest animals and their management within karri, jarrah, and wandoo communities. An active research area. Group leaders must have attended a CALM Perup Forest Ecology Course (offered through University Extension)

CONTACT:

CALM

(097) 71 1988

+ TWERTUP FIELD STUDY CENTRE

Fitzgerald River National Park, 520 kms SE of Perth, 150 kms E of Albany

Limited camping accommodation in heathland of Fitzgerald River National Park. Water restrictions apply.

CONTACT:

Fitzgerald River National Park Association

(098) 35 5043

◆ BROOME BIRD OBSERVATORY

(ROYAL AUSTRALIAN ORNITHOLOGIST UNION - RAOU)

18 kms E of Broome

Cabin accommodation for small groups only, in pindan vegetation behind dunes, mudflats and mangroves of Roebuck Bay. Resident RAOU leader.

CONTACT:

RAOU Broome (091) 93 5600

◆ EYRE BIRD OBSERVATORY (RAOU)

500 kms E of Norseman 300 km W of Eucla. Accommodation for up to 16 people in mallee woodland setting 1 km from the beach. Resident RAOU leader.

CONTACT RAOU Eyre (090) 39 3450

The many other centres that can facilitate environmental education are included in the booklet: "Recreational Campsite Directory 1988/89" published by the Camping and Outdoor Education Association of Western Australia.

Contact Outdoor Education and Camp Schools Officer, Ministry of Education (09) 420 4111.



CALM INTERPRETATION FACILITIES

CALM is progressively establishing interpretive displays, signs and trails in national parks, marine parks, nature reserves and state forests. They are designed to assist understanding and encourage direct experience of the environment, and can be used as a teaching aid.

Visitor centres are established at Milyering (Cape Range National Park Exmouth), Penguin Island, Manjimup Timber Park, Millstream Homestead, Northcliffe and Walpole. CALM offices also provide displays.

Display shelters are found in most major national parks and forest recreation areas. Interpretive trails are being established in each major ecosystem and include walk, drive, boat and dive trails. Enquire at regional offices for specific details.

CALM Educational Resources

CALM	ECOLOGY				MANAGEMENT				
RESOURCE	Sth Wst Forests	Rain Forest	Semi- Arid	Marine	Wet Land	Wild Life	Endan- gered Species	NatPks and Reserves	Forest Prod- uction
Resource Notes	•		•	•	•	•	•	•	
Resource Directories	•			•					
Information Sheets/Notes	•		•		•	•			•
Exploring Series	•		•		♦	•			,
Explorer Series	•		*		•	•			
Discovering Series	•		•			•			•
Wildlife Series	•	♦		•		•	•		
Posters	•		•	•	•	•	•	•	•
Landscope	•	•	•	•	♦	•	•	•	•
Video/Film	•		•	•	•	•	•	•	•



CALM EDUCATIONAL RESOURCES

A range of materials are available and you are invited to visit CALM offices to view them.

Resource Notes:

21 Notes providing information for students and teachers on the ecology, conservation and management of the natural resources of Western Australia.

Resource Directories:

2 comprehensive lists of CALM resources by topic and include publications, audiovisual materials, facilities and services (Marine, Trees)

Information Sheets:

10 notes covering a range of topics of interest to the general public and land managers.

Exploring Series:

2 booklets that investigate the ecology of natural environments of Western Australia. Suitable for upper primary students and older. (Granite Outcrops Coastal Wetlands) Explorer Series:

3 story booklets for primary children with activities that focus on ecological concepts essential to our wildlife's survival. (Forest Explorer, Wetland

Explorer, Granite Explorer)

Discovery Series:

direct learning experiences written around walk trails that explore our interrelationships with the natural environment. (Sanford Rock, Mundaring

Forest)

Wildlife Series:

plants and animals found in W A and their relationship with their environment

and ourselves.

Posters:

(saleable item) on wildlife (3), forest lands, granite outcrops, bush corridors, minimal impact bushwalking, and greening your neighbourhood. Also Geikie Gorge and Shannon-D'Entrecasteaux National

Parks.

Landscope:

(saleable item) 4 issues per year, featuring articles on WA's conservation lands and wildlife. A useful library

acquisition.

Videos and films for loan: Covering a range of topics from a variety of sources: wildlife, conservation, forest management, national parks, marine parks, wilderness, minimal impact bushwalking.

This information is current as of June 1990.

