

Integrated pest management in ornamentals information kit

Reprint – information current in 2000



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 2000. We advise readers to take particular note of the areas most likely to be out-of-date and so requiring further research: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- Financial information—costs and returns listed in this publication are out of date.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 2000. 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 ornamental horticulture. 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



Directory

What can you expect to learn from this section?

Where you can obtain IPM products, technical services and information. Many businesses in Australia provide horticultural advice and equipment. This directory (March 2000) is not exhaustive, but presents a range of businesses in each State. Please advise NSW Agriculture of any omissions for inclusion in future updates (see address, Section 8 page 3).

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Nursery industry associations

National office

Nursery Industry Association of Australia (NIAA)
 PO Box 907
 EPPING NSW 2121
 Industry Development Manager: Ian Atkinson
 Ph: (02) 9876 5200; Fax: (02) 9876 6360
 E-mail: niaa@ozemail.com.au
 Web: www.niaa.org.au



Queensland

Queensland Nursery Industry Association (QNIA)
 PO Box 345
 SALISBURY QLD 4107
 Industry Development Officer: John McDonald
 Ph: (07) 3277 7900; Fax: (07) 3277 7109
 E-mail: info@qnia.asn.au
 Web: www.qnia.asn.au

New South Wales

Nursery Industry Association of New South Wales (NIAN)
 PO Box 13
 ROUSE HILL NSW 2155
 Industry Development Officer: Richard Stephens
 Ph: (02) 9679 1472; Fax: (02) 9679 1655
 E-mail: nian@ozemail.com.au
 Web: www.ozemail.com.au/~nian

Victoria

Nursery Industry Association of Victoria (NIAV)
 PO Box 431
 CAULFIELD EAST VIC 3145
 Industry Development Officers: Greg King and Allan Hollensen
 Ph: (03) 9576 0599; Fax: (03) 9576 0431
 E-mail: niav@mira.net
 Web: www.niav.com.au

Tasmania

Nursery Industry Association of Tasmania (NIAT)
 PO Box 17
 LAUNCESTON TAS 7250
 Secretary: Colin Fleming
 Ph: (03) 6398 2474; Fax: (03) 6398 2474

South Australia

Nursery & Landscape Industry Association of South Australia Inc. (NLIASA)

136 Greenhill Road

UNLEY SA 5061

Industry Development Officer: Anne Frodsham

Ph: (08) 8303 9578; Fax: (08) 8303 9424

E-mail: frodsham.anne@saugov.sa.gov.au

Western Australia

Nursery Industry Association of Western Australia (NIAWA)

Fraser Avenue, Kings Park

WEST PERTH WA 6005

Industry Development Officer: Sandy Pate

Ph: (08) 9485 1144; Fax: (08) 9485 1544

E-mail: sandy@niawa.com.au

Northern Territory

Nursery Industry Association of Northern Territory (NIANT)

PO Box 38329

WINNELLIE NT 0821

Contact: Mark Wood

Ph: (08)8983 3233; Fax: (08) 8983 3244

NT Horticultural Association

Shop 15A Coolalinga Centre

Stuart Highway

PO Box 2207

PALMERSTON NT 0831

Ph: (08) 8983 3233; Fax: (08) 8999 3244

E-mail: ntha@octa4.net.au

Hydroponic associations

Queensland

The Hydroponic Association of Queensland Inc.

PO Box 352

ASHGROVE QLD 4060

Ph: (07) 3888 3276; Fax: (07) 3888 6349

E-mail: B.Shannon@bigpond.com

New South Wales

Australian Hydroponic & Greenhouse Association Inc.

PO Box 538

NARRABEEN NSW 2101

Ph: (02) 9948 3646; Fax: (02) 9948 1300; Mobile: 0414 333 996

E-mail: aushyd@olis.net.au

Victoria

Hydroponic Farmers Federation Inc.

342 Harpers Road
 WOODEND VIC 3442
 Ph: (03) 5427 2143; Fax: (03) 5427 3843
 E-mail: hydroponicdesign@hotmail.com.au
 Web: www.hff.org.au

South Australia

Soladome Hydroponics

44 Chapel Street
 NORWOOD SA 5067
 Ph: (08) 8362 8042; Fax: (08) 8363 0503; Mobile: 0411 105 365
 E-mail: rmoseby@olis.net.au

Commercial suppliers of beneficial insects, mites and nematodes

This section lists commercially available biocontrol agents and those under development in Australia. The pests they control are in brackets.

National

Australasian Biological Control Inc.

Ph: 1800 000 160
 Web: www.goodbugs.org.au
 For general information on beneficials, commercial suppliers of beneficial insects and mites, and consultants.

Queensland

Bio-Resources

PO Box 578
 SAMFORD QLD 4520
 Ph: (07) 4632 9215; Fax: (07) 4639 6300; Mobile: 0427 969 408
 E-mail: richard@bioresources.com.au
 Web: www.bioresources.com.au
 For biological pest control advice.

Bugs for Bugs (Integrated Pest Management Pty Ltd)

Bowen Street
 MUNDUBBERA QLD 4626
 Ph: (07) 4165 4663; Fax: (07) 4165 4626
 E-mail: sales@bugsforbugs.com.au
 Web: www.bugsforbugs.com.au
 Supply *Aphytis lingnanensis* (oleander scale); *Chilocorus circumdatus* and *C. baileyi* (scale insects); *Cryptolaemus montrouzieri* (mealybugs); *Leptomastix dactylopii* (citrus mealybug); *Mallada signata* (aphids and mealybugs), *Trichogramma pretiosum* (*Helicoverpa* [*Heliothis*], loopers, lightbrown apple moth); *T. carvarae* (lightbrown apple moth).



Know your biocontrol agents
 Section 7

Horticultural Crop Monitoring

PO Box 3725

CALOUNDRA DC QLD 4551

Ph/Fax: (07) 5491 4662; Mobile: 0412 714 905, 0416 114 905

E-mail: pjones@hotkey.net.au or zeki@bigpond.com

Supply *Phytoseiulus persimilis* (two-spotted mite, bean spider mite).

