9-3

Plant Varieties Journal

Quarter Three 1996 Volume 9 Number 3

Official Journal of Plant Breeders Rights Australia

ADVERTISE YOUR NEW VARIETY OR SERVICES IN THE

Plant Varieties Journal

Plant Breeders and their agents are invited to take this opportunity to promote their new plant varieties by advertising in the Plant Varieties Journal. Consultant Qualified Persons are also invited to advertise their services. The Plant Varieties Journal is well circulated throughout the horticultural and agricultural industry. Advertising in the Journal will promote the commercialisation of new plant varieties and the services offered by the qualified persons. Our policy is to promote the varieties which are currently in the PBR scheme and the services of those who are currently accredited by the PBR office.

Advertising is available at a casual space rate as well as a four times rate, attracting a considerable discount of 25%! Advertisements will be published on the front cover, back cover or inside the front and back covers . Please note that the front cover is restricted to a full colour photograph of a variety.

The current advertising rates are:

			Casual	4 issues
Front Cover	**Colour**		$1000.00	$3000.00
Back Cover	(Full Page only)	**Colour**	750.00	2250.00
	(Full Page only)	**Mono**	500.00	1500.00
Inside Front Cover	(Full Page)	Mono	400.00	1200.00
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	(Half Page)	Mono	200.00	600.00

Material Requirements

Front page pic:	full colour negative or slide of variety (please supply caption)
Inside front and back pages:	same size camera ready bromide
Back page:	same size colour separated negative film, right reading, emulsion side down, 120 line screen with chemical colour proof or same size camera ready bromide (mono)

Mechanical Data

Trimmed size:	297mm (deep) x 210mm (wide)
Full page print area:	270mm (deep) x 185mm (wide)
Half page print area:	130mm (deep) x 185 mm (wide)

DO YOU NEED HELP? The Plant Breeders Rights Office can arrange to have your mono artwork prepared at a reasonable cost if you are unable to provide it.

Plant Varieties Journal

QUARTER THREE 1996 Volume 9 Number 3

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SUBSCRIPTION ENQUIRIES AND ADVERTISING SHOULD BE ADDRESSED TO:

PLANT BREEDERS RIGHTS AUSTRALIA
Department of Primary Industries and Energy
GPO Box 858, Canberra ACT 2601
Telephone: (06) 272 4228 Facsimile: (06) 272 3650

CLOSING DATE FOR ISSUE VOL 9 NO 4 : 15 NOVEMBER 1996

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Part 1 - General Information

INTRODUCING 'CENTRALISED TESTING CENTRES'

Under new Plant Breeder's Rights Regulations, establishments may be officially authorised by the PBR office to conduct test growings. An authorised establishment will be known as Centralised Test Centre (CTC).

Currently, the implementation of PBR in Australia relies on a 'breeder testing' system in which the applicant, in conjunction with a nominated Qualified Person (QP), establishes, conducts and reports a comparative trial. More often than not, trials by several breeders are being conducted concurrently at different sites. This makes valid comparisons difficult and often results in costly duplication.

While the current system is and will remain satisfactory, other optional testing methods will be introduced to add flexibility to the PBR process.

Centralised Testing is one such optional system. It is based upon the authorisation of private or public establishments to test one or more genera of plants. Applicants can choose to submit their varieties for testing by a CTC or continue to do the test themselves. Remember, using a CTC to test your variety is voluntary.

The introduction of CTCs recognises the advantages of testing a larger number of candidate varieties (with a larger number of comparators) in a single comprehensive trial. Not only is there an increase in scientific rigour but there are substantial economies of scale and commensurate cost savings. A CTC will establish, conduct and report each trial on behalf of the applicant.

The PBR office has amended the Regulations so that cost savings can be passed to applicants who choose to test their varieties in a CTC. Accordingly, when 5 or more candidate varieties of the same genus are tested simultaneously, each will qualify for the CTC examination fee of $800. This is a saving of nearly 40% over the normal fee of $1400.

Trials containing less than 5 candidate varieties capable of being examined simultaneously will not be considered as centralised test trials regardless of the authorisation of the facility. Candidate varieties in non-qualifying small trials will not qualify for CTC reduction of examination fees.

Following the call for expressions of interest in becoming authorised as a CTC, establishments may apply in writing to the PBR office outlining their claims against the selection criteria. Initially, only one CTC will be authorised for each genus. Exemptions to this rule can be claimed due to special circumstances, industry needs and quarantine regulations. Authorisations will be reviewed periodically.

Authorisation of CTCs is not aimed solely at large research institutions. Smaller establishments with appropriate facilities and experience, can also apply for CTC status. There is no cost for authorisation as a CTC.

CALL FOR EXPRESSIONS OF INTEREST TO BE AUTHORISED AS A 'CENTRALISED TESTING CENTRE'

Establishments interested in gaining authorisation as a Centralised Testing Centre should apply in writing addressing each of the Conditions and Selection Criteria outlined below. Applications should be sent to

The Registrar
Plant Breeders Rights Office
PO Box 858
CANBERRA ACT 2601
Fax (06) 272 3650

Closing date of applications: 31 December 1996

Conditions and selection criteria

To be authorised as a CTC, the following conditions and criteria will need to be met:

Appropriate facilities
While in part determined by the genera being tested, all establishments must have facilities that allow the conduct and completion of moderate to large scale scientific experiments without undue environmental influences. Again dependent on genera, a range of complementary testing and propagation facilities (e.g. outdoor, glasshouse, shadehouse, tissue culture stations) is desirable.

Experienced staff
Adequately trained staff, and access to appropriately accredited Qualified Persons, with a history of successful PVR/PBR applications will need to be available for all stages of the trial from planting to the presentation of the analyzed data. These staff will require the authority to ensure timely maintenance of the trial. Where provided by the PBR office, the protocol and technical guidelines for the conduct of the trial must be followed.

Substantial industry support
Normally the establishment will be recognised by a state or national industry society or association. This may include/be replaced by a written commitment from major nurseries or other applicants who have a history of regularly making applications for PBR Australia to use the facility.

Capability for long term storage of genetic material
Depending upon the genus, a CTC must be in a position to make a long term commitment to collect and maintain, at minimal cost, genetic resources of vegetatively propagated species as a source of comparative varieties. Applicants indicating a willingness to act as a national genetic resource centre in perpetuity will be favoured.

Contract testing for 3rd Parties
The operators of a CTC must prepared to test varieties submitted by a third party.

Relationship between CTC and 3rd Parties
A formal arrangement between the CTC and any third party including fees for service will need to be prepared and signed before the commencement of the trial. It will include among other things: how the plant material will be delivered (e.g. date, stage of development plant, condition etc); allow the applicant and/or their agent and QP access to the site during normal working hours; and release the use of all trial data to all applicants for PBR purposes.

One trial at a time
Unless exempted in writing by the PBR office, all candidates and comparators should be tested in a single trial.

One CTC per genus
Normally only one CTC will be authorised to test a genus. One CTC may be authorised to test more than one genus.

Authorisations for each genus will be reviewed periodically.

Brief details of all applications for authorisation as a CTC will be published in the Plant Varieties Journal 10(1) with a list of all authorised establishments published in each edition thereafter.

Objections

Formal objections to applications can be lodged by a person who:

a) considers their commercial interests would be affected by a grant of PBR to the applicant; **and**

b) considers that the applicant will not be able to fulfil all the conditions for the grant of PBR to the variety.

A person submitting a formal objection must provide supporting evidence to substantiate the claim. A copy of the submission will also be sent to the applicant and the latter will be asked to show why the objection should not be upheld.

A fee of $100 is payable at the time of lodging a formal objection and $75/hour will be charged if the examination of the objection by the PBR office takes more than 2 hours.

Comments. Any person may make comment on the eligibility of any application for PBR. The comment is considered confidential. There is no charge for this. If the comment is soundly based the person may be requested to lodge a formal objection.

All formal objections and comments must be lodged with the Registrar not later than six months after the date the description of the variety is published in this journal.

Applying For Plant Breeders Rights

Applications are accepted from the original breeder of a new variety (from their employer if the breeder is an employee) or from a person who has acquired ownership from the original breeder. Overseas breeders need to appoint an agent to represent their interests in Australia. Interested parties should contact the PBR office and an accredited Qualified Person (Appendix 3) experienced in the plant species in question.

Requirement to Supply Comparative Varieties

Once an application has been accepted by the PBR office, it is covered by provisional protection. Also it **immediately** becomes a 'variety of common knowledge' and thus may be required by others as a comparator for their applications with a higher application number.

Applicants are reminded that they are required to release propagative material for comparative testing provided that the material is used for no other purpose and all material relating to the variety is returned when the trial is complete. The expenses incurred in the provision of material for comparative trials is borne by those conducting the trials.

As the variety is already under provisional protection, any use outside the conditions outlined above would qualify as an infringement and would be dealt with under section 53 of the Plant Breeder's Rights Act.

Applicants having difficulties procuring varieties for use in comparative trials are urged to contact the PBR office immediately.

Instructions to Authors

Before preparing a short description, authors should consult the *Plant Varieties Journal* issue 8(1) p 2, March 1995 for the accepted style. Due to problems converting the wide range of word processing disks that are submitted, the use of a tabular format (i.e. using the tables option in the word processing package) HAS BEEN DISCONTINUED. Instead, data should be presented in columns separated by ONE TAB stop. MS Word for Windows remains the preferred word processing package. Additional examples of short descriptions are available from the PBR office. The style of the short descriptions published below are generally adequate.

For consistency, botanical and common names should follow those of: *Hortus Third*, Staff of the LH Bailey Hortorium, Macmillan Publishing Company, 1976; *Census of Australian Vascular Plants*, RJ Hnatiuk AGPS, 1990; *The Smart Gardeners Guide to Common Names of Plants*, M Adler Rising Sun Press 1994; or *A Checklist of Economic Plants in Australia*, CSIRO 1994.

Important Changes

Overseas Test Reports

Many PBR applications are based on overseas DUS test reports. In the past the PBR office has obtained these reports from the relevant overseas testing authorities. Often these reports duplicated information already held by the applicant.

In many cases DUS test reports are accepted in lieu of conducting a similar trial in Australia. In this way the applicants are waived the costs of conducting a comparative trial. However, as the costs of procuring these reports were not passed on to the applicants, there is some cross subsidisation by other applications.

Starting from 1 July 1996, the PBR office will not be responsible for obtaining overseas DUS test reports on behalf of applicants. *It will be the sole responsibility of the applicants or their agents to obtain these reports.* Where applicants already have reports they are advised to submit a certified true copy of the report with the application.

Agents seeking test reports are advised to contact their principal and procure DUS test reports directly from them.

Only certified true copies of DUS test reports *in English* will be accepted by the PBR office.

Further information is available from the PBR office.

Extension of Provisional Protection

Applicants have 12 months after acceptance of their application in which to complete their application. By this stage the Part 2 Application including the official description of the variety should have been submitted and all outstanding fees are paid. Once these requirements have been satisfied the variety remains under provisional protection until the six month period for public comment has elapsed and the application has been examined for the granting of full rights. However it is well recognised that the completion of many applications will take much longer due to a number of reasons. Some plants require a number of years from propagation before the distinct characters are observable. Also comparative trials may fail due to unforeseen circumstances (bad weather, disease etc). In these cases an extension of provisional protection can be requested for up to 12 months at a time. The current use of 'Extension of Provisional Protection' forms is based mainly on sect 22(2) of the *Plant Variety Rights* Act, 1987 and sect 39(2) of the *Plant Breeders Rights* Act, 1994. These sections relate mainly to the Secretary being satisfied that rights are unlikely to be granted and consequently notifying the applicant that the variety is no longer under provisional protection. The applicant completes the 'Extension of Provisional Protection' form to convince the Secretary that the application is likely to proceed to grant. This is achieved by providing reasons as to why the application is delayed (plants in quarantine, DUS trial not ready, description incomplete etc) and by providing estimated dates on which various stages will be completed. For PVR applications deferment of the examination fee is also possible unless the variety has been commercialised.

Request for an extension should be made on the 'Extension of Provisional Protection Ext2(8/96)' form. Following is a guide to determining whether an extension of provisional protection should be requested.

<u>When to request an extension of provisional protection</u>

1. Was the application accepted more than 12 months ago?
   NO - extension not required
   YES - 2

2. Has a complete Part 2 application been lodged with the PBR office? (exam fee paid, description + published)
   NO - 3
   YES - extension not required

3. Was a field exam completed more than 9 months ago?
   NO - 4
   YES - extension required

4. Is the application based on OS data which was received more than 6 months ago?
   NO - 5
   YES - extension required

5. Is a previous request for extension still current?
   NO - extension required
   YES - extension not required

BELOW: Professor Wal Whalley of the Department of Botany, University of New England receiving the first Certificate of Grant under the Plant Breeders Rights Act 1994 for the variety Microlaena 'Griffin' from Doug Waterhouse, Acting Registrar of PBR Australia.

Part 2 - Public Notices

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ACCEPTANCES

The following varieties are under provisional protection from the date of acceptance

AGLAONEMA
Aglaonema nitidum

'Queen of Siam' syn April in Paris
Application No: 96/038 Accepted: 14 Aug 1996.
Applicant: **B F Brown,** Palm Bay, Florida, USA.
Agent: **Redlands Nursery Pty Ltd,** Redland Bay, QLD.

ALSTROEMERIA
Alstroemeria aurea

'583 JA'
Application No: 96/008 Accepted: 8 Jul 1996.
Applicant: **Konst Alstroemeria BV,** Nieuveen, The Netherlands.
Agent: **Maxiflora Pty Ltd,** Monbulk, VIC.

BRACHYSCOME
Brachyscome segmentosa x B. procumbens

'Sunblush'
Application No: 96/138 Accepted: 22 Jul 1996.
Applicant: **Patricia Shaw,** Sunnybank, QLD.
Agent: **Australian Native Flora Promotions Pty Ltd,** Limpinwood, NSW.

CAATINGA STYLO
Stylosanthes

'Primar' syn CPI 92838B
Application No: 96/160 Accepted: 27 Aug 1996.
Applicant: **CSIRO Division of Tropical Crops and Pastures,** St Lucia, QLD.

'Unica' syn CPI 110361
Application No: 96/161 Accepted: 27 Aug 1996.
Applicant: **CSIRO Division of Tropical Crops and Pastures,** St Lucia, QLD.

CANOLA
Brassica napus

'BLN 971'
Application No: 96/188 Accepted: 9 Sep 1996.
Applicant: **New South Wales Agriculture,** Orange, NSW.
Agent: **The Grain Pool of WA,** Perth, WA.

'BLN 973'
Application No: 96/189 Accepted: 9 Sep 1996.
Applicant: **New South Wales Agriculture,** Orange, NSW.
Agent: **The Grain Pool of WA,** Perth, WA.

'BLN 877'
Application No: 96/190 Accepted: 9 Sep 1996.
Applicant: **New South Wales Agriculture,** Orange, NSW.
Agent: **The Grain Pool of WA,** Perth, WA.

CENTRO
Centrosema pubescens

'Cardillo' syn Q 25261/CPI 43197
Application No: 96/192 Accepted: 4 Sep 1996.
Applicant: **The State of Queensland through its Department of Primary Industries,** Brisbane, QLD and **CSIRO, Division of Tropical Crops and Pastures,** St. Lucia, QLD.

CHERRY
Prunus cerasus x P. canescens

'Gisela 5' syn GI 148-2
Application No: 96/155 Accepted: 14 Aug 1996.
Applicant: **Consortium Deutscher Baumschulen,** Ellerbek, Germany.
Agent: **Fleming's Nurseries & Associates Pty Ltd,** Monbulk, VIC.

CONEBUSH (DRUMSTICK)
Isopogon anemonifolius

'Woorikee 2000'
Application No: 96/145 Accepted: 5 Aug 1996
Applicant: **Australflora Pty Ltd,** Montrose, VIC.

COTTON
Gossypium hirsutum

'Sicot 50i'
Application No: 96/150 Accepted: 6 Aug 1996.
Applicant: **CSIRO Division of Plant Industry,** Narrabri, NSW.

'Siokra L-23i'
Application No: 96/151 Accepted: 6 Aug 1996.
Applicant: **CSIRO Division of Plant Industry,** Narrabri, NSW.

'Sicot S-8i'
Application No: 96/152 Accepted: 6 Aug 1996.
Applicant: **CSIRO Division of Plant Industry,** Narrabri, NSW.

'Siokra V-15i'
Application No: 96/153 Accepted: 6 Aug 1996.
Applicant: **CSIRO Division of Plant Industry,** Narrabri, NSW.

'Sicala V-2i'
Application No: 96/154 Accepted: 6 Aug 1996.
Applicant: **CSIRO Division of Plant Industry,** Narrabri, NSW.

DAYLILY
Hemerocallis hybrid

'Black Eyed Stella'
Application No: 96/136 Accepted: 22 July 1996.
Applicant: **Robert J Roberson,** Grain Valley, Missouri, USA.
Agent: **Plants International Pty Ltd,** Silvan, VIC.

DOGWOOD TREE
Cornus kousa x C. florida

'Rutdan' syn Celestial
Application No: 96/182 Accepted: 2 Sep 1996.
Applicant: **Rutgers University,** New Jersey, USA.
Agent: **Fleming's Nurseries Pty Ltd,** Monbulk, VIC.

'Rutcan'
Application No: 96/183 Accepted: 2 Sep 1996.

Applicant: **Rutgers University**, New Jersey, USA.
Agent: **Fleming's Nurseries Pty Ltd,** Monbulk, VIC.

LAVENDER
Lavandula stoechas ssp pedunculata

'Pukehou'
Application No: 96/140 Accepted: 22 Jul 1996.
Applicant: **Pukehou Nursery**, Manakau, NZ.
Agent: **Plant Growers Australia Pty Ltd,** Wonga Park, VIC.

LEMON SCENTED MYRTLE
Backhousia citriodora

'Harvest Home'
Application No: 96/137 Accepted 5 Aug 1996.
Applicant: **The Australian Lemon Myrtle Company,** Lindendale, NSW.

LILY
Lilium hybrid

'Colonna'
Application No: 96/162 Accepted: 19 Aug 1996.
Applicant: **Vletter & Den Haan Beheer BV,** Rijnsburg, The Netherlands.
Agent: **Kenny Lane Nurseries Pty Ltd,** Monbulk, VIC.

'Rosato'
Application No: 96/163 Accepted: 19 Aug 1996.
Applicant: **Vletter & Den Haan Beheer BV,** Rijnsburg, The Netherlands.
Agent: **Kenny Lane Nurseries Pty Ltd,** Monbulk, VIC.

'Arena'
Application No: 96/164 Accepted: 19 Aug 1996.
Applicant: **Vletter & Den Haan Beheer BV,** Rijnsburg, The Netherlands.
Agent: **Kenny Lane Nurseries Pty Ltd,** Monbulk, VIC.

'Woodriff's Memory'
Application No: 96/165 Accepted: 19 Aug 1996.
Applicant: **Vletter & Den Haan Beheer BV,** Rijnsburg, The Netherlands.
Agent: **Kenny Lane Nurseries Pty Ltd,** Monbulk, VIC.

'Tiber'
Application No: 96/166 Accepted: 19 Aug 1996.
Applicant: **Vletter & Den Haan Beheer BV,** Rijnsburg, The Netherlands.
Agent: **Kenny Lane Nurseries Pty Ltd,** Monbulk, VIC.

'Spinoza'
Application No: 96/167 Accepted: 19 Aug 1996.
Applicant: **Vletter & Den Haan Beheer BV,** Rijnsburg, The Netherlands.
Agent: **Kenny Lane Nurseries Pty Ltd,** Monbulk, VIC.

'Sartre'
Application No: 96/168 Accepted: 19 Aug 1996.
Applicant: **Vletter & Den Haan Beheer BV,** Rijnsburg, The Netherlands.
Agent: **Kenny Lane Nurseries Pty Ltd,** Monbulk, VIC.

'Sorbonne'
Application No: 96/169 Accepted: 19 Aug 1996.
Applicant: **Vletter & Den Haan Beheer BV,** Rijnsburg, The Netherlands.
Agent: **Kenny Lane Nurseries Pty Ltd,** Monbulk, VIC.

'Lombardia'
Application No: 96/170 Accepted: 19 Aug 1996.
Applicant: **Vletter & Den Haan Beheer BV,** Rijnsburg, The Netherlands.
Agent: **Kenny Lane Nurseries Pty Ltd,** Monbulk, VIC.

'Miami'
Application No: 96/171 Accepted: 19 Aug 1996.
Applicant: **Vletter & Den Haan Beheer BV,** Rijnsburg, The Netherlands.
Agent: **Kenny Lane Nurseries Pty Ltd,** Monbulk, VIC.

'Our Medusa'
Application No: 96/172 Accepted: 19 Aug 1996.
Applicant: **Vletter & Den Haan Beheer BV,** Rijnsburg, The Netherlands.
Agent: **Kenny Lane Nurseries Pty Ltd,** Monbulk, VIC.

'Galilei'
Application No: 96/173 Accepted: 19 Aug 1996.
Applicant: **Vletter & Den Haan Beheer BV,** Rijnsburg, The Netherlands.
Agent: **Kenny Lane Nurseries Pty Ltd,** Monbulk, VIC.

'Simplon'
Application No: 96/174 Accepted: 19 Aug 1996.
Applicant: **Vletter & Den Haan Beheer BV,** Rijnsburg, The Netherlands.
Agent: **Kenny Lane Nurseries Pty Ltd,** Monbulk, VIC.

'Barbaresco'
Application No: 96/175 Accepted: 19 Aug 1996.
Applicant: **Vletter & Den Haan Beheer BV,** Rijnsburg, The Netherlands.
Agent: **Kenny Lane Nurseries Pty Ltd,** Monbulk, VIC.

'Bergamo'
Application No: 96/176 Accepted: 19 Aug 1996.
Applicant: **Vletter & Den Haan Beheer BV,** Rijnsburg, The Netherlands.
Agent: **Kenny Lane Nurseries Pty Ltd,** Monbulk, VIC.

'Bernini'
Application No: 96/177 Accepted: 19 Aug 1996.
Applicant: **Vletter & Den Haan Beheer BV,** Rijnsburg, The Netherlands.
Agent: **Kenny Lane Nurseries Pty Ltd,** Monbulk, VIC.

MARGUERITE DAISY
Argyranthemum frutescens

'Summer Eyes'
Application No: 96/184 Accepted: 2 Sep 1996.
Applicant: **Protected Plant Promotions & The University of Sydney, Plant Breeding Institute**, Cobbitty, NSW.
Agent: **John D. Oates, Plant Breeding Institute,** Cobbitty, NSW.

'Sugar Lace'
Application No: 96/185 Accepted: 2 Sep 1996.
Applicant: **Protected Plant Promotions & The University of Sydney, Plant Breeding Institute**, Cobbitty, NSW.
Agent: **John D. Oates, Plant Breeding Institute,** Cobbitty, NSW.

'Sugar Button'
Application No: 96/186 Accepted: 2 Sep 1996.
Applicant: **Protected Plant Promotions & The University of Sydney, Plant Breeding Institute**, Cobbitty, NSW.
Agent: **John D. Oates, Plant Breeding Institute,** Cobbitty, NSW.

PASPALUM
Paspalum atratum

'Suerte' syn **Hi-Gane**
Application No: 95/213 Accepted: 3 Jul 1996.
Applicant: **The University of Florida Agriculture Experiment Station,** Florida, USA.
Agent: **Progressive Seeds Pty Ltd.,** Mt. Crosby, QLD.

PEACE LILY
Spathiphyllum hybrid

'Frederick' syn **SPFR**
Application No: 96/127 Accepted: 3 Jul 1996.
Applicant: **Daniel Cornelis,** Melsen, Belgium.
Agent: **Burbank Biotechnology Pty Ltd,** Wyong, NSW.

PEACH
Prunus persica

'French Lady' syn **C88.83PB**
Application No: 96/133 Accepted: 2 Sep 1996.
Applicant: **Domaine de Castang SA & Arsene Maillard,** Bergerac, France.
Agent: **Fleming's Nurseries & Associates Pty Ltd,** Monbulk, VIC.

'Tribute' syn **2083.PJ**
Application No: 96/134 Accepted: 22 Jul 1996.
Applicant: **Domaine de Castang SA & Arsene Maillard,** Bergerac, France.
Agent: **Fleming's Nurseries & Associates Pty Ltd,** Monbulk, VIC.

PERENNIAL RYEGRASS
Lolium perenne

'Outback'
Application No: 96/156 Accepted: 6 Aug 1996.
Applicant: **Ian Aberdeen,** Kilmore, VIC.

'Jamborina'
Application No: 96/157 Accepted: 6 Aug 1996.
Applicant: **Ian Aberdeen,** Kilmore, VIC.

'Prolong'
Application No: 96/198 Accepted: 11 Sep 1996.
Applicant: **Valley Seeds Pty Ltd,** Alexandra, VIC.

POTATO
Solanum tuberosum

'Redgem'
Application No: 96/146 Accepted: 5 Aug 1996.
Applicant: **Caithness Potato Breeders Ltd,** London, UK.
Agent: **LS and JL Eldridge,** Cuthbert, WA.

'Argos'
Application No: 96/147 Accepted: 5 Aug 1996.
Applicant: **Caithness Potato Breeders Ltd,** London, UK.
Agent: **LS and JL Eldridge,** Cuthbert, WA.

'Symfonia' syn **Wal 82-161**
Application No: 96/196 Accepted: 11 Sep 1996.
Applicant: **Coop "de Z.P.C." B.A.,** Leeuwarden, The Netherlands.
Agent: **Harvest Moon,** Forth, TAS.

'RZ 85-618'
Application No: 96/197 Accepted: 20 Sep 1996.
Applicant: **Coop "de Z.P.C." B.A.,** Leeuwarden, The Netherlands.
Agent: **Harvest Moon,** Forth, TAS.

PROTEA
Protea hybrid

'Pink Cupid'
Application No: 96/128 Accepted: 4 Jul 1996.
Applicant: **Sue and Simon Smith,** Cherry Gardens, SA.

'Pink Pride'
Application No: 96/129 Accepted: 4 Jul 1996.
Applicant: **Sue and Simon Smith,** Cherry Gardens, SA.

'White Mist'
Application No: 96/130 Accepted: 4 Jul 1996.
Applicant: **Sue and Simon Smith,** Cherry Gardens, SA.

'White Night'
Application No: 96/131 Accepted: 4 Jul 1996.
Applicant: **Sue and Simon Smith,** Cherry Gardens, SA.

ROSE
Rosa

'Vision'
Application No: 96/139 Accepted: 22 Jul 1996.
Applicant: **Stratford's Roses,** Oakville, NSW.

'Meirevolt'
Application No: 96/094 Accepted: 3 Jul 1996.
Applicant: **Meilland International,** Le Luc en Provence, France.
Agent: **Ross Roses,** Willunga, SA.

'Carol Ann' syn **Wel Car**
Application No: 96/033 Accepted: 3 Jul 1996.
Applicant: **Eric Welsh Roses,** Erina, NSW.
Agent: **Rose and Fruit Tree Ltd,** West Gosford, NSW.

'Hansug' syn **Sugar Plum Fairy**
Application No: 96/123 Accepted: 1 Jul 1996.
Applicant: **Falk Hannemann,** Box Hill Nth, VIC.

'Betsy Taaffe'
Application No: 96/187 Accepted: 2 Sep 1996.
Applicant: **David Taafee**, Elwood, VIC.

'MORredfar' syn **Fairy Carpet**
Application No: 96/181 Accepted: 9 Sep 1996.
Applicant: **Ralph S Moore**, Visalia, California, USA.
Agent: **John Gordon,** Wamboin, NSW.

'Delivour' syn **Imperatrice Farah**
Application No: 96/195 Accepted: 9 Sep 1996.
Applicant: **Pepinieres & Roseraies Georges Delbard SA,** Commentry, France.
Agent: **The Perfumed Garden,** Moorooduc, VIC.

SOYBEAN
Glycine max

'Cawana' syn NH3-30-1
Application No: 96/122 Accepted: 28 Jun 1996.
Applicant: **The State of Queensland through its Department of Primary industries**, Brisbane, QLD and **Grains Research and Development Corporation**, Queen Victoria Terrace, ACT.

ST. AUGUSTINE GRASS
Stenotaphrum secundatum

'SS100'
Application No: 96/158 Accepted: 7 Aug 1996.
Applicant: **Sod Solutions,** Mt. Pleasant, South Carolina, USA.
Agent: **Davies Collison Cave Patent Attorneys,** Melbourne VIC.

SUBTERRANEAN CLOVER
Trifolium subterraneum

'Breeding Line Khan 7.6'
Application No: 96/144 Accepted: 1 Aug 1996.
Applicant: **CSIRO Division of Plant Industry,** Canberra, ACT.

SUTERA
Sutera cordata

'Knysna Hills'
Application No: 96/124 Accepted: 1 Jul 1996.
Applicant: **Amanda Fick,** George East, South Africa.
Agent: **R W Rother,** Emerald, VIC.

'Eight Bells'
Application No: 96/125 Accepted: 1 Jul 1996.
Applicant: **Amanda Fick,** George East, South Africa.
Agent: **R W Rother,** Emerald, VIC.

'Blizzard' syn White Falls
Application No: 96/126 Accepted: 1 Jul 1996.
Applicant: **R W Rother,** Emerald, VIC.

TALL BLUEBELL
Wahlenbergia stricta

'Bonnie Blue'
Application No: 96/141 Accepted: 25 Jul 1996.
Applicant: **B A and D M Vieritz**, Greenbank, QLD.
Agent: **Australian Native Flora Promotions Pty Ltd,** Limpinwood, NSW.

TEA TREE
Leptospermum hybrid

'Bywong Merinda'
Application No: 96/142 Accepted: 25 Jul 1996.
Applicant: **Peter Ollerenshaw,** Bungendore, NSW.

THUJA (WHITE CEDAR)
Thuja occidentalis

'Star-Struck'
Application No: 96/132 Accepted: 19 Jul 1996.
Applicant: **Ronald Arthur Andrew,** Oyster Bay, NSW.

VILLOSE JOINTVETCH
Aeschynomene villosa

'Kretschmer' syn CPI 93621
Application No: 96/193 Accepted: 4 Sep 1996.
Applicant: **The State of Queensland through its Department of Primary Industries**, Brisbane, QLD.

'Reid' syn CPI 91209
Application No: 96/194 Accepted: 4 Sep 1996.
Applicant: **The State of Queensland through its Department of Primary Industries**, Brisbane, QLD.

WARATAH
Telopea speciosissima

'Songlines' syn No. 20
Application No: 96/135 Accepted: 22 Jul 1996.
Applicant: **Yellow Rock Native Nursery Pty Ltd,** Winmalee NSW 2777.

WAX FLOWER
Chamelaucium uncinatum

'Cascade Brilliance'
Application No: 96/200 Accepted: 20 Sep 1996.
Applicant: **A. J. Newport & Son Pty Ltd,** Winmalee, NSW.

WHEAT
Triticum aestivum

'Monad' syn 2280-2/1
Application No: 96/143 Accepted: 14 Aug 1996.
Applicant: **Wrightson Seeds Ltd,** Christchurch, NZ.
Agent: **Wrightson Seeds (Aust) Pty Ltd,** Seven Hills, NSW.

'QT5793'
Application No: 96/178 Accepted: 27 Aug 1996.
Applicant: **The State of Queensland through its Department of Primary Industries,** Brisbane, QLD.

'Mawson' syn QT7274
Application No: 96/179 Accepted: 27 Aug 1996.
Applicant: **The State of Queensland through its Department of Primary Industries,** Brisbane, QLD.

'Arnhem' syn QT4299
Application No: 96/180 Accepted: 27 Aug 1996.
Applicant: **The State of Queensland through its Department of Primary Industries,** Brisbane, QLD.

WHITE CLOVER
Trifolium repens

'Tillman 2'
Application No: 96/191 Accepted: 3 Sep 1996.
Applicant: **New Zealand pastoral Agriculture Research Institute Ltd,** Palmerston North, NZ.
Agent: **AgResearch Grasslands,** Albury, NSW.

DESCRIPTIONS

Key to definitions/symbols/words used in the short descriptions

*	=	variety(s) used as comparator(s)
Agent	=	Australian agent acting on behalf of an applicant (usually where application is from overseas.
DUS	=	Distinctiveness, Uniformity and Stability
LSD	=	Least Significant Difference
LSD/sig	=	The numerical value for the LSD (at P(0.01) is in the first column and the level of significance between the candidate and the relevant comparator in subsequent columns
ns	=	not significant
RHS	=	Royal Horticultural Society Colour Chart (Chip Number)
std deviation	=	Standard deviation of the sample
syn	=	synonym
UPOV	=	International Union for the Protection of New Plant Varieties
+	=	When used in conjunction with an RHS colour, '+' indicates a notional extension of a colour series when a precise match can not be made. It is most commonly used when the adjacent colour chip(s) are of a different sequence
#	=	Values followed by the same letter are not significantly different at P(0.01)
Origin	=	unless otherwise stated the female parent of the cross precedes the male parent
Φ	=	variety(s) for which PBR has been granted

ALSTROEMERIA
Alstroemeria aurea

'Ibiza' syn 88-19-15

Application No: 96/006 Accepted: 29 Jan 1996.
Applicant: **Konst Alstroemeria BV.,** Nieuwveen. The Netherlands.
Agent: **Maxiflora Pty. Ltd.** Monbulk VIC.

Description (Table 1, Figure 34) Leaf: straight, elliptic. Inflorescence: umbel number medium. Flower: red purple, size medium, tepal spread medium. Outer tepals: red purple (RHS 67B) at the centre and margins, RHS 67A at the apex and RHS 65B at the base; stripes absent. Inner lateral tepals: yellow (RHS 5A) to yellow white (RHS 158D) at centre, red purple (RHS 67B at the apex and red purple (RHS 65A) at the base; stripes, number medium, size medium to large. Inner median tepal: red purple (RHS 67B) at the apex and centre and RHS 65A at the base; stripes absent. Stamens: anthers greenish. Ovary: styles orange red; stigma orange red, spots absent.

Origin Controlled pollination: unknown x unknown. Breeder: Konst Alstroemeria, Nieuwveen, Holland.

Selection criteria: flower colour. Propagation: tissue culture.

Comparative Trial Comparators: 'Sydney'Φ, 'Stalilas'Φ. Location: Wageningen, Holland. Flowers descriptions: plants grown in red kraznozem soils, multispan greenhouse; Feb- Aug, flowers cut in bud and transported to Devon Meadows, VIC and placed in solution of 5% sugar and 1 ml/L chlorine bleach. Flowers assessed five days later.

Prior Applications and Sales

Country	Year	Status	Name Applied
Holland	1992	Granted	'Ibiza'

Description: **David Nichols,** Devon Meadows, VIC.

Table 1 Alstroemeria varieties

	'Ibiza'	*'Sydney'Φ	*'Stalilas'Φ
STEM			
height	medium	medium	medium to tall
thickness	thick	medium	medium to thick
density of foliage	medium	medium to dense	
LEAF			
length	medium	medium	long
thickness	medium	medium	broad
INFLORESCENCE			
length of umbels	medium	short	long
pedicel length	medium	medium	long
OUTER TEPAL			
shape	obovate	obovate	broad obovate
main colour	red purple	red purple	red purple
RHS	67B	71B	71C
INNER LATERAL TEPAL			
tepal shape	obovate	obovate	elliptic
number of stripes	few to medium	many	many
yellow colour RHS	158D, 5A	3A	155B
OTHER FLOWER CHARACTERISTICS			
filament colour	orange red	red purple	red purple
anther colour	greenish	yellow green	purple
spots on stigma	absent	absent	present
anthocyanin in ovary	weak	medium	strong

'Stamond' syn Diamond

Application No: 95/216 Accepted: 18 Sep 1995.
Applicant: **Van Staavaren BV, Aalsmeer,** Holland.
Agent: **Tesselaar Nominees Pty Ltd**, Silvan, VIC.

Description (Table 2, Figure 33) Leaf: straight, narrow ovate, length long and breadth broad. Inflorescence: umbel number medium, length long. Flower: white. Outer tepals: white (RHS 155D), stripes few. Inner lateral tepals: yellow (RHS 4C) at centre, white (RHS 155D) at margins and base. Inner median tepal: white (RHS 155D), stripes few. Stamens: spots absent. Ovary: anthocyanin absent; styles white; stigma spots absent.

Origin
Controlled pollination: Breeder's reference '4447-2' x breeder's reference '5325-1'. Breeder: Van Staarvaren BV, Aalsmeer, Holland. Selection criteria: flower colour. Propagation: tissue culture.

Comparative Trial Comparator: 'Stabuwit'Φ. Location: Aalsmeer, Holland. Conditions: Spaced rows 3-4 plants per row, sandy clay soil pH 6.0, ambient Jun - Jan. Flowers descriptions: plants grown in red kraznozem soils, multispan greenhouse; Feb to Aug, flowers cut in bud and transported to Devon Meadows, VIC and placed in solution of 5% sugar and 1ml/L chlorine bleach. Flowers assessed five days later.

Prior Applications and Sales

Country	Year	Status	Name Applied
Germany	1992	Granted	'Stamond'
Holland	1992	Granted	'Stamond'
England	1992	Granted	'Stamond'
France	1993	Granted	'Stamond'
Italy	1994	Pending	'Stamond'
USA	1994	Pending	'Stamond'

First sold Holland 1993.

Description: **David Nichols,** Devon Meadows, VIC.

Table 2 *Alstroemeria* varieties

	'Stamond'	* 'Stabuwit'Φ
STEM		
height	tall	medium
thickness	medium to thick	medium to thick
density of foliage	dense	medium
INFLORESCENCE		
pedicel length	medium	long
FLOWER		
size	large	medium
spread of tepals	broad	medium
OUTER TEPAL		
shape	broad obovate	obovate
INNER LATERAL TEPAL		
tepal shape	elliptic	obovate
number of stripes	medium	many
stripe Thickness	medium	small
OTHER FLOWER CHARACTERISTICS		
filament colour	white	pink
anther colour	greenish	dark grey
stigma colour	white	pink

'Stasach' syn Sacha

Application No: 95/214 Accepted: 18 Sep 1995.
Applicant: **Van Staavaren BV,** Aalsmeer, Holland.
Agent: **Tesselaar Nominees Pty Ltd**, Silvan, VIC.

Description (Table 3, Figure 32) Leaf: straight, narrow ovate, length medium and breadth broad. Inflorescence: umbel number medium, pedicel length short. Flower: red. Outer tepals: obovate, red (RHS 42B), stripes absent. Inner lateral tepals: elliptic, yellow (RHS 15A) at centre, at margins and base; size large. Inner median tepal: red (RHS 42B), stripes absent. Stamens: filaments red, spots absent. Ovary: anthocyanin absent; styles red; stigma red.

Origin Controlled pollination: Breeders reference '85T305-1' x breeders reference '86F679-1'. Breeder: Van Staarvaren BV, Aalsmeer, Holland. Selection criteria: flower colour. Propagation: tissue culture.

Comparative Trial Comparator: 'Stadutia'Φ. Location: Aalsmeer, Holland. Conditions: Spaced rows 3-4 plants per row, sandy clay soil pH 6.0, ambient Jun to Jan. Flowers descriptions; plants grown in red kraznozem soils, multispan greenhouse; February to August, flowers cut in bud and transported to Devon Meadows, VIC and placed in solution of 5% sugar and 1 ml/L chlorine bleach. Flowers assessed five days later.

Prior Applications and Sales

Country	Year	Status	Name Applied
Germany	1993	Pending	'Stasach'
Holland	1993	Pending	'Stasach'

First sold Holland 1994.

Description: **David Nichols,** Devon Meadows, VIC.

Table 3 *Alstroemeria* varieties

	'Stasach'	*'Stadutia'Φ
STEM		
height	medium	tall
thickness	medium	medium to thick
density of foliage	medium	thick
INFLORESCENCE		
length of umbels	short	long
FLOWER		
size	medium to large	large
spread of tepals	medium	large
OUTER TEPAL		
colour RHS	42B	43A
INNER LATERAL TEPAL		
number of stripes	medium	many
yellow colour RHS	15A	9A
OTHER FLOWER CHARACTERISTICS		
anther colour	dark grey	purplish
spots on stigma	absent	present

'Statiren' syn Irena

Application No: 95/215 Accepted: 18 Sep 1995.
Applicant: **Van Staavaren BV,** Aalsmeer, Holland.
Agent: **Tesselaar Nominees Pty Ltd**, Silvan, VIC.

Description (Table 4, Figure 31) Plant: height medium. Leaf: length medium. Inflorescence: umbel number medium, length long; pedicel length medium. Flower: red to red purple, size large, tepal spread broad. Outer tepals: broad obovate, red (RHS 48A) in the centre, red purple (RHS 68C) at the apex and white (RHS 155D) at the margins, stripes few. Inner lateral tepals: elliptic, yellow (RHS 3C) at centre, red (RHS 48C) at the apex and red purple (RHS 68C) at margins and base; stripe size medium. Inner median tepal: red purple (RHS 68C) at centre and white (RHS 155D) at apex and base, stripes absent. Stamens: filaments spots absent; anthers greenish.

Origin Controlled pollination: Breeder's reference '86T1684-1'x breeder's reference '87G1069-2'. Breeder: Van Staarvaren BV, Aalsmeer, Holland. Selection criteria: flower colour. Propagation: tissue culture.

Comparative Trial Comparator: 'Staverpi'Φ. Location: Aalsmeer, Holland. Conditions: spaced rows 3-4 plants per row, sandy clay soil pH 6.0, ambient Jun to Jan. Flowers descriptions; plants grown in red kraznozem soils, multispan greenhouse; Feb -Aug, flowers cut in bud and transported to Devon Meadows, VIC and placed in solution of 5% sugar and 1 ml/L chlorine bleach. Flowers assessed five days later.

Prior Applications and Sales

Country	Year	Status	Name Applied
Germany	1994	Pending	'Statiren'
Holland	1994	Pending	'Statiren'

Description: **David Nichols,** Devon Meadows, VIC.

Table 4 *Alstroemeria* varieties

	'Statiren'	* 'Staverpi'Φ
STEM		
thickness	medium to thick	medium
density of foliage	medium	thick
LEAF		
thickness	broad	medium
shape of blade	narrow ovate	elliptic
longitudinal axis of blade	straight	recurved
FLOWER		
main colour	red to red purple	red
OUTER TEPAL		
main colour	red	red
RHS	48A	55C
INNER LATERAL TEPAL		
number of stripes	medium	many
yellow colour RHS	3C	15B
OTHER FLOWER CHARACTERISTICS		
filament colour	pale pink	orange
style colour	pale pink	salmon pink
stigma colour	pale pink	salmon pink
spots on stigma	present	absent
anthocyanin in ovary	absent	weak

'Vienna'

Application No:96/013 Accepted: 5 Mar 1996.
Applicant: **Konst Alstroemeria BV.** Nieuwveen. The Netherlands.
Agent: **Maxiflora Pty. Ltd.** Monbulk VIC.

Description (Table 5, Figure 35) Plant: height medium; foliage medium to dense. Leaf: straight, narrow elliptic. Inflorescence: umbel number medium; pedicel length medium. Flower: white and pink, tepal spread medium. Outer tepals: broad obovate, white (RHS 155D) at the base and margins, red purple (RHS 70B) at the centre and red purple (RHS 70D) at the apex; stripes absent. Inner lateral tepals: broad elliptic, yellow (RHS 12A) at the centre, red purple (RHS 70D) at the apex and white (RHS 155D) at the base; stripes, number medium, size medium to large. Inner median tepal: white (RHS 155D) at the apex and centre and yellow (RHS 12A) towards the margins; stripes present. Stigma: red purple.

Origin Controlled pollination: unspecified x unspecified. Breeder: Konst Alstroemeria, Nieuwveen, Holland. Selection criteria: flower colour. Propagation: tissue culture.

Comparative Trial Comparators: 'Cavalier'Φ, 'Stalbel'Φ. Location: Wageningen, Holland. Flowers descriptions; plants grown in red kraznozem soils, multispan greenhouse; February to August, flowers cut in bud and transported to Devon Meadows, VIC and placed in solution of 5% sugar and 1 ml/L chlorine bleach. Flowers assessed five days later.

Prior Applications and Sales.

Country	Year	Status	Name Applied
Holland	1991	Granted	'Vienna'

First sold Holland 1992.

Description: **David Nichols,** Devon Meadows, VIC.

Table 5 *Alstroemeria* varieties

	'Vienna'	*'Cavalier'Φ	*'Stalbel'Φ
STEM			
thickness	thick	medium	medium
LEAF			
length	short	long	long
thickness	narrow	broad	broad
INFLORESCENCE			
length of umbels	medium	medium to long	medium
FLOWER			
size	medium	medium to large	medium

Table 5 *Alstroemeria* Varieties - continued

OUTER TEPAL			
main Colour	white and pink	white and pink	white and pink
RHS	155D, 70B	155D, 68A-B	158B-C, 65A-B
stripes	absent	absent	present
INNER LATERAL TEPAL			
tepal shape	broad elliptic	elliptic	narrow obovate
stripe thickness	medium	medium	small to medium
yellow colour RHS	12A	14A	12A-B
INNER MEDIAN TEPAL			
yellow colour	present	absent	absent
OTHER FLOWER CHARACTERISTICS			
filament colour	red purple	red purple	pink
filament spots	absent		
anther colour	brownish	yellow green	yellow green
style colour	red purple	red purple	pink
spots on stigma	absent	present	present
anthocyanin in ovary	weak	absent	weak

ANNUAL RYEGRASS
Lolium multiflorum

'Flanker'

Application No: 95/226 Accepted 3 Oct 1995.
Applicant: **Agriseeds Holdings Ltd,** Christchurch, New Zealand.
Agent: **Heritage Seeds Pty Ltd,** Melbourne, VIC.

Description (Table 6) Plant: A diploid short-rotation forage ryegrass, growth habit erect. Stem: length longer , Flag leaf: wide. Awn: long.

Origin Controlled pollination: of single plant selections from within old pasture collection. Breeder: Agriseeds Holdings Ltd, Christchurch, New Zealand. Selection criteria: speed of establishment, winter vigour, wide leaves, erect growth habit, crown rust resistance. Propagation: by open pollination through four generations.

Comparative Trial Comparators: 'LM71', 'Concord', 'Conker', 'Conquest', 'Cordura', 'Corvette', 'Exalta'. Location: Rutherglen, VIC 1995. Conditions: ambient field conditions, plastic mulched to prevent weed growth, sprinkler irrigated. Trial design: 100 plants space planted in a randomised block design with 10 replicates. Measurements: on all 100 spaced plants.

Table 6 *Lolium* varieties

	'Flanker'	'LM71'	*'Concord'	*'Conker'	*'Conquest	*'Cordura'Φ	*'Corvette'	*'Exalta'
SPRING GROWTH HABIT(1-prostrate, 9 erect) LSD(P≤0.01) = 0.49								
mean	4.18a	3.69ab	3.57bc	3.23bc	3.59b	3.60b	3.03c	1.99d
std deviation	1.42	1.00	1.44	1.01	1.19	1.10	1.15	0.78
MEAN HEADING DAYS (day 1=1/9/95) LSD(P≤0.01) = 2.68								
mean	65c	72ab	71ab	70b	73a	66c	58d	58d
std deviation	5.0	7.0	7.0	7.0	7.0	9.0	8.0	7.0
FLAG LEAF LENGTH (cm) - 25 days after mean heading LSD(P≤0.01) = 2.29								
mean	19.34abc	20.76a	20.03ab	19.90ab	20.81a	16.08d	17.02cd	17.92bcd
std deviation	4.56	5.40	5.09	4.61	5.94	4.70	4.12	4.47
FLAG LEAF WIDTH (mm) - 25 days after mean heading LSD(P≤0.01) = 0.74								
mean	9.52a	8.55b	8.66b	8.63	9.13ab	8.36b	8.40b	8.43b
std deviation	1.33	1.16	1.49	1.08	1.62	1.35	1.28	1.47
STEM LENGTH (cm) - 25 days after mean heading LSD(P≤0.01) = 9.35								
mean	106.69a	107.68a	113.00a	114.28a	106.37ab	97.33b	92.91b	95.89b
std deviation	17.20	18.11	19.71	15.79	24.46	18.50	11.50	16.04
NODE NUMBER LSD(P≤0.01) = 0.62								
mean	6.13b	7.04a	6.99a	6.51ab	6.64ab	6.32b	6.19b	5.93b
std deviation	0.93	1.27	1.42	1.40	1.18	1.25	1.13	1.18
SPIKE DENSITY (cm) LSD(P≤0.01) = 1.08								
mean	12.21b	11.94b	13.36ab	13.06ab	12.91ab	12.41b	11.91b	13.65a
std deviation	2.36	2.23	2.39	2.54	2.77	2.71	2.21	2.82
AWN LENGTH (mm) LSD(P≤0.01) = 0.65								
mean	3.40a	3.26a	2.82ab	2.25b	2.40b	2.10b	2.18b	2.32b
std deviation	1.70	1.72	1.47	1.61	1.61	1.39	1.24	1.53

Values followed by the same letter are not significantly different (at P≤0.01) according to Duncan's Multiple Range Test.

