

Macadamia grower's handbook

Reprint – information current in 2004



REPRINT INFORMATION – PLEASE READ!

For updated information please call 13 25 23 or visit the website www.deedi.qld.gov.au

This publication has been reprinted as a digital book without any changes to the content published in 2004. We advise readers to take particular note of the areas most likely to be out-of-date and so requiring further research:

- Chemical recommendations—check with an agronomist or Infopest www.infopest.qld.gov.au
- Financial information—costs and returns listed in this publication are out of date. Please contact an adviser or industry body to assist with identifying more current figures.
- Varieties—new varieties are likely to be available and some older varieties may no longer be recommended. Check with an agronomist, call the Business Information Centre on 13 25 23, visit our website www.deedi.qld.gov.au or contact the industry body.
- Contacts—many of the contact details may have changed and there could be several new contacts available. The industry organisation may be able to assist you to find the information or services you require.
- Organisation names—most government agencies referred to in this publication have had name changes. Contact the Business Information Centre on 13 25 23 or the industry organisation to find out the current name and contact details for these agencies.
- Additional information—many other sources of information are now available for each crop. Contact an agronomist, Business Information Centre on 13 25 23 or the industry organisation for other suggested reading.

Even with these limitations we believe this information kit provides important and valuable information for intending and existing growers.

This publication was last revised in 2004. The information is not current and the accuracy of the information cannot be guaranteed by the State of Queensland.

This information has been made available to assist users to identify issues involved in macadamia production. This information is not to be used or relied upon by users for any purpose which may expose the user or any other person to loss or damage. Users should conduct their own inquiries and rely on their own independent professional advice.

While every care has been taken in preparing this publication, the State of Queensland accepts no responsibility for decisions or actions taken as a result of any data, information, statement or advice, expressed or implied, contained in this publication.



Queensland Government



Contacts & **REFERENCES**

Want more information? This chapter helps to direct you to the other important providers and sources of macadamia information. Names are provided solely for assisting readers to make contact. Inclusion of a person or organisation does not constitute an endorsement by the Department of Primary Industries and Fisheries or the authors, nor does it endorse a particular person or organisation over others not mentioned. Lists of names are based on the best knowledge available to the authors at the time of printing and does not necessarily include all suppliers of services. The authors regret any omissions.

Contacts

- Grower organisations
- Nursery tree suppliers
- Consultants and contract services
- Processors
- Equipment manufacturers/suppliers
- Chemical and spraying information
- Organics organisations
- Government technical services

References

This is not an exhaustive list of references for macadamias. It consists of references that the authors recommend as important sources of information and reading for the macadamia grower. If you require more detailed information on a subject, use the literature search facilities available from libraries (see Library services).

- Specialist macadamia information
- Other available products of potential relevance
- Newsletters
- Library and information search services

Grower organisations

The major organisation catering for macadamia growers, processors and others involved in the industry is the Australian Macadamia Society Ltd. The Society provides a range of services including conferences, meetings, field days, seminars, information, and a regular AMS News Bulletin. As the peak macadamia industry body, it also administers funds collected from growers for research and promotion.

The Australian Macadamia Society Ltd

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Queensland

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Mobile: 0428 715 994
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Fitzroy Nurseries Pty Ltd

68 Edmestone Road
Pink Lily
ROCKHAMPTON QLD 4700
Ph: (07) 4927 2388; Fax: (07) 4922 3203
Email: fitzroynsy@bigpond.com

Glasshouse Macadamias Pty Ltd

Rod and Josh Waterworth
PO Box 389
BEERWAH QLD 4519
Ph: (07) 5496 9381; Fax: (07) 5496 9323
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Goldmac Australian Macadamias

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BUNDABERG QLD 4670
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Hidden Valley Plantations

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Macadamia Farm Management Pty Ltd

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Email: lvdoggrell@optusnet.com.au

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1 Rovera Road
GLASSHOUSE MOUNTAINS QLD 4518
Ph: (07) 5494 6284; Fax: (07) 5494 0460
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New South Wales

Daleys Fruit Tree Nursery

Daley's Lane
PO Box 154
GENEVA via KYOGLE NSW 2474
Ph: (02) 6632 1441; Fax: (02) 6632 2585
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 Andrew Olley
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Biological Crop Protection (biological soil health, soil nematode, and advisory services)
 3601 Moggill Road
 MOGGILL QLD 4070
 Ph: (07) 3202 7419; Fax: (07) 3202 8033
 Mobile: 0412 083 489
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Crop Tech Pty Ltd (pest monitoring/management services; plant nutrition management services)
 410 Langbeckers Road
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 Ph: (07) 4155 6344; Fax: (07) 4155 6656
 Email: croptech@croptech.com.au
 Web: www.croptech.com.au