New South Wales**Beneficial Bugs Company**

PO Box 436

RICHMOND NSW 2753

Ph: (02) 4570 1331; Fax: (02) 4578 3979; Mobile: 0414 789 125

E-mail: aryland@ozemail.com.au

Supply *Phytoseiulus persimilis* (two-spotted mite, bean spider mite).

Biocontrol agents under development: Ozzie 1, Ozzie 2 (thrips, broad mite).

Ecogrow

Unit 12, 5–11 Hollywood Avenue

BONDI JUNCTION NSW 2022

Ph: (02) 9389 0888, Fax: (02) 9389 2244

E-mail: info@ecogrow.com.au

Web: www.ecogrow.com.au

Supply *Heterorhabditis bacteriophora* (black vine weevil); *Heterorhabditis zealandica* (black vine weevil, garden weevils and scarab beetles); *Steinernema carpocapsae* (cutworms, *Helicoverpa* and *Spodoptera*); *Steinernema feltiae* (fungus gnats).

Victoria**Bio-Protection Pty Ltd**

140 McDougalls Road

PO Box 384

KILMORE VIC 3764

Ph: (03) 5781 0033; Fax (03) 5781 0044

E-mail: rcoy@hyperlink.com.au

Supply *Phytoseiulus persimilis* (two-spotted mite, bean spider mite); diagnostic service (identify insect pests on sticky traps).

Biocontrol agents under development: *Aphidius colemani* (cowpea aphid, green peach aphid); *Harmonia transversalis* (aphids, scales, two-spotted mite, generalist); *Stethorus* sp. (two-spotted mite).

Greennem

PO Box 240

MONBULK VIC 3793

Mobile: 0409 415 872

E-mail: greennem@netlink.com.au

Web: www.greennem.com.au

Supply *Stratiolaelaps (Hypoaspis) miles* (fungus gnat, thrips pupae).

South Australia

Biological Services

PO Box 501

LOXTON SA 5333

Ph: (08) 8584 6977; Fax: (08) 8584 5057

E-mail: fruitdrs@sa.ozland.net.au

Supply biocontrol agents *Aphytis melinus* (oleander scale); *Encarsia formosa* (whiteflies); *Stratiolaelaps (Hypoaspis) miles* (fungus gnat, thrips pupae); *Typhlodromus occidentalis* (two-spotted mite).

Biocontrol agents under development: *Metaphycus bartletti* (black scale); *Metaphycus luteolus* (soft brown scale).

Suppliers of monitoring tools: sticky traps, hand lenses, headband magnifiers, microscopes

Queensland

Bugs for Bugs

Bowen Street

MUNDUBBERA QLD 4626

Ph: (07) 4165 4663; Fax: (07) 4165 4626

E-mail: sales@bugsforbugs.com.au

Web: www.bugsforbugs.com.au

Supply hand lenses, yellow and blue sticky traps, yellow ribbon trap (15 cm x 30 m roll).

New South Wales

Australian Entomological Supplies

592 Coolamon Scenic Drive

COORABELL NSW 2479

PO Box 250

BANGALOW NSW 2479

Ph: (02) 6684 7650; Fax: (02) 6684 7188

Web: www.nor.com.au/business/austent

E-mail: austento@nor.com.au

Supply hand lenses, head-band magnifiers, yellow sticky traps, microscopes, Tanglefoot® and other adhesive substances for insect trapping.

Hastings Dataloggers

1/8–12 Acacia Avenue

PORT MACQUARIE NSW 2444

Ph: (02) 6581 3900; Fax: (02) 6581 3988

Web: www.hdl.com.au

E-mail: sales@hdl.com.au

Supply temperature, humidity, soil moisture and transit dataloggers (TinyTag®, TinyView®).

Victoria

Australian Instrument Services Pty Ltd

2/21 Stud Road

BAYSWATER VIC 3153

PO Box 2, CROYDON VIC 3136

Freecall: 1800 625 008; Ph: (03) 9729 9399; Fax: (03) 9720 5776

E-mail: john@ausinst.com.au or sales@ausinst.com.au

Web: www.ausinst.com.au

Supply dissecting microscopes, dataloggers, balances, light industrial scales, thermometers and enclosures.

Bio-Protection Pty Ltd

140 McDougalls Road

PO Box 384, KILMORE VIC 3764

Ph: (03) 5781 0033; Fax (03) 5781 0044

E-mail: rcoy@hyperlink.com.au

Supply yellow and blue sticky traps.

Crop Health Services

Private Bag 15

SOUTH EASTERN MAIL CENTRE VIC 3176

Ph: (03) 9210 9356; Fax: (03) 9800 3521

Web: www.nre.vic.gov.au/crop health services

Supply sticky traps and hand lenses.

Yarra Valley Crop Care

1/7 George Street

WANDIN VIC 3139

Ph: (03) 5964 3566; Fax: (03) 5964 2045; Mobile: 0419 332 378

Supply sticky traps.

Tasmania

Horticultural Suppliers (Hobart)

Rear 41 Lampton Avenue

DERWENT PARK TAS 7009

Ph: (03) 6273 0436; Fax: (03) 6273 0631

Supply yellow and blue sticky traps.

Serve-Ag Pty Ltd

PO Box 690

DEVONPORT TAS 7310

Ph: (03) 6427 0800; Fax: (03) 6427 0801

E-mail: info@serve-ag.com.au

Web: www.serv-ag.com.au

Supply yellow sticky traps.

South Australia

Biological Services

PO Box 501

LOXTON SA 5333

Ph: (08) 8584 6977; Fax: (08) 8584 5057

E-mail: fruitdrs@sa.ozland.net.au

Supply yellow sticky traps (three sizes), hand lenses (x10) and pheromone disruption control for lightbrown apple moth.

Di Manno Grower Supplies SA Pty Ltd

Diagonal Road

POARAKA SA 5095

Ph: (08) 8349 6560; Fax: (08) 8349 8064

Supply yellow sticky traps, hand lens (x10) and pheromone disruption control for lightbrown apple moth.