Prior Applications and Sales

Country	Year	Status	Name Applied
New Zealand	1994	Pending	'Flanker'

First sold New Zealand 1995.

Description: **FE Wilson, New Zealand Agriseeds Limited,** Christchurch, New Zealand.

'LM71'

Application No: 95/231 Accepted 3 Oct 1995.
Applicant: **Agriseeds Holdings Ltd,** Christchurch, New Zealand.
Agent: **Heritage Seeds Pty Ltd,** Melbourne, VIC.

Description (Table 6) Plant: A diploid short-rotation forage ryegrass, late heading. Stem: number of nodes high. Flag leaf: size large. Glume: size smaller. Awn: size large.

Origin Controlled pollination: of single plant selections from the cross 'Concord' x 'Tribune'. Breeder: Agriseeds Holdings Ltd, Christchurch, New Zealand. Selection criteria: winter vigour, heading date, crown rust resistance. Propagation: by open pollination through four generations.

Comparative Trial Comparators: 'Concord', 'Conker', 'Conquest', 'Cordura'Φ, 'Corvette', 'Exalta'. Location: Rutherglen, VIC 1995. Conditions: ambient field conditions, plastic mulched to prevent weed growth, sprinkler irrigated. Trial design: 100 plants space planted in a randomised block design with 10 replicates. Measurements: on all 100 spaced plants.

Prior Applications and Sales

Country	Year	Status	Name Applied
New Zealand	1995	Pending	LM71

Description: **FE Wilson, New Zealand Agriseeds Limited,** Christchurch, New Zealand.

ANTHURIUM
Anthurium hybrid

'Ruth Morat' syn Lady Ruth

Application No: 94/131 Accepted: 31 May 1994.
Applicant: **Oglesby Plant Laboratories Inc.** Altha, Florida, USA.
Agent: **Burbank Biotechnology Pty Ltd.** Tuggerah, NSW.

Description (Table 7, Figure 61) Plant: rhizomatous, evergreen, perennial. Leaf: ovate, tip acuminate, base changing from obtuse to more truncate with plant maturity, slightly asymmetric, horizontal at maturity, length at maturity 260mm-330mm, width 150mm-200mm, yellow green RHS 146A - RHS 147A; veins prominent near base, sunken elsewhere; sheath 100mm-180mm long. Inflorescence: conspicuous. Spathe: ovate, base cordate, tip acuminate, width 44mm-75mm, length 65mm-115mm, red RHS 51A - RHS 53C; spadix length 45mm-70mm, width 5mm-9mm, red RHS 56D-RHS 56A when young.

Origin Controlled pollination: *Anthurium antioquiense* x 'Rotolante # 1'. Breeder: Denis W Rotolante, Homestead, Florida, USA. Selection criteria: growth habit, flower colour. Propagation: tissue culture.

Comparative Trial Comparator: 'Lady Jane'. Location: Wellington Point, Brisbane, QLD. Conditions: plants raised in composted pinebark medium in 200mm pots under 80% shade cloth, standard commercial fertilisers added. Trial design: random selection. Measurements: random sampling of sixteen flowers of each variety.

Prior Applications and Sales Nil.

Description: **Ross Worrall,** Gosford, NSW.

Table 7 *Anthurium* varieties

	'Ruth Morat'	*'Lady Jane'
SPATHE LENGTH (mm)		
mean	76.8	54.44
std deviation	10.2	7.16
LSD/sig	7.69	P≤0.01
SPATHE WIDTH (mm)		
mean	50.1	28.1
std deviation	4.35	3.58
LSD/sig	3.46	P≤0.01
SPADIX WIDTH (mm)		
mean	6.19	5.31
std deviation	0.63	1.10
LSD/sig	0.73	P≤0.01
SPADIX TIP COLOUR (young)		
colour	red	red
RHS	54A-54B	37A

AUSTROMYRTUS
Austromyrtus inophloia

'Aurora'

Application No: 95/134 Accepted: 8 May 1995.
Applicant: **Don and Fay Macintyre,** Nambour, QLD.
Agent: **Tony and Juna Kebblewhite,** Verrierdale, QLD.

Description (Table 8, Figure 59) Plant: upright shrub. Leaf: larger than the normal species, richly coloured purplish new growth.

Origin Mutant seedling: *Austromyrtus inophloia.* Breeder: Don and Fay Macintyre, Nambour, QLD. Selection Criteria: upright growth, larger leaves, bright colour of new growth. Propagation: cuttings through 5 generations.

Comparative Trial Comparator: *Austromyrtus inophloia.* Location: Florabundance Nursery, Verrierdale, QLD Apr 1995 - Oct 1995. Conditions: plants raised in a mixture of composted pine bark and sand in pots in open beds. Trial Design: 60 plants arranged in four rows. Measurements: taken from each plant.

Prior Applications and Sales Nil.

Description: **David Hockings,** Maleny, QLD.

Table 8 *Austromyrtus* varieties

	'Aurora'	*Austromyrtus inophloia
PLANT HEIGHT (mm)		
mean	655	399
std deviation	68.5	72.5
LSD/sig	63.8	P≤0.001
LEAF LENGTH PLUS PETIOLE (mm)		
mean	41.1	23.1
std deviation	2.29	2.53
LSD/sig	2.18	P≤0.001
PETIOLE LENGTH (mm)		
mean	2.00	1.78
std deviation	0.00	0.253
LSD/sig	0.160	P≤0.001
LEAF WIDTH (mm)		
mean	17.9	10.0
std deviation	1.14	0.566
LSD/sig	0.81	P≤0.001
INTERNODE LENGTH (mm) one from top		
mean	21.2	13.9
std deviation	4.13	2.32
LSD/sig	3.02	P≤0.001
INTERNODE LENGTH(mm) two from top		
mean	21.0	13.1
std deviation	3.71	2.15
LSD/sig	2.73	P≤0.001
INTERNODE LENGTH (mm) three from top		
mean	21.4	12.3
std deviation	3.59	2.50
LSD/sig	2.80	P≤0.001
NEW GROWTH COLOUR (RHS)		
	greyed purple 187A	greyed red 181 B

BLACK LOCUST
Robinia pseudoacacia

'Lace Lady'

Application No: 95/120 Accepted: 4 Apr 1995.
Applicant: **PJ Cunningham Family Trust,** Whenuapai, Auckland, New Zealand.
Agent: **Fleming's Nurseries & Associates Pty Ltd,** Monbulk, VIC.

Description (Table 9, Figure 60) Plant: deciduous, perennial dwarf shrub, erect to semi-erect angular growth, slow growing. Stem: branches zig-zag, internode length very irregular, spines very small; wood new dark greeny-brown, mature grey furrowed bark, many lenticels, pubescence absent. Leaflet: upper side light green, lower side even lighter; twisted and curled upwards, ovoid, rounded base, rounded to retuse apex (sometimes mucronate), margin entire, pubescence weak, number 11 per pinnate leaf, arrangement opposite, mean length 33mm, mean width 23mm; very close mixture of mature and immature compound leaves. Flower/Fruit: none observed.

Origin Spontaneous seed mutation: *Robinia pseudoacacia.* Breeder: PJ Cunningham, Auckland, New Zealand 1985. Selection criteria: short zig-zag internode growth, twisted foliage, miniature spines, overall dwarfism. Propagation: grafting onto *Robinia* rootstock through several generations.

Comparative Trial Comparators: 'Tortuosa', 'Umbraculifera'. Location: Rural View Nursery, Kumeu, New Zealand 1985 - 1991. Conditions: Plants grown outdoors under ambient conditions; plants age 4 categories, 2 and 8 months, 2 and 5 years. Trial design: random sampling. Measurements: 20 plants selected at random.

Prior Applications and Sales

Country	Year	Status	Name Applied
England	-	-	'Lace Lady'
France	-	-	'Twisty Baby'
USA	-	-	'Twisty Baby'
New Zealand	1991	Granted	'Lace Lady'

First sold England, France, USA 1992.

Description: **Graham Fleming** and **Meaghan McDowell , Flemings Nurseries,** Monbulk, VIC.

Table 9 *Robinia* varieties

	'Lace Lady'	*'Tortuosa'	*'Umbraculifera'
GROWTH HABIT			
	semi-erect compact-dwarf	erect tall	less compact
GROWTH RATE			
	very slow	slow	n/a
CHARACTER OF INTERNODES			
	crooked, angular	n/a	straight, tending
FLOWERING			
	non-flowering	flowering	rarely if ever

BRACHYSCOME
Brachyscome angustifolia

'Mardi Gras'

Application No: 95/099 Accepted: 27 Mar 1995.
Applicant: **Evan Clucas,** Wandin, VIC.

Description (Table 10, Figure 63) Plant: compact perennial herb. Leaf: lanceolate, deeply lobed. Flower head: small, broad ray florets, obcordate apex, mean number of rays per head 18.1, Ray floret: colour upper surface RHS 80B (purple violet).

Origin Seedling selection: *Brachyscome angustifolia* pink. Breeder: Evan Clucas, Kuranga Native Nursery, Wandin, VIC 1991. Selection criteria: flower colour and form. Propagation: vegetative through 10 generations.

Comparative Trial Comparators: *Brachyscome angustifolia* pink, *Brachyscome angustifolia* mauve. Location: Wandin, VIC Oct 1995- Feb 1996. Conditions: plants

were propagated in a pinebark/sand commercial potting mix in 150mm pots. Trial design: unreplicated rows. Measurements: on 10 random specimens.

Prior Applications and Sales Nil.

Description: **Mark Lunghusen,** Croydon, VIC.

Table 10 *Brachyscome* varieties

	'Mardi Gras'	*Brachyscome angustifolia pink	*Brachyscome angustifolia mauve
PLANT HEIGHT (mm)			
mean	62.31	73.98	53.69
std deviation	8.61	7.71	9.18
LSD/sig	10.52	P≤0.01	P≤0.01
PEDUNCLE LENGTH (mm)			
mean	63.96	69.19	52.18
std deviation	6.62	9.33	9.21
LSD/sig	10.41	ns	P≤0.01
NUMBER OF RAYS PER FLOWER HEAD			
mean	18.1	20.5	18.7
std deviation	1.28	1.50	2.00
LSD/sig	1.81	P≤0.01	ns
WIDTH OF RAY FLORET(mm)			
mean	2.63	1.35	1.98
std deviation	0.39	0.20	0.17
LSD/sig	1.24	P≤0.01	P≤0.01
RAY FLORET LENGTH:WIDTH RATIO			
mean	2.66	5.52	3.92
std deviation	0.41	0.78	0.50
LSD/sig	0.79	P≤0.01	P≤0.01
RAY FLORET			
apex	obcordate	obcordate	obcordate
colour upper surface			
	purple violet	purple	violet
RHS	80B	78C	85A

BRACTEANTHA
Bracteantha bracteata

'Gold 'n' Bronze'
Application No: 95/098 Accepted: 21 Mar 1995.
Applicant: **WR & GM Elliot,** Heathmont, VIC.

Description (Table 11, Figure 36) Plant: semi compact, perennial, spreading. Leaf: linear to lanceolate, upper surface deep green (RHS 137A). Flower head: globular with papery texture, peduncles erect and long, whorls many.

Origin Seedling selection: 'Diamond Head'. Breeder; WR Elliot, Heathmont VIC 1990. Selection criteria: growth habit, flower size and display. Propagation: cuttings through many generations.

Comparative Trial Comparator: 'Diamond Head'. Location: Heathmont, VIC Sep 1995 - Feb 1996. Conditions: plants were propagated in pinebark/sand potting mix in pots. Trial design: unreplicated rows. Measurements: 10 random samples.

Prior Applications and Sales Nil.

Description: **Mark Lunghusen,** Croydon, VIC.

Table 11 *Bracteantha* varieties

	'Gold 'n' Bronze'	*'Diamond Head'
PLANT HEIGHT (cm)		
mean	22.2	13.65
std deviation	2.37	1.45
LSD/sig	2.53	P≤0.01
LEAF COLOUR	green	yellow green
RHS	137A	147A
LEAF WIDTH (mm)		
mean	4.73	7.37
std deviation	1.49	0.71
LSD/sig	2.49	P≤0.01
PEDUNCLE LENGTH (cm)		
mean	20.10	14.11
std deviation	3.38	2.88
LSD/sig.	3.81	P≤0.01
HEAD DIAMETER AT BUD BURST (mm)		
mean	28.35	12.66
std deviation	3.04	1.80
LSD/sig	3.81	P≤0.01
NUMBER OF WHORLS OF BRACTS PER HEAD		
mean	12.62	5.60
std deviation	1.60	0.52
LSD/sig	1.55	P≤0.01
FLOWER COLOUR (RHS)		
disc colour	orange (24A)	orange (24A)
ray floret at base	yellow orange (12A)	yellow orange (14B)
ray floret at tip	orange (24A)	yellow orange (14B)
involucral bracts	greyed orange (167D)	orange (20A)

CAATINGA STYLO
Stylosanthes

'Primar' syn CPI 92838B
Application No: 96/160 Accepted: 27 Aug 1996.
Applicant: **CSIRO Division of Tropical Crops and Pastures,** St Lucia, QLD.

Description (Table 12, Figure 64) Plant: diploid (2n=20) perennial, early (160 days) prolific flowering, Stem: branching dense and above 10cm height, thickness of main stem 18.5mm, length of longest stem 100 cm; anthocyanin pigmentation medium, hairs whitish restricted to one side. Leaflet: long, narrow and hairless, Terminal leaflet: length 12.7mm, width 4.5mm, l/b ratio high, long stipule horn lateral bristles, prominent bristles on leaflets and stipules, medium pigmentation in stipules and floral bracts. Seed: cream coloured.

Origin Introduction and Selection: World germplasm collection, 'CPI 92838B' from Serro, Brazil at Townsville and 27 other locations in QLD. Breeder: Mr LA Edye, CSIRO Davies Laboratory, QLD. Selection criteria: early

flowering. adaptation to heavy and fertile soils, resistance to frost, drought and anthracnose disease.

Comparative Trial Comparator: 'Seca' (*Stylosanthes scabra* 2n=40). Location: Lansdown, QLD 1995-1996. Conditions: 14 weeks old seedlings transplanted 21 Nov 1995; 'Weed-mat' used to prevent weed ingress, field grown plants irrigated for establishment. Trial design: randomised block design with 10 replicates, single row plots of 10 plants with plant spacing 1.0m x 2.0m. Measurements: on all plants. Flowering time recorded twice weekly Dec 1995- Jun 1996; morphological data Apr - May 1996.

Prior Applications and Sales Nil.

Description: **LA Edye, CSIRO Division of Tropical Crops and Pasture,** Townsville, QLD

'Unica' syn CPI 110361

Application No: 96/161 Accepted: 27 Aug 1996.
Applicant: **CSIRO Division of Tropical Crops and Pastures,** St Lucia, QLD.

Description (Table 12, Figure 64) Plant: diploid (2n=20) perennial, early (156 days) prolific flowering, Stem: branching dense and above 10cm height, thickness of main stem 18.5mm, length of longest stem 99 cm; anthocyanin pigmentation absent, hairs whitish restricted to one side. Leaflet: hairless but with prominent bristles; Terminal leaflet: length 12.7mm, width 4.5mm, horn with long lateral bristles, prominent bristles on leaflets and stipules, stipules and floral bracts very slight anthocyanin pigmentation. Seed: cream coloured.

Origin Introduction and Selection: World germplasm collection ;'CPI 110361' from Andarai, Brazil at Townsville and 27 other locations in QLD. Breeder: Mr LA Edye, CSIRO Davies Laboratory, QLD. Selection criteria: early flowering. adaptation to heavy and fertile soils, resistance to frost, drought and anthracnose disease.

Comparative Trial Comparators: 'Primar', 'Seca' (*Stylosanthes scabra* 2n=40). Location: Lansdown, QLD 1995-1996. Conditions: 14 weeks old seedlings transplanted 21 Nov 1995; 'Weed-mat' used to prevent weed ingress. field grown plants irrigated for establishment. Trial design: randomised block design with 10 replicates, single row plots of 10 plants with plant spacing 1.0m x 2.0m. Measurements: on all plants. Flowering time recorded twice weekly Dec 1995- Jun 1996; morphological data Apr - May 1996.

Prior Applications and Sales Nil.

Description: **LA Edye, CSIRO Division of Tropical Crops and Pasture,** Townsville, QLD

Table 12 *Stylosanthes* varieties

	'Unica'	*'Primar'	*'Seca'
PLANT	diploid (2n=20)	diploid (2n=20)	tetraploid (2n=40)

Table 12 *Stylosanthes* Varieties - continued

BRANCHES AT 10cm ABOVE GROUND LSD(P≤0.01) = 2.3			
mean	21a	18b	10c
std deviation	5.8	5.7	3.1
LONGEST STEM LENGTH (cm) LSD(P≤0.01) = 5.0			
mean	99b	100b	121a
std deviation	13	12	17
MAIN STEM THICKNESS (mm) LSD(P≤0.01) = 1.02			
mean	18.5a	18.5a	15.4b
std deviation	3.1	3.7	3.6
ANTHOCYANIN ON ONE SIDE OF STEMS			
	absent	medium	marked
LEAF			
leaflet shape	lanceolate	lanceolate	ovate
anthocyanin in stipules			
	very slight	medium	marked
stipule horn lateral bristles			
	present	present	absent
TERMINAL LEAFLET LENGTH (mm) LSD(P≤0.01) = 0.49			
mean	12.7b	13.2b	14.5a
std deviation	1.7	1.5	1.2
BREADTH (mm) LSD(P≤0.01) = 0.19			
mean	4.58b	4.48b	6.81a
std deviation	0.61	0.51	0.56
LENGTH:BREADTH RATIO LSD(P≤0.01) = 0.06			
mean	2.78b	2.95a	2.14c
std deviation	0.20	0.18	0.21
ANTHOCYANIN IN INFLORESCENCE BRACTS			
	very slight	marked	medium
SEED COLOUR			
	cream	cream	light brown

Values followed by the same letter are not significantly different (P≤0.01) according to Duncan's Multiple Range Test.

CHRYSANTHEMUM
Chrysanthemum

'Alcala'

Application No: 95/055 Accepted: 6 Jun 1995.
Applicant: **Dirk Pieters,** Oostnieuwrke, Belgium.
Agent: **Seaglades Nursery,** Mt Martha, VIC.

Description (Figure 25) Plant: very short. Stem: very thin to thin, internode very short, green (RHS 146D). Lateral shoot: weak to medium, angle medium. Leaf: very narrow, l:b ratio high, serration medium, green (RHS 137A), lower lobe long, margins of sinus between lateral lobes converging. Inflorescence: corymbiform, semi-double, number of rows of ray florets low to medium, involucral bracts absent. Ray floret: longitudinal axis straight, smooth, colour of majority outer side red purple (RHS 70B), inner side red purple (RHS 70A). Corolla: very short to short, cross section flat, keel absent, tip dentate. Disc: colour before anther dehiscence yellow, at anther dehiscence yellow. Disc florets: distribution type 4, tubular. Receptacle: dome raised. Mean number of lateral shoots produced after stopping 11.

Origin Controlled pollination: 'Prisma' x 'Rostoline'. Breeder: Dirk Pieters, Oostnieuwrke, Belgium. Selection criteria: flower colour, growth habit, flower size and display. Propagation: cuttings through many generations.

Comparative Trial based on overseas data from the Plant Variety Rights Offices in Belgium and UK and verified by the Qualified Person in Australia. The comparative trial was conducted in Belgium in 20 cm pots, outdoors from Jun to early Aug, then in glasshouse until late Sep, minimum temperature 15.50C. The qualified person considers 'Dark Cherie' as the closest comparator available in Australia.

Prior Applications and Sales

Country	Year	Status	Name Applied
Belgium	1991	Granted	'Alcala'
Holland	1993	Granted	'Alcala'
Germany	1994	Granted	'Alcala'
France	1993	Granted	'Alcala'

Description: **Mark Lunghusen,** Croydon, VIC.

'Cobra'

Application No: 95/061 Accepted: 6 Jun 1995.
Applicant: **Dirk Pieters,** Oostnieuwrke, Belgium.
Agent: **Seaglades Nursery,** Mt Martha, VIC.

Description (Figure 26) Plant: very short, flowering season early to medium. Stem: very thin to thin, internode very short, yellow green (RHS 147A). Lateral shoot: medium, angle medium. Leaf: very short, very narrow to narrow, l:b ratio medium to high, serration medium to coarse, green (RHS 147A), lower lobe short, margins of sinus between lateral lobes parallel. Inflorescence: corymbiform, semi-double, number of rows of ray florets medium to high, involucral bracts absent. Ray floret: longitudinal axis of majority straight, textured, colour of majority outer side greyed orange (RHS 167C), inner side greyed purple (RHS 163B). Corolla: short , cross section convex, keel absent, tip rounded. Disc: colour before anther dehiscence yellow, colour at anther dehiscence yellow. Disc florets: distribution type 2, tubular. Receptacle: conical, flat. Mean number of lateral shoots produced after stopping 10.

Origin Controlled pollination: 'Rossa Bronze' x 'Oberix'. Breeder: Dirk Pieters, Oostnieuwrke, Belgium. Selection criteria: flower colour, growth habit, flower size and display. Propagation: cuttings through many generations.

Comparative Trial based on overseas data from the Plant Variety Rights Offices in Belgium and UK and verified by the Qualified Person in Australia. The comparative trial was conducted in Belgium in 20 cm pots, outdoors from Jun to early Aug, then in glasshouse until late Sep, minimum temperature 15.5°C. The qualified person considers that there are no varieties of similar characteristics available as the closest comparators in Australia.

Prior Applications and Sales

Country	Year	Status	Name Applied
Belgium	1992	Granted	'Cobra'
Holland	1994	Granted	'Cobra'
Germany	1994	Granted	'Cobra'
France	1994	Granted	'Cobra'

First sold Belgium 1992.

Description: **Mark Lunghusen,** Croydon, VIC.

'Red Elani'

Application No: 95/057 Accepted: 6 Jun 1995.
Applicant: **Dirk Pieters,** Oostnieuwrke, Belgium.
Agent: **Seaglades Nursery,** Mt Martha, VIC.

Description (Figure 27) Plant: very short to short, flowering season medium. Stem: medium to strong, internode very short to short , yellow green (RHS 146B). Lateral shoot: medium, angle medium. Leaf: very short, narrow, l:b ratio medium, serration medium, green (RHS 137A), lower lobe usually absent, margins of sinus between lateral lobes converging. Inflorescence: corymbiform, semi-double, number of rows of ray florets high, involucral bracts absent. Bud: colour of outer side of ray florets yellow (RHS 4D). Ray floret: longitudinal axis of majority incurving, outer row straight, textured, number of ray florets medium to high (206 per flower head), colour of majority outer side yellow white (RHS 158A) streaked with greyed purple (RHS 187D) between the ribs and the margin, inner side greyed purple (RHS 185B), outer side of inner florets yellow white (RHS 158A) tinged with greyed purple (RHS 187D), inner side greyed purple (RHS 187C). Corolla: very short to short , cross section convex, keel absent, tip rounded. Disc florets: distribution type 4, short to medium, tubular. Receptacle: conical, raised. Mean number of lateral shoots produced after stopping 10.

Origin Spontaneous mutation: 'Veria Pink'. Breeder: Dirk Pieters, Oostnieuwrke, Belgium. Selection criteria: flower colour, growth habit, flower size and display. Propagation: cuttings through many generations.

Comparative Trial based on overseas data from the Plant Variety Rights Offices in Belgium and UK and verified by the Qualified Person in Australia. The comparative trial was conducted in Belgium in 20 cm pots, outdoors from Jun to early Aug, then in glasshouse until late Sep, minimum temperature 15.5°C. The qualified person considers 'Papillion' as the closest comparator available in Australia.

Prior Applications and Sales

Country	Year	Status	Name Applied
Belgium	1991	Granted	'Red Elani'
Holland	1994	Granted	'Red Elani'
Germany	1994	Granted	'Red Lobell'
France	1994	Granted	'Red Lobell'

First sold Belgium 1992.

Description: **Mark Lunghusen,** Croydon, VIC.

'Samco'

Application No: 95/056 Accepted: 6 Jun 1995.
Applicant: **Dirk Pieters,** Oostnieuwrke, Belgium.
Agent: **Seaglades Nursery,** Mt Martha, VIC.

Description (Figure 28) Plant: very short to short, flowering season medium. Stem: strong to very strong, internode very short to short , yellow green (RHS 144C). Lateral shoot: medium, angle small. Leaf: very short, very narrow to narrow, l:b ratio medium, serration fine to medium, green (RHS 137A), lower lobe short, margins of sinus between lateral lobes converging. Inflorescence: corymbiform, double, number of rows of ray florets medium to high, involucral bracts absent. Bud: colour of outer side of ray florets yellow (RHS 4D). Ray floret: longitudinal axis incurving, textured, number of ray florets medium to high (206 per flower head), colour of majority outer side greyed orange (RHS 167C), inner side greyed orange (RHS 163B). Corolla: short, cross section concave, keel absent, tip dentate. Disc florets: distribution type 2, very short, tubular. Receptacle: dome flat. Mean number of lateral shoots produced after stopping 9.

Origin Spontaneous mutation: 'Veria Dark'. Breeder: Dirk Pieters, Oostnieuwrke, Belgium. Selection criteria: flower colour, growth habit, flower size and display. Propagation: cuttings through many generations.

Comparative Trial based on overseas data from the Plant Variety Rights Offices in Belgium and UK and verified by the Qualified Person in Australia. The comparative trial was conducted in Belgium in 20 cm pots, outdoors from Jun to early Aug, then in glasshouse until late Sep, minimum temperature 15.5°C. The qualified person considers 'Nicole' as the closest comparator available in Australia.

Prior Applications and Sales

Country	Year	Status	Name Applied
Belgium	1991	Granted	'Samco'

Description: **Mark Lunghusen,** Croydon, VIC.

'Tripoli'

Application No: 95/059 Accepted: 6 Jun 1995.
Applicant: **Dirk Pieters,** Oostnieuwrke, Belgium.
Agent: **Seaglades Nursery,** Mt Martha, VIC.

Description (Figure 29) Plant: very short, flowering season medium. Stem: strong, internode very short, yellow green (RHS 146B). Lateral shoot: medium to strong, angle medium. Leaf: very short, very narrow to narrow, l:b ratio high, serration fine to medium, green (RHS 137A), lower lobe length medium, margins of sinus between lateral lobes parallel. Inflorescence: corymbiform, semi-double, number of rows of ray florets low to medium, involucral bracts absent. Bud: colour of outer side of ray florets yellow (RHS 4D). Ray floret: longitudinal axis of majority straight, outer row straight, textured, number of ray florets medium to high (206 per flower head), colour of majority outer side red purple (RHS 74D), inner side red purple (RHS 74A-74B). Corolla: very short to short , cross section concave, keel two present, tip dentate. Disc florets: distribution type 4, short to medium, tubular. Receptacle: conical, raised. Mean number of lateral shoots produced after stopping 8.

Origin Controlled pollination: 'Prisma' x 'Rozemarie'. Breeder: Dirk Pieters, Oostnieuwrke, Belgium. Selection criteria: flower colour, growth habit, flower size and display. Propagation: cuttings through many generations.

Comparative Trial based on overseas data from the Plant Variety Rights Offices in Belgium and UK and verified by the Qualified Person in Australia. The comparative trial was conducted in Belgium in 20 cm pots, outdoors from Jun to early Aug, then in glasshouse until late Sep, minimum temperature 15.5°C. The qualified person considers that there are no varieties of similar characteristics available as the closest comparators in Australia.

Prior Applications and Sales

Country	Year	Status	Name Applied
Belgium	1991	Granted	'Tripoli'
Holland	1993	Granted	'Tripoli'
Germany	1993	Granted	'Tripoli'
France	1994	Granted	'Tripoli'

First sold Belgium 1991.

Description: **Mark Lunghusen,** Croydon, VIC.

'Veria Dark'

Application No: 95/060 Accepted: 6 Jun 1995
Applicant: **Dirk Pieters,** Oostnieuwrke, Belgium.
Agent: **Seaglades Nursery,** Mt Martha, VIC.

Description (Figure 30) Plant: very short to short, flowering medium to late. Stem: thin internode very short , colouration present. Leaf: very short, narrow, l:b ratio medium to high, serration fine to medium, lower lobe long, margins of sinus between lateral lobes converging. Inflorescence: corymbiform, double, involucral bracts absent. Ray floret: longitudinal axis of majority flat, colour of majority outer side yellow (RHS 6D-6C) at tip, inner side yellow (RHS 6B-6C). Corolla: short , keel absent, tip dentate, textured. Disc florets: distribution type 3, tubular. Receptacle: conical, raised.

Origin Spontaneous mutation: 'Veria'. Breeder: Dirk Pieters, Oostnieuwrke, Belgium. Selection criteria: flower colour, growth habit, flower size and display. Propagation: cuttings through many generations.

Comparative Trial based on overseas data from the Plant Variety Rights Offices in Belgium and UK and verified by the Qualified Person in Australia. The comparative trial was conducted in Belgium in 20 cm pots, outdoors from Jun to early Aug, then in glasshouse until late Sep, minimum temperature 15.5°C. The qualified person considers that there are no varieties of similar characteristics available as the closest comparators in Australia.

Prior Applications and Sales

Country	Year	Status	Name Applied
Belgium	1988	Granted	'Veria Dark'
Holland	1992	Granted	'Veria Dark'
Germany	1991	Granted	'Veria Dark'
France	1991	Granted	'Veria Dark'

Description: **Mark Lunghusen,** Croydon, VIC.

CONEBUSH (DRUMSTICKS)
Isopogon anemonifolius

'Woorikee 2000'

Application No: 96 /145 Accepted: 5 Aug 1996.
Applicant: **Austraflora Pty Ltd**, Montrose, VIC.

Description (Table 13, Figure 70).Plant:dwarf compact perennial shrub wider than high. Stem: lignotuberous, branching near base. Leaf: dense, variously divided, petiolate. Flower: terminal, sometimes axillary, colour RHS 6B, lightly perfumed .

Origin Seedling selection: *Isopogon anemonifolius.* Breeder: Bill Molyneux, Austraflora Pty Ltd, Montrose, VIC. Selection criteria: dwarf plant habit. Propagation: vegetative over three generations.

Comparative Trial Comparator : *Isopogon anemonifolius.* Location: Montrose ,VIC. Jun 1995 - Aug 1996. Conditions : plants grown in 20cm pots in standard soilless potting medium in the open. Trial design: unreplicated. Measurements: 10 random samples from each of 10 plants.

Prior Applications and Sales Nil.

Description: **Bill Molyneux**, Montrose, VIC.

Table 13 *Isopogon* varieties

	'Woorikee 2000'	**Isopogon anemonifolius*
PLANT HEIGHT (cm at 440 days)		
mean	11.9	60.1
std deviation	1.73	9.56
LSD/sig	8.2	P≤0.01
PLANT WIDTH (cm)		
mean	20.3	54.1
std deviation	2.8	6.65
LSD/sig	5.0	P≤0.01
STEM LENGTH (cm)		
mean	8.4	36.3
std deviation	2.05	8.18
LSD/sig	4.3	P≤0.01
LEAF LENGTH (mm)		
mean	44.3	59.5
std deviation	6.25	11.56
LSD/sig	6.5	P≤0.01
LEAF WIDTH (mm)		
mean	41.6	34.9
std deviation	9.50	13.17
LSD/sig	8.5	ns

Table 13 *Isopogon* Varieties - continued

NUMBER OF SECONDARY LEAF LOBES		
mean	7.9	13.2
std deviation	2.75	6.90
LSD/sig	3.90	P≤0.01
LEAF		
colour	green	green
RHS	139A	137C
colour of new growth	margins tipped red (RHS 59A) with anthocyanin soon becoming green	all leaves coloured grey purple (RHS 183D) to grey red (RHS 180A) with anthocyanin mostly in upper one third of stems

COTTON
Gossypium hirsutum

'Rainbow - 34'

Application No: 95/273 Accepted: 20 Nov 1995.
Applicant: **Kamila Ulman and Professor VN Fursov,** Ashgabat, Turkmenistan.
Agent: **John Collins,** Sydney, NSW.

Description (Table 14, Figure 80) Plant: habit spreading; foliage density medium. Leaf: partially deciduous, shape palmate pubescence on midrib medium; gossypol glands and nectaries present. Flower: colour cream. Boll: elliptic; peduncle length 22 mm. Fibre: length 1.13 ins; colour beige (RHS 165C-165D).

Origin Reciprocal cross: progenies of '0 5476-II' *(Gossypium barbadense)* x progenies of '0 7631-II' *(Gossypium hirsutum);* progenies with beige coloured lint intermated and the seeds of these were treated with 0.1% ethylene-imine(Aziridine)*;* at M3, plants were selected and the best sibs were further "top crossed". Breeder: Professor VM Fursov, Ashgabat, Turkmenistan. Selection criteria: beige lint colour and self defoliation. Propagation: seed.

Comparative Trial Comparator:'Sicala-34'Φ. Location: Greenhouse of the Commonwealth Quarantine Station, Rydalmere 1994-1995 and Plant Breeding Institute, The University of Sydney, Narrabri, 1995-1996. Conditions: field trial under ambient field conditions. Trial design: randomised complete blocks with 4 replicates with spacing between rows 70cm and plants within row 40cm. Measurements: done on 95 random specimens from each variety; fibre quality tested in 5 replicates by the Namoi Cotton Cooperative Laboratory.

Prior Applications and Sales Nil.

Description: **NF Derera, "ASAS" Agricultural Science Advisory Service,** Winston Hills, NSW.

Table 14 *Gossypium* varieties

	'Rainbow - 34'	*'Sicala - 34'ⓟ
LEAF WIDTH (mm)		
mean	161.92	142.10
std deviation	24.25	18.53
LSD/sig	7.98	P≤0.01
BOLL HEIGHT (mm)		
mean	52.11	47.45
std deviation	4.8	5.76
LSD/sig	1.97	P≤0.01
PEDUNCLE LENGTH (mm)		
mean	22.12	27.37
std deviation	3.69	7.15
LSD/sig	2.09	P≤0.01
FIBRE COLOUR(RHS)		
	beige (165C-165D)	white
FIBRE MICRONAIRE VALUE		
mean	2.66	3.52
std deviation	0.18	0.38
LSD/sig	0.15	P≤0.01
FIBRE UNIFORMITY INDEX (%)		
mean	83.26	87.8
std deviation	2.4	1.15
LSD/sig	3.24	P≤0.01

'Rainbow - 39'

Application No: 95/160 Accepted: 6 Jun 1995.
Applicant: **Kamila Ulman and Professor VN Fursov**, Ashgabat, Turkmenistan.
Agent: **John Collins,** Sydney, NSW.

Description (Table 15, Figure 79) Plant: habit spreading, height medium to tall, foliage density dense, fruiting branches long. Leaf: deciduous at maturity, shape palmate, pubescence on midrib present; gossypol glands and nectaries present. Flower: colour cream. Boll: elliptic; peduncle long, length 26.24 mm. Fibre: length 1.26ins when ginned with the "shark-skin" method, uniformity index 89.26%, elongation 5.9%, strength 32.24 g/tex, micronaire value 2.7.

Origin Induced mutation by radiation: seeds of 'Turkmenistan Genetic 1' followed by pedigree method of selection. Breeder: Professor VM Fursov, Ashgabat, Turkmenistan. early maturing, self defoliating, long staple length.

Comparative Trial Comparator:'Sicala-34'ⓟ. Location: Greenhouse of the Commonwealth Quarantine Station, Rydalmere 1994-1995 and Plant Breeding Institute Farm, Narrabri, The University of Sydney 1995-1996. Conditions: greenhouse/field trial. Trial design: randomised complete blocks with 4 replicates with spacing between rows 70cm and plants within row 40cm. Measurements: done on 95 random specimens from each variety; fibre quality tested in 5 replicates by the Namoi Cotton Co-operative Laboratory.

Prior Applications and Sales Nil.

Description: **N.F. Derera, "ASAS" Agricultural Science Advisory Service,** Winston Hills, NSW.

Table 15 *Gossypium* varieties

	'Rainbow - 39'	*'Sicala - 34'ⓟ
LEAF WIDTH (mm)		
mean	161.72	142.10
std deviation	21.76	18.53
LSD/sig	7.98	P≤0.01
BOLL HEIGHT (mm)		
mean	52.79	47.45
std deviation	4.73	5.76
LSD/sig	1.97	P≤0.01
FIBRE LENGTH (mm)		
mean	1.26	1.14
std deviation	0.018	0.025
LSD/sig	0.061	P≤0.01
FIBRE STRENGTH (g/tex)		
mean	32.24	46.58
std deviation	2.51	2.51
LSD/sig	7.73	P≤0.01
FIBRE MICRONAIRE VALUE		
mean	2.67	3.52
std deviation	0.11	0.38
LSD/sig	0.15	P≤0.01

DIASCIA
Diascia

'Apricot Cherub'

Application No: 95/181 Accepted: 12 Jul 1993.
Applicant: **Robert Swane, Swane Bros Pty Ltd,** Dural, NSW.

Description (Table 16, Figure 37) Plant: dwarf, ground covering soft-wooded perennial, growth habit upright. Leaf: shape narrow lanceolate, margin serrate, green upper surface RHS 139A, lower RHS 138D. Flower: large, borne on terminal racemes, large incurving spurs, colour salmon (RHS 29D) with a yellow zone with a dark red margin and a series of minute purple spots on either side of the keel petal. Pollen: colour yellow.

Origin Spontaneous mutation: 'Pink Cherub' (a cultivar with affinities to *Diascia integerrima*). Breeder: Robert Swane, Dural, NSW. Selection criteria: compact ground covering habit, attractive flower colour. Propagation: vegetative.

Comparative Trial Comparators: 'Elliot's Form', 'Pink Cherub'. Location: Dural, NSW, May 1995 - Oct 1995. Conditions: plants propagated by stem cuttings under intermittent mist in potting mix. After 12 weeks potted into standard 140mm diameter pots into potting mix with added fertilizers, grown outdoors at temperatures in the approximate range of 10-25°C. Overhead watering by hand was given as required. Trial design: unreplicated row of 10 plants. Measurements: on all 10 plants.

Prior Applications and Sales
First sold Australia 1995.

Description: **Angus Stewart,** Narrara, NSW.

'Jacqueline's Joy'

Application No: 93/212 Accepted: 30 Sep 1993.
Applicant: **Hector D Harrison,** South Humberside, England.
Agent: **Robert Swane, Swane Bros Pty Ltd,** Dural, NSW.

Description (Table 16, Figure 39) Plant: dwarf, ground covering soft-wooded perennial, growth habit compact. Leaf: shape oblanceolate, margin serrate, green upper surface RHS 137C, lower RHS 138B. Flower: large, borne on terminal racemes, short outcurving spurs, colour mauve (RHS 68B) with a yellow zone with a dark red margin and a series of minute purple spots on either side of the keel petal. Pollen: colour yellowish-green.

Origin Controlled pollination: 'Lilac Belle' x 'Hopley's Apricot' (*Diascia barbarae*). Breeder: Hector D Harrison. Selection criteria: compact ground covering habit, attractive flower colour. Propagation: vegetative.

Comparative Trial Comparators: 'Twinkle', 'Ruby Field'. Location: Dural, NSW, May 1995 - Oct 1995. Conditions: plants propagated by stem cuttings under intermittent mist in potting mix. After 12 weeks potted into standard 140mm diameter pots into potting mix with added fertilizers, grown outdoors at temperatures in the approximate range of 10-25°C. Overhead watering by hand was given as required. Trial design: unreplicated row of 10 plants. Measurements: on all 10 plants.

Prior Applications and Sales
First sold England 1993, Australia 1994.

Description: **Angus Stewart,** Narrara, NSW.

'Joyce's Choice'

Application No: 93/213 Accepted: 30 Sep 1993.
Applicant: **Hector D Harrison,** South Humberside, England.
Agent: **Robert Swane, Swane Bros Pty Ltd,** Dural, NSW.

Description (Table 16, Figure 40) Plant: dwarf, ground covering soft-wooded perennial, growth habit spreading. Leaf: shape oblanceolate, margin serrate, green upper surface RHS 137A, lower RHS 138B. Flower: large, borne on terminal racemes, long outcurving spurs, colour salmon (RHS 29D) with a yellow zone with a dark red margin and a series of minute purple spots on either side of the keel petal. Pollen: colour yellow.

Origin Controlled pollination: 'Salmon Supreme' x 'Hopley's Apricot' (*Diascia barbarae*). Breeder: Hector D Harrison. Selection criteria: compact ground covering habit, attractive flower colour. Propagation: vegetative.

Comparative Trial Comparators: 'Strawberry Sundae'Φ, 'Elliot's Form'. Location: Dural, NSW, May 1995 - Oct 1995. Conditions: plants propagated by stem cuttings under intermittent mist in potting mix. After 12 weeks potted into standard 140mm diameter pots into potting mix with added fertilizers, grown outdoors at temperatures in the approximate range of 10-25°C. Overhead watering by hand was given as required. Trial design: unreplicated row of 10 plants. Measurements: on all 10 plants.

Prior Applications and Sales
First sold England 1993, Australia 1994.

Description: **Angus Stewart,** Narrara, NSW.

'Lady Valerie'

Application No: 94/168 Accepted: 25 Jul 1994.
Applicant: **Hector D Harrison,** South Humberside, England.
Agent: **Robert Swane, Swane Bros Pty Ltd,** Dural, NSW.

Description (Table 16, Figure 42) Plant: dwarf, ground covering soft-wooded perennial, growth habit spreading. Leaf: shape oblanceolate, margin serrate, green upper surface RHS 137B, lower RHS 138B. Flower: small, borne on terminal racemes, short outcurving spurs, colour salmon (RHS 33D) with a yellow zone without a dark red margin and a series of minute purple spots on either side of the keel petal. Pollen: colour green.

Origin Controlled pollination: 'Salmon Supreme' x 'Hopley's Apricot'. Breeder: Hector D Harrison. Selection criteria: compact ground covering habit, attractive flower colour. Propagation: vegetative.

Comparative Trial Comparators: 'Strawberry Sundae'Φ, 'Elliot's Form'. Location: Dural, NSW, May 1995 - Oct 1995. Conditions: plants propagated by stem cuttings under intermittent mist in potting mix. After 12 weeks potted into standard 140mm diameter pots into potting mix with added fertilizers, grown outdoors at temperatures in the approximate range of 10-25°C. Overhead watering by hand was given as required. Trial design: unreplicated row of 10 plants. Measurements: on all 10 plants.

Prior Applications and Sales
First sold England 1993, Australia 1994.

Description: **Angus Stewart,** Narrara, NSW.

'Lilac Belle'

Application No: 93/214 Accepted: 30 Sep 1993.
Applicant: **Hector D Harrison,** South Humberside, England.
Agent: **Robert Swane, Swane Bros Pty Ltd,** Dural, NSW.

Description (Table 16, Figure 41) Plant: dwarf, ground covering soft-wooded perennial, growth habit compact. Leaf: shape ovate, margin serrate, green upper surface RHS 137B, lower RHS 138B. Flower: small, borne on terminal racemes, short incurving spurs, colour mauve (RHS 75A-75B) with a yellow zone with a dark red margin and a series of minute purple spots on either side of the keel petal. Pollen: colour green.

Table 16 *Diascia* varieties

	'Salmon Supreme'	'Lilac Mist'	'Jacqueline's Joy'	'Joyce's Choice'	'Lilac' Belle'	'Lady' Valerie'	'Apricot Cherub'	*'Elliot's Form'	*'Twinkle'	*'Ruby Fields'	*'Strawberry Sundae'Φ	*'Pink Cherub'
PLANT HEIGHT(mm) LSD (P≤0.01) = 21.71												
mean	194.0e	186.0e	186.0e	201.0e	161.0f	201.0e	286.0c	437.0a	235.0d	315.0b	284.0c	284.0c
std deviation	15.77	32.39	14.30	17.92	15.95	16.63	25.03	24.97	11.78	17.16	20.66	21.71
PLANT WIDTH(mm) LSD (P≤0.01) = 21.19												
mean	245.0h	394.0b	265.0fgh	337.0c	261.0gh	304.0d	281.0efg	317.0cd	293.0de	320.5cd	416.0a	284.0def
std deviation	21.73	31.34	14.34	13.37	19.12	17.76	28.85	11.59	18.29	14.99	20.11	15.78
PETIOLE LENGTH(mm) LSD (P≤0.01) = 0.78												
mean	4.7a	1.0f	3.0cd	2.5de	4.1ab	2.9d	3.7bc	3.5bc	1.8e	1.0f	1.8e	3.3bcd
std deviation	0.95	0.00	0.81	0.53	0.74	0.57	0.82	1.18	0.79	0.00	0.63	0.67
LEAF LENGTH(mm) LSD (P≤0.01) = 2.37												
mean	19.1d	27.3b	16.3ef	15.7ef	18.9d	15.5f	22.4c	32.8a	16.7def	23.3c	18.0de	26.2b
std deviation	1.20	3.56	1.34	1.06	2.02	1.72	2.07	4.02	1.64	2.11	0.82	2.70
LEAF WIDTH(mm) LSD (P≤0.01) = 1.82												
mean	17.0b	17.9b	12.2c	12.0c	11.6cd	11.4cd	8.1e	21.2a	11.4cd	12.0c	10.0d	7.9e
std deviation	0.94	2.64	1.62	1.15	2.41	1.58	0.74	2.30	1.90	1.76	0.82	0.99
LEAF												
margin	serrate	serrate	serrate	serrate	serrate	serrate	serrate	highly serrate	serrate	serrate	serrate	serrate
shape	oblanceolate	ovate	oblanceolate	oblanceolate	ovate	oblanceolate	narrow lanceolate	cordate	cordate	lanceolate	lanceolate	narrow lanceolate
colour-(RHS)												
upper	137C	137C	137A	137A	137B	137B	139A	137A	137B	137C	137C	137C
lower	138C	138B	138B	138B	138B	138B	138B	138B	138B	147D	138B	138B
FLOWER WIDTH(mm) LSD (P≤0.01) = 1.41												
mean	17.6e	15.5f	20.3bc	20.1bc	13.4g	19.3cd	24.7a	18.5bc	18.3bc	21.3a	20.2a	23.4a
std deviation	0.97	1.51	1.57	1.73	0.84	1.06	1.89	1.18	0.67	1.25	1.55	1.17
FLOWER LENGTH(mm) LSD (P≤0.01) = 1.41												
mean	19.1e	15.0g	20.8cd	20.6d	13.4h	20.0de	25.1a	22.1bc	17.1f	22.7b	19.9de	24.4a
std deviation	0.87	0.67	1.32	0.97	1.65	1.15	1.52	1.37	1.45	2.00	1.29	0.70
FLOWER SPUR LENGTH(mm) LSD (P≤0.01) = 0.85												
mean	5.5d	6.1d	5.7d	10.1b	3.1e	10.7b	13.3a	7.8c	5.3d	9.8b	8.1c	10.3b
std deviation	0.97	0.57	1.06	0.57	0.57	1.06	0.95	1.03	0.67	0.63	0.57	0.48
FLOWER COLOUR (RHS)												
	39C	73D	68B	29D	75A-75B	33D	29D	48D	74C	50C	73B	48B-48C

FLOWER											
spurs	curved outwards	curved inwards	curved outwards	curved outwards	curved inwards	curved outwards	curved inwards	curved inwards	point straight down	point straight down	curved inwards
sunken yellow eye zone with dark red margin	present	present	present	present	present	absent	present	present	present	present	present
patch of minute purple spots on either side of keel petal	present	present	present	present	present	absent	absent*	absent	absent#	absent	absent
pollen colour	yellowish green	green	yellowish green	yellow	green	green	yellow	green	yellow	yellow	yellow

+ sunken yellow eye zone present but with a number of black spots
* a patch of prominent purple spots in the middle of the keel petal present
# a patch of small black spots on either side of the keel petal present

Values followed by the same letter are not significantly different (P≤0.01) according to Duncan's Multiple Range Test.

Origin Controlled pollination: *Diascia lilacina* x 'Ruby Field' (*Diascia barbarae).* Breeder: Hector D Harrison. Selection criteria: compact ground covering habit, attractive flower colour. Propagation: vegetative.

Comparative Trial Comparators: 'Strawberry Sundae'Φ, 'Twinkle'. Location: Dural, NSW, May 1995 - Oct 1995. Conditions: plants propagated by stem cuttings under intermittent mist in potting mix. After 12 weeks potted into standard 140mm diameter pots into potting mix with added fertilizers, grown outdoors at temperatures in the approximate range of 10-25°C. Overhead watering by hand was given as required. Trial design: unreplicated row of 10 plants. Measurements: on all 10 plants.

Prior Applications and Sales
First sold England 1993, Australia 1994.

Description: **Angus Stewart,** Narrara, NSW.

'Lilac Mist'

Application No: 93/209 Accepted: 29 Sep 1993.
Applicant: **Hector D Harrison,** South Humberside, England.
Agent: **Robert Swane, Swane Bros Pty Ltd,** Dural, NSW.