Resource Notes

- No. 1 Marsupials in the Forests of South-West W.A.
- No. 2 Birds you are likely to see or hear in the Jarrah Forest of W.A.
- No. 3 Some Frogs in the South-West of W.A.
- No. 4 Snakes and Lizards of W.A.'s South-Western forests.
- No. 5 Red-capped Parrots, Marri and Apple Orchards adaptation and pre-adaptation.
- No. 6 The Tammar Wallaby and Fire.
- No. 7 Effect of Fire on reptiles of arid and semi-arid areas.
- No. 8 Seabird Islands.
- No. 9 The Noisy Scrub-bird.
- No. 10 The Reasons for Rarity.
- No. 11 What is Dieback.
- No. 12 Controlling Dieback in W.A.'s National Parks and Forests.
- No. 13 Western Swamp Tortoise.
- No. 14 Parallel Adaptations Numbat and Echidna.
- No. 15 Seed Dispersal in Macrozamia.
- No. 16 Prescribed Burns: Fighting fire with fire.
- No. 17 Some Trees of the Jarrah Forest.
- No. 18 The Geology of the Jarrah forest.
- No. 19 Possums, Habitat Trees and Fire.
- No. 20 Genetic Diversity and Conservation of the Grass Wattle.
- No. 21 Eucalypts of Perth: Field Key.

Information Sheets

- No. 1-87 Natural Regeneration of Bush Areas in W.A.
- No. 2-87 Pine Trees for Timber under W.A. Conditions.
- No. 3-87 Tree Planters Guide.
- No. 4-87 Mistletoe in South-Western Australia Identification.
- No. 5-87 Native Seed Collection and Storage.
- No. 6-87 Caring for Waterbirds with Algae Poisoning or Botulism.
- No. 1-88 Trees and Tall Shrubs of Perth.
- No. 2-88 Broadscale Direct Seeding of Trees on Farms.
- No. 1-89 Plants Resistant to Dieback.
- No. 2-89 Protecting our Flora a Guide to the Legislation and Licencing



GUIDELINES FOR FIELD EXCURSIONS

Like any group activity, field excursions to national parks, state forests, marine parks or nature reserves need planning.

Given plenty of lead time and a clear statement of learning objectives, CALM may be able to assist. This can be in the form of advice on best study sites, provision of maps and background information, suggestions on suitable study topics, and possibly input into your field excursion. Remember: our field officers have many competing duties, some of which may override even the best plans e.g. fire emergencies. We ask you to establish contact with the nearest District Manager, then send in the completed form titled: "School and Group Requests" in this booklet.

Here are some hints to plan your excursion to make it a more rewarding and enjoyable experience.

BEFORE

Start planning at least four weeks before your excursion by:

- Contacting your local CALM office to find out which sites meet your needs
- Obtaining the appropriate brochures, maps and background information.

- ♦ Booking camping areas and field study centres
- Organising CALM officers to be involved in your activities or to give talks
- Checking on walk trails.
- ♦ Designing worksheets that encourage observation and participation. Discuss them with CALM officers.
- Planing a series of lessons leading up to the excursion so students understand what a national park, marine park, state forest or nature reserve classification represents.
- Giving your students a 'things to bring' list to suit the conditions to be experienced and to ensure their safety and comfort.
- ♦ Attending any in-service training on field-based studies provided by the Ministry of Education and CALM.

DURING

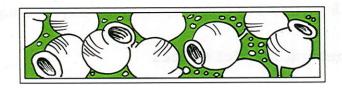
- Conduct activities that highlight an area's significance and the importance to leave the site as you would like to find it.
- As many sites are fragile, organise small groups that will make less of an impact and to gain a more rewarding experience.
- ◆ Aim for personal experiences with the natural environment which will provide enjoyment, understanding and care for the environment.
- Inform CALM officers of your itinerary and always consider emergency procedures.

- Enjoy the experience and knowledge of CALM officers.
- ♦ Be aware of other people using the site and respect their privacy.

AFTER

- ♦ Reinforce your students' field experiences with activities in the classroom.
- ♦ Design activities that develop an ability to live in an environmentally conscious way.
- ◆ Consider a return visit or select another excursion site for comparison.

Contact your local CALM office or Community Education Officer on (09) 367 0333 for further information on educational visits.



REQUESTING CALM ASSISTANCE

- ♦ CALL PERSONALLY to collect resources (Front Counter): 50 Hayman Road, Como
- ♦ PHONE FRONT COUNTER to request a mail-out: (09) 367 0481 or (09) 367 0437
- For VIDEOS AND FILMS phone (09) 367 0333
- ◆ For FURTHER ENQUIRIES phone Community Education Officer (09) 367 0333
- ★ TALKS OR FIELD EXCURSIONS: submit 'School and Group Requests' form.