Macspred Pty Ltd (previously Carr & Nelson)

PO Box 92 (Rundle Road)

KENT TOWN SA 5071

Ph: (08) 8362 4549; Fax: (08) 8362 9790

E-mail: sa@macspred.com.au

Web: www.macspred.com.au

Supply blue and yellow sticky traps.

Western Australia**Evergreen Marketing**

235a Scarborough Beach Road

MT HAWTHORN WA 6016

Ph: (08) 9242 5377; Fax: (08) 9242 5425

E-mail: evgreen@starwon.com.au

Supply yellow sticky traps and fruit fly traps.

Wesfarmers Dalgety Horticulture

10 Jackson Street

BASSENDEAN WA 6054

Ph: (08) 9273 5222; Fax: (08) 9361 9215

Web: www.wesfarmersdalgety.com.au

Supply yellow and blue sticky traps.

Pest and disease diagnostic services, other analytical services

Queensland**Biological Crop Protection**

3601 Moggill Road

MOGGILL QLD 4070

Ph: (07) 3202 7419; Fax: (07) 3202 8033; Mobile: 0412 083 489

E-mail: biolcrop@powerup.com.au

Plant disease and nematode testing.

Crop Health Services

Centre for Amenity and Environmental Horticulture

Queensland Horticulture Institute

Redlands Research Station

PO Box 327

CLEVELAND QLD 4163

Cnr Delancey Street and Finucane Road

Ph: (07) 3286 1488; Fax: (07) 3826 3094

Web: www.dpi.qld.gov.au

Diagnosis of pests, diseases and nutrition.

CropTech Pty Ltd

M/S 305 Langbeckers Road

BUNDABERG QLD 4670

Ph: (07) 4155 6344; Fax: (07) 4155 6656

E-mail: croptech@bigpond.com

Plant, soil and water analysis, nutrition and irrigation management advice.

Ornatec Pty Ltd

438 Old Cleveland Road

EAST BIRKDALE QLD 4159

Ph: (07) 3286 0333; Fax: (07) 3286 0300; Mobile: 0418 880 787

E-mail: birkdale@BirkdaleInternational.com

Web: www.BirkdaleInternational.com

Pest and disease diagnosis, soil analysis and nutrition, complete crop evaluation on plant nutrition, Plant Breeders Rights (PBR) consultants—submit application, trial and descriptions of varieties for registration.

New South Wales**Cresswell Horticultural Services Pty Ltd**

119 Cabbage Tree Road

GROSE VALE NSW 2753

Ph/Fax: (02) 4572 2060

E-mail: gcreww@hawknet.com.au

Plant nutrition including identification and correction of disorders, environmental management and hydroponics.

Crop & Nursery Services

PO Box 6153

KINCUMBER NSW 2251

Ph: (02) 4381 0051; Fax: (02) 4381 0071; Mobile: 0412 826 589

E-mail: cropandnursery@optusnet.com.au

Sticky trap pest identification and counts service, plant tissue culture and Plant Breeders Rights (PBR) consultants—submit application, trial and describe varieties for registration.

Hortgrow Services Pty Ltd

PO Box 3205

DURAL NSW 2158

Ph/Fax: (02) 9652 0217; Mobile: 0418 250 283

E-mail: hun&mick@seltek.com.au

Soil, plant, water, artificial-medium analysis, nutrition advice and crop management.

Insect Inquiry Service

Orange Agricultural Institute

NSW Agriculture

Forest Road

ORANGE NSW 2800

Ph: (02) 6391 3800; Fax (02) 6391 3336

Insect and mite identification.

Plant Diagnostic Service

NSW Agriculture
Elizabeth Macarthur Agricultural Institute
Woodridge Road
MENANGLE NSW 2568
PMB 8, CAMDEN NSW 2570
Ph: (02) 4640 6428; Fax: (02) 4640 6415/4640 6300
Pest and disease diagnosis, pathogen testing.

Plant Health Services

PO Box 619
ALSTONVILLE NSW 2477
Ph: (02) 6628 1122; Fax: (02) 6629 5116; Mobile: 0407 915 209
E-mail: fitzellr@nor.com.au
Plant, soil, water analysis; testing potting mix; pest, disease diagnosis and management advice.

Sydney Environmental & Soil Laboratory Pty Ltd

PO Box 357
PENNANT HILLS NSW 1715
Ph: (02) 9980 6554; Fax: (02) 9484 2427
E-mail: sesl@sesl.com.au
Plant, soil, water analysis, growing media and compost analysis and nutritional advice.

Victoria**Crop Health Services**

Agriculture Victoria
Private Bag 15
SOUTH EASTERN MAIL CENTRE VIC 3176
Ph: (03) 9210 9356; Fax: (03) 9800 3521
Web: www.nre.vic.gov.au
Pest and disease diagnostic service, WFT identification.

TS Agricultural Consultants

PO Box 107
ASCOT VALE VIC 3032
Ph: (03) 8371 0013; Fax: (03) 9375 7552
E-mail: peterat@tsac.com.au
Web: www.tsac.com.au
Pest and disease diagnosis and advice on management.

Tasmania**Agronico Pty Ltd**

175 Allport Street
LEITH TAS 7315
Ph: (03) 6428 2519; Fax: (03) 6428 2049
Mobile: 0408 140 129/0418 140 131
E-mail: agronico@trump.net.au
Pest and disease management; soil testing and nutrition; weed control; plant tissue culture; soil erosion control.

Plant Health Services

Department of Primary Industry, Water & Environment
New Town Laboratories

St Johns Avenue

NEW TOWN TAS 7008

Ph: (03) 6233 6833, 1300 368 550; Fax: (03) 6278 2716

Web: www.dpiwe.tas.gov.au

Pathogen testing, virus detection, analysis of fungi and bacteria, WFT identification.

Serve-Ag Pty Ltd

PO Box 690

DEVONPORT TAS 7310

Ph: (03) 6427 0800; Fax: (03) 6427 0801

E-mail: info@serve-ag.com.au

Plant, soil analysis and crop protection.