Description (Table 16, Figure 38) Plant: dwarf, ground covering soft-wooded perennial, growth habit spreading. Leaf: shape ovate, margin serrate. Flower: small, borne on terminal racemes, short incurving spurs, colour mauve (RHS 73D) with a yellow zone with a dark red margin and a series of minute purple spots on either side of the keel petal. Pollen: colour green.

Origin Controlled pollination: 'Lilac Belle' x *Diascia rigescens.* Breeder: Hector D Harrison. Selection criteria: compact ground covering habit, attractive flower colour. Propagation: vegetative.

Comparative Trial Comparators: 'Twinkle', 'Ruby Field'. Location: Dural, NSW, May 1995 - Oct 1995. Conditions: plants propagated by stem cuttings under intermittent mist in potting mix. After 12 weeks potted into standard 200mm diameter pots into potting mix with added fertilizers, grown outdoors at temperatures in the approximate range of 10-25°C. Overhead watering by hand was given as required. Trial design: unreplicated row of 10 plants. Measurements: on all 10 plants.

Prior Applications and Sales
First sold England 1993, Australia 1994.

Description: **Angus Stewart,** Narrara, NSW.

'Salmon Supreme'

Application No: 93/198 Accepted: 9 Sep 1993.
Applicant: **Hector D Harrison,** South Humberside, England.
Agent: **Robert Swane, Swane Bros Pty Ltd,** Dural, NSW.

Description (Table 16, Figure 43) Plant: dwarf, ground covering soft-wooded perennial, growth habit compact.

Leaf: shape oblanceolate, margin serrate, green upper surface RHS 137C, lower RHS 138C. Flower: large, borne on terminal racemes, short outcurving spurs, colour salmon (RHS 39C) with a yellow zone with a dark red margin and a series of minute purple spots on either side of the keel petal. Pollen: colour yellowish green.

Origin Controlled pollination: 'Ruby Field' (*Diascia barbarae*) x *Diascia stachyoides*. Breeder: Hector D Harrison. Selection criteria: compact ground covering habit, attractive flower colour. Propagation: vegetative.

Comparative Trial Comparator: 'Elliot's Form'. Location: Dural, NSW, May 1995 - Oct 1995. Conditions: plants propagated by stem cuttings under intermittent mist in potting mix. After 12 weeks potted into standard 200mm diameter pots into potting mix with added fertilizers, grown outdoors at temperatures in the approximate range of 10-25°C. Overhead watering by hand was given as required. Trial design: unreplicated row of 10 plants. Measurements: on all 10 plants.

Prior Applications and Sales
First sold England 1993, Australia 1994.

Description: **Angus Stewart,** Narrara, NSW.

GREVILLEA
Grevillea hybrid

'Dot Brown'

Application No: 95/274 Accepted: 6 Dec 1995.
Applicant: **Carmel & Terrence Hennessey**, Upper Caboolture, QLD.

Description (Table 17, Figure 53) Plant: shrub, initially prostrate maturing to open upright habit, spreading 1.5 to 2m. Stem: dark brown (RHS 177B). Leaf: pinnatifid, apiculate, lanceolate lobes, midrib prominent. Inflorescence: cylindrical raceme held horizontally, medium density florets, perianth greyed red (RHS 179A), perianth pubescence medium, style greyed red (RHS 179D), style length medium, pollen presenter yellow (RHS 12A).

Origin Random pollination, believed by breeder to be *G. banksii* x *G. pteridifolia*. Breeder: Mrs E Duggan, Hammond Rd, Caboolture, QLD. Selection Criteria: unusual flower colour and short plant height. Propagation : vegetative.

Comparative Trial Comparator:'Honey Gem'. Location: Bush Garden Nursery, Upper Caboolture, QLD, Nov 1995 - Aug 1996. Conditions: struck cutting of both planted to 140mm pots of pinebark and sand mixture; 20cm x 15cm spacing; overhead irrigation. Trial design: randomised post planting blocking on weed mat in the open. Measurement: 30 samples per variety, Aug 1996.

Prior Applications and Sales Nil.

Description: **David Hockings,** Maleny, QLD.

Table 17 *Grevillea* varieties

	'Dot Brown'	*'Honey Gem'
GROWTH HABIT		
	initially prostrate	upright
PLANT HEIGHT (mm)		
mean	295.16	760.84
std. deviation	93.12	106.28
LSD/sig.	25.79	P≤0.01
LEAF LENGTH (mm)		
mean	167.86	277.80
std. deviation	17.33	13.15
LSD/sig.	9.50	P≤0.01
LEAF DIVISION (number)		
mean	10.20	18.43
std. deviation	1.64	0.93
LSD/sig.	4.73	P≤0.01
INFLORESCENCE LENGTH (mm)		
mean	104.34	121.70
std. deviation	12.17	14.07
LSD/sig.	14.18	P≤0.01
DENSITY OF FLORETS IN INFLORESCENCE		
	medium	dense
PERIANTH COLOUR		
	Greyed red	Greyed orange
RHS	179A	163A
PERIANTH TUBE LENGTH (mm)		
mean	12.19	9.89
std. deviation	1.06	0.75
LSD/sig.	1.05	P≤0.01
STYLE COLOUR		
	greyed red	yellow orange
RHS	179D	14A
STYLE LENGTH (mm)		
mean	30.91	38.42
std. deviation	4.23	1.45
LSD/sig.	3.59	P≤0.01
STIGMA COLOUR		
	yellow	yellow
RHS	7A	9A

HYBRID RYEGRASS
Lolium hybrid

'Grasslands Impact' syn G47

Application No: 96/004 Accepted: 8 Jan 1996.
Applicant: **New Zealand Pastoral Agriculture Research Institute Limited,** Palmerston North, New Zealand.

Description (Table 18, Figure 84) Seedling: ~14% roots fluoresce. Plant: diploid, tufted, late flowering, colour medium green, perennial, semi-prostrate as spaced plants. Leaf: short and narrow, sheath anthocyanin moderate. Stem: short. Spike: short. Glume: long. Awn: nil to low percentage. Seed: 1000 seed weight 1.5g-2.5g.

Origin Polycross matings: 10 superior plants resulting from selection for late heading from 'Grasslands Nui' populations, paircrossing with imported NW Spain ecotype, a series of intermatings of halfsibs and further selection. Selection criteria: seasonal growth and disease attributes.

Comparative Trial Comparators: 'Geyser' 'Grasslands Manawa', 'Maverick Gold' Location: Rutherglen, VIC and Lincoln Agriculture Centre, Lincoln, New Zealand 1995. Conditions: ambient field conditions, plastic mulched to prevent weed growth, sprinkler irrigated. Trial design: 100 plants space planted in a randomised block design with 10 replicates with candidate varieties represented by two seed generations. Measurements: on all 100 spaced plants at Lincoln, New Zealand and 80 at Rutherglen, VIC.

Prior Applications and Sales

Country	Year	Status	Name Applied
New Zealand	1993	Pending	'Grasslands Impact'

First sold New Zealand 1993.

Description : **Jeff E Miller, AgResearch Grasslands Research Centre,** Palmerston North, New Zealand.

Table 18 *Lolium* varieties (data from trial at Rutherglen, VIC)

	'G. Impact'	*'G. Manawa'	*'Geyser'	*'Maverick Gold'
VEGETATIVE LEAF LENGTH (cm)				
mean	9.56	13.10	12.80	12.20
std deviation	2.33	2.33	1.61	2.32
LSD/sig	2.35	P≤0.01	P≤0.01	P≤0.01
VEGETATIVE LEAF WIDTH (mm)				
mean	3.31	4.94	5.22	4.53
std deviation	0.50	0.66	0.73	0.89
LSD/sig	0.54	P≤0.01	P≤0.01	P≤0.01
MEAN HEADING DAYS (days from 1/9/95)				
mean	88	68	69	72
std deviation	11	9	8	9
LSD/sig	4.7	P≤0.01	P≤0.01	P≤0.01

IMPATIENS
Impatiens walleriana

'Fiesta Burgundy Rose'

Application No: 95/043 Accepted: 20 Feb 1995.
Applicant: **Pan American Seed Co.**, USA.
Agent: **AJ Newport & Son Pty Limited**, Winmalee, NSW.

Description (Table 19, Figure 47) Plant: height short, width medium. Leaf: width medium, shape ovate, upper side green, marking absent; lower side green. Flower; double, diameter medium to large, eye zone absent.

Origin Controlled pollination: breeding lines '447-1' x '52-2-1'. Breeder: Dr Ellen Leue, Pan American Seed Co a division of Geo. J. Ball Inc. Selection criteria: branching habit, floriferous and early blooming. Propagation: vegetative.

Comparative Trial Comparator: 'Quasar'. Location: AJ Newport and Son Pty Limited Winmalee NSW, Jun - Jul 1996. Conditions: rooted cuttings in commercial potting mix. Watered as required, nutrients supplied 2-3 times per week.Temperature maintained at ca 25°C day / 16°C night with 10 hour day length. Trial design: 20 plants per genotype spaced at 25cm intervals and arranged in a completely randomised design. Measurements: taken from all plants in late Jul.

Prior Applications and Sales

Country	Year	Status	Name Applied
USA	1995	Pending	'Burgundy Rose'

First sold USA 1995, Australia 1995.

Description : **TP Angus, AJ Newport and Son Pty Limited**, Winmalee, NSW.

Table 19 *Impatiens* varieties

	'Fiesta Burgundy Rose'	*'Quasar'
LEAF LENGTH (mm) including petiole		
mean	65.59	72.8
std deviation	7.3	8.26
LSD/sig	6.87	P≤0.01
FLOWER		
petal main colour of upper side (RHS)	red purple 61B	red purple 66A-66B

'Fiesta Salmon Sunrise'

Application No: 95/044 Accepted: 20 Feb 1995.
Applicant: **Pan American Seed Co.**, USA.
Agent: **AJ Newport & Son Pty Limited**, Winmalee, NSW.

Description (Table 20, Figure 48) Plant: height short, width narrow to medium. Leaf: length short to medium (mean 52.53 mm), width narrow; shape ovate, upper side green, marking absent, lower side green. Flower: double, diameter small to medium. Petal: eye zone absent.

Origin Controlled pollination: breeding lines '434-2' x '394-3'. Breeder: Dr Ellen Leue, Pan American Seed Co a division of Geo. J. Ball Inc. Selection criteria: branching habit, floriferous and early blooming. Propagation: vegetative.

Comparative Trial Comparator: 'Pattie'. Location: AJ Newport and Son Pty Limited Winmalee NSW, Jun - Jul 1996. Conditions: rooted cuttings in commercial potting mix. Watered as required, nutrients supplied 2-3 times per week.Temperature maintained at ca 25°C day / 16°C night with 10 hour day length. Trial design: 20 plants per genotype spaced at 25cm intervals and arranged in a completely randomised design. Measurements: taken from all plants in late Jul.

Prior Applications and Sales

Country	Year	Status	Name Applied
USA	1995	Pending	'Salmon Sunrise'

First sold USA 1995, Australia 1995.

Description : **TP Angus, AJ Newport and Son Pty Limited**, Winmalee, NSW.

Table 20 *Impatiens* varieties

	'Fiesta Salmon Sunrise'	*'Pattie'
FLOWER		
number of colours (eye zone excluded)		
	one	two
petal main colour of upper side (RHS)		
	red 43C	red 49B
Secondary colour RHS		
	absent	red 49A

'Fiesta Salsa Red'

Application No: 95/040 Accepted: 20 Feb 1995.
Applicant: **Pan American Seed Co.**, USA.
Agent: **AJ Newport & Son Pty Limited**, Winmalee, NSW.

Description (Table 21, Figure 44) Plant: height short to medium. Leaf: width medium to broad, shape ovate, upper side green, marking absent, lower side green and red. Flower: double, diameter medium to large. Petal: eye zone absent or present, diameter small, white.

Origin Controlled pollination: breeding lines '236-1' x '32-2-1'. Breeder: Dr Ellen Leue, Pan American Seed Co a division of Geo. J. Ball Inc. Selection criteria: branching habit, floriferous and early blooming. Propagation: vegetative.

Comparative Trial Comparator: 'Marmalade'. Location: AJ Newport and Son Pty Limited, Winmalee NSW, Jun - Jul 1996. Conditions: rooted cuttings in commercial potting mix. Watered as required, nutrients supplied 2-3 times per week.Temperature maintained at ca 25°C day / 16°C night with 10 hour day length. Trial design: 20 plants per genotype spaced at 25cm intervals and arranged in a completely randomised design. Measurements: taken from all plants in late Jul.

Prior Applications and Sales

Country	Year	Status	Name Applied
USA	1995	Pending	'Salsa Red'

First sold USA 1995, Australia 1995.

Description : **TP Angus, AJ Newport and Son Pty Limited**, Winmalee, NSW.

Table 21 *Impatiens* varieties

	'Fiesta Salsa Red'	*'Marmalade'
PLANT WIDTH		
	medium	broad
LEAF LENGTH (mm) including petiole		
	medium	broad
mean	76	88
std deviation	8.2	6.7
LSD/sig	6.6	P≤0.01
FLOWER (RHS) petal main colour of upper side		
	red 46B	red 40A

'Fiesta Sparkler Salmon'

Application No: 95/041 Accepted: 20 Feb 1995.
Applicant: **Pan American Seed Co.**, USA.
Agent: **AJ Newport & Son Pty Limited**, Winmalee, NSW.

Description (Table 22, Figure 45) Plant: height medium, width medium to broad. Leaf: width medium, shape ovate, upper side green, marking absent, lower side green. Flower: double, medium diameter. Petal: upper side secondary colour red RHS 56D; eye zone absent.

Origin Controlled pollination: breeding lines '213-1' x '43-4-3-1'. Breeder: Dr Ellen Leue, Pan American Seed Co a division of Geo. J. Ball Inc. Selection criteria: branching habit, floriferous and early blooming. Propagation: vegetative.

Comparative Trial Comparator: 'Peach Petticoat'. Location: AJ Newport and Son Pty Limited Winmalee NSW, Jun - Jul 1996. Conditions: rooted cuttings in commercial potting mix. Watered as required, nutrients supplied 2-3 times per week.Temperature maintained at ca 25°C day / 16°C night with 10 hour day length. Trial design: 20 plants per genotype spaced at 25cm intervals and arranged in a completely randomised design. Measurements: taken from all plants in late Jul.

Prior Applications and Sales

Country	Year	Status	Name Applied
USA	1995	Pending	'Sparkler Salmon'

First sold USA 1995, Australia May 1995.

Description: **TP Angus, AJ Newport and Son Pty Limited**, Winmalee, NSW.

Table 22 *Impatiens* varieties

	'Fiesta Sparkler Salmon'	*'Peach Petticoat'
LEAF LENGTH (mm) including petiole		
mean	82.4mm	110.4mm
std deviation	8.01	11.19
LSD/sig	8.15	P≤0.01

Table 22 *Impatiens* Varieties - continued

FLOWER		
diameter	medium	small
petal main colour of upper side RHS		
	red 52D	red 43D

'Fiesta Tropical Orange'

Application No: 95/042 Accepted: 20 Feb 1995.
Applicant: **Pan American Seed Co.**, USA.
Agent: **AJ Newport & Son Pty Limited**, Winmalee, NSW.

Description (Table 23, Figure 46) Plant: height short to medium, width medium. Leaf: width narrow to medium, shape elliptic and ovate, upper side green, marking absent, lower side green. Flower: double, diameter small to medium. Petal: eye zone absent.

Origin Controlled pollination: breeding lines '447-1' x '52-2-1'. Breeder: Dr Ellen Leue, Pan American Seed Co a division of Geo. J. Ball Inc. Selection criteria: branching habit, floriferous and early blooming. Propagation: vegetative.

Comparative Trial Comparator: 'Jack'. Location: AJ Newport and Son Pty Limited Winmalee NSW, Jun - Jul 1996. Conditions: rooted cuttings in commercial potting mix. Watered as required, nutrients supplied 2-3 times per week.Temperature maintained at ca 25°C day / 16°C night with 10 hour day length. Trial design: 20 plants per genotype spaced at 25cm intervals and arranged in a completely randomised design. Measurements: taken from all plants in late Jul.

Prior Applications and Sales

Country	Year	Status	Name Applied
USA	1995	Pending	'Tropical Orange'

First sold USA 1995, Australia 1995.

Description: **TP Angus, AJ Newport and Son Pty Limited**, Winmalee, NSW.

Table 23 *Impatiens* varieties

	'Fiesta Tropical Orange'	*'Jack'
LEAF LENGTH (mm) including petiole		
mean	65.5	82.3
std deviation	8.74	9.19
LSD/sig	11.2	P≤0.01
FLOWER		
petal colour of upper side RHS		
	orange red 32A	orange red between 32A and 33B

JUNIPER
Juniperus virginiana

'Blue Arrow'

Application No 93/001 Accepted: 19 Jan 1993.
Applicant: **T Tesselaar, Niagara Falls,** Ontario, Canada.
Agent: **J. Koelewyn, Hermitage Nursery,** Tyabb, VIC.

Description (Table 24, Figure 71) Plant: narrow columnar, slow growth rate. Branch (at two years old): dense, rigid, erect, non-planar, usually alternate; bark greyed purple; juvenile branches absent. Penultimate order branchlet: dense, rigid, erect, non planar, whorled; stem greyed yellow. Leaf (last order branchlet): green (RHS 133B).

Origin Natural Sport:'Skyrocket'. Breeder: T Tesselaar, Ontario. Canada. Selection criteria: tree shape, foliage and branch density. Propagation: vegetative.

Comparative Trial Comparator: 'Skyrocket'.Location: Tyabb, VIC Sep.1995 - Aug. 1996. Conditions: plants raised in a standard bark based potting mixture initially in 75 mm pots finally in 30 cm pots, ambient southern Victorian conditions. Trial design: paired replicates Measurements: ten random specimens from ten plants.

Prior Applications and Sales

Country	Year	Status	Name Applied
UK	1987	Pending	'Blue Arrow'

Description: **David Nichols,** Devon Meadows, VIC.

Table 24 *Juniperus* varieties

	'Blue Arrow'	*'Skyrocket'
PLANT CHARACTERISTICS		
growth habit profile		
	narrow columnar	columnar to ovoid
growth rate	slow	slow to medium
branch density	dense	medium to dense
branch erectness	erect	semi erect
penultimate order branchlet arrangement of spray		
	non planar whorled	near planar alternate
PLANT HEIGHT (cm)		
mean	67.5	81.9
std deviation	3.7	2.2
LSD/sig	3.6	P≤0.01
PLANT WIDTH (cm)		
mean	12.9	20.2
std deviation	1.4	1.6
LSD/sig	1.5	P≤0.01
PLANT HEIGHT TO WIDTH RATIO		
mean	5.3	3.8
std deviation	0.5	0.4
LSD/sig	0.5	P≤0.01
LEAF COLOUR RHS of last order branchlet		
	133B	137A-137B

KANGAROO PAW
Anigozanthos hybrid

'Joey Lipstick' syn 1867(E)

Application No: 95/206 Accepted: 1 Sep 1995.
Applicant: **Burbank Biotechnology**, Tuggerah, NSW.

Table 25 *Anigozanthos* varieties

	'Joey Lipstick'	*A. humilis	*'Bush Opal'	*'Fire-fly'	*'Joey Carousel'	*'Joey Confetti'	*'Joey Fireworks'	*'Joey Little Dazzler'
FLOWERING SEASON		all varieties flower year round						
LEAF								
attitude	semi-arching	arching	semi-arching	semi-arching	semi-arching	semi-arching	semi-arching	semi-arching
colour	green	green	green	green	green	green	green	green
(RHS)	137A-B	137A	137A-B	137A-B	137B	137A-B	137A-C	137A-B
margins	mostly glabrous	pube-scent	pube-scent	pube-scent	pube-scent	pube-scent	pube-scent	pube-scent
LEAF LENGTH (cm)								
mean	167	138	153	133	140	150	142	179
std deviation	26.0	13.0	21.0	17.0	18.0	17.0	14.0	23.0
LSD/sig.	19.0	P≤0.01	ns	P≤0.01	P≤0.01	ns	P≤0.01	ns
LEAF WIDTH (mm)								
mean	7.1	12.2	9.6	7.3	7.6	8.1	10.4	9.1
std deviation	2.7	1.8	2.2	1.1	1.5	1.4	1.6	1.1
LSD/sig	1.3	P≤0.01	P≤0.01	ns	ns	ns	P≤0.01	P≤0.01
PEDUNCLE								
colour	green	yellow-green	green	green	green	yellow-green	yellow-green	green
(RHS)	143A-C	144A-C	143A-B	143A	143A-B	144A-C	144A-C	143A-B
hair colour	red-purple	yellow-orange	red-purple	red, red-purple	red-purple	yellow-orange, red	red-purple	red-purple
(RHS)	58A-B	47D	59A	53A,59A	59A	16A-47D	59B	53A
PEDUNCLE LENGTH (to first inflorescence -mm)								
mean	219	166	263	187	233	226	164	255
std deviation	25.0	44.0	31.0	30.0	42.0	25.0	25.0	40.0
LSD/sig	44.0	P≤0.01	P≤0.01	ns	ns	ns	P≤0.01	ns
FLOWERS PER INFLORESCENCE								
mean	9.7	11.4	12.2	8.9	9.6	11.4	11.3	10.7
std deviation	0.5	0.7	1.4	1.0	0.9	0.7	1.3	1.2
LSD/sig	2.3	ns	P≤0.01	ns	ns	ns	ns	ns
PERIANTH								
lobe	fully reflexed	half-fully reflexed	fully reflexed	fully reflexed	half reflexed	half reflexed	fully reflexed	fully reflexed
colour of hairs on opened tube								
	red-purple	yellow-orange	yellow	yellow-green black	yellow-green	orange-yellow	orange-red	yellow-orange
(RHS)	59A	16A	13C	147A, 202A	152D	16A-B	34A-	17A 44A
PERIANTH LENGTH (mm)								
mean	40.6	36.9	41.2	41.4	36.2	44.2	42.0	44.6
std deviation	1.7	1.7	1.4	2.1	3.1	2.2	1.3	2.9
LSD/sig	2.0	P≤0.01	ns	ns	P≤0.01	P≤0.01	ns	P≤0.01
PERIANTH TUBE WIDTH (mm)								
mean	10.5	14.5	11.9	10.9	11.1	12.5	12.7	13.4
std deviation	0.5	1.1	0.9	1.0	1.3	1.0	1.0	1.1
LSD/sig	1.1	P≤0.01	P≤0.01	ns	ns	P≤0.01	P≤0.01	P≤0.01
ANTHER								
number of rows	3	3	2	3	3	3	3	3

Table 25 *Anigozanthos* Varieties - continued

STYLE LENGTH (anther - style -mm)								
mean difference								
	-0.79	1.60	-1.37	-9.00	0.40	0.35	-9.90	-1.61
std deviation	0.58	0.75	0.83	1.80	0.70	0.93	1.10	0.15
LSD/sig	1.30	P≤0.01	ns	P≤0.01	ns	ns	P≤0.01	ns
OVARY								
colour	not visible	not visible	yellow	yellow-orange	red	red	orange-red	yellow-orange
RHS	-	-	13C	17A	46A-B	45A-B	34A-44B	15A
hair colour	red-purple	yellow-orange	red	red	red	red	orange-red	yellow-orange
RHS	60A	13A	46A-C	46A	45A-B	45A	34A-44B	15A

Description (Table 25, Figure 24) Plant: perennial, rhizomatous (forming clumps), dwarf, herbaceous, flowering approximately 12-14 weeks from tissue culture. Leaf: green (RHS 137A-137B), narrow (7mm wide), short (167mm long), semi-arching, glabrous, mostly glabrous margins. Flowering stem: length 219mm at first anthesis, hairs red purple (RHS 60B), unbranched. Inflorescence: one sided raceme. Flower: perianth yellow green (RHS 144B), length 41mm, width 11mm, hairs red purple (RHS 59A) flared distally, perianth lobes fully reflexed, stamens in three distinct lateral rows, stigma 0.8mm shorter than anthers. Ovary: hairs dense red purple (RHS 59A).

Origin Controlled pollination: [*Anigozanthos* 'Bush Opal' x *Anigozanthos humilis* [breeders code 1496c] x [*Anigozanthos* 'Firefly' sibling (breeders code KP2) x [KP2 x *Anigozanthos* 'Pixi Paw']] 1992. Breeder: Ross Worrall, Gosford, NSW. Selection criteria: flower colour, flowering duration, growth habit, stem length. Propagation: tissue culture through at least 10 generations.

Comparative Trial Comparators: *A. humilis*, 'Bush Opal', 'Firefly', 'Joey Carousel', 'Joey Confetti', 'Joey Fireworks', 'Joey Little Dazzler'. Location: Horticultural Research and Advisory Station, Gosford, NSW Feb 1994 - Aug 1994. Conditions: plants raised in a mixture of sphagnum peat, pinebark fines, perlite and sand in 125mm diameter pots under polyethylene plastic. Design: 20 plants arranged in randomised complete blocks. Measurements: on all plants.

Prior Applications and Sales

Country	Year	Status	Name Applied
Denmark	1994	Pending	'Joey Lipstick'
Holland	1994	Pending	'Joey Lipstick'
Germany	1994	Pending	'Joey Lipstick'

Description: **Ross Worrall,** Gosford, NSW

LILLYPILLY
Syzygium paniculatum

'Undercover'

Application No: 93/178 Accepted: 19 Aug 1993.
Applicant: **Rex Trimble,** Five Ways, VIC.

Description (Table 26, Figure 67) Plant: tree, size small, prostrate. Bark: flaky, young stem, smooth, anthocyanin purple. Leaf: opposite, glabrous, elliptical, entire, tip apiculate, young leaf anthocyanin slight, purple.

Origin Spontaneous mutation: *Syzygium paniculatum.* Breeder: Rex Trimble, Five Ways VIC. Selection criteria: prostrate spreading habit. Propagation: vegetative.

Comparative Trial Comparator: common form of *Syzygium paniculatum.* Location: Five Ways VIC, Jan - May 1996. Conditions: plants originally developed as cuttings, transplanted to 150mm pots Jan 1996. Trial design: paired replicates. Measurements: twenty random samples from ten plants.

Prior Applications and Sales Nil.

Description: **David Nichols,** Devon Meadows VIC

Table 26 *Syzygium* varieties

	'Undercover'	**Syzygium paniculatum*
PLANT		
size	small	large
habit	spreading	upright
growth rate	slow	fast
stem colour (RHS)	183A	175A
PLANT HEIGHT (cm)		
mean	11.6	41.7
std. deviation	3.7	4.5
LSD/sig.	3.5	P≤0.01
PLANT HEIGHT:WIDTH RATIO		
mean	0.4	2.1
std. deviation	0.1	0.6
LSD/sig.	0.5	P≤0.01
STEM DIAMETER (mm) at 30mm above media level		
mean	2.8	4.4
std. deviation	0.7	0.3
LSD/sig.	0.5	P≤0.01
INTERNODE LENGTH (mm)		
internode below first fully expanded leaf		
mean	18.0	38.3
std. deviation	5.5	8.8
LSD/sig.	8.4	P≤0.01
LEAF COLOUR (RHS No)		
young leaf upperside	146A	147A
older leaf upperside	147A	147A+

Table 26 *Syzygium* Varieties - continued

LEAF LENGTH (mm) largest two leaves		
mean	57.5	79.7
std. deviation	4.8	11.5
LSD/sig.	6.7	P≤0.01
LEAF WIDTH (mm) largest two leaves		
mean	20.3	25.4
std. deviation	2.1	2.6
LSD/sig.	1.7	P≤0.01

LIMONIUM
Limonium altaica

'Tall Emille' syn LC.00281I

Application No: 94 /154 Accepted: 5 Jul 1994.
Applicant: **Miyoshi and Co Ltd**,Tokyo, Japan.
Agent: **Burbank Biotechnology Pty Ltd ,** Tuggerah, NSW.

Description (Table 27, Figure 54) Plant: herbaceous rosette (diameter 354 mm) forming perennial (3-4 years). Leaf: light green, ovoid spathulate, petiole short, margin undulating, apex obtuse, length 199mm, width 63mm. Inflorescence: height 630mm, open, branches spreading. Flowering stem: smooth without ornamentation. Flower regular, length 5mm, sepals five fused into a pale pink to white tube with red striations, petals five fused into a tube on half their length, colour RHS 85B.

Origin Spontaneous mutation: 'Emille'. Breeder: Shoji Hatano, Honmachi, Kobuchizawa-Cho, Kitakoma-Gun, Yamanashi, Japan. Selection criteria: taller flowers. Propagation: tissue culture through greater than 10 generations.

Comparative Trial Comparators: 'Emille', 'Pink Emille'. Location: Burbank Biotechnology Pty Ltd, Tuggerah, NSW Aug 1994 - Feb 1995. Conditions: plants raised in a potting mix in 20L plastic containers in the open, two to a container. Trial design: 20 'Tall Emille', 14 'Emille' and 14 'Pink Emille' plants arranged in completely randomised manner. Measurements: on two leaves per plant.

Prior Applications and Sales

Country	Year	Status	Name Applied
Japan	1992	Pending	'Tall Emille'
Holland	1993	Pending	'Tall Emille'
Israel	1993	Granted	'Tall Emille'

First sold Japan 1993.

Description: **Ross Worrall,** Gosford NSW.

Table 27 *Limonium* varieties

	'Tall Emille'	*'Emille'	*'Pink Emille'
PLANT HEIGHT (mm)			
mean	630	532	499
std deviation	58.0	38.0	42.0
LSD/sig	48.0	P≤0.01	P≤0.01
ROSETTE DIAMETER (mm)			
mean	354	297	278
std deviation	46.0	50.0	52.0
LSD/sig	37.0	P≤0.01	P≤0.01

Table 27 *Limonium* Varieties - continued

LEAF LENGTH(mm) - third fully expanded leaf			
mean	199	158	141
std deviation	25.0	26.0	22.0
LSD/sig	15.0	P≤0.01	P≤0.01
LEAF WIDTH(mm) - third fully expanded leaf			
mean	63.2	56.3	56.5
std deviation	10.7	8.4	5.9
LSD/sig	4.4	P≤0.01	P≤0.01

LOPHOSTEMON
Lophostemon confertus

'Billy Bunter'

Application No: 93/179 Accepted: 19 Aug 1993.
Applicant: **Rex Trimble,** Five Ways, VIC.
Agent: **Wally Christie, Plant Management Australia,** Warragul, VIC.

Description (Table 28, Figure 68) Plant: tree, size small, bushy. Stem: smooth, young stem pubescent, anthocyanin red. Leaf: alternate, leathery, glabrous above, pubescent below, elliptical to ovate, entire, tip apiculate; young leaf anthocynin red. Flower: white.

Origin Spontaneous mutation: *Lophostemon confertus.* Breeder: Rex Trimble, Five ways, VIC. Selection criteria: dwarf, spreading growth habit.

Comparative Trial Comparator: *Lophostemon confertus.* Location: Five Ways, VIC May 1996. Conditions: ambient outdoors, plants developed as cuttings/tissue culture seedlings, and transplanted to 150mm pots in Jan 1996 in standard soilless media. Trial design: paired replicates. Measurements: twenty from ten plants arranged as paired replicates.

Prior Applications and Sales

First sold Australia 1995.

Table 28 *Lophostemon* varieties

	'Billy Bunter'	**Lophostemon confertus*
PLANT		
size	small	large
habit	upright	upright
growth rate	slow	medium to fast
stem colour RHS	60A	60A, 172A
PLANT HEIGHT (cm)		
mean	20.5	75.3
std deviation	3.0	8.9
LSD/sig	7.5	P≤0.01
PLANT WIDTH (cm)		
mean	25.2	47.4
std deviation	4.2	6.6
LSD/sig	7.3	P≤0.01
PLANT HEIGHT: WIDTH RATIO		
mean	0.8	1.6
std deviation	0.2	0.3
LSD/sig	0.4	P≤0.01

Table 28 *Lophostemon* Varieties - continued

STEM DIAMETER (mm) above media level		
mean	2.8	12.1
std deviation	0.5	0.9
LSD/sig	0.9	P≤0.01
INTERNODE LENGTH (mm)		
node below first fully expanded leaf		
mean	12.5	58.2
std deviation	4.0	15.0
LSD/sig	14.0	P≤0.01
LEAF CHARACTERISTICS (RHS)		
young leaves		
upperside	146B, 146C	146A
underside	146D	146C
older leaves		
underside	146B	147C
LEAF LENGTH (mm) largest two leaves		
mean	117.5	163.3
std deviation	15.2	18.6
LSD/sig	11.0	P≤0.01
LEAF WIDTH (mm) largest two leaves		
mean	40.7	64.6
std deviation	7.7	7.1
LSD/sig	6.3	P≤0.01
LEAF LENGTH: WIDTH RATIO largest two leaves		
mean	2.9	2.6
std deviation	0.3	0.3
LSD/sig	0.2	P≤0.01
PETIOLE LENGTH (mm) largest two leaves		
mean	10.4	17.1
std deviation	2.0	4.0
LSD/sig	2.7	P≤0.01

LUCERNE
Medicago sativa

'Aquarius' syn Y8408

Application No: 93/237 Accepted: 3 Nov 1993.
Applicant: **NSW Agriculture**, Orange, NSW.
Agent: **South Australian Seedgrowers Co-operative Limited**, Hilton, SA..

Description (Table 29, Figure 83) Seedling: resistant to *Phytophthora* root rot (85.8% survivors). Plant: autumn height 36cm, spring height 29cm, summer height 57cm, growth habit semi-erect, foliage dark green, early flowering. Stem: at full flowering: medium to long (92cm). Leaflet: central mean length 29.5cm, mean width 13.5 cm. Flower: high percentage dark blue-violet flowers; no variegation, cream, white, or yellow flowers. Other: resistant to spotted aphids (34.2% survivors).

Origin Controlled pollination: 'CUF-101' x 'NAPB0301' recurrent phenotypic selection within and between half-sib families from the cross. Breeders: DB Waterhouse and RW Williams, NSW Lucerne Improvement Program, Yanco, NSW. Selection criteria: disease resistance, yield, persistence, agronomic characters, insect resistance. Propagation: seed.

Comparative Trial Comparators: 'CUF-101', 'Sceptre', 'Quadrella', 'Aurora'. Location: Yanco, NSW Dec 1993 - Apr 1995. Conditions: red-brown earth, irrigated, no obvious disease or nutrient disorders. Trial design: randomised complete block with four replicates, 30cm within and between row spacings, with separate row plots arranged in two replicates for flower colour measurements. Measurements: 80 plants per variety.

Table 29 *Medicago* varieties

	'Genesis'	'Aquarius'	*'CUF-101'	*'Sceptre'	*'Quadrella'	*'Aurora'
PLANT HEIGHT (cm) 7/10/94 (natural height at spring time) LSD(P≤0.01) = 2.6)						
mean	29.0bc	28.8bc	33.3a	27.5c	30.5ab	28.1bc
std deviation	5.4	6.1	6.5	5.9	4.8	7.0
PLANT HEIGHT (cm) 11/1/95 (height at flowering after 1st cut) LSD(P≤0.01) = 2.5)						
mean	52.7a	56.7c	54.5abc	53.5bc	53.2c	55.9ab
std deviation	4.9	6.0	7.4	4.8	6.5	6.1
PLANT HEIGHT (cm) 2/3/95	(height at flowering after 3rd cut) LSD(P≤0.01) = 3.5)					
mean	43.9c	48.4b	54.9a	47.8b	48.1b	48.9b
std deviation	8.7	7.8	9.9	7.9	7.6	9.1
PLANT HEIGHT (cm) 4/4/95 (4 wks regrowth, cut 2 wks after equinox in 2nd year) LSD(P≤0.01) = 2.7)						
mean	29.4c	32.3b	37.5a	32.6b	32.8b	30.9bc
std deviation	6.3	6.5	6.5	6.5	6.3	7.5
PLANT GROWTH HABIT	medium	semi-erect	erect	erect	semi-erect	medium
PLANT FOLIAGE GREEN COLOUR	medium	dark	light	medium	medium	medium
RESISTANCE TO PHYTOPHTHORA ROOT ROT (% seedling survivors) LSD(P≤0.01) = 18.6)						
mean	61.2b	85.8a	64.6b	49.1b	52.3b	65.9b
std deviation	6.2	9.3	15.9	15.6	15.2	5.1
RESISTANCE TO SPOTTED ALFALFA APHID (% seedling survivors) LSD(P≤0.01) = 18.0)						
mean	28.0c	34.2bc	48.8ab	40.5abc	23.5c	57.0a
std deviation	6.8	8.0	18.0	15.6	10.8	10.3

Means followed by the same letter are not significantly different at P≤0.01.

Prior Applications and Sales Nil.

Description: **RW Williams, NSW Agriculture,** Yanco, NSW.

'Genesis' syn Y8506

Application No: 96/091 Accepted: 24 Apr 1996.
Applicant: **NSW Agriculture**, Orange, NSW.
Agent: **South Australian Seedgrowers Co-operative Limited**, Hilton, SA.

Description (Table 29, Figure 81) Plant: autumn height 35cm, spring height 29cm, summer height 53cm, growth habit medium, foliage medium green, medium-late flowering. Stems at full flowering: long (96cm). Leaf: central leaflet mean length 27.7cm, mean width 12.4cm. Flower: medium percentage dark blue-violet flowers; no variegation, cream, white, or yellow flowers. Others: resistant to *phytophthora* root rot (61.2% survivors), resistant to spotted aphids (28.0% survivors).

Origin Controlled pollination: 'Hely 8' x 'Hely 11' followed by recurrent phenotypic selection within and between half-sib families from the lines developed by FW Hely. Breeders: RW Williams and RR Young, NSW Lucerne Improvement Program. Selection criteria: yield, persistence, agronomic characters, resistance to pests and diseases. Propagation: seed.

Comparative Trial Comparators: 'Aquarius', 'CUF-101', 'Sceptre', 'Quadrella', 'Aurora'. Location: Yanco, NSW Dec 1993 to Apr 1995. Conditions: red-brown earth, irrigated, no obvious disease or nutrient disorders. Trial design: randomised complete block with four replicates, 30cm within and between row spacings, with separate row plots arranged in two replicates for flower colour measurements. Measurements: 80 plants per variety.

Prior Applications and Sales Nil.

Description: **RW Williams, NSW Agriculture**, Yanco, NSW.

MAGNOLIA
Magnolia

'Vulcan'

Application No: 92/156 Accepted: 29 Sep 1992.
Applicant:**M Jury,** Waitara, New Zealand.
Agent: **J Koelewyn, Hermitage Nursery,** Tyabb, VIC.

Description (Table 30, Figure 23) Plant: compact (height at maturity 10m, spread 4m) deciduous tree. Branch: erect sparse. Bark: smooth, dark green when young, grey when mature. Leaf: broad ovate, glossy, pubescent, alternate, mid green above, pale green below; petiole non stipulate. Flower: single; pedicel, length 10 mm, erect, pubescent; bud red purple (RHS 59A). Calyx: pubescent. Corolla: large (diameter 250 mm. width 100 mm), obtuse, symmetry regular, arrangement overlapping, fragrance strong; petals: number 10, red purple RHS 70A-71A above, RHS 74B below. Stamen: number many, filament red, below level of stigma. Receptacle: elongated.

Origin Controlled pollination: *Magnolia lilliflora nigra* x *M. mollicomata* 'Lanarth'. Breeder: Felix Jury, Waitara, New Zealand. Selection criteria: flower form and colour. Propagation: vegetative.

Comparative Trial Comparators: 'Lanarth','Caerhays Surprise','Star Wars'. Location: Taranaki, New Zealand, 1989-1991. Flower colour assessment: Tyabb VIC Aug 1996. Conditions: ambient, single plant, 300 mm pot, standard growing media fertilised with Osmocote.

Prior Applications and Sales

Country	Year	Status	Name Applied
New Zealand	1987	Granted	'Vulcan'

First sold UK and USA 1991.

Description: **David Nichols,** Devon Meadows, VIC.

Table 30 *Magnolia* varieties

	'Vulcan'	*'Lanarth'	*'Caerhay's Surprise'	* 'Star Wars'
PLANT CHARACTERISTICS				
colour	red purple	purple	red purple	pale red purple
flowering period	early	early	late	late

NECTARINE
Prunus persica var nucipersica

'Arctic Queen' syn 122GE250

Application No: 94/164 Accepted: 27 Jul 1994.
Applicant: **Zaiger's Inc. Genetics,** Modesto, California USA.
Agent: **Fleming's Nurseries & Associates Pty Ltd** Monbulk, VIC.

Description (Table 31, Figure 73) Plant: large, vigorous, normal type, upright tree. Leaf: large, green, petiole length medium, nectaries kidney-shaped, anthocyanin colouration absent, leaf fall mid-late May. Inflorescence: flowering early Sep in VIC lasting 2 weeks. Bud: dense, strong anthocyanin colouration. Flower: large rosaceous. Petal: five, size medium, rounded, pink. Sepal: colour orange. Stamen: anthers below stigma, pollen present. Ovary: non-pubescent. Fruit: matures late Mar, large, rounded asymmetric with rounded tip, suture very shallow, stalk deep, pubescence absent; skin with a deep red overcolour to a large extent, yellow-white ground colour; flesh firm, white, colouration absent in flesh and under skin, flavour sub-acid; freestone size medium, globular, surrounded by dense anthocyanin colouration, no tendency to split.

Origin Controlled pollination: '35EB252' x '35GC20' early 1990's. Breeder: Leith Gardner, Zaiger's Inc. Genetics, Modesto, California USA. Selection criteria: regular and heavy production of firm, white flesh nectarines of excellent flavour, edible and shipping qualities. Propagation: budding through several generations.

Comparative Trial Comparators: 'Goldmine', 'Autumn Royal' (33GD109). Locations: experimental orchard of

Zaiger's Inc. Genetics, Modesto, California, USA; back up trial carried out Fleming's Nurseries, Monbulk VIC Oct 1993 - Feb 1996. Conditions: trees propagated by budding, planted into orchards with similar cultural practices. Trial design: random samples from five specimen trees of each variety. Measurements: from 10-15 random samples for each of the varieties.

Prior Applications and Sales

Country	Year	Status	Name Applied
USA	1993	Granted	'Arctic Queen'

First sold USA 1993, Australia 1995.

Description: **Graham Fleming** and **Meaghan McDowell , Flemings Nurseries,** Monbulk, VIC.

Table 31 *Prunus* varieties

	'Arctic Queen'	*'Goldmine'	*'Autumn Royal'
LEAF			
size	large	medium to large	small to medium
nectaries	kidney	kidney	round
FLOWERING SHOOT bud density per 25cm			
	dense	dense	dense
	10	10	15
FLOWER (RHS)			
petal colour	pink	pink	pink
	73D	65D	73D
stigma position relative to anthers			
	above	same level	same level
FRUIT			
size	large	small to medium	small
shape	round	ovate	oblong
skin-ground colour (RHS)			
	yellow/white	green	yellow/white
	8C	8C	8D
skin-over colour RHS			
	deep red	red	deep red
	46A	42A	46A
percent area	(90)	(50-70)	(95)
STONE			
size	medium	large	medium-large
shape	globular	elongate	globular
adherence to flesh			
	free	free	cling
tendency to split			
	none	n/a	some
MATURITY days relative to 'Rich Lady' Peach			
	+ 36	+ 26	+ 36

'Arctic Snow' syn 122GE256

Application No: 94/160 Accepted: 27 Jul 1994.
Applicant: **Zaiger's Inc. Genetics,** Modesto, California USA.
Agent: **Fleming's Nurseries & Associates Pty Ltd** Monbulk, VIC.

Description(Table 32, Figure 73) Plant: large, upright tree. Leaf: large, petiole length medium, nectaries round and kidney-shaped, anthocyanin colouration absent, leaf fall mid-late May. Inflorescence: flowering early Sep in VIC lasting 2 weeks, flowering stem has anthocyanin colouration. Bud: medium density Flower: large rosaceous. Petal: five, size medium, rounded, pink. Sepal: colour orange. Stamen: anthers below stigma, pollen present. Ovary: non-pubescent. Fruit: matures early Mar, large, rounded nearly symmetric, tip slightly depressed with shallow suture and stalk cavity, pubescence absent; skin with a red overcolour, green ground colour; flesh firm, white, colouration absent in flesh and under skin; freestone elongated, surrounded by anthocyanin colouration, no tendency to split.

Origin Controlled pollination: '35EB252' x '35GC20' early 1990's. Breeder: Leith Gardner, Zaiger's Inc. Genetics, Modesto, California USA. Selection criteria: regular and heavy production of firm, highly coloured white flesh nectarines with excellent flavour and eating quality. Propagation: budding through several generations.

Comparative Trial Comparators: 'Arctic Queen', 'Autumn Royal' (33GD109). Locations: experimental orchard of Zaiger's Inc. Genetics, Modesto, California, USA; back up trial carried out Fleming's Nurseries, Monbulk VIC, Oct 1993 - Mar 1996. Conditions: trees propagated by budding, planted into orchards with similar cultural practices. Trial design: random samples from five specimen trees of each variety. Measurements: from 12-15 random samples for each of the varieties.

Prior Applications and Sales

Country	Year	Status	Name Applied
USA	1991	Granted	'Arctic Snow'

First sold USA, 1992, Australia 1995.

Description: **Graham Fleming** and **Meaghan McDowell , Flemings Nurseries,** Monbulk, VIC.

Table 32 *Prunus* varieties

	'Arctic Snow'	*'Arctic Queen'	*'Autumn Royal'
LEAF			
size	medium-large	large &	small-medium
nectaries	round & kidney	kidney	round
LEAF BLADE WIDTH (cm)			
mean	3.8	3.8	3.2
std deviation	0.5	0.4	3.2
LSD/sig	0.4	ns	P≤0.01
LEAF BLADE LENGTH (cm)			
mean	14.4	14.8	12.7
std deviation	2.2	1.1	2.0
LSD/sig	1.5	ns	P≤0.01
LEAF PETIOLE LENGTH (cm)			
mean	0.9	0.8	0.7
std deviation	0.2	0.1	0.1
LSD/sig	0.2	ns	P≤0.01

Table 32 *Prunus* Varieties - continued

FLOWERING SHOOT bud density per 25cm			
	medium	dense	dense
	6	10	15
FLOWER			
petal colour	pink	pink	pink
(RHS)	62C	73D	73D
stigma position relative to anthers			
	above	above	same level
FRUIT			
size	large	large	small
shape	round	round	oblong
shape of tip	slight depression	rounded	rounded
stalk depth	shallow	deep	deep
skin-ground colour/RHS			
	green	yellow/white 8C	yellow/white 8D
skin-over colour/RHS			
	red	deep red	deep red
	45A	46A	46A
skin-over colour percentage			
	60	90	95
STONE			
size	small to medium	medium	medium large
shape	elongate	globular	globular
adherence to flesh			
	free	free	cling/split
MATURITY (days) relative to 'Rich Lady' Peach			
	+ 61 days	+ 36 days	+ 36 days

OATS
Avena sativa

'Barcoo' syn '88-129'

Application No: 95/249 Accepted: 31 Oct 1995.
Applicant: **ME McDaniel, Texas A & M University,** Texas, USA.
Agent: **Pacific Seeds,** Toowoomba, QLD.

Description (Table 33, Figure 78) Plant: spring forage oat, growth habit prostrate. Leaf: below flag leaf pubescence on margins absent. Flag leaf : attitude slightly recurved, width medium and length short (174mm). Primary awns: almost absent. Panicle: branches equilateral, attitude semi-erect; spikelet pendulous; glumes wide (8.9mm); lemma size medium (10.5mm), colour light yellow, Hairs on back of lemma absent. Primary grain: hairs on the base few. Rachilla: length short (2.5mm).

Origin Controlled pollination and selection: 'Entry 129' in the 1988 Quaker Oats International Nursery. Breeder: Dr. ME McDaniel, of Texas A & M University, USA. Selection criteria: resistance to several races of stem and crown rust, good forage potential in Australia.

Comparative Trial Comparators: 'Culgoa 2', 'Nobby'Φ, 'Algerian', 'Condamine'Φ. Location:Gatton, Lockyer Valley, QLD Jul - Oct 1995. Conditions: plants grown in the field with fine clayey soil. Trial design: randomised complete blocks with three replicates with plots 4 rows wide. Measurements: on 50 random plants from 2000 plants of each variety.

Prior Applications and Sales

First sold Australia 1996.

Description: **Peter Stuart, Pacific Seeds,** Toowoomba, QLD.