Clifton Park Turf Supplies (suppliers of sweet smother grass)
 283 Wendt Road
 CHAMBERS FLAT QLD 4133
 Ph: (07) 5546 8899

Dr Henry Drew (pest monitoring/management; spray calibration; R&D services; communication services)
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Grow Help Australia (disease diagnosis, pest identification, plant pathogen testing)
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 PO Box 327
 CLEVELAND QLD 4163
 Ph: (07) 3824 9526; Fax: (07) 3286 3094
 Email: growhelp@dpi.qld.gov.au

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 KALLANGUR QLD 4503
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 Email: Hortech@ats.com.au OR
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Horticultural Crop Monitoring (pest monitoring and management; nutrition and irrigation monitoring and management)

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 MUNDUBBERA QLD 4626
 Ph: (07) 4165 4663; Fax: (07) 4165 4626
 Email: sales@bugsforbugs.com.au
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 42 Baldwin Crescent
 BUNDABERG QLD 4670
 Ph: (07) 4152 3432; Fax: (07) 4151 0011
 Email: lvdoggrell@optusnet.com.au

Smerdon Enterprises Pty Ltd (contract pruning services)

Kerry Smerdon
 2295 Old Gympie Road
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Ross Thompson and Tim Salmon (orchard management services; agronomic advice; orchard assessment)

Australian Macadamia Management
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 or 0407 135 980 (Tim)
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Steve Blackmore (real estate, professional services for sale or purchase of macadamia orchards)

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Lowlands Lawn Turf (suppliers of sweet smother grass)

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Processors

Queensland

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Stahmann Farms Inc

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Suncoast Gold Macadamias (Australia) Ltd

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New South Wales

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MIA – Macadamia Industries Australia

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 Web: www.maca.com.au

MPC – Macadamia Processing Co Limited

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Nambucca MacNuts

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Victoria**Patons Pty Ltd**

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Western Australia**Macnuts WA**

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 Email: info@macnutswa.com.au
 Web: www.macnutswa.com.au

Equipment manufacturers/suppliers**Queensland****Admac Machinery** (dehusking equipment)

42 Baldwin Crescent
 BUNDABERG QLD 4670
 Ph: (07) 4151 5576; (07) 4151 9150
 (07) 4152 3432

Heat and Control Pty Ltd (food processing/
packaging equipment)

407 Creek Road
 MT GRAVATT QLD 4122
 Ph: (07) 3877 6333; Fax: (07) 3343 8371
 Email: info@heatandcontrol.com.au
 Web: www.heatandcontrol.com

R J and J M Hooper (general farm equipment)

PO Box 100
 1 Balmoral Road
 MONTVILLE Q 4560
 Ph: (07) 5442 9202; Fax: (07) 5442 9233
 Email: info@hooperengineering.com
 Web: www.hooperengineering.com

Metcraft Industries trading as **John's Engineering** (harvesting, dehusking, storage equipment, full range of processing equipment)

Blackbutt Road (PO Box 258)
 PALMWOODS QLD 4555
 Ph: (07) 5445 0844; Fax: (07) 5478 9690
 Mobile: 0403 381 506
 Email: johnseng@aceconnect.com.au
 Web: www.johnsengineering.com.au

PB Machinery Sales (tractors, harvesting/spraying machinery)

13 Pioneer Road
 YANDINA QLD 4561
 Ph: (07) 5472 8111; Fax: (07) 5446 8846
 Mobile: 0438 467 476

Silvan Australia Pty Ltd (spraying equipment)

44 Lysaght Street
 ACACIA RIDGE QLD 4110
 Ph: (07) 3345 9500; Fax: (07) 3345 9511
 Email: info@silvanaust.com
 Web: www.silvanagcess.com.au

New South Wales**Alstonville Steel** (dehusking, handling and storage equipment, repair and maintenance of plant, delivery transport)

3 Owens Crescent
 ALSTONVILLE NSW 2477
 Ph: (02) 6628 0026; Fax: (02) 6628 1926
 Email: tburnett@nor.com.au
 Web: www.alstonvillesteel.com.au