South Australia**Cavallaro Horticultural Services**

Lot 6 Angle Vale Road

EVANSTON GARDENS SA 5116

Mobile: 0417 839 082; Fax: (08) 8284 7500

E-mail: dpflowers@picknowl.com.au

Pest and disease diagnostic service, plant and soil nutrition.

Munn's Lawn Co. Pty Ltd

1/11 Waverley Avenue

EDWARDSTOWN SA 5037

Ph: (08) 8277 8000; Fax: (08) 8277 1444

E-mail: munns@senet.com.au

Soil and tissue analysis.

SARDI Diagnostic Centre

GPO Box 397

ADELAIDE SA 5001

Gate 2a, Roller door 2, Hartley Grove, URRBRAE SA 5064

Ph: 1800 359 092, (08) 8303 9371; Fax: (08) 8303 9333

Web: www.sardi.sa.gov.au/diagnost/diagnost.htm

Pest and disease diagnostic service, WFT identification.

Scholefield Robinson Horticultural Services Pty Ltd

14C Birdwood Street

NETHERBY SA 5062

Ph: (08) 8373 2488; Fax: (08) 8373 2442

E-mail: schorob@senet.com.au

Nutrition, tissue, soil, water analysis, pest and disease management and Plant Breeders Rights (PBR) consultants—submit application, trial and describe varieties for registration.

Western Australia

AGWEST Plant Laboratories

Agriculture Western Australia

3 Baron-Hay Court

SOUTH PERTH WA 6151

Ph: (08) 9368 3721; Fax: (08) 9474 2658

E-mail: agwestplantslabs@agric.wa.gov.au

Seed testing, plant ID, plant disease diagnosis, entomological services, consultants and inspections, WFT identification.

Plant Diagnosis Services

156 Albany Highway

BEDFORDALE WA 6112

Ph: (08) 9390 3122; Fax: (08) 9390 0046

Pest and disease diagnosis.

Northern Territory

Department of Primary Industries & Fisheries: Resource Protection

Plant Pathology/Entomology

Makagon Road

Berrimah Agricultural Research Centre

GPO Box 990

DARWIN NT 0801

Ph: (08) 8999 2311; Fax (08) 8999 2312

Pest and disease diagnosis, entomological queries, crop inspections on request, WFT identification.

Greenhouse suppliers

Queensland

Greenhouse Australia

PO Box 1629

TOOWONG QLD 4066

Ph: (07) 3279 2554; Fax: (07) 3279 2244; Mobile: 0412 540 199

E-mail: greenhouse@corplink.com.au

Suppliers of Richel greenhouses, Werra Plastice copper thermic diffused greenhouse films and Aqua-quip fogging systems.

Simple Shed Pty Ltd

64 Bridges Road

MORAYFIELD QLD 4506

Ph: (07) 5498 7766; Fax: (07) 5498 7422; Mobile: 0419 745577

E-mail: simpleshed@bigpond.com

Web: www.simpleshed.com

Design and construct polyhouses with a range of ventilation options and coverings. Supply Ginegar greenhouse film, Aluminet thermo-reflective screens, shadehouses with moveable roofs. Distributor of Shier Biofilters for disinfection of hydroponic and nursery water, Ozgen ozone generators and horticultural bug zappers.

VP Industries Pty Ltd

7 Binary Street

PO Box 6033

YATALA QLD 4207

Ph: 1800 814 618, (07) 3287 1088; Fax: (07) 3807 3675

E-mail: sales@vpindustries.com.au

Web: www.vp.industries.com.au

Manufacturers and designers of greenhouse and shade structures.

New South Wales**Advance Greenhouse & Horticultural Products**

PO Box 592

SPRINGWOOD NSW 2777

Ph/Fax: (02) 9833 2678; Mobile: 0418 250 159

Supply single and multi-span commercial greenhouses and greenhouse accessory products.

Azrom

'Pine Vale'

BINYA NSW 2665

Ph: (02) 6968 3312; Fax: (02) 6968 3313; Mobile: 0419 618 377

E-mail: azrom@geddes.com.au

Manufactures and designers of pre-fabricated greenhouses which can be adapted to suit individual farming requirements. Extensive range of structural and ventilation designs. All structures are sealed with insect proof net.

Coast Guard Netting Services

3 Ray O'Neill Crescent

BALLINA NSW 2478

Freecall: 1800 244 144; Ph: (02) 6686 7321; Fax: (02) 6686 7242

E-mail: cgs@nsw.quik.com.au

Complete greenhouses, shade and quarantine houses (installed or kit), horticultural fabrics, ventilation control equipment, fans and ducting.

Commercial Glasshouses & Equipment

39 Barry Road

KELLYVILLE NSW 2155

Ph: (02) 9629 2555; Fax: (02) 9629 2599; Mobile: 0418 244 519

E-mail: growing@fl.net.au

Supply poly-house and greenhouses—single and multi-span; thermal screens; computer control systems; heating and cooling systems and misting irrigation.

Croudace Greenhouses International Pty Ltd

Contact:

Tony McNamara

34 Mason Road

BOX HILL NSW 2765

Ph: (02) 9679 1964; Fax: (02) 9679 1971; Mobile: 0419 975 075

E-mail: tcmcn@croudacegreenhouses.com.au

Web: www.croudacegreenhouses.com.au

Greenhouse design and construction.

Hortraco Holdings Pty Ltd

12B/8 Gladstone Road

PO Box 864

CASTLE HILL NSW 2154

Ph: (02) 9899 3232; Fax: (02) 9899 3282

E-mail: hortraco@ozemail.com.au

Supply greenhouse covers and films (thermal and anti-fog).

Silverwood Nursery Supplies

PO Box 10

LUDDENHAM NSW 2745

Ph: (02) 4773 4117; Fax: (02) 4773 4417

E-mail: manager@silverwood.com.au

Web: www.silverwood.com.au

Manufacturers and designers of polyhouses. Suppliers of plastic films (UV Stabilised, Antifog, Duratherm, Standard), shadecloth, air-flow fans, brake winches and clamps for plastic and shade covers.