Table 33 Avena varieties

	'Barcoo'	*'Culgoa 2'	*'Nobby'	*'Algerian'	*'Condamine'Φ
PLANT					
type	spring	spring	spring	winter	spring
growth habit	prostrate	intermediate	intermediate	prostrate	intermediate
STEM: HAIRINESS OF TOP NODE (1=absent, 2=weak, 3=strong)					
	3 (very short)	1	1	1	2
LEAF:					
pubescence of sheath on lower leaves (1=absent, 3=weak, 5=medium, 7=strong, 9=very strong)					
	3	1	3	1	1
pubescence of margins on leaf below flag (1=absent, 3=weak, 5=medium, 7=strong, 9=very strong)					
	1	3	3	3	1
colour (1=yellow/green, 2=green, 3=blue/green, 4= grey/green)					
	4	4	3	3	4
FLAGLEAF ATTITUDE					
(1=rectilinear, 3=slightly recurved, 5=recurved, 7=strongly recurved, 9=very strongly recurved)					
	3	3	9	5	1

Table 33 Avena Varieties - continued

FLAG LEAF WIDTH (mm)					
mean	17.5	19.0	19.9	14.4	14.4
std. deviation	2.28	1.99	2.05	1.86	2.31
LSD/sig.	0.71	P≤0.01	P≤0.01	P≤0.01	P≤0.01
FLAG LEAF LENGTH (mm)					
mean	174.5	190.0	241.8	217.7	154.7
std. deviation	28.21	19.99	42.39	32.88	26.09
LSD/sig.	7.56	P≤0.01	P≤0.01	P≤0.01	P≤0.01
HEADING: 50% HEADS FULLY EMERGED (1=very early, 3=early, 5=medium, 7=late, 9=very late)					
	5	7	7	7	3
PANICLE					
awns (1=absent, 2=primary awns, 3=secondary awns)					
	1 (almost)	1 (almost)	2	2	2
orientation of branches (1=unilateral, 2=sub-unilateral, 3=equilateral)					
	3	3	3	2	3
attitude of branches (1=semi-erect, 2=erect, 3=horizontal, 4=drooping)					
	1	1	1	1	1
attitude of spikelets (1=erect, 2=pendulous)					
	2	2	2	2	2
GLUME: GLAUCOSITY (3=weak, 5=medium, 7=strong)					
	5	5	3	3	3
GLUME WIDTH (mm)					
mean	8.9	8.0	7.5	6.3	7.3
std. deviation	0.64	0.67	0.78	0.58	0.60
LSD/sig.	0.25	P≤0.01	P≤0.01	P≤0.01	P≤0.01
LENGTH OF LEMMA (mm)					
mean	10.4	11.4	12.2	13.2	9.8
std deviation	0.93	0.90	1.42	1.58	0.66
LSD/sig.	0.38	P≤0.01	P≤0.01	P≤0.01	P≤0.01
LENGTH OF RACHILLA (mm)					
mean	2.4	2.9	2.9	2.9	3.0
std deviation	0.50	0.40	0.40	0.31	0.26
LSD/sig.	0.20	P≤0.01	P≤0.01	P≤0.01	P≤0.01
PRIMARY GRAIN					
colour of lemma (1=white, 2=light yellow, 3=yellow, 4=brown, 5=grey, 6=black)					
	2	1	2	4	4
hairs on the back of lemma (1=absent, 2=present)					
	1	1	1	1	1
hairs on the base (3=few, 5=medium, 7=many)					
	3	5	3	5	7
basal scar (1=oblique, 2=intermediate, 3=flat)					
	2	1	1	1	1

PEACH
Prunus persica

'Merit' syn S131.83PJ

Application No: 95/220 Accepted: 6 Nov 1995.
Applicant: **SCEA Domain de Castang, SA and Arsene Maillard,** Saint Laurent des Vignes, Bergerac, France.
Agent: **Fleming's Nurseries & Associates Pty. Ltd.** Monbulk, VIC.

Description (Table 34, Figure 75) Plant: normal type, semi-upright tree, strong vigour. Leaf: large, concave, anthocyanin colouration absent, petiole length medium, nectaries two, kidney-shaped. Inflorescence: appears mid season for a moderate time span, flowering shoot moderately thick, strong anthocyanin colouration. Bud: dense. Flower: large rosaceous. Petals: five, size very large, rounded, light pink. Sepal: colour orange. Stamen: anthers same level as stigma, pollen present. Ovary: pubescent. Fruit: matures late, large, rounded asymmetric with depressed tip, very weak, stalk cavity deep, moderately wide pubescence sparsely present, skin orange-yellow with strong over colour, moderately thick, flesh firm, orange yellow, anthocyanin colouration absent in flesh and under skin but present around stone; stone medium sized, dark, obovoid, non-adherent to flesh, few to no split stones.

Origin Open pollination: 'Melodie'(Φ). Breeder: Arsene Maillard, Bergerac, France. Selection criteria: early maturity and hardiness, abundant bloom and bigger, firm, juicy fruit, totally red skin colour, good edible quality, less susceptibility to *Monilinia* disease. Propagation: Budding through several generations.

Comparative Trial Comparators: Early O'Henry', 'Zee Lady'(Φ). Locations: Domaine de Castang, France 1991-1994; overseas data was obtained from an official copy of 'Certificat d'obtention Vegetale'; verified by a back up trial carried out Fleming's Nurseries, Monbulk VIC from which the comparative data was recorded. Conditions: trees propagated by budding, planted into orchards with similar cultural practices. Trial design: random samples from five specimen trees of each variety. Measurements: from 10-15 random samples for each of the varieties.

Prior Applications and Sales

Country	Year	Status	Name Applied
France	1990	Granted	'Sensation'
Italy	1992	Pending	'Sensation'

First sold France 1991.

Description: **Graham Fleming** and **Meaghan McDowell , Flemings Nurseries,** Monbulk, VIC.

Table 34 *Prunus* varieties

	'Merit'	*'Early O'Henry'	*'Zee Lady'(Φ)
TREE HABIT	semi-upright	upright	upright
LEAF anthocyanin colouration	absent	present	n/a
FLOWERING SHOOT			
bud density	dense	very sparse	sparse
(per 25cm)	7	2	5
anthocyanin	strong (50%)	strong (60%)	medium (<40%)
FLOWER			
first flowering	late Aug	mid Sep	late Aug
type	showy	showy	non-showy
petal size	very large	medium	small
petal form	overlapping	overlapping	free
petal colour (RHS)	light pink 62C	pink 65D	pink 68B
FRUIT			
size	large	medium	large
shape	round	ovate	oblong
skin-ground colour	yellow orange	creamy yellow	bright yellow
extent of overcolour	100%	80%	80%
pubescence density	sparse	present	moderate
prominence of suture	weak	prominent	weak
flesh ground colour	yellow to yellow-orange	yellow	dark to golden yellow
flesh anthocyanin	absent	absent	present
STONE SIZE (compared to fruit)	medium	medium	large
MATURITY days relative to 'Redhaven' Peach	+ 36-38	+ 32	+ 28

PERENNIAL RYEGRASS
Lolium perenne

'Bronsyn' syn LP37

Application No: 95/232 Accepted 3 Oct 1995.
Applicant: **Agriseeds Holdings Ltd,** Christchurch, New Zealand.
Agent: **Agriseeds Holdings Ltd,** Melbourne, VIC.

Description (Table 35) Plant: A diploid perennial forage ryegrass, growth habit semi-prostrate. Flag leaf: size large. Flowering stem: tall. Spike: long.

Origin Controlled pollination: of four selected parent lines. Breeder: Agriseeds Holdings Ltd, Christchurch, New Zealand. Selection criteria: herbage production out of season, rust resistance, tillering capacity, persistency under intense grazing. Propagation: open pollination through four generations.

Comparative Trial Comparators: 'Banks'(Φ), 'Droughtmaster', 'Nui', 'Taurus', 'Yatsyn 1'(Φ), 'Vedette'(Φ). Location: Rutherglen, VIC 1995. Conditions: ambient field conditions, plastic mulched to prevent weed growth, sprinkler irrigated. Trial design: 100 plants space planted in a randomised block design with 10 replicates. Measurements: on all 100 spaced plants.

Prior Applications and Sales

Country	Year	Status	Name Applied
New Zealand	1995	Pending	'Bronsyn'

Description: **FE Wilson, New Zealand Agriseeds Limited,** Christchurch, New Zealand.

'Grasslands Samson'

Application No: 96/003 Accepted: 16 Jan 1996.
Applicant: **New Zealand Pastoral Agricultural Research Institute Limited,** Palmerston North, New Zealand.
Agent: Tony Stratton, AgResearch Grasslands, Albury, NSW.

Description (Table 36, Figure 82) Plant: diploid, tufted medium green, medium late flowering perennial, semi prostrate as spaced plants. Vegetative leaf: medium length and width. Flag leaf: medium length and width. Flowering stem: length medium short, number medium low. Spike: short. Spikelet: size medium short, number medium. Glume: short.

Origin Polycross matings: of 12 plants selected resulting from a series of screenings for rust tolerance and intermatings of pasture collections in dry sites throughout North

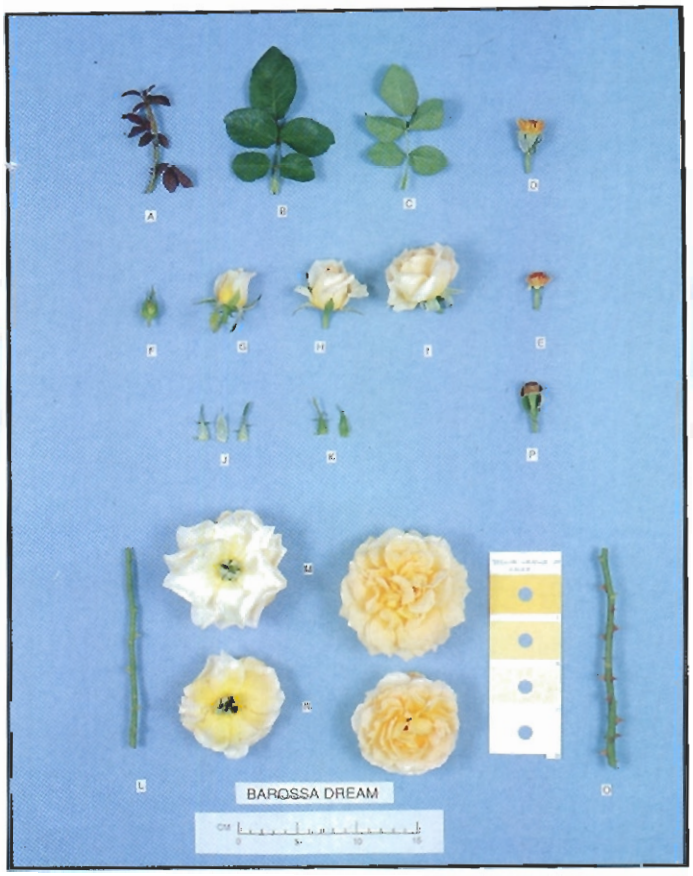

Fig 1 Rose 'Sunauck' syn Barossa Dream

Fig 2 Rose 'Sunmani' syn Oasis Sunset

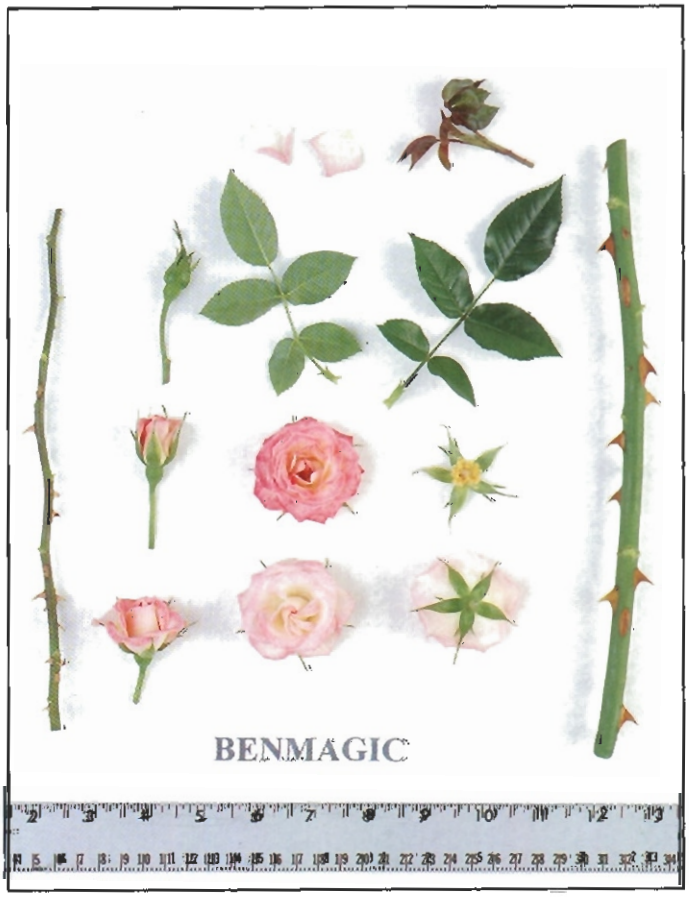

Fig 3 Rose 'Benmagic'

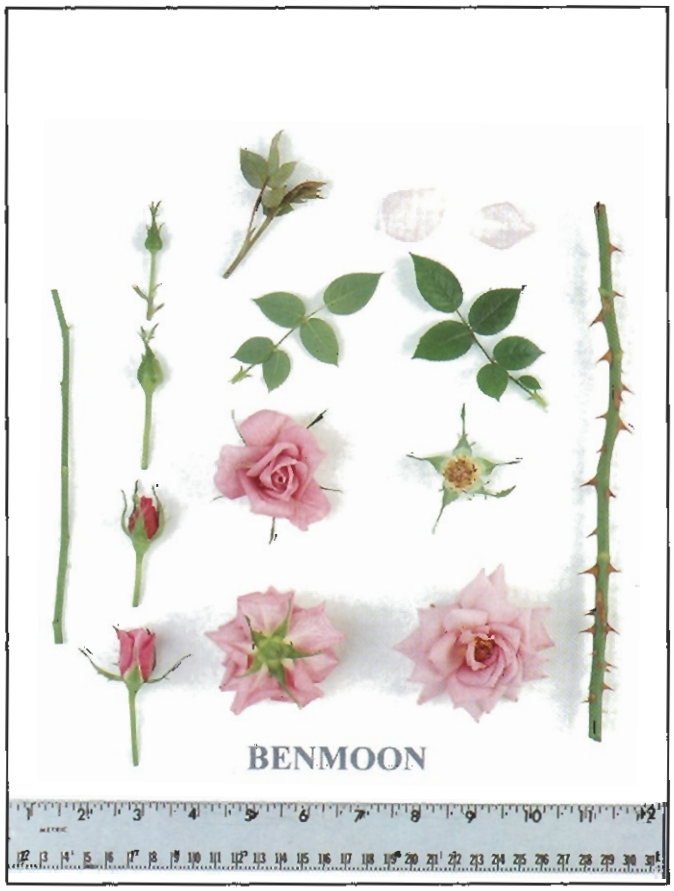

Fig 4 Rose 'Benmoon'

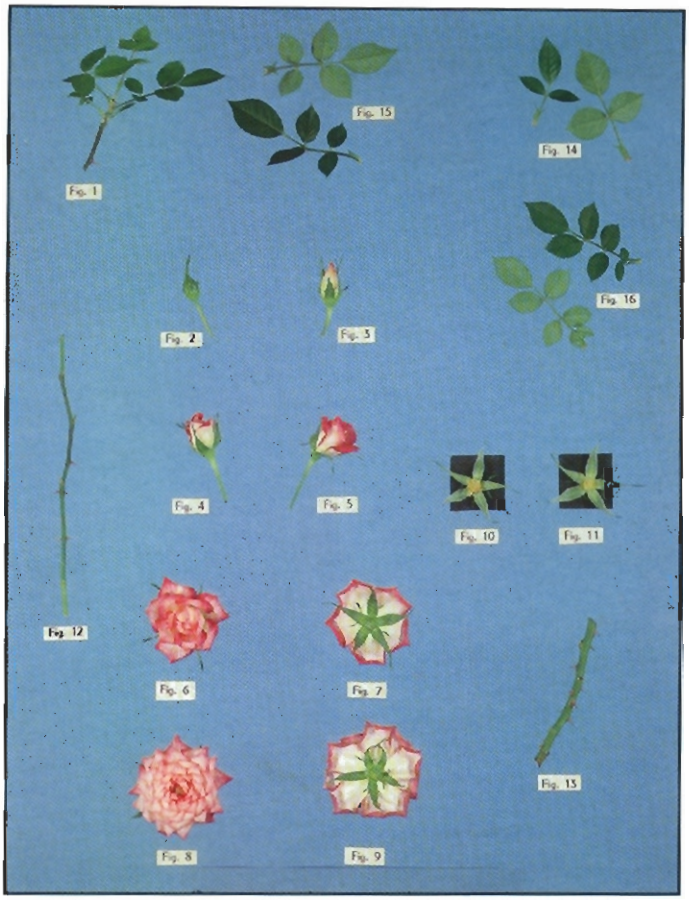

Fig 5 Rose 'Meicarsel'

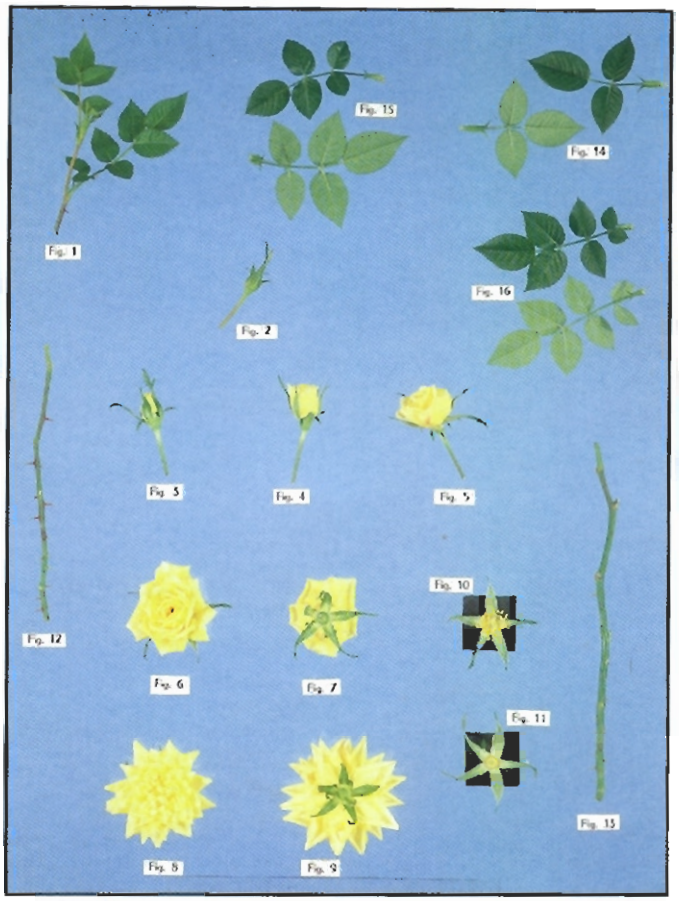

Fig 6 Rose 'Meigrolet'

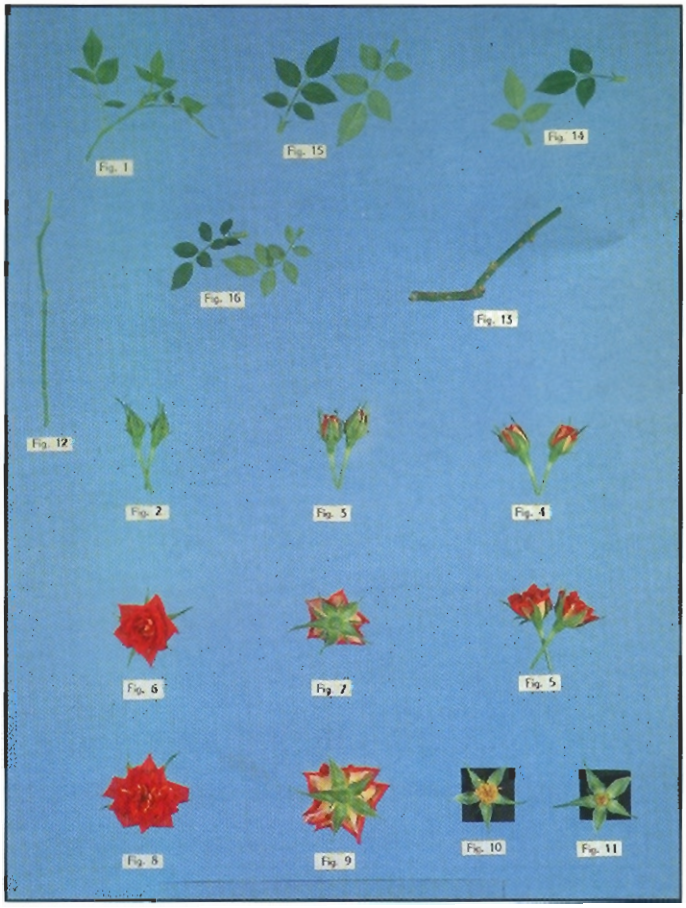

Fig 7 Rose 'Meimagul'

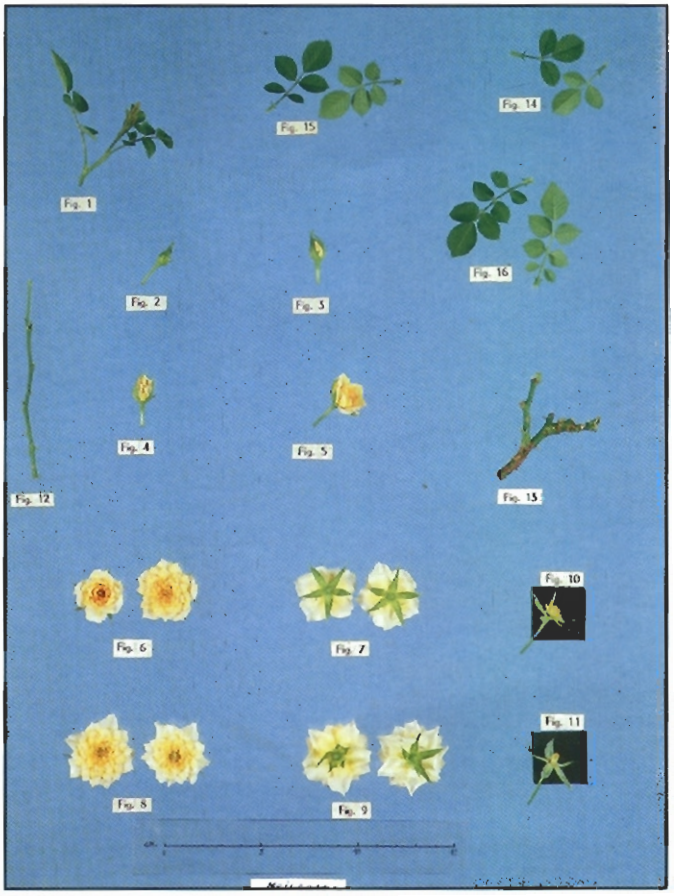

Fig 8 Rose 'Meilarac'

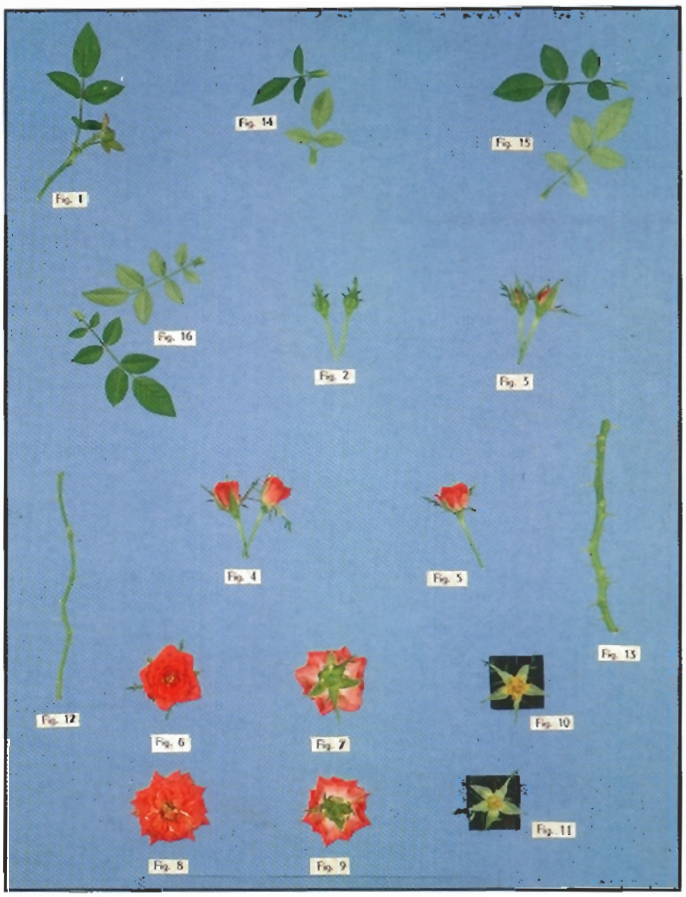

Fig 9 Rose 'Meidrofal'

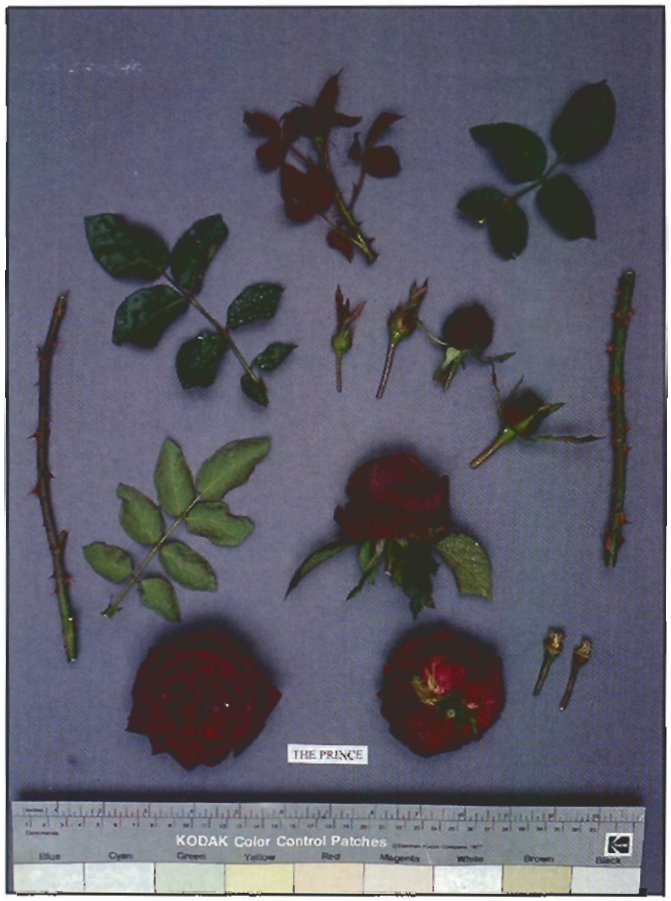

Fig 10 Rose 'Ausvelvet' syn The Prince

Fig 11 Rose 'Ausreef' syn Sharifa Asma

Fig 12 Rose 'Ausbreak' syn Jayne Austin

Fig 13 Rose 'Auswonder' syn Ambridge Rose

Fig 14 Rose 'Ausbloom' syn The Dark Lady

Fig 15 Rose 'Auswalker' syn The Pilgrim

Fig 16 Rose 'Korbacol'

Fig 17 Rose 'Korpinka'

Fig 18 Rose 'Kordaba'

Fig 19 Rose 'Korcrisett'

Fig 20 Rose 'Korlaper'

Fig 21 Rose 'Korcilmo'

Fig 22 Rose 'Korschwama'

Fig 23 Magnolia A flower of 'Vulcan'

Fig 24 Kangaroo Paw 'Joey Lipstick'

Fig 25 Chrysanthemum 'Alcala'

Fig 26 Chrysanthemum 'Cobra'

Fig 27 Chrysanthemum 'Red Elani'

Fig 28 Chrysanthemum 'Samco'

Fig 29 Chrysanthemum 'Tripoli'

Fig 30 Chrysanthemum 'Veria Dark'

Fig 31 Alstroemeria 'Statiren' syn Irena

Fig 32 Alstroemeria 'Stasach' syn Sacha

Fig 33 Alstroemeria 'Stamond' syn Diamond

Fig 34 Alstroemeria 'Ibiza'

Fig 35 Alstroemeria 'Vienna'

Fig 36 Bracteantha Flower heads of 'Gold 'n' Bronze' (right four) and those of its comparator 'Diamond Head' (left four)

Fig 37 Diascia Flowers and leaves of 'Apricot Cherub' (left) and its comparators 'Elliot's Form' (centre) and 'Pink Cherub' (right)

Fig 38 Diascia Flowers and leaves of 'Lilac Mist' (left) and its comparators 'Twinkle' (centre) and 'Ruby Field' (right)

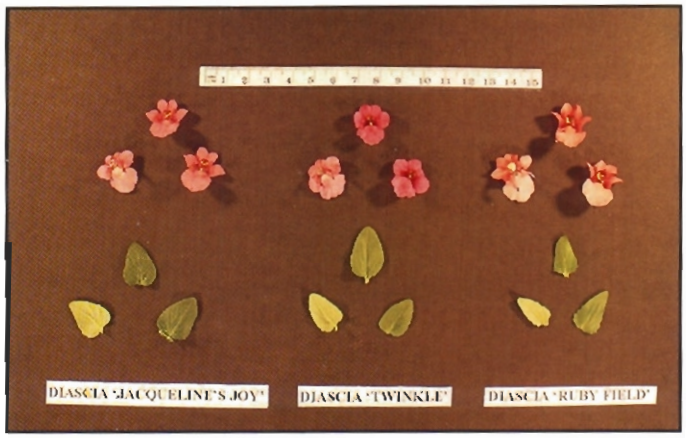

Fig 39 Diascia Flowers and leaves of 'Jacqueline's Joy' (left) and its comparators 'Twinkle' (centre) and 'Ruby Field' (right)

Fig 40 Diascia Flowers and leaves of 'Joyce's Choice' (left) and its comparators 'Strawberry Sundae' (D) (centre) and 'Elliot's Form' (right)

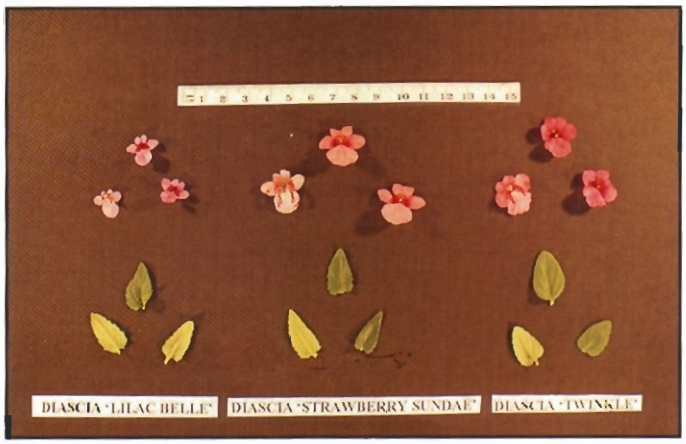

Fig 41 Diascia Flowers and leaves of 'Lilac Belle' (left) and its comparators 'Strawberry Sundae' (D) (centre) and 'Elliot's Form' (right)

Fig 42 Diascia Flowers and leaves of 'Lady Valerie' (left) and its comparators 'Strawberry Sundae' (D) (centre) and 'Elliot's Form' (right)

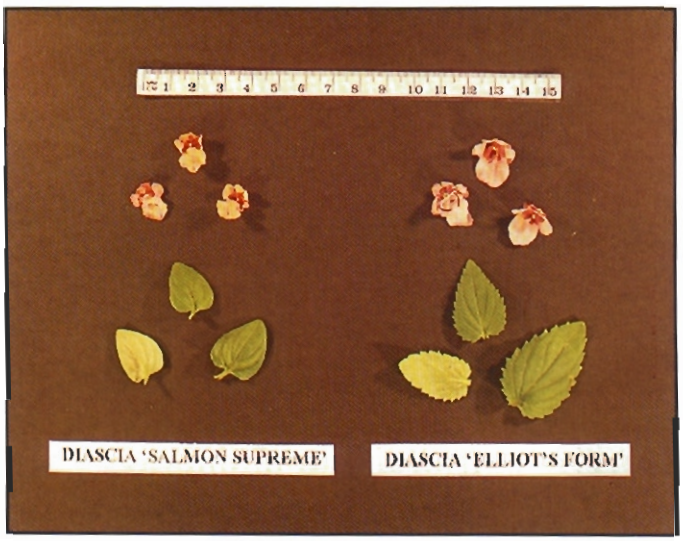

Fig 43 Diascia Flowers and leaves of 'Salmon Supreme' (left) and its comparator 'Elliot's Form' (right)

Fig 44 Impatiens Flower and leaf of 'Fiesta Salsa Red' (left) and its comparator 'Marmalade' (right)

Fig 45 Impatiens Flower and leaf of 'Fiesta Sparkler Salmon' (left) and its comparator 'Peach Petticoat' (right)

Fig 46 Impatiens Flower and leaf of 'Fiesta Tropical Orange' (left) and its comparator 'Jack' (right)

Fig 47 Impatiens Flower and leaf of 'Fiesta Burgundy Rose' (left) and its comparator 'Quasar' (right)

Fig 48 Impatiens Flower and leaf of 'Fiesta Salmon Sunrise' (left) and its comparator 'Pattie' (right)

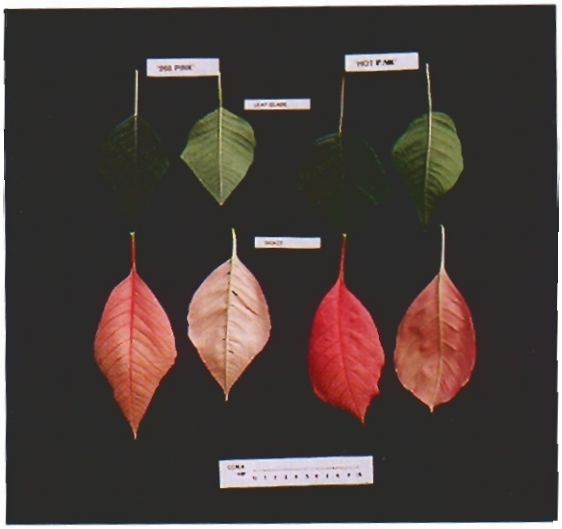

Fig 49 Poinsettia Leaves of '268 Pink' (left) and its comparator 'Hot Pink' (right)

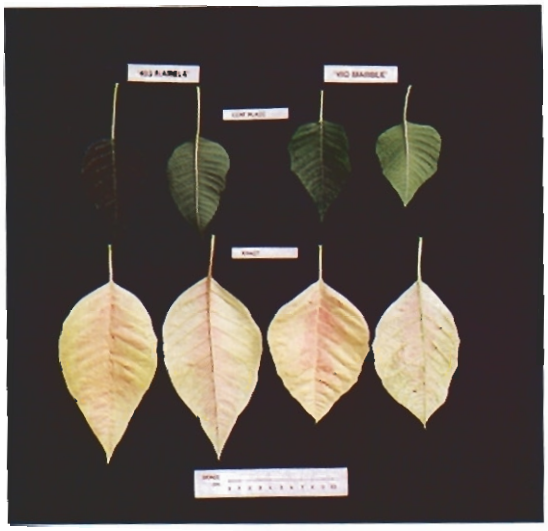

Fig 50 Poinsettia Leaves of '490 Marble' (left) and its comparator 'V10 Marble' (right)

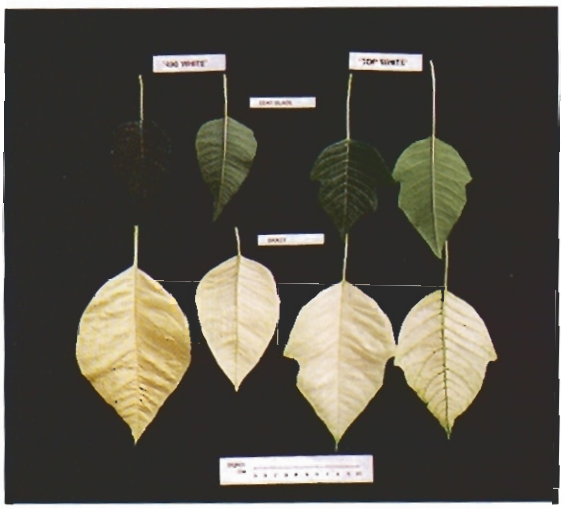

Fig 51 Poinsettia Leaves of '490 White' (left) and its comparator 'Top White' (right)

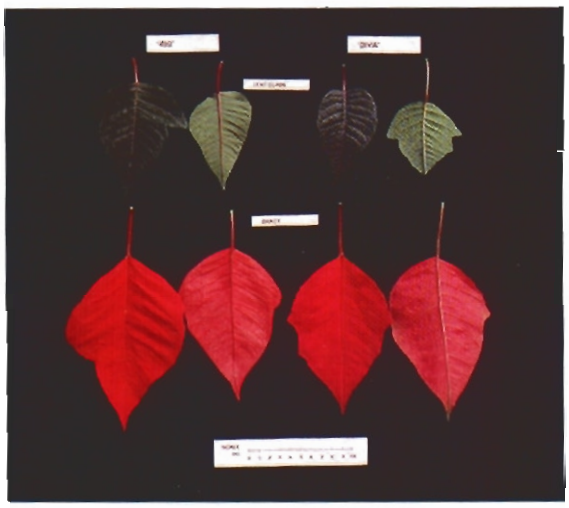

Fig 52 Poinsettia Leaves of '490' (left) and its comparator 'Diva' (right)

Fig 53 Grevillea Inflorescence of 'Dot Brown' (right) and its comparator 'Honey Gem' (left)

Fig 54 Limonium 'Tall Emille' (left) and its comparator 'Emille' (right)

Fig 55 Waxflower Flowers of 'Muchea Mauve'

Fig 56 Waxflower Flowers of 'Jenny Jane'

Fig 57 Waxflower Flowers of 'Jubilee'

Fig 58 Waxflower Flowers of 'Kismet' (right) and its comparator 'Mullering Brook' (left)

Fig 59 Austromyrtus 'Aurora' (right) and its comparator *Austromyrtus inophloia* (left)

Fig 60 Black Locust Growth habit of 'Lace Lady'

Fig 61 Anthurium Spathe and spadix of 'Ruth Morat' (extreme left) and its comparators 'Lady Beth' (second from left), 'Lady Lavender' (third from left), 'Lady Anne' (fourth from left) and 'Lady Jane' (extreme right)

Fig 62 Protea 'Pink Princess' (centre) along with its comparators 'Thomas' (left) and 'Mayday' (right)

Fig 63 Brachyscome Peduncle and flower head of 'Mardi Gras'(left) and its comparators *Brachyscome angustifolia* pink (centre) and *Brachyscome angustifolia* mauve (right)

Fig 64 Caatinga Stylo Flowering shoots of 'Unica' (left) and 'Primar' (centre) with their comparator 'Seca' (right) showing differences in leaf shape and anthocyanin pigmentation on one side of stems, stem hairs, stipules and floral bracts

Fig 65 Schlumbergera Flowers of 'Swan Lake' (top, left), 'Carmen' (bottom, right), 'Mikado' (bottom, left) along with their comparator 'Madame Butterfly' (b) (top, right)

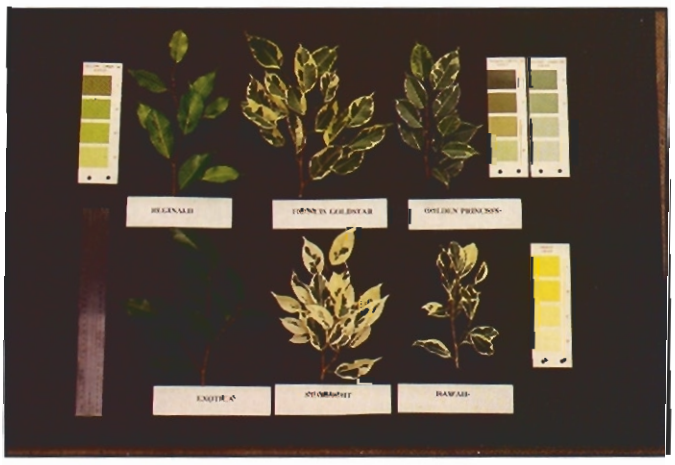

Fig 66 Weeping Fig Leaves of 'Francis Goldstar' (top, centre) and of comparators 'Reginald' (top, left), 'Golden Princess' (top right), 'Exotica' (bottom, left), 'Starlight' (bottom, centre), 'Hawaii' (bottom, right)

Fig 67 Lillypilly 'Undercover'

Fig 68 Lophostemon 'Billy Bunter'

Fig 69 Pseuderanthemum 'Cabaret' (left) with its comparator *Pseuderanthemum repandum* (right)

Fig 70 Conebush (Drumsticks) 'Woorikee 2000' (left) with its comparator *Isopogon anemonifolius* (right)

Fig 71 Juniper 'Blue Arrow' (left) with its comparator 'Skyrocket' (right)

Fig 72 Thuja (White cedar) 'Star-Struck' (right) with its comparator 'Smaragd' (left)

Fig 73 Nectarine Fruits of 'Arctic Queen' (left), 'Arctic Snow' (centre) and the comparator '33GD109' (right)

Fig 74 Snowy River Wattle 'Olympic Gold'

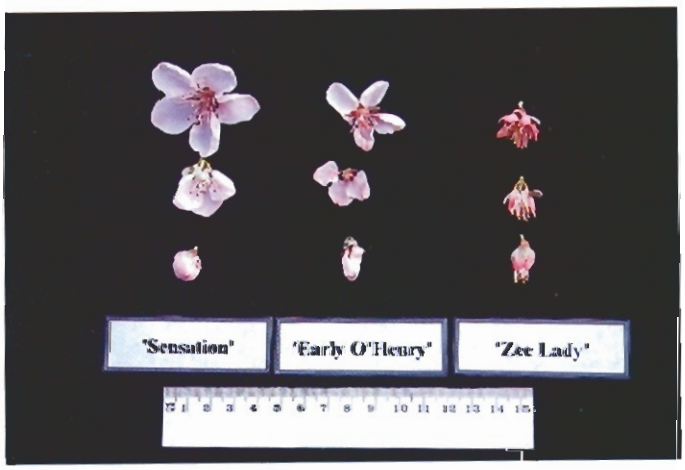

Fig 75 Peach Flowers of 'Merit' (left) and its two comparators 'Early O'Henry' (centre) and 'Zee Lady' (right)

Fig 76 Sesame Fruiting branch of 'Edith' (far left) and its comparators 'Yori 77' (second from left), 'Aussie Gold' (3rd from left) and 'Beech's Choice' (far right)

Fig 77 Potato Conical blue violet light sprouts of 'Novita' which distinguishes it from many oval to long tubered potato cultivars grown for french fry processing in Australia.

Fig 78 Oats Glumeless earhead and flag leaf of 'BARCOO'

Fig 79 Cotton Self-defoliated 'Rainbow-39' (left) with its comparator 'Sicala-34' Ⓟ (right) at the same maturity stage

Fig 80 Cotton Beige lint colour of 'Rainbow-34' (left) compared with white lint colour of 'Sicala-34' Ⓟ (centre) and 'Rainbow-39' (right)

Fig 81 Lucerne A field plot of 'Genesis'

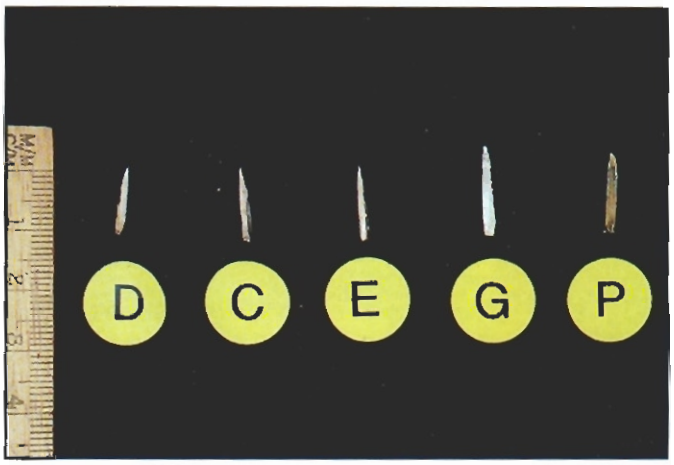

Fig 82 Perennial ryegrass 'Grasslands Samson' (D - extreme left) has shorter glumes than 'Ellett' (C), 'Jackaroo' Ⓟ (E), 'Nevis' (G) and 'Yatsyn-1' Ⓟ (P)

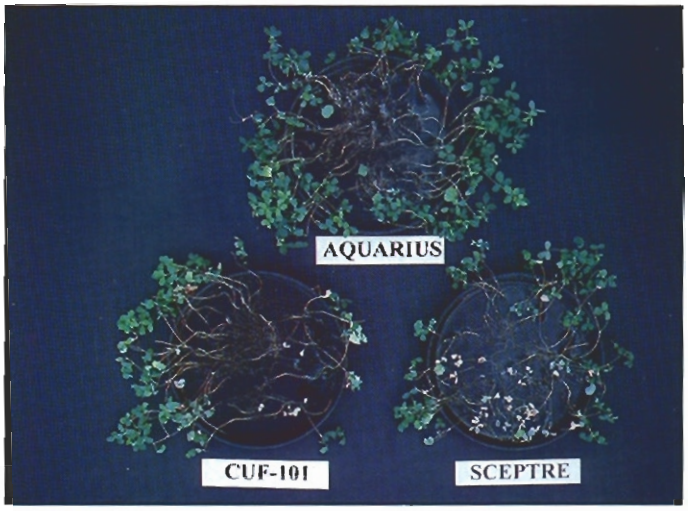

Fig 83 Lucerne Seedlings of 'Aquarius' (top), 'CUF-101'(bottom, left) and 'Sceptre' (bottom, right) following exposure to *Phytophthora* root rot

Fig 84 Hybrid ryegrass 'Grasslands Impact' (C - extreme left) has shorter stems and spikes than 'Geyser' (B - third from left), 'Grasslands Manawa' (D- extreme right) and new variety 'CSLH 931' (A - second from left)

Table 35 *Lolium* varieties

	'Bronsyn'	*'Banks'Φ	*'D'master'	*'Nui'	*'Taurus'	*'Yatsyn 1'Φ	*'Vedette'Φ
SPRING GROWTH HABIT (score 1-erect, 5-prostrate)							
mean	1.63	2.88	1.50	1.93	2.09	2.09	2.71
std deviation	0.66	1.87	0.73	0.77	1.26	0.99	1.27
LSD/sig	0.49	P≤0.001	ns	ns	ns	ns	ns
FLAG LEAF LENGTH (cm) - 25 days after mean heading							
mean	19.55	18.05	17.82	18.32	17.90	17.95	19.42
std deviation	4.20	3.56	3.85	3.42	3.58	4.41	3.92
LSD/sig	1.67	ns	P≤0.01	ns	ns	ns	ns
FLAG LEAF WIDTH (mm)							
mean	7.72	6.35	6.64	8.00	7.05	7.72	7.23
std deviation	1.13	1.07	1.05	1.37	1.02	1.09	1.37
LSD/sig.	0.57	P≤0.001	P≤0.001	ns	ns	ns	ns
STEM LENGTH (cm)							
mean	74.56	69.17	65.32	66.92	63.66	69.95	64.67
std deviation	11.54	10.68	8.57	10.18	10.86	10.23	12.83
LSD/sig	5.04	P≤0.01	P≤0.01	P≤0.01	P≤0.01	ns	P≤0.01

Table 36 *Lolium* varieties (Data from trial at Rutherglen, VIC)

Candidate: A= 'Grasslands Samson'; Comparators: B= 'Droughtmaster', C= ' Grasslands Nui', D= 'Banks'Φ, E= 'Ellett', F= ' Jackaroo'Φ, G= 'Grasslands Lincoln'Φ, H= 'Marathon', I= 'Martlet', J= 'Grasslands Ruanui', K= 'Taurus', L= 'Vedette'Φ, M= 'Yatsyn-1'Φ, N= 'Bronsyn', O= 'Nevis'.
'* ' indicates significant difference at P≤0.01

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
VEGETATIVE LEAF LENGTH (mm) - plant rows															
mean	9.20	9.48	9.82	9.51	10.60	8.94	10.20	9.39	9.55	8.66	8.73	9.58	9.18	10.30	12.40
std dev	1.94	1.85	1.90	1.53	2.12	1.87	1.60	1.35	1.19	1.97	1.64	1.12	1.42	2.20	1.89
LSD/sig	2.15	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	*
VEGETATIVE LEAF WIDTH(cm) - plant rows															
mean	3.63	3.94	3.78	3.66	4.22	3.47	4.00	3.84	3.47	3.25	3.63	3.56	3.78	4.00	4.97
std dev	0.54	0.53	0.64	0.49	0.50	0.41	0.53	0.42	0.80	0.40	0.51	0.35	0.50	0.73	0.74
LSD/sig	0.63	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	*
MEAN HEADING DAYS (day 1 = 1/9/1995)															
mean	65.28	60.53	58.60	61.16	47.26	50.43	56.48	47.23	50.01	53.38	54.52	53.55	58.59	64.02	50.94
std dev	16.15	9.40	2.28	9.24	7.88	7.84	9.22	9.83	9.92	9.53	11.26	10.26	9.46	12.83	6.34
LSD/sig	4.83	ns	*	ns	*	*	*	*	*	*	*	*	*	ns	*
FLAG LEAF WIDTH (mm) 25 days after mean heading															
mean	7.04	6.64	8.00	6.35	7.52	6.99	7.16	6.71	6.93	6.31	7.05	7.23	7.72	7.72	8.64
std dev	1.13	1.05	1.37	1.07	1.09	1.13	1.08	1.00	1.09	0.88	1.02	1.37	1.09	1.13	1.26
LSD/sig.	0.57	ns	*	*	ns	ns	ns	ns	ns	*	ns	ns	*	*	*
NODES PER STEM (count),															
mean	4.23	4.84	4.70	4.83	4.34	4.31	4.24	3.65	4.58	4.19	4.03	4.98	4.80	4.85	4.23
std dev	0.89	1.03	0.83	1.00	0.79	0.93	0.91	0.69	0.83	0.84	0.67	1.01	1.14	1.12	0.67
LSD/sig	1.56	*	*	*	ns	ns	ns	*	ns	ns	ns	*	*	*	ns
SPIKE LENGTH (cm)															
mean	22.63	24.85	24.69	27.11	27.07	25.69	25.89	24.41	24.41	24.31	23.83	26.75	26.46	27.50	26.99
std dev	3.36	4.06	3.65	3.89	*	3.78	4.03	3.48	3.91	4.33	3.58	4.94	3.26	3.44	4.24
LSD/sig	1.56	*	*	*	*	*	*	*	*	*	ns	*	*	*	*
GLUME LENGTH (mm)															
mean	10.96	11.38	12.27	12.06	12.77	12.63	11.83	12.02	12.43	11.63	11.51	11.65	13.20	12.56	13.61
std dev	1.80	2.04	1.91	1.98	2.35	1.85	1.61	1.84	2.21	1.73	2.06	2.49	2.15	1.54	2.39
LSD/sig	0.94	ns	*	*	*	*	ns	*	*	ns	ns	ns	*	*	*

Island and Marlborough and Canterbury in the south island, New Zealand. Breeder: New Zealand Pastoral Agricultural Research Institute, New Zealand. Selection criteria: seasonal growth, resistance to leaf diseases and persistence. Propagation: seed.