Ballina Hydraulics and Engineering (harvesting equipment)

Mark Burgmann
110 Teven Road
BALLINA NSW 2478
Ph: (02) 6686 7400; Fax: (02) 6686 7922
Email: rmburgmann@hotmail.com

David Barnsley Industrial Spares (belt services for harvesting/handling equipment)

26 Tweed Street
LISMORE NSW 2480
Ph: (02) 6622 2747; Fax: (02) 6622 5131

Doc Dorahy Tractors & Machinery (orchard floor preparation machinery/harvesting equipment)

26 Tweed Street
LISMORE NSW 2480
Ph: (02) 6622 2842; Fax: (02) 6621 4777

Bill Farrell Fabrication Pty Ltd (dehusking/harvesting equipment)

4 Wilson Street South
SOUTH LISMORE NSW 2480
Ph: (02) 6621 8154; Fax: (02) 6622 7199

Orchard Systems (dehusking/handling equipment)

Richard Hurley
Arthur Road
CORNDALE NSW 2480
Ph/Fax: (02) 6688 2052
Email: orchsys@bigpond.com

Ongmac Trading Pty Ltd (specialised macadamia tractors/spraying equipment)

86 Conway Street
LISMORE NSW 2480
Ph: (02) 6621 5981; Fax: (02) 6621 8480
Email: ongmactsales@nor.com.au
Web: www.ongmac.com.au

Rural Buying Machinery Centre (harvesting/spraying equipment; general machinery)

145 Casino Street
LISMORE NSW 2480
Ph: (02) 6621 8837; Fax: (02) 6622 7108
Email: rbmadmin@spot.com.au
Web: www.rbmc.com.au

Victoria**IDS Consulting Services Pty Ltd** (pruning, mulching, herbicide application equipment).

Operating in Queensland and NSW
PO Box 245
BERWICK VIC 3806
Ph: (03) 9796 2968; Fax: (03) 9707 5358
Email: ian@idsconsulting.com.au
Web: www.idsconsulting.com.au
Queensland contact:
PO Box 568
BEERWAH QLD 4519
Mobile: 0428 171 479

Chemical and spraying information**AVCARE LIMITED**

National Association for Crop Protection and Animal Health
Level 2, AMP Building 1 Hobart Place
CANBERRA ACT 2601
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SMARTtrain

NSW Agriculture and TAFE

Contact your local TAFE institute or NSW
Agriculture office

Web: www.lg.tafensw.edu.au/smarttrain

Infopest – pest management system on CDROM

Department of Primary Industries & Fisheries

Animal & Plant Health Services

GPO Box 46

BRISBANE QLD 4001

Ph: (07) 3239 3967; Fax: (07) 3211 3293

Email: infopest@dpi.qld.gov.au

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Australian Pesticides and Veterinary Medicines Authority

PO Box E240

KINGSTON ACT 2604

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Web: www.apvma.gov.au

NSW Environmental Protection Authority (EPA)

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General Enquiries 131 555

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Web: www.drummuster.com.au

Organic organisations

These organisations do not have the resources to provide a general advisory service about organic production. Their main function is to provide information about certification standards and processes. Special services are also provided to members after joining. Kits containing information on membership and certification standards and processes are available for purchase.

Biological Farmers of Australia

PO Box 3404

TOOWOOMBA VILLAGE FAIR QLD 4350

Ph: (07) 4639 3299; Fax: (07) 4639 3755

E-mail: bfa@icr.com.au

National Association for Sustainable Agriculture Australia Ltd

PO Box 768

STIRLING SA 5152

Ph: (08) 8370 8455; Fax: (08) 8370 8381

Email: nasaa@dove.mpt.net.au

Bio-Dynamic Agricultural Association of Australia

c/- Post Office

POWELLTOWN VIC 3797

Ph: (03) 5966 7333; Fax: (03) 5966 4333

Organic Retailers and Growers Association of Australia

c/- The Secretary

PO Box 12852

A'Beckett Street Post Office

MELBOURNE VIC 3000

Ph: (03) 9737 9799

Email: organic@alphalink.com.au

Government technical services

Macadamia technical enquiries (commercial growers only)

Queensland

Paul O'Hare

Department of Primary Industries & Fisheries
PO Box 5083 SCMC
NAMBOUR QLD 4560
Ph: (07) 5444 9673; Fax: (07) 5441 2235
Email: paul.o'hare@dpi.qld.gov.au