Victoria**Croft Polythene Greenhouses Pty Ltd**

366 Old Healesville Road

YARRA GLEN VIC 3775

Ph: (03) 9730 1926; Fax: (03) 9730 1840; Mobile: 0408 336 012

E-mail: croft@foxall.com.au

Web: www.foxall.com.au/croft

Supply tunnels, multi-span and econo-span greenhouse designs and Ventmaster clad with polythene or shadecloth with roll-up curtains for commercial and home garden use.

Powerplants Australia Pty Ltd

10 Earlston Circuit

CRANBOURNE VIC 3977

Ph: (03) 5995 3514; Fax: (03) 5995 3517

E-mail: powpla@powerplants.com.au

Web: www.powerplants.com.au

Manufacturers of retractable roof greenhouses and contact for a variety of greenhouse equipment and installations, including insect screening, computerised climate control, retractable thermal/solar screens, HAF fans and fogging.

Redpath Ideal Greenhouses

Rohs Road, RSD 4

BENDIGO EAST VICTORIA 3539

Ph: (03) 5441 8284; Fax: (03) 5441 4164

E-mail: redpath@netcon.net.au

Web: www.redpath.com.au

Manufacturers of greenhouses and suppliers of shade cloth and greenhouse film.

South Australia

Control Environment Structures

PO Box 345
NURIOOTPA SA 5355
Ph: (08) 8562 1533; Fax: (08) 8562 2103
E-mail: jfalland@gov.net.au
Web: <http://jfalland.mtx.net>
Greenhouse fabricators.

Hortinova Greenhouses

RSD 433
STRATHALBYN SA 5255
Ph: (08) 8536 0002; Fax: (08) 8536 0182
E-mail: nova@olis.net.au
Multispan greenhouse specialists.

Western Australia

Advanced Environmental Structures

Lot 21 Thornborough Road
MANDURAH WA 6210
Ph: (08) 9581 8866; Fax: (08) 9581 8060
E-mail: aes@cays.com.au
Web: www.cays.com.au
Supply wide span flower houses, polycarbonate greenhouses, seedling nurseries; offer full design service and nationwide installation.

Suppliers of insect screening material

Queensland

Simple Shed Pty Ltd

64 Bridges Road
MORAYFIELD QLD 4506
Ph: (07) 5498 7766; Fax: (07) 5498 7422; Mobile: 0419 745 577
Supply anti-virus screens including Bionet®.

VP Industries Pty Ltd

7 Binary Street
PO Box 6033
YATALA QLD 4207
Ph: 1800 814 618; (07) 3287 1088; Fax: (07) 3807 3675
E-mail: sales@vpindustries.com.au
Web: www.vp.industries.com.au
Supply aphid and thrips -proof screening material.

New South Wales

Advance Greenhouse & Horticultural Products

PO Box 592
SPRINGWOOD NSW 2777
Ph/Fax: (02) 9833 2678; Mobile: 0418 250 159
Supply aphid and thrips-proof screening material.

AgriHort Irrigation Solutions Pty Ltd

270 New Line Road
DURAL NSW 2158
Ph: (02) 9651 7800; Fax: (02) 9651 2638; Mobile: 0408 431 421
E-mail: vaughan@agrihort.com.au
Suppliers of Bionet® insect screening and Azrom greenhouses.

Coast Guard Netting Services

3 Ray O'Neill Crescent
BALLINA NSW 2478
Freecall: 1800 244 144; Ph: (02) 6686 7321; Fax: (02) 6686 7242
E-mail: cgs@nsw.quik.com.au
Supply insect screens and quarantine mesh rolls.

Commercial Glasshouses & Equipment

39 Barry Road
KELLYVILLE NSW 2155
Ph: (02) 9629 2555; Fax: (02) 9629 2599; Mobile: 0418 244 519
E-mail: growing@fl.net.au
Supply aphid and thrips-proof insect screening.

Complete Irrigation Pty Ltd

780 Peats Ridge Road
PEATS NSW 2250
Ph: (02) 4373 1466; Fax: (02) 4373 1467; Mobile: 0417 668 868
E-mail: andrewcarrier@completeirrigation.com.au
Suppliers of Bionet® insect screening and Azrom greenhouses.

L.S. Climate Control Pty Ltd

2/43 Leighton Place
HORNSBY NSW 2077
Ph: (02) 9477 6955; Fax: (02) 9477 5506; Mobile: 0418 249 570
E-mail: livingshade@intercoast.com.au
Supply LS Econet® insect screen for thrips, whiteflies and aphids, low volume mist machines for dispersing insecticides.

Victoria**Croft Polythene Greenhouses Pty Ltd**

366 Old Healesville Road
YARRA GLEN VIC 3775
Ph: (03) 9730 1926; Fax: (03) 9730 1840; Mobile: 0408 336 012
Supply aphid-proof screening for quarantine houses.

Netafim Australia Pty Ltd

213–217 Fitzgerald Road
P.O. Box 248
LAVERTON NORTH VIC 3025
Ph: (03) 9369 8777; Fax: 9369 3865; Mobile: 0408 402 942
E-mail: uadler@netafim.com.au
Supply Klayman-Meteor Anti-Virus Net® and Bionet® insect screens.

Powerplants Australia

10 Earlston Circuit
CRANBOURNE VIC 3977
Ph: (03) 5995 3514; Fax: (03) 5995 3517; Mobile: 0417 388760
E-mail: powpla@powerplants.com.au
Supply Ludvig Svensson insect screen (Econet®) for aphids and thrips.

The Glasshouse Company

121 Herald Street
CHELTENHAM VIC 3192
Ph: (03) 9555 0466; Fax: (03) 9555 3013; Mobile: 0427 105 585
Supply Klayman-Meteor Anti-Virus Net®

Tasmania**Horticultural Suppliers (Hobart)**

Rear 41 Lampton Avenue
DERWENT PARK TAS 7009
Ph: (03) 6273 0436; Fax: (03) 6273 0631
Supply insect screening to quarantine requirements.

South Australia**J. A. Grigson Trading Pty Ltd**

Unit 3/939 Marion Road
MITCHEL PARK SA 5043
Ph: (08) 8377 1515; Fax: (08) 8377 3515
Supply greenhouse film and thrips-proof screening material.