Comparative Trial Comparators: 'Banks'Φ, 'Droughtmaster', 'Ellett', 'Jackaroo'Φ, 'Grasslands Lincoln' Φ, 'Marathon', 'Martlet', 'Grasslands Nui', 'Grasslands Ruanui', 'Taurus', 'Vedette'Φ 'Yatsyn 1'Φ, 'Bronsyn', 'Nevis'. Location: Rutherglen, VIC and Lincoln Agriculture Centre, Lincoln, New Zealand 1995.

Table 37 *Lolium* varieties

	'Nevis'	*'Jackaroo'Φ	*'Marathon'	*'Martlet'	*'Ruanui'	*'Taurus'	*'Vedette'Φ
SPRING GROWTH HABIT (score 1-erect, 5-prostrate)							
mean	3.58	1.65	1.74	2.34	1.99	2.09	2.71
std deviation	1.36	0.65	0.72	1.15	0.75	1.26	1.27
LSD/sig	0.49	P≤0.001	P≤0.001	P≤0.001	P≤0.001	P≤0.001	P≤0.001
PLANT HEIGHT (cm) plant rows							
mean	20.3	15.0	15.4	17.0	14.7	15.6	17.1
std deviation	3.18	2.18	2.26	1.80	2.26	2.20	1.83
LSD/sig	3.66	P≤0.001	P≤0.001	ns	P≤0.001	P≤0.001	ns
VEGETATIVE LEAF LENGTH (cm) plant rows							
mean	12.4	8.94	9.39	9.55	8.66	8.73	9.58
std deviation	1.89	1.87	1.35	1.19	1.97	1.64	1.12
LSD/sig	2.15	P≤0.001	P≤0.001	P≤0.001	P≤0.001	P≤0.001	P≤0.001
VEGETATIVE LEAF WIDTH(mm) plant rows							
mean	4.97	3.47	3.84	3.47	3.25	3.63	3.56
std deviation	0.74	0.41	0.42	0.80	0.40	0.52	0.35
LSD/sig	0.64	P≤0.001	P≤0.001	P≤0.001	P≤0.001	P≤0.001	P≤0.001
FLAG LEAF WIDTH (mm) 25 days after mean heading							
mean	8.64	6.99	6.71	6.93	6.31	7.05	7.23
std deviation	1.26	1.13	1.00	1.09	0.88	1.02	1.37
LSD/sig	0.64	P≤0.001	P≤0.001	P≤0.001	P≤0.001	P≤0.001	P≤0.001
NODE NUMBER (count)							
mean	4.23	4.31	3.65	4.58	4.19	4.03	4.98
std deviation	0.67	0.93	0.69	0.83	0.84	0.67	1.10
LSD/sig	0.46	ns	P≤0.01	ns	ns	ns	P≤0.01
SPIKE LENGTH (cm)							
mean	26.99	25.69	24.41	24.41	24.31	23.83	26.75
std deviation	4.24	3.78	3.48	3.91	4.33	3.58	4.94
LSD/sig	1.57	ns	P≤0.001	P≤0.001	P≤0.001	P≤0.001	P≤0.001
SPIKELET LENGTH (mm)							
mean	18.42	17.54	16.01	17.79	16.03	15.89	16.29
std deviation	2.65	3.22	2.07	2.76	2.19	2.47	3.04
LSD/sig	1.19	ns	P≤0.001	ns	P≤0.001	P≤0.001	P≤0.001
GLUME LENGTH (mm)							
mean	13.61	12.63	12.02	12.43	11.63	11.51	11.65
std deviation	2.39	1.85	1.84	2.21	1.73	2.06	2.49
LSD/sig	0.94	P≤0.01	P≤0.001	P≤0.001	P≤0.001	P≤0.001	P≤0.001
SPIKE DENSITY (cm)							
mean	12.92	12.03	11.25	11.86	11.74	11.74	13.35
std deviation	2.36	2.41	2.09	2.50	2.29	2.29	2.87
LSD/sig	0.895	P≤0.01	P≤0.001	P≤0.001	P≤0.001	P≤0.001	ns
SPIKE NUMBER PER PLANT SCORE (1=few; 9=many)							
mean	3.96	3.39	3.51	3.81	3.34	3.29	3.67
std deviation	0.72	0.73	0.88	0.83	0.94	1.14	0.82
LSD/sig	0.57	P≤0.01	ns	ns	P≤0.01	P≤0.01	ns

Conditions: ambient field conditions, plastic mulched to prevent weed growth, sprinkler irrigated. Trial design: 100 plants space planted in a randomised block design with 10 replicates with candidate varieties represented by two seed generations. Measurements: on all 100 spaced plants at Lincoln, New Zealand and 80 at Rutherglen, VIC.

Prior Applications and Sales

Country	Year	Status	Name Applied
New Zealand	1993	Pending	'Grasslands Samson'

Description : **Jeff E Miller, AgResearch Grasslands Research Centre,** Palmerston North, New Zealand.

'Nevis' syn LP22

Application No: 95/233 Accepted 3 Oct 1995.
Applicant: **Agriseeds Holdings Ltd,** Christchurch, New Zealand.
Agent: **Agriseeds Holdings Ltd,** Melbourne, VIC.

Description (Table 37) Plant: A tetraploid perennial forage ryegrass. Vegetative leaf: long. Flag leaf: size wide. Glume: long.

Origin Colchicine treatment and Controlled pollination: of single plant selections from New Zealand germplasm. Breeder: Agriseeds Holdings Ltd, Christchurch, New Zealand. Selection criteria: tetraploid types. Propagation: by open pollination through four generations.

Comparative Trial Diploid comparators: 'Jackaroo'Φ, 'Marathon', 'Martlet', 'Ruanui', 'Taurus' , 'Vedette'Φ. Location: Rutherglen, VIC 1995. Conditions: ambient field conditions, plastic mulched to prevent weed growth, sprinkler irrigated. Trial design: 100 plants space planted in a randomised block design with 10 replicates. Measurements: on all 100 spaced plants.

Prior Applications and Sales

Country	Year	Status	Name Applied
New Zealand	1995	Pending	'Nevis'

Description: **FE Wilson, New Zealand Agriseeds Limited,** Christchurch, New Zealand.

POINSETTIA
Euphorbia pulcherrima

'268 Pink' syn Celebrate Two Pink

Application No: 95/168 Accepted: 16 Aug 1995.
Applicant: **Paul Ecke Ranch Inc**, Encinitas, California USA.
Agent: **AJ Newport and Son Pty Ltd**, Winmalee, NSW.

Description (Table 38, Figure 49) Plant: width narrow to medium, branching present, monstrosity absent. Stem: colour greenish, colour intensity medium. Leaf: length medium, width medium, shape broad obovate or broad triangular, base rounded, lobes absent to weakly developed, sinus rounded, margin incision absent; colour upper side greenish with medium intensity, lower side greenish with medium intensity; veins upper side greenish, lower side greenish; petiole colour upper side reddish with weak intensity, lower side greenish. Bract: distance between upper and lower bracts short, shape broad elliptical, base rounded, bicoloured. Cyme: width medium, cyathium size of glands medium, colour of glands greenish yellow.

Origin Induced Mutation: '268'. Breeder: Franz Fruehwirth, Paul Ecke Ranch Inc, Encinitas, California, USA. Selection Criteria: self branching, bract colour. Propagation: cuttings.

Comparative Trial Comparator: 'Hot Pink'. Location: AJ Newport and Son Pty Limited, Winmalee, NSW, Apr - Aug 1996. Conditions: greenhouse, temperature maintained at ca. 25°C day / 18°C night with 91/2 hour daylength controlled with blackout curtains. Trial Design: 20 plants per genotype arranged in a completely randomised design, pots spaced at 30cm intervals. Measurements: taken from 10 or more plants.

Prior Applications and Sales

Country	Year	Status	Name Applied
USA	1990	-	-
Denmark	1992	-	-
England	1995	-	-
Germany	1995	-	-
Holland	1995	-	-

First sold USA 1991, Australia 1995.

Description: **TP Angus, AJ Newport and Son Pty Limited**, Winmalee, NSW.

Table 38 *Euphorbia* varieties

	'Celebrate Two Pink'	*'Hot Pink'
PLANT HEIGHT (mm)		
mean	136.3	178.5
std deviation	20.5	28.2
LSD/sig	3.2	P≤0.01
PETIOLE LENGTH		
mean	83.5	106.5
std deviation	9.1	13.4
LSD/sig	11.03	P≤0.01
PETIOLE COLOUR INTENSITY		
lower side	medium	weak
LARGEST BRACT LENGTH (mm) including petiole		
mean	179.8	211.9
std deviation	20.6	21.2
LSD/sig	26.13	P≤0.01
LARGEST BRACT WIDTH (mm)		
mean	83.5	106.5
std deviation	9.1	13.4
LSD/sig	14.34	P≤0.01
BRACT COLOUR (RHS)		
upper side	red 48B/C	red 52B/D
lower side	red 52D	red 51C

'490' syn Eckespoint Freedom

Application No: 95/170 Accepted: 11 Jul 1995.
Applicant: **Paul Ecke Ranch Inc**, Encinitas California USA.
Agent: **AJ Newport and Son Pty Ltd**, Winmalee, NSW.

Description (Table 39, Figure 52) Plant: height medium, width medium, monstrosity absent. Stem: colour reddish. Leaf: length medium, width narrow to medium, shape broad obovate or broad triangular, base rounded, lobes absent to weakly developed, sinus rounded, margin incision absent; colour upper side greenish with strong intensity, lower side greenish with medium intensity; veins upper side reddish, lower side reddish, petiole length medium to long, colour upper side reddish, lower side reddish. Bract: length medium, width medium, distance between upper and lower bracts medium, shape broad elliptical to broad ovate, base rounded. Cyme: width medium, cyathium size of glands medium, colour of glands greenish yellow to yellow.

Origin Induced mutation: seedling. Breeder: Franz Fruehwirth, Paul Ecke Ranch Inc, Encinitas California USA. Selection Criteria: dark green foliage, strong branching habit, dark red flower bracts, and early flowering. Propagation: cuttings.

Comparative Trial Comparator: 'Diva'. Location: AJ Newport and Son Pty Limited, Winmalee, NSW, Apr - Aug 1996. Conditions: greenhouse, temperature maintained at ca. 25°C day / 18°C night with 91/2 hour daylength controlled with blackout curtains. Trial Design: 20 plants per genotype arranged in a completely randomised design, pots spaced at 30cm intervals. Measurements: taken from 10 or more plants.

Prior Applications and Sales

Country	Year	Status	Name Applied
USA	1990	-	-
Denmark	1991	-	-
Germany	1992	-	-
Israel	1992	-	-

First sold USA 1992, Australia 1995.

Description: **TP Angus, AJ Newport and Son Pty Limited**, Winmalee, NSW.

Table 39 *Euphorbia* varieties

	'490'	*'Diva'
PLANT		
branching	present	absent
no. branches	very few	-
STEM		
intensity of colour	strong	medium
PETIOLE COLOUR INTENSITY		
upper side	strong	medium
BRACT		
bicoloured bracts	present	absent
no. uniform coloured bracts	very few	very many
no. bicoloured bracts	many	very few
colour upper side	red	red
RHS	46A, 46B	46C

'490 Marble' syn 'Eckespoint Freedom Marble'

Application No: 95/169 Accepted: 10 Jul 1995.
Applicant: **Paul Ecke Ranch Inc**, Encinitas California USA.
Agent: **AJ Newport and Son Pty Ltd**, Winmalee, NSW.

Description (Table 40, Figure 50) Plant: height medium to short, width medium, branching present, monstrosity absent. Stem: colour intensity medium. Leaf: length medium, width medium, lobes absent to weakly developed, sinus rounded, margin incision absent; colour upper side greenish with strong to medium intensity, lower side greenish with medium intensity; veins upper side greenish, lower side greenish; petiole length medium, colour upper side greenish with medium intensity, lower side with weak intensity. Bract: width medium, distance between upper and lower bracts medium, shape broad elliptical, base rounded, bicoloured, colour upper side white and pink, lower side white and pink. Cyme: width narrow to medium, cyathium size of glands medium, colour of glands yellow.

Origin Induced Mutation: '490'. Breeder: Franz Fruehwirth, Paul Ecke Ranch Inc, Encinitas, California, USA. Selection Criteria: early flowering, self branching, pink and white bicoloured bracts, dark green foliage. Propagation: cuttings.

Comparative Trial Comparator: 'V10 Marble'. Location: Location: AJ Newport and Son Pty Limited, Winmalee, NSW, Apr - Aug 1996. Conditions: greenhouse, temperature maintained at ca. 25°C day / 18°C night with 91/2 hour daylength controlled with blackout curtains. Trial Design: 20 plants per genotype arranged in a completely randomised design, pots spaced at 30cm intervals. Measurements: taken from 10 or more plants.

Prior Applications and Sales

Country	Year	Status	Name Applied
USA	1993	-	-
Denmark	1994	-	-
Sweden	1994	-	-
Norway	1994	-	-
France	1994	-	-
Germany	1995	-	-

First sold USA 1994, Australia 1995.

Description: **TP Angus, AJ Newport and Son Pty Limited**, Winmalee, NSW.

Table 40 *Euphorbia* varieties

	'490 Marble'	*'V10 Marble'
STEM		
colour	reddish	greenish

Table 40 *Euphorbia* Varieties - continued

LEAF BLADE		
shape	broad ovate	broad triangular
shape of base	wedge-shaped	straight
PETIOLE COLOUR		
intensity upper side	medium	weak
colour lower side	reddish	greenish
LARGEST BRACT LENGTH (mm) including petiole		
mean	185.9	163.4
std deviation	18.1	13.4
LSD/sig	19.92	P≤0.01

'490 White' syn Eckespoint Freedom White

Application No: 95/167 Accepted: 7 Jul 1995.
Applicant: **Paul Ecke Ranch Inc**, Encinitas California USA.
Agent: **AJ Newport and Son Pty Ltd**, Winmalee, NSW.

Description (Table 41, Figure 51) Plant: height medium, width medium, branching present, monstrosity absent. Stem: colour greenish, colour intensity medium. Leaf: base straight to rounded, lobes absent to weakly developed, sinus rounded, margin incision absent; colour upper side greenish with strong intensity, lower side greenish with medium intensity; veins upper side greenish, lower side greenish; petiole colour upper side greenish with weak intensity, lower side greenish with weak intensity. Bract: distance between upper and lower bracts medium, unicoloured. Cyme: cyathium size of glands medium, colour of glands yellow.

Origin Induced Mutation: '490'. Breeder: Peter Jacobsen, Skibby, Denmark. Selection Criteria: early flowering, self branching, bract colour, dark green foliage. Propagation: cuttings.

Comparative Trial Comparator: 'Top White'. Location: AJ Newport and Son Pty Limited, Winmalee, NSW, Apr - Aug 1996. Conditions: greenhouse, temperature maintained at ca. 25°C day / 18°C night with 91/2 hour daylength controlled with blackout curtains. Trial Design: 20 plants per genotype arranged in a completely randomised design, pots spaced at 30cm intervals. Measurements: taken from 10 or more plants.

Prior Applications and Sales

Country	Year	Status	Name Applied
Denmark	1992	-	-
USA	1993	-	-
Sweden	1993	-	-
France	1993	-	-
Germany	1993	-	-
Holland	1993	-	-

First sold USA 1994, Australia 1995.

Description: **TP Angus, AJ Newport and Son Pty Limited**, Winmalee, NSW.

Table 41 *Euphorbia* varieties

	'490 White'	*'Top White'
LEAF BLADE LENGTH (mm)		
mean	133.8mm	178.2mm
std deviation	19.9	28.2
LSD/sig	30.59	P≤0.01
LEAF BLADE WIDTH (mm)		
mean	63.5	89.1
std deviation	9.6	10.6
LSD/sig	12.7	P≤0.01
LEAF BLADE		
shape	broad ovate	broad triangular
PETIOLE LENGTH (mm)		
mean	42.9	62.7
std deviation	7.9	12.6
LSD/sig	13.1	P≤0.01
LARGEST BRACT LENGTH (mm) including petiole		
mean	183.3	218.8
std deviation	20.1	17.5
LSD/sig	23.6	P≤0.01
LARGEST BRACT WIDTH (mm)		
mean	94.1	113.2
std deviation	15.8	12.7
LSD/sig	17.9	P≤0.01
BRACT		
shape	broad elliptical	broad ovate to circular
shape of base	wedge shaped	rounded
no. of bicoloured bracts	very few to nil	very few
colour upper side	yellow	yellow
RHS	9D	11D
colour lower side	yellow	yellow
RHS	2D	11D
CYME WIDTH (mm)		
mean	27.9	56.0
std deviation	6.7	6.2
LSD/sig	0.8	P≤0.01

POTATO
Solanum tuberosum

'Novita'

Application No: 95/253 Accepted: 7 Nov 1995.
Applicant: **Hettema Zonen Kweekbedrijf,** Emmeloord, The Netherlands.
Agent: **Department of Primary Industry and Fisheries**, Devonport TAS.

Description (Table 42, Figure 77) Plant: size short to medium, habit semi erect to spreading, growing season short. Stem: medium anthocyanin. Leaf: large, medium to dark green, medium waviness to margin. Flower: blue violet. Tuber: long oval with smooth yellow skin, shallow eyes and yellow flesh. Lightsprout: conical, blue violet, pubescent at tip.

Origin Controlled pollination : 'Spunta' x 'Morene'. Breeder: R Leijstra, St Annaparochie, The Netherlands.

Comparative Trial Description based on data produced by PBR, The Netherlands and subsequently compared with Tasmanian data on 'Spunta', 'Morene' and 'Gladiator' which the qualified person considers to be the closest comparators.

Prior Applications and Sales

Country	Year	Status	Name Applied
Netherlands	1989	Granted	'Novita'
France	1989	Granted	'Novita'
Italy	1990	Granted	'Novita'
Germany	1991	Granted	'Novita'
Belgium	1992	Granted	'Novita'
Denmark	1992	Granted	'Novita'

Table 42 *Solanum* varieties

	'Novita'	*'Spunta'	*'Morene'	*'Gladiator'
LIGHTSPROUT				
size	medium	large	large	large
shape	conical	ovoid	ovoid	conical
anthocyanin colouration of base	blue violet	blue violet	red violet	blue violet
pubescence of base	very weak-weak	medium	strong	medium
habit of tip	medium	medium	medium	medium
pubescence of tip	medium	medium	medium	medium
number of root tips	few-medium	many	medium	medium
protrusion of lenticels	weak-medium	many	medium	medium
length of lateral shoots	medium	long	medium	short-medium
PLANT				
height	short-medium	medium	short-medium	medium-tall
growth habit	semi erect-spreading	semi-erect	semi -erect	erect
time of maturity	early	medium-late	medium	late
STEM				
extension of anthocyanin colouration	medium	medium	strong	absent
LEAF				
size	large	medium	large	medium
silhouette	medium	medium	closed	medium
intensity of green colour	medium-dark medium	medium	dark	
anthocyanin colouration of midrib	weak	absent	medium	medium
LEAFLET				
size	medium-large	medium-large	large	medium-large
width	medium-broad	broad	broad	medium
frequency of coalescence	low-medium	low	low	low
waviness of margin	medium	weak	weak	mediu
anthocyanin pigmentation of blade of young leaflets at apical rosette	absent	absent	present	absent
glossiness of the upperside	medium	medium	dull	dull
INFLORESCENCE				
size	small	medium	medium	medium
frequency of flowers	low	medium	high	high
anthocyanin colouration of bud	weak-medium	medium	strong	very strong
flower corolla; colour of inner side	blue-violet	white	red violet	blue violet
flower corolla; anthocyanin colouration of outer side in white flower	-	absent	-	-
frequency of fruits	absent-very low	very few		very few
TUBER				
shape	long oval	long	long oval	oval
depth of eyes	shallow	shallow	shallow	medium
smoothness of skin	smooth	smooth	medium	medium
colour of skin	yellow	yellow	yellow	yellow
colour of base of eye	yellow	yellow	yellow	yellow
colour of flesh	yellow	light yellow	cream	white
anthocyanin colouration of skin in reaction to light (yellow skin)	medium-strong	medium	absent	very strong

Israel	1992	Granted	'Novita'
Spain	1992	Pending	'Novita'
United Kingdom	1993	Granted	'Novita'
Ireland	1993	Pending	'Novita'
New Zealand	1993	Pending	'Novita'
Poland	1993	Pending	'Novita'
Slovakia	1993	Pending	'Novita'
Czech Republic	1993	Pending	'Novita'
Finland	1994	Pending	'Novita'
Sweden	1994	Pending	'Novita'

Description: **John Fennell,** Devonport, TAS.

PROTEA
Protea compacta x P. magnifica

'Pink Princess'

Application No: 95/001 Accepted: 9 Jan 1995.
Applicant: **Proteaflora Enterprises Pty Ltd** Monbulk, VIC.

Description (Table 43, Figure 62) Plant: open rounded medium sized spring flowering shrub, late short flowering season Oct-Nov, 58% of inflorescences open by the end of Oct. Stem: mean diameter of stems bearing inflorescences 11.52 mm. Leaf: narrow elliptical, base obtuse, apex acute, margins strongly undulated, width 48.08mm, length to width ratio 2.97, colour RHS 147A. Inflorescence: terminal, obovate at opening, broad obovate to semi globose immediately prior to anthesis, apex of flower mass broad conical prior to anthesis, colour RHS 175C; involucral bracts main colour RHS 60A, innermost involucral bracts narrow spathulate, length 97.47mm, dense white pubescence on margins and apices. Style: length of outer style 71mm.

Origin Open pollination: *Protea compacta. Protea magnifica* is the putative pollen parent. Breeder: Andrew Mathews, Proteaflora Nursery, Monbulk, VIC. Selection criteria: flowering season, inflorescence colour and shape. Propagation: vegetative.

Comparative Trial Comparators: 'Thomas' (*Protea compacta*), 'Mayday' (*Protea magnifica*). Location: Monbulk, VIC. Conditions: plants propagated in winter 1993 and grown in 14cm pots, trial initiated in Nov 1994, plants potted to 20cm pots in Apr 1995. Trial design: randomised block design with 5 replicates. Measurements: all plants bearing inflorescences were sampled. Inflorescences tagged monthly as they opened and characters such as inflorescence shape and colour recorded progressively.

Prior Applications and Sales Nil.

Description: **Paul Armitage, Plant Advance,** Lilydale, VIC.

Table 43 *Protea* varieties

	'Pink Princess'	*'Thomas'	*'Mayday'
FLOWERING SEASON	Oct-Nov	Jun-Sep	Jul-Oct
MONTH OF PEAK FLOWERING	Oct	Sep	Sep
LEAF WIDTH(mm)			
mean	48.08	35.65	29.35
std deviation	6.29	3.26	1.93
LSD/sig	4.74	P≤0.01	P≤0.01
LEAF			
shape	narrow-elliptical	broad-lanceolate	narrow-lanceolate
undulation of margin	strong	slight	slight
length:width ratio	2.97	3.85	6.03
MATURE INFLORESCENCE SHAPE	broad obovate -semi globose	narrow obovate	narrow obovate
APEX OF FLOWER MASS:SHAPE	broad conical	narrow conical	narrow conical
LENGTH OF OUTER STYLES (mm)			
mean	71.0	64.05	60.35
std deviation	2.27	3.54	1.68
LSD/sig	3.30	P≤0.01	P≤0.01

PSEUDERANTHEMUM
Pseuderanthemum repandum

'Cabaret'

Application No: 95/235 Accepted: 30 Oct 1995.
Applicant: **Harts Nursery Pty Ltd,** Rochedale, QLD.

Description (Table 44, Figure 69) Plant: upright shrub. Leaf: smaller than the normal species, conspicuously variegated.

Origin Variegated bud sport: *Pseuderanthemum repandum.* Breeder: Stephen Hart. Selection criteria: conspicuous and attractive leaf variegation. Propagation: Cuttings through 5 generations.

Comparative Trial Comparator: *Pseuderanthemum repandum.* Location: Harts Nursery, Rochedale, QLD Nov 1995-Apr 1996. Conditions: Plants were raised in a mixture of pinebark and sand in 125mm pots. Trial Design: 90 plants arranged in a randomised complete block.

Prior Applications and Sales Nil.

Description: **David Hockings,** Maleny, QLD.

Table 44 *Pseuderanthemum* varieties

	'Cabaret'	**Pseuderanthemum repandum*
PLANT HEIGHT (mm)		
mean	239	235
std deviation	35.9	92.6
LSD/sig	49.2	ns
LEAF LENGTH (mm)		
mean	43.7	65.9
std deviation	6.06	6.37
LSD/sig	5.57	P≤0.001
LEAF WIDTH (mm)		
mean	11.3	20.3
std deviation	2.35	3.19
LSD/sig	2.51	P≤0.001
LEAF COLOUR (RHS)		
mature leaves	154C,150C	146A
new leaves	138A,141A	200A,137A
INTERNODE LENGTH top (mm)		
mean	9.93	20.80
std deviation	2.30	5.88
LSD/sig	4.11	P≤0.001
INTERNODE LENGTH second (mm)		
mean	12.30	31.00
std deviation	2.91	7.00
LSD/sig	4.9.3	P≤0.001
FLOWER COLOUR		
	72B	72B

ROSE
Rosa

'Ausbloom' syn The Dark Lady

Application No. 95/146 Accepted: 19 Jun 1995.
Applicant: **David Austin Roses**, Wolverhampton, England.
Agent: **The Perfumed Garden**, Mt Eliza, VIC.

Description (Table 45, Figure 14) Plant: growth habit upright, bushy shrub rose. Stem: thorn length most over 5mm, density moderate, shape upper profile flat, lower profile slightly concave. Young vegetative shoot: anthocyanin colouration weak, hue reddish brown. Leaf: size medium, colour light to medium green, glossiness very weak to weak. Terminal leaflet: length medium, base shape cordate, cross-section slightly concave, undulation of margin nil to weak, petiolule length short. Flower pedicel: thorns very few near base, glandular hairs few, stiff, fine hairs absent. Flower bud: shape ovate. Flower: cluster singles or cluster of 2-3, type double, size large to very large, view from above rounded, upper profile flattened convex, lower profile flat to flattened convex, fragrance medium to strong, sepal extensions weak, petal number very many, size medium to large, shape obovate, colour midzone inside RHS 74A/RHS 67A, midzone outside near RHS 74C, margin inside RHS 74A, margin outside near RHS 74C, basal spot inside and outside present, small, colour RHS 7A, reflexing of margin weak, undulation of margin weak, stamen filament colour yellow, style colour pale yellow, stigma much higher than anther, flowering remontant. Seed vessel: size medium, shape pitcher.

Origin Controlled pollination: 'Ausmary' syn 'Mary Rose' x 'Auspero' syn 'Prospero'. Breeder: David CH Austin, Wolverhampton, England. Selection Criteria: growth habit, flower conformation, colour, fragrance. Propagation: vegetative through numerous generations.

Comparative Trial Comparator: 'Othello'. Location: Moorooduc, VIC, Autumn 1996. Conditions: variety budded onto virus tested *Rosa multiflora* rootstock in 1994, transferred to 300mm pots filled with a pinebark based potting mixture in Jul 1995, and held in a non-heated greenhouse until Nov 1995 when trial set up in a wind protected outdoor area, nutrition maintained with slow release fertilisers and liquid feeds, sprayed regularly to ensure good health. Trial design: randomised block of pots to provide a minimum of 10 mature plants each of the variety and comparator. Measurements: minimum of 20 taken at random from all plants.

Prior Applications and Sales

Country	Year	Status	Name Applied
England	1992	Granted	'Ausbloom'
USA	1994	Granted	'Ausbloom'

First sold England 1991.

Description: **Brian Hanger, Hanger Corporation Pty Ltd**, Monbulk, VIC.

Table 45 *Rosa* varieties

	'Ausbloom'	**'Othello'
THORN LENGTH (mm)		
mean	7.5	10.6
std deviation	1.0	1.3
LSD/sig	1.0	P≤0.01
LEAF INTENSITY OF GREEN		
	light to medium	dark
LEAF GLOSSINESS		
upper side	weak to very weak	medium
TERMINAL LEAFLET BASE		
shape	cordate	weakly cordate
TERMINAL LEAFLET PETIOLULE LENGTH (mm)		
mean	14.8	18.4
std deviation	2.3	2.8
LSD/sig	2.1	P≤0.01
SEPAL EXTENSIONS		
	weak	strong
PETAL COLOUR (RHS)		
midzone		
outside	74C	63A
inside	74A/67A	66A/66B
margin		
outside	74C	63A
inside	74A	67A

'Ausbreak' syn Jayne Austin

Application No. 94/044 Accepted: 14 Feb 1994.
Applicant: **David Austin Roses**, Wolverhampton, England.
Agent: **The Perfumed Garden**, Mt Eliza, VIC.

Description (Table 46, Figure 12) Plant: growth habit upright, bushy shrub. Stem: colour green, thorn size large over 5mm, density light, uniformly spaced, shape upper profile concave, lower profile strongly concave. Young vegetative shoot: anthocyanin colouration weak, hue reddish brown. Leaf: size medium, colour light green, glossiness medium. Terminal leaflet: length medium, shape towards orbicular, base shape round, cross section concave, undulation of margin weak, petiolule length medium. Flower pedicel: glandular hairs density medium, stiff, fine hairs absent, thorns present sometimes, size small, located towards base. Flower bud: shape round. Flower: cluster small terminal (2-3), type double, size medium to large, view from above round, upper profile flattened convex, lower profile flat to flattened convex, fragrance medium, sepal colour light green, extensions weak, petal number very many 80-90, size medium to large, shape cup shaped when young, colour inside midzone RHS 11A, outside midzone RHS 12C, inside margin RHS 14D, outside margin RHS 12C, inside basal spot not distinct, base colour RHS 9B, outside basal spot not distinct, base colour RHS 9C, reflexing of margin weak, undulation of margin very weak, stamen filament colour yellow, style colour yellow, stigma higher than anther, flowering remontant. Seed vessel: size medium, shape pitcher with tendency towards pear.

Origin Controlled pollination: 'Ausmas' syn 'Graham Thomas' x 'Tamora'. Breeder: David CH Austin of Wolverhampton, England. Selection Criteria: growth habit, flower conformation, colour, fragrance. Propagation: vegetative through numerous generations.

Comparative Trial Comparator: 'Ausmas'. Location: Moorooduc, VIC, Autumn 1996. Conditions: variety budded onto virus tested *Rosa multiflora* rootstock in 1994, transferred to 300mm pots filled with a pinebark based potting mixture in Jul 1995, and held in a non-heated greenhouse until Nov 1995 when trial set up in a wind protected outdoor area, nutrition maintained with slow release fertilisers and liquid feeds, sprayed regularly to ensure good health. Trial design: randomised block of pots to provide a minimum of 10 mature plants each of the variety and comparator. Measurements: minimum of 20 taken at random from all plants.

Prior Applications and Sales

Country	Year	Status	Name Applied
England	1993	Granted	'Jayne Austin'

First sold England 1990.

Description: **Brian Hanger, Hanger Corporation Pty Ltd**, Monbulk, VIC.

Table 46 *Rosa* varieties

	'Ausbreak'	*'Ausmas'
THORN LENGTH (mm)		
mean	7.3	6.2
std deviation	0.7	0.8
LSD/sig	0.6	P≤0.01
LEAF GLOSSINESS		
upperside	medium	weak
TERMINAL LEAFLET BASE		
shape	round	obtuse
TERMINAL LEAFLET PETIOLULE LENGTH (mm)		
mean	18.8	16.6
std deviation	2.5	1.9
LSD/sig	1.8	P≤0.01
FLOWER DIAMETER (mm) fully open		
mean	88.3	98.6
std deviation	7.1	8.9
LSD/sig	5.9	P≤0.01
SEPAL LENGTH (mm)		
mean	26.7	24.8
std deviation	1.8	2.0
LSD/sig	1.3	P≤0.01
SEPAL EXTENSIONS		
	weak	weak-medium
PETAL COLOUR (RHS)		
midzone		
outside	12C	11B
inside	11A	5D
margin		
outside	12C	9D
inside	14D	5D
STIGMA COLOUR		
	yellow	very pale green
STIGMA TO ANTHER HEIGHT		
	above	slightly below

'Ausreef' syn Sharifa Asma

Application No. 94/043 Accepted: 14 Feb 1994.
Applicant: **David Austin Roses**, Wolverhampton, England.
Agent: **The Perfumed Garden**, Mt Eliza, VIC.

Description (Table 47, Figure 11) Plant: growth habit upright, bushy shrub. Stem: colour green, thorn size long (over 5mm) and short, density medium, shape upper profile predominantly flat, lower profile strongly concave. Young vegetative shoot: anthocyanin colouration medium, hue purplish red. Leaf: size medium, colour medium green, glossiness weak. Terminal leaflet: length medium, base shape cordate, cross section slightly concave, undulation of margin medium, petiolule length medium. Flower pedicel: glandular hairs density medium, stiff, fine hairs absent. Flower bud: shape ovate. Flower: cluster terminal, type double, size medium to large, view from above irregularly round, upper profile flattened convex, lower profile flat, fragrance strong, sepal anthocyanin colouration weak, hue brownish red, extensions weak, petal number many,

size medium to large, colour similar both surfaces, midzone RHS 49A, margin RHS 56D, soft pink gives way to pale yellow towards petal base, no distinct basal spot, colour at base RHS 2D, reflexing of margin very weak, undulation of margin weak, stamen filament colour very pale yellow, style colour very pale green, stigma lower than anther, flowering remontant. Seed vessel: size medium, shape pitcher.

Origin Controlled pollination: 'Ausmary' syn 'Mary Rose' x 'Admired Miranda'. Breeder: David CH Austin, Wolverhampton, England. Selection Criteria: growth habit, flower conformation, colour, fragrance. Propagation: vegetative through numerous generations.

Comparative Trial Comparator: 'Chaucer'. Location: Moorooduc, VIC, Autumn 1996. Conditions: variety budded onto virus tested *Rosa multiflora* rootstock in 1994, transferred to 300mm pots filled with a pinebark based potting mixture in Jul 1995, and held in a non-heated greenhouse until Nov 1995 when trial set up in a wind protected outdoor area, nutrition maintained with slow release fertilisers and liquid feeds, sprayed regularly to ensure good health. Trial design: randomised block of pots to provide a minimum of 10 mature plants each of the variety and comparator. Measurements: minimum of 20 taken at random from all plants.

Prior Applications and Sales

Country	Year	Status	Name Applied
England	1992	Granted	'Ausreef'

First sold England, Nov 1989.

Description: **Brian Hanger, Hanger Corporation Pty Ltd**, Monbulk, VIC.

Table 47 *Rosa* varieties

	'Ausreef'	*'Chaucer'
THORN LENGTH (mm)		
mean	6.3	7.9
std deviation	0.6	1.1
LSD/sig	0.7	P≤0.01
YOUNG SHOOT ANTHOCYANIN		
hue	purplish red	green
TERMINAL LEAFLET LENGTH (mm) first or second true leaf down from flower cluster		
mean	50.0	61.2
std deviation	4.4	4.1
LSD/sig	3.2	P≤0.01
TERMINAL LEAFLET WIDTH (mm)		
mean	34.8	44.3
std deviation	3.1	2.5
LSD/sig	2.6	P≤0.01
SEPAL LENGTH (mm)		
mean	23.7	29.0
std deviation	1.6	2.6
LSD/sig	1.5	P≤0.01
PETAL COLOUR (RHS)		
midzone		
inside	49D	56D
STAMEN FILAMENT COLOUR		
	pale yellow	yellow

'Ausvelvet' syn The Prince

Application No. 94/042 Accepted: 14 Feb 1994.
Applicant: **David Austin Roses**, Wolverhampton, England.
Agent: **The Perfumed Garden**, Mt Eliza, VIC.

Description (Table 48, Figure 10) Plant: growth habit bush rose, width broad. Stem: thorn size mixed, density medium, shape upper and lower profiles concave. Young vegetative shoot: colour green, colour young leaves, thorns red. Leaf: size medium, colour medium to dark green, glossiness semi-gloss upper surface. Terminal leaflet: length medium, base shape obtuse, cross section slightly concave to flat, undulation of margin weak, petiolule length medium. Flower pedicel: glandular hairs density low, stiff, sometimes small thorns. Flower bud: shape ovate. Flower: cluster predominantly singles, type double, size medium to large, view from above irregularly round, upper profile flattened convex, lower profile flat or flattened convex, fragrance strong, sepal extensions medium, some with leafy extremities, petal number very many, size medium, colour inside midzone near RHS 61A, outside midzone near RHS 64A, inside margin near RHS 61A, outside margin near RHS 64A, inside basal spot very small, whitish, RHS 155A, outside basal spot very small, very pale yellow RHS 4D, inner surface with velvety texture, reflexing of margin strong, undulation of margin weak, stamen filament colour pale yellow with reddish streaks, style colour pale green with some red streaks, stigma slightly above anther, flowering remontant. Seed vessel: size small, shape funnel.

Origin Controlled pollination: 'Lilian Austin' x 'The Squire'. Breeder: David CH Austin, Wolverhampton, England. Selection Criteria: growth habit, flower conformation, colour, fragrance. Propagation: vegetative through numerous generations.

Comparative Trial Comparator: 'The Knight'. Location: Moorooduc, VIC, Autumn 1996. Conditions: variety budded onto virus tested *Rosa multiflora* rootstock in 1994, transferred to 300mm pots filled with a pinebark based potting mixture in Jul 1995, and held in a non-heated greenhouse until Nov 1995 when trial set up in a wind protected outdoor area, nutrition maintained with slow release fertilisers and liquid feeds, sprayed regularly to ensure good health. Trial design: randomised block of pots to provide a minimum of 10 mature plants each of the variety and comparator. Measurements: minimum of 20 taken at random from all plants.

Prior Applications and Sales

Country	Year	Status	Name Applied
England	1992	Granted	'Ausvelvet'

First sold England, Nov 1990.

Description: **Brian Hanger, Hanger Corporation Pty Ltd**, Monbulk, VIC.

Table 48 *Rosa* varieties

	'Ausvelvet'	*'The Knight'
THORN LENGTH (mm)		
mean	7.9	5.3
std deviation	1.0	0.9
LSD/sig	0.7	P≤0.01
TERMINAL LEAFLET LENGTH (mm) first or second true leaf down from flower cluster		
mean	46.6	58.7
std deviation	4.8	4.7
LSD/sig	4.0	P≤0.01
TERMINAL LEAFLET WIDTH (mm)		
mean	35.5	44.1
std deviation	3.0	2.9
LSD/sig	1.9	P≤0.01
TERMINAL LEAFLET BASE		
shape	obtuse	round/cordate
FLOWER DIAMETER (mm) fully open		
mean	92.4	100.4
std deviation	4.5	4.0
LSD/sig	2.8	P≤0.01
SEPAL LENGTH (mm)		
mean	29.9	23.5
std deviation	3.1	2.2
LSD/sig	2.2	P≤0.01
SEPAL EXTENSIONS		
	medium	strong
PETAL NUMBER		
	very many	many
PETAL COLOUR (RHS)		
midzone		
outside	near 64A	61B/64B
inside	near 61A	61B
margin		
outside	near 64A	61B/64B
inside	near 61A	near 61B
BASAL SPOT		
presence	present	absent
size	small	-
STAMEN FILAMENT COLOUR		
	pale yellow	red

'Auswalker' syn **The Pilgrim**

Application No. 95/147 Accepted: 19 Jun 1995.
Applicant: **David Austin Roses**, Wolverhampton, England.
Agent: **The Perfumed Garden**, Mt Eliza, VIC.

Description (Table 49, Figure 15) Plant: growth habit upright to bushy shrub rose. Stem: colour green, thorn size large, density moderate, shape upper profile flat, lower profile slightly concave, colour red. Young vegetative shoot: anthocyanin colouration weak, hue reddish brown. Leaf: size small to medium, colour medium green. Terminal leaflet: length medium, base shape round, cross section concave, undulation of margin weak, glossiness dull, petiolule length medium. Flower pedicel: glandular hairs many, both stiff and fine hairs many. Flower bud: shape round. Flower: cluster small, terminal, type double, size large, view from above rounded, upper profile flat, lower profile convex, fragrance medium, sepal extensions weak, petal number very many, size medium to large, shape obovate, colour inside midzone RHS 4D, outside midzone RHS 4D, inside margin RHS 155D, outside margin RHS 155D, inside basal spot present, small, colour RHS 4B, outside basal spot present, very small to small, colour RHS 4B, reflexing of margin weak, undulation of margin nil to little. Stamen: filament predominantly yellow, style yellowish green, very hairy, stigma higher than anther, flowering remontant. Seed vessel: size medium, funnel shape.

Origin Controlled pollination: 'Ausmas' syn 'Graham Thomas' x 'Yellow Button'. Breeder: David CH Austin, Wolverhampton, England. Selection Criteria: growth habit, flower conformation, colour, fragrance. Propagation: vegetative through numerous generations.

Comparative Trial Comparator: 'Ausmas'. Location: Moorooduc, VIC, Autumn 1996. Conditions: variety budded onto virus tested *Rosa multiflora* rootstock in 1994, transferred to 300mm pots filled with a pinebark based potting mixture in Jul 1995, and held in a non-heated greenhouse until Nov 1995 when trial set up in a wind protected outdoor area, nutrition maintained with slow release fertilisers and liquid feeds, sprayed regularly to ensure good health. Trial design: randomised block of pots to provide a minimum of 10 mature plants each of the variety and comparator. Measurements: minimum of 20 taken at random from all plants.

Prior Applications and Sales

Country	Year	Status	Name Applied
England	1989	Granted	'Auswalker'
USA	1994	Granted	'Auswalker'

First sold England, 1991.

Description: **Brian Hanger, Hanger Corporation Pty Ltd**, Monbulk, VIC.

Table 49 *Rosa* varieties

	'Auswalker'	*'Ausmas'
THORN LENGTH (mm)		
mean	8.8	6.2
std deviation	1.0	0.8
LSD/sig	0.7	P≤0.01
LEAF COLOUR		
green	medium	light
LEAF GLOSSINESS		
upper side	dull	weak
TERMINAL LEAFLET BASE		
shape	round	obtuse
TERMINAL LEAFLET PETIOLULE LENGTH (mm)		
mean	18.9	16.6
std deviation	2.5	1.9
LSD/sig	1.8	P≤0.01

Table 49 *Rosa* Varieties - continued

FLOWER PEDICEL		
thorns etc	many	few
BUD SHAPE		
	round	ovate
SEPAL EXTENSIONS		
	weak	weak-medium
PETAL COLOUR (RHS)		
midzone		
outside	4D	11B
inside	4D	5D
margin		
outside	155D	9D
inside	155D	5D
STIGMA COLOUR		
	yellowish green	very pale green
STIGMA TO ANTHER HEIGHT		
	above	slightly below

'Auswonder' syn **Ambridge Rose**

Application No. 94/045 Accepted: 14 Feb 1994.
Applicant: **David Austin Roses**, of Wolverhampton, England.
Agent: **The Perfumed Garden**, Mt Eliza, VIC.

Description (Table 50, Figure 13) Plant: growth habit bushy bed rose, height short. Stem: thorn size medium to large around 5mm, density light, uniformly spaced, shape upper profile slightly concave to flat, lower profile strongly concave. Young vegetative shoot: anthocyanin colouration weak, hue reddish brown. Leaf: size medium, colour green, glossiness very weak. Terminal leaflet: length medium, base shape round, cross section slightly concave, undulation of margin weak, petiolule length medium. Flower pedicel: colour green, glandular hairs density low, stiff. Flower bud: shape ovate. Flower: cluster predominantly terminal single blooms occassionally small clusters, type double, size medium to large, view from above irregularly round, upper profile flattened convex, lower profile flat, cup shaped when young, fragrance medium, sepal colour light green, extensions weak to medium, petal number very many, size medium, colour both surfaces midzone and margin RHS 29D, tones to yellow at base RHS 3C, reflexing of margin very weak, undulation of margin weak, stamen filament colour pale yellow, style colour yellow to yellowish green, stigma above anther, flowering remontant. Seed vessel: size medium, shape pitcher.

Origin Controlled pollination: 'Charles Austin' x 'unnamed seedling'. Breeder: David CH Austin of Wolverhampton, England. Selection Criteria: growth habit and flower conformation, colour and fragrance. Propagation: vegetatively through numerous generations.

Comparative Trial Comparator: 'Tamora'. Location: Moorooduc, VIC, Autumn 1996. Conditions: variety budded onto virus tested *Rosa multiflora* rootstock in 1994, transferred to 300mm pots filled with a pinebark based potting mixture in Jul 1995, and held in a non-heated greenhouse until Nov 1995 when trial set up in a wind protected outdoor area, nutrition maintained with slow release fertilisers and liquid feeds, sprayed regularly to ensure good health. Trial design: randomised block of pots to provide a minimum of 10 mature plants each of the variety and comparator. Measurements: minimum of 20 taken at random from all plants.

Prior Applications and Sales Nil.

First sold England, 1990.

Description: **Brian Hanger, Hanger Corporation Pty Ltd**, Monbulk, VIC.

Table 50 *Rosa* varieties

	'Auswonder'	*'Tamora'
SHOOT THORNS		
number	few	many
THORN LENGTH (mm)		
mean	5.4	8.5
std deviation	0.7	1.3
LSD/sig	0.7	P≤0.01
TERMINAL LEAFLET LENGTH (mm) first or second true leaf down from flower cluster		
mean	40.6	51.3
std deviation	4.2	5.2
LSD/sig	3.4	P≤0.01
TERMINAL LEAFLET WIDTH (mm)		
mean	31.0	37.3
std deviation	2.5	3.2
LSD/sig	2.1	P≤0.01
TERMINAL LEAFLET BASE		
shape	round	slightly cordate
FLOWER DIAMETER (mm) fully open		
mean	105.8	91.5
std deviation	8.7	5.0
LSD/sig	4.5	P≤0.01
SEPAL LENGTH (mm)		
mean	21.7	23.9
std deviation	1.3	2.7
LSD/sig	1.5	P≤0.01
SEPAL EXTENSIONS		
	medium	weak-medium
PETAL COLOUR (RHS)		
midzone		
outside	29D	14B
inside	29D	23D
margin		
outside	29D	14B
inside	29D	23D
STAMEN FILAMENT COLOUR		
	pale yellow	yellow
STYLE COLOUR		
	yellow	pale green

'Benmagic' syn Pirouette

Application No: 95/209 Accepted: 4 Sep 1995.
Applicant: **Harlane Rose Specialists**, English Town, New Jersey, USA.
Agent: **Kay D Tee**, Silvan, VIC.