Pat O'Farrell

Department of Primary Industries & Fisheries
PO Box 1054
MAREEBA QLD 4880
Ph: (07) 4048 4653; Fax: (07) 4092 3593
Email: pat.o'farrell@dpi.qld.gov.au

New South Wales

Kevin Quinlan

NSW Department of Primary Industries
Tropical Fruit Research Station
PO Box 72
ALSTONVILLE NSW 2477
Ph: (02) 6626 2400; Fax: (02) 6628 5209
Email: kevin.quinlan@agric.nsw.gov.au

Peter Newley

NSW Department of Primary Industries
PO Box 530
COFFS HARBOUR NSW 2450
Ph: (02) 6650 3111; Fax: (02) 6651 2780
Email: peter.newley@agric.nsw.gov.au

Other information sources

The Department of Primary Industries and Fisheries Call Centre provides help in accessing the range of DPI&F information products and services. The Call Centre operates from Monday to Friday, 8 a.m. to 6 p.m. on 13 25 23 for the cost of a local call (Queensland only). Callers outside Queensland can phone the Call Centre on (07) 3404 6999.

FarmBis provides training grants to primary producers for individual or group training.

Contact:

Queensland Rural Adjustment Authority (QRAA)

GPO Box 211
BRISBANE QLD 4001
Free call: 1800 623 946; Ph: (07) 3032 0100
Fax: (07) 3032 0180
Email: contact_us@qraa.qld.gov.au
Web: www.qraa.qld.gov.au

OR

NSW Rural Assistance Authority (RAA)

Locked Bag 23
ORANGE NSW 2800
Freecall: 1800 678 593; Ph: (02) 6391 3000
Fax: (02) 6391 3098
Email: farmbis@raa.nsw.gov.au
Web: www.raa.nsw.gov.au

TAFE NSW, through its Wollongbar Campus, offers specialised training in macadamia production and IPM. For information on courses and availability, contact

Alan Coates
Ph: (02) 6620 4287
Phil Harvey
Ph: (02) 6620 4291

Specialist macadamia information

The Department of Primary Industries and Fisheries (DPI&F), NSW Department of Primary Industries and the Australian Macadamia Society (AMS) have collaborated over many years to produce a wide range of specialist macadamia information products. Those currently available for individual purchase are listed below. Some are available from all three organisations; others are available only from the publishing organisation (as indicated in the list).

DPI&F Publications

Primary Industries Building
Ann Street (GPO Box 46)
BRISBANE QLD 4001
Ph: 1800 816 541 (within Australia)
or (07) 3239 3804
Fax: (07) 3239 6509
Email: books@dpi.qld.gov.au
Shop on-line at:
www.dpi.qld.gov.au/shop/

NSW Department of Primary Industries
Publication Sales Unit
Locked Bag 1
ORANGE NSW 2800
Ph: 02 6391 3433
Orders: Freecall 1800 028 374
Freefax: 1800 642 065

Australian Macadamia Society Ltd
Suite 1,113 Dawson Street
LISMORE NSW 2480
Ph: 02 6622 4933
Fax: 02 6622 4932
Email: admin@macadamias.org
Web: www.macadamias.org

Note that there is a vast range of other published macadamia reference material, which is now out of print. This includes books, pamphlets, articles in the AMS News Bulletin, and research papers. This material can be accessed through the AMS and specialist libraries listed below under Library and search services.

Macadamia problem solver & bug identifier (book), Gallagher, E., O'Hare, P., Stephenson, R., Waite, G., and Vock, N. (2003), Department of Primary Industries.

Growing macadamias in Australia (book), O'Hare, P., Loebel, R., and Skinner, R. (2003), Department of Primary Industries.

MacMan (farm recording software package), Mulo, S., O'Hare, P., Bartel, L., and Quinlan, K. (2003), Department of Primary Industries. (Enquiries in first instance to DPI&F)

Macadamia variety identifier (book), Bell, D., Bryen, L., Firth, D., Jones, K., Gallagher, E., McConachie, I., O'Hare, P., Stephenson, R., and Vock, N. (2000), Department of Primary Industries.

Macadamia sorting guide (laminated wall chart), Vock, N., Bell, D., Wilson, K., Jones, K., Gallagher, E. and Bryen, L. (2000), Department of Primary Industries.

Diseases & disorders of macadamias (book), Fitzell, R.D. (1994), NSW Agriculture.

Insect pests of macadamias in Queensland (book), Ironside, D.A. (1981), Department of Primary Industries.