Western Australia**Advanced Environmental Structures**

Lot 21 Thornborough Road
MANDURAH WA 6210
Ph: (08) 9581 8866; Fax: (08) 9581 8060
Web: www.cays.com.au
Supply insect proof screening-mesh size 50 microns.

IPM consultants for the ornamental industry

Queensland**Bio-Resources**

PO Box 578
SAMFORD QLD 4520
Ph: (07) 4632 9215; Fax: (07) 4639 6300; Mobile: 015 969 408
E-mail: richard@bioresources.com.au
Web: www.bioresources.com.au
Biological control advice.

CropTech

M/S 305 Langbeckers Road
BUNDABERG QLD 4670
Ph: (07) 4155 6344; Fax: (07) 4155 6656
E-mail: croptech@bigpond.com
Advice on IPM management and monitoring.

Hortech Services Pty Ltd

PO Box 370
KALLANGUR QLD 4503
Ph/Fax: (07) 3886 0389; Mobile: 0418 878 484
E-mail: hortech@ats.com.au
Pest and disease monitoring.

Horticultural Crop Monitoring

PO Box 3725
CALOUNDRA DC QLD 4551
Ph/Fax: (07) 5491 4662; Mobile: 0412 714 905
E-mail: pjones@hotmail.net.au or zeki@bigpond.com
IPM consulting service, leaf and soil moisture analysis, general horticultural consulting.

Ornatec Pty Ltd

438 Old Cleveland Road
EAST BIRKDALE QLD 4159
Ph: (07) 3207 2533; Fax: (07) 3207 5998; Mobile: 0418 880 787
E-mail: birsdale@BirkdaleInternational.com
Web: www.BirkdaleInternational.com
Advice on pest and disease management, IPM and crop consultancy management, evaluation of pesticides for registration.

Valley Crop Monitoring Service

20 Smith Street
GATTON QLD 4343
Mobile: 0427 640 450; Fax: (07) 5462 2096
IPM and crop consultancy.

New South Wales**Beneficial Bugs Pty Ltd**

PO Box 436
RICHMOND NSW 2753
Ph: (02) 4570 1331; Fax: (02) 4578 3979; Mobile: 0414 789 125
E-mail: aryland@ozemail.com.au
IPM consulting service in nursery, vegetables, fruit and amenity.

Crop & Nursery Services

PO Box 6153
KINCUMBER NSW 2251
Ph: (02) 4381 0051; Fax: (02) 4381 0071; Mobile: 0412 826 589
E-mail: cropandnursery@optusnet.com.au
IPM consultancy, inspect sticky traps for identification and counts, on-site monitoring.

Hortgrow Services Pty Ltd

PO Box 3205
DURAL NSW 2158
Ph/Fax: (02) 9652 0217; Mobile: 0418 250 283
E-mail: hun&mick@selttek.com.au
IPM consultancy, on-site monitoring.

Victoria**IPM Technology**

PO Box 560

HURSTBRIDGE VIC 3009

Ph: (03) 9710 1554; Fax: (03) 9710 1354; Mobile: 0419 891 575

E-mail: paulh@c033.aone.net.au

IPM consultancy, biological control, crop monitoring.

TS Agricultural Consultants

PO Box 107

ASCOT VALE VIC 3032

Ph: (03)8371 0013; Fax: (03) 9375 7552

E-mail: peterat@tsac.com.au

Web: www.tsac.com.au

Advice on pest and disease diagnosis and management.

Yarra Valley Crop Care

1/7 George St

WANDIN VIC 3139

Ph: (03) 5964 3566; Fax: (03) 5964 2045; Mobile: 0419 332 378

IPM consultancy, on-site monitoring.

Tasmania**Agronico Pty Ltd**

175 Allport Street

LEITH SA 7315

Ph: (03) 6428 2519; Fax: (03) 6428 2049

Mobile: 0408 140 129/0418 140 131

E-mail: agronico@trump.net.au

Pest and disease management advice; weed control and monitoring.

Serve-Ag Pty Ltd

PO Box 690

DEVONPORT TAS 7310

Ph: (03) 6427 0800; Fax: (03) 6427 0801

E-mail: info@serve-ag.com.au

Web: www.serve-ag.com.au

Crop protection advice; plant and soil analysis; product development; irrigation design and monitoring.

Specialist Agricultural Services Pty Ltd

180 Pawleena Road

SORELL TAS 7172

Ph: (03) 6265 1799; Fax: (03) 6265 2661

E-mail: specialist@trump.net.au

Web: www.sorell.tco.as.au/sas

Pest management advice, especially WFT.

South Australia**Cavallaro Horticultural Services**

Lot 6 Angle Vale Road

EVANSTON GARDENS SA 5116

Mobile: 0417 839 082; Fax: (08) 8284 7500

E-mail: dpflowers@picknowl.com.au

Crop monitoring advice, IPM consultancy.

Western Australia

ESIX

30 Lynwood Avenue

LYNWOOD WA 6147

Ph: (08) 9350 5154; Fax: (08) 9350 9469

E-mail: izzett@wantree.com.au

IPM consultancy, chemical protection, pest scouting; pesticide use training.

Horticultural Technical Services

PO Box 991

MANJIMUP WA 6258

Ph: (08) 9777 2888; Fax: (08) 9777 2020; Mobile: 0419 925 592

E-mail: lwhts@ozemail.com.au

Monitoring diamondback moth and *Heliothis*; agronomic advice; nematode sampling; orchard management; crop scheduling and budget advice.

Plant Diagnosis Services

156 Albany Highway

BEDFORDALE WA 6112

Ph: (08) 9390 3122; Fax: (08) 9390 0046

IPM consultancy, design and monitoring IPM systems; pest and disease management, diagnostic and control strategies.

Pesticide training courses and information services

Pesticide training courses

Pesticide training courses are available at several institutes. Contact your nearest State department of agriculture for further information on chemical use providers.