Department of Conservation and Land Management

Regional and District Offices

The Department of Conservation and Land Management directly manages National Parks and Marine Parks, State Forests and Timber Reserves and Marine Nature Reserves, and any associated wildlife and forest produce. It is also responsible for conserving wildlife throughout the State.

The Department manages public lands on behalf of the people of WA, and is committed to the principle of public participation.

It is therefore in the Department's interest that the public have a greater awareness and understanding of nature conservation and management issues.

For further information please contact your nearest District Office.

POLICY DIRECTORATE

Hackett Drive CRAWLEY 6009 Phone (09) 386 8811 Fax 386 1578

OPERATIONAL HEADQUARTERS

50 Hayman Road PO Box 104 COMO 6152 Phone (09) 367 0333 Fax 367 0466



KIMBERLEY

Regional Office

Messmate Wav PO Box 942 KUNUNURRA 6743 Phone (091) 68 2000

Fax 68 2179

District Office

Herbert Street PO Box 65 **BROOME 6725** Phone (091) 92 1036 Fax 93 5027

PILBARA

Regional Office

SGIO Building Welcome Road PO Box 835 KARRATHA 6714 Phone (091) 86 8288 Fax 44 1118

GREENOUGH / GASCOYNE

Regional Office

7th Floor Town Towers PO Box 72 GERALDTON 6530 Phone (099) 21 5955 Fax 21 5713

Local office

Small Boat Harbour Fisherman's Wharf PO Box 500 CARNARVON 6701 Phone (099) 41 1801

No Fax

District Offices

Main Roads Dept Bldg PO Box 328 **MOORA 6510** Phone (096) 51 1424 Fax 51 1698

Lot 391 Thew St PO Box 201 EXMOUTH 6707 Phone (099) 49 1676 Fax 49 1580

Knight Tce **DENHAM 6537** Phone (099) 48 1208 Fax 48 1024

GOLDFIELDS

Regional Office

Hannan Street PO Box 366 KALGOORLIE 6430 Phone (090) 21 2677 Fax 21 7831

SOUTH COAST

Regional Office

44 Serpentine Road ALBANY 6330 Phone (098) 41 7133 Fax 41 7105

District Office

93 Dempster Street PO Box 234 ESPERANCE 6450 Phone (090) 71 3733 Fax 71 3657

METROPOLITAN

Regional Office

5 The Esplanade MOUNT PLEASANT 6153 Phone (09) 364 0777 Fax 364 3192

District Office

Marmion Marine Park c/- Dept of Marine and Harbours Bldg West Coast Highway HILLARYS 6025 Phone (09) 448 5705 Fax 447 8713

NORTHERN FOREST

Regional Office

3044 Albany Highway KELMSCOTT 6111 Phone (09) 390 5977 Fax 390 7059

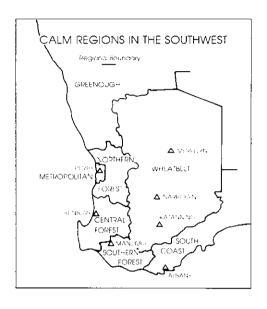
District Offices

Banksiadale Road DWELLINGUP 6213 Phone (09) 538 1001 Fax 538 1203

Mundaring Weir Road MUNDARING 6073 Phone (09) 295 1955 Fax 295 2404

George Street JARRAHDALE 6203 Phone (09) 525 5004 Fax 525 5547

5 Dundebar Road WANNEROO 6065 Phone (09) 405 1222 Fax 306 1769



CENTRAL FOREST REGION

Regional Office

North Boyanup Road PO Box 733 BUNBURY 6230 Phone (097) 25 4300 Fax 25 4351

Local Office

Bussell Highway MARGARET RIVER 6285 Phone (097) 57 2322 Fax 57 2930

District Offices

14 Queen Street BUSSELTON 6280 Phone (097) 52 1255 Fax 52 1432

147 Wittenoom Street COLLIE 6225 Phone (097) 34 1533 Fax 34 4539

64 Weir Road HARVEY 6220 Phone (097) 29 1104 Fax 29 1868

South Western Highway KIRUP 6251 Phone (097) 31 6232 Fax 31 6366

Warren Road NANNUP 6275 Phone (097) 56 1101 Fax 56 1242