Description (Table 51, Figure 3) Plant: bushy, broad, medium headed miniature rose. Stem: smooth, green, thorns lower side deeply concave. Young vegetative shoot: hue of anthocyanin bronze to reddish brown. Leaf: leaflet number 5-7. Terminal leaflet: length 38-48mm, width 24-26mm, size medium, base shape obtuse. Flower Bud: broad-ovate. Flower: semi-double, view from above irregularly round, upper profile flat, lower profile flattened convex, fragrance weak, sepal extensions weak to medium, petal number medium 23-40, size small, colour midzone inside RHS 155B, midzone outside RHS 155B, margin inside 65B, margin outside 75D, reflexing of margin weak, undulation of margin strong, filament colour white. Seed vessel: small, pitcher-shaped.

Origin Controlled Pollination: 'Dickmickey' x 'Tinseltown', 1990. Breeder: Frank A Benardella, English Town, New Jersey, USA. Selection Criteria: flower colour, bud shape, bush form, vigour. Propagation: cuttings through numerous generations.

Comparative Trials Comparator: 'Meibarke'(D). Location: Silvan, VIC Sep 1994 - Aug 1996. Conditions: plants raised hydroponically in pots of Scoria under controlled environment plastic house conditions, Polythene cover of 'Progro MF' with 6% UVA, minimum temperature of 16°C degrees in Jul 1996. Trial design: randomised complete block. Measurements: taken from 10 specimens selected at random from 20 plants.

Prior Applications and Sales

Country	Year	Status	Name Applied
USA	1994	Granted	'Benmagic'

First sold USA 1993.

Description: **Christopher Prescott, Prescott Roses Pty Ltd** , Berwick, VIC.

Table 51 *Rosa* varieties

	'Benmagic'	*'Meibarke'(D)
YOUNG SHOOT ANTHOCYANIN		
colouration	medium	medium
hue	bronze - reddish brown	reddish brown - purple
LEAF LENGTH (mm)		
mean	78.4	51.4
std deviation	7.85	5.40
LSD/sig	12.33	P≤0.01
TERMINAL LEAFLET LENGTH (mm)		
mean	42.7	27.40
std deviation	3.55	1.57
LSD/sig	5.03	P≤0.01
TERMINAL LEAFLET WIDTH (mm)		
mean	24.7	18.2
std deviation	1.00	1.35
LSD/sig	2.18	P≤0.01
FLOWER DIAMETER (mm)		
mean	44.7	54.38
std deviation	2.21	4.29
LSD/sig	7.58	P≤0.01
	small	large
LEAF		
green colour at first flowering	medium	dark
glossiness of upper side	medium	weak
PETAL SIZE	small	medium
PETAL COLOUR (RHS)		
midzone inside	155B	157B
midzone outside	155B	157C
margin inside	65B	66A-B
margin outside	75D	66B
BASAL SPOT	absent	present
PETAL MARGIN		
reflexing	weak	medium
undulation	strong	medium
COLOUR OF FILAMENT	white	yellow

'Benmoon' syn Moon River

Application No: 95/210 Accepted: 5 Sep 1995.
Applicant: **Harlane Rose Specialists**, English Town, New Jersey, USA.
Agent: **Kay D Tee**, Silvan, VIC.

Description (Table 52, Figure 4) Plant: bushy, upright, large headed miniature rose. Stem: smooth, colour green, thorns few, lower side deeply concave. Young vegetative shoot: anthocyanin hue bronze to reddish brown. Leaf: leaflet number 5-7. Terminal leaflet: length 29-46mm, width 18-24mm, size medium, shape base obtuse. Flower Bud: broad-ovate. Flower: double, view from above irregularly round, upper profile flattened convex, lower profile flattened convex, sepal extensions weak, petal size large, number 32-58, colour midzone inside RHS 76C, midzone outside RHS 76D, margin inside 76C, margin outside 76D, basal spot inside 155D, basal spot outside 155D, basal spot size very small, reflexing of margin strong, undulation of margin strong, fragrance strong, filament colour white. Seed vessel: size small, pitcher-shaped.

Origin Controlled Pollination: 'Lavender Jade' x 'Laguna', 1990. Breeder: Frank A Benardella of English Town, New Jersey, USA. Selection Criteria: flower colour, bud shape, bush form, vigour. Propagation: cuttings through numerous generations.

Comparative Trial Comparator: 'Benorchid'. Location: Silvan, VIC Sep 1994 - Aug 1996. Conditions: plants

raised hydroponically in pots of Scoria under controlled environment plastic house conditions, Polythene cover of 'Progro MF' with 6% UVA, minimum temperature of 16°C degrees in Jul 1996. Trial design: randomised complete block. Measurements: taken from 10 specimens selected at random from 20 plants

Prior Applications and Sales Nil.

First sold New Zealand 1994.

Description: **Christopher Prescott, Prescott Roses Pty Ltd** , Berwick, VIC.

Table 52 *Rosa* varieties

	'Benmoon'	*'Benorchid'
YOUNG SHOOT ANTHOCYNIN		
colouration	weak	medium
hue	bronze - reddish brown	reddish brown
PRICKLES SHAPE		
lower side	deep concave	concave
SHORT PRICKLES NUMBER	very few	medium
LEAF		
green colour		
at first flowering	medium	dark
glossiness		
upper side	absent	medium
cross section	flat	slight concave
undulation		
of margin	absent	very weak
PETAL COLOUR (RHS)		
midzone inside	76C	77D
midzone outside	76D	75D
margin inside	76C	77C
margin outside	76D	75D
BASAL SPOT COLOUR (RHS)	155D	155B
SEPAL EXTENSIONS	weak medium	strong
PETAL UNDULATION OF MARGIN	strong	weak

'Korbacol' syn Texas

Application No. 94/092 Accepted: 26 Apr 1994.
Applicant: **W Kordes Sohne Rosenschulen GmbH & Co KG**, Offenseth-Sparrieshoop, Germany.
Agent: **Treloar Roses Pty Ltd**, Heathmere via Portland, VIC.

Description (Table 53, Figure 16) Plant: growth habit upright bushy shrub. Stem: colour green or weakly reddish brown, thorn size large over 5mm and small, density light and moderate respectively, uniformly spaced, shape upper profile flat, lower profile strongly concave. Young vegetative shoot: anthocyanin colouration weak to medium, hue reddish brown. Leaf: size medium to large, medium green, glossiness weak. Terminal leaflet: length medium, base shape obtuse, cross section slightly concave to flat, undulation of margin weak, petiolule length medium. Flower pedicel: stiff glandular hairs density medium, fine glandular hairs density low. Flower bud: shape ovate. Flower: cluster predominantly single terminal blooms or small clusters of 2-3, type double, size medium to large, view from above irregularly round, upper profile flattened convex, lower profile flat, fragrance weak, sepal colour light green, extensions medium some with small leafy extremities, petal number many, size medium, shape broad obovate, colour inside midzone midzone RHS 12B, outside midzone RHS 12C, inside margin margin RHS 12B, outside margin RHS 12C, inside and outside basal spot absent, outside basal spot absent, reflexing of margin strong, undulation of margin weak, stamen filament colour yellow, style colour greenish yellow, hairs many, stigma same height as anther, flowering remontant. Seed vessel: size medium, shape pitcher.

Origin Controlled pollination: 'Berolina' x 'Cocktail'. Breeder: W Kordes and Son Offenseth-Sparrieshoop, Germany. Selection Criteria: growth habit, attractive yellow flower, suitable as a cut flower. Propagation: vegetatively through numerous generations.

Comparative Trial Comparator: 'Frisco'. Location: Silvan South, VIC (Latitude 35°50' south, elevation 220m), Autumn 1996. Conditions: trial conducted in an environmentally controlled greenhouse, plants propagated from cuttings, when rooted established in 300mm pots filled with a soilless medium (scoria) and fed hydroponically, trained and pruned by modern techniques used for cut flower production. Trial design: grown in single rows in blocks along with other varieties, minimum of 10 mature plants per variety. Measurements: minimum of 20 taken at random from all plants.

Prior Applications and Sales

Country	Year	Status	Name Applied
France	1989	Granted	'Korbacol'
Germany	1990	Granted	'Korbacol'
Belgium	1991	Pending	'Korbacol'
Italy	1991	Pending	'Korbacol'
Great Britain	1992	Granted	'Korbacol'
Holland	1992	Granted	'Korbacol'

First sold France 1988.

Description: **Brian Hanger, Hanger Corporation Pty Ltd**, Monbulk, VIC.

Table 53 *Rosa* varieties

	'Korbacol'	*'Frisco'
TERMINAL LEAFLET BASE		
shape	obtuse	obtuse to round
TERMINAL LEAFLET PETIOLULE LENGTH (mm)		
mean	18.9	28.3
std deviation	2.5	2.7
LSD/sig	2.1	P≤0.01
FLOWER PEDICEL		
thorns/prickles	many	few

Table 53 *Rosa* Varieties - continued

FLOWER DIAMETER (mm) fully open		
mean	111.2	91.4
std deviation	7.9	6.3
LSD/sig	5.7	P≤0.01
SEPAL EXTENSIONS		
	medium	medium-strong
PETAL COLOUR (RHS)		
midzone		
outside	12C	15B
inside	12B	13B
margin		
outside	12C	15B
inside	12B	13B
STAMEN FILAMENT COLOUR		
	yellow	dark yellow

'Korcilmo' syn Escimo

Application No. 94/093 Accepted: 26 Apr 1994.
Applicant: **W Kordes Sohne Rosenschulen GmbH & Co KG**, Offenseth-Sparrieshoop, Germany.
Agent: **Treloar Roses** Pty Ltd, Heathmere via Portland, VIC.

Description (Table 54, Figure 21) Plant: growth habit upright bushy shrub. Stem: colour green, thorn size large, density medium, few short thorns, uniformly spaced, shape upper and lower profile concave. Young vegetative shoot: anthocyanin colouration weak, hue purplish red. Leaf: size medium to large, colour medium green, glossiness weak. Terminal leaflet: length medium to long, base shape round to slightly cordate, cross section flat to slightly concave, undulation of margin very weak, petiolule length medium. Flower pedicel: smooth, few fine hairs. Flower bud: shape ovate. Flower: cluster predominantly single terminal blooms, or small clusters, type double, size medium to large, view from above irregularly round, upper profile flattened convex, lower profile flat, fragrance weak, sepal colour light green, extensions weak, petal number many, size medium, colour inside midzone RHS 155B, outside midzone RHS 155B, inside margin RHS 155A/B, outside margin RHS 155B, inside and outside basal spot absent, outside basal spot absent, reflexing of margin strong, undulation of margin weak, stamens filament colour white, style colour white stained red near stigma, hair density light, stigma below anther, flowering remontant. Seed vessel: size small to medium, shape pitcher.

Origin Controlled pollination: 'Lorena' x 'Champagner'. Breeder: W Kordes and Son, Offenseth-Sparrieshoop, Germany. Selection Criteria: growth habit, attractive white flower, suitable as a cut flower. Propagation: vegetatively through numerous generations.

Comparative Trial Comparator: 'Bridal White'. Location: Silvan South, VIC (Latitude 35°50' south, elevation 220m), Autumn 1996. Conditions: trial conducted in an environmentally controlled greenhouse, plants propagated from cuttings, when rooted established in 300mm pots filled with a soilless medium (scoria) and fed hydroponically, trained and pruned by modern techniques used for cut flower production. Trial design: grown in single rows in blocks along with other varieties, minimum of 10 mature plants per variety. Measurements: minimum of 20 taken at random from all plants.

Prior Applications and Sales

Country	Year	Status	Name Applied
Belgium	1991	Pending	'Korcilmo'
Germany	1991	Granted	'Korcilmo'
England	1991	Pending	'Korcilmo'
Holland	1991	Granted	'Korcilmo'
Switzerland	1992	Granted	'Korcilmo'
Denmark	1992	Granted	'Korcilmo'

First sold Holland, 1990.

Description: **Brian Hanger, Hanger Corporation Pty Ltd**, Monbulk, VIC.

Table 54 *Rosa* varieties

	'Korcilmo'	*'Bridal White'
LEAF UNDULATIONS		
	very weak	medium
TERMINAL LEAFLET BASE		
shape	round/cordate	wedge
FLOWER DIAMETER (mm) fully open		
mean	89.4	102.4
std deviation	4.7	6.6
LSD/sig	4.4	P≤0.01
SEPAL LENGTH (mm)		
mean	28.8	35.1
std deviation	2.6	2.2
LSD/sig	1.83	P≤0.01
PETAL NUMBER		
	many	very many
PETAL COLOUR (RHS)		
midzone		
outside	155B	155A
inside	155B	155A
margin		
outside	155B	155A
inside	155A/B	155A
STAMEN FILAMENT COLOUR		
	white	pale yellow green

'Korcrisett' syn Calibra

Application No. 94/090 Accepted: 26 Apr 1994.
Applicant: **W Kordes Sohne Rosenschulen GmbH & Co KG**, Offenseth-Sparrieshoop, Germany.
Agent: **Treloar Roses Pty Ltd**, Heathmere via Portland, VIC.

Description (Table 55, Figure 19) Plant: growth habit upright bushy bed rose. Stem: colour green or weakly reddish brown, thorn size medium to large, density very low, uniformly spaced, shape upper profile flat to slightly concave, lower profile strongly concave. Young vegetative shoot: anthocyanin colouration medium, hue reddish brown, young leaves purplish red. Leaf: size small to

medium, colour medium green, glossiness weak. Terminal leaflet: length medium, base shape round, cross section slightly concave, undulation of margin weak, petiolule length small to medium. Flower pedicel: surface smooth, occasional stiff glandular hair. Flower bud: shape ovate. Flower: cluster predominantly single terminal blooms, type double, size medium, view from above irregularly round, upper profile flattened convex, lower profile flat, fragrance very weak, sepal colour light green, extensions medium, some small leafy extremities, petal number many, size medium, shape, colour inside midzone RHS 40A, outside midzone RHS 48B, inside margin RHS 40A, outside margin RHS 48B, inside basal spot size small, pale yellow RHS 4D, outside basal spot size medium, diffusive edge, RHS 4D, reflexing of margin strong, undulation of margin weak, stamens filament length short, colour yellowish green stained red, style colour whitish green stained red, stigma above anther, flowering remontant. Seed vessel: size small to medium, shape pitcher.

Origin Controlled pollination: unnamed seedling x unnamed seedling. Breeder: W Kordes and Son Offenseth-Sparrieshoop, Germany. Selection Criteria: growth habit, attractive orange red flower, suitable as a cut flower. Propagation: vegetatively through numerous generations.

Comparative Trial Comparator: 'Kordaba'(syn 'Lambada'). Location: Silvan South, VIC (Latitude 35°50' south, elevation 220m), Autumn 1996. Conditions: trial conducted in an environmentally controlled greenhouse, plants propagated from cuttings, when rooted established in 300mm pots filled with a soilless medium (scoria) and fed hydroponically, trained and pruned by modern techniques used for cut flower production. Trial design: grown in single rows in blocks along with other varieties, minimum of 10 mature plants per variety. Measurements: minimum of 20 taken at random from all plants.

Prior Applications and Sales

Country	Year	Status	Name Applied
Germany	1992	Granted	'Korcrisett'
Belgium	1992	Pending	'Korcrisett'
England	1992	Pending	'Korcrisett'
Switzerland	1993	Granted	'Korcrisett'
Italy	1993	Granted	'Korcrisett'
Holland	1993	Granted	'Korcrisett'

First sold Germany 1992.

Description: **Brian Hanger, Hanger Corporation Pty Ltd**, Monbulk, VIC.

Table 55 *Rosa* varieties

	'Korcrisett'	*'Kordaba'
LEAF SIZE	small/medium.	medium/large
TERMINAL LEAFLET BASE		
shape	round	obtuse
TERMINAL LEAFLET PETIOLULE LENGTH (mm)		
mean	14.3	22.1
std deviation	2.4	2.4
LSD/sig	2.2	P≤0.01
SEPAL LENGTH (mm)		
mean	26.2	37.5
std deviation	2.9	3.0
LSD/sig	2.7	P≤0.01
PETAL COLOUR (RHS)		
midzone		
outside	48B	30C
inside	40A	33C
margin		
outside	48B	35B
inside	40A	33C
BASAL SPOT COLOUR	pale yellow	bright yellow
STAMEN FILAMENT COLOUR	stained red	bright yellow
STIGMA TO ANTHER HEIGHT	above	below

'Kordaba' syn Lambada

Application No. 94/089 Accepted: 26 Apr 1994.
Applicant: **W Kordes Sohne Rosenschulen GmbH & Co KG**, Offenseth-Sparrieshoop, Germany.
Agent: **Treloar Roses Pty Ltd**, Heathmere via Portland, VIC.

Description (Table 56, Figure 18) Plant: growth habit upright bushy bed rose. Stem: colour green, thorn size large, density medium, uniformly spaced, shape upper profile flat to slightly concave, lower profile strongly concave. Young vegetative shoot: anthocyanin colouration weak to medium, hue reddish purple. Leaf: size medium to large, colour medium to dark green, anthocyanin hue lower surface reddish brown, glossiness weak. Terminal leaflet: size medium to large, base shape obtuse to round, cross section slightly concave to flat, undulation of margin weak, petiolule length medium. Flower pedicel: smooth, occassional stiff glandular hairs. Flower bud: size, shape ovate. Flower: cluster predominantly single terminal blooms, type double, size medium to large, view from above irregularly round, upper profile flattened convex, lower profile flat, fragrance weak, sepal colour light green, extensions medium to strong, some small leafy extremities, petal number many, size medium, colour inside midzone RHS 33C, outside midzone RHS 30C, inside margin RHS 33C, outside margin RHS 35B, inside basal spot medium size, strong yellow RHS 12A, outside basal spot size medium , colour strong yellow RHS 12A, reflexing of margin strong, undulation of margin weak, stamen filament colour base yellow, near anthers orangy yellow, style colour pale greenish yellow, hairy, stigma below anther, flowering remontant. Seed vessel: size medium, shape pitcher.

Origin Controlled pollination: 'Frisco' x unnamed seedling. Breeder: W Kordes and Son Offenseth-Sparrieshoop, Germany. Selection Criteria: growth habit, attractive orange flower, suitable as a cut flower. Propagation: vegetatively through numerous generations.

Comparative Trial Comparator: 'Korcrisett' ('Calibra'). Location:South, VIC (Latitude 35°50' south, elevation 220m), Autumn 1996. Conditions: trial conducted in an environmentally controlled greenhouse, plants propagated from cuttings, when rooted established in 300mm pots filled with a soilless medium (scoria) and fed hydroponically, trained and pruned by modern techniques used for cut flower production. Trial design: grown in single rows in blocks along with other varieties, minimum of 10 mature plants per variety. Measurements: minimum of 20 taken at random from all plants.

Prior Applications and Sales

Country	Year	Status	Name Applied
Germany	1991	Granted	'Kordaba'
Italy	1991	Pending	'Kordaba'
Belgium	1992	Pending	'Kordaba'
Poland	1992	Pending	'Kordaba'
Holland	1992	Granted	'Kordaba'
Switzerland	1993	Granted	'Kordaba'

First sold Holland, 1991.

Description: **Brian Hanger, Hanger Corporation Pty Ltd**, Monbulk, VIC.

Table 56 *Rosa* varieties

	'Kordaba'	*'Korcrisett'
LEAF SIZE		
	medium/large	small/medium
TERMINAL LEAFLET BASE		
shape	obtuse	round
TERMINAL LEAFLET PETIOLULE LENGTH (mm)		
mean	22.1	14.3
std deviation	2.4	2.4
LSD/sig	2.2	P≤0.01
SEPAL LENGTH (mm)		
mean	37.5	26.2
std deviation	3.0	2.9
LSD/sig	2.7	P≤0.01
PETAL COLOUR (RHS)		
midzone		
outside	30C	48B
inside	33C	40A
margin		
outside	35B	48B
inside	33C	40A
BASAL SPOT COLOUR		
	bright yellow	pale yellow
STAMEN FILAMENT COLOUR		
	yellow/orange	stained red
STIGMA TO ANTHER HEIGHT		
	below	above

'Korlaper' syn La Perla

Application No. 94/091 Accepted: 26 Apr 1994.
Applicant: **W Kordes Sohne Rosenschulen GmbH & Co KG**, Offenseth-Sparrieshoop, Germany.
Agent: **Treloar Roses** Pty Ltd, Heathmere via Portland, VIC.

Description (Table 57, Figure 20) Plant: growth habit upright bushy bed rose. Stem: colour green, thorn size uniform, density very low, shape upper profile predominantly flat, lower profile strongly concave, colour pinkish. Young vegetative shoot: anthocyanin colouration medium, hue reddish brown to purple, young leaves purplish red. Leaf: size medium, colour medium to dark green, glossiness weak to medium. Terminal leaflet: size medium to large, base shape obtuse to round, cross section concave, undulation of margin strong, colour petiolule length medium. Flower pedicel: fine hairs size small, number many. Flower bud: shape ovate. Flower: cluster predominantly as single terminal blooms, type double, size medium, view from above irregularly round, upper profile flattened convex, lower profile flat, fragrance very weak, sepal colour light green, extensions weak, petal number medium to many, size medium, colour inside midzone RHS 51D, outside midzone RHS 54D, inside margin RHS 51D, outside margin RHS 54D, inside basal spot medium size, pale yellow RHS 2D, diffusive border, outside basal spot size large to medium, colour pale yellow RHS 2D, diffusive border, reflexing of margin strong, undulation of margin weak, stamen filament colour pale yellow, style colour whitish yellow, stigma slightly below anther, flowering remontant. Seed vessel: size medium, shape pitcher.

Origin Controlled pollination: 'Lorena' x unnamed seedling. Breeder: W Kordes and Son Offenseth-Sparrieshoop, Germany. Selection Criteria: growth habit, attractive pink flower, suitable as a cut flower. Propagation: vegetatively through numerous generations.

Comparative Trial Comparator: 'Florence'. Location: Silvan South, VIC (Latitude 35°50' south, elevation 220m), Autumn 1996. Conditions: trial conducted in an environmentally controlled greenhouse, plants propagated from cuttings, when rooted established in 300mm pots filled with a soilless medium (scoria) and fed hydroponically, trained and pruned by modern techniques used for cut flower production. Trial design: grown in single rows in blocks along with other varieties, minimum of 10 mature plants per variety. Measurements: minimum of 20 taken at random from all plants.

Prior Applications and Sales

Country	Year	Status	Name Applied
Germany	1992	Granted	'Korlaper'
England	1992	Pending	'Korlaper'
Italy	1992	Pending	'Korlaper'
Great Britain	1992	Pending	'Korlaper'
Poland	1993	Pending	'Korlaper'
Holland	1993	Granted	'Korlaper'

First sold Germany 1992.

Description: **Brian Hanger, Hanger Corporation Pty Ltd**, Monbulk, VIC.

DESCRIPTIONS

Table 57 *Rosa* varieties

	'Korlaper'	*'Florence'
STEM THORNS		
number	very few	medium density
THORN LENGTH (mm)		
mean	6.4	9.2
std deviation	0.7	1.1
LSD/sig	0.7	P≤0.01
TERMINAL LEAFLET BASE		
shape	obtuse/round	round/cordate
FLOWER DIAMETER (mm) fully open		
mean	94.0	83.3
std deviation	7.3	6.0
LSD/sig	4.7	P≤0.01
SEPAL EXTENSIONS		
	weak	nil to weak
PETAL COLOUR (RHS)		
midzone		
outside	54D	36D
inside	51D	36D
margin		
outside	54D	36D
inside	51D	36D
STAMEN FILAMENT COLOUR		
	pale yellow	pale green/yellow
STIGMA TO ANTHER HEIGHT		
	slightly below	well above

'Korpinka' syn Summer Fairytale

Application No. 94/088 Accepted: 26 Apr 1994.
Applicant: **W Kordes Sohne Rosenschulen GmbH & Co KG**, Offenseth-Sparrieshoop, Germany.
Agent: **Treloar Roses** Pty Ltd, Heathmere via Portland, VIC.

Description (Table 58, Figure 17) Plant: growth habit broad bushy rose, trailing stems. Stem: colour green, thorn size large, density low, uniformly spaced, shape upper profile predominantly flat, lower profile strongly concave, colour. Young vegetative shoot: anthocyanin colouration weak, hue reddish brown. Leaf: size small, colour dark green, glossiness semi gloss. Terminal leaflet: size small, base shape obtuse to round, cross section slightly concave, undulation of margin weak, petiolule length short to medium. Flower pedicel: smooth. Flower bud: shape ovate. Flower: cluster predominantly terminal clusters, type single, size medium, view from above irregularly round, upper profile flat, lower profile flat, fragrance very weak, sepal colour light green, extensions weak, petal number very few, size small, shape obcordate, colour inside midzone carmine pink RHS 58B, outside midzone RHS 57B/58B, inside margin RHS 58B, outside margin RHS 57B/58B, inside basal spot very small, colour whitish yellow RHS 4D, outside basal spot small colour RHS 4D, reflexing of margin very little, undulation of margin weak, stamen filament colour greenish yellow, style colour green, stigma slightly above anther, flowering remontant. Seed vessel: size small, shape towards pear.

Origin Controlled pollination: 'Immensee' x unnamed seedling. Breeder: W Kordes and Son Offenseth-Sparrieshoop, Germany. Selection Criteria: growth habit, attractive dark pink flower. Propagation: vegetatively through numerous generations.

Comparative Trial Comparator: 'Mainu Fleur'. Location: Silvan South, VIC (Latitude 35°50' south, elevation 220m), Autumn 1996. Conditions: trial conducted in an environmentally controlled greenhouse, plants propagated from cuttings, when rooted established in 300mm pots filled with a soilless medium (scoria) and fed hydroponically, trained and pruned by modern techniques used for cut flower production. Trial design: grown in single rows in blocks along with other varieties, minimum of 10 mature plants per variety. Measurements: minimum of 20 taken at random from all plants.

Prior Applications and Sales

Country	Year	Status	Name Applied
Great Britain	1991	Pending	'Korpinka'
Germany	1992	Granted	'Korpinka'
Switzerland	1993	Granted	'Korpinka'
Belgium	1993	Pending	'Korpinka'
Denmark	1993	Pending	'Korpinka'
Holland	1993	Granted	'Korpinka'

First sold Germany 1992.

Description: **Brian Hanger, Hanger Corporation Pty Ltd**, Monbulk, VIC.

Table 58 *Rosa* varieties

	'Korpinka'	*'Mainu Fleur'
THORN LENGTH (mm)		
mean	6.0	5.4
std deviation	0.6	0.6
LSD/sig	0.5	P≤0.01
LEAF GLOSSINESS		
	semi gloss	gloss
TERMINAL LEAFLET BASE		
shape	obtuse to round	obtuse
TERMINAL LEAFLET PETIOLULE LENGTH (mm)		
mean	14.6	16.8
std deviation	1.6	2.4
LSD/sig	1.6	P≤0.01
FLOWER DIAMETER (mm) fully open		
mean	76.3	81.5
std deviation	3.8	4.4
LSD/sig	3.3	P≤0.01
SEPAL LENGTH (mm)		
mean	23.5	19.0
std deviation	1.7	1.8
LSD/sig	1.4	P≤0.01
PETAL COLOUR (RHS)		
midzone		
outside	57B/58B	60C
inside	58B	53A
margin		
outside	57B/58B	60C
inside	58B	53A

Table 58 *Rosa* Varieties - continued

TERMINAL END OF PETAL		
	obcordate	mucronate
STIGMA TO ANTHER HEIGHT		
	slightly above	same
SEED VESSEL SHAPE		
	pitcher	pear

'Korschwama' syn **Black Madonna**

Application No. 94/094 Accepted: 26 Apr 1994.
Applicant: **W Kordes Sohne Rosenschulen GmbH & Co KG**, Offenseth-Sparrieshoop, Germany.
Agent: **Treloar Roses Pty Ltd**, Heathmere via Portland, VIC.

Description (Table 59, Figure 22) Plant: growth habit upright bushy bed rose. Stem: colour green, thorn size large, density low to medium, uniformly spaced, shape upper profile concave, lower profile strongly concave. Young vegetative shoot: anthocyanin colouration medium, hue reddish brown. Leaf: size large, colour dark green, glossiness medium. Terminal leaflet: length medium to long, base shape round, cross section slightly concave, undulation of margin weak, petiolule length medium to long. Flower pedicel: thorn number many, length short, colour green, fine hairs absent. Flower bud: shape ovate. Flower: cluster predominantly single terminal blooms, type double, size medium to large, view from above irregularly round, upper profile flattened convex, lower profile flat, fragrance weak, sepal colour light green, extensions weak to medium, some small leafy extremities, petal number many, size large, shape, velvety inside surface, matt outside surface, colour inside midzone near RHS 46A/53A, outside midzone near RHS 53A, inside margin near RHS 46A/53A, outside margin near RHS 53A, inside basal spot size small, colour whitish yellow RHS 155A, outside basal spot size very small, colour RHS 4D, reflexing of margin strong, undulation of margin weak, stamen filament colour red, style colour whitish yellow, stained red near stigma, hairs absent, stigma same or slightly higher than anther, flowering remontant. Seed vessel: medium size, shape pitcher.

Origin Controlled pollination: 'Konrad Henkel' x unnamed seedling. Breeder: W Kordes and Son, Offenseth-Sparrieshoop, Germany. Selection Criteria: growth habit, attractive dark red flower, suitability as a cut flower. Propagation: vegetative through numerous generations.

Comparative Trial Comparator: 'Concerto' (D). Location: Silvan South, VIC (Latitude 35°50' south, elevation 220m), Autumn 1996. Conditions: trial conducted in an environmentally controlled greenhouse, plants propagated from cuttings, when rooted established in 300mm pots filled with a soilless medium (scoria) and fed hydroponically, trained and pruned by modern techniques used for cut flower production. Trial design: grown in single rows in blocks along with other varieties, minimum of 10 plants per variety. Measurements: minimum of 20 samples taken at random and observations were made on mature plants.

Prior Applications and Sales

Country	Year	Status	Name Applied
Germany	1991	Granted	'Korschwama'
Poland	1992	Pending	'Korschwama'
Switzerland	1993	Granted	'Korschwama'
Great Britain	1993	Pending	'Korschwama'
Holland	1993	Granted	'Korschwama'
South Africa	1994	Pending	'Korschwama'

First sold Germany 1992.

Description: **Brian Hanger, Hanger Corporation Pty Ltd**, Monbulk, VIC.

Table 59 *Rosa* varieties

	'Korschwama'	*'Concerto'(D)
THORN LENGTH (mm)		
mean	8.0	6.4
std deviation	0.8	1.1
LSD/sig	0.8	P≤0.01
LEAF GLOSSINESS		
	semi gloss	dull
TERMINAL LEAFLET PETIOLULE LENGTH (mm)		
mean	24.2	20.3
std deviation	2.8	3.3
LSD/sig	2.3	P≤0.01
FLOWER PEDICEL		
fine hairs	nil	many
FLOWER DIAMETER (mm) fully open		
mean	99.0	112.0
std deviation	8.1	9.9
LSD/sig	8.0	P≤0.01
SEPAL EXTENSIONS		
	weak/medium	weak
PETAL COLOUR (RHS)		
midzone		
outside	near 53A	near 53A/60A
inside	near 46A/53A	near 46A
margin		
outside	near 53A	near 53A/60A
inside	near 46A/53A	near 46A
STAMEN FILAMENT COLOUR		
	red	yellow
STYLE COLOUR		
	whitish yellow	red

'Meicarsel' syn **Mascara Minijet**

Application No: 95/211 Accepted: 5 Sept 1995.
Applicant:**SNC Meilland & Cie**, Le Luc en Provence, France.
Agent: **Australian Roses**, Silvan, VIC.

Description (Figure 5) Plant: growth habit bushy, large headed miniature rose, width narrow. Stem: thorn shape lower side concave. Young vegetative shoot: anthocyanin colouration weak to medium, hue bronze to reddish brown. Terminal leaflet: length 22-33mm, width 24-

26mm, size small, number 5-7, base shape obtuse. Flower: type double, view from above star shaped, upper profile flat, lower profile concave, sepal extensions weak, petal number very many 85-135, size very small, colour inside midzone RHS 155C, outside midzone RHS 155C, inside margin close to RHS 57A-66A, outside margin RHS 155C, reflexing of margin weak, undulation of margin absent, stamens filament colour yellow, flowering. Seed vessel: size size very small to small.

Origin Controlled pollination: ('Meikiji' x 'Meibarke'Φ) x 'Magic Carrousel'. Breeder: Alain A Meilland, Le Luc en Provence, France. Selection Criteria: flower colour, bud shape, bush form, vigour. Propagation: cuttings through numerous generations.

Comparative Trial Location: GEVES Sophia Antipolis France 06410 BIOT, 1994-1995. Description based on UPOV data from CPOV, Paris France. The qualified person considers 'Meibarke'Φ and 'Benmagic' to be the closest comparators.

Prior Applications and Sales

Country	Year	Status	Name Applied
France	1993	Pending	'Meicarsel'

First sold France 1993.

Description: **Christopher Prescott, Prescott Roses Pty Ltd** , Berwick, VIC.

'Meigrolet' syn **Fragrant Minijet**

Application No: 95/212 Accepted: 5 Sep 1995.
Applicant: **SNC Meilland & Cie**, Le Luc en Provence, France.
Agent: **Australian Roses**, Silvan, VIC.

Description (Figure 6) Plant: growth habit bushy large headed miniature rose, width narrow. Stem: thorn shape lower side concave. Young vegetative shoot: anthocyanin colouration weak, hue bronze. Terminal leaflet: length 25-36mm, width 16-19mm, size small, number 5-7. Flower bud: shape ovate. Flower: type double, view from above irregularly rounded, upper profile flat, lower profile flattened convex, sepal extensions weak to medium, petal number very many 93-104, size small, colour inside midzone RHS 6C, outside midzone RHS 6C, inside margin RHS 4D-6D, outside margin RHS 4D-6D, reflexing of margin weak, undulation of margin absent, stamens filament colour yellow. Seed vessel: size small.

Origin Controlled Pollination: ('Meigronuri' x 'Meitrisical') x 'Gulletta'. Breeder: Alain A Meilland, Le Luc en Provence, France. Selection Criteria: flower colour, bud shape, bush form, vigour. Propagation: cuttings through numerous generations.

Comparative Trial Location: GEVES Sophia Antipolis France 06410 BIOT, 1994-1995. Description based on UPOV data from CPOV, Paris France. The qualified person considers 'Lavglo'Φ to be the closest comparator.

Prior Applications and Sales

Country	Year	Status	Name Applied
France	1993	Pending	'Meigrolet'

First sold France 1993.

Description: **Christopher Prescott, Prescott Roses Pty Ltd** . Berwick, VIC.

'Meilarac' syn **Bella Minijet**

Application No. 94/189 Accepted: 13th Sept 1994.
Applicant: **SNC Meilland et Cie**, Antibes, France.
Agent: **Yarraee Pty Ltd 'Australian Roses'**, Silvan, VIC.

Description (Table 60, Figure 8) Plant: growth habit bushy very compact miniature pot rose. Stem: thorn size uniform, density light, shape upper profile very slightly concave, lower profile strongly concave. Young vegetative shoot: colour green. Leaf: size medium, colour medium to dark green, glossiness dull upper surface. Terminal leaflet: base shape obtuse to round, cross section slightly concave, undulation of margin nil to weak, petiolule length. Flower pedicel: glandular hairs length short, firm, fine colourless hairs present. Flower bud: shape ovate. Flower: cluster terminal, type double, size medium, view from above irregularly round, upper profile flattened convex, lower profile flat, fragrance, sepal colour green, extensions very weak, petal number very many, size small to medium, colour same both surfaces, midzone and margin RHS 27B, fades to RHS 158B/158C, basal spot colour yellow RHS 16C, large, diffusive boundary, reflexing of margin slight, undulation of margin weak, stamen filament colour pale yellow, style colour whitish green, stigma and anther same height, flowering remontant. Seed vessel: medium size, shape pitcher.

Origin Controlled pollination: ('Meijikarar' x 'Meilarco') x 'Ruivierac'. Breeder: Alain A. Meilland Antibes, France. Selection Criteria: growth and flower characteristics, and suitability as small potted flowering plant. Propagation: vegetatively through numerous generations.

Comparative Trial Comparator: 'Meixerul'Φ syn Peach Meillandina. Location: Silvan South, VIC (Latitude 35°50' south, elevation 220m), Autumn 1996. Conditions: trial conducted in an environmentally controlled greenhouse, plants propagated from cuttings, when rooted established in 210mm pots filled with a soilless medium (scoria) and fed hydroponically, pruned after each flush of flowers. Trial design: grown in single rows in blocks along with other varieties, minimum of 10 mature plants per variety. Measurements: minimum of 20 taken at random from all plants.

Prior Applications and Sales

Country	Year	Status	Name Applied
France	1992	Granted	'Meilarac'

First sold France 1992.

Description: **Brian Hanger, Hanger Corporation Pty Ltd**, Monbulk, VIC.

Table 60 *Rosa* varieties

	'Meilarac'	*'Meixerul'(b)
THORN LENGTH (mm)		
mean	3.5	6.1
std deviation	0.6	0.8
LSD/sig	0.6	P≤0.01
TERMINAL LEAFLET LENGTH (mm) first or second true leaf down from flower cluster		
mean	21.9	29.0
std deviation	3.0	2.7
LSD/sig	1.9	P≤0.01
TERMINAL LEAFLET WIDTH (mm)		
mean	16.2	20.2
std deviation	1.8	1.6
LSD/sig	1.3	P≤0.01
TERMINAL LEAFLET BASE		
shape	obtuse-round	obtuse
TERMINAL LEAFLET PETIOLULE LENGTH (mm)		
mean	8.9	13.7
std deviation	1.6	2.0
LSD/sig	1.6	P≤0.01
FLOWER DIAMETER (mm) fully open		
mean	51.7	59.1
std deviation	4.5	3.8
LSD/sig	3.2	P≤0.01
SEPAL LENGTH (mm)		
mean	18.0	23.3
std deviation	1.3	2.3
LSD/sig	1.1	P≤0.01
SEPAL EXTENSIONS		
	very weak	weak
PETAL COLOUR (RHS)		
midzone		
outside	27B	36B
inside	27B	36A/37D
margin		
outside	27B	36B
inside	27B	36A/37D
STAMEN FILAMENT COLOUR		
	pale yellow	yellow
STIGMA TO ANTHER HEIGHT		
	same	well above

'Meimagul' syn Gypsy Minijet

Application No. 94/188 Accepted: 13 Sep 1994.
Applicant: **SNC Meilland et Cie**, Antibes, France.
Agent: **Yarraee Pty Ltd 'Australian Roses'**, Silvan, VIC.

Description (Table 61, Figure 7) Plant: growth habit bushy compact miniature pot rose. Stem: thorn size uniform, slim, density light, regularly spaced, shape slightly hooked downwards, upper profile catena, lower profile strongly concave, colour. Young vegetative shoot: green. Leaf: size small to medium, colour medium green, glossiness dull upper surface. Terminal leaflet: base shape obtuse, cross section slightly concave, undulation of margin nil to weak, petiolule length medium. Flower pedicel: fine thorns and firm glandular hairs number many. Flower bud: size, shape ovate. Flower: cluster singles occasional cluster, type double, size medium, view from above irregularly round, upper profile flattened convex, lower profile flat, fragrance weak, sepal colour green, extensions weak to medium, petal number very many, size medium, colour inside midzone RHS 45B/46B, outside midzone RHS 46B, inside margin RHS 45B/46B, outside margin RHS 46B, inside basal spot large, triangular shaped, sharp boundary, colour yellow RHS 7A, outside basal spot very extensive to half petal, triangular, colour RHS 8A, reflexing of margin present, undulation of margin weak, stamen filament colour yellow, style colour yellowish green, stigma below height of anthers, flowering remontant. Seed vessel: size large, shape pitcher.

Origin Controlled pollination: ('Bonfire Night' x 'Meialfi') x 'Ruigul'. Breeder: Alain A. Meilland Antibes, France. Selection Criteria: growth and flower characteristics, and suitability as small potted flowering plant. Propagation: vegetatively through numerous generations.

Comparative Trial Comparator: 'Meidrofal'(syn 'Happy Minijet'). Location: Silvan South, VIC (Latitude 35°50' south, elevation 220m), Autumn 1996. Conditions: trial conducted in an environmentally controlled greenhouse, plants propagated from cuttings, when rooted established in 210mm pots filled with a soilless medium (scoria) and fed hydroponically, pruned after each flush of flowers. Trial design: grown in single rows in blocks along with other varieties, minimum of 10 mature plants per variety. Measurements: minimum of 20 taken at random from all plants.

Prior Applications and Sales

Country	Year	Status	Name Applied
France	1992	Granted	'Meimagul'
Denmark	1993	Granted	'Meimagul'
Germany	1993	Pending	'Meimagul'
USA	1993	Pending	'Meimagul'

First sold France 1992.

Description: **Brian Hanger, Hanger Corporation Pty Ltd**, Monbulk, VIC.

Table 61 *Rosa* varieties

	'Meimagul'	*'Meidrofal'
THORN LENGTH (mm)		
mean	4.4	5.5
std deviation	0.6	0.7
LSD/sig	0.5	P≤0.01
TERMINAL LEAFLET LENGTH (mm) first or second true leaf down from flower cluster		
mean	25.7	22.3
std deviation	1.2	3.7
LSD/sig	2.2	P≤0.01
TERMINAL LEAFLET PETIOLULE LENGTH (mm)		
mean	7.4	8.4
std deviation	1.0	0.8
LSD/sig	0.8	P≤0.01

Table 61 *Rosa* Varieties - continued

FLOWER PEDICEL		
	slim thorns	no thorns
FLOWER DIAMETER (mm) fully open		
mean	50.2	46.8
std deviation	2.1	2.8
LSD/sig	2.3	P≤0.01
SEPAL LENGTH (mm)		
mean	19.9	21.9
std deviation	0.1	1.9
LSD/sig	1.0	P≤0.01
SEPAL EXTENSIONS		
	weak/medium	medium
PETAL NUMBER		
	very many	many
PETAL COLOUR (RHS)		
midzone		
outside	46B	53C
inside	45B/46B	43A
margin		
outside	46B	43A
inside	45/46B	43A
STIGMA TO ANTHER HEIGHT		
	below	above
SEED VESSEL SIZE (for miniature roses)		
	large	medium

'Meidrofal' syn **Happy Minijet**

Application No. 94/190 Accepted: 13 Sep 1994.
Applicant: **SNC Meilland et Cie**, Antibes, France.
Agent: **Yarraee Pty Ltd 'Australian Roses'**, Silvan, VIC.

Description (Table 62, Figure 9) Plant: growth habit bushy miniature pot rose. Stem: thorn size uniform, long, density light, regularly spaced, shape upper profile concave, lower profile strongly concave, colour light brown. Young vegetative shoot: colour green. Leaf: size medium, colour medium green, glossiness dull upper surface. Terminal leaflet: base shape obtuse, cross section flat to very slightly convex, undulation of margin nil to weak, petiolule length medium. Flower pedicel: firm glandular hairs density light. Flower bud: shape ovate. Flower: cluster terminal, size medium, view from above irregularly round, upper profile flattened convex, lower profile flat, fragrance weak, sepal colour green, extensions medium to strong, petal number near 50, size medium, colour inside midzone RHS 43A, outside midzone RHS 53C, inside margin RHS 43A, outside margin RHS 43A, little fading with age, basal spot well pronounced both surfaces, slightly larger outside surface, boundaries sharp, colour pale yellow RHS 4C, reflexing of margin present, undulation of margin weak, stamen: filament colour yellow. Style colour very pale green, stigma above anther, flowering remontant. Seed vessel: size medium, shape pitcher.

Origin Controlled pollination: ('Bonfire Night' x 'Meialfi') x 'Ruiredro'. Breeder: Alain A Meilland Antibes, France. Selection Criteria: growth, flower characteristics, suitability as small potted flowering plant. Propagation: vegetative through numerous generations.

Comparative Trial Comparator: 'Lavjack'Φ syn 'Orange Minijet'. Location: Silvan South, VIC (Latitude 35°50' south, elevation 220m), Autumn 1996. Conditions: trial conducted in an environmentally controlled greenhouse, plants propagated from cuttings, when rooted established in 210mm pots filled with a soilless medium (scoria) and fed hydroponically, pruned after each flush of flowers. Trial design: grown in single rows in blocks along with other varieties, minimum of 10 mature plants per variety. Measurements: minimum of 20 taken at random from all plants.

Prior Applications and Sales

Country	Year	Status	Name Applied
France	1992	Granted	'Meidrofal'
Denmark	1993	Granted	'Meidrofal'
Germany	1993	Pending	'Meidrofal'

First sold France 1992.

Description: **Brian Hanger, Hanger Corporation Pty Ltd**, Monbulk, VIC.

Table 62 *Rosa* varieties

	'Meidrofal'	*'Lavjack'Φ
THORN LENGTH (mm)		
mean	5.5	3.8
std deviation	0.7	0.4
LSD/sig	0.5	P≤0.01
TERMINAL LEAFLET LENGTH (mm) first or second true leaf down from flower cluster		
mean	22.3	25.1
std deviation	3.7	2.6
LSD/sig	2.4	P≤0.01
TERMINAL LEAFLET WIDTH (mm)		
mean	13.1	14.3
std deviation	1.4	1.2
LSD/sig	0.9	P≤0.01
FLOWER PEDICEL		
	no thorns	thorns
FLOWER DIAMETER (mm) fully open		
mean	46.8	35.2
std deviation	2.8	2.5
LSD/sig	2.4	P≤0.01
SEPAL LENGTH (mm)		
mean	21.9	14.8
std deviation	1.9	1.2
LSD/sig	1.0	P≤0.01
SEPAL EXTENSIONS		
	medium/strong	weak
PETAL COLOUR (RHS)		
midzone		
outside	53C	50A
inside	43A	40A
margin		
outside	43A	40A
inside	43A	40A

Table 62 *Rosa* Varieties - continued

STIGMA TO ANTHER HEIGHT		
	above	same level
SEED VESSEL SHAPE		
	pitcher	pear
SEED VESSEL THORNS		
	nil	present

'Sunauck' syn Barossa Dream

Application No: 94/203 Accepted: 6 Feb 1995.
Applicant: **Frank Bart Schuurman,** Whenuapai, New Zealand.
Agent: **St Kilda Roses Pty Ltd,** Waterloo Corner, SA.

Description: (Table 63, Figure 1) Plant: growth habit bush rose. Stem: thorns present, shape upperside profile flat, lowerside profile concave. Leaf: size medium, colour medium green, glossiness dull on upper side. Terminal leaflet: length 61.8mm, width 31.8mm, base shape round, cross section concave, undulation of margin present. Flower pedicel: prickles absent. Flower bud: shape round. Flower: cluster single stemmed blooms, terminal, type single, size medium, sepal extensions weak, size medium, colour outer RHS 10-20D, inner 16C-20D, basal spot outside and inside RHS 12A, stamens colour bronze, style colour red. Seed vessel: size medium, shape funnel.

Origin Controlled pollination: 'City of Auckland' x 'New Year'. Breeder: Frank Bart Schuurman, Whenuapai, New Zealand. Selection criteria: flower colour. Propagation: vegetative by grafting.

Comparative Trial Comparator: 'Just Joey'. Location: Waterloo Corner, St Kilda, SA Aug 1995 - Apr 1996. Conditions: virus indexed Dr Huey root stock; plant spacing 1m x 0.9m; pre-ripped, raised open beds, red loam soil; drip irrigated, complete fertiliser as required, chemical and mechanical weed control. Trial design: 10 plants of each variety arranged in two rows in unreplicated blocks. Measurements: 20 random samples from each variety.

Prior Applications and Sales Nil.

Description: **Peter Scholefield, Scholefield Robinson Horticultural Services Pty Ltd,** Adelaide, SA.

'Sunmani' syn Oasis Sunset

Application No: 95/251 Accepted: 7 Nov 1995.
Applicant: **Frank Bart Schuurman,** Whenuapai, New Zealand.
Agent: **St Kilda Roses Pty Ltd,** Waterloo Corner, SA.

Description: (Table 63, Figure 2) Plant: growth habit bush rose. Stem: thorn shape upperside and lowerside profile concave. Leaf: size medium, colour medium green, glossiness dull on upper side. Terminal leaflet: length 62.65mm, width 34.05mm, base shape rounded, cross section convex, petiolule length 14mm. Flower bud: shape ovate. Flower: cluster single stemmed blooms, terminal, type single, fragrance weak, sepal extensions medium, petal number many, size medium, colour outside RHS 36B-37C, inside RHS 36B-37C, basal spot inside and outside RHS 12A, outside reflexing of margin medium, undulation of margin slight, stamens colour yellow, style colour red. Seed vessel: size large, shape pear.

Origin Controlled pollination: unknown x unknown. Breeder: Frank Bart Schuurman, Whenuapai, New Zealand. Selection criteria: flower colour. Propagation: vegetative by grafting.

Comparative Trial Comparators: 'Sunauck' , 'Just Joey'. Location: Waterloo Corner, St Kilda, SA Aug 1995 - Apr 1996. Conditions: virus indexed Dr Huey root stock; plant spacing 1m x 0.9m; pre-ripped, raised open beds, red loam soil; drip irrigated, complete fertiliser as required, chemical and mechanical weed control. Trial design: 10 plants of each variety arranged in two rows in unreplicated blocks. Measurements: 20 random samples from each variety.