ChemCert Australia (formerly Farmcare)

National Secretariat, Farrer Centre, Charles Sturt University

Locked Bag 588

WAGGA WAGGA NSW 2678

Ph: (02) 6933 2177; Fax: (02) 6933 2924

E-mail: sking@csu.edu.au or farrer@csu.edu.au

Web: <http://farrer.riv.csu.edu.au/chemcert/>

A nationally co-ordinated training and accreditation program on safe use of farm chemicals in agriculture and veterinary production. Program covers safety, label interpretation, application, calibration, legislation, IPM management strategies, record keeping, clean-up and container disposal. For further information, contact this office or the nearest local provider.

Queensland

Ph: (07) 3352 5033; Fax: (07) 3352 5032

E-mail: chemsmart@powerup.com.au

Regional: Ph: (07) 4622 1277; Fax: (07) 4622 3860

Mobile: 0428 740 725

E-mail: chemcert@tpgi.com.au

New South Wales

Ph: (02) 9387 4714; Fax: (02) 9387 4746

E-mail: mcalpinj@nswfarmers.com.au

Victoria

Ph: (03) 5622 2055; Fax: (03) 5622 2199

E-mail: bpenna@sympac.com.au

Tasmania

Ph: (03) 6331 2131; Fax: (03) 6331 4344

E-mail: tritb@bigpond.com.au

South Australia

Ph: (08) 8226 1842; Fax: (08) 8226 1844

E-mail: Beaumont.Margaret@saugov.sa.gov.au

Western Australia

Ph: (08) 9341 5325; Fax: (08) 9341 5325

E-mail: farmcarewa@bigpond.com

Northern Territory

Ph: (08) 8946 6328; Fax: (08) 8946 6690

E-mail: Alison.Scott@ntu.edu.au

Registered chemical products

Information on registered chemical products is available from these sources.

Pubris (Public Chemical Registration Information System)

This is a database constantly updated on the Internet: <http://www.dpie.gov.au/nra/pubcris.html>

www.dpie.gov.au/nra/pubcris.html

Centre for Pesticide Application & Safety

University of Queensland, Gatton College

LAWES GATTON QLD 4343

Ph: (07) 5460 1291; Fax: (07) 5460 1283

Peskem—The *Australian directory of registered pesticides and their uses* Published and updated regularly. Set of three printed books. Peskem PC for Windows is also available. Peskem is available from the Centre for Pesticide Application and Safety. Peskem will do specific searches for a modest fee and give you a list of currently registered chemicals and uses related to your choice of crop, pest, product or active ingredient.

Infopest—National pest management information system on CD-ROM

Available from:

Marketing Manager, Infopest

DPI Animal & Plant Health Services

GPO Box 46

BRISBANE QLD 4001

Ph: (07) 3239 3967; Fax: (07) 3211 3294

E-mail: infopest@dpi.qld.gov.au

Web site: www.dpi.gov.au/aphs/infopest

Specific searches that give you a list of currently registered chemicals and uses related to your choice of crop, pest, product or active ingredient.

Continued over page

Infinder—Latest national information on agricultural and veterinary chemical products available on CD-ROM

Available from:

Farm Chemicals Program

14th Floor, 25 Grenfell Street

ADELAIDE SA 5000

GPO Box 1671, ADELAIDE SA 5001

Ph: (08) 8226 0405 or (08) 8226 0548; Fax: (08) 8226 1844

The Agricultural and Veterinary Product Index—A Complete Chemical Product Guide

IMS Publishing

PO Box 977

CROWS NEST NSW 2065

Ph: (02) 9438 3588; Fax: (02) 9906 3955

For general information on National Registration Authority off-label Permits

Ph: (02) 6271 6347. Information on who can apply for a permit and other relevant matters can be found in the NRA Internet site: <http://www.dpie.gov.au/nra/minor.use.html> (and hit 'apply').

State laws can vary in relation to off-label permits. Most Australian States require off-label permits for the use of any chemicals not registered for a particular crop and pest. In Victoria it is possible to use an unregistered schedule 5 or 6 chemical without a permit, but Victorians do need permits for schedule 7 chemicals.

Accredited IPM training providers and IPM courses

Contact your nursery association for information on local training providers and availability of training courses. Contact details are below and on page 2 of this section.

National

Nursery Industry Association of Australia (NIAA)

Ph: (02) 9876 5200; Fax: (02) 9876 6360

Web: www.niaa.org.au

Queensland

Queensland Nursery Industry Association (QNIA)

Ph: (07) 3277 7900; Fax: (07) 3277 7109

New South Wales

Nursery Industry Association of New South Wales (NIAN)

Ph: (02) 9679 1472; Fax: (02) 9679 1655

Victoria

Nursery Industry Association of Victoria (NIAV)

Ph: (03) 9576 0599; Fax: (03) 9576 0431

Tasmania

Nursery Industry Association of Tasmania (NIAT)

Ph: (03) 6398 2474; Fax: (03) 6398 2474

South Australia

Nursery & Landscape Industry Association of South Australia Inc. (NLIASA)

Ph: (08) 8303 9578; Fax: (08) 8303 9424

Western Australia

Nursery Industry Association of Western Australia (NIAWA)

Ph: (08) 9485 1144; Fax: (08) 9485 1544

Northern Territory

Nursery Industry Association of Northern Territory (NIANT)

Ph: (08) 8983 3233; Fax: (08) 8983 3244

Information providers

Contact your local nursery industry development officer and private consultants (listed in this directory) for general information on IPM and to assist you in implementing IPM management practices.



Queensland

DPI Call Centre

Helps you access DPI's information services and products. Queensland residents can phone 13 25 23 from 8.00 a.m. to 8.00 p.m. Monday to Friday, excluding public holidays. Callers outside Queensland can ring (07) 3404 6999.

Web: www.dpi.qld.gov.au/

GrowSearch Australia

Centre for Amenity and Environmental Horticulture

Queensland Horticulture Institute

Redlands Research Station

Cnr Delancey and Finucane Road

PO Box 327

CLEVELAND QLD 4163

Ph: (07) 3821 3784; Fax: (07) 3286 7618

Information service for Australia's horticultural industry with a database of more than 17 000 articles on crop production, irrigation systems, hydroponics, IPM and more. You can request information by phone or fax.