Australian Macadamia Society information products (available only from AMS):

- *Australian macadamia industry code of sound orchard practices* (booklet), O'Hare, P. et al (2000), Australian Macadamia Society.
- *Approved supplier manual* (book), Ekman, J. et al (2002), Australian Macadamia Society.
- *Drying macadamia nut-in-shell on farm*, (2001), Australian Macadamia Society.
- *Macadamia promotional video/CD*, Australian Macadamia Society.
- *Macadamia crop loss protocols* (booklet), Treverrow, N. (2002), Australian Macadamia Society.

Other macadamia information products

- *Code of practice for noise management of on-farm processing of macadamia nuts* (2003), Australian Strategic Planning Pty Ltd.
- *Code of practice for the control of spray drift and use of chemicals in macadamia orchards* (2003), Australian Strategic Planning Pty Ltd.

Both codes are available from the Australian Macadamia Society.

NSW DPI Agfacts, Agnotes and information sheets (available from NSW DPI only)

- *Shade tolerant ground cover in macadamia orchards*, Reid, G. (2002)
- *Reducing erosion and other soil degradation in macadamia orchards*, Firth, D.J. (2000)
- *Sweet smothergrass—a perennial groundcover for subtropical orchards*, Firth, D.J. (2001)
- *Soil management in orchards*, Jenkins, A. (1999)
- *Profitability of macadamia growing*, Reilly, T. (1995)
- *Buying a macadamia harvester—some things to consider*, Reilly, T., Bevan, P., and Loebel, M.R. (1994)

Horticulture Australia Limited macadamia research reports

Available only from Horticulture Australia Limited, Level 1, 50 Carrington Street, SYDNEY NSW 2000; Ph: (02) 8295 2300; Fax: (02) 8295 2399; Website: www.horticulture.com.au

Other available products of potential relevance

Diseases of fruit crops (book), Persley, D.M.(ed) (1993), Department of Primary Industries.

Managing insects and mites in horticultural crops (book), Brough, E.J., Elder, R.J. and Beavis, C.H.S. (eds) (1994), Department of Primary Industries.

Pesticide application manual (2nd edn) (book), Banks, A., Broadley, R.H., Collinge, M., and Middleton, K. (1990), Department of Primary Industries.

Soil sense—soil management for NSW North Coast farmers (book), Lines Kelly, R. (1994), NSW Agriculture.

Trees for the North Coast (book), Lines Kelly, R. and Currey, A. (eds) (1994), NSW Agriculture.

Infopest—pest management information system (CD-ROM package) (2003), Department of Primary Industries.

Australian Rainman 2.2 (decision support computer package), Department of Primary Industries.

Plant nutrient disorders 2—tropical fruit and nut crops (book), Weir, R.G. & Cresswell, G.C. (1993), Inkata Press, Melbourne.

The good bug book — second edition (book), Richard Llewellyn et al, M.J. (2002), Australian Biological Control Inc.

Organic agriculture—getting started (book), Madge, D. (1995), Agmedia.

Profitable organic farming (book), Newton, J. (1995), Blackwell Science.

Organic farming (book), Burlace, M. (1995), NSW Agriculture.

Newsletters

The Australian Macadamia Society Ltd produces a bi-monthly publication *Australian Macadamia Society News Bulletin*. It is available to members only as part of the annual subscription to the Society.

Direct enquiries to:

The Australian Macadamia Society Ltd (AMS)

Suite 1, 113 Dawson Street

LISMORE NSW 2480

Ph: 02 6622 4933; Fax: 02 6622 4932

Email: admin@macadamias.org

Web: www.macadamias.org

Library and information search services

The Australian Macadamia Society Ltd maintains a large collection of macadamia-related information on its website at www.macadamias.org

AMS members have access to more detailed information via the password protected members-only web pages.

DPI&F's Central library in Brisbane and **NSW DPI's library** at Wollongbar (including information at Alstonville Research Station) provide a range of special information services of interest to growers. These include:

- access to the library's extensive book and journal collection;
- on-line public access catalogue (OPAC) terminals that provide access to the DPI&F library catalogue and to material held in the State Library of Queensland (Brisbane only);
- literature searches from CD-ROM and the Internet (fee charged).

General enquiries can be directed to:

Brisbane: Ph: (07) 3239 3126

Fax: (07) 3239 3128

Wollongbar: Ph: (02) 6626 1321