Prior Applications and Sales Nil.

Description: **Peter Scholefield, Scholefield Robinson Horticultural Services Pty Ltd,** Adelaide, SA.

Table 63 *Rosa* varieties

	'Sunmani'	'Sunauck'	*'Just Joey'
PLANT			
young shoot anthocyanin			
	red	purple	red
thorn shape -upper side			
	concave	flat	flat
THORN LENGTH (mm) LSD(P≤0.01) = 0.97			
mean	5.65b	8.80a	6.60b
std deviation	1.18	1.44	1.31
TERMINAL LEAFLET			
cross section	convex	concave	concave
TERMINAL LEAFLET			
LENGTH (mm) LSD(P≤0.01) = 6.07			
mean	62.65b	61.80b	74.55a
std deviation	9.84	7.98	12.29
TERMINAL LEAFLET			
WIDTH (mm) LSD(P≤0.01) = 3.67			
mean	34.05b	31.75b	41.30a
std deviation	5.05	5.16	6.99
LENGTH OF PETIOLULE (mm) LSD(P≤0.01) = 1.75			
mean	14.00b	12.50b	16.05a
std deviation	3.32	2.69	3.12
FLOWER			
pedicel thorns/prickles			
	absent/few	absent	absent/few
bud shape	ovate	round	ovate
number of petals			
	many((50)	many((50)	many(26-50)
fragrance	weak	weak	medium
sepal extension			
	weak/medium	weak	weak
SEPAL LENGTH (mm) LSD(P≤0.01) = 3.11			
mean	25.65b	28.25b	35.75a
std deviation	3.84	4.78	3.85

Table 63 *Rosa* Varieties - continued

PETAL			
size	medium	medium	large
reflexing	medium	mild	mild
PETAL COLOUR (RHS)			
midzone outside	36B-36C	10C	16C-18C
midzone inside	37B-37C	16C	16C-18C
margin outside	37B-37C	20D	16C-18C
margin inside	36B-36C	20D	16C-18C
BASAL SPOT COLOUR (RHS)			
outside	12A	12A	14B
inside	12A	12A	14B
STAMEN- colour of filament	yellow	bronze	bronze
STIGMA IN RELATION TO ANTHERS	below	same level	same level
SEED VESSEL			
size	large	medium	large
shape	pear	funnel	pitcher

Values followed by the same letter are not significantly different (at P≤0.01) according to Duncan's Multiple Range Test.

SESAME
Sesamum indicum

'Edith' syn. Y1:44

Application No: 95/152 Accepted: 22 May 1995.
Applicant: **Department of Primary Industry and Fisheries,** Katherine, NT.

Description (Table 64, Figure 76) Plant: erect, annual, non-branching. Stem: square, pubescent. Leaf: broad elliptic to elliptic, pubescent, vary in lobing and dentation according to position, arrangement opposite. Flower: 3 per leaf axil. Capsule: narrow oblong, 2 carpels per capsule. Seed: white; weight exceed 3g/1000 seeds.

Origin Selection and Self pollination: individual plants from 'Yori 77', seed increased, further selection to obtain uniform lines. Breeder: M Bennett, Department of Primary Industry and Fisheries, NT. Selection criteria: phenology; growth habit; seed size, colour, oil content; yield. Propagation: seed.

Comparative Trial Comparators: 'Yori 77', 'Aussie Gold', 'Beech's Choice'. Location: Katherine Research Station, Katherine, NT Jan 1995 - Jun 1995. Conditions: Field trial sown from seed Trial design: randomised complete block design with 4 replicates. Plants spaced 15cm apart within rows. Measurements: 25 plants randomly chosen from the centre two rows. Plant characters recorded around flowering. Capsule characters recorded prior to maturity and seed characters following harvest.

Prior Applications and Sales Nil.

Description: **Malcolm Bennett Department of Primary Industry and Fisheries,** Katherine, NT

Table 64 *Sesamum* varieties

	'Edith'	*'Yori 77'	*'Aussie Gold'	*'Beech's Choice'
PLANT HEIGHT (cm)				
mean	157	156	126	141
std deviation	13.0	9.0	15.0	20.0
LSD/sig	11.6	ns	P≤0.01	P≤0.01
BRANCHING HABIT	none	top	basal	basal
NUMBER OF BRANCHES				
mean	0.6	3.4	2.6	3.5
std deviation	0.9	1.1	1.3	1.1
LSD/sig	0.5	P≤0.01	P≤0.01	P≤0.01
LEAF LENGTH (mm) -node 6				
mean	175	177	146	155
std. deviation	23.0	20.0	15.0	17.0
LSD/sig	14.9	ns	P≤0.01	P≤0.01
LEAF WIDTH (mm) -node 6				
mean	164	190	79	54
std deviation	32.0	32.0	14.0	9.0
LSD/sig	17.8	P≤0.01	P≤0.01	P≤0.01
PETIOLE LENGTH (mm) -node 6				
mean	128	132	64	55
std deviation	21.0	14.0	11.0	13.0
LSD/sig	10.8	ns	P≤0.01	P≤0.01
DAYS TO FLOWER				
mean	38	41	32	33
std deviation	3.0	2.0	2.0	2.0
LSD/sign	1.6	P≤0.01	P≤0.01	P≤0.01
DAYS TO PHYSIOLOGICAL MATURITY				
mean	97	94	83	89
std deviation	4.0	1.0	2.0	3.0
LSD/sig	2.3	P≤0.01	P≤0.01	P≤0.01
CAPSULES PER LEAF AXIL	3	3	1	1
CAPSULE LENGTH (mm)				
mean	28.8	27.1	30.2	37.7
std deviation	1.69	1.71	1.80	2.73
LSD/sig	1.3	P≤0.01	P≤0.01	P≤0.01
CAPSULE WIDTH (mm)				
mean	8.7	8.3	9.3	8.2
std deviation	0.49	0.49	0.65	0.49
LSD/sig	0.3	P≤0.01	P≤0.01	P≤0.01
RATIO OF CAPSULE LENGTH:WIDTH	3.31	3.27	3.25	4.60
SEED LENGTH (mm)				
mean	2.88	2.72	2.83	2.72
std deviation	0.14	0.13	0.14	0.15
LSD/sig	0.04	P≤0.01	P≤0.01	P≤0.01
SEED WIDTH (mm)				
mean	1.82	1.81	1.81	1.71
std deviation	0.10	0.10	0.11	0.13
LSD/sig	0.04	ns	ns	P≤0.01

SCHLUMBERGERA
Schlumbergera hybrid

'Carmen'

Application No: 95/259 Accepted: 7 Nov 1995.
Applicant: **Plants International Pty Ltd,** Silvan, VIC.

Description (Table 65, Figure 65) Plant: early flowering (May-Jun) semi upright. Phylloclade: long (40.0mm), wide (28.08mm), incisions deep (4.30mm). Flower: long (73.80mm), broad (77.50mm) red (RHS 45D), red-purple strip at the corolla tube mouth (red purple, RHS 74A).

Origin Controlled pollination: *Schlumbergera orssichiana* x various mixed hybrids 1982. Breeder: Andrew Dominic Savio, Croydon, VIC. Selection criteria: flower size and colour, early flowering. Propagation: cutting through more than 10 generations.

Comparative Trial Comparators: 'Swan Lake', 'Madame Butterfly'Φ. Location: Silvan, VIC Jan 1996 - May 1996. Conditions: plants raised in a mixture of pinebark and sand media in 125mm pots under a polyhouse. Trial design: randomised block design with 4 replicates. Measurements: from 10 random specimens from 28 plants arranged in randomised blocks.

Prior Applications and Sales Nil.

Description: **Mark Lunghusen,** Croydon, VIC.

Table 65 *Schlumbergera* varieties

	'Mikado'	'Carmen'	'Swan Lake'	*'Madame Butterfly'Φ
PHYLLOCLADE				
predominance	3		3	2-3 3
basal outline	rounded	rounded	rounded	rounded
PHYLLOCLADE LENGTH (mm) LSD (P≤0.01) = 4.50				
mean	47.10a	40.08b	55.12c	56.11d
std deviation	5.66	3.94	7.16	6.21
PHYLLOCLADE WIDTH (mm) LSD (P≤0.01) = 2.30				
mean	21.86a	28.08b	23.63b	24.43c
std deviation	3.09	2.23	3.62	2.90
DEPTH OF INCISION (mm) LSD (P≤0.01) = 1.69				
mean	4.75a	4.30a	5.12a	8.74b
std deviation	0.63	0.63	1.01	1.26
FLOWERING DATES				
	May 1 -Jun 14	May 1 - Jun 14	Apr 1 -May 7	Apr 20 - May 30
BUD				
shape at tip	acute	acute	acute	acute
colour at 1cm tip	red purple	grey red	yellow green	yellow green
RHS	62A	182D	154D	145D
FLOWER COROLLA				
lobe colour (RHS)	red (39B)	red (45D)	white (155C)	white (155D)
margin	absent	absent	absent	present
tube width of ring (mm)	1mm	1mm	1mm	absent
ring colour (RHS)	red purple (74B)	red purple (74A)	red purple (74A)	absent
FLOWER LENGTH (mm) LSD(P≤0.01) = 3.34				
mean	80.32b	73.80c	93.05a	74.60c
std deviation	4.39	2.20	4.44	1.35
FLOWER WIDTH (mm) LSD (P≤0.01) = 9.37				
mean	79.62a	77.50a	92.64b	87.00b
std deviation	11.74	5.44	6.16	7.02
COROLLA LOBE WIDTH (mm) LSD (P≤0.01) = 1.96				
mean	13.10a	10.60b	11.00c	11.80a
std deviation	1.37	0.84	1.94	2.35
STAMEN LENGTH BEYOND MOUTH (mm) LSD(P≤0.01) = 2.23				
mean	48.6a	44.0b	37.4c	34.9d
std deviation	2.22	2.16	2.07	1.20

Means followed by the same letter are not significantly different at P≤0.01

'Mikado' syn Mozart

Application No: 95/260 Accepted: 7 Nov 1995.
Applicant: **Plants International Pty Ltd,** Silvan, VIC.

Description (Table 65, Figure 65) Plant: very early flowering (May-Jun) semi upright to pendulous from third phylloclade. Phylloclade: long (47.10mm), wide (21.86mm), incisions deep (4.75mm). Flower: long (80.32mm), broad (79.62mm) red (RHS 39B), red-purple strip at the corolla tube mouth (red purple, RHS 74B).

Origin Controlled pollination: *Schlumbergera orssichiana* x various mixed hybrids 1982. Breeder: Andrew Dominic Savio, Croydon, VIC. Selection criteria: flower size and colour, early flowering. Propagation: cutting through more than 10 generations.

Comparative Trial Comparator: 'Carmen', 'Swan Lake' 'Madame Butterfly'Φ. Location: Silvan, VIC Jan 1996 - May 1996. Conditions: plants raised in a mixture of pinebark and sand media in 125mm pots under a polyhouse. Trial design: randomised block design with 4 replicates. Measurements: from 10 random specimens from 28 plants arranged in randomised blocks.

Prior Applications and Sales Nil.

Description: **Mark Lunghusen,** Croydon, VIC.

'Swan Lake' syn St Andrew

Application No: 95/131 Accepted: 1 May 1995.
Applicant: **Plants International Pty Ltd,** Silvan, VIC.

Description (Table 65, Figure 65) Plant: early flowering (Apr-May) semi upright to pendulous from the third phylloclade. Phylloclade: long (55.12mm), wide (23.63mm), incisions deep (5.12mm). Flower: long (93.05mm), broad(92.64mm), white (RHS 155C), red-purple strip at the corolla tube mouth (red purple, RHS 74A).

Origin Controlled pollination: *Schlumbergera orssichiana* x various mixed hybrids 1982. Breeder: Andrew Dominic Savio, Croydon, VIC. Selection criteria: flower size and colour, early flowering. Propagation: cutting through more than 10 generations.

Comparative Trial Comparator: 'Madame Butterfly'Φ. Location: Silvan, VIC Jan 1996 - May 1996. Conditions: plants raised in a mixture of pinebark and sand media in 125mm pots under a polyhouse. Trial design: randomised block design with 4 replicates. Measurements: from 10 random specimens from 28 plants arranged in randomised blocks.

Prior Applications and Sales Nil.

Description: **Mark Lunghusen,** Croydon, VIC.

SNOWY RIVER WATTLE
Acacia boormanii

'Olympic Gold'

Application No: 93 /222 Accepted: 18 Oct 1993.
Applicant: **Ian and Merilyn Moad**,Yarrambat, VIC.
Agent: **Plants Management Australia,** Warragul ,VIC.

Description (Table 66, Figure 74). Plant: dense spreading perennial shrub branching from ground level, root suckering, eventually much wider than high. Leaf: simple, flexible, dense. Flower: dense heads in racemes, colour yellow RHS 12A, perfumed.

Origin Seedling selection: *Acacia boormanii.* Breeders: Ian and Merilyn Moad, Yarrambat, VIC. Selection criteria: compact plant habit, dense flowers. Propagation: through three generations by vegetative means.

Comparative Trial Comparator: *Acacia boormanii.* Location: Montrose, VIC, Jul 1995 - Aug 1996. Conditions: plants grown in 15cm pots in standard soilless potting medium in the open. Trial design: random 10 plants. Measurements: 10 random samples from each of 10 plants.

Prior Applications and Sales Nil.

Description: **Bill Molyneux,** Montrose, VIC.

Table 66 *Acacia* varieties

	'Olympic Gold'	* *Acacia boormanii*
PLANT HABIT		
	low dense spreading, wider than high	upright open, higher than wide
PLANT HEIGHT (cm at 395 days)		
mean	49.8	87.1
std deviation	6.20	23.0
LSD/sig	19.0	P≤0.01
PLANT WIDTH(cm)		
mean	39.1	31.9
std deviation	6.66	10.36
LSD/sig	11.0	ns
LEAF LENGTH (mm)		
mean	44.0	40.8
std deviation	7.78	7.86
LSD/sig	5.6	ns
NUMBER OF FLOWER HEADS IN RACEMES		
mean	15.0	6.9
std deviation	2.65	1.37
LSD/sig	1.5	P≤0.01

THUJA (WHITE CEDAR)
Thuja occidentalis

'Star - Struck'

Application No.: 96/132 Accepted: 19 Jul 1996.
Applicant: **Ronald A Andrew,** Oyster Bay, NSW.

Description (Table 67, Figure 72) Plant: conical shape, medium height. Branch: medium dense, non monstrous, erect attitude. Branchlets: oblique, long, main colour green, variegated. Variegation: yellow (RHS 8A-8B). No seasonal differences in shape or colour.

Origin Spontaneous mutation: 'Smaragd'. Breeder: Ronald A Andrew, Oyster Bay, NSW. Selection Criteria: lemon yellow variegated branchlets. Propagation: cuttings through 15 generations..

Comparative Trial Comparator: 'Smaragd'. Location: Natures Workshop (Nursery), Glenhaven, NSW. Conditions: propagated by cuttings, grown in 135 mm pots in standard shrub medium in the open. Trial design: unreplicated. Measurements: on 25 random two years old plants out of a population of two thousand.

Prior Applications and Sales Nil.

Description: **N F Derera, ASAS Pty Limited**, Winston Hills, NSW.

Table 67 *Thuja* varieties

	'Star - Struck'	* 'Smaragd'
PLANT WIDTH (mm)		
mean	14.64	17.28
std deviation	1.25	1.65
LSD/sig	1.11	P≤0.01
BUTT DIAMETER (mm)- 15 mm from base		
mean	6.84	8.46
std deviation	1.14	1.22
LSD/sig	0.90	P≤0.01
FIRST BRANCH LENGTH (mm)		
mean	7.88	13.92
std deviation	2.59	8.24
LSD/sig	4.63	P≤0.01
SECOND BRANCH INTERNODE LENGTH (mm)		
mean	15.76	11.08
std deviation	5.43	3.67
LSD/sig	3.52	P≤0.01
THIRD BRANCH INTERNODE LENGTH (mm)		
mean	15.68	11.00
std deviation	3.81	3.65
LSD/sig	2.83	P≤0.01
PLANT: BRANCH DENSITY		
	medium	dense
BRANCHLETS of penultimate and the last order		
main colour of upper side	RHS 143A	RHS 143A-B
main colour of lower side	RHS 143B	RHS 138A
presence of variegation	present	absent
type of variegation	scattered	absent
colour of variegation	RHS 8A-8B	absent

WAXFLOWER
Chamelaucium uncinatum

'Jenny Jane'
Application No: 92/014 Accepted: 25 May 1992.
Applicant: **Australian Wax Farms**, Mosman Park, WA.

Description (Table 68 Fig. 56) Plant: growth vigour medium. Stem: mean thickness 5.22 mm, branch angle 39.4°. Internode: mean length 12.88mm. Flower: mean density 34.34 per first 5 nodes, fragrance present. Petal: colour development medium. Flower nectary: crimson red RHS 59A at maturity. Staminodia: outline narrow triangular. Calyx tube: outline conical; end colour green RHS 144A.

Origin Open pollination: clones selected from seedlings of unknown origin. Breeder: Jennifer Abbott, Muchea, WA. Selection criteria: vigour, floriferousness, stem length, flower colour and date of flowering. Propagation: vegetative.

Comparative Trial Comparator: *Chamelaucium uncinatum* 'Mullering Brook'. Location: latitude 31°31' S, 130m above sea level, Australian Wax Farms, Muchea, WA, Oct 1991. Conditions: grown under mediterranean climatic conditions, in sand, pruned yearly after flowering, fertilised with liquid feed through trickle irrigation. Systemic and contact insecticides, and herbicides applied as required. Trial design: ten two year plants sampled from unreplicated adjacent blocks. Measurements: made on 5 to 10 random samples.

Prior Applications and Sales
First sold Australia 1992.

Description: **John Considine,** Mosman Park, WA

'Jubilee'
Application No: 92/015 Accepted: 25 May 1992.
Applicant: **Australian Wax Farms**, Mosman Park, WA.

Description (Table 68 Fig. 57) Plant: growth vigour medium. Stem: mean thickness 4.42 mm, branch angle 32.5°. Internode: mean length 15.7 mm. Flower: mean density 39.4 per first 5 nodes, fragrance present. Petal: pale purple RHS 75A at maturity, colour development medium. Flower nectary: crimson red RHS 59A at maturity. Staminodia: outline narrow triangular. Calyx tube: end colour green RHS 144B.

Origin Open pollination: clones selected from seedlings of unknown origin. Breeder: Jennifer Abbott, Muchea, WA. Selection criteria: vigour, floriferousness, stem length, flower colour and date of flowering. Propagation: vegetative

Comparative Trial Comparator: *Chamelaucium uncinatum* 'Mullering Brook'. Location: latitude 31°31' S, 130m above sea level, Australian Wax Farms, Muchea, WA, Oct 1991. Conditions: grown under mediterranean climatic conditions, in sand, pruned yearly after flowering, fertilised with liquid feed through trickle irrigation. Systemic and contact insecticides, and herbicides applied as required. Trial design: ten two year plants sampled from unreplicated adjacent blocks. Measurements: made on 5 to 10 random samples.

Prior Applications and Sales
First sold Australia 1992.

Description: **John Considine,** Mosman Park, WA

'Kismet'

Application No: 92/016 Accepted: 25 May 1992.
Applicant: **Australian Wax Farms,** Mosman Park, WA.

Description (Table 68 Fig. 58) Plant: growth vigour medium. Stem: mean thickness 5.40 mm, branch angle 32.6°. Internode: mean length 39.7 mm. Flower: mean density 34.1 per first 5 nodes, fragrance present. Petal: pale purple RHS 75B at maturity, colour development medium. Flower nectary: crimson red RHS 59A at maturity. Staminodia: outline narrow triangular. Calyx tube: outline conical, end colour green RHS 143B.

Origin Open pollination: clones selected from seedlings of unknown origin. Breeder: Jennifer Abbott, Muchea, WA. Selection criteria: vigour, floriferousness, stem length, flower colour and date of flowering. Propagation: vegetative.

Table 68 *Chamelaucium* varieties

	'Muchea Mauve'	'Jenny Jane'	'Jubilee'	'Kismet'	*'Mullering Brook'
LEAF: LENGTH mm LSD(P≤0.01)= 3.264					
mean	13.34a	15.11a	22.07b	19.8b	16.41a
std deviation	1.61	1.26	1.77	2.44	1.21
FLOWERING TIME					
	late Oct/Nov	late Oct/Nov	late Nov	late Oct/Nov	medium Sep/Oct
FLOWER: DIAMETER mm LSD(P≤0.01)= 1.709					
mean	13.89b	16.07c	13.86b	14.25b	11.58a
std deviation	0.80	0.50	0.54	0.33	0.37
PETAL: COLOUR RHS (when first opened)					
	purple 75A	pale purple 77C, 76D at edge	pale purple 75B	pale pink 62D-paler	pale pink 69A
PETAL: MAIN COLOUR RHS (mature)					
	purple 78B	purple 75A	pale purple 75B	pale purple 75B	pale purple 75C
FLOWER NECTARY: COLOUR RHS					
new	green 145B	yellow/green 144B outer 22B inner	red 50B	pink/red 38A	orange 24B
CALYX LOBE: COLOUR RHS (mature)					
	pale pink/purple 75C	pale pink to purple variegated 58A-62D	pale pink to purple 73D outer 61A inner	pale pink to purple 75B, edges paler	white 155D
STYLE: COLOUR (mature) RHS					
	pale pink	purple 64B	pale pink 56C	pale pink 36C	pale pink 62D
CALYX TUBE: OUTLINE					
	broad conical	conical	flared	conical	broad conical
CALYX TUBE: DIAMETER (mm) at widest point LSD(P≤0.01)= 0.598					
mean	6.74ab	7.16b	7.02b	7.28b	6.26a
std deviation	0.25	0.22	0.27	0.18	0.20
CALYX TUBE: MIDPOINT COLOUR RHS					
	red/brown 180C	green 151B	red/brown 179B	green 151A	red/brown 181A
CALYX TUBE: END COLOUR RHS					
		green 144A	green 144B	green 143B	green 145A

Means followed by the same letter are not significantly different at P≤0.01

Table 69 *Ficus* varieties

	'Francis Goldstar'	*'Exotica' Princess'	*'Golden	*'Hawaii'	*'Starlight'	*'Reginald'
PLANT						
habit	weeping	weeping	weeping	upright	weeping	weeping
branching (in comparison to 'Francis Goldstar')						
	less	less	more	more	less	
PLANT HEIGHT (mm)						
mean	550	670	489	338	919	623
std deviation.	59.0	95.0	61.0	83.0	86.0	83.0
LSD/sig.	70.0	P≤0.01	ns	P≤0.01	P≤0.01	P≤0.01
THIRD INTERNODE LENGTH (mm)						
mean	27.9	39.2	31.4	6.0	15.4	30.8
std deviation	7.4	11.3	9.6	10.8	5.5	6.1
LSD/sig.	6.6	P≤0.01	ns	P≤0.01	P≤0.01	P≤0.01
LEAF MARGIN	slightly undu-lating	undu-lating	slightly undu-ating	flat	slightly undu-lating	undu-lating
PETIOLE LENGTH (mm)						
mean	11.9	13.2	13.0	11.0	12.1	12.7
std deviation	1.6	3.0	1.6	2.4	2.4	2.2
LSD/sig.	1.3	P≤0.01	ns	ns	ns	ns
LEAF LENGTH (mm) - including petiole						
mean	75.9	92.7	80.1	57.6	72.5	95.0
std deviation	4.8	7.5	7.7	5.8	6.0	6.5
LSD/sig.	2.8	P≤0.01	P≤0.01	P≤0.01	P≤0.01	P≤0.01
LEAF WIDTH (mm)						
mean	35.3	40.5	40.5	27.2	31.9	40.1
std deviation	2.2	3.9	5.2	3.5	3.4	3.2
LSD/sig.	1.9	P≤0.01	P≤0.01	P≤0.01	P≤0.01	P≤0.01
LEAF TIP LENGTH (mm)						
mean	11.3	16.1	11.4	2.9	12.8	16.0
std deviation	1.1	2.6	2.2	1.6	1.9	2.2
LSD/sig.	1.1	P≤0.01	ns	P≤0.01	P≤0.01	P≤0.01
LEAF TIP WIDTH (mm)						
mean	2.36	2.83	2.72	2.80	2.76	2.67
std deviation	0.25	0.36	0.44	0.68	0.34	0.36
LSD/sig.	0.21	P≤0.01	P≤0.01	P≤0.01	P≤0.01	P≤0.01
LEAF COLOUR OF MARGIN (RHS) (third fully mature leaf)						
	144B	147A	144A-B	2D	2D	144A
PERCENT AREA						
mean	21.2	100.0*	6.9	34.3	58.5	80.5
std deviation	12.3	-	5.0	18.6	12.1	7.1
LSD/sig.	9.6	P≤0.01	P≤0.01	P≤0.01	P≤0.01	P≤0.01
*=not variegated						
LEAF COLOUR AT CENTRE -1 (RHS) (lighter colour)						
	147B	na	191A	191A	191C-D	147B
PERCENT AREA						
mean	7.1	-	3.5	15.2	11.0	5.4
std deviation	4.6	-	3.7	10.0	6.1	4.5
LSD/sig.	4.24	P≤0.01	ns*	P≤0.01	ns	ns
*= (P≤0.01) with transformation of data due to non-homogeneity of variance.						
LEAF COLOUR AT CENTRE -2 (Dark) (RHS)						
	137A	-	137A	139A	137A	139A
PERCENT AREA						
mean	71.8	-	90.0	50.0	30.4	14.5
std deviation	13.2	-	6.6	18.2	14.9	6.4
LSD/sig.	10.13	P≤0.01	P≤0.01	P≤0.01	P≤0.01	P≤0.01

Comparative Trial Comparator: *Chamelaucium uncinatum* 'Mullering Brook'. Location: latitude 31°31' S, 130m above sea level, Australian Wax Farms, Muchea, WA, Oct 1991. Conditions: grown under mediterranean climatic conditions, in sand, pruned yearly after flowering, fertilised with liquid feed through trickle irrigation. Systemic and contact insecticides, and herbicides applied as required. Trial design: ten two year plants sampled from unreplicated adjacent blocks. Measurements: made on 5 to 10 random samples.

Prior Applications and Sales
First sold Australia 1992.

Description: **John Considine,** Mosman Park, WA

'Muchea Mauve'

Application No: 92/013 Accepted: 25 May 1992.
Applicant: **Australian Wax Farms**, Mosman Park, WA.

Description (Table 68 Fig. 55) Plant: growth vigour medium. Stem: mean thickness 4.40 mm, mean branch angle 34.4°, mean internode length 10.98 mm. Flower: mean density 55.48 per first five nodes fragrance present. Petal: colour development medium. Flower Nectary: crimson red RHS 59A. Staminodia: shape narrow triangular. Style: pale pink. Calyx tube: outline broad conical, midpoint colour red/brown RHS 180C.

Origin Open pollination: clones selected from seedlings of unknown origin. Breeder: Jennifer Abbott, Muchea, WA. Selection criteria: vigour, floriferousness, stem length, flower colour and date of flowering. Propagation: vegetative.

Comparative Trial Comparator: *Chamelaucium uncinatum* 'Mullering Brook'. Location: latitude 31°31' S, 130m above sea level, Australian Wax Farms, Muchea, WA, Oct 1991. Conditions: grown under mediterranean climatic conditions, in sand, pruned yearly after flowering, fertilised with liquid feed through trickle irrigation. Systemic and contact insecticides, and herbicides applied as required. Trial design: ten two year plants sampled from unreplicated adjacent blocks. Measurements: made on 5 to 10 random samples.

Prior Applications and Sales
First sold Australia 1992.

Description: **John Considine,** Mosman Park, WA.

WEEPING FIG
Ficus benjamina

'Francis Goldstar' syn Francis

Application No: 95/062 Accepted: 22 Feb 1995.
Applicant: **Denis-Plants b.v.b.a.**, Destelbergen, Belgium.
Agent: **Burbank Biotechnology Pty Ltd**, Tuggerah, NSW.

Description (Table 69, Figure 66) Plant: compact woody evergreen plant with weeping twigs and branches. Leaf: shape elliptic-oval, apex pronounced acuminate, base cuneate, margin slightly undulating, colour variegated and glossy, margin RHS 144B (becomes lighter with age) mean 21.2% leaf area, irregularly shaped bi-colour variegation originating from the mid-rib (colour 1- RHS 147B mean 7.0% area ; colour 2 - RHS 137A mean 71.8% area).

Origin Spontaneous mutation: *Ficus benjamina* 'Golden King'. Breeder: Rene GMA Denis, Destelbergen, Belgium. Selection criteria: leaf colour. Propagation: tissue culture and cutting through at least 10 generations.

Comparative Trial Comparators: 'Exotica', 'Golden Princess' (syn 'Golden King'), 'Hawaii', 'Reginald', 'Starlight'. Location: Burbank Biotechnology Pty Ltd, Tuggerah NSW Dec 1994 - Feb 1995. Conditions: plants propagated by cutting using air layering technique, raised in a potting mix in 175mm pots in a green house. Trial design: 14 'Francis Goldstar', 14 'Reginald', 15 'Exotica', 13 'Golden Princess', 12 'Starlight' and 8 'Hawaii' plants arranged in completely random manner. Measurements: internode minimum 20, leaf minimum 40, leaf variegation areas of leaf measured with polar planimeter minimum 20 per variety.

Prior Applications and Sales

Country	Year	Status	Name Applied
Netherlands	1992	Granted	'Francis'
Belgium	1993	Granted	'Francis'
Germany	1993	Granted	'Francis'
USA	1993	Patent	'Francis'

First sold Netherlands 1993.

Description: **Ross Worrall**, Gosford, NSW.

GRANTS

ALSTROEMERIA
Alstroemeria hybrid

'Cavalier'Φ

Application No: 91/061 Grantee: **Parigo Horticultural Co Ltd**
Certificate No: 611 Expiry Date: 2 Jul 2011

'Golden Delight'Φ

Application No: 91/059 Grantee: **Parigo Horticultural Co Ltd**
Certificate No: 612 Expiry Date: 2 Jul 2011

'Orange Delight'Φ

Application No: 91/060 Grantee: **Parigo Horticultural Co Ltd**
Certificate No: 610 Expiry Date: 2 Jul 2011

AZALEA
Rhododendron simsii

'Heide Hanisch'Φ

Application No: 95/156 Grantee: **Karl Glaser Gartenbaubetrieb**
Certificate No: 670 Expiry Date: 23 Aug 2016

'Melodie'Φ
Application No: 95/154 Grantee: **Karl Glaser Gartenbaubetrieb**
Certificate No: 668 Expiry Date: 23 Aug 2016

'Paradiso'Φ
Application No: 95/155 Grantee: **Karl Glaser Gartenbaubetrieb**
Certificate No: 669 Expiry Date: 23 Aug 2016

'Venus'Φ
Application No: 95/153 Grantee: **Karl Glaser Gartenbaubetrieb**
Certificate No: 667 Expiry Date: 23 Aug 2016

BRACHYSCOME
Brachyscome angustifolia x multifida

'Just Jayne'Φ
Application No: 93/232 Grantee: **Bryson Graeme Easton**
Certificate No: 677 Expiry Date: 21 Oct 2013

BRACHYSCOME
Brachyscome formosa

'Strawberry Mousse'Φ
Application No: 93/103 Grantee: **Merricks Nursery**
Certificate No: 676 Expiry Date: 15 Apr 2013

BUDDLEIA
Buddleia hybrid

'Sweet Promise'Φ
Application No: 93/129 Grantee: **RJ and BA Cherry**
Certificate No: 614 Expiry Date: 24 May 2013

'Wattle Bird'Φ
Application No: 95/227 Grantee: **RJ Cherry**
Certificate No: 608 Expiry Date: 1 Aug 2016

CANOLA
Brassica napus

'Dunkeld'Φ
Application No: 94/050 Grantee: **Daratech Pty Ltd**
Certificate No: 672 Expiry Date: 16 Feb 2014

'Rainbow'Φ
Application No: 94/051 Grantee: **Daratech Pty Ltd**
Certificate No: 673 Expiry Date: 16 Feb 2014

'Siren'Φ
Application No: 94/103 Grantee: **Ag-Seed Research Pty Ltd**
Certificate No: 674 Expiry Date: 9 May 2014

CITRUS
Citrus sinensis

'Weller Red'Φ
Application No: 92/161 Grantee: **Rolf Hugo Weller**
Certificate No: 609 Expiry Date: 27 Oct 2012

KANGAROO PAW
Anigozanthos Hybrid

'Joey Confetti'Φ
Application No: 94/149 Grantee: **Burbank Biotechnology Pty Ltd**
Certificate No: 679 Expiry Date: 04 July 2014

LAVENDER
Lavandula hybrid

'Sidonie'Φ
Application No: 93/199 Grantee: **Sidonie Barton and Ian Cunliffe**
Certificate No: 678 Expiry Date: 20 Sep 2013

LUCERNE
Medicago sativa

'5454'Φ
Application No: 93/128 Grantee: **Pioneer Hi-Bred International Inc**
Certificate No: 671 Expiry Date: 11 May 2013

PETUNIA
Petunia axillaris

'Batavian Night'Φ
Application No: 93/060 Grantee: **RW Rother**
Certificate No: 633 Expiry Date: 4 Feb 2013

'Blue Opal'Φ
Application No: 93/038 Grantee: **RW Rother**
Certificate No: 623 Expiry Date: 4 Feb 2013

'Blue Wren'Φ
Application No: 93/009 Grantee: **RW Rother**
Certificate No: 619 Expiry Date: 28 Jan 2013

'Colour Flip'Φ
Application No: 93/020 Grantee: **RW Rother**
Certificate No: 622 Expiry Date: 28 Jan 2013

'Kilkenny Bells'Φ syn **Clone 151053**
Application No: 93/087 Grantee: **RW Rother**
Certificate No: 636 Expiry Date: 22 Mar 2013

'Mariposa Red'Φ
Application No: 93/045 Grantee: **RW Rother**
Certificate No: 626 Expiry Date: 4 Feb 2013

'Palomar Rose'Φ
Application No: 95/087 Grantee: **RW Rother**
Certificate No: 657 Expiry Date: 22 Aug 2016

'Pink Mischief'Φ
Application No: 93/011 Grantee: **RW Rother**
Certificate No: 620 Expiry Date: 28 Jan 2013

'Pink Organdy'Φ
Application No: 93/042 Grantee: **RW Rother**
Certificate No: 625 Expiry Date: 4 Feb 2013

'Purple Sunspot'Φ
Application No: 93/049 Grantee: **RW Rother**
Certificate No: 629 Expiry Date: 4 Feb 2013

'Pygmy Rose'Φ
Application No: 93/051 Grantee: **RW Rother**
Certificate No: 630 Expiry Date: 4 Feb 2013

'Rainbow Warrior'Φ
Application No: 93/057 Grantee: **RW Rother**
Certificate No: 631 Expiry Date: 4 Feb 2013

'Ravenna Purple'Φ
Application No: 93/048 Grantee: **RW Rother**
Certificate No: 628 Expiry Date: 4 Feb 2013

'St. Elmo's Fire'Φ
Application No: 93/016 Grantee: **RW Rother**
Certificate No: 621 Expiry Date: 28 Jan 2013

'Sun Angelface'Φ
Application No: 94/012 Grantee: **RW Rother**
Certificate No: 641 Expiry Date: 31 Jan 2014

'Sun Charmer'Φ
Application No: 94/018 Grantee: **RW Rother**
Certificate No: 646 Expiry Date: 31 Jan 2014

'Sun Eclipse'Φ
Application No: 94/019 Grantee: **RW Rother**
Certificate No: 647 Expiry Date: 31 Jan 2014

'Sun Frost'Φ
Application No: 93/039 Grantee: **RW Rother**
Certificate No: 624 Expiry Date: 4 Feb 2013

'Sun Mogul'Φ
Application No: 95/092 Grantee: **RW Rother**
Certificate No: 661 Expiry Date: 22 Aug 2016

'Sun Snow'Φ
Application No: 93/058 Grantee: **RW Rother**
Certificate No: 632 Expiry Date: 4 Feb 2013

'Sunbride'Φ
Application No: 94/010 Grantee: **RW Rother**
Certificate No: 640 Expiry Date: 31 Jan 2014

'Suncocktail'Φ
Application No: 94/020 Grantee: **RW Rother**
Certificate No: 648 Expiry Date: 31 Jan 2014

'Suncool'Φ
Application No: 94/017 Grantee: **RW Rother**
Certificate No: 645 Expiry Date: 31 Jan 2014

'Sungazer'Φ
Application No: 94/016 Grantee: **RW Rother**
Certificate No: 644 Expiry Date: 1 Feb 2014

'Sunlace'Φ
Application No: 94/023 Grantee: **RW Rother**
Certificate No: 650 Expiry Date: 31 Jan 2014

'Sunprom'Φ
Application No: 94/021 Grantee: **RW Rother**
Certificate No: 649 Expiry Date: 31 Jan 2014

'Sunstormer'Φ
Application No: 94/014 Grantee: **RW Rother**
Certificate No: 642 Expiry Date: 31 Jan 2014

'Sunwave'Φ
Application No: 95/080 Grantee: **RW Rother**
Certificate No: 651 Expiry Date: 22 Aug 2016

'Thai Silk'Φ
Application No: 93/047 Grantee: **RW Rother**
Certificate No: 627 Expiry Date: 4 Feb 2013

'Velvet Columbine'Φ syn **Clone 121010**
Application No: 93/099 Grantee: **RW Rother**
Certificate No: 639 Expiry Date: 22 Mar 2013

PETUNIA
Petunia hybrid

'Abundance'Φ
Application No: 93/062 Grantee: **RW Rother**
Certificate No: 634 Expiry Date: 4 Feb 2013

'Frilled Dragon'Φ
Application No: 95/091 Grantee: **RW Rother**
Certificate No: 660 Expiry Date: 22 Aug 2016

'Hotlips'Φ
Application No: 93/064 Grantee: **RW Rother**
Certificate No: 635 Expiry Date: 4 Feb 2013

'Kristy Rader'Φ
Application No: 95/093 Grantee: **RW Rother**
Certificate No: 662 Expiry Date: 22 Aug 2016

'Orion'Φ syn **Clone 131062**
Application No: 93/098 Grantee: **RW Rother**
Certificate No: 638 Expiry Date: 22 Mar 2013

'Pink Confusion'Φ syn **Clone 121076**
Application No: 93/091 Grantee: **RW Rother**
Certificate No: 637 Expiry Date: 22 Mar 2013

'Purple Victory'Φ
Application No: 95/082 Grantee: **RW Rother**
Certificate No: 653 Expiry Date: 22 Aug 2016

'Revolution BrilliantPink'Φ
Application No: 93/123 Grantee: **Suntory Limited and Keisei Rose Nurseries Inc**
Certificate No: 616 Expiry Date: 10 May 2013

'Revolution BrilliantPink Mini'Φ
Application No: 93/124 Grantee: **Suntory Limited and Keisei Rose Nurseries Inc**
Certificate No: 617 Expiry Date: 10 May 2013

'Revolution PurplePink'Φ
Application No: 93/122 Grantee: **Suntory Limited and Keisei Rose Nurseries Inc**
Certificate No: 615 Expiry Date: 10 May 2013

'Revolution White'Φ
Application No: 93/125 Grantee: **Suntory Limited and Keisei Rose Nurseries Inc**
Certificate No: 618 Expiry Date: 10 May 2013

'Sun Avalanche'Φ
Application No: 95/083 Grantee: **RW Rother**
Certificate No: 654 Expiry Date: 22 Aug 2016

'Sun Gleam'Φ
Application No: 95/084 Grantee: **RW Rother**
Certificate No: 655 Expiry Date: 22 Aug 2016

'Sun Inferno'Φ
Application No: 95/094 Grantee: **RW Rother**
Certificate No: 663 Expiry Date: 22 Aug 2016

'Sunkiss'Φ
Application No: 94/015 Grantee: **RW Rother**
Certificate No: 643 Expiry Date: 31 Jan 2014

'Sunspoiler'Φ
Application No: 95/085 Grantee: **RW Rother**
Certificate No: 656 Expiry Date: 22 Aug 2016

'Sunstriker'Φ
Application No: 95/088 Grantee: **RW Rother**
Certificate No: 658 Expiry Date: 22 Aug 2016

'Sunvane'Φ
Application No: 95/090 Grantee: **RW Rother**
Certificate No: 659 Expiry Date: 22 Aug 2016

'White Lace'Φ
Application No: 95/081 Grantee: **RW Rother**
Certificate No: 652 Expiry Date: 22 Aug 2016

PHALARIS
Phalaris aquatica

'Landmaster'Φ
Application No: 95/141 Grantee: **CSIRO, Division of Plant Industry**
Certificate No: 613 Expiry Date: 16 Aug 2016

PHOTINIA
Photinia xFraseri

'Allyn Sprite'Φ
Application No: 94/198 Grantee: **VF and NC Jupp**
Certificate No: 664 Expiry Date: 4 Oct 2014

POTATO
Solanum tuberosum

'Proloog'Φ
Application No: 95/125 Grantee: **Hettema Zonen Kweekbedrijf BV**
Certificate No: 665 Expiry Date: 23 Aug 2016

'Remarka'Φ
Application No: 95/126 Grantee: **Hettema Zonen Kweekbedrijf BV**
Certificate No: 666 Expiry Date: 23 Aug 2016

SANDWORT
Arenaria montana

'White Pearls'Φ
Application No: 94/075 Grantee: **Boulters Nurseries (Monbulk) Pty Ltd**
Certificate No: 675 Expiry Date: 23 Mar 2014

APPLICATIONS VARIED

The owner details of *Banksia spinulosa* **'Birthday Candles'**Φ (Application No: 89/128, Certificate No: 87) and *Hardenbergia violacea* **'Free 'N' Easy'**Φ (Application No: 92/186, Certificate No: 323) are changed from **Sargetus Pty Ltd** to **Austraflora Pty Ltd.**

The names of *Lolium perenne* **'LP37'** (Application No: 95/232) *and Lolium perenne* **'LP22'** (Application No: 95/233) have been changed to **'Bronsyn'** and **'Nevis'** respectively.

The owner details of *Lolium multiflorum* **'Flanker'** (Application No: 95/226), *Lolium multiflorum* **'LM71'** (Application No: 95/231), *Lolium perenne* **'Bronsyn'** (Application No: 95/232) *and Lolium perenne* **'Nevis'**(Application No: 95/233) have changed from **New Zealand Agriseeds Limited** to **Agriseeds Holdings Limited**.

The owner details of *Mandevilla* **'Cinderella'** (Application No: 93/176), *Homalomena* **'Good as Gold'** (Application No: 95/199), *Grevillea* **'Honey Wonder'** (Certificate No: 186) have changed from **Redlands Greenhouses Pty Ltd** to **Redlands Nursery Pty Ltd.**

The agent details of *Potentilla* **'Marrob'** (Application No: 95/036), *Mandevilla* **'Merlin's Magic'** (Application No: 95/301), *Triticum* **'Ure'** (Application No: 96/035), *Osteospermum* **'Zimba'** (Application No: 96/050), *Osteospermum* **'Kwazulu'** (Application No: 96/051), *Osteospermum* **'Volta'** (Application No: 96/052), *Osteospermum* **'Sunny Lady'** (Application No: 96/053), *Osteospermum* **'Swazi'** (Application No: 96/054), *Osteospermum* **'Sunny Gustaf'** (Application No: 96/055), *Aglaonema* **'Queen of Siam'** (Application No: 96/038), *Radermachera* **'Kaprima'** (Certificate No: 185), *Mandevilla* **'My Fair Lady'** (Certificate No: 201), *Spathiphyllum* **'Sandra'** (Certificate No: 408). *Asplenium* **'Victoria'** (Certificate No: 407), *Hardenbergia* **'Bushy Blue'** (Certificate No: 472), *Nandina* **'Gulf Stream'** (Certificate No: 547) have changed from **Redlands Greenhouses Pty Ltd** to **Redlands Nursery Pty Ltd.**

The commercial synonym for *Rosa* **'Welred'** (Application No: 93/243) has been changed from **Red Centre** to **Eric the Red**.

The denomination of *Phalaris* **'BP 92'** (Application No: 95/141) has been changed to **'Landmaster'** with the synonym **BP92**.

The denomination of *Triticum aestivum* **'VF664'** (Application No: 96/098) has been changed to **'Silverstar'** with the synonym **VF664.**

The denomination of *Argyranthemum* **'Primrose'** (Application No: 95/017) has been changed to **'Primrose Petite'**.

The owner details of *Malus domestica* **'Rafzubin'** (Application No: 88/029) have been changed from **Hauenstein AG** to **Promo-Fruit AG SA Ltd**.

APPLICATIONS WITHDRAWN

Prunus avium **'Sylvia'** Application No: 94/047
Prunus avium **'Summerland'** Application No: 94/048
Malus domestica **'Elshof'** Application No: 95/069
Malus domestica **'Belmont Red'** Application No: 95/137
Scaevola aemula **'Purple Cascade'** Application No: 95/050
Brachyscome ascendens **'Lavender Mist'** Application No: 95/051
Syzygium luehmannii **'Sophie'** Application No: 95/201
Prunus persica var *nucipersica* **'Autumn Royal'** Application No: 96/011
Chamelaucium uncinatum **'Pristine'** Application No: 91/042
Rosa hybrid **'Keimove'** Application No: 94/153

GRANTS SURRENDERED

Lilium hybrid **'Mona Lisa'** Certificate No: 191
Rosa hybrid **'Meifrony'** Certificate No: 169
Rosa hybrid **'Meixtraflo'** syn **Lutin** Certificate No: 170
Rosa hybrid **'Meiperol'** syn **Fidelio** Certificate No: 266

CORRIGENDA

In PVJ 6(4) p7 and 8(2) p14, the variety 93/199 'Sidonie'Φ was given the botanical names *Lavandula pinnata x canariensis* and *Lavandula pinnata* respectively when it is in fact *Lavandula* hybrid.

In the notice of variation to applications in PVJ 7 (1) 3 the botanical name for the variety 93/058 'Sun Snow'Φ was given as *Petunia axillaris* when it is in fact *Petunia* hybrid.

In the acceptance notices in PVJ 6 (2) p32 the botanical name for the varieties 93/087 'Kilkenny Bells'Φ and 93/099 'Velvet Columbine'Φ was given as *Petunia* hybrid when it is in fact *Petunia axillaris*. In the acceptance notices of PVJ 7 (1) 8 the botanical name for the variety 94/015 'Sunkiss'Φ was given as *Petunia axillaris* when it is in fact *Petunia* hybrid. In the acceptance notices of PVJ 8 (2) p4 the botanical name for the varieties 95/081 'White Lace'Φ, 95/082 'Purple Victory'Φ, 95/083 'Sun Avalanche'Φ, 95/084 'Sun Gleam'Φ, 95/085 'Sunspoiler'Φ, 95/088 'Sunstriker'Φ, 95/090 'Sunvane'Φ, 95/091 'Frilled Dragon'Φ, 95/093 'Kristy Rader'Φ and 95/094 'Sun Inferno'Φ was given as *Petunia axillaris* when it is in fact *Petunia* hybrid. In the acceptance notices of PVJ 8 (4) p7 the botanical name for the variety 93/039 'Sun Frost'Φ was given as *Petunia axillaris* when it is in fact *Petunia* hybrid.

The descriptions of the following varieties in 8 (4) gave the botanical name as *Petunia axillaris* when it is in fact *Petunia* hybrid: p9 93/042 'Pink Organdy'Φ, 93/045 'Mariposa Red'Φ, 93/064 'Hotlips'Φ, 95/084 'Sun Gleam'Φ, p10 93/047 'Thai Silk'Φ, 93/049 'Purple Sunspot'Φ, 95/093 'Kristy Rader'Φ, p12 95/088 'Sunstriker'Φ, 95/094 'Sun Inferno'Φ, p14 93/048 'Ravenna Purple'Φ, 93/098 'Orion'Φ, p16 93/062 'Abundance'Φ, p17 93/011 'Pink Mischief'Φ, 93/016 'St. Elmo's Fire'Φ, 93/051 'Pygmy Rose'Φ, 94/015 'Sunkiss'Φ, p19 93/091 'Pink Confusion'Φ, 95/081 'White Lace'Φ, 95/091 'Frilled Dragon'Φ, p21 93/060 'Batavian Night'Φ, p23 93/057 'Rainbow Warrior'Φ, 95/082 'Purple Victory'Φ, p24 95/090 'Sunvane'Φ, p26 93/009 'Blue Wren'Φ, 93/038 'Blue Opal'Φ, p28 93/020 'Colour Flip'Φ, 93/039 'Sun Frost'Φ, 93/058 'Sun Snow'Φ, p30 95/083 'Sun Avalanche'Φ.

In PVJ 9(2), the caption for Fig 37 should read as: Peace Lily 'Metalica' (right) with its comparator 'Sandra'Φ (left).