New South Wales

NSW Agriculture

Locked Bag 21

ORANGE NSW 2800

Toll free: 1800 808 095; Ph: (02) 6391 3100; Fax: (02) 6391 3206

Web: www.agric.nsw.gov.au

Offers wide range of up-to-date horticultural information.

Victoria

NRE Information Centre

8 Nicholson Street (cnr Victoria Parade)

PO Box 500

EAST MELBOURNE VIC 3002

Ph: (03) 9637 8325; Fax: (03) 9637 8150

Web: www.nre.vic.gov.au/sales/infocntr/index.htm

Offers wide range of up-to-date horticultural information.

Department of Natural Resources & Environment Bookshop

Customer Service Centre (for information on NRE services).

Victorian and interstate callers can ring 13 61 86 from 8 a.m. to 8 p.m.

Monday to Friday, excluding public holidays.

Tasmania

Department of Primary Industry, Water & Environment

Marine Board Building, 1 Franklin Wharf

GPO Box 192B

HOBART TAS 7001

Ph: 13 13 68 (within Tasmania). Callers outside Tasmania can ring

(03) 6233 8011 or Fax: (03) 6234 1335

Web: www.dpiwe.tas.gov.au

Offers wide range of up-to-date horticultural information.

South Australia

PIRSA Rural Solutions

c/- Post Office

LENSWOOD SA 5240

Ph: 1300 364 322; Fax: (08) 8389 8899

E-mail: pirsa.ruralsolutions@saugov.sa.gov.au

Web: www.pir.sa.gov.au/

Provides horticultural information and consultancy service.

Western Australia

Agriculture WA

Information Service

3 Baron Hay Court

SOUTH PERTH WA 6151

Locked Bag 4

BENTLEY DELIVERY CENTRE WA 6983

Ph: (08) 9368 3729; Fax: (08) 9474 2018

Web: www.agric.wa.gov.au

Offers wide range of up-to-date horticultural information.

Northern Territory

Department of Primary Industries & Fisheries: Resource Protection

Horticultural Division

Berrimah Research Centre

Makagon Road

GPO Box 990

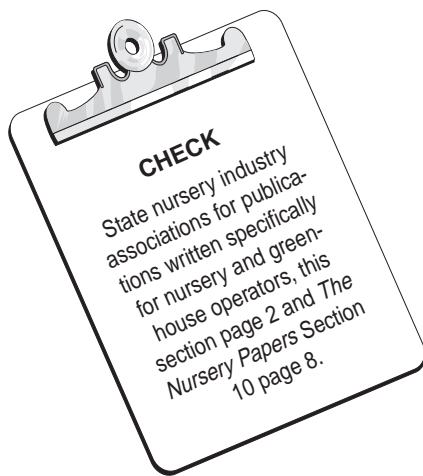
DARWIN NT 0801

Ph: (08) 8999 2292; Fax: (08) 8999 2049

Web: www.nt.gov.au/dpif

Offers wide range of up-to-date horticultural information.

Agricultural booksellers



Queensland

DPI Bookshop

GPO Box 46

BRISBANE QLD 4001

80 Ann Street, BRISBANE 4000

Orders: Freecall 1800 816 541; Fax: (07) 3239 6509

E-mail: books@dpi.qld.gov.au

Web: www.dpi.qld.gov.au/catalogue

New South Wales

Florilegium

P.O Box 644

ROZELLE NSW 2039

Ph: (02) 9571 8222; Fax: (02) 9571 8333

E-mail: florileg@ozemail.com.au

Johima Books

PO Box 4048

PARRAMATTA NSW 2124

Ph: (02) 9687 1922; Fax: (02) 9687 1027

E-mail: nat@johima.com.au

Web: www.johima.com.au

NSW Agriculture

Publications Sales Unit

Locked Bag 21

ORANGE NSW 2800

Orders: Freecall 1800 028 374; Ph: (02) 6391 3433; Fax: 1800 642 065

The Land Book Company

Free Post 18

NORTH RICHMOND NSW 2754

Ph: (02) 4570 4444; Fax: (02) 4570 4649

Wiseman's Campus Bookshop

University of Western Sydney (Hawkesbury)

RICHMOND NSW 2753

Ph: (02) 4570 1370

Victoria

Crop Health Services

Department of Natural Resources & Environment
Private Bag 15
SOUTH EASTERN MAIL CENTRE VIC 3176
Ph: (03) 9210 9356; Fax (03) 9800 3521
E-mail: deborah.keating@nre.vic.gov.au

D & A Information Services

648 Whitehorse Road
PO Box 163
MITCHAM VIC 3132
Ph: (03) 9210 7777; Fax: (03) 9210 7788
E-mail: service@dadirect.com.au
Web: www.dadirect.com.au

Landlinks Press

PO Box 1139
COLLINGWOOD VIC 3066
Freecall: 1800 645 051; Ph: (03) 9662 7500; Fax: (03) 9662 7555
E-mail: sales@publish.csiro.au
Web: www.publish.csiro.au

NRE Information Centre

8 Nicholson Street (Cnr Victoria Parade)
PO Box 500
EAST MELBOURNE VIC 3002
Ph: (03) 9637 8080; Fax: (03) 9637 8150
Web: <http://www.nre.vic.gov.au/sales/infocntr/index.htm>

Tasmania

Morescope Publishing

50 Carters Road
PORT HUON TAS 7116
Ph: (03) 6297 1777; Fax: (03) 6297 1144

South Australia

Farmer's Information Centre
Level 2 Mobilong House
Seventh Street
PO Box 469
MURRAY BRIDGE SA 5253
Ph: 1800 356 446; Fax: (08) 8535 6427
E-mail: farmer.info@saugov.sa.gov.au
Web: www.pir.sa.gov.au

Western Australia

Granny Smith's Bookshop

PO Box 27
SUBIACO WA 6008
Ph: (08) 9388 1965; Fax: (08) 9388 1852
E-mail: granny@aoi.com.au
Web: www.aoi.com.au/granny