In PVJ 9(2), p 73 the method of calculating sample standard deviation is given as : calculate n-1... where it should be: calculate σ_{n-1} in the statistical mode if you are using a scientific calculator.

In PVJ 9(2), p51 the name of the breeder of *Helianthus annuus* 'Daniel' should be Daniel Yichki.

APPENDIX 1

FEES

Two fee structures exist as a result of the transition from Plant Variety Rights to Plant Breeders Rights.
For new applications (those lodged on or after 11 November 1995) the PBR fees apply. For older applications lodged before 11 November 1994 and not finally disposed of (Granted, Withdrawn, Refused etc.) the PVR fees in force at the time apply.

Payment of Fees

All cheques for fees should be made payable and sent to:

Plant Breeders Rights Office
DPIE
GPO Box 858
Canberra, ACT 2601

The **application fee** ($300) must accompany the application at the time of lodgement.

Consequences of not paying fees when due
Application fee
Should an application not be accompanied by the prescribed application fee the application will be deemed to be 'non-valid' and neither assigned an application number nor examined for acceptance pending the payment of the fee.

Examination fee

Non-payment of the examination fee of an application will automatically result, at the end of 12* months from the date of acceptance, in a refusal of the application. The consequences of refusal are the same as for applications deemed to be inactive (see 'inactive applications' below).

Field examinations and final examinations falling within the first 12 months will *not* be undertaken without prior payment of the examination fee.

Consideration of a request for an extension of the period of provisional protection from the initial 12 month period may require the prior payment of the examination fee.

Certificate fee

Following the successful completion of the examination, including the public notice period, the applicant will be required and invoiced to pay the certification fee. Payment of the certification fee is a prerequisite to granting PBR and issuing the official certificate by the PBR office. Failure to pay the fee may result in a refusal to grant PBR.

Annual fee

Should an annual renewal fee not be paid within 30 days after the due date, the grant of PBR will be revoked under Section 50 of the PBR Act. To assist grantees, the PBR office will invoice grantees or their Australian agents for renewal fees.

Inactive applications

An application will be deemed inactive if, after 24 months of provisional protection (or 12 months in the case of non-payment of the examination fee) the PBR Office has not received a completed application or has not been advised to proceed with the examination or an extension of provisional protection has not been requested or not granted or a certificate fee has not been paid. Inactive applications will be examined and, should they not fully comply with Section 26 of the PBR Act 1994, they will be refused. As a result provisional protection will lapse, priority claims on that variety will be lost and should the variety have been sold, it will be ineligible for plant variety rights on reapplication. Continued use of labels or any other means to falsely imply that a variety is protected after the application has been refused is an offence under Section 53(1) of the Act.

NEW APPLICATIONS (LODGED ON OR AFTER 11 NOVEMBER 1994).

PBR Fees	**$**
Application	300
Examination - single application	1400
Examination - application based on overseas test data	1400
Examination - multiple applications* (per application)	1200
Certificate of PBR	300
Total Basic Fees	2000

* Applicable when two or more Part 2 Applications are lodged simultaneously and the varieties are of the same genus and the examinations can be completed at one location at the same time.

Annual Fee	300

Other Fees	
Variation to application	100
Copy of an application, an objection or a detailed description	50
Lodging an objection	100
Application for declaration of essential derivation	800
Application for (a) revocation of a PBR	500
(b) revocation of a declaration of essential derivation	500
Compulsory licence	500
Request under subsection 19(11) for exemption from public access - varieties with no direct use as a consumer product	100
Amendment of the Register on notification of assignment	100
Copy of an entry in the Register	50
Annual subscription to Plant Varieties Journal	40
Back issues of Plant Varieties Journal	14
Other work relevant to PBR - per hour or part thereof	75

Old applications (lodged before 10 November 1994).

PVR fees	**$**
Examination of application	1400
Certificate of PVR	250
Total Basic Fees	2050
Annual Renewal Fee	(see note under)

Other Fees

Variation to application	70
Copy of application	70
Lodging an objection	200
Copy of objection	70
Compulsory license	140
Transfer of rights	140
Other work relevant to PVR (per hour)	70

Note: Once an application has been granted rights under PVR it is treated as if those rights had been granted under PBR. Therefore after grant, all PBR fees apply (including the annual fee).

The appropriate **examination fee** must be paid before the expiry of the 12th month from the date of acceptance of the application or prior to field examination whichever occurs first. The PBR office will routinely invoice the applicant or their agent for the examination fee at the time nominated on the application form. At the end of the 11th month after acceptance of the application, should the examination fee not have been paid, a final invoice (reminder) will be despatched to the applicant.

APPENDIX 2

Plant Breeders Rights Advisory Committee (PBRAC)

(Members of the PBRAC hold office in accordance with Section 85 of the *Plant Breeder's Rights Act 1994*.)

Dr Brian William Hare
Director of Research
Pacific Seeds Pty Ltd
6 Nugent Crescent
TOOWOOMBA QLD 4350

Representing Plant Breeders

Ms Cheryl Ann McCaffery
Intellectual Property Manager
Florigene Pty Ltd
18 Hutchinson Street
EAST BRUNSWICK VIC 3057

Member with appropriate qualifications and experience

Ms Natalie Florence Peate
Nursery Owner
26 Kardinia Crescent
WARRENWOOD VIC 3134

Member with appropriate qualifications and experience

Mr. Hugh Roberts
Farmer
'Birralee'
COOTAMUNDRA NSW 2694

Representing Users

Prof Margaret Sedgley
University of Adelaide
Waite Campus
GLEN OSMOND SA 5064

Representing Plant Breeders

Dr D A I (Dai) Sutter
General Manager
Weston Food Laboratories
1 Braidwood Street
ENFIELD NSW 2136

Representing Consumers

Mr Doug Waterhouse (Chair)
Acting Registrar of Plant Breeders Rights
GPO Box 858
CANBERRA ACT 2601

SUMMARY OF MINUTES OF PBRAC MEETING HELD ON 1 MAY 1996

The new committee decided to facilitate a wider circulation of the minutes of meeting to the member's constituencies by publication of a summary of the proceedings in certain issues of the Plant Variety Journal and in industry newsletters.

Mr Bruce Lilburn, Assistant Secretary, Horticulture Branch, and Mr Doug Waterhouse, Acting Registrar of the Plant Breeders Rights Office (PBR) and Chair of the PBRAC, welcomed the members of the newly appointed committee to the first 1996 PBRAC meeting.

Mr Lilburn thanked all members for attending the meeting and outlined the responsibilities of the PBRAC and its interaction with the Department of Primary Industries and Energy (DPIE). Following this Mr Waterhouse spoke to the committee at length about the role of the PBR Office, its scope of protection and its broad relationships with other national and international schemes. Mr Waterhouse advised that PBR recognises short and long term breeding methodologies and recognises the breeder rather than the variety as the recipient of any potential rewards (one of the reasons for the change of name to PBR).

Mr Waterhouse recognised that breeding requires substantial investment and advised that there are three distinct types of beneficiary from PBR, ie breeders (through royalties etc), producers (increased productivity, quality, etc) and consumers (wider range of products, competition for market share, etc). He stated that it is essential to expand Australian access to new (improved) varieties on a global scale as without variety protection breeders may not allow the use of their material in Australia. This is particularly important in the agricultural and crop industries, for example the introduction and protection of a new banana "Goldfinger" will significantly increase the area of production with commensurate effects on trade.

PBR in Australia was created in 1987 under the Plant Variety Rights Act and was reviewed and amended to the Plant Breeders Rights Act in 1994. PBR is Commonwealth legislation and is administered by the DPIE. It conforms to the conventions of the International Union for the Protection of Variety Rights (UPOV). The Registrar spoke at length about UPOV, its member countries, Australia's future gains from membership, and its links with the World Intellectual Property Organisation (WIPO) and the World Trade Organisation (WTO).

PBR protection of a variety covers (i) propagating material, (ii) harvested material, and (iii) products made directly from harvested material, ie. 3 tier protection. An example given was apples where there is protection for trees, a market for fruit and manufactured juice. However the Registrar advised that a breeder can only benefit at one tier of protection after which the right is exhausted. PBR also covers *essentially derived* (ED) varieties and *dependent* varieties. Also under protection are the variety name or names. An added benefit is reasonably easy access to similar schemes in other UPOV countries.

The Registrar spoke to the committee about the PBR Office's client focus and the dual role of the Qualified Person (QP) to the applicant and the office. Because of their expertise, the QP is employed by the applicant to ensure technical rigour in the processing of the application. There is now an annual QP accreditation fee paid to the PBR office and training workshops for approximately 260 QPs (both consultant and non consultant) is organised by the PBR office each year in each state. A list of consultant QP's is published in the PVJ.

The committee was advised that linkages between PBR and the Australian Industrial Property Organisation (AIPO) had been investigated by the Messrs Lilburn and Waterhouse. However, there appeared to be no advantage at this time in linking the PBR and AIPO databases. An examiner from AIPO had visited the PBR Office and talked to staff but, as minimal work is received by AIPO (3 varieties per year compared with 300 by PBR), there was little duplication of effort or competition between the schemes.

The issue of *previous common use of a variety name* applied for under PBR is being addressed by the office by searching the best databases available, ie PBR, UPOV and Greenlife databases (*Greenlife* is produced in conjunction with the Melbourne Botanical Gardens), before acceptance of the application.

The committee recommended the following amendments be made to the PBR Act 1994:

- That the relevant Section of the PBR Act 1994 requiring an Australian postal address for overseas applicants be amended to allow the use of a foreign postal address. This amendment is appropriate in the light of changes in communication technology. In addition to the normal details, applicants would be encouraged to supply fax and E-mail information.

- That an amendment be made to Section 36 of the PBR Act 1994 to allow commercially sensitive information in relation to breeding information to be supplied on a separate page not forming part of the application in terms of Section 36. This will ensure that sensitive information is not available to public access and remains confidential at all times.

- That an amendment be added to Section 37(2)(b)(i) of the PBR Act so that an applicant is *obliged to supply material to a third party* for comparative testing (under strict protection) within a set time frame. The amendment to state that if supply material for testing is not provided, then that variety will be liable for rejection of application or revocation of grant for failure to comply. This amendment will necessitate a contingent amendment be made to Section 37(3)&(4).

The committee agreed to meet again on Wednesday 23 October 1996.

APPENDIX 3

INDEX OF ACCREDITED CONSULTANT 'QUALIFIED PERSONS'

The following persons have been accredited by the Plant Breeders Rights office based on information provided by these persons. From the information provided by the applicants, the PBR office believes that these people can fulfill the role of 'qualified person' in the application for plant breeder's rights. Neither accreditation nor publication of a name in the list of persons is an implicit recommendation of the person so listed. The PBR office cannot be held liable for damages that may arise from the omission or inclusion of a person's name in the list nor does it assume any responsibility for losses or damages arising from agreements entered into between applicants and any person in the list of accredited persons. Qualified persons charge a fee for services rendered.

A guide to the use of the index of consultants:

- locate in the left column of Table 1 the plant group for which you are applying;

- listed in the right column are the names of accredited qualified persons from which you can choose a consultant;

- in Table 2 find that consultant's name, telephone number and area in which they are willing to consult (they may consult outside the nominated area);

- using the "Nomination of Qualified Person" form as a guide, agree provisionally on the scope and terms of the consultancy; complete the form and attach it to Part 1 of the application form;

- when you are notified that your nomination of a consultant qualified person is acceptable in the letter of acceptance of your application for PBR you should again consult the qualified person when planning the rest of the application for PBR.

TABLE 1

PLANT GROUP /SPECIES /FAMILY	CONSULTANT'S NAME (TELEPHONE AND AREA IN TABLE 2)
Apple	Baxter, Leslie Jotic, Predo Mackay, Alastair Mitchell, Leslie Robinson, Ben Scholefield, Peter Stearne, Peter Tancred, Stephen Valentine, Bruce
Aquatic	Birkill, Ann-Marie
Anigozanthos	Paananen, Ian Kirby, Greg
Aroid	Clarke, Charles
Azalea	Barrett, Mike Hempel, Maciej Paananen, Ian
Barley (Common)	Morgan, Stuart A Trethowan, Richard
Berry Fruit	Robinson, Ben Scholefield, Peter Wilson, Stephen
Blueberry	Barthold, Graham
Bougainvillea	Iredell, Janet Willa
Brassica	Aberdeen, Ian Cross, Richard Kadkol, Gururaj McMichael, Prue Robinson, Ben Scholefield, Peter
Bromeliads	Clarke, Charles
Buddleia	Robb, John Paananen, Ian
Camellia	Paananen, Ian Robb, John
Carnivorous Plants	Clarke, Charles
Cereals	Bullen, Kenneth Cook, Bruce Cooper, Kath Cross, Richard Davidson, James Derera, Nicholas AM Gardner, Anne Hare, Raymond Henry, Robert J Kidd, Charles Law, Mary Ann McDonald, David Mitchell, Leslie Oates, John Poulsen, David Reid, Robert Rees, Robert Rose, John Scattini, Walter John Smart, Geoffrey Stearne, Peter Stuart, Peter Vertigan, Wayne Williams, Warren Wilson, Frances
Cherry	Kennedy, Peter Mackay, Alastair Mitchell, Leslie Robinson, Ben Scholefield, Peter
Chickpeas	Goulden, David Morgan, Stuart A
Citrus	Edwards, Megan Fox, Primrose Lee, Slade McDonald, David Mitchell, Leslie Robinson, Ben Scholefield, Peter Sykes, Stephen
Clover	Miller, Jeff Mitchell, Leslie Nichols, Phillip
Conifer	Stearne, Peter
Cotton	Bullen, Kenneth Derera, Nicholas AM Leske, Richard Thomson, Norman
Cucurbits	Cross, Richard Herrington, Mark McMichael, Prue Robinson, Ben Scholefield, Peter Sykes, Stephen
Cydonia	Baxter, Leslie
Dogwood	Stearne, Peter
Feijoa	McDonald, David Robinson, Ben Scholefield, Peter
Fig	FitzHenry, Daniel
Forage Brassicas	Goulden, David
Forage Grasses	Berryman, Tim Bray, Robert Kirby, Greg Mitchell, Leslie
Forage Legumes	Miller, Jeff Bray, Robert
Forest Trees	Lubomski, Marek
Fruit	Beal, Peter Kerly, Rod Lenoir, Roland Mitchell, Leslie Robinson, Ben Scholefield, Peter
Grapes	Biggs, Eric Mitchell, Leslie Robinson, Ben Scholefield, Peter Stearne, Peter Sykes, Stephen
Grevillea	Herrington, Mark
Hydrangea	Hanger, Brian
Impatiens	Paananen, Ian
Jojoba	Dunstone, Bob

Legumes
Aberdeen, Ian
Bowman, Alison
Bray, Robert
Cameron, Stephen
Cook, Bruce
Downes, Ross
Hacker, Bryan
Imrie, Bruce
Kirby, Greg
Knights, Edmund
Law, Mary Ann
Loch, Don
McDonald, David
Mitchell, Leslie
Morgan, Stuart A
Reid, Robert
Rose, John

Lentils
Goulden, David

Lucerne
Mitchell, Leslie
Bray, Robert
Nichols, Phillip

Magnolia
Paananen, Ian

Myrtaceae
Dunstone, Bob
Reid, Robert

Native grasses
Waters, Cathy

Neem
Friend, Joe

Oat
Morgan, Stuart A
Trethowan, Richard

Oilseed crops
Downes, Ross
Kidd, Charles
Poulsen, David

Onions
Cross, Richard
Fennell, John
McMichael, Prue
Robinson, Ben
Scholefield, Peter
Strange, Pamela

Orchids
Clarke, Charles

Ornamentals - Exotic
Armitage, Paul
Angus, Tim
Birkill, Ann-Marie
Cameron, Stephen
Collins, Ian
Cooling, Beth
Cross, Richard
Dawson, Iain
Derera, Nicholas AM
Fisk, Anne Marie
Fitzhenry, Daniel
Hempel, Maciej
Kirkham, Roger
Lenoir, Roland
Lowe, Greg
Lubomski, Marek
Lunghusen, Mark
McMichael, Prue
Mitchell, Leslie
Nichols, David
Oates, John
Paananen, Ian
Richardson, Clive
Robb, John
Robinson, Ben
Scholefield, Peter
Singh, Deo
Stearne, Peter
Stewart, Angus
Strange, Pamela
Watkins, Phillip
Van der Ley, John

Ornamentals - Indigenous
Allen, Paul
Barrett, Mike
Beal, Peter
Bound, Sally Anne
Collins, Ian
Cooling, Beth
Dawson, Iain
Derera, Nicholas AM
Downes, Ross
Henry, Robert J
Hockings, David
Jack, Brian
Jusaitis, Manfred
Kirby, Greg
Kirkham, Roger
Lenoir, Roland
Lowe, Greg
Lunghusen, Mark
McMichael, Prue
Molyneux, W M
Nichols, David
Oates, John
Robinson, Ben
Scholefield, Peter
Singh, Deo
Stearne, Peter
Strange, Pamela
Tan, Beng
Watkins, Phillip
Worrall, Ross

Ornithopus
Nichols, Phillip

Osmanthus
Paananen, Ian
Robb, John

Pastures & Turf
Aberdeen, Ian
Avery, Angela
Berryman, Tim
Bowman, Alison
Cameron, Stephen
Cook, Bruce
Cunningham, Peter
Downes, Ross
Harrison, Peter
Hacker, Bryan
Kaapro, Jyri
Kirby, Greg
Loch, Don
Miller, Jeff
Mitchell, Leslie
Rose, John
Smith, Raymond
Scattini, Walter John
Williams, Warren
Wilson, Frances

Pear
Baxter, Leslie
Mackay, Alastair
Robinson, Ben
Scholefield, Peter
Tancred, Stephen
Valentine, Bruce

Petunia
Paananen, Ian
Nichols, David

Photinia
Robb, John

Pistacia
Richardson, Clive
Sykes, Stephen

Pisum
Goulden, David
McMichael, Prue
Morgan, Stuart A

Potatoes
Cross, Richard
Fennell, John
Kirkham, Roger
McMichael, Prue
Robinson, Ben
Scholefield, Peter
Strange, Pamela
Stearne, Peter

Proteaceae
Alexander, Susan
Kirby, Neil
Reid, Robert
Robb, John
Robinson, Ben
Scholefield, Peter

Pulse Crops
Bullen, Kenneth
Cross, Richard
Kidd, Charles
Oates, John

Prunus
Mackay, Alastair
Topp, Bruce

Raspberry
Barthold, Graham
Martin, Stephen
Robinson, Ben
Scholefield, Peter

Rhododendron
Barrett, Mike
Paananen, Ian

Roses
Barrett, Mike
Cross, Richard
Fitzhenry, Daniel
Fox, Primrose
Hanger, Brian
Lee, Peter
McDonald, David
Robinson, Ben
Scholefield, Peter
Stearne, Peter
Strange, Pamela
Swane, Geoff
Syrus, A Kim
Van der Ley, John

Rye (Common)
Trethowan, Richard

Sesame
Imrie, Bruce

Sugarcane
McRae, Tony

Soybean
Andrews, Judith

Stone Fruit
Barrett, Mike
Boucher, Wayne
Mackay, Alistair
Robinson, Ben
Scholefield, Peter
Valentine, Bruce

Strawberry
Barthold, Graham
Herrington, Mark
Martin, Stephen
Mitchell, Leslie
Morrison, Bruce
Robinson, Ben
Scholefield, Peter
Strange, Pamela
Wilson, Stephen
Zorin, Clara

Tomato
Cross, Richard
Herrington, Mark
Martin, Stephen
McMichael, Prue
Robinson, Ben
Scholefield, Peter
Strange, Pamela

Triticale (x Triticosecale Wittmack)
Trethowan, Richard

Tropical/Sub-Tropical Crops
Bullen, Kenneth
Kulkarni, Vinod
Robinson, Ben
Scholefield, Peter

Umbrella Tree
Paananen, Ian

Vegetables
Beal, Peter
Cross, Richard
Derera, Nicholas AM
Frkovic, Edward
Kirkham, Roger
Kerly, Rod
Lenoir, Roland
Oates, John
McMichael, Prue
Pearson, Craig
Robinson, Ben
Scholefield, Peter
Scott, Peter
Strange, Pamela
Van Holthe, Jan Westra

Verbena
Paananen, Ian

Wheat (aestivum & durum groups)
Gardner, Anne
Trethowan, Richard

TABLE 2

NAME	TELEPHONE	AREA OF OPERATION

• = Fax number
•• = Phone and Fax number

Aberdeen, Ian	057-82 1029	SE Australia
Alexander, Susan	002-784 333	Tasmania
Allen, Paul	07-3824 0263	SE QLD, Northern NSW
Andrews, Judith	069-530 214	
	069-530 268 •	Southern NSW, Northern VIC
Angus, Tim	047 515 702	Australia and New Zealand
Armitage, Paul	03-9735 1362	Victoria
Avery, Angela	060-262205	South Eastern Australia
Barthold, Graham	059-97 1413	Southern Victoria
Barrett, Mike	02-875 3087	NSW/ACT
Baxter, Leslie	002-336 609	Tasmania
Beal, Peter	07-328 61488	QLD & Northern NSW
Berryman, Tim	045 775 172	Sydney & Environs
Biggs, Eric	050-23 2400 ••	Mildura Area
Birkill, Ann-Marie	07-3374 1839	Australia
Boucher, Wayne	002-664 305	Tasmania
Bound, Sally Anne	002-784 357	Tasmania
Bowman, Alison	068-887 404	North/Western NSW & QLD
Bray, Robert	07-3378 3158	QLD & Northern NSW
Bullen, Ken	063-62 4539	QLD/NSW/VIC
Cameron, Stephen	003-036 5422	Tasmania
Clarke, Charles	077-81 5727	North Queensland
Collins, Ian	045-666 177	Sydney
Cook, Bruce	074-82 1522	Queensland
Cooling, Beth	075-5332277(w)	
	075-332 277(a/h)	Gilston, Queensland
Cooper, Katharine	08-372 2280	Australia
Cross, Richard	64-3-325 6400	
	64 3 325 2074•	New Zealand
Cunningham, Peter	055-730900	Temperate regions of Australia
Davidson, James	06-246 5071	High rainfall zone of temperate Australia
Dawson, Iain	06- 251 2293	ACT, South East NSW
Derera, Nicholas AM	02-639 3072	Australia
Downes, Ross	06-255 1461••	ACT, South East Australia
Dunstone, Bob	06-281 1754	South East NSW
Edwards, Megan	050-245603	VIC/NSW
Fennell, John	004-217 633	Tasmania
FitzHenry, Daniel	048-622 487	Sydney and surrounding districts
Fox, Primrose	02-629 2245	Sydney
Friend, Joe	066-886150	Northern QLD & NSW
Frkovic, Edward	069-62 7333	Australia
Gardner, Anne	06 246 5374	
	06 246 5399/5255 •	Australia, New Zealand
Goulden, David	64-3-325 6400	
	64-3-325 2074 •	New Zealand
Hacker, Bryan	07-377 0210	South QLD, Northern NSW
Hanger, Brian	03-9756 7532	Victoria
Hare, Ray	067-631 232	QLD, NSW VIC & SA
Harrison, Peter	08 8948 1894	Casuarina, NT and NW of WA
Hempel, Maciej	046-28 0376	NSW, QLD, VIC, SA
Henry, Robert J	07-3870 9007	SE Queensland
Herrington, Mark	074-412211	Southern Queensland
Hockings, Francis David	074-943385	Southern Queensland
Imrie, Bruce	07-3377 0238	SE Queensland
Iredell, Janet Willa	07-32026351 ••	SE Queensland
Jack, Brian	099-525 040	South West WA
Jotic, Predo	002-664305	Tasmania
Jusaitis, Manfred	08-336 3755	South Australia
Kadkol, Gururaj	053-82 1269	North Western Victoria
Kaapro, Jyri	02-736 1233	
	02-743 6348 •	Sydney and surrounding areas
Kennedy, Peter	063-82 1077	Australia
Kerly, Rod	059 788 508 ••	Australia
Kidd, Charles	08 8842 3591	
	08 8842 3066 •	Southern Australia
Kirby, Greg	08-201 2176	South Australia
Kirby, Neil	047-542 637	New South Wales
Kirkham, Roger	059-571 200	Victoria
Knights, Edmund	067-631 100	North Western NSW
Kulkarni, Vinod	089 922 221	Australia
Law, Mary Ann	076-38 4322	Toowoomba region
Lenoir, Roland	06-231 9063	Australia
Lee, Peter	003-301147	SE Australia
Lee, Slade	071-556 244	Queensland/Northern New South Wales
Leske, Richard	076-713136	Cotton growing regions of QLD & NSW
Loch, Don	074-821522	Queensland
Lowe, Greg	043-844 128 ••	Sydney, Central Coast NSW
Lubomski, Marek	07-55253 023 ••	NSW & QLD
Lunghusen, Mark	03-97231751	Melbourne & environs
Mackay, Alastair	097-711 299 Ph	Western Australia
	097-712 544 •	
Martin, Stephen	002-784 307	Tasmania
McDonald, David	088-327 911	
	083-630 610 •	Victoria/NSW/SA/QLD
McMichael, Prue	083-732 488	
	083-732 442•	SE Australia
McRae, Tony	079545100	
	079 545 167•	Australia
Miller, Jeff	64-6-358-6019	
	extn 8106	Manawatu region, New Zealand
Mitchell, Leslie	058-212 021	
	058 311 592 •	VIC, Southern NSW
Molyneux, William	03-9728 1222	Victoria
Morgan, Stuart A	09-3683500	
	09-4742840	South West Division, WA
Morrison, Bruce	03-9210 9251	East of Melbourne
Nichols, David	059-77 4755	SE Melbourne, Mornington Peninsula and Dandenong Ranges, Victoria
Nichols, Phillip	09-368 3229	Western Australia
Oates, John	046-51 2601	Sydney region, Eastern Australia
Paananen, Ian	043-62 2418	Sydney/Newcastle
Poulsen, David	076-61 2944	SE QLD, Northern NSW
Reid, Robert	003-36 5449	Australia
Richardson, Clive	051 55 0255	
	051 43 2168	NSW and VIC
Robb, John	043-76 1330	
	043-76 1271 •	Sydney, Central Coast NSW
Robinson, Ben	08-373 2488	SE Australia
Rose, John	076-61 2944	SE Queensland
Scattini, Walter John	07-3356 0863/356 0371	
	07-3356 0863 •	Tropical and sub-tropical Australia
Scholefield, Peter	08 373 2488	SE Australia
Scott, Peter	06-653 1362	Sydney region
Singh, Deo	018-880 787	
	07-3207 5998 •	Brisbane
Smart, Geoffrey	046 512 600	New South Wales
Smith, Stuart	003-36 5234	SE Australia
Stearne, Peter	02-262 2611	Sydney, ACT & NSW
Stewart, Angus	043-253 944	Sydney, Gosford
Strange, Pamela	08-373 2488	South Australia
Stuart, Peter	076-902 666	SE Queensland
Swane, Geoff	068-89 1545	Central western NSW
Syrus, A Kim	085-56 2555	Adelaide
Tan, Beng	09-351 7168	Perth & environs
Tancred, Stephen	076-81 1255	QLD, NSW
Thomson, Norman	067-93 1105	NSW, QLD
Topp, Bruce	076 811 255	SE QLD, Northern NSW
Trethowan, Richard	053-622 111	Victoria
Valentine, Bruce	063 61 3919	New South Wales
Van Holthe Jan Westra	03-9706 3033	Australia
Vertigan, Wayne	003-36 5221	Tasmania
Watkins, Phillip	09-525 1800	Perth Region
Waters, Cathy	068	
Williams, Warren	64-6-356 8019	New Zealand
Wilson, Frances	64-3-318 8514	Canterbury, New Zealand
Wilson, Robert	054-496 244	VIC, Murray Region of NSW
Wilson, Stephen	002-784 364	SE Australia
Worrall, Ross	043-280 300	Australia
Van Der Ley, John	065-615047	
	065 615138 •	Sydney to Brisbane and New England area
Zorin, Clara	07-3207 4306	Eastern Australia

APPENDIX 4

Preparing Descriptions Based on Overseas Test Reports

Under certain conditions it is possible for the qualified person to prepare a description of a variety based on an overseas test report obtained from another UPOV member country. The main advantage in using these reports is that often (but not always) time and costs can be reduced by avoiding the need for a full comparative trial to be conducted. The main disadvantage is that if a public comment or objection regarding the DUS of the variety is received then it is more than likely that a full comparative trial will have to be conducted at some stage.

Once the overseas test report has been received the QP should first ensure that it meets the conditions for use in preparation of the Part 2 application and description without the need for a DUS trial. These conditions are that;

• the variety has previously been test grown in another UPOV member country using official UPOV test guidelines and test procedures, and

- **either**, all the most similar varieties of common knowledge (including those in Australia) have been included in the overseas DUS trial

- **or**, the new overseas variety is so clearly distinct from all the Australian varieties of common knowledge that further DUS test growing is not warranted.

• sufficient data and descriptive information is available to publish an official description of the variety in an accepted format in the Australian *Plant Varieties Journal.*

the UPOV test report is certified as being a true copy of the original.

the test report is in English except where it follows a UPOV Technical Questionnaire in which case German and French are also accepted.

ROLE OF THE QUALIFIED PERSON

The QP, in consultation with the agent/applicant, and perhaps other specialists and taxonomists, will need to evaluate the data, test report and photographs to see if the application does fulfill all PBR Office requirements, and then advise the agent/applicant:

- **either**, to submit part 2 incorporating a description for publication, any additional DUS data and photographs and to pay the examination fee. It is prudent for a QP to confirm the expression of a variety's essential characteristics under local conditions,

- **or**, to conduct a DUS trial in Australia, recommending to the applicant/agent which additional varieties of common knowledge should be included;

- **or**, to include additional data from, or information about similar varieties in Australia to show that they are so clearly distinct from the applicant's variety that a further DUS test growing including the similar varieties is not warranted.

Often the data included with UPOV Test Reports is quite sparse and it is advisable that additional data is obtained directly from the breeder or from observations of the variety in Australia. Generally the strongest most legally sustainable grants are those in which the test report is confirmed and supported by additional observations made in Australia.

In preparing a description of the variety it is acceptable to use locally obtained observations in conjunction with data from overseas provided that the source of the information is clearly indicated. Descriptions which are based on overseas test reports should contain the following, or similar statements in the information on comparative trials;

"Vegetative characters obtained from Overseas Test Report. Flower colours confirmed in Australia"

"The overseas data was confirmed by observations made on locally grown material."

"The QP considers <Variety> and <Variety> to be the closest known comparators in Australia. These varieties differ significantly from the candidate variety in ....<list essential differences>."

In some cases it is not possible or practical to produce a comparative table for descriptions based entirely on overseas data. If the overseas test report is based on a UPOV technical guideline (eg as for Roses) then it is acceptable to produce a description without including a comparative table. However the qualified person should indicate in the text the characters which make the variety distinct from the closest available varieties in Australia.

A comparative slide and photograph of the variety for publication in the *Plant Varieties Journal* may be obtained either from the overseas breeder of from locally grown material.

In all other respects the preparation of the description is the same as for varieties based on Australian comparative trials. If in doubt it is prudent to contact the PBR office for advice on specific requirements.

APPENDIX 5

Multiple Range Tests

In the last issue of the *Plant Varieties Journal* (Vol. 9 No. 2) we published an article on how to calculate Least Significant Difference (LSD) with some worked examples. We also mentioned that there are some limitations in using LSDs. One of the most important limitations of LSDs is that they should not be used when a trial consists of two or more candidate varieties compared with multiple comparators.

Over the decades, statisticians have developed many procedures to compare between multiple means. In general, these tests are labeled as **multiple range tests**. All are based on two or more critical values when comparing between multiple means and they are more powerful and reliable than an LSD which is based on a single critical value.

In this issue, we will discuss two important multiple range tests with worked examples,
These are:

1) Duncan's Multiple Range (DMR) test and
2) Student-Newman-Keuls (SNK) test

Before performing these tests we have to keep in mind that their legitimate use only applies when an Analysis of Variance (ANOVA) F test reveals significant differences between the treatment means. Please refer to *Plant Varieties Journal* 9(2) p 75-77 for the calculation procedures of ANOVA.

1) Duncan's Multiple Range test

In 1955 Duncan devised a method to compare each treatment mean with every other treatment mean. The procedure is simple and powerful and has become very popular among researchers especially in the plant science area.

The following example will be helpful to understand the procedure. There are 2 candidates (variety A and variety B) and 4 comparators (varieties C to F) in a randomised complete block design with four replications. We want to compare the mean leaf length of these varieties. The data and the Analysis of variance (ANOVA) are presented below.

Table 1: Leaf length (mm)

Variety	A	B	C	D	E	F
Rep 1	49.6	71.2	67.6	53.2	73.3	55.5
Rep 2	47.5	68.6	70.3	59.6	68.5	54.3
Rep 3	45.2	69.3	65.2	56.2	63.3	50.2
Rep 4	48.7	70.5	64.2	62.7	70.4	49.3
Variety mean	**47.75**	**69.90**	**66.83**	**57.93**	**68.88**	**52.33**

Table 2: ANOVA

Source of Variation	*SS*	*df*	*MS*	*F*	*P-value*
Replication	46.62	3	15.54	1.90	
Varieties	1737.88	5	347.57	42.64	P ≤0.01
Error	122.25	15	**8.15**		
Total	1906.76	23			

From the ANOVA F test, it is evident that there are significant differences between the variety means; however, it does not in any way indicate which means are different or the magnitude of differences. A pairwise t test could be used to compare each candidate with each comparator or a DMR test could be performed to find the differences between the various mean combinations.

Step 1: Rank the means in ascending order.

Rank1	Rank2	Rank3	Rank4	Rank5	Rank6
A	F	D	C	E	B
47.75	52.33	57.93	66.83	68.88	69.90

Step 2: Calculate the standard error of the mean (s_x) derived from the Mean Square of Error (MSE) highlighted in Table 2 as:

$s_x = \sqrt{MSE/n}$ where, n= number of replications

$s_x = \sqrt{8.15/4} = 1.43$

Step 3: Use the Duncan's Multiple Range Table for ranked order of means at p = 0.01. This table is found in the back of almost every statistics text book. For your convenience we are publishing the table in Appendix 6. First, look vertically for the appropriate df value which is the df value for error in the ANOVA table (in this example 15) then move horizontally to find the rp values for the ranked order of mean. (in this example look for Rank 2 to Rank 6)

The tabulated r_p values for Rank 2 to Rank 6 for df 15 at p = 0.01 are given below :

	Rank2	Rank3	Rank4	Rank5	Rank6
r_p	4.168	4.347	4.463	4.547	4.610

Step 4: Calculate the critical value Dp, what Duncan has termed as the "shortest significant range" by using the formula $Dp = r_p \times s_x$

	Rank2	Rank3	Rank4	Rank5	Rank6
r_p	4.168	4.347	4.463	4.547	4.610
s_x	1.43	1.43	1.43	1.43	1.43
Dp	**5.96**	**6.22**	**6.38**	**6.50**	**6.59**

It may be noted that Duncan's critical value Dp gradually increases as the varieties are ranked further apart. It means

that the "protection level" of the test decreases with increasing number of means making DMR test a more powerful tool than the LSD. Consequently, there is a high probability of declaring a difference when there is actually a difference between the variety means. Its reliability is one of the reasons that Duncan's procedure has been extremely popular among researchers.

Step 5: Compare the ranked means in all possible combinations. Beginning with the largest mean, each variety mean is compared to the smallest mean using the appropriate critical value (Dp). For example, the largest mean (Var B) and the smallest mean (Var A) are 6 steps apart in the ranked order therefore the correct critical value for comparing them would be 6.59. The mean difference between these two varieties is 22.15 which is higher than the Duncan's critical value therefore we can conclude that these two means are significantly different at P=0.01. Similarly when comparing the second largest mean (Var E) with the smallest mean (Var A) we would use the critical value of 6.50 because these two means are 5 steps apart in the ranked order. The results of mean comparisons in all possible combinations using the appropriate Dp values are summarised below:

Step 6 We can now summarise the results from the above comparison as:

There are no significant differences between varietal means of B, E and C however they are significantly different from D, F and A.There is no significant difference between the varietal means of D and F, there is also no significant difference between the varietal means of F and A, therefore, variety F falls within the grouping range of both variety D and A. However, variety D is significantly different from variety A.

This is usually presented in the following format:

Variety B 69.90^{a}
Variety E 68.88^{a}
Variety C 66.83^{a}
Variety D 57.93^{b}
Variety F 52.33^{bc}
Variety A 47.75^{c}

Note: Superscripts a,b and c are the grouping ranges within which the varietal mean values are not significantly different at P≤0.01.

2) Student-Newman-Keuls (SNK) Test

This test was independently developed by Newman (1939) and Keuls (1952). The name 'Student' likewise is associated as the procedure makes use of the studentised range values. The same general method and type of calculations are performed in both SNK and DMR tests. The same example and data from Table 1 is used to demonstrate the procedure.

Step 1 : Rank the means in ascending order.

Rank1	Rank2	Rank3	Rank4	Rank5	Rank6
A	F	D	C	E	B
47.75	52.33	57.93	66.83	68.88	69.90

Step2: Calculate the standard error of the mean (s_x) derived from the Mean Square of Error (MSE) as:

$s_x = \sqrt{MSE/n}$ where, n= number of replications

$s_x = \sqrt{8.15/4} = 1.43$

Step 3: Use the table for Studentised Range Values (sr) for ranked order of mean at p = 0.01. This table is found in the back of almost every statistics text book. For your convenience we are publishing this table in Appendix 7. First, look vertically for the appropriate df value which is the df value for error in the ANOVA table (in this example 15) then move horizontally to find the sr values for the ranked order of mean. (in this example look for Rank 2 to Rank 6)

The tabulated sr values for Rank 2 to Rank 6 for df. 15 at p = 0.01 are given below :

	Rank2	Rank3	Rank4	Rank5	Rank6
s_r	4.17	4.84	5.25	5.56	5.80

Comparison	Mean Difference	Steps apart	Dp Value	Conclusion
B - A	69.90 - 47.75 = 22.15	6	6.59	significantly different
E - A	68.88 - 47.75 = 21.13	5	6.50	significantly different
C - A	66.83 - 47.75 = 19.08	4	6.38	significantly different
D - A	57.93 - 47.75 = 10.18	3	6.22	significantly different
F - A	52.33 - 47.75 = 4.58	2	5.96	not significantly different
B - F	69.90 - 52.33 = 17.57	5	6.50	significantly different
E - F	68.88 - 52.33 = 16.55	4	6.38	significantly different
C - F	66.83 - 52.33 = 14.50	3	6.22	significantly different
D - F	57.93 - 52.33 = 5.60	2	5.96	not significantly different
B - D	69.90 - 57.93 = 11.97	4	6.38	significantly different
E - D	68.88 - 57.93 = 10.95	3	6.22	significantly different
C - D	66.83 - 57.93 = 8.90	2	5.96	significantly different
B - C	69.90 - 66.83 = 3.07	3	6.22	not significantly different
E - C	68.88 - 66.83 = 2.05	2	5.96	not significantly different
B - E	69.90 - 68.88 = 1.02	2	5.96	not significantly different

Step 4: Calculate the critical value S-N-K, by using the formula S-N-K = s_r x s_x

	Rank2	Rank3	Rank4	Rank5	Rank6
s_r	4.17	4.84	5.25	5.56	5.80
s_x	1.43	1.43	1.43	1.43	1.43
S-N-K	**5.96**	**6.92**	**7.50**	**7.95**	**8.29**

Like DMR test, the critical values for S-N-K also increases with the increasing number of ranks, however the S-N-K procedure is more conservative (i.e. the means have to be further apart to be deemed significant) than DMR. This is reflected in the higher critical values for S-N-K test. A comparison between the critical values of the two tests are given below:

	Rank2	Rank3	Rank4	Rank5	Rank6
S-N-K	**5.96**	**6.92**	**7.50**	**7.95**	**8.29**
DMRT	**5.96**	**6.22**	**6.38**	**6.50**	**6.59**

Some researchers prefer the S-N-K procedure over the DMR test because they are more confident that the differences described actually exist.

Step 5: As in DMR test, compare the ranked means in all possible combinations. Beginning with the largest mean each variety mean is compared to the smallest mean using the appropriate critical value (S-N-K). For example, the largest mean (Var B) and the smallest mean (Var A) are 6 steps apart in the ranked order therefore the right critical value for comparing them would be 8.29. The mean difference between these two varieties is 22.15 which is higher than the S-N-K critical value therefore we can conclude that these two means are significantly different at P=0.01. Similarly when comparing the second largest mean (Var E) with the smallest mean (Var A) we would use the critical value of 7.95 because these two means are 5 steps apart in the ranked order. The results of mean comparisons in all possible combinations using the appropriate S-N-K values are summarised below:

Step 6 We can now summarise our results from the above comparisons as:

There are no significant differences between varietal means of B, E and C however they are significantly different from D, F and A.

There is no significant difference between the varietal means of D and F, there is also no significant difference between the varietal means of F and A, therefore, variety F falls within the grouping range of both variety D and A. However, variety D is significantly different from variety A.

This is usually presented in the following format:

Variety B 69.90^{a}
Variety E 68.88^{a}
Variety C 66.83^{a}
Variety D 57.93^{b}
Variety F 52.33^{bc}
Variety A 47.75^{c}

Note: Superscripts a,b and c are the grouping ranges within which the varietal mean values are not significantly different at P≤0.01.

Although we got the same result, S-N-K test is more conservative and powerful than DMR test because each of the mean differences were tested against a comparatively higher critical value.

How to present the results of Multiple Range Tests in the comparative table for publication in the Plant Varieties Journal:

For presenting in the journal we have to calculate the sample standard deviation from the original data for each varieties. σ_{n-1} button on a scientific calculator will give you the values for standard deviation. Once these values are obtained they can be presented as:

Comparison	Mean Difference	Steps apart	S-N-K Value	Conclusion
B - A	69.90 - 47.75 = 22.15	6	8.29	significantly different
E - A	68.88 - 47.75 = 21.13	5	7.95	significantly different
C - A	66.83 - 47.75 = 19.08	4	7.50	significantly different
D - A	57.93 - 47.75 = 10.18	3	6.92	significantly different
F - A	52.33 - 47.75 = 4.58	2	5.96	not significantly different
B - F	69.90 - 52.33 = 17.57	5	7.95	significantly different
E - F	68.88 - 52.33 = 16.55	4	7.50	significantly different
C - F	66.83 - 52.33 = 14.50	3	6.92	significantly different
D - F	57.93 - 52.33 = 5.60	2	5.96	not significantly different
B - D	69.90 - 57.93 = 11.97	4	7.50	significantly different
E - D	68.88 - 57.93 = 10.95	3	6.92	significantly different
C - D	66.83 - 57.93 = 8.90	2	5.96	significantly different
B - C	69.90 - 66.83 = 3.07	3	6.92	not significantly different
E - C	68.88 - 66.83 = 2.05	2	5.96	not significantly different
B - E	69.90 - 68.88 = 1.02	2	5.96	not significantly different

Table 3

	Variety A	Variety B	*Variety C	*Variety D	*Variety E	*Variety F
LEAF LENGTH (mm) LSD (P≤0.01) = 5.24						
mean	47.75c	69.90a	66.83a	57.93b	68.88a	52.33bc
std deviation	1.91	1.17	2.72	4.11	4.21	3.03

Mean values followed by the same letter are not significantly different at P≤ 0.01 according to either DMR test or S-N-K test.

Note: We suggest to give the LSD value in the table so that an 'eye ball' comparison of the data can be made. For calculating LSD refer to the article published in the Appendix 5 of *Plant Varieties Journal* Vol. 9 No.2. LSD values are only valid when comparing the means which are only 2 steps apart in the ranked order.

There are many statistical softwares currently available in the market which could be used for multiple range tests.

Glossary:
df = Degrees of freedom
Dp = Shortest significant range
MS = Mean square
MSE = Mean square of Error
r_p = Duncan's multiple range values
Rep = Replication
s_r = Studentised range values
SS = Sum of squares
s_x = Standard error of mean
Var = Variety

APPENDIX 6

Values for Duncan's Multiple Range Test (r_p) at p = 0.01
the rank order of means

df	2	3	4	5	6	7	8	9	10
2	14.040	14.040	14.040	14.040	14.040	14.040	14.040	14.040	14.040
3	8.261	8.321	8.321	8.321	8.321	8.321	8.321	8.321	8.321
4	6.512	6.677	6.740	6.756	6.756	6.756	6.756	6.756	6.756
5	5.702	5.893	5.989	6.040	6.065	6.074	6.074	6.074	6.074
6	5.243	5.439	5.549	5.614	5.655	5.680	5.694	5.701	5.703
7	4.949	5.145	5.260	5.334	5.383	5.416	5.439	5.454	5.464
8	4.746	4.939	5.057	5.135	5.189	5.227	5.256	5.276	5.291
9	4.596	4.787	4.906	4.986	5.043	5.060	5.118	5.142	5.160
10	4.482	4.671	4.790	4.871	4.931	4.975	5.010	5.037	5.058
11	4.392	4.579	4.697	4.780	4.841	4.887	4.924	4.952	4.975
12	4.320	4.504	4.622	4.706	4.767	4.815	4.852	4.883	4.907
13	4.260	4.442	4.560	4.644	4.706	4.755	4.793	4.824	4.850
14	4.210	4.391	4.508	4.591	4.654	4.704	4.743	4.775	4.802
15	4.168	4.347	4.463	4.547	4.610	4.660	4.700	4.733	4.760
16	4.131	4.309	4.425	4.509	4.572	4.622	4.663	4.696	4.724
17	4.099	4.275	4.391	4.475	4.539	4.589	4.630	4.664	4.693
18	4.071	4.246	4.362	4.445	4.509	4.560	4.601	4.635	4.664
19	4.046	4.220	4.335	4.419	4.483	4.534	4.575	4.610	4.639
20	4.024	4.197	4.312	4.395	4.459	4.510	4.552	4.587	4.617
24	3.956	4.126	4.239	4.322	4.386	4.437	4.480	4.516	4.546
30	3.889	4.056	4.168	4.250	4.314	4.366	4.409	4.445	4.477
40	3.825	3.988	4.098	4.180	4.244	4.296	4.339	4.376	4.408
60	3.762	3.922	4.031	4.111	4.174	4.226	4.270	4.307	4.340
120	3.702	3.858	3.965	4.044	4.107	4.158	4.202	4.239	4.272
∞	3.643	3.796	3.900	3.978	4.040	4.091	4.135	4.172	4.205

APPENDIX 7

Studentised Range Values (S_r) at p = 0.01
the rank order of means

df	2	3	4	5	6	7	8	9	10
1	90.03	135.00	164.30	185.60	202.20	215.80	227.20	237.00	245.60
2	14.04	19.02	22.29	24.72	26.63	28.20	29.53	30.68	31.69
3	8.26	10.62	12.17	13.33	14.24	15.00	15.64	16.20	16.69
4	6.51	8.12	9.17	9.96	10.58	11.10	11.55	11.93	12.27
5	5.70	6.98	7.80	8.42	8.91	9.32	9.67	9.97	10.24
6	5.24	6.33	7.03	7.56	7.97	8.32	8.61	8.87	9.10
7	4.95	5.92	6.54	7.01	7.37	7.68	7.94	8.17	8.37
8	4.75	5.64	6.20	6.62	6.96	7.24	7.47	7.68	7.86
9	4.60	5.43	5.96	6.35	6.66	6.91	7.13	7.33	7.49
10	4.48	5.27	5.77	6.14	6.43	6.67	6.87	7.05	7.21
11	4.39	5.15	5.62	5.97	6.25	6.48	6.67	6.84	6.99
12	4.32	5.05	5.50	5.84	6.10	6.32	6.51	6.67	6.81
13	4.26	4.96	5.40	5.73	5.98	6.19	6.37	6.53	6.67
14	4.21	4.89	5.32	5.63	5.88	6.08	6.26	6.41	6.54
15	4.17	4.84	5.25	5.56	5.80	5.99	6.16	6.31	6.44
16	4.13	4.79	5.19	5.49	5.72	5.92	6.08	6.22	6.35
17	4.10	4.74	5.14	5.43	5.66	5.85	6.01	6.15	6.27
18	4.07	4.70	5.09	5.38	5.60	5.79	5.94	6.08	6.20
19	4.05	4.67	5.05	5.33	5.55	5.73	5.89	6.02	6.14
20	4.02	4.64	5.02	5.29	5.51	5.69	5.84	5.97	6.09
24	3.96	4.55	4.91	5.17	5.37	5.54	5.69	5.81	5.92
30	3.89	4.45	4.80	5.05	5.24	5.40	5.54	5.65	5.76
40	3.82	4.37	4.70	4.93	5.11	5.26	5.39	5.50	5.60
60	3.76	4.28	4.59	4.82	4.99	5.13	5.25	5.36	5.45
120	3.70	4.20	4.50	4.71	4.87	5.01	5.12	5.21	5.30
inf	3.64	4.12	4.40	4.60	4.76	4.88	4.99	5.08	5.16

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